KOMATSU

Parts Manual

L-1350-2302

Introduction

1 Structural Components

2 Power Unit Components

3 Generator

4 Instrument Panel Components

5 Electric Control Components

6 Drive Motor

7 Driver Assembly

8 Hydraulic and Air Operated Components

9 Miscellaneous

SECTION OR GROUP TITLE
HOW TO ORDER PARTS
ABBREVIATIONS

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HOW TO ORDER PARTS

This illustrated parts catalog is a ready means of identifying parts, assemblies and structures of Komatsu manufactured equipment.

The intention of this book is to supplement information in the Sevice Manual of this machine.

All parts manufactured by Komatsu, Longview, Texas, combine engineering research and experience with quality workmanship and precision inspection.

Buy Komatsu Parts-they fit better, work better, and chances of costly breakdowns are less.

Komatsu has made every effort to make this manual as accurate as possible based on the information available at the time of publication and printing.

Continuous improvement and advancement of product design may cause changes to machines which may not have been included in this publication.

Komatsu reserves the right to make changes and improvements at any time.

To ensure the most current information, please use the Komatsu On-Line Parts Catalog Database or contact your dealer representative.

This illustrated Parts Catalog is now designed primarily for electronic viewing.

It is best viewed from the DVD or the Komatsu On-Line Parts Catalog Database.

In its printed paper version some items in the illustrations may appear small and the reference numbers may be difficult to read.

In a case where a number or view is unreadable you will need to view it electronically and use the zoom feature.

HOW TO LOCATE PARTS

Machine components may be located in this book by the following method:

Refer to the Table of Contents on Page 1 and determine the section in which the desired components appear.

To the right of the desired component will be a number. This number will have a decimal point (i.e., 1.1).

The number to the left of the decimal point designates the section under which the desired component will be found.

The first number to the right of the decimal point designates the page number of the desired component in that section.

Parts may be readily located by referring to the respective illustration.

Each illustration has a reference number in the lower left-hand corner.

This number is referenced on the applicable parts list following the illustration.

Each part is numerically identified to correspond with the parts list.

Locate the part and refer to the corresponding number in the parts list for the part number.

The quantity column shows the number of parts needed for one unit unless specifically noted.

REF (Reference) in the quantity column indicates the item listed is not part of the assembly.

The item referenced may be part of another group or assembly.

The description will apply; however, the part number may not match the actual part used.

The part is described in detail in the description area.

Indented parts descriptions apply to the part or assembly under which they are indented.

Many of the parts for factory-installed optional components are found in Section 9 of the Parts Catalog, which is titled "MISCELLANEOUS".

It is essential to verify the optional equipment on the machine and check the parts lists in Section 9 prior to ordering parts.

Should there be questions or need for additional information concerning parts for factory-installed options, contact the Komatsu Parts Sales Department before placing an order.

When ordering parts from the factory or distributor, observance of the following procedure will assist the Parts Order Department in filling the order quickly and accurately:

(1) Always give the model and serial number of the machine for which parts are being ordered.

(2) Always give part numbers and name of parts to be shipped as listed on the parts pages.

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ABBREVIATIONS

ABBREVIATION	DESCRIPTION
#	NUMBER OR POUND
2POS	2 POSITION
A	AMP
AC	ALTERNATING CURRENT
A/C	AIR CONDITIONING
ADJ.	ADJUSTABLE
AL.	ALUMINUM
ALT	ALTERNATOR
AMB.	AMBIENT
APPROX.	APPROXIMATE
AR	AS REQUIRED
ASSY.	ASSEMBLY
AWG	AMERICAN WIRE GAUGE
BARFLAT	FLAT METAL BAR
BATT.	BATTERY
BLK.	BLOCK
BRG.	BEARING
BRK.	BRAKE
BUNA N	DESCRIPTION NOT DEFINED
C	CENTIGRADE
CAD.	CADIUM
CAP.	CAPACITOR
CART	CARTRIDGE
CA-WT	CABLE WATERTIGHT
CCW	COUNTER CLOCKWISE
C.E.	COMMUTATOR END
C.F.M.	CUBIC FEET PER MINUTE
CHGING	CHARGING
CONV.	CONVERTER
CS	COUNTERSUNK
CSK.	COUNTERSUNK
CV	DESCRIPTION NOT DEFINED
DC	DIRECT CURRENT
DE	DRIVE END
deg.	DEGREE
DIA.	DIAMETER
DIN	DESCRIPTION NOT DEFINED
DPDT	DOUBLE POLE, DOUBLE THROW
DR.	DRIVER
DWG.	DRAWING
E-STOP	EMERGENCY STOP
EA.	EACH
ENG.	ENGINE
EXH.	EXHAUST
EXT.	EXTERNAL
F	FAHRENHEIT
F.H.	FLAT HEAD
FJ	FEMALE J.I.C. (HYDRAULIC FITTING)
FREQ.	FREQUENCY
FT.	FOOT
FTG	FITTING
FO	FEMALE O-RING
FOPS	FALLING OBJECT PROTECTION STRUCTURE
FP	FEMALE PIPE
GEN.	GENERATOR
GB	GIGABYTE
GL.	GALLON
GPM	GALLONS PER MINUTE
GR.	GRADE
GRN/YEL	GREEN/YELLOW

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ABBREVIATIONS

ABBREVIATION	DESCRIPTION
HD.	HEAD
HP	HORSE POWER
HEX	HEXAGONAL
HEL	HELICAL
HID	HIGH INTENSITY DISCHARGE
HMI	DESCRIPTION NOT DEFINED
HYD.	HYDRAULIC
I.D.	INSIDE DIMENSION
IN.	INCHES
INS.	INSULATED
Km	KILOMETERS
LED	LIGHT EMITTING DIODE
LB.	POUND
LBS	POUNDS
L.F.	LEFT FRONT
LG	LONG
L.H.	LEFT HAND
L.R.	LEFT REAR
LRG.	LARGE
LVCC	LOW VOLTAGE CONTROL CABINET
M	METER
MM	MILLIMETER
M.P.H.	MILES PER HOUR
MAG.	MAGNETIC
MAN	MANUAL
MAX.	MAXIMUM
MF	DESCRIPTION NOT DEFINED
MIN.	MINIMUM OR MINUTE
MO	MALE O-RING
MMO	MILLIMETER O-RING
MOM	MONENTARY
MOV	METAL OXIDE VARISTOR
MJ	MALE J.I.C. (HYDRAULIC FITTING)
MP	MALE PIPE
N.C.	NORMALLY CLOSED
NC	NATIONAL COARSE
NEG.	NEGATIVE
NF	NATIONAL FINE
NO.	NUMBER
N.O.	NORMALLY OPEN
NDE	NON-DRIVE END
NPT	NATIONAL PIPE THREAD
N.P.N.	NO PART NUMBER
NS	NOT SHOWN
NSS	NOT SOLD SEPARATELY
NYL	NYLON
O.D.	OUTSIDE DIMENSION
OZ.	OUNCE
P.E.	PINION END
P.H.	PAN HEAD
P/N	PART NUMBER
POS.	POSITIVE
POT.	POTENTIOMETER
PRESS.	PRESSURE
PSI	POUNDS PER SQUARE INCH
PT.	POINT
PVP	DESCRIPTION NOT DEFINED
PVB	DESCRIPTION NOT DEFINED
PVBS	DESCRIPTION NOT DEFINED
PVM	DESCRIPTION NOT DEFINED

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ABBREVIATIONS

ABBREVIATION	DESCRIPTION
PVE/PVEH	DESCRIPTION NOT DEFINED
BVS	DESCRIPTION NOT DEFINED
PVAS	DESCRIPTION NOT DEFINED
PVC	DESCRIPTION NOT DEFINED
QUAD	QUADRANGLE
QTY.	QUANTITY
RPM	REVOLUTIONS PER MINUTE
RAD.	RADIATOR
RD.	ROUND
RECT.	RECTIFIER
REF	REFERENCE
RES	RESISTANT
RET.	RETAINER
R.F.	RIGHT FRONT
RFI	DESCRIPTION NOT DEFINED
R.H.	RIGHT HAND
RR	RIGHT REAR
ROPS	ROLL OVER PROTECTION STRUCTURE
RPT	ROTOR POSITION TRANSDUCER
RTD	RESISTANCE TEMPERATURE DETECTOR
R.R.	RIGHT REAR
S.H.	SOCKET HEAD
S.S.	STAINLESS STEEL
SEC.	SECONDARY
SECT.	SECTION
SF	SPLIT FLANGE
SHRK CLR	SHRINK CLEAR
SKT.	SOCKET
SM.	SMALL
SOC HD	SOCKET HEAD
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
SQ.	SQUARE
SR	SWITCHED RELUCTANCE
ST.	STREET
STD.	STANDARD
STR.	STRUCTURE
SW.	SWITCH
SWV	SWIVEL
T	TAPER OR TOOTH
TACH.	TACHOMETER
TEMP.	TEMPERATURE
TERM.	TERMINAL
THD.	THREAD
TNDM.	TANDEM
T/M	TRACTION MOTOR
TRF.	TRANSFORMER
UNC	UNIFIED NATIONAL COARSE
UNF	UNIFIED NATIONAL FINE
UNINS.	UNINSULATED
V	VOLT
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VR	VOLTAGE REGULATOR
VITON	DESCRIPTION NOT DEFINED
W	WATT
W/	WITH
W/O	WITHOUT
WD	WIDE
WP	WEATHER PROOF

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ABBREVIATION	DESCRIPTION

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L-1350-2302 PARTS MANUAL
Structural Components

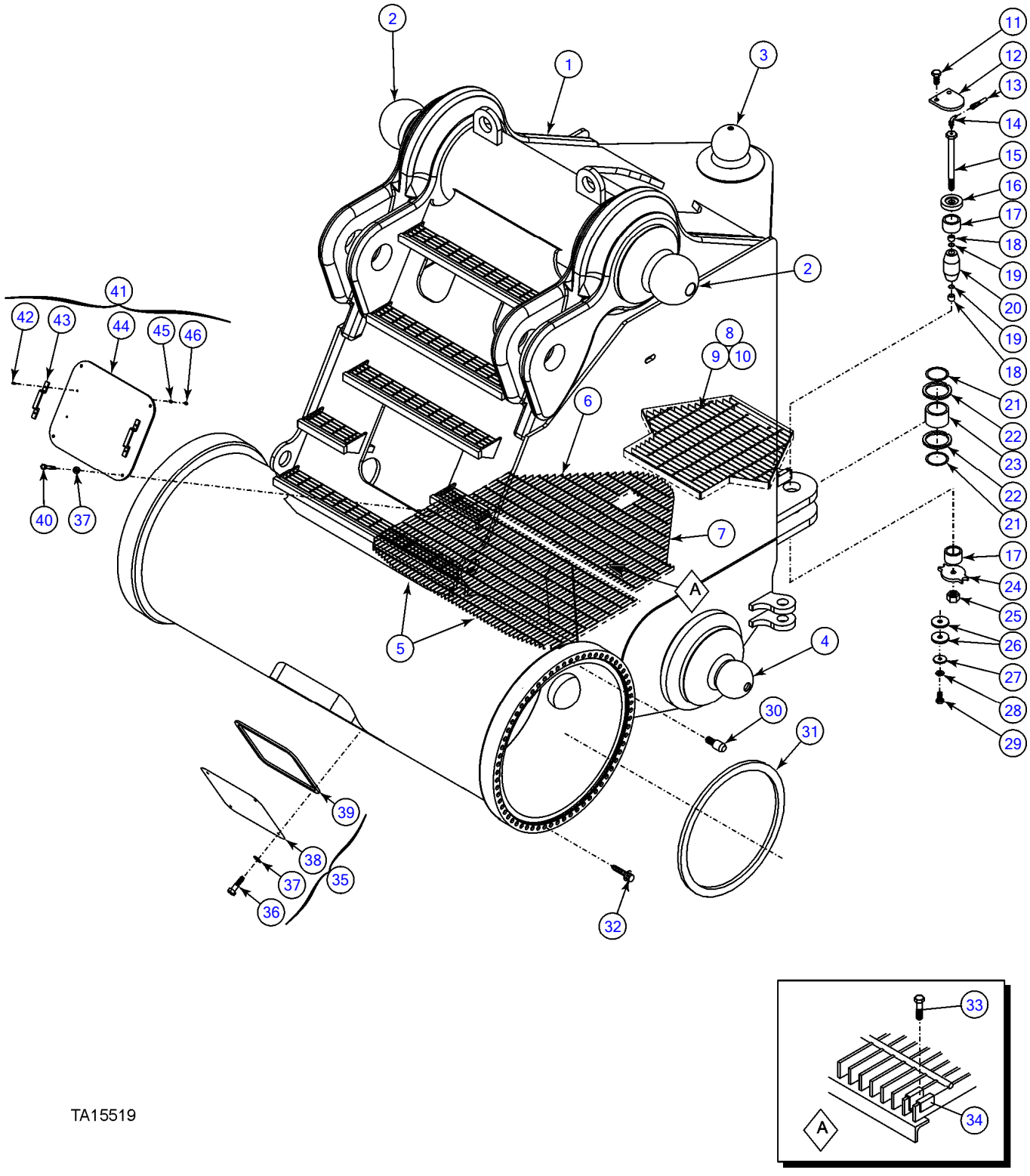
SECTION OR GROUP TITLE
FRONT FRAME AND AXLE GROUP
REAR FRAME GROUP
LIFTARM AND LINKAGE GROUP
SHEET METAL GROUP
HOOD GROUP
COWL/TRANSITION GROUP
REAR AXLE GROUP
LADDER AND CATWALK GROUP
LADDER ASSEMBLY
CATWALK ANTISLIP GROUP - FRONT FRAME
CATWALK ANTISLIP GROUP - REAR FRAME
CATWALK ANTISLIP GROUP - POWERSTEP LADDER
OPERATOR'S SEAT AND CONTROLS
CAB ASSEMBLY
WHEEL ASSEMBLY
MIRROR/LIGHT BAR ASSEMBLY
MIRROR ASSEMBLY AND MOUNTING GROUP
LIGHT BAR HARNESS ASSEMBLY
IDENTIFICATION AND SAFETY LABELS GROUP
CAB SAFETY LABEL GROUP
IDENTIFICATION DECAL GROUP
PAINT GROUP
OPERATOR'S SEAT ASSEMBLY
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FRONT FRAME AND AXLE GROUP



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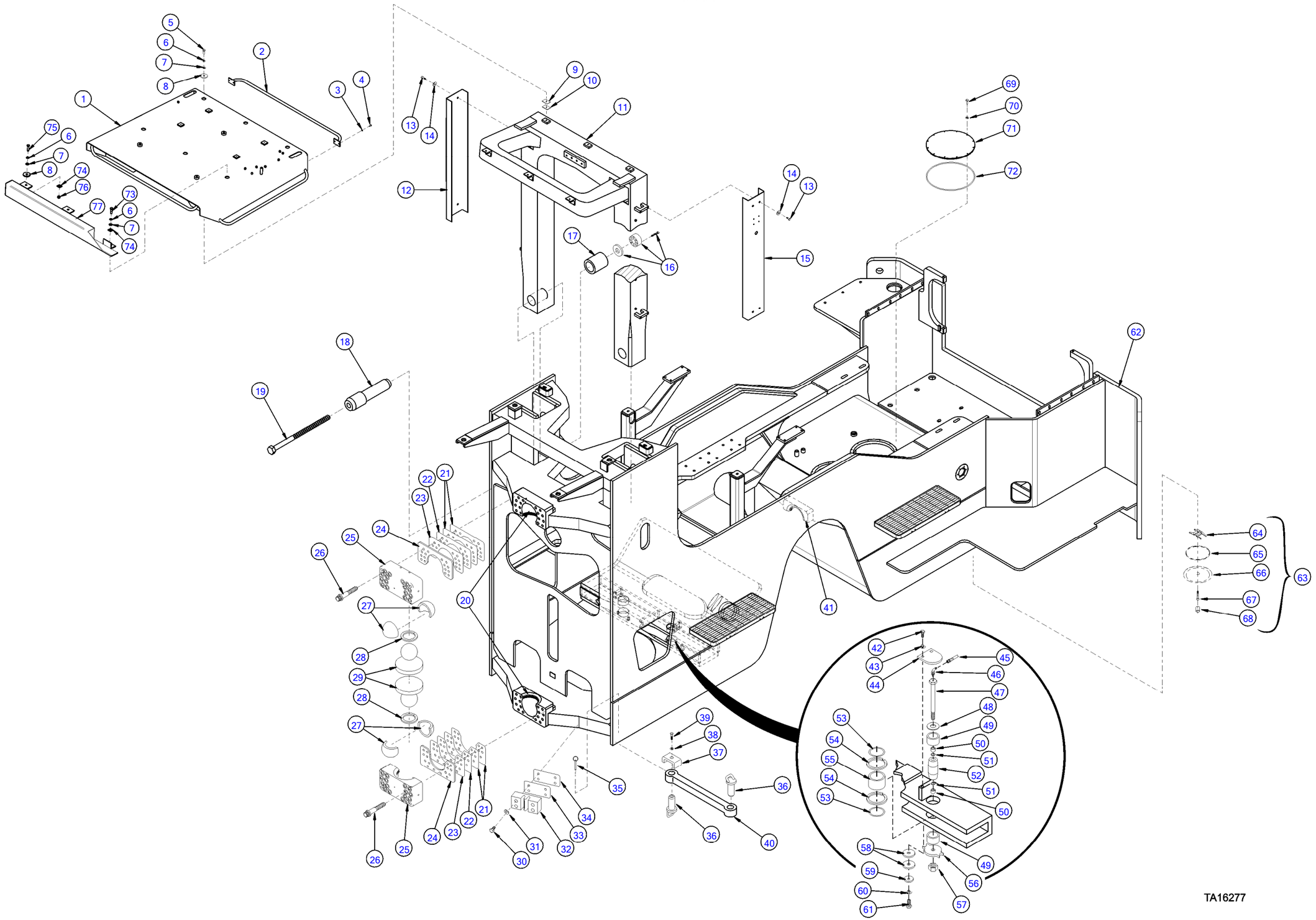
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4269725		FRONT FRAME AND AXLE GROUP		10/26/16
1	R4269727	1	FRAME STRUCTURE, FRONT		
	N.P.N.	REF	· PLUG ASSEMBLY, 3" - LIFTARM PIVOT AND HOIST CYLINDER PIVOT BALL (PAGE 9.3-9.3A)		3/7/12
	N.P.N.	REF	· FRONT FRAME PIVOT BALLS DO NOT HAVE PLUGS		3/7/12
2	R4168403	2	· BALL AND BASE, LIFTARM PIVOT - 12", WELDED ON (SEE NOTE)		3/7/12
3	R4168156	2	· BALL AND BASE, STEERING PIVOT - 9", WELDED ON (SEE NOTE)		3/7/12
4	R4168403	2	· BALL AND BASE, HOIST CYLINDER PIVOT - 12", WELDED ON (SEE NOTE)		3/7/12
5	R4261270	2	GRATING STRUCTURE, FRONT		
6	R4272876	1	GRATING STRUCTURE, R.H. REAR		
7	R4272877	1	GRATING STRUCTURE, L.H. REAR		
8	R4274089	1	GRATING STRUCTURE, CENTER - FRONT FRAME		
9	R0801180	4	BOLT, 1/2"-13 X 1"		
10	R0032778	4	LOCKWASHER, 1/2"		
11	R0027595	4	BOLT, 5/8"-11 X 1-1/4"		
12	R4121124	2	CAP, PIN LUG		
13	N.P.N.	REF	HOSE ASSEMBLY (PAGE 9.3-9.3A)		
14	R4116444	REF	ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
15	R4182760	2	BOLT, 1-1/4"-7 X 12"		
16	R4182716	2	FLATWASHER, 1-1/4" I.D.		
17	R4161299	4	BUSHING, SAWCUT		
18	R4182719	4	SLEEVE, RETAINER - O-RING		
19	R4231149	4	O-RING, 1" - POLYURETHANE		
20	R4182718	2	PIN, 4" X 8"		
21	R4093488	REF	RING, RETAINING - INTERNAL		
22	R4161298	4	O-RING, 5/8" X 5" I.D. - POLYURETHANE		
23	R6944893	REF	BUSHING, SELF-ALIGNING - 4"		
24	R4182717	2	PLATE, CAPTURE		
25	R4016020	2	LOCKNUT, 1-1/4"-7 - NYLON		
26	R0021553	4	FLATWASHER, 1" I.D. X 2-1/2" O.D.		
27	R4102626	4	FLATWASHER, 9/16" I.D. X 2-1/4" O.D. X 1/4"		
28	R0801181	4	LOCKWASHER, 1/2"		
29	R0801180	4	BOLT, 1/2"-13 X 1"		
30	R4182952	2	DOWEL PIN, 1-1/4"-7 - DRIVER TO AXLE HOUSING		
31	R4252443	2	SEAL, AXLE TO MOTOR		
32	R4152660	REF	CAPSCREW, 1"-8 X 4"	128	
33	R4228426	12	SCREW, 1/4"-20 X 2"		
34	R4218378	12	FASTENER, GRATING		
35	R4272716	1	COVER GROUP, AXLE ACCESS		
36	R4009753	4	· BOLT, 1/2"-13 X 1-1/2"		
37	R4062661	8	· FLATWASHER, 1/2" I.D. X 1" O.D. X 1/32" - CONICAL		10/26/16
38	R4240850	1	· COVER ASSEMBLY, AXLE ACCESS		
39	R4060985	1	· · SEAL, SPONGE - 5/8" X 5/8"		
	R4030823	AR	· · SEALANT/ADHESIVE, SILICONE - 10.7-OZ., CLEAR		
40	R4009753	4	BOLT, 1/2"-13 X 1-1/2"		
	R4272823	1	COVER ASSEMBLY, ACCESS - MAIN VALVE		
41	R4272504	1	· COVER ASSEMBLY, ACCESS - MAIN VALVE		
42	R4010357	4	· · BOLT, 1/4"-28 X 1"		
43	R0983066	2	· · HANDLE		
44	R4272506	1	· · COVER STRUCTURE		
45	R0213584	4	· · LOCKWASHER, 1/4"		
46	R4012936	4	· · NUT, 1/4"-28		
NS	R4272564	1	CATWALK STRUCTURE/LIGHT POLE MOUNT, FRONT - L.H.		3/7/12

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4272565	1	CATWALK STRUCTURE/LIGHT POLE MOUNT, FRONT - R.H.		3/7/12
	R4266303	REF	CODE SHEET, FRONT AXLE		3/7/12
			NOTE:		
			· FACTORY WELDING INSTALLATION PROCEDURES MUST BE FOLLOWED FOR INSTALLATION OF		
			· THESE BALLS AND FAILURE TO DO SO COULD DAMAGE THE MACHINE AND VOID ANY REMAINING		
			· WARRANTY. THESE PROCEDURES ARE PUBLISHED. PLEASE CONTACT YOUR LETOURNEAU		
			· PRODUCT SUPPORT REPRESENTATIVE IF YOU HAVE ANY QUESTION OR NEED ASSISTANCE.		

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REAR FRAME GROUP



TA16277

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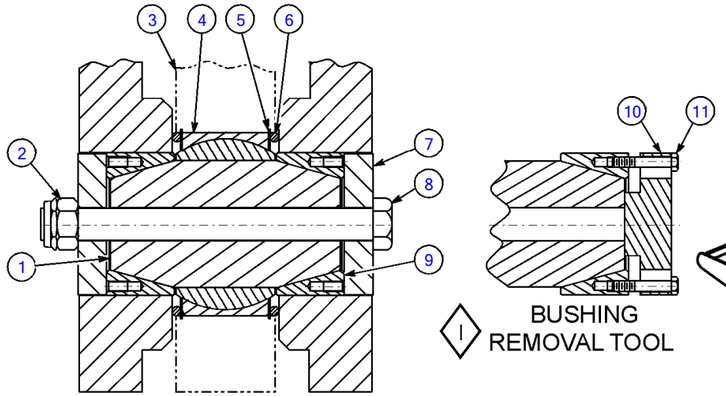
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4285663		REAR FRAME GROUP (-0)		
1	R4254322	1	· FOPS ASSEMBLY		
2	R4254321	1	· · HANDRAIL STRUCTURE, FOPS		
3	R0753123	4	· · LOCKWASHER, 3/8"		
4	R0810970	4	· · BOLT, 3/8"-16 X 3/4"		
5	R0021629	3	· BOLT, 5/8"-11 X 1-3/4" (BACK)		
	R0021631	3	· BOLT, 5/8"-11 X 2-1/4" (FRONT)		
6	R0021541	12	· LOCKWASHER, 5/8"		
7	R4010925	12	· FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
8	R0711602	9	· FLATWASHER, 3/4" I.D. X 3" O.D. X 1/4"		
9	R4217155	AR	· SHIM, 1/8" X 2" X 3" (BACK)		
	R4217156	AR	· SHIM, 1/4" X 2" X 3" (BACK)		
10	R4217157	AR	· SHIM, 1/8" X 3" X 3" (FRONT)		
	R4217158	AR	· SHIM, 1/4" X 3" X 3" (FRONT)		
11	R4285588	1	· ROLL BAR STRUCTURE		
12	R4274044	1	· COVER STRUCTURE, ROPS - R.H.		
13	R0801180	8	· BOLT, 1/2"-13 X 1"		
14	R0801181	8	· LOCKWASHER, 1/2"		
15	R4274042	1	· COVER STRUCTURE, ROPS - L.H.		
	R4233214	2	· PIN GROUP, ROLLBAR		
16	R4188899	2	· · NUT, TORQUE - 2-1/4"-4-1/4		
17	R4238090	2	· · PLATE STRUCTURE, CAPTURE		
18	R4188865	2	· · PIN, ROLL BAR		
19	R4188898	2	· · BOLT, 2-1/4"-4-1/4 X 27-3/8"		
20	R4161199	2	· SOCKET, BALL - 9", 16 BOLT (WELDED INTO REAR FRAME FOR STEERING BALLS) (SEE NOTE)		
21	R4104791	REF	· SHIM, .007"	4	
22	R4133263	REF	· SHIM, .018"	2	
23	R4116772	REF	· SHIM, .030"	2	
24	R4133262	2	· SPACER, 1/4"		
25	R4255188	2	· CAP, BALL - 9", 16 BOLT		
26	R4243968	32	· CAPSCREW, 1-1/4"-7 X 8-1/2"		
27	R4119458	4	· LINER, BALL - HALF, 9"		
28	R4267936	2	· SEAL, BALL - 9" - NITRILE		
29	R4168156	REF	· BALL AND BASE, STEERING PIVOT - 9", WELDED ON (SEE NOTE) (PAGE 1.1-1.1A)	2	
30	R4009522	8	· BOLT, 3/4"-10 X 1-1/4"		
31	R0021542	8	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
32	R4246314	2	· STOP BLOCK		
33	R4168171	AR	· SPACER, 1/4" X 12" X 7"		
34	R4227535	AR	· SHIM, 1/2" X 7" X 12"		
	R4168170	AR	· SPACER, 1/8" X 12" X 7"	2	
35	R4272818	1	· PIN, SELF LOCKING - 3/8" X 7"		
36	R4035334	2	· PIN STRUCTURE, SAFETY LINK		
37	R4075806	1	· RETAINER, PIN		
38	R0801181	1	· LOCKWASHER, 1/2"		
39	R0827222	1	· BOLT, 1/2"-13 X 2"		
40	R4240996	1	· SAFETY LINK		
41	R4119454	2	· SOCKET, BALL - 9", 8 BOLT (WELDED INTO REAR FRAME FOR AXLE PIVOT) (SEE NOTE)		
42	R0027595	4	· BOLT, 5/8"-11 X 1-1/4"		
43	R0021541	4	· LOCKWASHER, 5/8"		
44	R4121124	2	· CAP, PIN LUG		
45	N.P.N.	REF	· HOSE ASSEMBLY (PAGE 9.3-9.3A)		
46	R4116444	REF	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL	2	
47	R4182760	2	· BOLT, 1-1/4"-7 X 12"		
48	R4182716	2	· FLATWASHER, 1-1/4" I.D.		
49	R4161299	4	· BUSHING, SAWCUT		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
50	R4182719	4	· SLEEVE, RETAINER - O-RING		
51	R4231149	4	· O-RING, 1" - POLYURETHANE		
52	R4182718	2	· PIN, 4" X 8"		
53	R4093488	REF	· RING, RETAINING - INTERNAL		
54	R4161298	4	· O-RING, 5/8" X 5" I.D. - POLYURETHANE		
55	R6944893	REF	· BUSHING, SELF-ALIGNING - 4"	2	
56	R4182717	2	· PLATE, CAPTURE		
57	R4016020	2	· LOCKNUT, 1-1/4"-7 - NYLON		
58	R0021553	4	· FLATWASHER, 1" I.D. X 2-1/2" O.D.		
59	R4102626	4	· FLATWASHER, 9/16" I.D. X 2-1/4" O.D. X 1/4"		
60	R0801181	4	· LOCKWASHER, 1/2"		
61	R0801180	4	· BOLT, 1/2"-13 X 1"		
62	R4285606	1	· FRAME STRUCTURE, REAR		
63	R4102664	4	· COVER ASSEMBLY, ACCESS - FUEL TANK		
64	R4005299	4	· · CLAMP STRUCTURE		
65	R0828984	4	· · O-RING, 6-1/8" I.D. - BUNA N		
66	R4005298	4	· · COVER STRUCTURE		
67	R4001871	4	· · CAPSCREW, 1/2"-13 X 1-3/4"		
68	R0782042	4	· · PLUG, PIPE - 3/4", HEX CSK.		
	R4274155	3	· COVER GROUP, FUEL TANK		
69	R0808476	36	· · BOLT, 3/8"-16 X 1-1/4"		
70	R0753123	36	· · LOCKWASHER, 3/8"		
71	R4274154	3	· · COVER PLATE, 20-5/8" X 1/2" - ALUMINUM		
72	R4248986	3	· · O-RING, 18-7/16" I.D. - BUNA N		
73	R0021631	3	· BOLT, 5/8"-11 X 2-1/4"		
74	R4274661	3	· WASHER, SQUARE		
75	R0021632	3	· BOLT, 5/8"-11 X 2-1/2"		
76	R0537156	3	· LOCKNUT, 5/8"-11 - NYLON		
77	R4274655	1	· MOUNT STRUCTURE, LIGHT BAR		
			NOTE:		
			· FACTORY WELDING INSTALLATION PROCEDURES MUST BE FOLLOWED FOR INSTALLATION OF		
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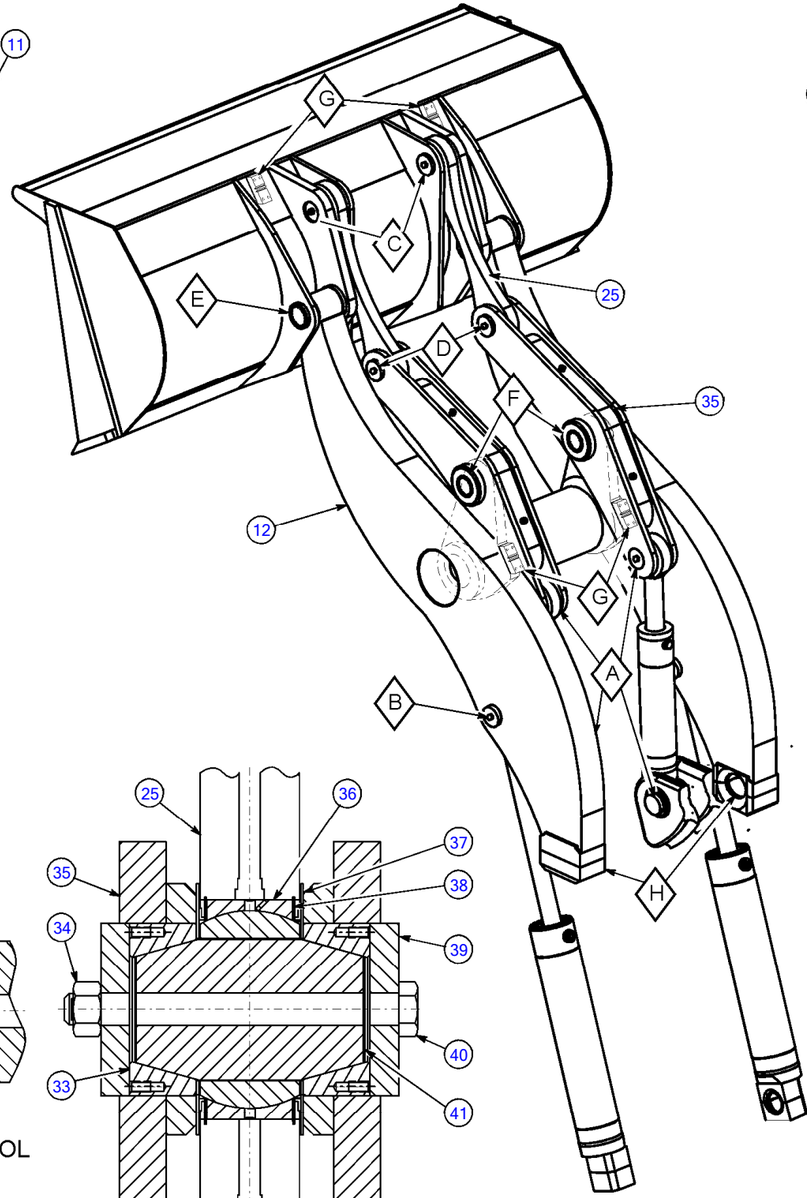
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LIFTARM AND LINKAGE GROUP

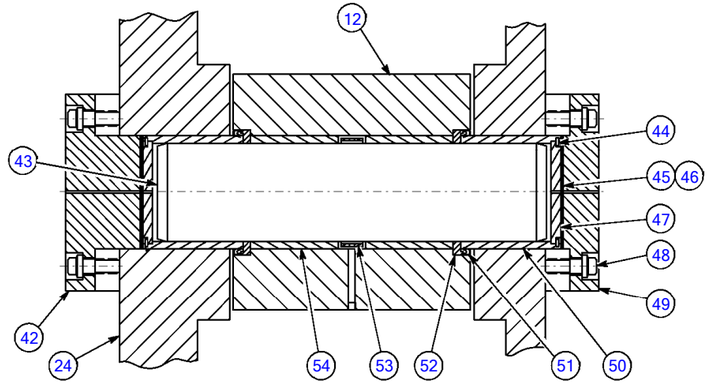


A BUCKET CYLINDER

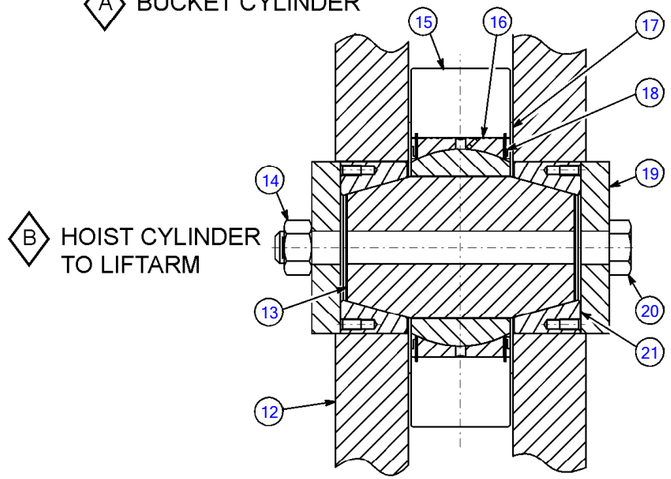
I BUSHING REMOVAL TOOL



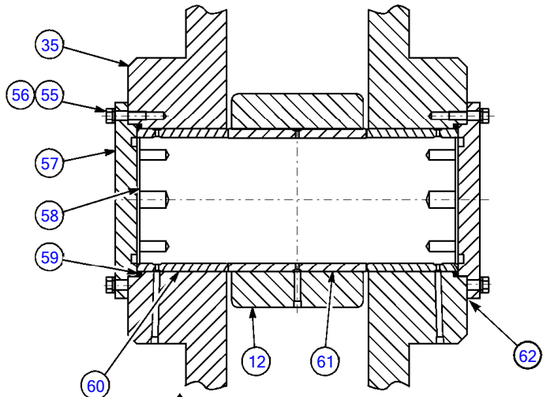
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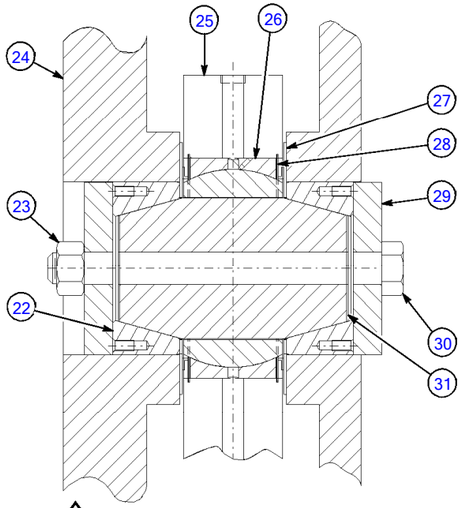
E BUCKET PIVOT



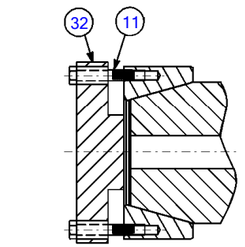
B HOIST CYLINDER TO LIFTARM



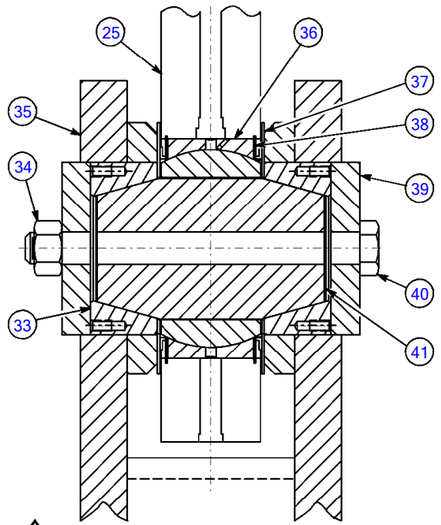
F BELLCRANK PIVOT



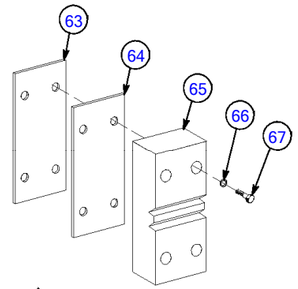
C LEVEL LINK TO BUCKET



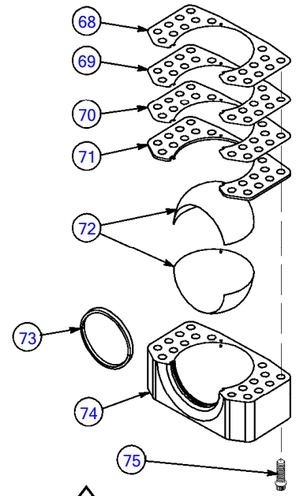
I BUSHING REMOVAL TOOL



D LEVEL LINK TO BELLCRANK



G STOP BLOCKS



H LIFTARM PIVOT

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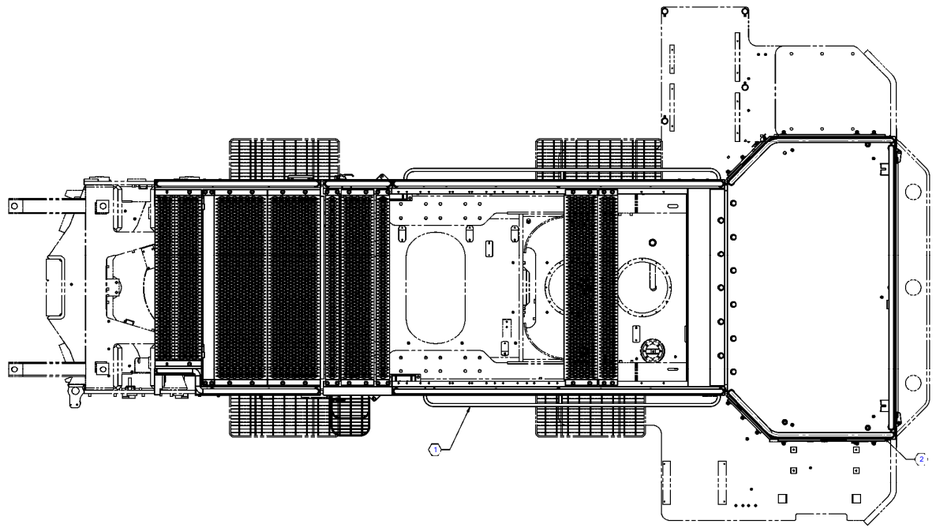
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271186		LIFTARM AND LINKAGE GROUP - HIGH LIFT		9/26/18
1	R4168138	4	· PIN, 6" X 11"		
2	R4016021	4	· LOCKNUT, 1-1/2"-6 - NYLON		
3	N.P.N.	REF	· BUCKET CYLINDER ASSEMBLY (PAGE 8.15-8.15A)		
4	R6964139	REF	· BUSHING, SELF-ALIGNING - 6" I.D. X 8-3/4" O.D.	4	
5	R4093490	REF	· RING, RETAINING - INTERNAL - 9" O.D.	8	
6	N.P.N.		· NOT USED		7/13/16
7	R4168136	8	· FLATWASHER, 1-1/2" X 6-1/2" X 1-1/4"		
8	R4168160	4	· BOLT, 1-1/2"-6 X 16"		
9	R4168137	8	· BUSHING, SAWCUT - 6-3/4" O.D.		
			·		
10	R4168318	REF	· TOOL, BUSHING REMOVAL	1	
11	R0808598	REF	· BOLT, 1/2"-13 X 2-3/4"	4	
			·		
12	R4267687	1	· LIFT ARM STRUCTURE - HIGH LIFT		
13	R4236578	2	· PIN, 6-3/4" X 11"		
14	R4016021	2	· LOCKNUT, 1-1/2"-6 - NYLON		
15	N.P.N.	REF	· HOIST CYLINDER (PAGE 8.14-8.14A)		
16	R4231131	REF	· BUSHING, SELF-ALIGNING - 6-3/4" I.D. X 10-1/2" O.D.	2	
17	N.P.N.		· NOT USED		7/13/16
18	R4231208	REF	· RING, RETAINING - INTERNAL - 10-13/16" O.D.	4	
19	R4273621	4	· FLATWASHER, 1-1/4" X 8" X 1-9/16"		7/13/16
20	R4168160	2	· BOLT, 1-1/2"-6 X 16"		
21	R4236575	4	· BUSHING, SAWCUT - 8-1/4" O.D.		
			·		
22	R4236575	4	· BUSHING, SAWCUT - 8-1/4" O.D.		
23	R4016021	2	· LOCKNUT, 1-1/2"-6 - NYLON		
24	N.P.N.	REF	· BUCKET STRUCTURE (PAGE 1.15)		
25	R4273789	2	· LEVEL LINK ASSEMBLY		12/3/13
	R4273788	2	· · LEVEL LINK STRUCTURE		12/3/13
	R0086881	2	· · PLUG, PIPE - 1", SQ. CSK.		
26	R4231131	2	· BUSHING, SELF-ALIGNING - 6-3/4" I.D. X 10-1/2" O.D.		
27	N.P.N.		· NOT USED		7/13/16
28	R4231208	4	· RING, RETAINING - INTERNAL - 10-13/16" O.D.		
29	R4273621	4	· FLATWASHER, 1-1/4" X 8" X 1-9/16"		7/13/16
30	R4168160	2	· BOLT, 1-1/2"-6 X 16"		
31	R4236578	2	· PIN, 6-3/4" X 11"		
			·		
32	R4236579	REF	· TOOL, BUSHING REMOVAL - 8-5/8" O.D.	1	
			·		
33	R4236575	4	· BUSHING, SAWCUT - 8-1/4" O.D.		
34	R4016021	2	· LOCKNUT, 1-1/2"-6 - NYLON		
35	R4267688	1	· BELLCRANK STRUCTURE, LEFT HAND		
	R4267695	1	· BELLCRANK STRUCTURE, RIGHT HAND		
36	R4231131	2	· BUSHING, SELF-ALIGNING - 6-3/4" I.D. X 10-1/2" O.D.		
37	N.P.N.		· NOT USED		7/13/16
38	R4231208	4	· RING, RETAINING - INTERNAL - 10-13/16" O.D.		
39	R4273621	4	· FLATWASHER, 1-1/4" X 8" X 1-9/16"		7/13/16
40	R4168160	2	· BOLT, 1-1/2"-6 X 16"		
41	R4236578	2	· PIN, 6-3/4" X 11"		
42	R4215292	2	· CAP, PIN RETAINER - LONG		
43	R4215295	2	· PIN, BUCKET PIVOT		
44	R4082972	4	· RING, RETAINING - INTERNAL - 5-9/16"		
45	R4215293	AR	· SHIM, 1/16"	8	
46	R4215294	AR	· SHIM, 1/32"	16	
47	R4215290	4	· CAP, PIN PULLER		
48	R4001908	32	· CAPSCREW, 3/4"-10 X 1-3/4"		
49	R4215291	2	· CAP, PIN RETAINER - SHORT		

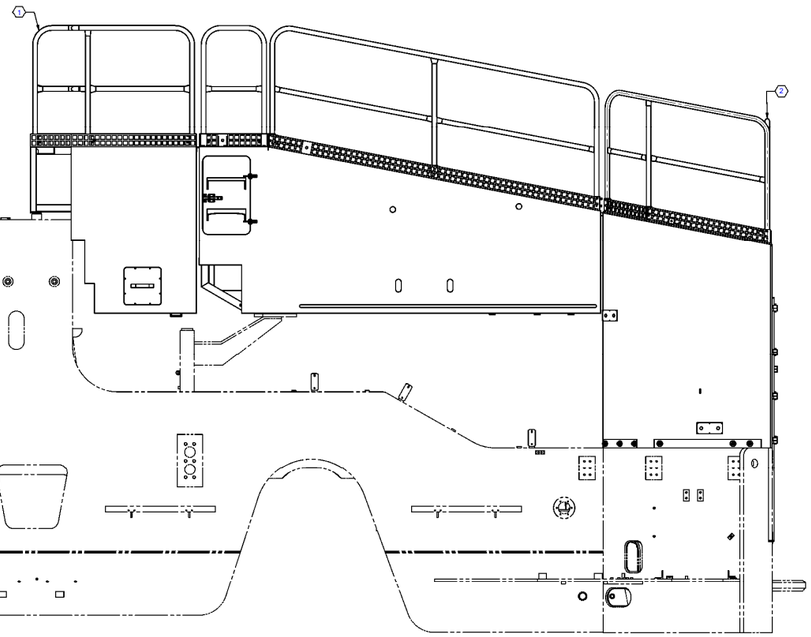
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
50	R4215289	4	· SLEEVE, 5" I.D. X 5-3/4" O.D. X 5-1/8"		
51	R4168233	4	· SEAL, GREASE		
52	R4215287	4	· BUSHING, THRUST		
53	R4168235	2	· SPACER, BUSHING		
54	R4168231	4	· BUSHING, CYLINDRICAL - 5" I.D. X 5-3/4" O.D. X 4-1/2" - BRONZE		
			·		
55	R0824790	32	· BOLT, 1/2"-13 X 1-3/4"		
56	R0801181	32	· LOCKWASHER, 1/2"		
57	R4253647	3	· PLATE, COVER - PIN		
	R4253638	1	· COVER PLATE, LEVEL INDICATOR		
58	R4168123	2	· PIN, 7" X 17-7/8"		
59	R4241777	2	· O-RING, 8-1/4" I.D. - BUNA N		
60	R4168121	4	· BUSHING, CYLINDRICAL - 7" I.D. X 8" O.D. X 5-1/8" - BRONZE		
61	R4168120	2	· SLEEVE, 7" I.D. X 8" O.D. X 7-3/4"		
62	R4241780	AR	· SHIM, .010"	8	
			·		
63	R4168170	AR	· SPACER, 1/8" X 12" X 7"	4	
64	R4168171	AR	· SPACER, 1/4" X 12" X 7"	4	
65	R4246314	4	· STOP BLOCK		
66	R0021542	16	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
67	R4009522	16	· BOLT, 3/4"-10 X 1-1/4"		
			·		
68	R4123772	AR	· SHIM, .007"	2	
69	R4123773	AR	· SHIM, .030"	2	
70	R4133265	AR	· SHIM, .018"	4	
71	R4133264	2	· SPACER, 3/16"		7/29/16
72	R4081645	4	· LINER, BALL - HALF, 12"		
73	R4261580	2	· SEAL, BALL - 12" - NITRILE		
74	R4254334	2	· CAP, BALL - 12", 18 BOLT		
75	R4241671	36	· CAPSCREW, 1-1/4"-7 X 10"		9/26/18
	R4168312	1	PLATE, LOAD - 84,000 LBS		

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SHEET METAL GROUP





ITEM	PART NO.	QTY	DESCRIPTION
2	4291345	1	GP COWL/TRANSITION L1250G3
1	4291320	1	GP HOOD 1250G3

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INTERPRET DIM & TOL PER LEITOURNEAU SPEC 1660.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-5883

DWN		1-26-17
CHK		1-26-17
ENGR		1-26-17
PROD ENGR		
PROJ APPROVAL		
MATL		

JOYGLOBAL

GP SHEETMETAL L1250G3

SIZE E | DO NOT SCALE | DWG NO. 4285667 | REV 01

SCALE 1/16 | WEIGHT 5916.9 lbm | SHEET 1 OF 1

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4285667		SHEET METAL GROUP		
1	R4291320	1	· HOOD GROUP (PAGE 1.5-1.5B)		
2	R4291345	1	· COWL/TRANSITION GROUP (PAGE 1.5-1.5D)		
	R4291878	REF	FIRE CURTAIN ASSEMBLY	1	
	R4291877	REF	· BARRIER, FLUID/FIRE CURTAIN	1	
	R4291876	REF	· SUPPORT STRUCTURE, FIRE CURTAIN	1	
	R4291879	REF	· SUPPORT CLIP, FIRE CURTAIN	1	
	R0808221	REF	· FLATWASHER, 3/8"	19	
	R0808476	REF	· BOLT, 3/8"-16 X 1-1/4"	23	
	R0753123	REF	· LOCKWASHER, 3/8"	23	
	R0812921	REF	· NUT, 3/8"-16	11	
		REF	DRAWING, SHEET METAL GROUP (R428566701)		

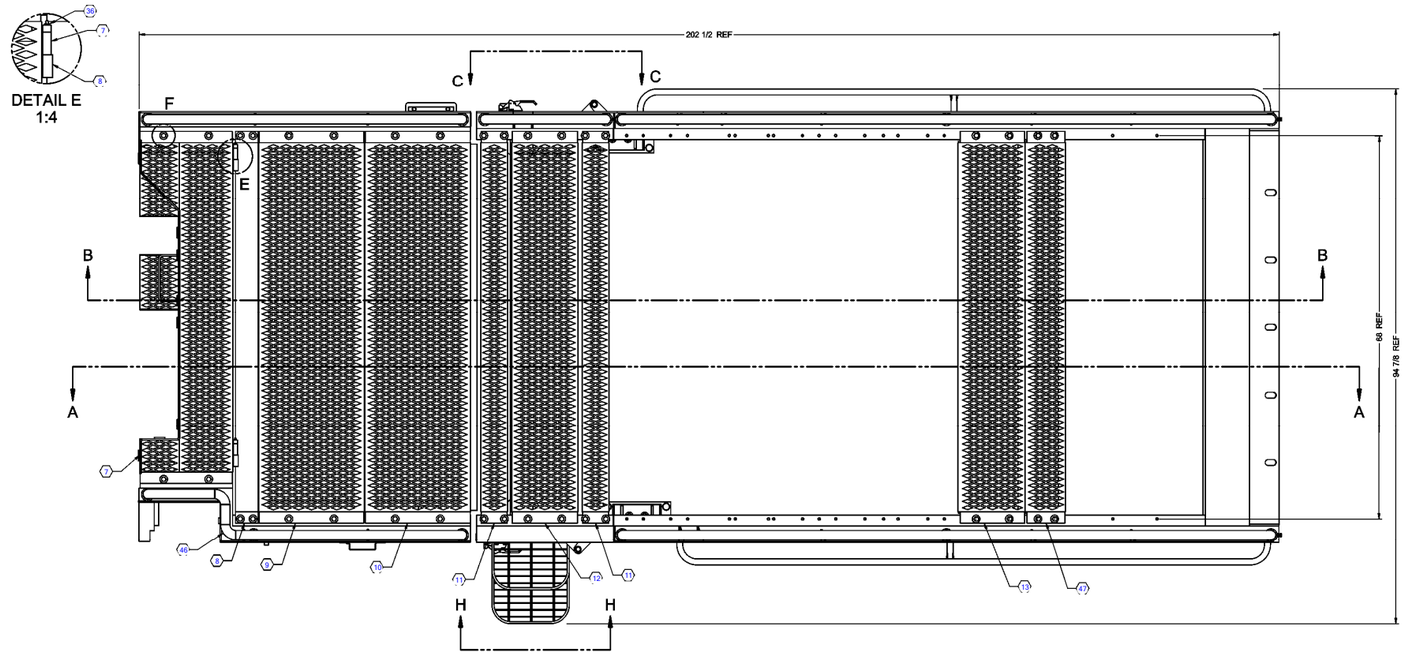
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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HOOD GROUP



ITEM	PART NO.	QTY	DESCRIPTION
52	4286557	1	WASHER FLAT .812 2.000 .265
51	0131167	8	WASHER LOCK SPR, .753 1.29 .23
50	4285243	2	WASH BELL HRD .431 .906 .075
49	4290923	8	WASHER FLAT .813 1.468 .375
48	4293286	2	WASHER FLAT .813 1.468 .177 .656
47	4274906	1	STR GRATING 7 NO COVER
46	4291273	1	STR HANDRAIL LH
45	4223106	3	WASHER .750 HARD CONICAL
44	4269330	1	CHANNEL MOUNT
43	4269976	2	SHIM CHANNEL MOUNT .125
42	4269977	3	SHIM CHANNEL MOUNT .063
41	4257807	1	STR DOOR BLOWER MTR ACCESS
40	4006525	3	BOLT HX .750 2.250 NC G8
39	0021542	8	WASHER LOCK SPR .750 1.27 .19
38	0186619	4	BOLT HX .375 1.13 NC G8 FT
37	4269321	1	PLT MOUNT PAD
36	0020315	2	GREASE FITTING 1/8 NPT
35	0021627	3	NUT .750 NC G8
34	4274143	2	PLT MOUNT OFFSET SHIM .250
33	4274142	2	PLT MOUNT OFFSET SHIM .120
32	0812278	7	BOLT HEX .250 .83 NC G8 FT
31	4010923	1	WASHER FLAT .250 .83 .065
30	0812921	2	NUT HX 0.375-16UNC-2B G8 PL
29	0753123	4	WASHER LOCK SPR .375 .68 .09
28	4009644	2	BOLT HX .375 2.750 NC G8
27	0021646	8	BOLT HX .750 2.60 NC GR8
26	0836038	4	BOLT HX .500 1.250 NF G8 FT
25	4223104	45	WASHER CON .531 1.38 .15 HRD
24	4013750	4	NUT JAM .500 NC
23	4009753	45	BOLT HX .500 1.500 NC G8
22	0810991	8	WASHER FLAT .531 1.062 .121
21	0417597	6	BOLT HEX .250 .500 NC G8 FT
20	0213584	16	WASHER LOCK SPR .25 .49 .06
19	4149602	3	LATCH DRILLED
18	4272595	1	STR DOOR RH L1350 G2
17	4009524	8	BOLT HX .750 1.750 NC G8 FT
16	4272593	1	STR DOOR LH L1350 G2
15	4272529	2	STR HOOD MOUNT G2
14	4269315	2	MOUNT LATTICE
13	4219715	1	STR GRATING HOOD
12	4238149	1	STR GRATING HOOD
11	4273693	2	STR GRATING HOOD
10	4269331	1	STR GRATING
9	4116596	1	STR GRATING
8	4291276	1	STR CROSSMEMBER
7	4291277	1	STR GRATING HOOD/CAB
6	4291319	2	STR HANDRAIL 116.93 HOOD
5	4285624	1	STR HANDRAIL 21.50
4	4286398	1	HANDRAIL HOOD RH FRONT
3	4291341	1	STR SPLIT HOOD L1250 RH FT
2	4291343	1	STR SPLIT HOOD L1250 LH FT
1	4291321	1	STR SPLIT HOOD L1250 REAR

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1600.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATING
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-5887

		MTL
DWN		1-20-17
CHK		1-20-17
ENGR		1-20-17
PROD ENGR		
PROJ APPROVAL		
MATL		

JOYGLOBAL

GP HOOD G3

SIZE E | DO NOT SCALE | DWG NO. 4291320 | REV 04

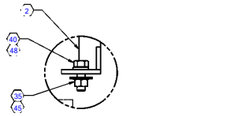
SCALE 1/8 | DATA# 2401.2 Bm | SHEET 1 OF 2

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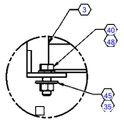
HOOD GROUP

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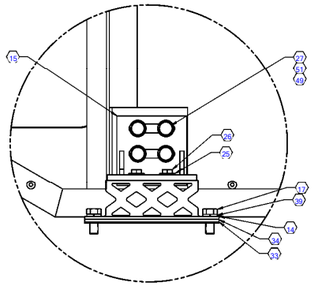
HOOD GROUP



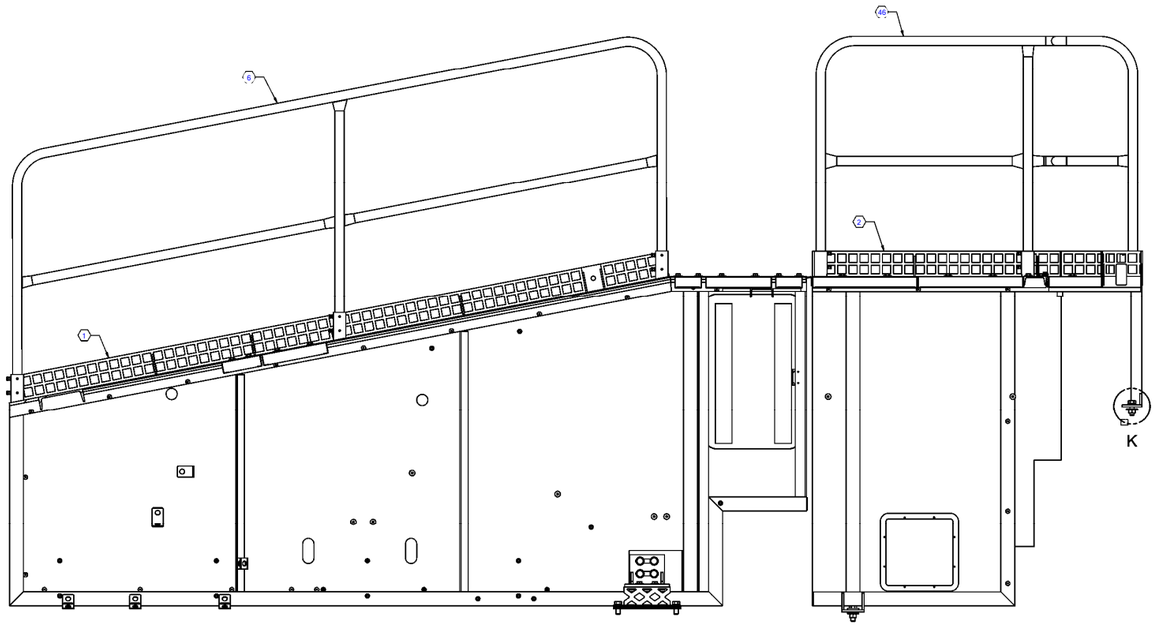
DETAIL K
1:4



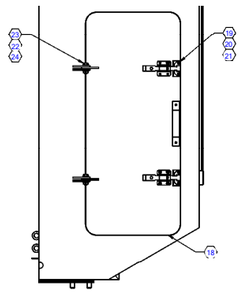
DETAIL L
1:4



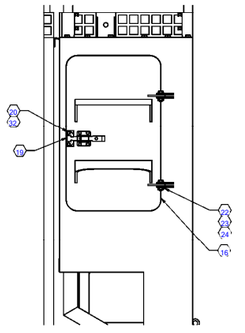
DETAIL M
1:4



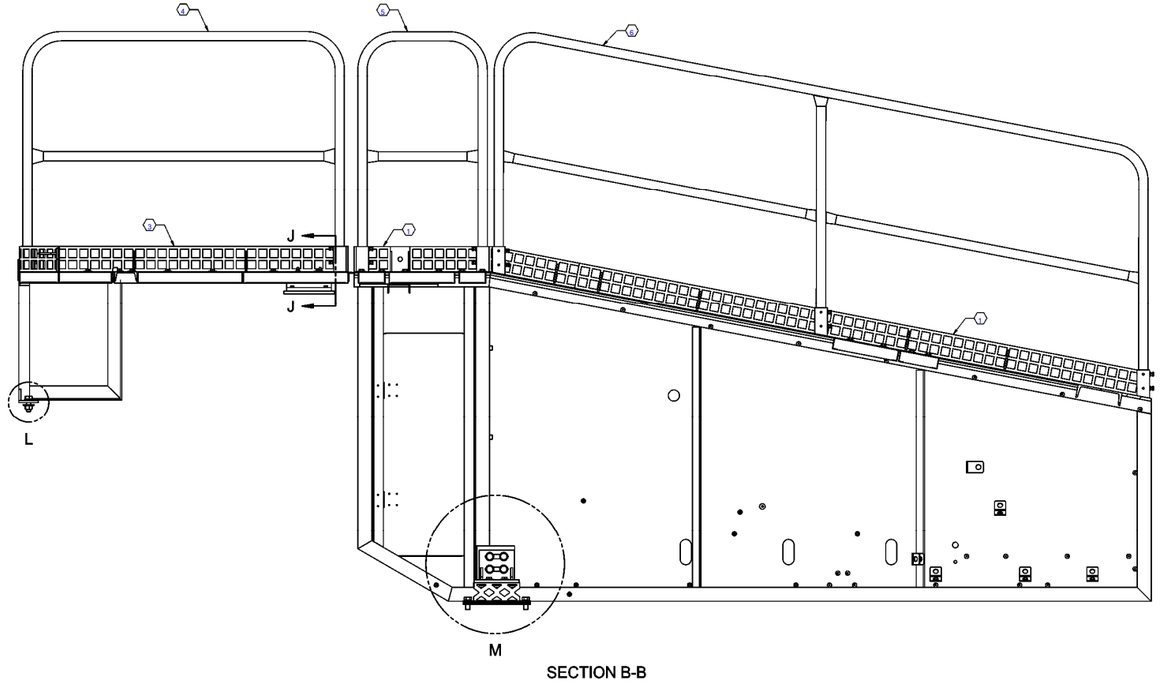
SECTION A-A
ROTATED 180°



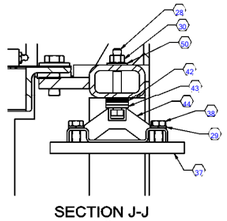
VIEW C-C



VIEW H-H



SECTION B-B



SECTION J-J
1:2

GP HOOD 93		E	DO NOT SCALE	4291320	04
DRAWN dendraws		SCALE 1/8	WT 2401.2 lbm	SHEET 2 OF 2
DRAWN 1-20-17				

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HOOD GROUP

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4291320		HOOD GROUP		
1	R4291321	1	· SPLIT HOOD STRUCTURE, REAR		
2	R4291343	1	· HOOD STRUCTURE, SPLIT - L.H. FRONT		
3	R4291341	1	· HOOD STRUCTURE, SPLIT - R.H. FRONT		
4	R4286398	1	· HANDRAIL STRUCTURE, FRONT		
5	R4285624	1	· HANDRAIL STRUCTURE, 21-1/2"		
6	R4291319	2	· HANDRAIL STRUCTURE, 117"		
7	R4291277	1	· GRATING STRUCTURE, HOOD/CAB		
8	R4291276	1	· CROSSMEMBER STRUCTURE, HOOD		
9	R4116566	1	· GRATING STRUCTURE		
10	R4269331	1	· GRATING STRUCTURE		
11	R4273693	2	· GRATING STRUCTURE, HOOD		
12	R4238149	1	· GRATING STRUCTURE, HOOD		
13	R4219715	1	· GRATING STRUCTURE		
14	R4269315	2	· MOUNT, LATTICE		
15	R4272529	2	· MOUNT STRUCTURE, HOOD		
16	R4272593	1	· DOOR STRUCTURE, L.H.		
17	R4009524	8	· BOLT, 3/4"-10 X 1-3/4"		
18	R4272595	1	· DOOR STRUCTURE, R.H.		
19	R4149602	3	· LATCH ASSEMBLY, DRILLED HANDLE		
20	R0213584	16	· LOCKWASHER, 1/4"		
21	R0417597	6	· BOLT, 1/4"-20 X 1/2"		
22	R0810991	8	· FLATWASHER, 1/2" X 1" X 1/8"		
23	R4009753	45	· BOLT, 1/2"-13 X 1-1/2"		
24	R4013750	4	· JAMNUT, 1/2"-13		
25	R4223104	45	· FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		
26	R0836038	4	· BOLT, 1/2"-13 X 1-1/4"		
27	R0021646	8	· BOLT, 3/4"-10 X 2-1/2"		
28	R4009644	2	· BOLT, 3/8"-16 X 2-3/4"		
29	R0753123	4	· LOCKWASHER, 3/8"		
30	R0812921	2	· NUT, 3/8"-16		
31	R4010923	1	· FLATWASHER, 1/4"		
32	R0812278	7	· BOLT, 1/4"-20 X 5/8"		
33	R4274142	2	· SHIM, MOUNT - 1/8"		
34	R4274143	2	· SHIM, MOUNT - 1/4"		
35	R0021527	3	· NUT, 3/4"-10		
36	R0020315	2	· FITTING, GREASE - 1/8" MP		
37	R4269321	1	· MOUNT PLATE		
38	R0186619	4	· BOLT, 3/8"-16 X 1-1/8"		
39	R0021542	8	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
40	R4009525	3	· BOLT, 3/4"-10 X 2-1/4"		
41	R4257807	1	· DOOR STRUCTURE, BLOWER MOTOR		
42	R4269977	3	· SHIM, .063" - CHANNEL MOUNT		
43	R4269976	2	· SHIM, .125" - CHANNEL MOUNT		
44	R4269330	1	· CHANNEL MOUNT		
45	R4223106	3	· FLATWASHER, 3/4" I.D. X 2" O.D. X 3/16" - CONICAL		
46	R4291273	1	· HANDRAIL STRUCTURE, L.H.		
47	R4274908	1	· GRATING STRUCTURE, HOOD		
48	R4293286	2	· FLATWASHER, 13/16" I.D. X 1-1/2" X 1/8" - CUT		
49	R4290923	8	· FLATWASHER, 13/16" I.D. X 1-1/2" X 3/8"		
50	R4285243	2	· FLATWASHER, 7/16" I.D. X 7/16" O.D. X 1/16" - CONICAL, HARDENED		
51	R0131167	8	· LOCKWASHER, 3/4" - HEAVY		
52	R4286557	1	· FLATWASHER, 13/16" I.D. X 2" X 1/4"		
		REF	DRAWING, HOOD GROUP (R429132004)		

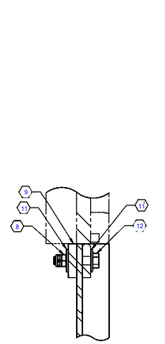
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

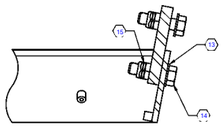
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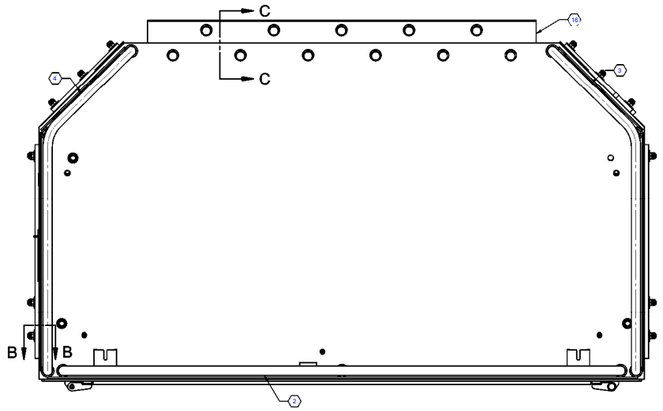
COWL/TRANSITION GROUP

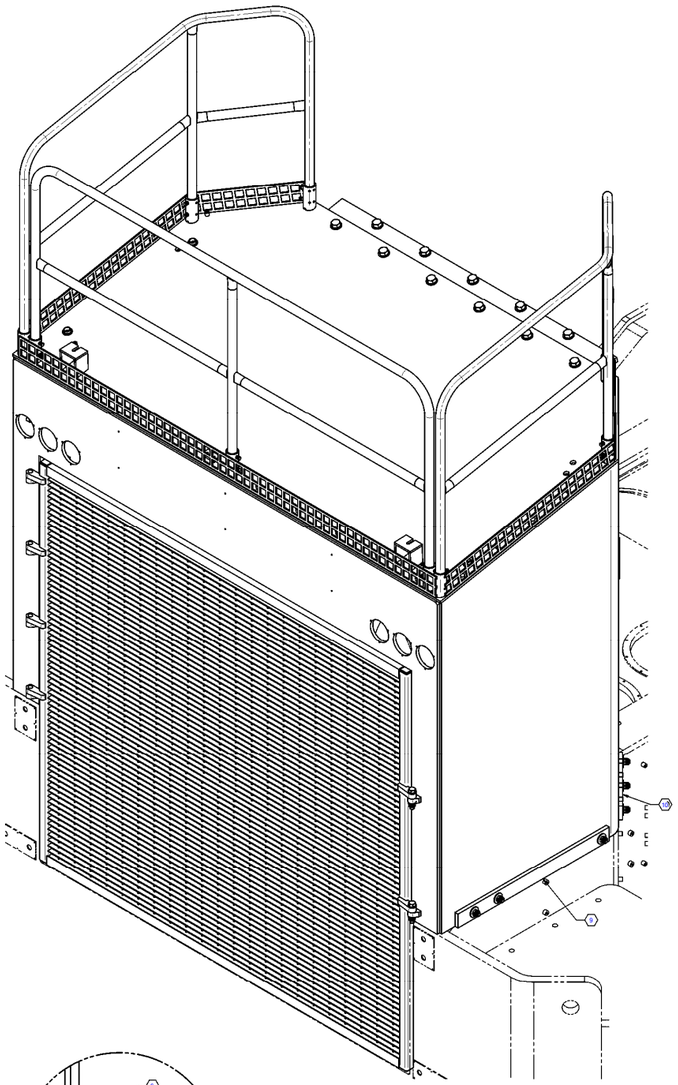


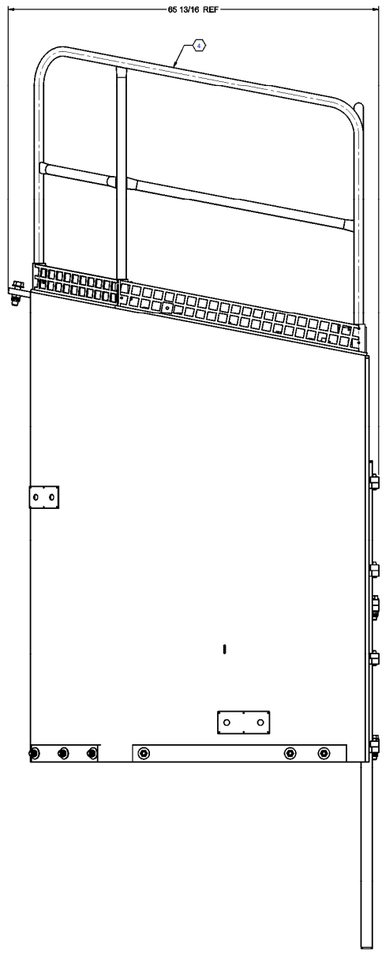
SECTION B-B
1:4

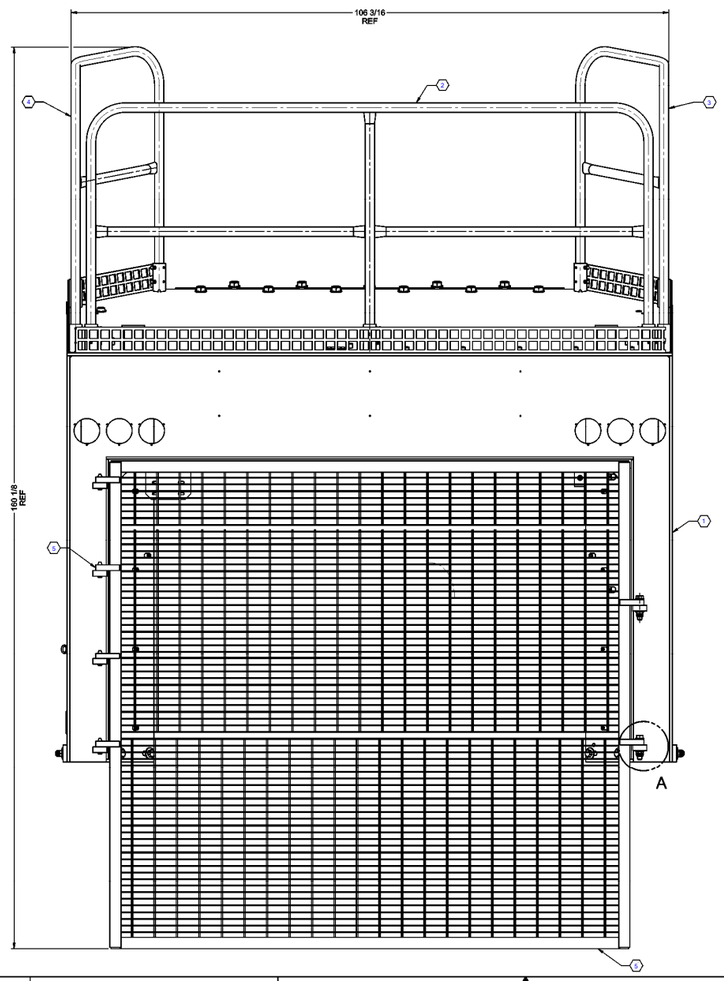


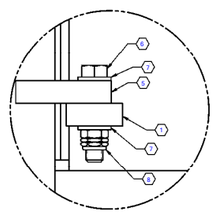
SECTION C-C
1:4











DETAIL A
1:2

ITEM	PART NO.	QTY	DESCRIPTION
16	4287646	1	PLT MOUNT TRANSITION TOP
15	4016019	11	NUT LOCK NYL INS 1.00 NC
14	0021669	11	BOLT HX 1.000 3.500 NC G8
13	4036898	11	WASHER FLAT 1.000 2.00 .13
12	0021650	12	BOLT HX .750 3.500 NC G8
11	4223106	24	WASHER .750 HARD CONICAL
10	4290987	2	PLT CLAMP FRONT COWL
9	4290986	2	PLT CLAMP REAR COWL
8	4016018	14	NUT LOCK NYL INS .750 NC
7	4016046	4	WASHER FLAT .812 1.469 .160
6	0021651	2	BOLT HX .750 3.750 NC G8
5	4182724	1	DOOR STR GRATING REAR COWL
4	4291291	1	STR HANDRAIL LEFT
3	4291296	1	STR HANDRAIL RIGHT
2	4277690	1	STR HANDRAIL 99.00
1	4291346	1	STR TRANS COWL L1250 G3

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 5600.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.010
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-5867

		SIGN.
DWN		1-25-17
CHK		1-25-17
ENGR		1-25-17
PROD ENGR		
PROJ APPROVAL		
MATL		

JOYGLOBAL

GP COWL/TRANSITION L1250G3

SIZE E | DO NOT SCALE | DWG NO. 4291345 | REV 00

SCALE 1/8 | WT 3534.0 lbm | SHEET 1 OF 1

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4291345		COWL/TRANSITION GROUP		
1	R4291346	1	· COWL STRUCTURE, REAR		
2	R4277690	1	· HANDRAIL STRUCTURE, 99"		
3	R4291296	1	· HANDRAIL STRUCTURE, RIGHT		
4	R4291291	1	· HANDRAIL STRUCTURE, LEFT		
5	R4182724	1	· DOOR STRUCTURE, REAR COWL		
6	R0021651	2	· BOLT, 3/4"-10 X 3-3/4"		
7	R4016046	4	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		
8	R4016018	14	· LOCKNUT, 3/4"-10 - NYLON		
9	R4290986	2	· MOUNT BAR, COWL - REAR		
10	R4290987	2	· MOUNT BAR, COWL - FRONT		
11	R4223106	24	· FLATWASHER, 3/4" I.D. X 2" O.D. X 3/16" - CONICAL		
12	R0021650	12	· BOLT, 3/4"-10 X 3-1/2"		
13	R4036898	11	· FLATWASHER, 1"		
14	R0021669	11	· BOLT, 1"-8 X 3-1/2"		
15	R4016019	11	· LOCKNUT, 1"-8 - NYLON		
16	R4267646	1	· MOUNT STRUCTURE, TRANSITION		
		REF	DRAWING, COWL/TRANSITION GROUP (R429134500)		

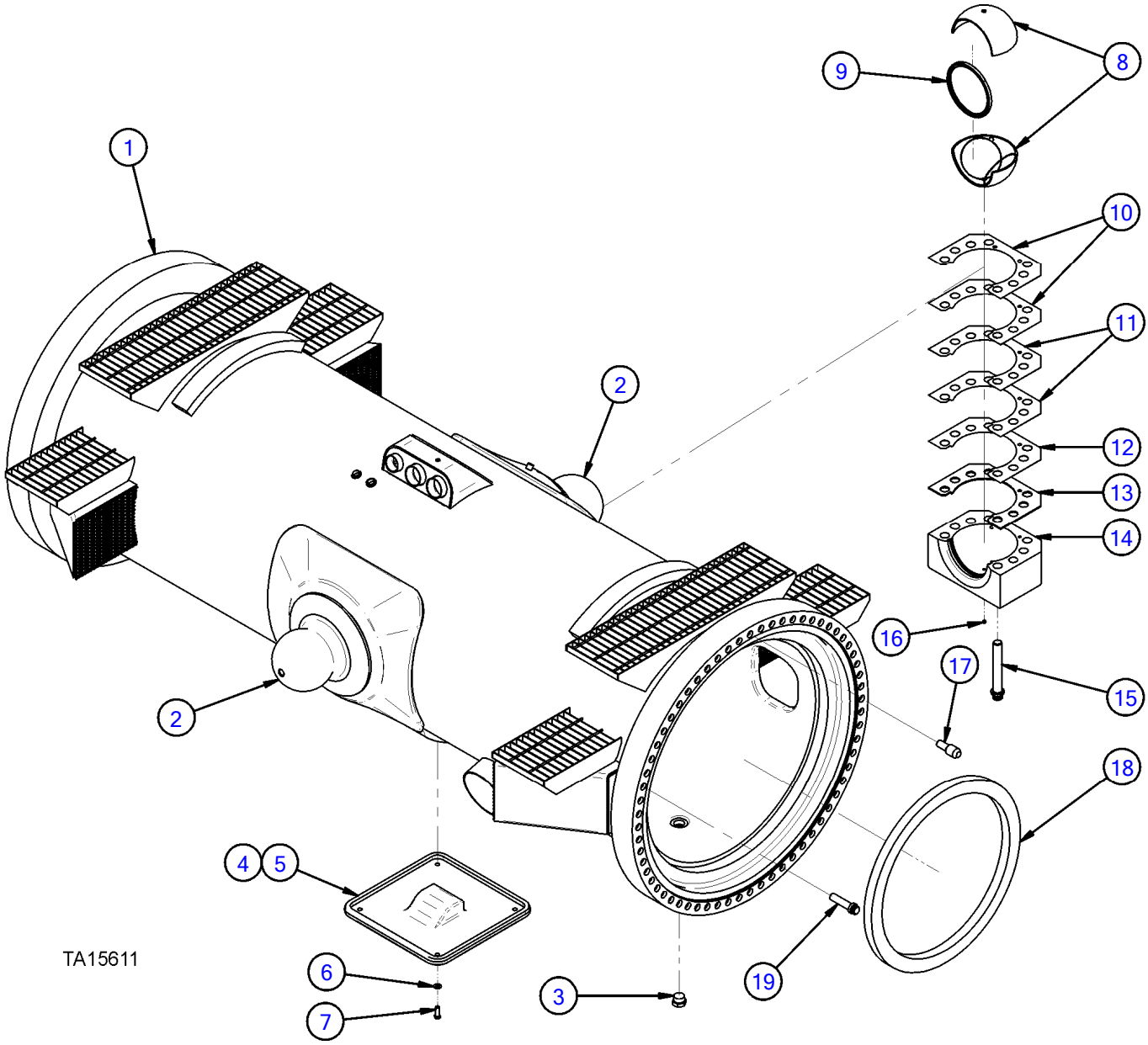
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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REAR AXLE GROUP



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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4285663			REAR AXLE GROUP (-1)		
1	R4269737	1		· AXLE STRUCTURE, REAR		
2	R4168156	2		· · BALL AND BASE, REAR AXLE PIVOT - 9", WELDED ON (SEE NOTE)		
3	R4223348	2		· PLUG, PIPE - 1-1/4", HEX HD.		
4	R4272716	1		· COVER GROUP, AXLE ACCESS		
5	R4240850	1		· · COVER ASSEMBLY, AXLE ACCESS		
	R4060985	7	FT	· · · SEAL, SPONGE - 5/8" X 5/8"		
	R4030823	AR		· · · SEALANT/ADHESIVE, SILICONE - 10.7-OZ., CLEAR		
6	R4062661	4		· · FLATWASHER, 1/2" I.D. X 1" O.D. X 1/32" - CONICAL		
7	R4009753	4		· · BOLT, 1/2"-13 X 1-1/2"		
8	R4119458	4		· LINER, BALL - HALF, 9"		
9	R4267936	2		· SEAL, BALL - 9" - NITRILE		
10	R4103654	AR		· SHIM, .007"		
11	R4133261	AR		· SHIM, .018"		
12	R4116771	AR		· SHIM, .030"		
13	R4133260	AR		· SPACER, 3/16"		
14	R4254630	2		· CAP, BALL - 9", 8 BOLT		
15	R4243968	16		· CAPSCREW, 1-1/4"-7 X 8-1/2"		
16	R0716331	2		· PLUG, PIPE - 1/8", HEX CSK.		
17	R4182952	REF		· DOWEL PIN, 1-1/4"-7 - DRIVER TO AXLE HOUSING	2	
18	R4252443	REF		· SEAL, AXLE TO MOTOR	2	
19	R4152660	REF		· CAPSCREW, 1"-8 X 4"		
				NOTE:		
				· FACTORY WELDING INSTALLATION PROCEDURES MUST BE FOLLOWED FOR INSTALLATION OF		
				· THESE BALLS AND FAILURE TO DO SO COULD DAMAGE THE MACHINE AND VOID ANY REMAINING		
				· WARRANTY. THESE PROCEDURES ARE PUBLISHED. PLEASE CONTACT YOUR JOY GLOBAL		
				· PRODUCT SUPPORT REPRESENTATIVE IF YOU HAVE ANY QUESTION OR NEED ASSISTANCE.		

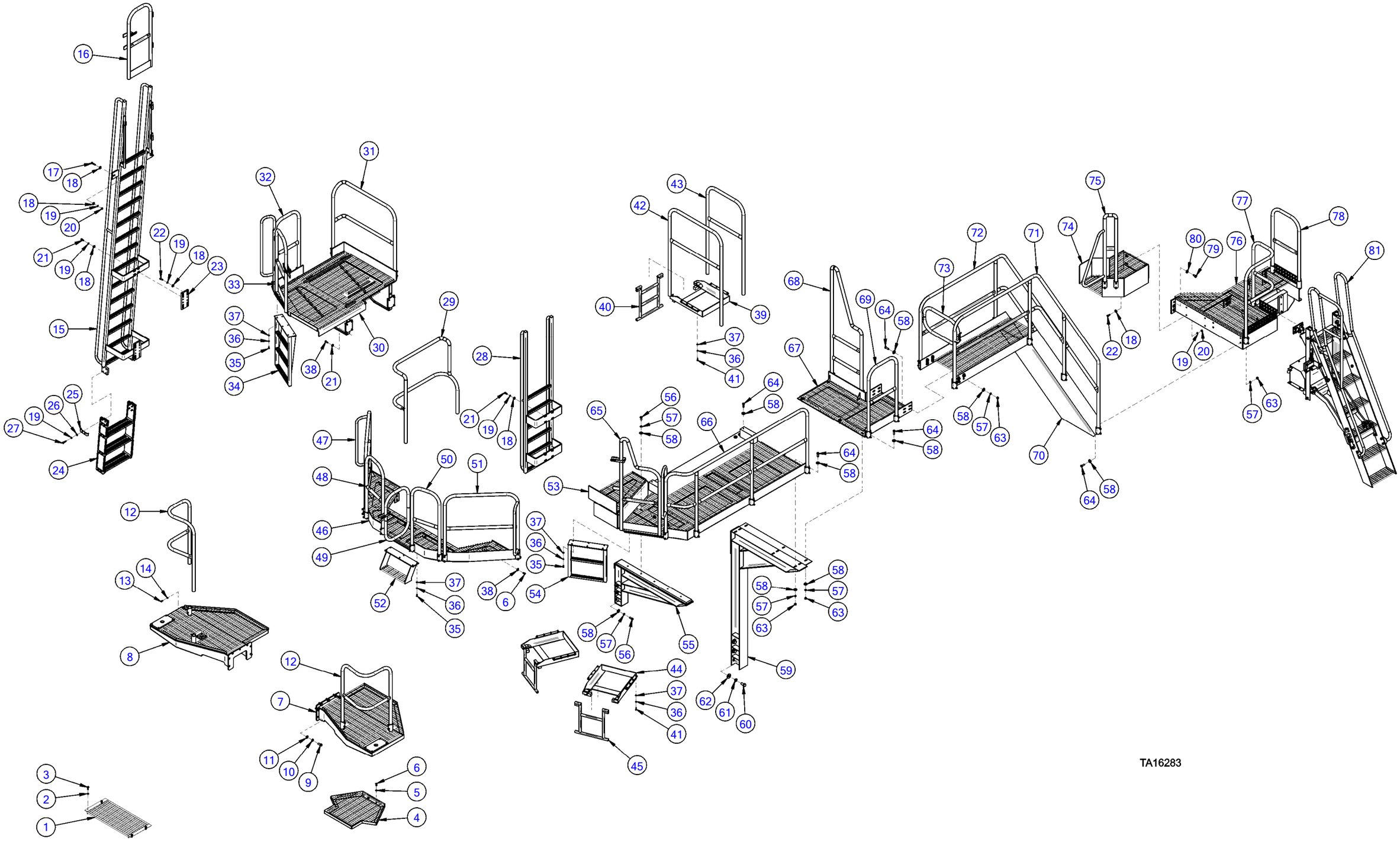
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

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LADDER AND CATWALK GROUP



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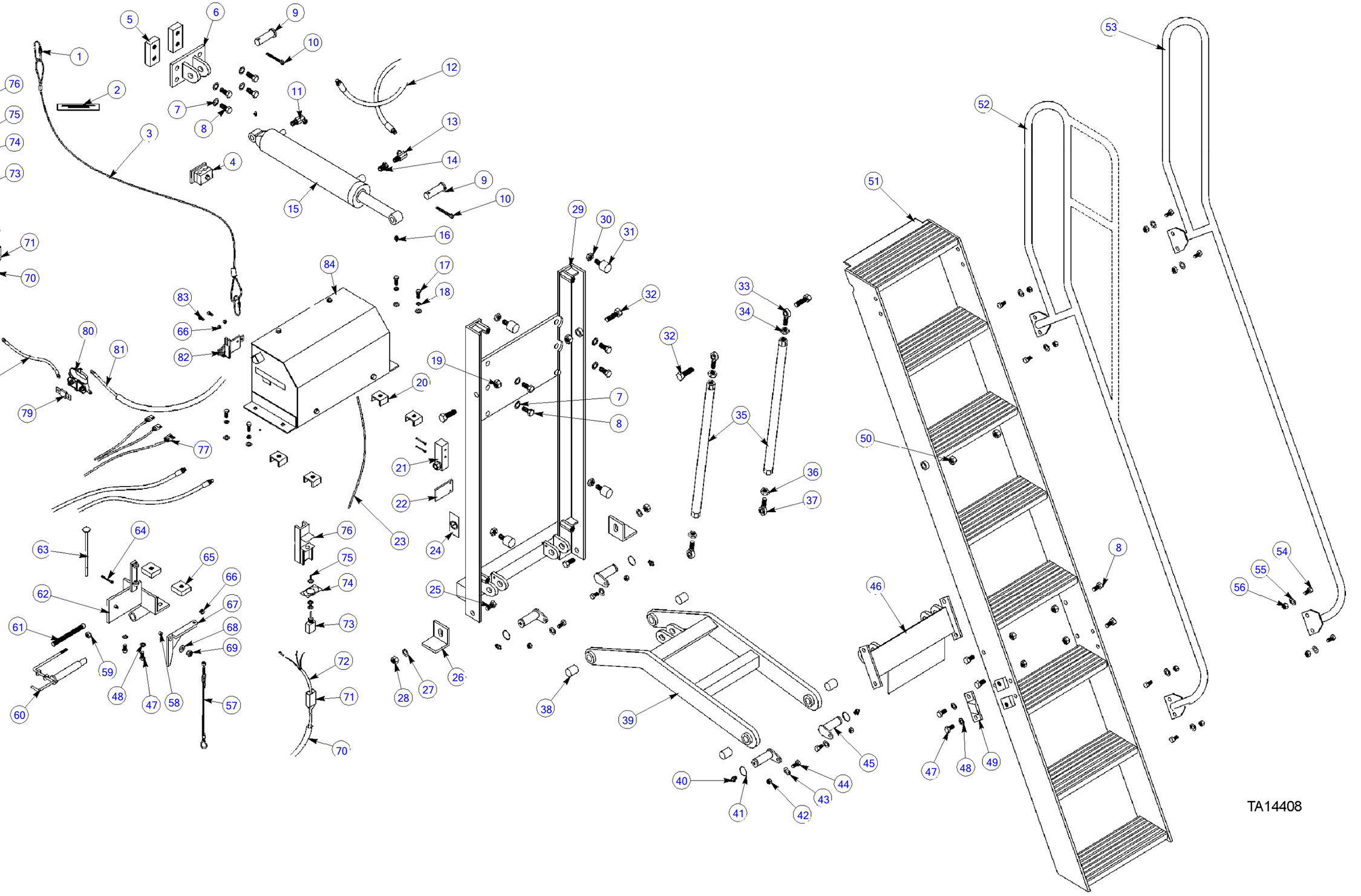
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			LADDER AND CATWALK GROUP (PL-664)		
1	R4278540	1	GRATING STRUCTURE, LIFTARM STEP		
2	R0753123	4	LOCKWASHER, 3/8"		
3	R0810971	4	BOLT, 3/8"-16 X 1"		
	R4000499	REF	BOLT BLOCK, 3/8"-16 X 1-1/2"	4	
4	R4274089	1	GRATING STRUCTURE, CENTER - FRONT FRAME		
5	R0032778	4	LOCKWASHER, 1/2"		
6	R0801180	16	BOLT, 1/2"-13 X 1"		
7	R4272564	1	CATWALK STRUCTURE/LIGHT POLE MOUNT, FRONT - L.H.		
8	R4272565	1	CATWALK STRUCTURE/LIGHT POLE MOUNT, FRONT - R.H.		
9	R4009524	14	BOLT, 3/4"-10 X 1-3/4"		
10	R0021542	14	LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
11	R4016046	14	FLATWASHER, 3/4" X 1-1/2" X 1/8"		
12	R4272535	2	HANDRAIL STRUCTURE		
13	R0810970	56	BOLT, 3/8"-16 X 3/4"		
14	R0812921	56	NUT, 3/8"-16		
15	R4285683	1	LADDER STRUCTURE, R.H.		
16	R4269912	1	GATE STRUCTURE, LADDER - R.H.		
17	R4102793	2	BOLT, 1/2"-13 X 2-1/2"		
18	R4286554	32	FLATWASHER, 9/16" X 1-3/8" X 3/16"		
19	R0801181	38	LOCKWASHER, 1/2"		
20	R0808489	6	NUT, 1/2"-13		
21	R4009752	24	BOLT, 1/2"-13 X 1-1/4"		
22	R4009753	12	BOLT, 1/2"-13 X 1-1/2"		
23	R4168328	2	MOUNT PAD, LADDER		
24	R4273973	1	STEP ASSEMBLY, 3-STEP - FLEXIBLE		
	R4273971	2	· STEP SIDE, 3-STEP - FLEXIBLE		
	R4105812	3	· STEP STRUCTURE		
	R4062661	12	· FLATWASHER, 1/2" I.D. X 1" O.D. X 1/32" - CONICAL		
	R0827222	12	· BOLT, 1/2"-13 X 2"		
	R4103804	6	· RETAINER, STEP		
25	R4103804	4	RETAINER, STEP		
26	R0810991	16	FLATWASHER, 1/2" X 1" X 1/8"		
27	R0827222	8	BOLT, 1/2"-13 X 2"		
28	R4289930	1	LADDER STRUCTURE, HYDRAULIC TANK		
29	R4289933	1	HANDRAIL STRUCTURE, HYDRAULIC TANK		
30	R4290999	1	CATWALK STRUCTURE, R.H.		
	R4291005	1	· DOOR GRATING STRUCTURE, HINGED - CATWALK STRUCTURE, R.H.		
31	R4291019	1	HANDRAIL STRUCTURE		
32	R4289974	1	HANDRAIL STRUCTURE		
33	R4277640	1	GATE STRUCTURE, CATWALK - R.H.		
34	R4291000	1	LADDER STRUCTURE, LOWER - CATWALK STRUCTURE, R.H.		
35	R4131194	18	BOLT, 3/8"-16 X 7/8"		
36	R0753123	42	LOCKWASHER, 3/8"		
37	R0808221	42	FLATWASHER, 3/8"		
38	R4223104	20	FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		
39	R4276764	1	HOUSING STRUCTURE, LADDER - REAR ACCESS, R.H.		
40	R4291142	1	LADDER STRUCTURE, REAR ACCESS - R.H.		
41	R0808476	24	BOLT, 3/8"-16 X 1-1/4"		
42	R4290981	1	HANDRAIL STRUCTURE, 39"		
43	R4290983	1	HANDRAIL STRUCTURE, 27"		
44	R4276776	2	HOUSING STRUCTURE, LADDER - PIVOT		
45	R4292099	2	LADDER STRUCTURE, PIVOT		
46	R4290934	1	CATWALK STRUCTURE, FRONT		
47	R4289972	1	HANDRAIL STRUCTURE, FRONT OUTER - R.H.		
48	R4264586	1	HANDRAIL STRUCTURE, FRONT INNER - R.H.		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
49	R4269951	1	GATE STRUCTURE, CATWALK - FRONT		
50	R4269950	1	HANDRAIL STRUCTURE, FRONT INNER - L.H.		
51	R4289971	1	HANDRAIL STRUCTURE, FRONT OUTER - L.H.		
52	R4274171	1	STEP STRUCTURE		
53	R4296814	1	CATWALK STRUCTURE, L.H.		
54	R4285696	1	LADDER STRUCTURE, CATWALK STRUCTURE - L.H.		
55	R4285691	1	SUPPORT BEAM, FRONT - REAR ACCESS PLATFORM STRUCTURE		
56	R0021629	10	BOLT, 5/8"-11 X 1-3/4"		
57	R0131165	21	LOCKWASHER, 5/8"		
58	R4286556	48	FLATWASHER, 5/8" X 1-3/4" X 1/8"		
59	R4296820	1	SUPPORT BEAM, REAR - REAR ACCESS PLATFORM STRUCTURE		
60	R0021666	6	BOLT, 1"-8 X 2"		
61	R4125632	6	LOCKWASHER, 1"		
62	R4286559	6	FLATWASHER, 1-1/16" I.D. X 2-1/2" O.D. X 1/4"		
63	R0198721	21	NUT, 5/8"-11		
64	R0021630	21	BOLT, 5/8"-11 X 2"		
65	R4289899	1	GATE STRUCTURE, CATWALK - L.H.		
66	R4296868	1	HANDRAIL STRUCTURE, L.H. LONG		
67	R4296822	1	CATWALK STRUCTURE, L.H.		
68	R4289919	1	HANDRAIL STRUCTURE, CATWALK - L.H.		
69	R4296811	1	HANDRAIL STRUCTURE, L.H. SHORT		
70	R4285679	1	STAIRWAY STRUCTURE		
71	R4289876	1	HANDRAIL STRUCTURE, STAIRWAY - OUTER		
72	R4289875	1	HANDRAIL STRUCTURE, STAIRWAY - INNER		
73	R4288571	1	GATE STRUCTURE, CATWALK - L.H.		
74	R4290991	1	STEP STRUCTURE, ENGINE BAY		
75	R4277753	1	HANDRAIL STRUCTURE, ENGINE BAY		
76	R4291180	1	PLATFORM STRUCTURE, REAR ACCESS		
77	R4277682	1	HANDRAIL STRUCTURE		
78	R4218779	1	HANDRAIL STRUCTURE		
79	R0025762	18	BOLT, 5/8"-11 X 1-1/2"		
80	R4280742	15	FLATWASHER, 5/8" I.D. X 7/8" O.D. X 1/8" - CONICAL, CUT		
	R4223105	3	FLATWASHER, 5/8" I.D. X 1-3/4" O.D. X 1/8" - CONICAL		
81	N.P.N.	REF	LADDER ASSEMBLY, REAR ACCESS - POWER STEP (PAGE 1.8-1.8B)		

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LADDER ASSEMBLY



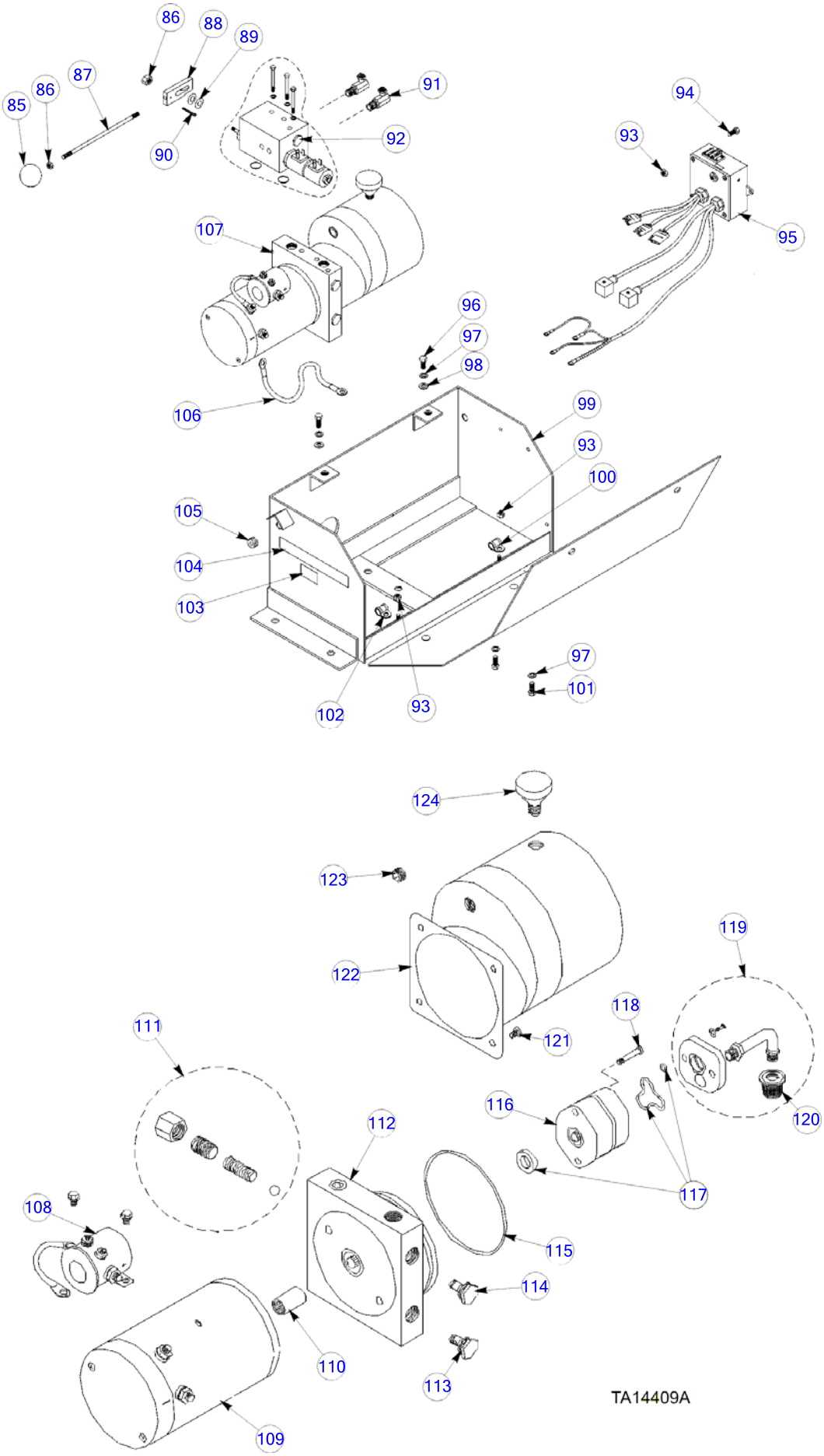
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LADDER ASSEMBLY

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LADDER ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4258301		LADDER ASSEMBLY, REAR ACCESS		1/16/19
1	R4270023	2	· LINK		9/2/15
2	R4270024	1	· LABEL, PULL CABLE		9/2/15
3	R4270025	1	· CABLE, PULL		9/2/15
4	R4258468	1	· CLAMP, HOSE - DOUBLE		9/2/15
5	R4258169	2	· MOUNT BLOCK		9/2/15
6	R4258170	1	· MOUNT, CYLINDER - REAR		9/2/15
7	R0021541	8	· LOCKWASHER, 5/8"		3/3/10
8	R0025762	12	· BOLT, 5/8"-11 X 1-1/2"		3/3/10
9	R4270029	2	· PIN, CYLINDER		9/2/15
10	R4270030	2	· PIN, COTTER - 3/16" X 2"		9/2/15
11	R4270031	1	· ELBOW, 1/4" X 90 deg. - .094" ORIFICE		9/2/15
12	R4270032	2	· HOSE, 65"		9/2/15
13	R4270033	1	· ELBOW, 1/4" X 90 deg. - .078" ORIFICE		9/2/15
14	R4270034	1	· ADAPTER, #4 FJ X 3/8" MP		9/2/15
15	R4258395	1	· CYLINDER		
16	R4270035	1	· GREASE FITTING		9/2/15
17	R0810971	4	· BOLT, 3/8"-16 X 1"		3/3/10
18	R0753123	4	· LOCKWASHER, 3/8"		3/3/10
19	R4016031	4	· LOCKNUT, 3/4"-16 - NYLON		3/3/10
20	R4258167	4	· MOUNT BLOCK		9/2/15
21	R4260076	1	· SWITCH, LIMIT - PROXIMITY		
22	R4270037	1	· BRACKET, LIMIT SWITCH		9/2/15
23	R4270038	1	· WIRE, MACHINE CONTROL		9/2/15
24	R4270039	1	· DECAL, CAUTION		9/2/15
25	R0021630	2	· BOLT, 5/8"-11 X 2"		3/3/10
26	R4258166	2	· MOUNT ANGLE, LOWER		9/2/15
27	R4010925	2	· FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		3/3/10
28	R0537156	2	· LOCKNUT, 5/8"-11		3/3/10
29	R4261312	1	· BRACKET, LADDER		
30	R0029771	4	· JAMNUT, 5/8"-18		1/16/19
31	R4258392	4	· BUMPER, STOP		
32	R4009824	4	· BOLT, 3/4"-16 X 2-1/2"		5/8/17
33	R4271741	2	· ROD END, 3/4"-16 - R.H.		9/2/15
34	R4256387	2	· JAMNUT, 3/4"-16 - R.H.		5/8/17
35	R4261301	2	· TURNBUCKLE TUBE		
36	R4060197	2	· JAMNUT, 3/4"-16 - L.H.		5/8/17
37	R4271742	2	· ROD END, 3/4"-16 - L.H.		9/2/15
38	R4271743	4	· BEARING, 1"		9/2/15
39	R4261300	1	· FRAME STRUCTURE, LIFT		
40	R4271744	3	· GREASE FITTING		9/2/15
41	R4271745	4	· RING, RETAINING - EXTERNAL, 1"		9/2/15
42	R0985114	4	· LOCKNUT, 3/8"-24		3/3/10
43	R0233042	8	· FLATWASHER, 3/8"		3/3/10
44	R4010393	4	· BOLT, 3/8"-24 X 1-1/4"		3/3/10
45	R4258394	4	· PIN, PIVOT		
46	R4286484	1	· LIFT PLATE		6/13/17
47	R0801180	4	· BOLT, 1/2"-13 X 1"		3/3/10
48	R0801181	4	· LOCKWASHER, 1/2"		3/3/10
49	R4271747	1	· LATCH PLATE		9/2/15
50	R4016031	4	· LOCKNUT, 3/4"-16 - NYLON		3/3/10
51	R4261311	1	· LADDER		
52	R4258390	1	· HANDRAIL, L.H.		
53	R4258391	1	· HANDRAIL, R.H.		
54	R4009753	8	· BOLT, 1/2"-13 X 1-1/2"		3/3/10
55	R0810991	8	· FLATWASHER, 1/2" X 1" X 1/8"		3/3/10
56	R4016017	8	· LOCKNUT, 1/2"-13 - NYLON		3/3/10
57	R4271748	1	· LATCH PULL		9/2/15

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
58	R4271749	1	· BEARING, 3/8"		9/2/15
59	R0985113	1	· LOCKNUT, 3/8"-16 - NYLON		3/3/10
60	R4258397	1	· LATCH PIN		
61	R4271750	1	· SPRING		9/2/15
62	R4271751	1	· LATCH BRACKET		9/2/15
63	R4258398	1	· LATCH PUSH ROD		
64	R4271752	1	· PIN, COTTER - 1/8" X 1"		9/2/15
65	R4258168	2	· MOUNT BLOCK		9/2/15
66	R4016029	3	· LOCKNUT, 1/2"-20 - NYLON		3/3/10
67	R4271754	1	· LATCH LEVER		9/2/15
68	R0043735	1	· FLATWASHER, 5/16"		3/3/10
69	R4008438	1	· LOCKNUT, 5/16"-18 - NYLON		3/3/10
70	R4271755	1	· WIRE HARNESS		9/2/15
71	R4258661	2	· BOOT, SWITCH		
72	R4271756	1	· WIRE HARNESS, LOWER SWITCH		9/2/15
73	R4258660	2	· SWITCH, TOGGLE		
74	R4271757	2	· DECAL, SWITCH		9/2/15
75	R4271758	2	· BOOT, TOGGLE		9/2/15
76	R4271759	2	· SWITCH, BRACKET		9/2/15
77	R4271760	1	· WIRE HARNESS, LIMIT SWITCH		9/2/15
78	R4271761	1	· CABLE, BATTERY - 30"		9/2/15
79	R4258663	1	· FUSE, 250A		
80	R4258662	1	· FUSE HOLDER		
81	R4271762	1	· CABLE, BATTERY - 8'		9/2/15
82	R4258396	1	· LEVER ASSEMBLY, VALVE		
83	N.P.N.	2	· BOLT, 1/4"-20 X 1"		
84	R4258389	1	· POWER UNIT MODULE		
85	R4270000	1	· · KNOB, 1/4"		9/2/15
86	R0985113	2	· · LOCKNUT, 3/8"-16 - NYLON		3/3/10
87	R4270001	1	· · ROD, VALVE RELEASE		9/2/15
88	R4270002	1	· · SLIDE, VALVE RELEASE		9/2/15
89	R4010923	2	· · FLATWASHER, 1/4"		3/3/10
90	R4270003	1	· · PIN, COTTER		9/2/15
91	R4270004	2	· · ELBOW,1/4" X 90 deg.		9/2/15
92	R4261317	1	· · VALVE ASSEMBLY		
	R4261308	1	· · · VALVE, CARTRIDGE - 4-WAY		
	R4261309	1	· · · VALVE, RELIEF		
	R4261310	1	· · · VALVE, RELEASE		
93	R4016015	4	· · LOCKNUT, 1/4"-20 - NYLON		3/3/10
94	R0810986	2	· · BOLT, 1/4"-20 X 3/4"		3/3/10
95	R4258664	1	· · CONTROL BOX ASSEMBLY		
	R4261305	1	· · · ALARM		
	R4261306	1	· · · RELAY		
	R4261307	1	· · · BREAKER, 10A		
96	R0810971	2	· · BOLT, 3/8"-16 X 1"		3/3/10
97	R0753123	4	· · LOCKWASHER, 3/8"		3/3/10
98	R0233042	2	· · FLATWASHER, 3/8"		3/3/10
99	R4270005	1	· · ENCLOSURE		9/2/15
100	R4270006	1	· · CLAMP, WIRE - 3/8"		9/2/15
101	R0810970	2	· · BOLT, 3/8"-16 X 3/4"		3/3/10
102	R4270007	1	· · CLAMP, WIRE - 3/4"		9/2/15
103	R4270008	1	· · LABEL, SHORT		9/2/15
104	R4270009	1	· · LABEL, LONG		9/2/15
105	R4270010	1	· · GROMMET		9/2/15
106	R4270011	1	· · CABLE, GROUND		9/2/15
107	R4260138	1	· · POWER UNIT ASSEMBLY		
108	R4261314	1	· · · SOLENOID ASSEMBLY		3/19/12
109	R4261315	1	· · · MOTOR, 24V		3/19/12

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
110	R4261316	1	· · · COUPLING		3/19/12
111	R4261304	1	· · · VALVE, RELIEF		3/19/12
112	R4270012	1	· · · MOUNT, MOTOR/PUMP		9/2/15
113	R4270013	1	· · · VALVE, CHECK		9/2/15
114	R4270014	1	· · · PLUG, CAVITY		9/2/15
115	R4270015	1	· · · O-RING		9/2/15
116	R4261303	1	· · · PUMP ASSEMBLY		
117	R4261302	1	· · · O-RING KIT, PUMP		
118	R4270016	2	· · · BOLT		9/2/15
119	R4270017	1	· · · INLET PLUMBING KIT		9/2/15
120	R4270018	1	· · · · FILTER		9/2/15
121	R4270019	4	· · · BOLT		9/2/15
122	R4270020	1	· · · RESERVOIR		9/2/15
123	R4270021	1	· · · PLUG		9/2/15
124	R4270022	1	· · · BREATHER		9/2/15

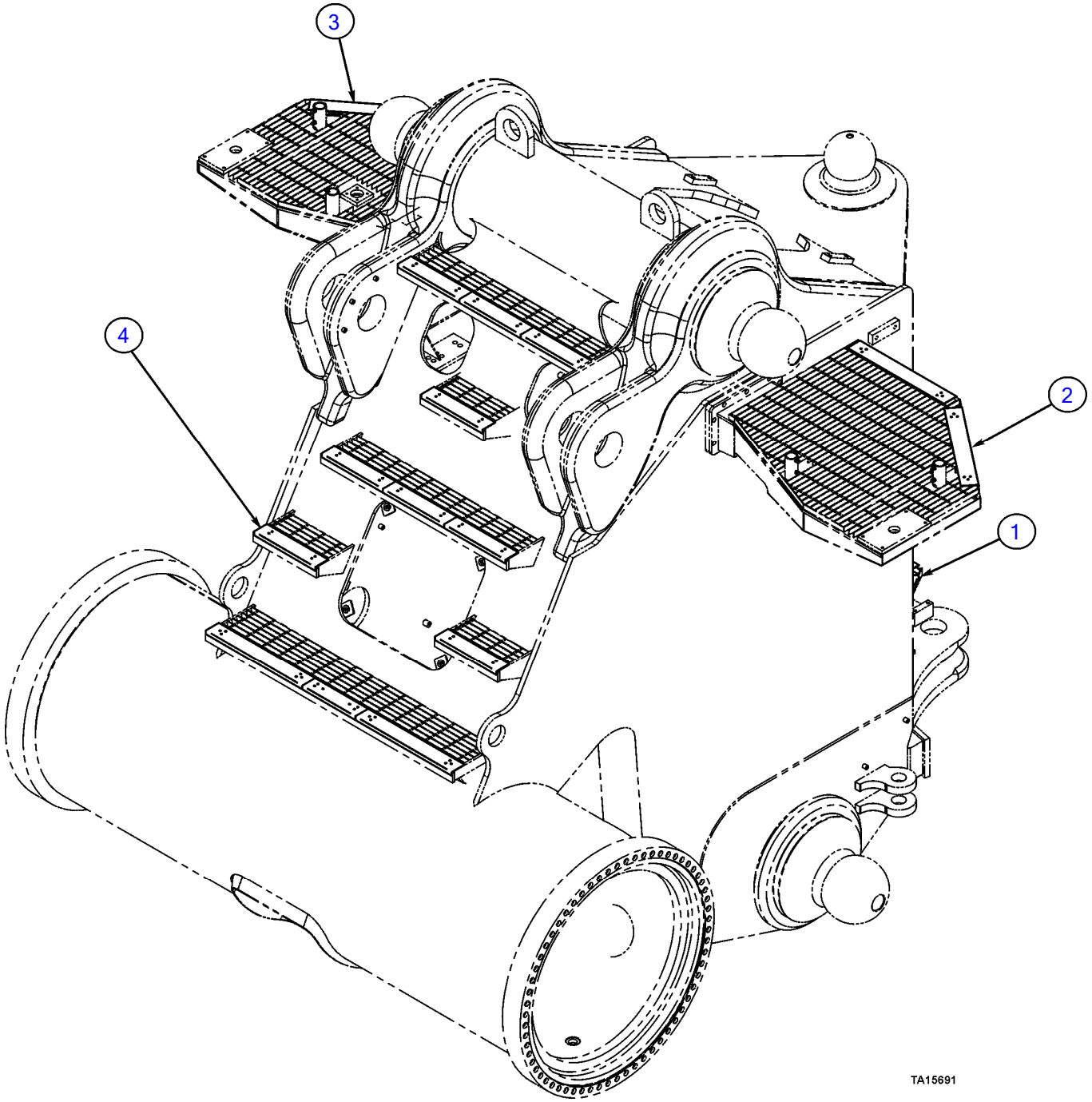
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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CATWALK ANTISLIP GROUP - FRONT FRAME



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CATWALK ANTISLIP GROUP - FRONT FRAME

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4276721		CATWALK ANTISLIP GROUP - FRONT FRAME		7/15/19
1	R4274214	1	· ANTISLIP GROUP - FRONT FRAME ENTRANCE		
	R4273908	1	· · STEP COVER - ANTISLIP, 15"		
	R4273902	2	· · STEP COVER - ANTISLIP, 13"		
	R4273927	6	· · SCREW, #12-24 X 2-1/2"		
2	R4276722	1	· ANTISLIP GROUP - LIGHT POLE CATWALK L.H.		
	R4274025	1	· · STEP COVER - ANTISLIP, 23-1/2"		
	R4273927	2	· · SCREW, #12-24 X 2-1/2"		
3	R4276723	1	· ANTISLIP GROUP - LIGHT POLE CATWALK R.H.		
	R4274025	2	· · STEP COVER - ANTISLIP, 23-1/2"		
	R4273927	4	· · SCREW, #12-24 X 2-1/2"		
4	R4276724	1	· ANTISLIP GROUP - FRONT STEPS		
	R4273908	9	· · STEP COVER - ANTISLIP, 15"		
	R4274025	2	· · STEP COVER - ANTISLIP, 23-1/2"		
	R4273902	1	· · STEP COVER - ANTISLIP, 13"		
	R4273927	24	· · SCREW, #12-24 X 2-1/2"		
	R4273946	REF	SADDLE ASSEMBLY WITH SCREW AND NUT		
		REF	DRAWING, CATWALK ANTISLIP GROUP - FRONT FRAME (R427672101)		7/15/19

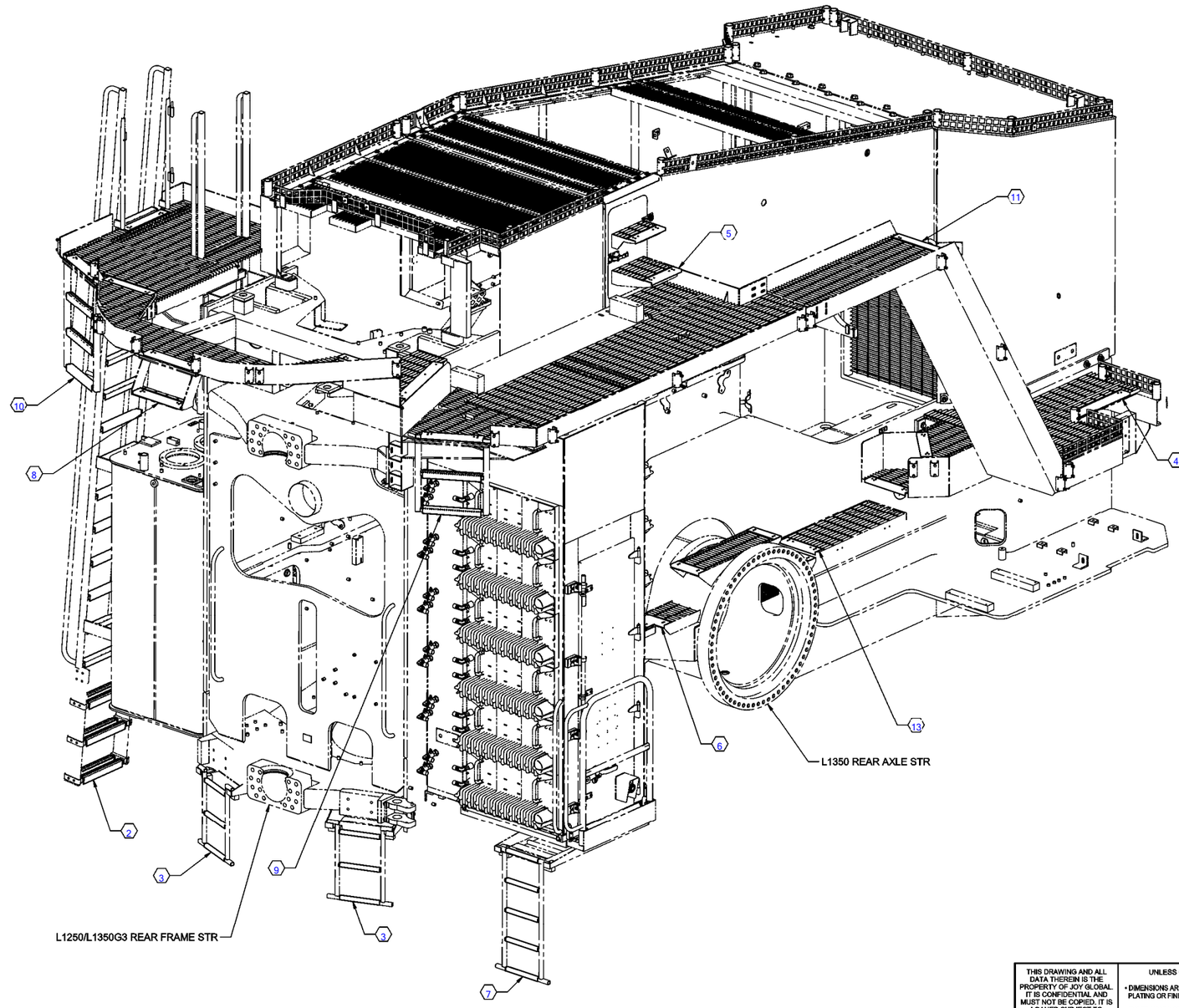
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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CATWALK ANTISLIP GROUP - REAR FRAME



ITEM	PART NO.	QTY	DESCRIPTION
14	4291032	1	GP ANTISLIP INNER HYD LADDER L1250
13	4291031	1	GP ANTISLIP R FRAME L1250
12	4291030	1	GP ANTISLIP RH LADDER L1250
11	4291029	1	GP ANTISLIP STAIRWAY L1250
10	4291028	1	GP ANTISLIP RH CATWALK L1250
9	4291027	1	GP ANTISLIP LH CATWALK L1250
8	4291026	1	GP ANTISLIP FT CATWALK L1250
7	4274129	1	GP ANTISLIP LAD 5-RUNG
6	4273993	1	GP ANTISLIP L1350 G2 R AXLE
5	4273996	1	GP ANTISLIP L1350 G2 HOOD
4	4293473	1	GP ANTISLIP L12/L13G3 COWL CTWLK
3	4274206	2	GP ANTISLIP LAD 3-RUNG
2	4274138	1	GP ANTISLIP FLEXSTEP FRONT
1	4276800	1	GP ANTISLIP LAD 4-RUNG

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO: 428-5662

		DATE
DWN		2-22-17
CHK		2-22-17
ENGR		
PROD ENGR		2-22-17
PROJ APPROVAL		
MATL	SEE NOTES	

JOYGLOBAL

GP ANTISLIP L12/L13G3 REAR

SIZE D | DO NOT SCALE | DWG NO. 4291025 | REV 01

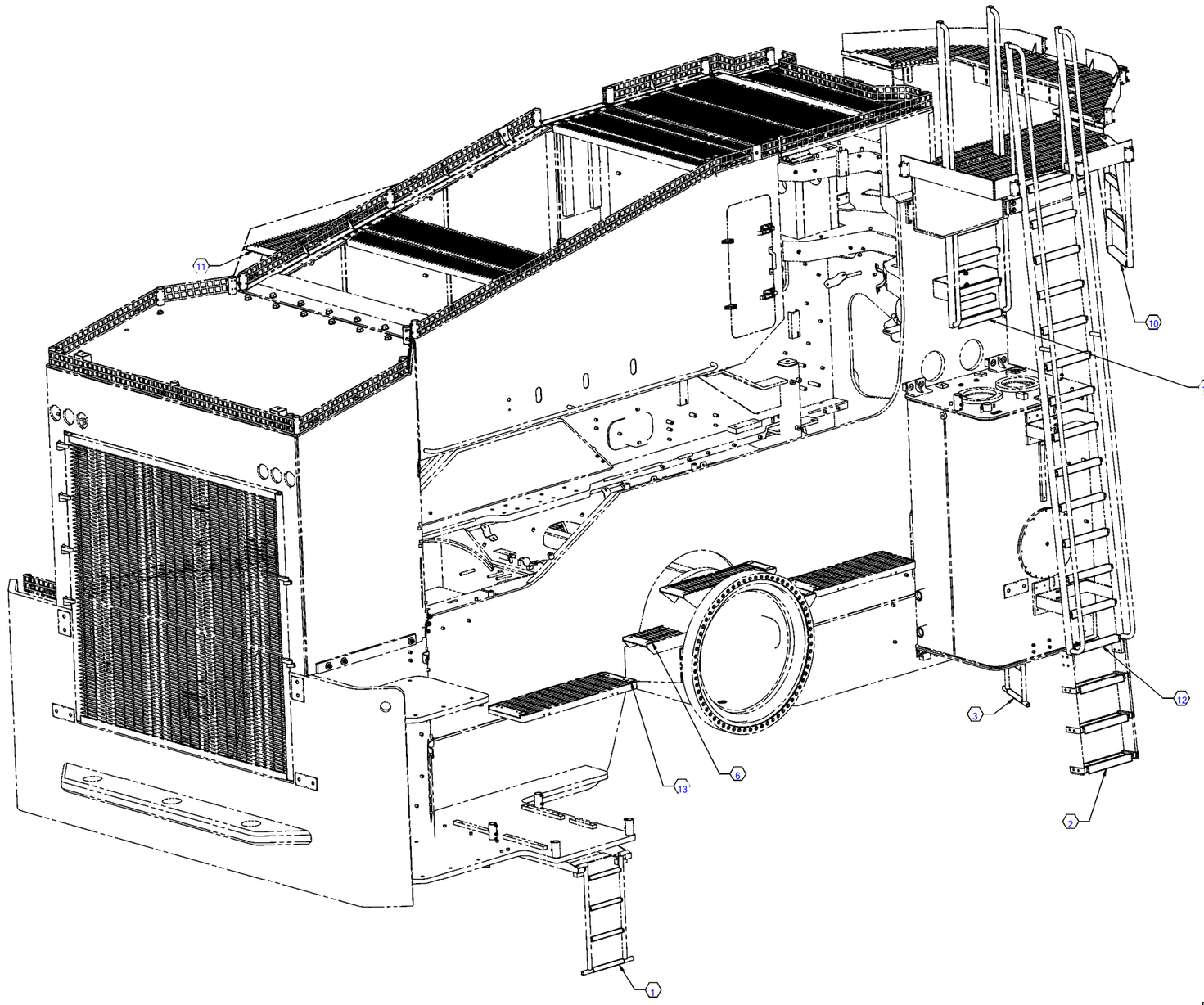
SCALE 1:16 | EST WT 93.0 lbm | SHEET 1 OF 2

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CATWALK ANTISLIP GROUP - REAR FRAME

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CATWALK ANTISLIP GROUP - REAR FRAME



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CATWALK ANTISLIP GROUP - REAR FRAME

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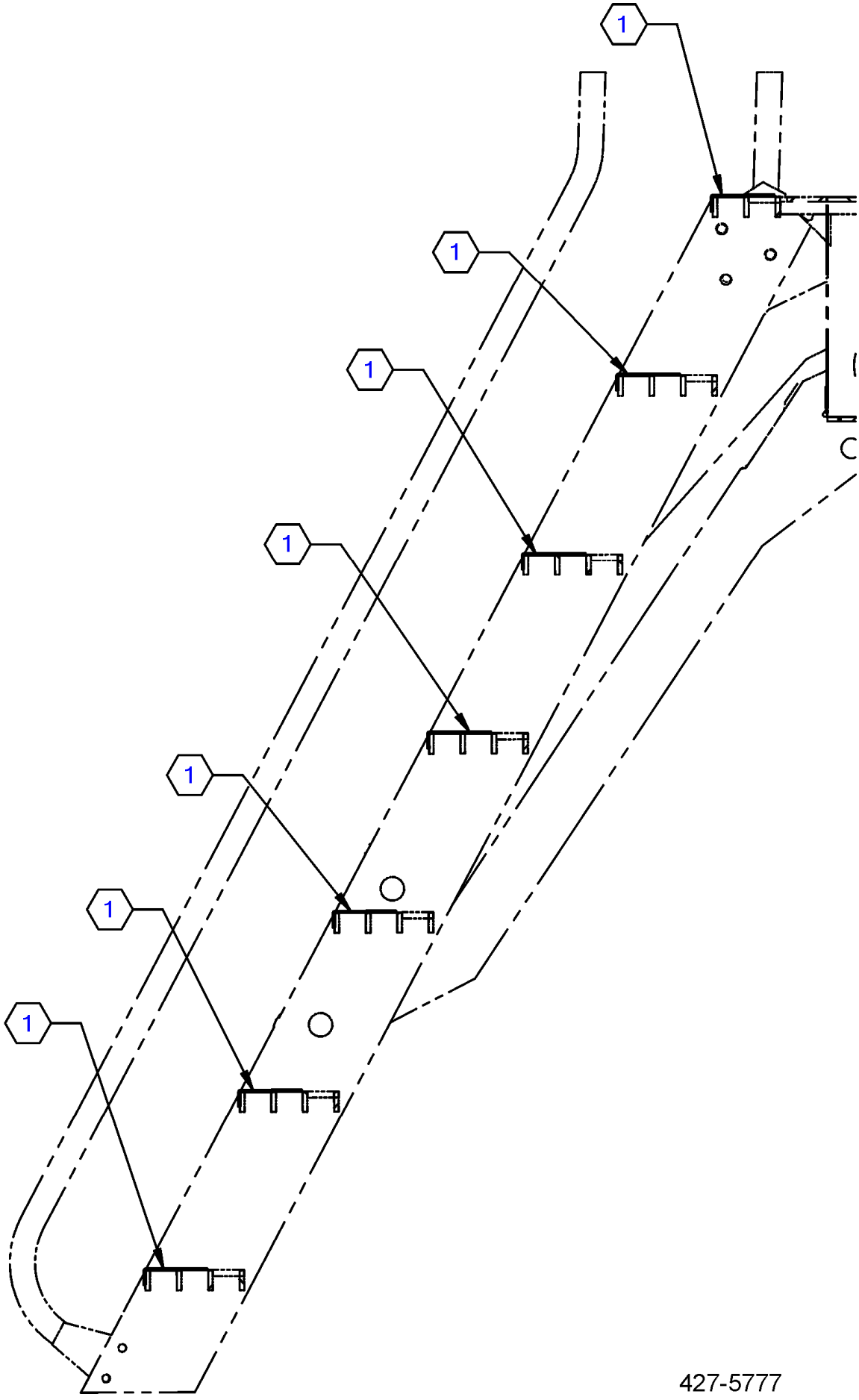
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4291025		CATWALK ANTISLIP GROUP - REAR FRAME L-1350 G2		
1	R4276800	1	· ANTISLIP GROUP - LADDER 4 RUNG		
	R4273914	4	· · STEP COVER - ANTISLIP, 11-7/8"		
	R4273912	1	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
2	R4274138	1	· ANTISLIP GROUP - FLEX STEP FRONT		
	R4273913	6	· · STEP COVER - ANTISLIP, 17-3/4"		
	R4273912	1	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
3	R4274206	2	· ANTISLIP GROUP - LADDER		
	R4273914	6	· · STEP COVER - ANTISLIP, 11-7/8"		
	R4273912	2	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
4	R4293473	1	· ANTISLIP GROUP - COWL CATWALK		
	R4274204	1	· · NOSING ASSSEMBLY, 15"		
	R4273908	1	· · · STEP COVER - ANTISLIP, 15"		
	R4273946	2	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
	R4273891	1	· · NOSING ASSEMBLY, 17-3/4"		
	R4273968	1	· · · STEP COVER - ANTISLIP, 17-3/4"		
	R4273946	2	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
	R4274026	1	· · NOSING ASSSEMBLY, 21-3/4"		
	R4273898	1	· · · STEP COVER - ANTISLIP, 21-3/4"		
	R4273946	2	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
5	R4273996	1	· ANTISLIP GROUP - HOOD		
	R4274028	2	· · NOSING ASSEMBLY, 13"		
	R4273902	2	· · · STEP COVER - ANTISLIP, 13"		
	R4273946	4	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
	R4273900	1	· · NOSING ASSEMBLY, 23-5/8"		
	R4274025	1	· · · STEP COVER - ANTISLIP, 23-5/8"		
	R4273927	2	· · · SCREW, #12-24 X 2-1/2"		
6	R4273993	1	· ANTISLIP GROUP - REAR AXLE		
	R4274027	8	· · NOSING ASSEMBLY, 10-1/4"		
	R4273904	8	· · · STEP COVER - ANTISLIP, 10-1/4"		
	R4273946	16	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
7	R4274129	1	· ANTISLIP GROUP - LADDER 5 RUNG		
	R4273914	5	· · STEP COVER - ANTISLIP, 11-7/8"		
	R4273912	1	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
8	R4291026	1	· ANTISLIP GROUP - FRONT CATWALK		
	R4274049	1	· · NOSING ASSEMBLY, 17-3/4"		
	R4273968	1	· · · STEP COVER - ANTISLIP, 17-3/4"		
	R4273927	2	· · · SCREW, #12-24 X 2-1/2"		
	R4273891	1	· · NOSING ASSEMBLY, 17-3/4"		
	R4273968	1	· · · STEP COVER - ANTISLIP, 17-3/4"		
	R4273946	2	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
9	R4291027	1	· ANTISLIP GROUP - LEFT SIDE CATWALK		
	R4274049	1	· · NOSING ASSSEMBLY, 17-3/4"		
	R4273968	1	· · · STEP COVER - ANTISLIP, 17-3/4"		
	R4273927	2	· · · SCREW, #12-24 X 2-1/2"		
	R4273913	2	· · STEP COVER - ANTISLIP, 17-3/4"		
	R4274156	1	· · NOSING ASSSEMBLY, 28"		
	R4273910	1	· · · STEP COVER - ANTISLIP, 28"		
	R4273927	1	· · · SCREW, #12-24 X 2-1/2"		
	R4273912	1	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
10	R4291028	1	· ANTISLIP GROUP - RIGHT SIDE CATWALK		
	R4274049	2	· · NOSING ASSSEMBLY, 17-3/4"		
	R4273968	2	· · · STEP COVER - ANTISLIP, 17-3/4"		
	R4273927	4	· · · SCREW, #12-24 X 2-1/2"		
	R4273913	3	· · STEP COVER - ANTISLIP, 17-3/4"		
	R4273912	1	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
11	R4291029	1	· ANTISLIP GROUP - STAIRWAY		
	R4274026	9	· · NOSING ASSSEMBLY, 21-3/4"		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273898	9	· · · STEP COVER - ANTISLIP, 21-3/4"		
	R4273946	18	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
12	R4291030	1	· ANTISLIP GROUP - RIGHT SIDE LADDER		
	R4273913	14	· · STEP COVER - ANTISLIP, 17-3/4"		
	R4273912	2	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
13	R4291031	1	· ANTISLIP GROUP - REAR FRAME		
	R4274028	5	· · NOSING ASSEMBLY, 13"		
	R4273902	5	· · · STEP COVER - ANTISLIP, 13"		
	R4273946	10	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
14	R4291032	1	· ANTISLIP GROUP - INNER HYDRALIC LADDER		
	R4273913	7	· · STEP COVER - ANTISLIP, 17-3/4"		
	R4273912	1	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
		REF	DRAWING, CATWALK ANTISLIP GROUP - REAR FRAME (R429102501)		

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CATWALK ANTISLIP GROUP - POWERSTEP LADDER



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4275777		CATWALK ANTISLIP GROUP - POWERSTEP LADDER		7/30/19
1	R4274204	7	· STEP COVER - ANTISLIP, 15"		7/30/19
	R4273946	14	· · SADDLE ASSEMBLY WITH SCREW AND NUT		
		REF	DRAWING, CATWALK ANTISLIP GROUP - POWERSTEP LADDER (R427577700)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			OPERATOR SEAT AND CONTROLS (PL-632)		
			NOTE:		
			· OPERATOR SEAT AND CONTROLS PARTS SEE PAGE 1.19-1.19A		
			· INSTRUMENT PANEL AND CONSOLE PARTS SEE PAGE 5.82-5.82A		

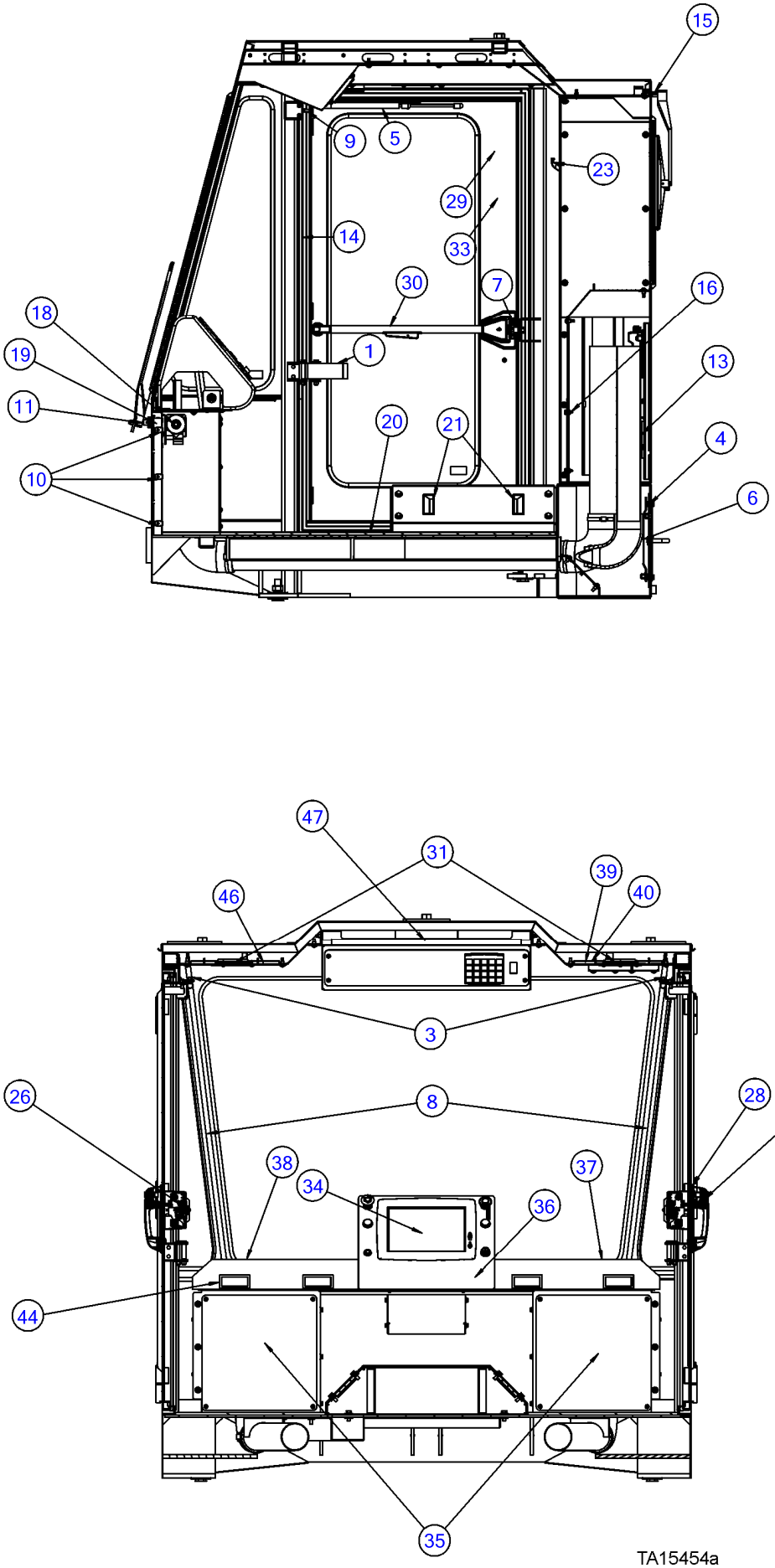
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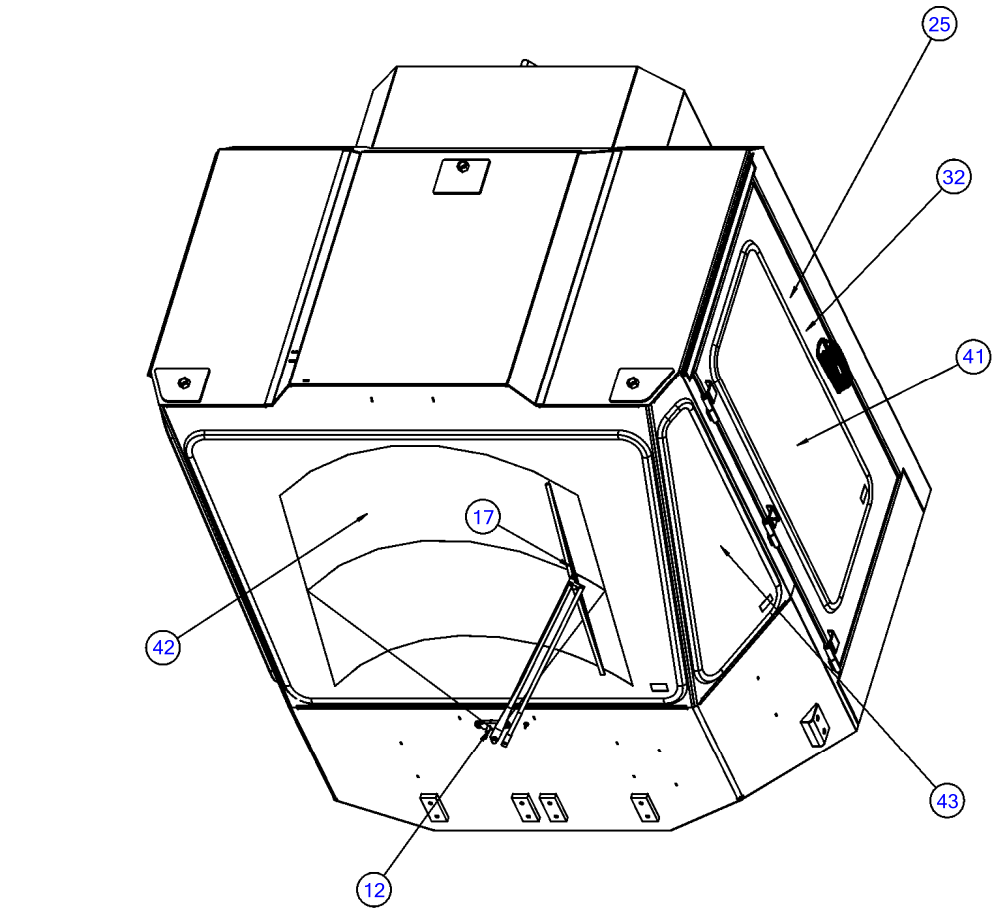


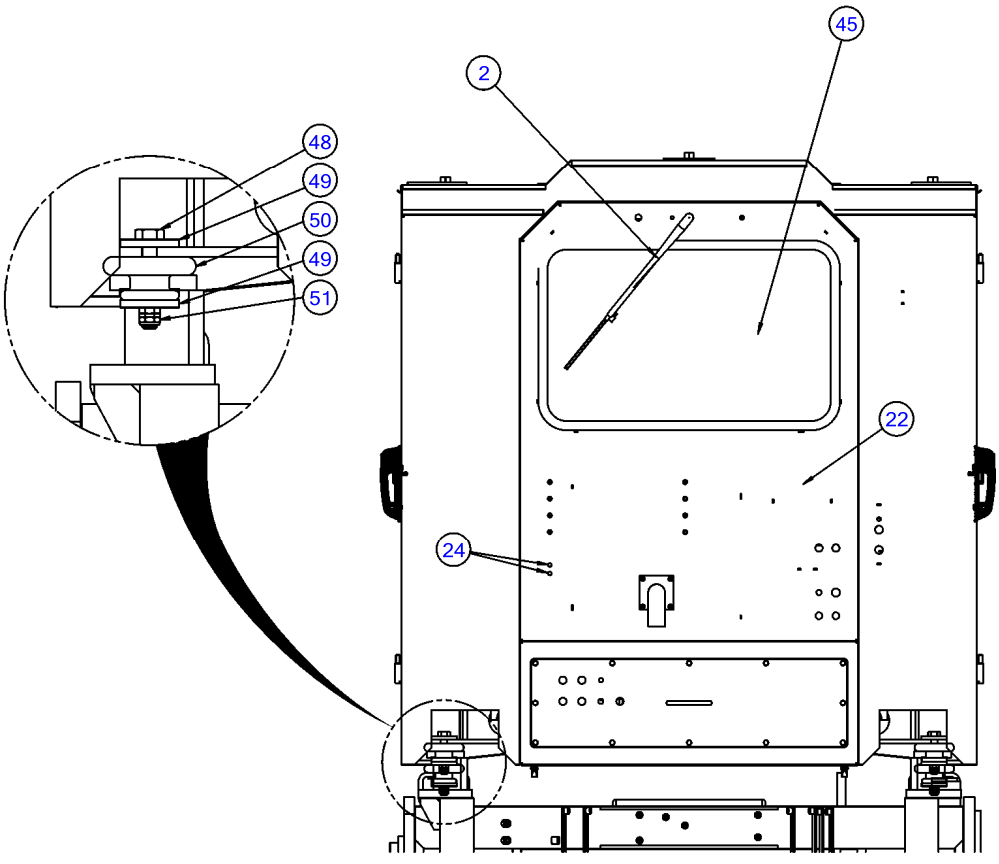
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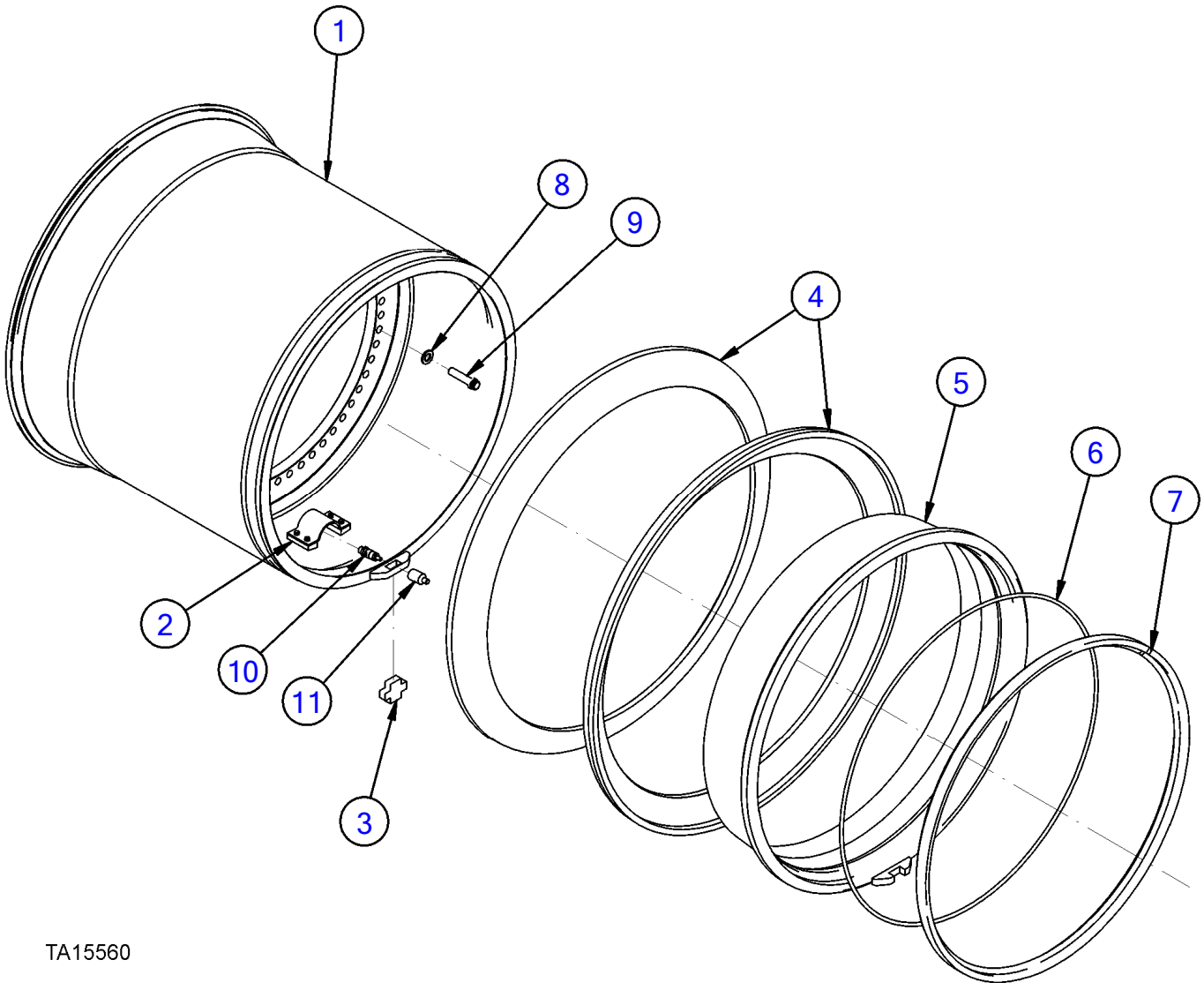
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	R4274633	1		CAB ASSEMBLY, 50 SERIES LINCS II		3/4/19
1	R4268349	2		· STRAP, DOOR HOLDER		
2	R4268350	1		· WIPER ARM, REAR		
	R4268528	1		· WIPER BLADE, REAR		
3	R4268351	2		· BALL STUD, GAS SPRING CYLINDER		
4	R4268352	8	FT	· SEAL STRIP, RUBBER		
5	R4268353	2		· GAS SPRING CYLINDER		
6	R4268354	2		· STRAP, TETHER		
7	R4268355	2		· STRIKER STUD & WASHER		
8	R4268356	15	FT	· TRIM EDGE, PVC		
10	R4268358	16		· NUT, U-CLIP		
11	R4268359	1		· WIPER SHAFT ASSEMBLY, FRONT		
12	R4268494	1		· PANTOGRAPHIC ADAPTER		
13	R4268495	1	FT	· SEAL STRIP, RUBBER		
14	R4268496	30	FT	· SEAL, DOOR (15' PER DOOR)		
15	R4268497	1		· WIPER MOTOR, REAR		
16	R4268498	4		· FASTENER		
17	R4268499	1		· WIPER BLADE, FRONT		
18	R4268500	1		· WIPER MOTOR, FRONT		
19	R4268501	1		· WIPER DRIVE ARM, FRONT		
	R4279011	1		· WIPER ARM, FRONT		6/30/14
NS	R4222234	REF		· SPRAYER NOZZLE KIT		
20	R4268502	1		· FLOOR MAT		
21	R4268503	4		· HANDLE, PULL POCKET		
22	R4268480	1		· A/C AND HEATER ASSEMBLY (PAGE 2.18)		
23	R4268504	1		· COAT HOOK, PLASTIC		
24	R4268505	2		· WIPER COWL FITTING		
25	R4268506	1		· DOOR ASSEMBLY, L.H.		
26	R4268507	1		· HANDLE, INTERIOR L.H.		
27	R4268508	1		· HANDLE, PULL		
28	R4268509	1		· GASKET, PULL HANDLE		
29	R4268510	1		· DOOR ASSEMBLY, R.H.		
30	R4268511	1		· HANDLE, INTERIOR R.H.		
31	R4245974	2		· LIGHT ASSEMBLY, LED - WHITE		
32	R4268512	1		· DOOR STRUCTURE, L.H.		
33	R4268513	1		· DOOR STRUCTURE, R.H.		
34	N.P.N.	1		· CONTROL PANEL ASSEMBLY (PAGE 5.82-5.82A)		
35	R4268515	1		· CONTROL PANEL STRUCTURE		
36	R4274634	1		· DASH PANEL, CENTER		
37	R4274635	1		· DASH PANEL, RIGHT		
38	R4274636	1		· DASH PANEL, LEFT		
	R4274637	1		· MOUNT BRACKET ASSEMBLY, DISPLAY		
	N.P.N.	1		· MOUNT PANEL, DISPLAY (PAGE 5.82-5.82A)		
	R4274639	1		· DASH MOUNT, REAR		
39	R4268519	1		· CEILING PANEL ASSEMBLY, R.H.		
40	R4268520	1		· CEILING PANEL STRUCTURE, R.H.		
41	R4268521	2		· GLASS, DOOR		
	R4279019	2		· RUBBER, DOOR GLASS		6/30/14
42	R4268522	1		· GLASS, FRONT		
	R4279016	1		· RUBBER, FRONT GLASS		6/30/14
43	R4268523	2		· GLASS, SIDE		
	R4279017	2		· RUBBER, SIDE GLASS		6/30/14
44	R4268524	10		· VENT ASSEMBLY, A/C AIR - DASH PANEL		6/30/14
45	R4268525	1		· GLASS, DOOR		
	R4279018	1		· RUBBER, REAR GLASS		6/30/14
46	R4268526	1		· CEILING PANEL STRUCTURE, L.H.		
47	R4268527	1		· CEILING PANEL STRUCTURE, CENTER		

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
				NOTE:		
		REF		· FOR MORE CAB INTERIOR PARTS SEE PAGE 5.82-5.82A		
				NOTE:		
				· FOR OPERATOR TRAINING SEAT AND MOUNT ASSEMBLY SEE PAGE 9.116-9.116A		
	R4270333	1		CAB INSTALLTION GROUP		
48	R4009830	4		· BOLT, 3/4"-16 X 4-1/2"		
49	R0711602	8		· FLATWASHER, 3/4" I.D. X 3" O.D. X 1/4"		3/4/19
50	R4240736	4		· MOUNT, RUBBER - 1400 LBS LOAD RATING		
	R4082921	REF		· MOUNT, RUBBER - 2400 LBS LOAD RATING		
51	R4016031	4		· LOCKNUT, 3/4"-16 - NYLON		
	R4254322	REF		FOPS ASSEMBLY (PAGE 1.2-1.2A)	1	
	R4010925	6		FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
	R0021541	6		LOCKWASHER, 5/8"		
	R0027595	3		BOLT, 5/8"-11 X 1-1/4"		
	R0021630	3		BOLT, 5/8"-11 X 2"		
	R4270334	1		WINDSHIELD WASHER KIT		
	R4255315	1		· SUPPORT STRUCTURE, TANK - WINDSHIELD WASHER		
	R4255180	1		· TANK, WINDSHIELD WASHER - 10 LITERS		
	R4255182	1		· · PUMP, WINDSHIELD WASHER		
	R4255187	1		· · TERMINAL HOUSING		
	R4255183	1		· · TERMINAL		
	R4010923	8		FLATWASHER, 1/4"		
	R0213584	8		LOCKWASHER, 1/4"		
	R0810986	8		BOLT, 1/4"-20 X 3/4"		
	R4103992	3		HOSE, AIR - #4, 100 PSI - 50" ROLL		
	N.P.N.	REF		ROLL BAR STRUCTURE (ROPS) (PAGE 1.2-1.2A)	1	
	R4264546	REF		COVER STRUCTURE, ROPS - L.H.	1	
	R4264547	REF		COVER STRUCTURE, ROPS - R.H.	1	
	R4222543	REF		HORN KIT, AIR	1	
	R4213818	REF		· HORN, AIR	1	
	R4163819	REF		· MOUNT, AIR HORN - REAR	1	
	R4222544	REF		· MOUNT, AIR HORN - FRONT	2	
	R4272831	1		FIRE EXTINGUISHER KIT, 20 LB. - ABC DRY		
	R4133196	1		· FIRE EXTINGUISHER, 20 LB. - ABC DRY		
	R4278501	1		· BRACKET, FIRE EXTINGUISHER		
	R4251774	1		· MOUNT STRUCTURE, FIRE EXTINGUISHER		
	R4131194	5		· BOLT, 3/8"-16 X 7/8"		
	R0808221	7		· FLATWASHER, 3/8"		
	R0753123	5		· LOCKWASHER, 3/8"		
	R0812921	3		· NUT, 3/8"-16		

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WHEEL ASSEMBLY



TA15560

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WHEEL ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4231164		WHEEL ASSEMBLY, 57 X 36 (-1)		9/14/11
1	R4231165	1	· RIM BASE STRUCTURE, 57 X 36		
2	R4219774	1	· PROTECTOR, VALVE		
	R0810970	4	· BOLT, 3/8"-16 X 3/4"		
	R0753123	4	· LOCKWASHER, 3/8"		
3	R4163716	1	· DRIVE LUG		
4	R4093790	1	· FLANGE		
5	R4163715	1	· BEAD SEAT BAND		
6	R4093792	1	· O-RING		
7	R4093793	1	· RING, LOCK		
8	R6957197	REF	WASHER, 1" - HARDENED, SPECIAL	64	
9	R4152660	REF	CAPSCREW, 1"-8 X 4"	64	
10	R4231233	REF	VALVE ASSEMBLY	1	5/4/98
	R4231234	REF	· VALVE, STRAIGHT	1	2/17/09
	R4231235	REF	· SPUD, SCREW IN	1	2/17/09
11	R4231236	REF	· CAP, VALVE	1	2/17/09
NS	R4231237	REF	VALVE ATTACHMENT, INFLATOR	1	5/4/98
	R4231172	REF	· ELBOW	1	2/17/09
	R4231173	REF	· VALVE	1	2/17/09
	R4231174	REF	· INFLATOR	1	2/17/09
	R4163732	REF	TIRE, GOODYEAR - 49.5 X 57, L4, 69PR		
	R4186468	REF	TIRE, OTR - 49.5 X 57, L4, 68PR		
	R4213899	REF	TIRE, GOODYEAR - 50/80 X 57, L4, 68PR		
	R4231032	REF	TIRE, 50/80 X 57, L4, 68PR		
	R4231462	REF	TIRE, 50/80 X 57, L4, 68 PR - NYLON/NYLON		
	R4234397	REF	TIRE, 52/80 X 57, 68 PR - SMOOTH		5/4/98
	R4233024	REF	TIRE, GOODYEAR - 52/80 X 57, L4, 68PR		3/25/99
	R4255679	REF	TIRE, GOODYEAR - 52/80 X 57, L4, 68PR		6/1/05
		REF	DRAWING, WHEEL ASSEMBLY (R423116402)		9/14/11

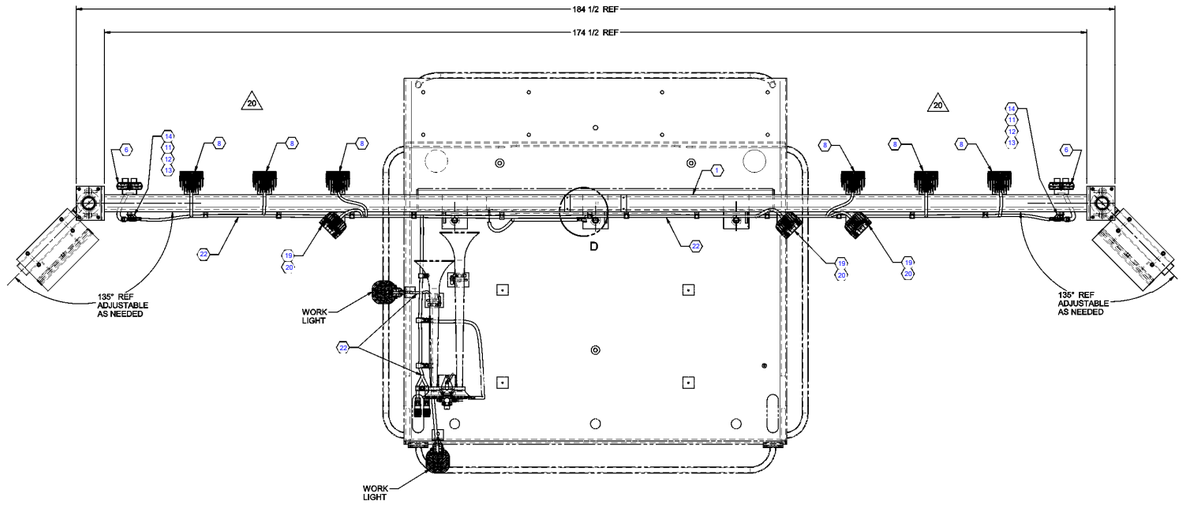
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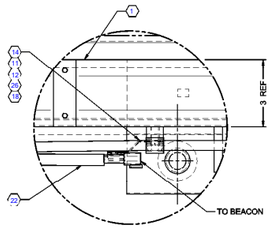
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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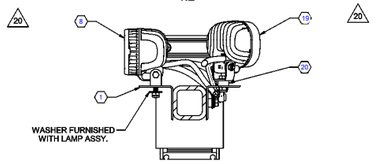
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MIRROR/LIGHT BAR ASSEMBLY

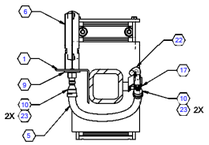




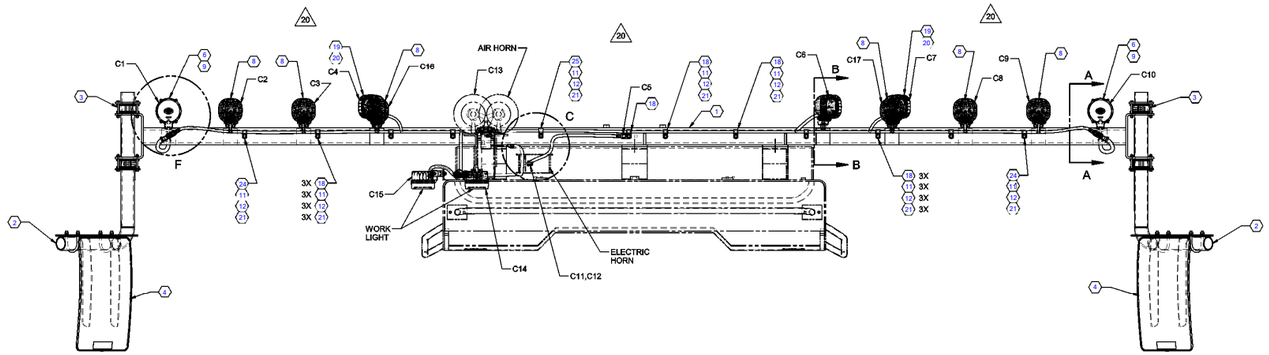
DETAIL D
1:2

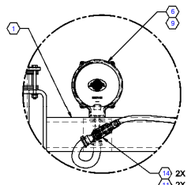


SECTION B-B
1:4



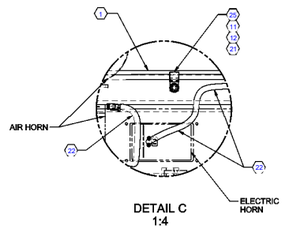
SECTION A-A
1:4





WIRING DIAGRAM	
LAMP	CONNECTOR
RED	PIN 1
BLK	PIN 2

DETAIL F
1:4



DETAIL C
1:4

NOTE: ITEM 7 AND 8 TO BE TIGHTENED TO 15 ft/lbs.

REFERENCE DRAWINGS				
ALL	LB	LB	LB	

ITEM	PART NO.	QTY	DESCRIPTION
26	0810970	1	BOLT HX .375 .750 NC G8 FT
25	4274399	1	CLAMP CABLE INSL .75 .406
24	4274558	2	CLAMP CABLE INSL .38 .406
23	4018725	8	CABLE TIE 4" BENT TIP/BLK
22	4289016	1	ASSY HARNESS MIRROR BAR LIGHTS
21	0768109	11	BOLT HX .375 .625 NC G8 FT
20	4164792	3	RUBBER BUSHING Ø.937 X .50
19	4292684	3	LAMP, 24V TYRI LED DIFFUSED WORK
18	4274559	9	CLAMP CABLE INSL .50 .406
17	4261175	2	DEUTSCH DT06-2S KIT
16	4120401	4	CABLE #16 AWG EXANE DLO 600 VAC
15	4274678	2	HEAT SHRINK TUBING, SELF SEAL 1/4 MIN I.D.
14	4259249	3	METAL CLIP/MOUNTING BRACKET
13	0824766	2	BOLT HX .375 .500 NC G8 FT
12	0763123	14	WASHER LOCK SPR .375 .68 .09
11	0808221	14	WASHER FLAT .375 .81 .08
10	4217725	4	END SLEEVE ESN16
9	4223104	2	WASHER CON .531 1.38 .15 HRD
8	4292886	6	LAMP, 24V TYRI LED MEDIUM FLOOD
6	4264984	2	LAMP LED DBL-SIDED AMBER 24V
5	4217700	4	CONDUIT NYLON NC16 HARNESSFLEX
4	4292877	2	MIRROR, REARVIEW SPHERICAL CONVEX
3	4163894	2	KIT MTG HDW - MIRROR LOADER
2	4219739	2	STR PIPE - MIRROR, LOADER
1	4265081	1	STR MIRROR BAR LTS MNT L13/18/23 G2/G3

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.010
- MACHINED CORNERS .164 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO
L1850/2350 LINCS II

DWN	3-05-09
CHK	3-10-09
ENGR	3-10-09
PROD ENGR	3-10-09
PROJ APPROVAL	
MATL	-

LeTourneau Technologies™

GP MIRROR BAR LIGHTS
L13/18/23 G2/G3

SIZE E | DO NOT SCALE | DWG NO. 4265080 | REV 20

SCALE 1/8 | WEIGHT 394.1 lbm | SHEET 1 OF 1

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MIRROR/LIGHT BAR ASSEMBLY

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MIRROR/LIGHT BAR ASSEMBLY

Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4265080			MIRROR/LIGHT BAR ASSEMBLY		6/19/19
1	R4265081	1		· CROSSMEMBER STRUCTURE, MIRROR/LIGHT		
2	R4219739	2		· PIPE STRUCTURE, MIRROR (PAGE 1.16-1.16B)		
3	R4163894	2		· MOUNTING HARDWARE KIT (PAGE 1.16-1.16B)		
4	R4292877	2		· MIRROR ASSEMBLY, CONVEX (PAGE 1.16-1.16B)		6/19/19
5	R4217700	15	FT	· CONDUIT, NYLON - NC16		
6	R4264984	2		· LAMP ASSEMBLY, DOUBLE SIDED AMBER - 24V		
7	N.P.N.			· NOT USED		6/19/19
8	R4292886	6		· LAMP ASSEMBLY, MEDIUM FLOOD - LED, 24V		6/19/19
9	R4223104	2		· FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		
10	R4217725	4		· SLEEVE, END		
11	R0808221	14		· FLATWASHER, 3/8"		
12	R0753123	14		· LOCKWASHER, 3/8"		
13	R0824766	2		· BOLT, 3/8"-16 X 1/2"		
14	R4259249	3		· MOUNTING BRACKET		
15	R4274678	2		· TUBING, HEAT SHRINK - 1/4"		
16	R4120401	4		· CABLE, #16 AWG 600V		
17	R4261175	2		· CONNECTOR KIT, DT06-2S KIT		
18	R4274559	9		· CLAMP, CABLE - INSULATED, 1/2"		
19	R4292884	3		· LAMP ASSEMBLY, WORK - LED, 24V		6/19/19
20	R4164792	3		· BUSHING, RUBBER - 5/16" I.D. X 1" O.D.		6/19/19
21	R0788159	11		· BOLT, 3/8"-16 X 5/8"		
22	R4289016	1		· HARNESS ASSEMBLY, LIGHT BAR (PAGE 1.16-1.16C)		8/24/18
23	R4018725	8		· CABLE TIE, 4" - BENT TIP/BLACK		
24	R4274558	2		· CLAMP, CABLE - INSULATED, 3/8"		
25	R4274399	1		· CLAMP, CABLE - INSULATED, 3/4"		
26	R0810970	1		· BOLT, 3/8"-16 X 3/4"		
		REF		DRAWING, MIRROR/LIGHT BAR ASSEMBLY (R426508020)		6/19/19

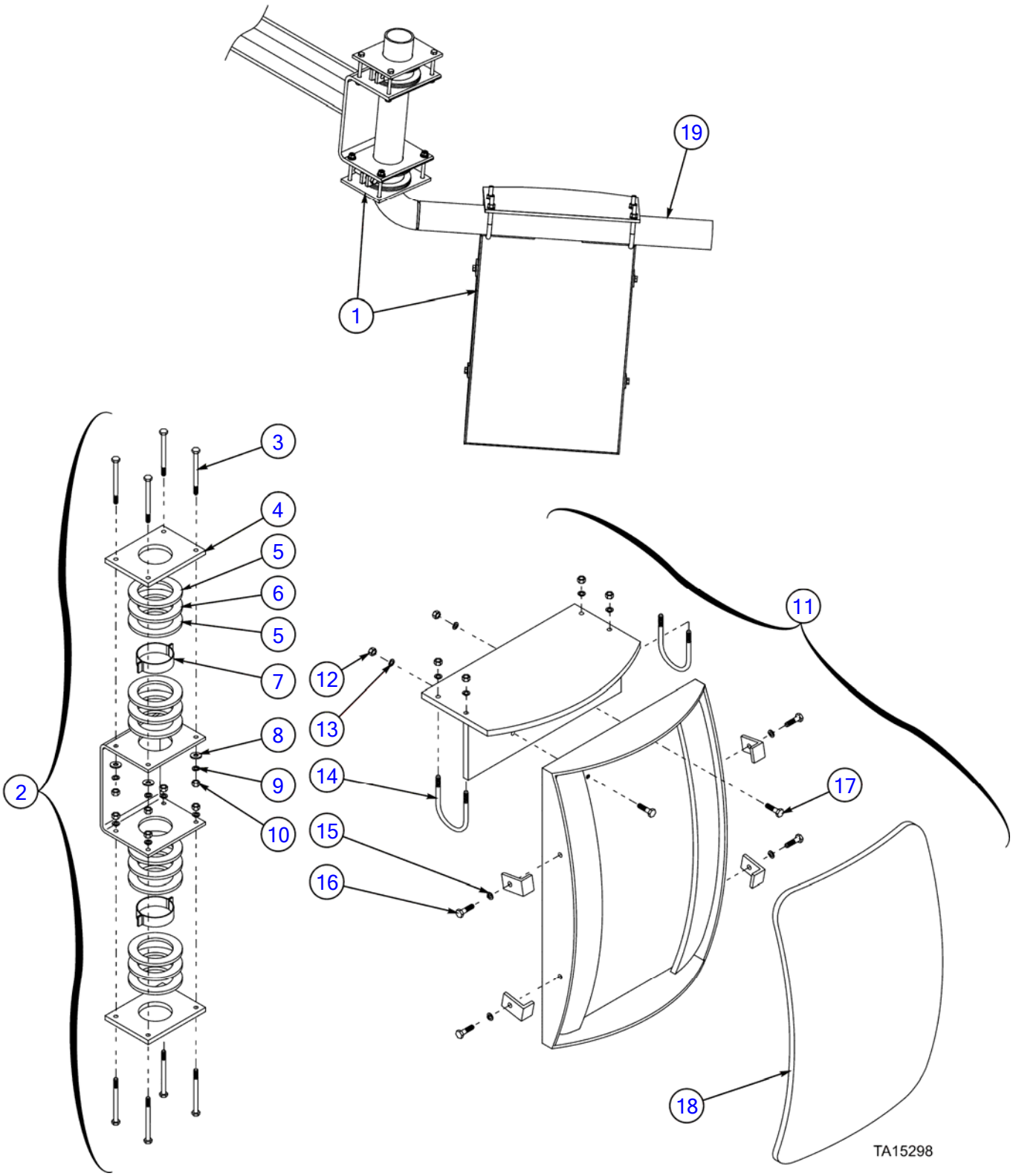
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

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MIRROR ASSEMBLY AND MOUNTING GROUP



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MIRROR ASSEMBLY AND MOUNTING GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
1	R4163895	2	MIRROR ASSEMBLY AND MOUNTING GROUP		6/19/19
2	R4163894	2	· MOUNTING HARDWARE KIT		
3	R0730503	16	· · BOLT, 1/4"-20 X 2-3/4"		
4	R4250907	4	· · PLATE, HOLD DOWN		
5	R4223407	16	· · RING, FRICTION - STEEL		
6	R4223408	8	· · RING, FRICTION - POLYETHYLENE		
7	R4223409	8	· · CLAMP HALF, SUPPORT POST		
8	R4010923	16	· · FLATWASHER, 1/4"		
9	R0213584	16	· · LOCKWASHER, 1/4"		
10	R4012935	16	· · NUT, 1/4"-20		
11	R4292877	2	· MIRROR ASSEMBLY, CONVEX		6/19/19
12	R0812921	4	· · NUT, 3/8"-16		
13	R0753123	4	· · LOCKWASHER, 3/8"		
14	R4016001	4	· · CLAMP, U-BOLT - 2-1/2"		
15	N.P.N.		· · NOT USED		6/19/19
16	N.P.N.		· · NOT USED		6/19/19
17	N.P.N.		· · NOT USED		6/19/19
18	N.P.N.		· · NOT USED		6/19/19
19	R4219739	2	PIPE STRUCTURE, MIRROR		

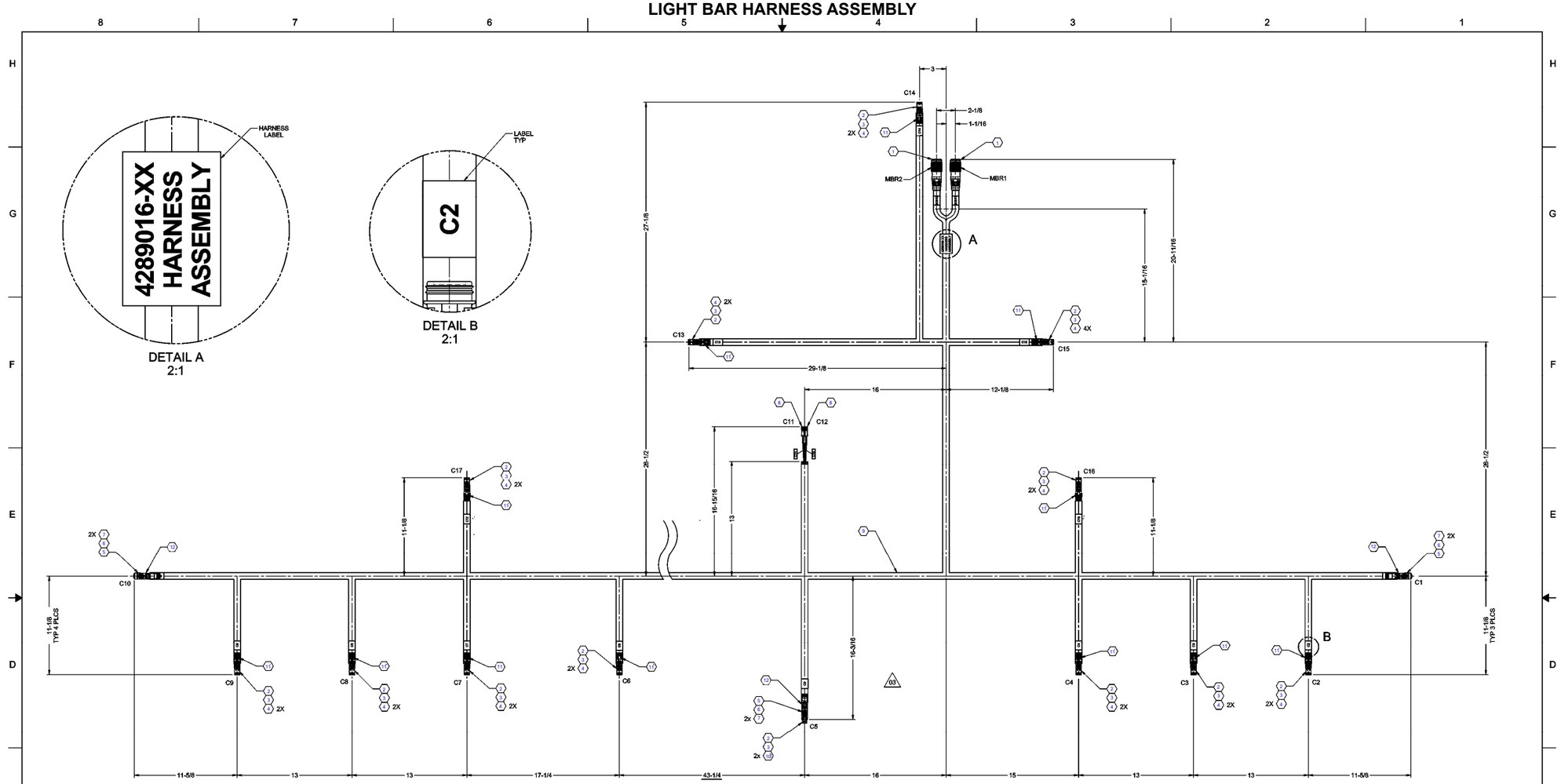
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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LIGHT BAR HARNESS ASSEMBLY



CONNECTOR LEGEND	
CONNECTOR	DESCRIPTION
MBR1	POWER
MBR2	POWER
C1	LEFT TURN SIGNAL
C2	WIDE FLOOD LIGHT LEFT
C3	FLOOD LIGHT LEFT
C4	FLOOD LIGHT LEFT
C5	BEACON
C6	HYDRAULIC TANK LADDER LIGHT
C7	FLOOD LIGHT RIGHT
C8	FLOOD LIGHT RIGHT
C9	WIDE FLOOD LIGHT RIGHT
C10	RIGHT TURN SIGNAL
C11(+)	ELECTRIC HORN HIGH
C12(-)	ELECTRIC HORN LOW
C13	AIR HORN SOLENOID
C14	HOOD LIGHT
C15	TOP LADDER LIGHT
C16	PERIPHERAL LEFT LIGHT
C17	PERIPHERAL RIGHT LIGHT

MATERIAL:
- EY TECHNOLOGIES VINYL COATED NYLON YARN TYPE VN-4000S
  COLOR: BLACK

ASSEMBLY NOTES:
- FOR CONNECTORS C1 THROUGH C17, START BRAIDING 1/8 INCH FROM BACK OF CONNECTOR IF POSSIBLE.
- START BRAIDING ON CONNECTORS WITH BACKSHELL AT LOCATION THAT MAKES IT POSSIBLE TO CLOSE.
- FOR CONNECTORS MBR1 AND MBR2, LEAVE 3 INCHES OF THE OUTER JACKET IN PLACE AND START THE BRAIDING AT THE CONNECTOR OVERMOLDING.

LABELS:
- REFERENCE TYCO ELECTRONICS P/N SBPT0022SWES
- LABEL THE HARNESS ASSEMBLY AS SHOWN IN DETAIL A WITH 'XX' BEING THE CURRENT REVISION.
- LABEL MBR1 AND MBR2 CONNECTORS AT THE END OF THE BRAIDING NEAR THE CONNECTOR OVERMOLDING.
- LABEL THE REMAINING CONNECTORS AS SHOWN IN DETAIL B.
- COVER ALL LABELS WITH CLEAR HEAT SHRINK.

NOTE:
ALL DIMENSION TOVERANCES ARE ± 1/2 INCH (EXCEPT BRAIDING).

ITEM	PART NO.	QTY	DESCRIPTION
12	4282901	3	RECEPTACLE BACKSHELL DT04-2P
11	4282903	12	PLUG BACKSHELL DT06-2S
10	4153882	2	SEALING PLUG
9	4281707	32.80	CABLE SINGLE COND #18 AWG 600V
8	4120430	2	FASTON CONN 22-18 250 RED INS
7	4185763	6	PIN CONTACT, SIZE 16
6	4255416	3	WEDGE W2P DEUTSCH
5	4255415	3	RECEPTACLE DT04-2P DEUTSCH
4	4185764	24	SOCKET CONTACT SIZE 16 -4
3	4255413	13	WEDGE W2S DEUTSCH
2	4255414	13	PLUG DT06-2S DEUTSCH
1	4286174	2	CABLE 12 PIN - OPEN 6M

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INTERPRET DIM & TOL PER ASME Y14.5M-1994

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1°; FRACTIONS ±1/16; .XX DECIMAL ±.03; .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO: -

DWN	J.MARTIN	4-18-17
CHK	JPS	4-18-17
ENGR	JS	4-18-17
PROD ENGR	JS	4-18-17
PROJ APPROVAL		
MATL	PURCHASED B	

JOYGLOBAL

ASSY HARNESS MIRROR BAR LIGHTS

SIZE E | DO NOT SCALE | DWG NO. 4289016 | REV 03

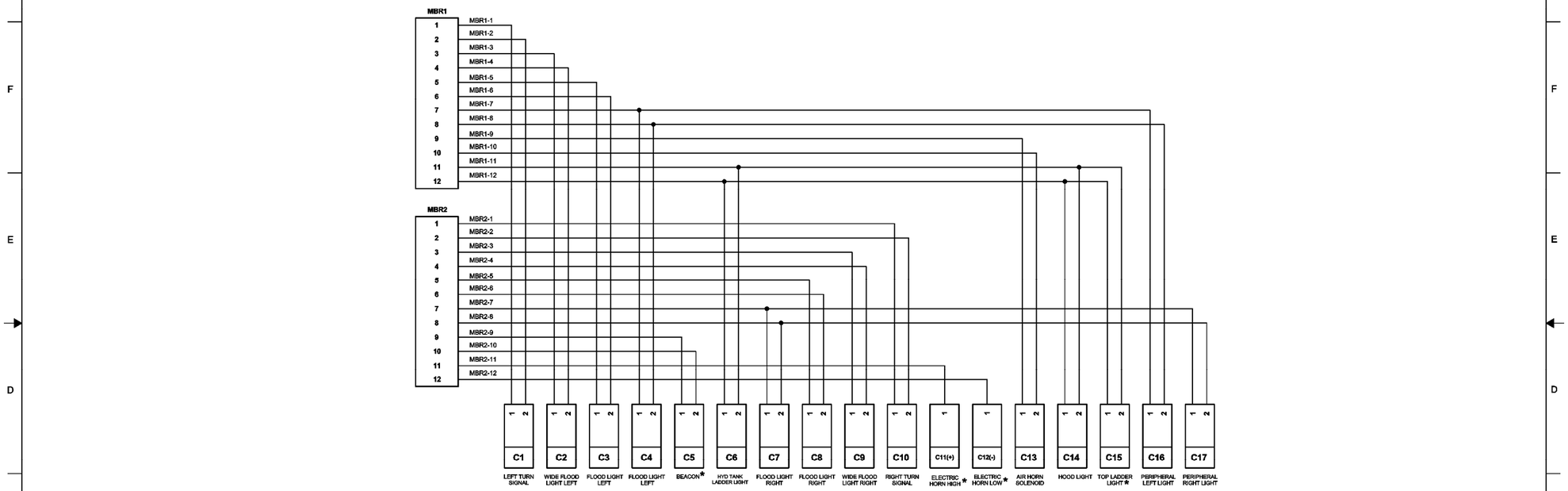
SCALE 1/4 | WT/FT - | SHEET 1 OF 2

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LIGHT BAR HARNESS ASSEMBLY

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LIGHT BAR HARNESS ASSEMBLY



SCHEMATIC
HARNESS MIRROR BAR LIGHTS

***NOT PART OF GP MIRROR BAR LIGHTS.**

ASSY HARNESS MIRROR BAR LIGHTS	SIZE E	DO NOT SCALE	DWG NO. 4289016 REV 03
DRAWN J.MARTIN	SCALE NONE	WEIGHT 0.4 lbm	SHEET 2 OF 2
ENGR 4-15-17			

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LIGHT BAR HARNESS ASSEMBLY

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LIGHT BAR HARNESS ASSEMBLY

Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4289016			LIGHT BAR HARNESS ASSEMBLY		8/13/19
1	R4286174	2		· CABLE, 12 PIN-OPEN - 6M		
2	R4255414	13		· PLUG		
3	R4255413	13		· WEDGE		
4	R4185764	24		· SOCKET, CONTACT - 16		
5	R4255415	3		· RECEPTACLE, DT04-2P		
6	R4255416	3		· WEDGE, W2P		
7	R4185763	6		· PIN, CONTACT - 16		
8	R4120430	2		· RECEPTACLE, TERMINAL		
9	R4281707	33	FT	· CABLE, 16 AWG 600V		
10	R4153882	2		· PLUG, SEALING - #12-16 AWG		
11	R4282903	12		· PLUG, BACKSHELL - DT06-2S		
12	R4282901	3		· RECEPTACLE, BACKSHELL - DT04-2P		
		REF		DRAWING, LIGHT BAR HARNESS ASSEMBLY (R428901603)		8/13/19

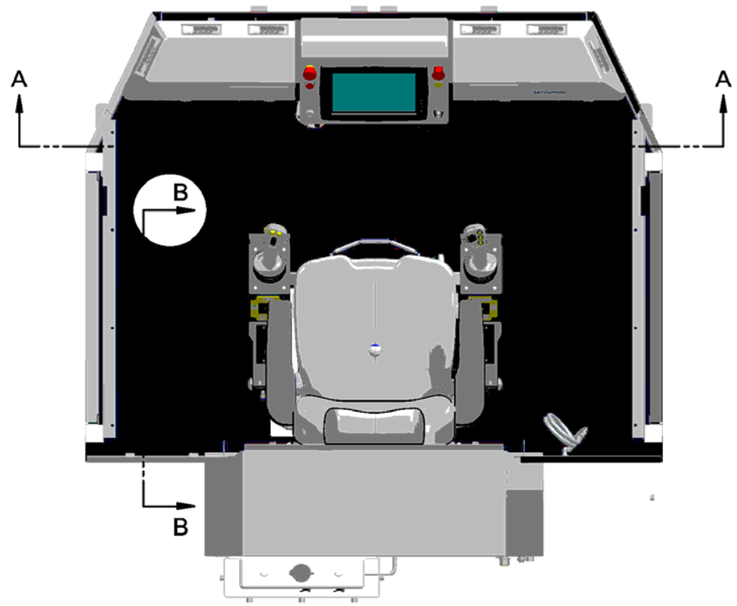
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

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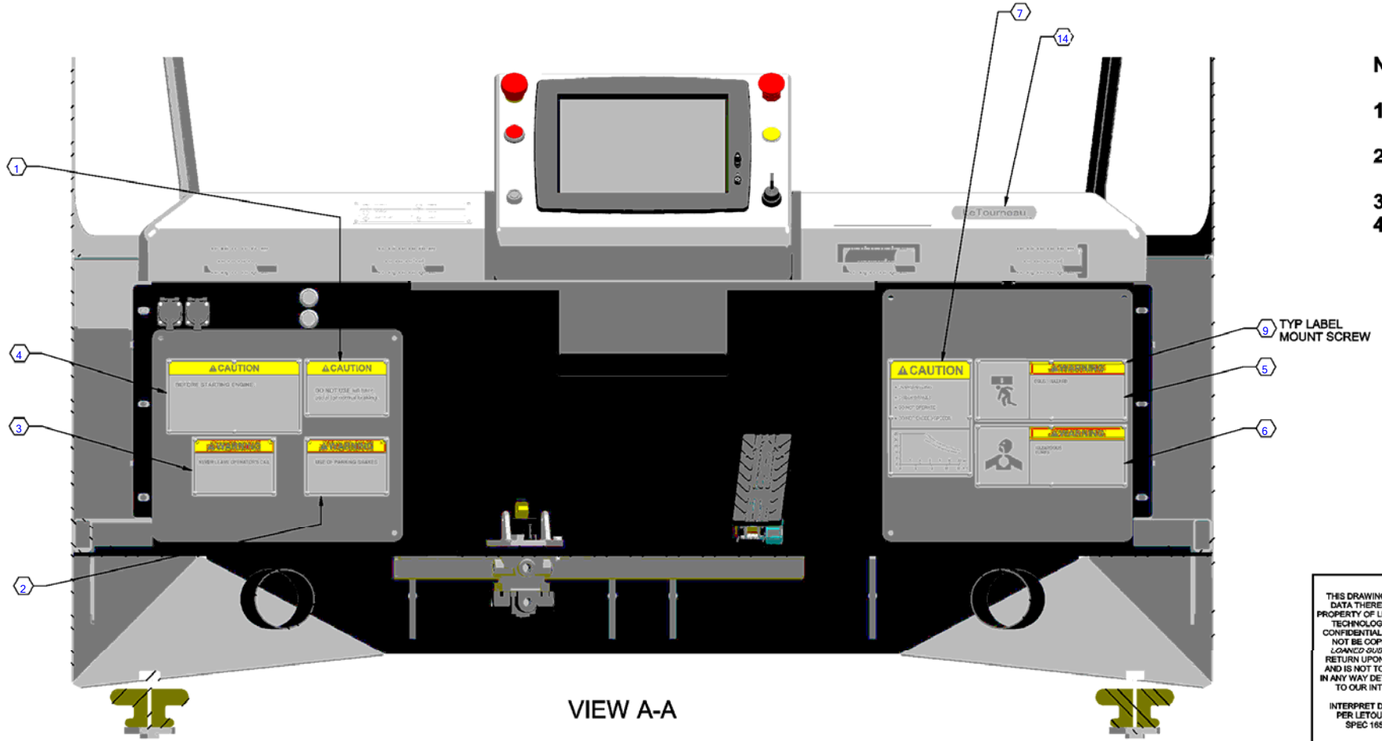
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CAB SAFETY LABEL GROUP G2



CAB TOP VIEW
CAB ROOF PLATES REMOVED FOR CLARITY

GRADE PLATE - G2 LOADER								
LOADER MODEL	ENGLISH	SPANISH	PORTUGUESE	FRENCH	CHINESE	RUSSIAN	TURKISH	SWEDISH 05
L950	427-1963	427-5265	427-1967	427-2008	427-2013	427-5311	427-7237	-
L1150	427-1847	427-1901	427-1900	427-2009	427-1846	427-5312	427-7238	-
L1350	427-1964	427-5266	427-1968	427-2010	427-2014	427-5313	427-7239	429-9335
L1850	427-1965	427-5267	427-1969	427-2011	427-2015	427-5314	427-9606	429-9336
L2350	427-1966	427-5268	427-1956	427-2012	427-2016	427-5315	427-9607	429-9337



VIEW A-A

NOTES:

1) BILL OF MATERIALS ARE FOR REFERENCE ONLY.
   (BOM SHOWN ENGLISH PART NOs.)
2) SHEET-2: G2 CAB LABELS CHART SHOWS LABEL PART NOs.
   FOR OTHER LANGUAGES.
3) SHEET-3: MOUNT HOLES DETAILS FOR LEFT & RIGHT CONSOLE LABELS.
4) SHEET-4: MOUNT HOLES DETAILS FOR DASH & KEYPAD LABELS.

ITEM	PART NO.	QTY	DESCRIPTION
14	4292621	1	LABEL LETOURNEAU 1.06 X 5.00
13	4171085	6	POP RIVET 1/8 x 1/2
12	4279660	1	KEYPAD LABEL WITH ICONS ENG SS
11	4081112	4	POP RIVET 1/8 x 3/16
10	4279667	1	CAB DASH LABEL W/ ICONS ENG SS
9	4277145	36	SCREW #6-32UNCx3/32 PH SS
8	4279632	1	LOADER JOYSTICK LABEL W/ ICONS ENG SS
7	4271847	1	GRADE PLATE L1150 92 50/65 ENG SS
6	4271872	1	WARNING HAZARDOUS FUMES ENG SS
5	4271856	1	WARNING CRUSH HAZARD ENG SS
4	4271855	1	CAUTION STARTING ENG SS
3	4271854	1	WARNING CAB ENG SS
2	4271853	1	WARNING PARK BRAKES ENG SS
1	4271852	1	CAUTION BRAKING NOTE ENG SS

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° | FRACTIONS ±1/16 | .XX DECIMAL ±.03 | .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO L18502012

		DATE
DWN		3-27-2012
CHK		4-12-2012
ENGR		
PROD ENGR		4-12-2012
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

INSTALLATION G2 CAB LABELS

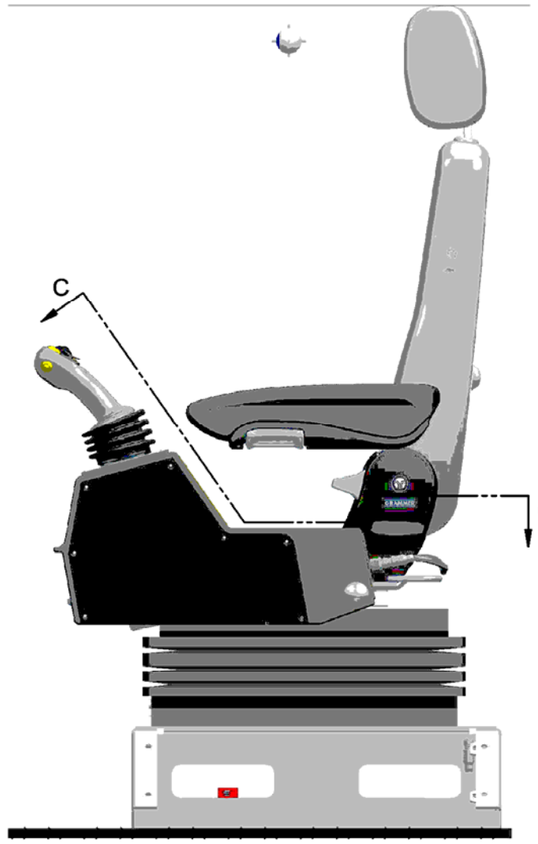
SIZE D | DO NOT SCALE | DWG NO. 4277130 | REV 05

SCALE 1/8 | EST WT 10035.9 lbm | SHEET 1 OF 4

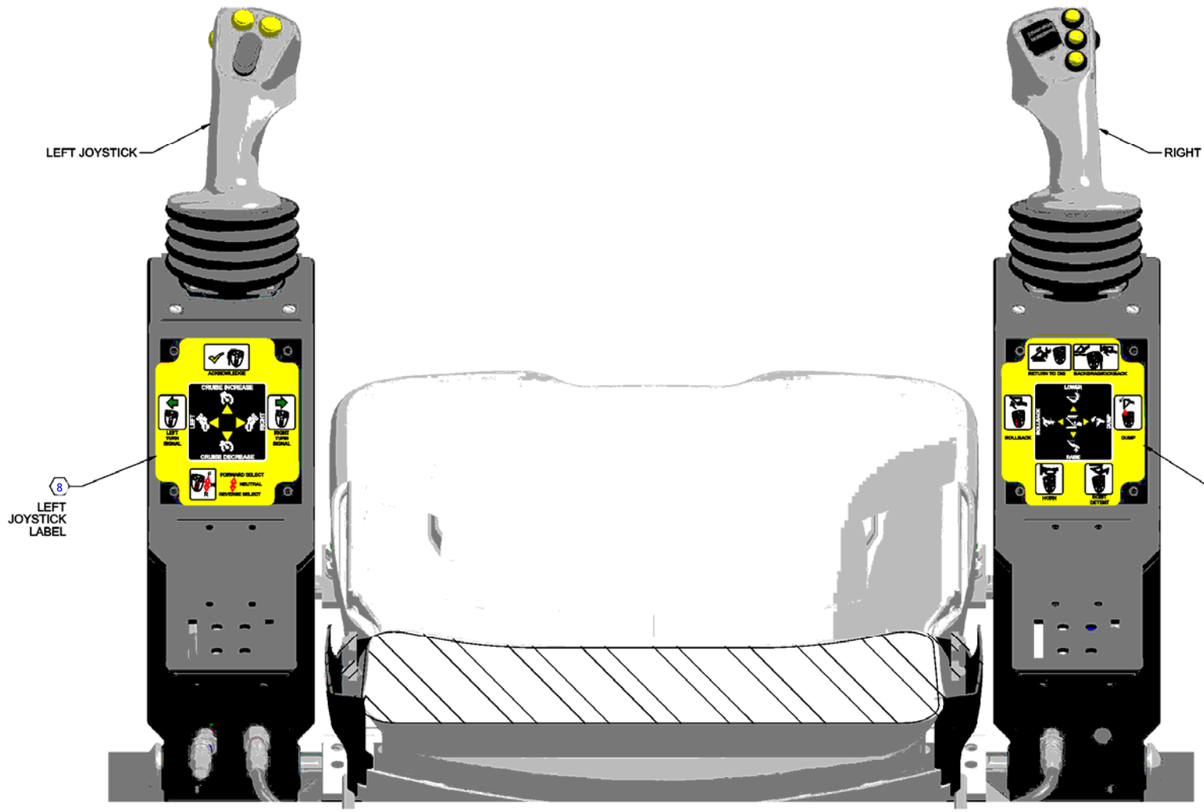
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CAB SAFETY LABEL GROUP G2



VIEW B-B



VIEW C-C
ROTATED 35° CW

G2 LOADER - CAB LABELS

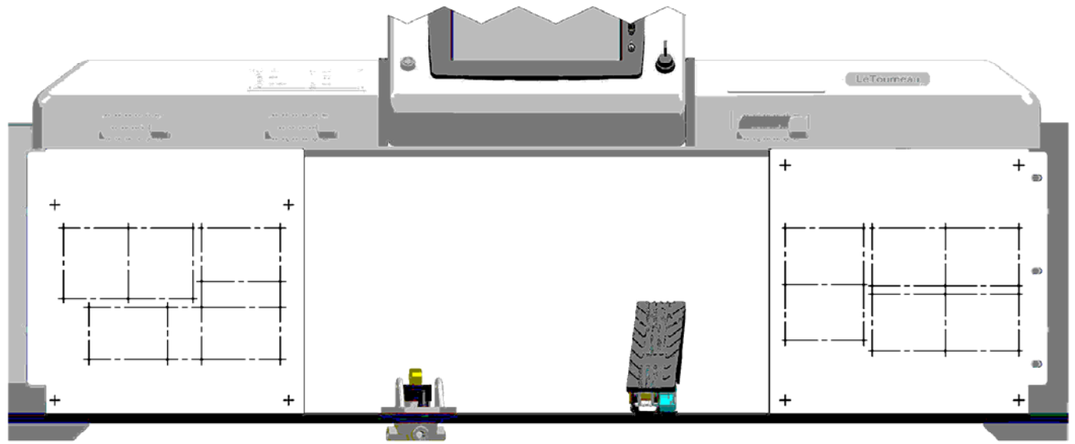
ITEM	QTY	DESCRIPTION	ENGLISH	SPANISH	PORTUGUESE	FRENCH	CHINESE	RUSSIAN	TURKISH	SWEDISH
1	1	Caution Braking Note Stainless	427-1852	427-1925	427-1905	427-5240	427-1873	427-5320	427-9600	429-9326
2	1	Warning Park Brakes Stainless	427-1853	427-1926	427-1906	427-5241	427-1874	427-5321	427-9601	429-9327
3	1	Warning Cab Stainless	427-1854	427-1927	427-1907	427-5242	427-1875	427-5322	427-9602	429-9328
4	1	Caution Starting Stainless	427-1855	427-1928	427-1908	427-5243	427-1876	427-5323	427-9603	429-9329
5	1	Warning Crush Hazard Stainless	427-1856	427-1929	427-1909	427-5244	427-1877	427-5324	427-9604	429-9330
6	1	Warning Hazardous Fumes Stainless	427-1872	427-1944	427-1924	427-5245	427-1892	427-5325	427-9605	429-9331
7	1	Grade Plate - G2 Loader Stainless	SEE CHART ON SHEET-1: PART NOs. FOR MULTIPLE LOADER MODELS and MULTIPLE LANGUAGES							
8	1	G2 Loader Joystick Label With Icons	427-9632	427-9634	427-9635	427-9636	427-9637	427-9638	427-9633	429-9334
9	36	Screw #6-32 UNC x 3/32 PH Stainless	427-7145 (Typical Label Mounting For ITEMS 1 - 7)							
10	1	Cab Dash Label With Icons Stainless	427-9667	427-9668	427-9669	427-9670	427-9671	427-9672	427-9673	429-9332
11	4	POP Rivet 1/8 x 3/16	408-1112 (Typical Label Mounting For ITEM 10)							
12	1	Keypad Label With Icons Stainless	427-9660	427-9661	427-9662	427-9663	427-9664	427-9665	427-9666	429-9333
13	6	POP Rivet 1/8 x 1/2	417-1085 (Typical Label Mounting For ITEM 12)							
14	1	LETOURNEAU TAG	429-2621							

05

INSTALLATION G2 CAB LABELS		SIZE D	DO NOT SCALE	DWG NO. 4277130	REV 05
DRAWN flovett		SCALE 1/8	EST WT 10035.9 lbm	SHEET 2 OF 4	
ISSUED 3-27-2012					

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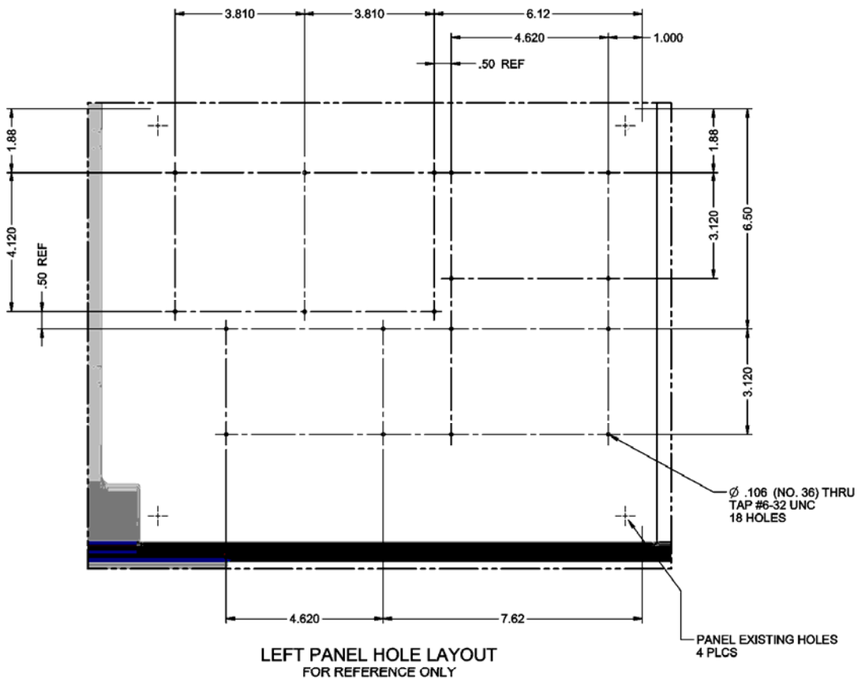


LEFT PANEL HOLE LAYOUT

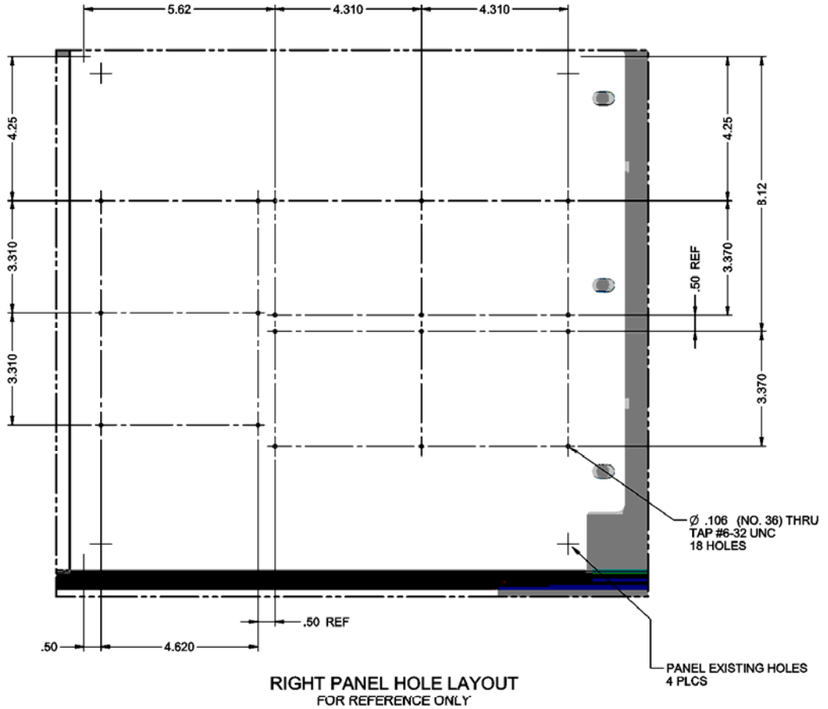
RIGHT PANEL HOLE LAYOUT

CAB CONSOLE PANEL - MOUNT HOLES FOR LABELS

PANEL COLOR OMITTED FOR HOLES CLARITY



LEFT PANEL HOLE LAYOUT
FOR REFERENCE ONLY



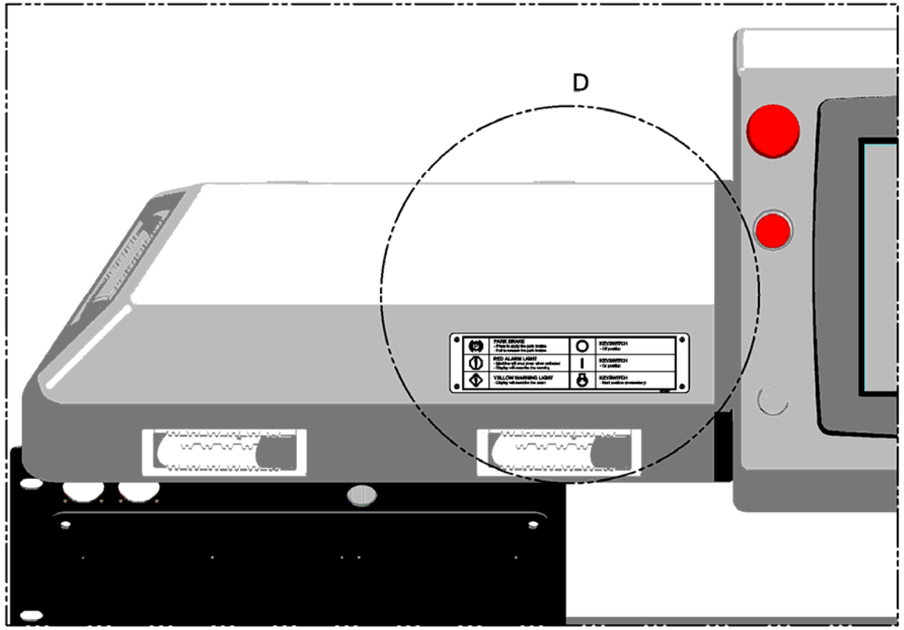
RIGHT PANEL HOLE LAYOUT
FOR REFERENCE ONLY

INSTALLATION G2 CAB LABELS					
DRAWN flovett	SIZE D	DO NOT SCALE	DWG NO. 4277130	REV 05	
ISSUED 3-27-2012	SCALE 1/8	EST WT 10035.9 lbm	SHEET 3 OF 4		

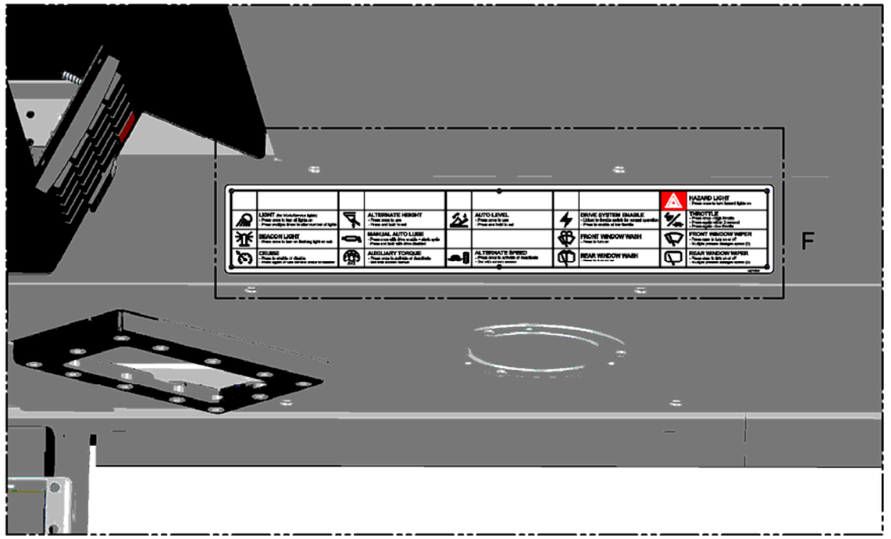
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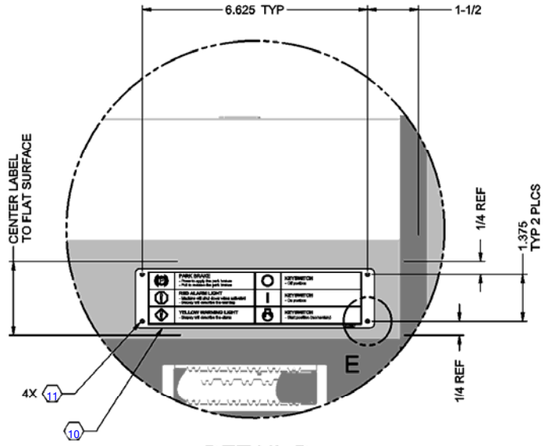
CAB SAFETY LABEL GROUP G2



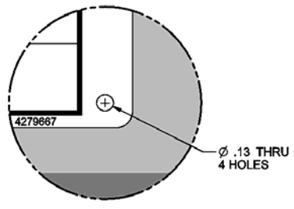
DASH LABEL



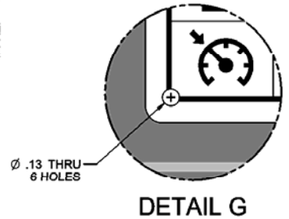
KEYPAD LABEL



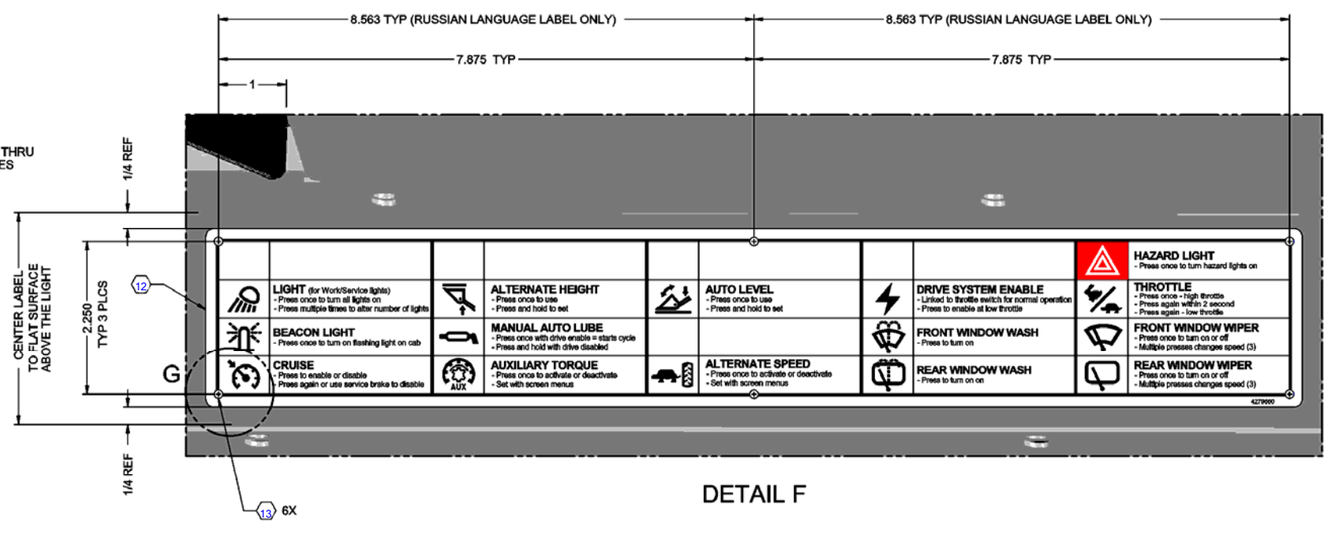
DETAIL D



DETAIL E



DETAIL G



DETAIL F

INSTALLATION G2 CAB LABELS			SIZE D	DWG NO. 4277130 REV 05
DRAWN flovett			DO NOT SCALE	
ISSUED 3-27-2012			SCALE 1/8	WT 10035.9 lbm SHEET 4 OF 4

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CAB SAFETY LABEL GROUP G2

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4277102		CAB SAFETY LABEL GROUP		
1	R4271852	1	· LABEL, SAFETY - BRAKING NOTE - S.S.		
2	R4271853	1	· LABEL, SAFETY - PARK BRAKE - S.S.		
3	R4271854	1	· LABEL, SAFETY - LEAVING CAB - S.S.		
4	R4271855	1	· LABEL, SAFETY - BEFORE STARTING ENGINE - S.S.		
5	R4271856	1	· LABEL, SAFETY - CRUSH HAZARD - S.S.		
6	R4271872	1	· LABEL, SAFETY - HAZARDOUS FUMES - S.S.		
7	R4271964	1	· GRADE PLATE - L-1350 - S.S.		
8	R4279632	1	· LABEL, LOADER JOYSTICK FUNCTION - LEFT AND RIGHT		
9	R4277145	36	· SCREW, #6-32 X 3/32", S.S.		
10	R4279667	1	· LABEL, DASH - ICONS - S.S.		
11	R4081112	4	· RIVET, 1/8" X 3/16"		
12	R4279660	1	· LABEL, KEYPAD - ICONS - S.S.		
13	R4171085	6	· RIVET, 1/8" X 1/2"		
14	R4292621	1	· LABEL, LETOURNEAU NAME - 1" X 5"		
	R4277130	REF	DRAWING, CAB SAFETY LABEL GROUP G2 (427713005)		

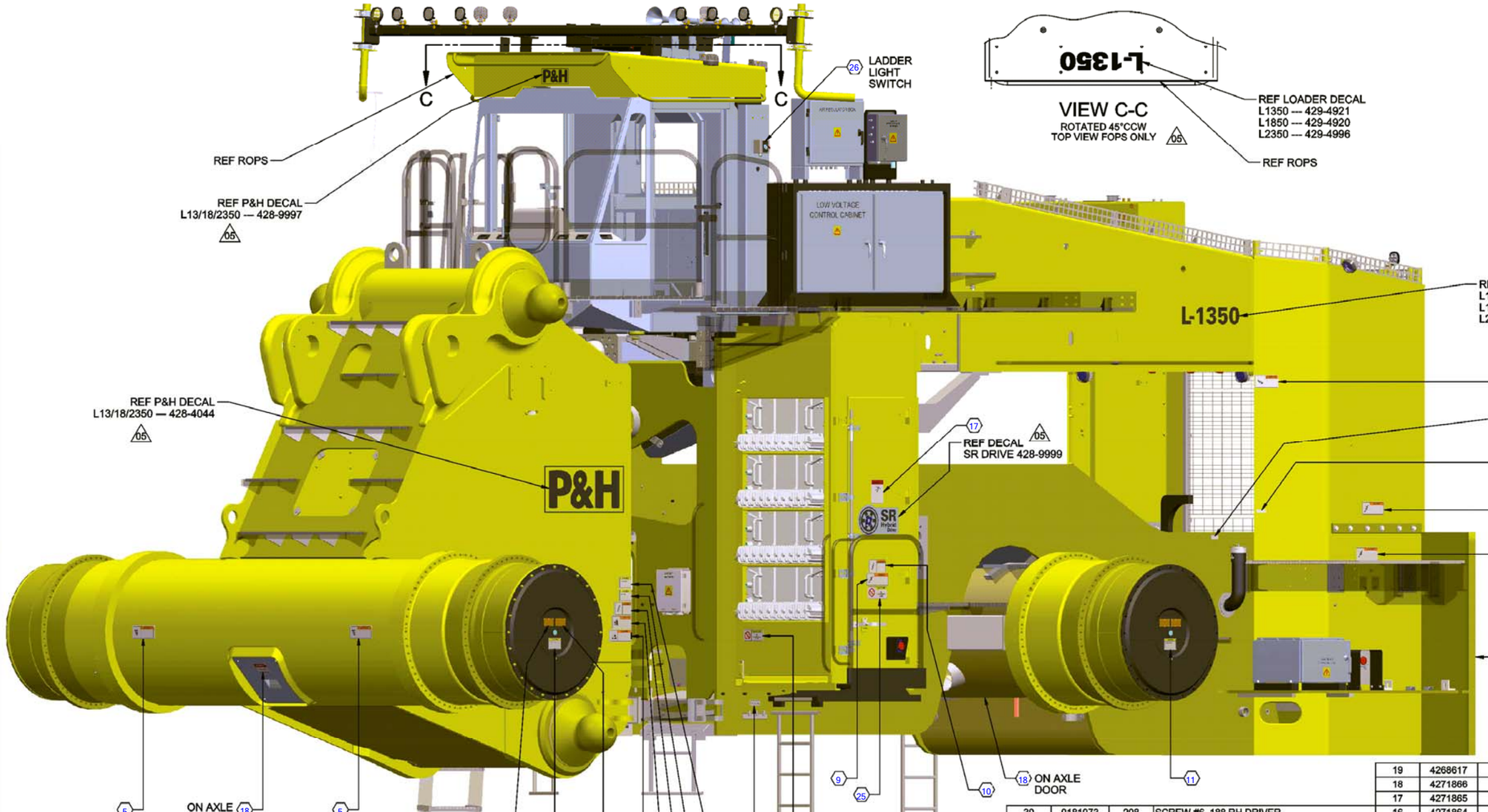
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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IDENTIFICATION AND SAFETY LABEL GROUP



ITEM	PART NO.	QTY	DESCRIPTION
30	0181073	208	SCREW #6 .188 RH DRIVER
29	4266616	REF	TAG LUBRICATION SHC 220 ENG
28	4233984	REF	TAG LUBRICATION SHC 460 ENG
27	4265036	REF	LABEL LUBE CYCLE SW
26	4265034	REF	LABEL LADDER LIGHT SW
25	4277093	3	CAUTION NO HI PRESS WASH ENG SS
24	4271971	REF	LABEL AIR RSVR RBRK KLENZ ENG SS
23	4271972	REF	LABEL AIR RSVR F/R BRK ENG SS
22	4271973	REF	LABEL AIR RSVR FBRK ENG SS
21	4271867	1	CAUTION WELDING PREC ENG SS
20	4271871	1	WARNING LOUD NOISE ENG SS

ITEM	PART NO.	QTY	DESCRIPTION
19	4268617	1	LABEL ELECTRICS SS
18	4271866	2	DANGER HIGH VOLTAGE ENG SS
17	4271865	3	DANGER ELECTRICS ENG SS
16	4271864	1	LABEL HYDRAULIC OIL ENG SS
15	4271863	1	LABEL DIESEL FUEL ENG SS
14	4271860	2	WARNING HI PRESS HOSES ENG SS
13	4271870	2	CAUTION PUMP PRIMING ENG SS
12	4271861	2	WARNING NO ROOM ENG SS
11	4271869	6	CAUTION CHECK OIL LEVEL ENG SS
10	4271862	3	WARNING RETRACT LADDER ENG SS
9	4271859	4	WARNING FALLING HAZARD ENG SS
8	4271858	2	WARNING ROTATING FAN ENG SS
7	4271857	1	WARNING HOT ENGINE COOL ENG SS
5	4271856	4	WARNING CRUSH HAZARD ENG SS

NOTE:
SHEET 3 - G2 LOADER LABEL GROUPS CHART SHOWS LABEL PN FOR OTHER LANGUAGES.

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- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO
LINCS II LOADERS

		DATE
DWN	flovett	6-18-10
CHK	BAS	6-23-10
ENGR		
PROD ENGR	BS	6-23-10
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP G2 LOADER LABELS ENG

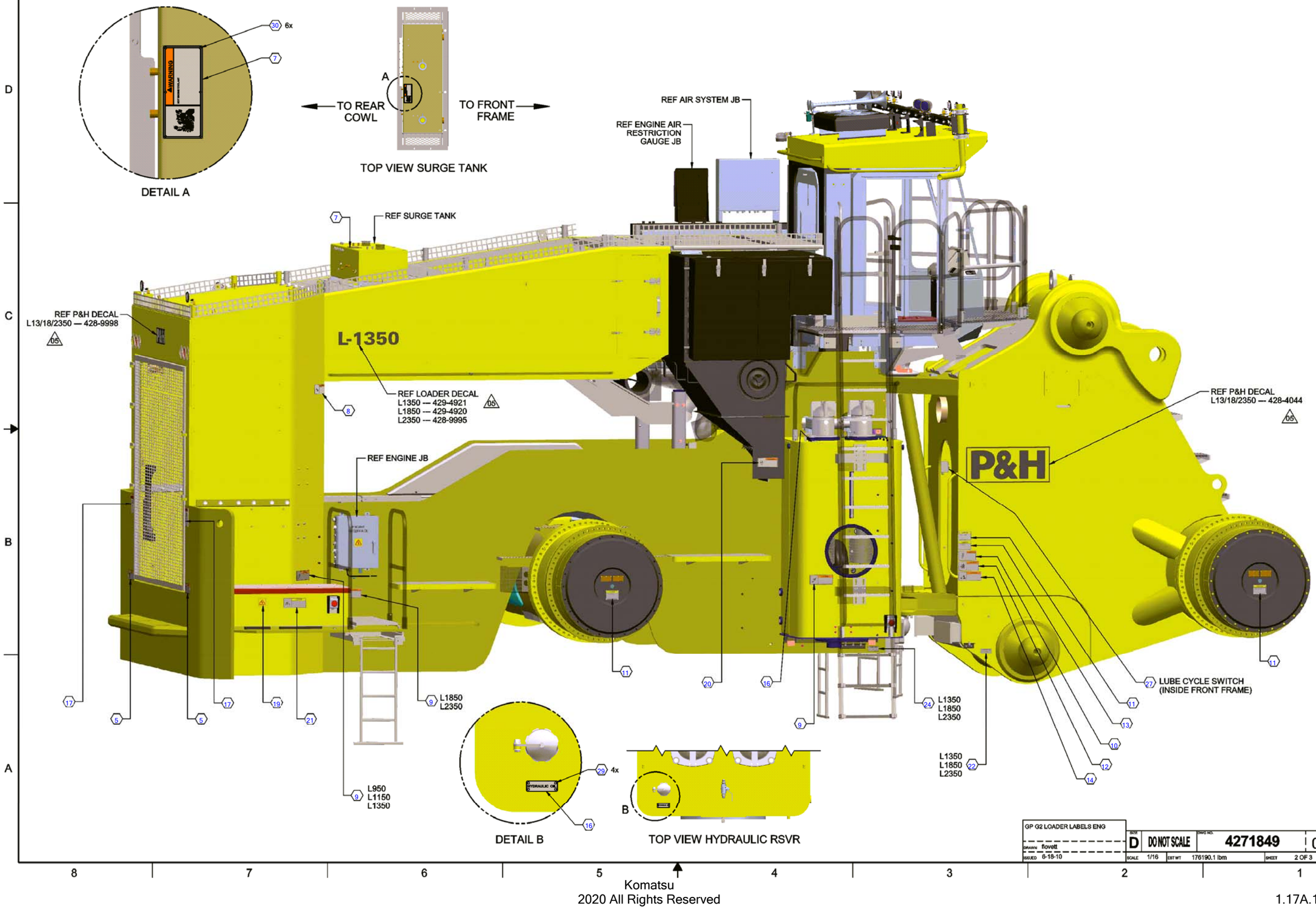
SIZE D | DO NOT SCALE | DWG NO. 4271849 | REV 05

SCALE 1/16 | EST WT 176190.1 lbm | SHEET 1 OF 3

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IDENTIFICATION AND SAFETY LABEL GROUP



GP G2 LOADER LABELS ENG						
DRAWN flovett	SIZE D	DO NOT SCALE	DWG NO. 4271849	REV 05		
ISSUED 6-18-10	SCALE 1/16	EST WT 176190.1 lbm	SHEET 2 OF 3			

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G2 LOADER --- LABEL GROUPS

ITEM	ENGLISH LABELS QTY	FOREIGN LANGUAGE LABELS QTY	DESCRIPTION (LABEL STAINLESS)	GP LABELS (427-1849) ENGLISH	GP LABELS (427-1899) SPANISH	GP LABELS (427-1898) PORTUGUESE	GP LABELS (427-2001) FRENCH	GP LABELS (427-1851) CHINESE	GP LABELS (427-5299) RUSSIAN	GP LABELS (427-7221) TURKISH	GP LABELS (429-5919) SWEDISH
5	4	4	Label Warning Crush Hazard	427-1856	427-1929	427-1909	427-5244	427-1877	427-5324	427-9604	429-9330
7	1	1	Label Warning Hot Engine Coolant	427-1857	427-1930	427-1910	427-5246	427-1878	427-5326	427-9609	429-9311
8	2	2	Label Warning Rotating Fan	427-1858	427-1931	427-1911	427-5247	427-1879	427-5327	427-9610	429-9312
9	4	4	Label Warning Falling Hazard	427-1859	427-1932	427-1912	427-5248	427-1880	427-5328	427-9611	429-9313
10	3	3	Label Warning Retract Ladder	427-1862	427-1935	427-1915	427-5249	427-1883	427-5329	427-9612	429-9314
11	6	6	Label Caution Check Oil Level	427-1869	427-1941	427-1921	427-5250	427-1889	427-5330	427-9613	429-9315
12	2	2	Label Warning No Room	427-1861	427-1934	427-1914	427-5251	427-1882	427-5331	427-9614	429-9316
13	2	2	Label Caution Pump Priming	427-1870	427-1942	427-1922	427-5252	427-1890	427-5332	427-9615	429-9317
14	2	2	Label Warning Hi Press Hoses	427-1860	427-1933	427-1913	427-5253	427-1881	427-5333	427-9616	429-9318
15	1	1	Label Diesel Fuel	427-1863	427-1936	427-1916	427-5254	427-1884	427-5334	427-9617	429-9319
16	1	1	Label Hydraulic Oil	427-1864	427-1937	427-1917	427-5255	427-1885	427-5335	427-9618	429-9320
17	3	3	Label Danger Electrics	427-1865	427-1938	427-1918	427-5256	427-1886	427-5336	427-9619	429-9321
18	2	2	Label Danger 750 Volts	427-1866	427-1939	427-1919	427-5257	427-1887	427-5337	427-9620	429-9322
19	1	1	Label Electrical	426-8617	426-8617	426-8617	426-8617	426-8617	426-8617	426-8617	426-8617
20	1	1	Label Warning Loud Noise	427-1871	427-1943	427-1923	427-5258	427-1891	427-5338	427-9621	429-9323
21	1	1	Label Caution Welding Precaution	427-1867	427-1940	427-1920	427-5259	427-1888	427-5339	427-9622	429-9324
* 22	----	1	Label Air RSVR Front Brake (L11/13/18/2350)	427-1973 (REF)	427-5272	427-1979	427-5275	427-1976	427-5318	427-7227	429-9338
* 23	----	----	Label Air RSVR F/R Brake (L950/1150 only)	427-1972 (REF)	427-5271 (REF)	427-1978 (REF)	427-5274 (REF)	427-1975 (REF)	427-5317 (REF)	427-7226 (REF)	---
* 24	----	1	Label Air RSVR Rear Brake Klenz (L11/13/18/2350)	427-1971 (REF)	427-5270	427-1977	427-5273	427-1974	427-5316	427-7225	429-9339
25	3	3	Label Caution No High Press Wash	427-7093	427-7094	427-7095	427-7096	427-7097	427-7092	427-9623	429-9325
26	----	1	Label Ladder Light Switch - Brady (Box Assy 426-5033)	426-5034 (REF)	427-1947	427-1945	427-2006	427-1895	427-7098	427-9624	429-5924
27	----	1	Label Lube Cycle Switch - Brady (Box Assy 426-5035)	426-5036 (REF)	427-1948	427-1946	427-2007	427-1894	427-7099	427-9625	429-5925
28	----	4	TAG LUBRICATION SHC 460 (L11/13/18/2350)	423-3984 (REF)	425-5336	425-5466	427-5277	427-1893	427-5305	427-9627	429-5926
29	----	----	TAG LUBRICATION SHC 220 (L950 only)	426-6616 (REF)	427-1904 (REF)	427-1843 (REF)	427-5276 (REF)	426-5149 (REF)	427-5304 (REF)	427-9626 (REF)	----
30	208	240	SCREW #6 .188 RH DRIVER	018-1073	018-1073	018-1073	018-1073	018-1073	018-1073	018-1073	018-1073

* ITEMS 22 - 24ENGLISH LABELS INCLUDED IN GROUPS:
[illegible]-- GROUP AIR RSVR BLEED L[illegible] ENG
[illegible]-- GROUP AIR RSVR BLEED L[illegible] ENG

GP G2 LOADER LABELS ENG
DRAWN flovett
ISSUED 6-18-10
SIZE D DO NOT SCALE
DWG NO. 4271849
REV 05
SCALE 1/16 EST WT 176190.1 lbm SHEET 3 OF 3

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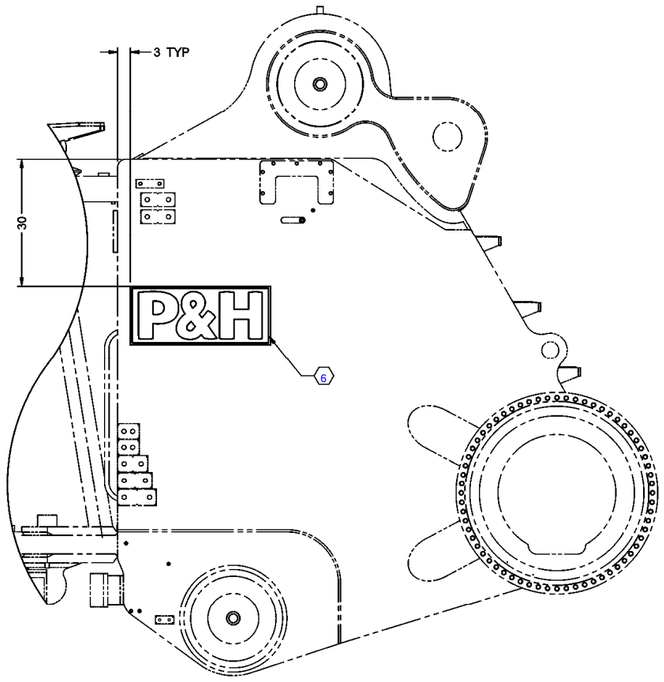
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4266326		IDENTIFICATION AND SAFETY LABEL GROUP (-1)		8/23/19
	R4271849		· LABEL GROUP, LOADER		
1	N.P.N.		· · NOT USED		
2	N.P.N.		· · NOT USED		
3	N.P.N.		· · NOT USED		
4	N.P.N.		· · NOT USED		
5	R4271856	4	· · LABEL, SAFETY - CRUSH HAZARD - S.S.		
6	N.P.N.		· · NOT USED		
7	R4271857	1	· · LABEL, SAFETY - STEAM HAZARD - S.S.		
8	R4271858	2	· · LABEL, SAFETY - ROTATING FAN - S.S.		
9	R4271859	4	· · LABEL, SAFETY - FALLING HAZARD - S.S.		
10	R4271862	3	· · LABEL, SAFETY - LOWER STEP SLOWLY - S.S.		
11	R4271869	6	· · LABEL, CAUTION - CHECK OIL LEVELS - S.S.		
12	R4271861	2	· · LABEL, SAFETY - NO ROOM - S.S.		
13	R4271870	2	· · LABEL, SAFETY - PUMP PRIMING - S.S.		
14	R4271860	2	· · LABEL, SAFETY - HIGH PRESSURE HOSE - S.S.		
15	R4271863	1	· · LABEL, DIESEL FUEL - S.S.		
16	R4271864	1	· · LABEL, HYDRAULIC OIL - S.S.		
17	R4271865	3	· · LABEL, SAFETY - DANGER HIGH VOLTAGE - S.S.		
18	R4271866	2	· · LABEL, SAFETY - DANGER 750 VOLTS - S.S.		
19	R4268617	1	· · LABEL, SAFETY - HIGH VOLTAGE, INTERNATIONAL SYMBOL - S.S.		
20	R4271871	1	· · LABEL, SAFETY - LOUD NOISE - S.S.		
21	R4271867	1	· · LABEL, CAUTION - WELDING PRECAUTION - S.S.		
22	R4271973	1	· LABEL, AIR RESERVOIR BLEED - FRONT BRAKE - S.S.		
23	R4271972	1	· LABEL, AIR RESERVOIR BLEED - DISTRIBUTION/FRONT BRAKE/REAR BRAKE - S.S.		
24	R4271971	1	· LABEL, AIR RESERVOIR BLEED - DISTRIBUTION/REAR BRAKE/ KLENZ - S.S.		
25	R4277093	3	· LABEL, CAUTION - NO HIGH PRESSURE WASH - S.S.		
26	R4265034	1	· LABEL, LADDER LIGHT SWITCH BOX		
27	R4265036	1	· LABEL, LUBE CYCLE SWITCH BOX		
28	R4233984	4	· PLATE, LUBRICANT IDENTIFICATION - SHC 460		
29	R4266616	REF	· PLATE, LUBRICANT IDENTIFICATION - SHC 220 - L-950 ONLY		
30	R0181073	208	· SCREW, DRIVE - #6 X 3/16"		
			·		
	R4289442	1	· PLATE, MODEL/SERIAL NUMBER		
	R4285709	1	· PLATE, TIRE DATA		
	R4287640	1	· PLATE, ROLL BAR APPROVAL		
		REF	DRAWING, LABEL GROUP (R427184905)		8/23/19

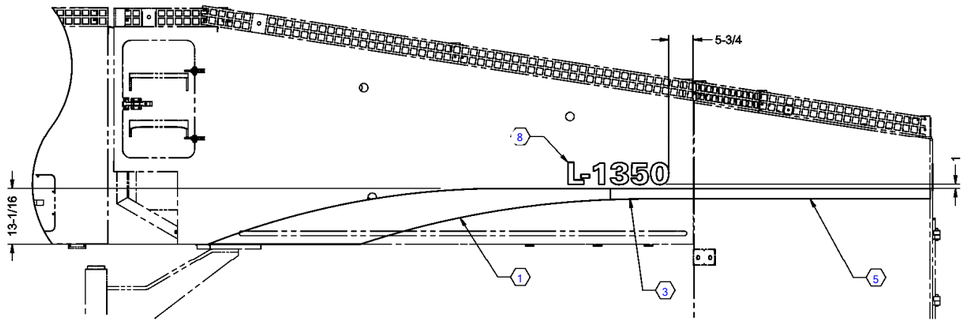
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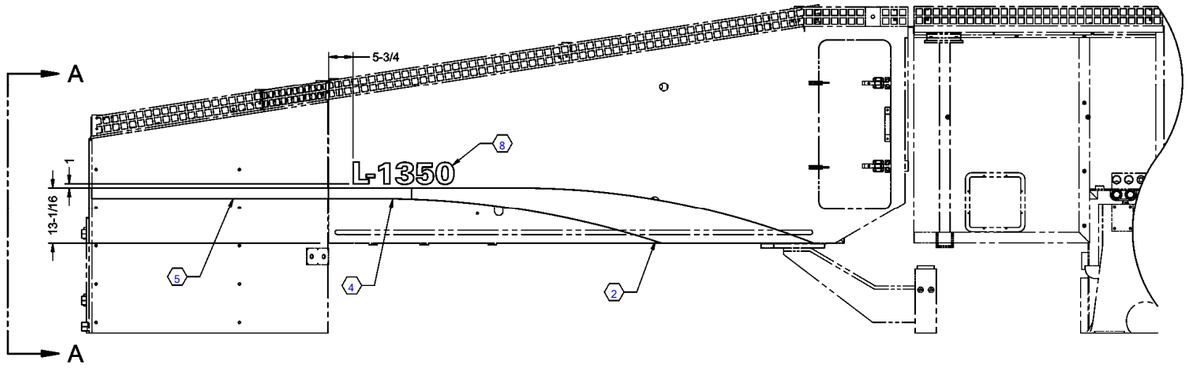
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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ITEM	PART NO.	QTY	DESCRIPTION
11	4289997	1	P&H STICKER 11.25
10	4289998	1	P&H STICKER 15.50
9	4289999	1	DECAL SR DRIVE
8	4294921	3	DECAL L1350
6	4284044	2	P&H STICKER 33.00
5	4278698	2	DECAL REAR SWOOSH L2350
4	4278665	1	DECAL MID SWOOSH RH
3	4278664	1	DECAL MID SWOOSH LH
2	4278699	1	DECAL RH FRONT SWOOSH
1	4278697	1	DECAL LH FRONT SWOOSH

NOTES:

1. ITEMS 3, 4, 5 MAY BE TRIMMED TO FIT.

IF FIRE SUPPRESSION IS TO BE MOUNTED, DECALS CAN BE CUT TO ALLOW ACCESS TO MOUNTING HOLES.

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INTERPRET DIM & TOL. PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
L-1350

	DATE
DWN	1/8/18
CHK	1/8/18
ENGR	1/8/18
PROD ENGR	
PROJ APPROVAL	
MATL	

KOMATSU

GP DECAL L1350 KOM

SIZE D | DO NOT SCALE | DWG NO. 4289992 | REV 03

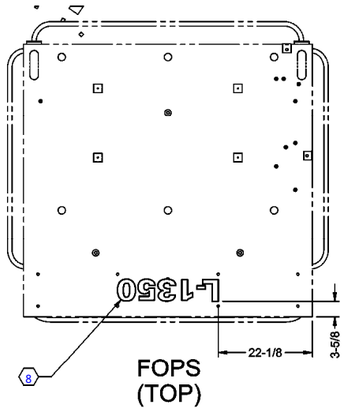
SCALE 1/16 | EST WT 41.8 lbm | SHEET 1 OF 2

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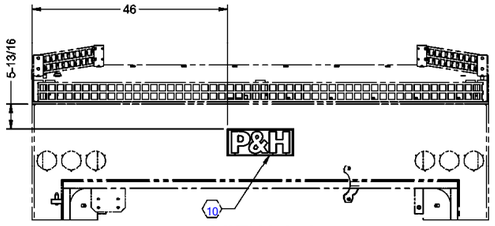
IDENTIFICATION DECAL GROUP

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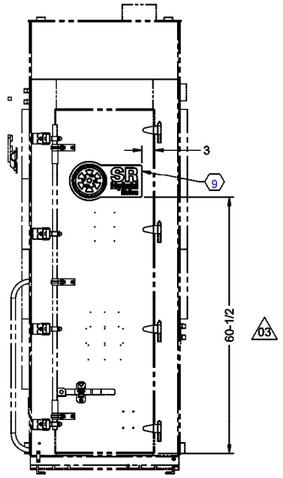
IDENTIFICATION DECAL GROUP

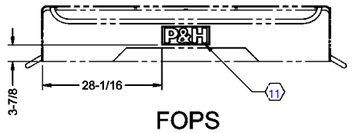


FOPS
(TOP)



VIEW A-A





FOPS
(FRONT)

GP DECAL L1350 KOM		SIZE D	DO NOT SCALE	DWG NO. 4289992	REV 03
DRAWN					
ISSUED 1/8/18		SCALE 1/16	EST WT 41.8 lbm	SHEET 2 OF 2	

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IDENTIFICATION DECAL GROUP

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IDENTIFICATION DECAL GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289992		IDENTIFICATION DECAL GROUP		6/19/19
1	R4278697	1	· DECAL, FRONT SWOOSH L.H.		
2	R4278699	1	· DECAL, FRONT SWOOSH R.H.		
3	R4278664	1	· DECAL, MIDDLE SWOOSH L.H.		
4	R4278665	1	· DECAL, MIDDLE SWOOSH R.H.		
5	R4278698	2	· DECAL, REAR SWOOSH		
6	R4284044	2	· DECAL, P&H - 33"X 14"		
7	N.P.N.		· NOT USED		
8	R4294921	3	· DECAL, L-1350		
9	R4289999	1	· DECAL, SR DRIVE		
10	R4289998	1	· DECAL, P&H - 15-1/2" X 6-1/4"		
11	R4289997	1	· DECAL, P&H - 11-1/4" X 4-1/2"		
		REF	DRAWING, IDENTIFICATION DECAL GROUP (R428999203)		6/19/19

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4274800			PAINT GROUP		6/7/13
1	R4264671	10	GL	· PAINT, WHITE LET		
2	R4274797	120	GL	· PAINT, YELLOW P&H		
3	R4274798	50	GL	· PAINT, FLAT BLACK P&H		
4	R4264676	150	GL	· PRIMER, SHALE GRAY		
5	R4274799	25	GL	· PAINT, GLOSS BLACK P&H		
6	R4098192	2	GL	· COATING, NON SKID		6/7/13

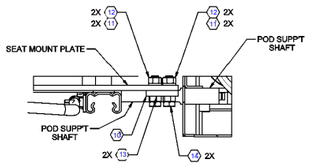
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

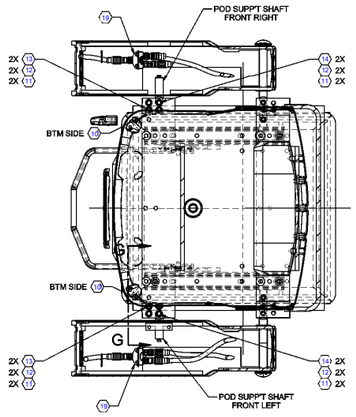
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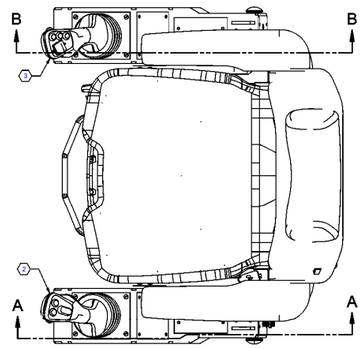
OPERATOR'S SEAT ASSEMBLY



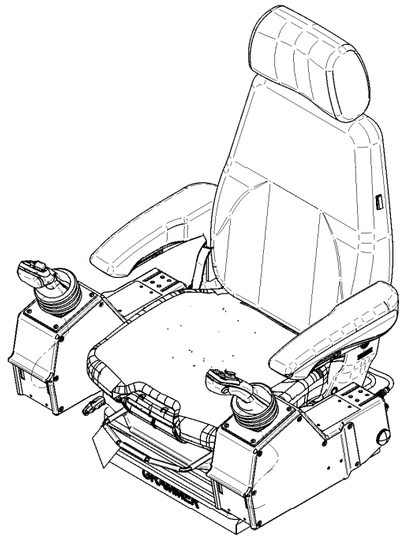
SECTION G-G
1:2
ROTATED 90 DEG CW



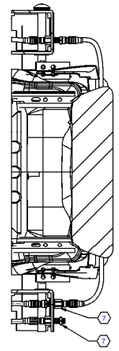
SECTION F-F



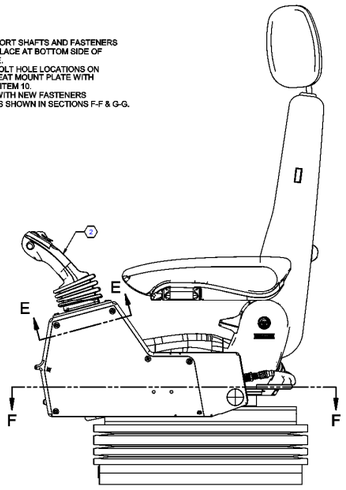
NOTES:
1. REMOVE POD SUPPORT SHAFTS AND FASTENERS AT CONSOLE AND PLACE AT BOTTOM SIDE OF SEAT MOUNT PLATE.
2. LOCATE AT SAME BOLT HOLE LOCATIONS ON BOTTOM SIDE OF SEAT MOUNT PLATE WITH NEW STOP PLATES ITEM 10.
3. SECURE IN PLACE WITH NEW FASTENERS ITEMS 11,12,13,14 AS SHOWN IN SECTIONS F-F & G-G.

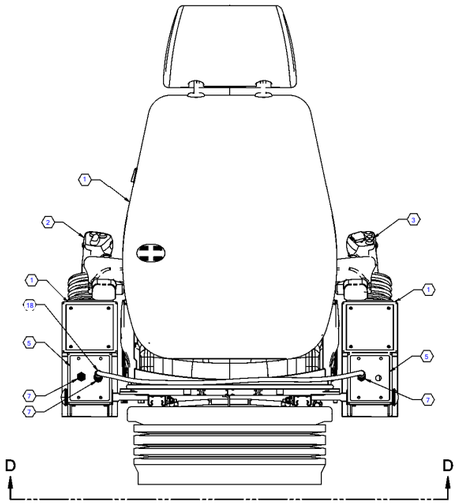


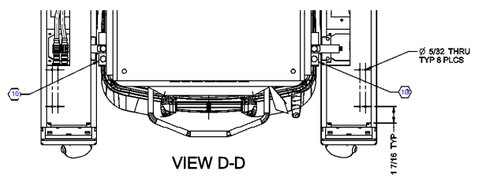
ISOMETRIC VIEW



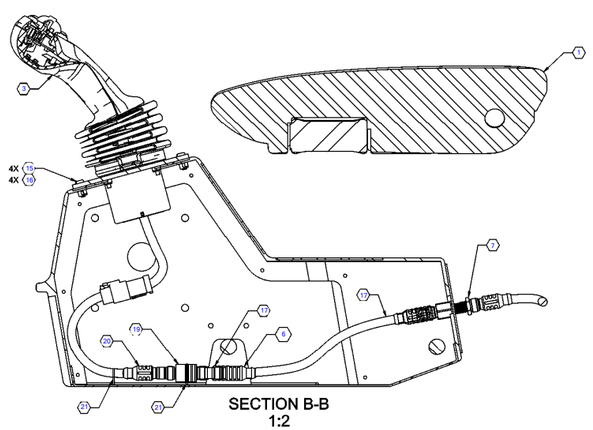
SECTION C-C
ROTATED 10° CW



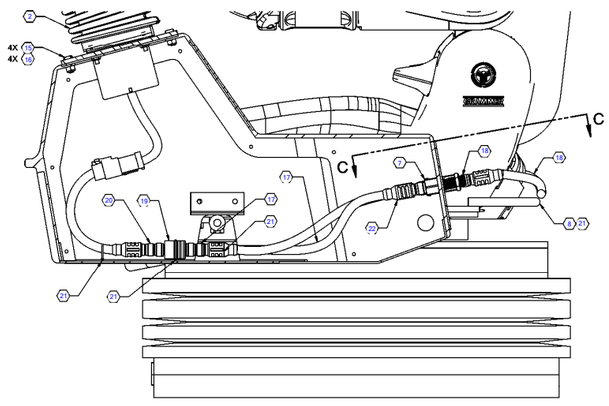




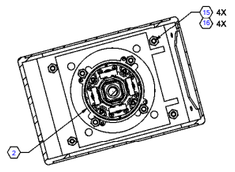
VIEW D-D



SECTION B-B
1:2



SECTION A-A
1:2



SECTION E-E
1:2

ITEM	PART NO.	QTY	DESCRIPTION
22	4266246	1	CABLE EXT CAN 0.5M
21	4016725	8	CABLE TIE 4 INCH BENT TIP/BLK
20	4267776	2	CABLE JOYSTICK LINCS II
19	4286130	2	CAN Y MALE - 2 FEM TURCK
18	4266247	1	CABLE EXT CAN 0.6M
17	4266245	2	CABLE EXT CAN 0.3M
16	4105857	8	LOCKNUT 10-32 UNF SS
15	4105624	8	M/SCR PH #10-32-2A UNF X 5/8LG SS
14	0824753	4	BOLT HX .313 1.250 NC G8 FT
13	4009826	4	BOLT HX .313 1.000 NC G8 FT
12	0821687	8	NUT HX .313 NC G8 PL
11	4105727	8	WASHER, SPLITLOCK 5/16 STAINLESS STEEL
10	4286057	2	PLATE DRILLED SEAT ADJUST
8	4265767	1	STR SEAT HARNESS SUPPORT
7	4266255	3	RCPT CAN FEED THRU
6	4266254	1	CABLE CAN MALE TERM
5	4265757	2	PLATE SEAT POD CONNECTOR MNT
3	4280429	1	ASSY JOYSTICK RIGHT HAND, ANGLED
2	4289428	1	ASSY JOYSTICK LEFT HAND, ANGLED
1	4264105	1	SEAT GRAMMER 12000481LTI

07

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INTERPRET DIM & TOL PER LETOURNEAU SPEC: 9000.04

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, .XX DECIMAL ±.03, .XXX DECIMAL ±.015
- MACHINED CORNERS .18M X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO
4280591

DWN	miller	10-27-08
CHK	RWD	10-27-08
ENGR		
PROD ENGR	ML	10-27-08
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY SEAT LINCS II

SIZE E | DO NOT SCALE | DWG NO. 4267775 | REV 07

SCALE 1/4 | WEIGHT 0.0 lbm | SHEET 1 OF 1

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OPERATOR'S SEAT ASSEMBLY

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OPERATOR'S SEAT ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4267775		OPERATOR'S SEAT ASSEMBLY - LINCS II		9/30/19
1	R4264105	1	· SEAT, AIR SUSPENSION		
	R4267779	1	· · SEAT BELT - 4-POINT HARNESS		
	R4238113	REF	· · SEAT BELT - RETRACTABLE (OPTIONAL)		4/5/18
	R4289065	REF	· · SEAT BELT - 4-POINT HARNESS WITH STERNUM STRAP (OPTIONAL)		9/30/19
	R4268391	1	· · POD MOUNTING KIT		
	R4268392	1	· · POD, SEAT - R.H.		
	R4268393	1	· · POD, SEAT - L.H.		
	R4265170	1	· · AIR SUSPENSION ASSEMBLY - WITHOUT SEAT		
	R4265171	1	· · SEAT ASSEMBLY WITH PODS AND HARNESS - WITHOUT SUSPENSION		
	R4255430	1	· · LIMIT SWITCH KIT, SPDT - SEAT POD		7/21/11
	R4264101	1	· · SLIDE RAIL SET, SINGLE LOCKING		7/21/11
	R4264102	1	· · DAMPER, GAS		7/21/11
	R4270193	1	· · SHOCK ABSORBER KIT, SUSPENSION		7/21/11
	R4240562	1	· · SLIDE ASSEMBLY, SEAT		7/21/11
	R4252655	1	· · ARM REST, L.H.		7/21/11
	R4252656	1	· · ARM REST, R.H.		7/21/11
	R4270184	1	· · BACKREST PAN		7/21/11
	R4267226	1	· · LEVER		7/21/11
	R4267227	1	· · HANDLE KIT		7/21/11
	R4268393	1	· · POD, SEAT - L.H.		7/21/11
	R4268392	1	· · POD, SEAT - R.H.		7/21/11
	R4268391	1	· · POD MOUNTING KIT		7/21/11
	R4252646	1	· · SEAT ARM SUPPORT KIT		7/21/11
	R4270191	1	· · COVER, L.H.		7/21/11
	R4270192	1	· · COVER, R.H.		7/21/11
	R4274422	1	· · HANDLE, CONTROL		7/21/11
2	R4289428	1	· JOYSTICK ASSEMBLY, ANGLED - L.H.		7/16/18
	R4289426	1	· · JOYSTICK, ANGLED - L.H.		7/16/18
	R4282867	1	· · ADAPTER PLATE, JOYSTICK		7/16/18
3	R4289429	1	· JOYSTICK ASSEMBLY, ANGLED - R.H.		7/16/18
	R4289427	1	· · JOYSTICK, ANGLED - R.H.		7/16/18
	R4282867	1	· · ADAPTER PLATE, JOYSTICK		7/16/18
4	N.P.N.		· NOT USED		3/8/17
5	R4265757	2	· MOUNT PLATE, SEAT POD CONNECTOR		
6	R4266254	1	· CABLE, CAN - MALE		
7	R4266255	3	· RECEPTACLE, CAN FEED THRU		
8	R4265767	1	· SUPPORT STRUCTURE, SEAT HARNESS		
9	N.P.N.		· NOT USED		3/8/17
10	R4286057	2	· SEAT ADJUSTMENT PLATE, DRILLED		3/8/17
11	R4105727	8	· LOCKWASHER, 5/16" - S.S.		3/8/17
12	R0821687	8	· NUT, 5/16"-18		3/8/17
13	R4009626	4	· BOLT, 5/16"-18 X 1"		3/8/17
14	R0824753	4	· BOLT, 5/16"-18 X 1-1/4"		3/8/17
15	R4105624	8	· SCREW, #10-32 X 5/8" - S.S.		7/16/18
16	R4105657	8	· LOCKNUT, #10-32 - S.S., NYLON		7/16/18
17	R4266245	2	· CABLE EXTENSION, CAN .3M		3/16/11
18	R4266247	1	· CABLE EXTENSION, CAN .8M		3/16/11
19	R4286130	2	· CABLE Y, CAN - 1 MALE - 2 FEMALE - TURCK		7/16/18
20	R4267776	2	· CABLE, JOYSTICK - LINCS II		3/16/11
21	R4018725	8	· CABLE TIE, 4" - BENT TIP/BLACK		3/16/11
22	R4266246	1	· CABLE EXTENSION, CAN .5M		3/16/11
	R4279632	REF	LABEL, LOADER JOYSTICK FUNCTION - LEFT AND RIGHT	1	6/7/13
	R4271902	REF	LABEL, LOADER JOYSTICK FUNCTION - LEFT AND RIGHT - PORTUGUESE	1	3/16/11

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271903	REF	LABEL, LOADER JOYSTICK FUNCTION - LEFT AND RIGHT - SPANISH	1	2/8/12
	R4271845	REF	LABEL, LOADER JOYSTICK FUNCTION - LEFT AND RIGHT - CHINESE	1	3/16/11
	R4275279	REF	LABEL, LOADER JOYSTICK FUNCTION - LEFT AND RIGHT - FRENCH	1	4/25/13
	R4275310	REF	LABEL, LOADER JOYSTICK FUNCTION - LEFT AND RIGHT - RUSSIAN	1	6/6/12
	R4279633	REF	LABEL, LOADER JOYSTICK FUNCTION - LEFT AND RIGHT - TURKISH	1	6/7/13
		REF	DRAWING, OPERATOR'S SEAT ASSEMBLY (R426777507)		7/16/18

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L-1350-2302 PARTS MANUAL
Power Unit Components

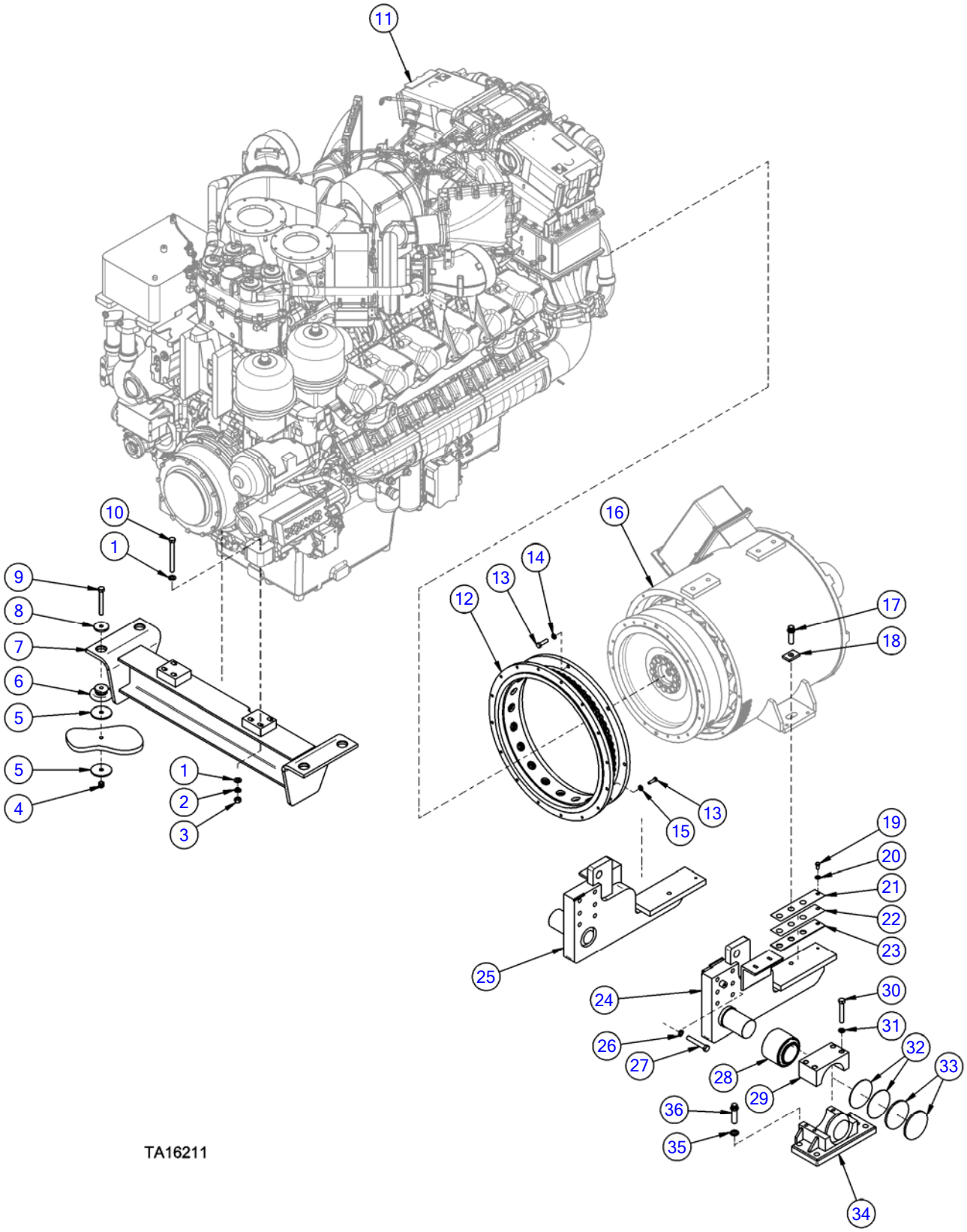
SECTION OR GROUP TITLE
POWER UNIT INSTALLATION
BLOWER AND AIR CLEANER ASSEMBLY
FUEL SYSTEM
EXHAUST SYSTEM
EXHAUST SYSTEM
RADIATOR MOUNT GROUP
RADIATOR PIPING
SURGE TANK HARDWARE GROUP
SURGE TANK FILL LINES GROUP
SURGE TANK VENT LINES GROUP
ENGINE AIR INTAKE
HYDRAULIC GEARBOX ASSEMBLY
GEARBOX AND DRIVE ADAPTERS ASSEMBLY
HYDRAULIC GEARBOX ASSEMBLY
AIR COMPRESSOR GROUP
HYDRAULIC GEARBOX MOUNT GROUP
DRIVE COMPONENTS - POWER UNIT
BLOWER ASSEMBLY
AIR COOLING SYSTEM
AIR CLEANER SYSTEM
INLET DOOR ASSEMBLY
AIR CLEANER MANIFOLD ASSEMBLY
PULSE VALVE ASSEMBLY
A/C AND HEATER SYSTEM
A/C SYSTEM
A/C COMPRESSOR/MOTOR ASSEMBLY
Komatsu has made effort to make this manual as accurate as possible based on the information available at the time of publication and printing.
Continuous improvement and advancement of product design may cause changes to machines which may not have been included in this publication.
Komatsu reserves the right to make changes and improvements at any time.
To ensure the most current information, please use the Komatsu On-Line Parts Manual Database or contact your service center.
This illustrated Parts Manual is now designed primarily for electronic viewing.
It is best viewed from the DVD or the Komatsu On-Line Parts Manual Database.
In its printed paper version some items in the illustrations may appear small and the reference numbers may be difficult to read.
In a case where a number or view is unreadable you will need to view it electronically and use the zoom feature.
NOTE: Many of the parts for factory-installed optional components are found in Section 9 of the Parts Manual, which is titled MISCELLANEOUS.
It is essential to verify the optional equipment on the machine and check the parts lists in Section 9 prior to ordering parts.
Should there be questions or need for additional information concerning parts for factory-installed options, contact the Komatsu Parts Sales Department before placing an order.

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NONE
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POWER UNIT INSTALLATION



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4287563		POWER UNIT INSTALLATION		
	R4271358	1	· FRONT ENGINE MOUNT GROUP		
1	R4016046	12	· · FLATWASHER, 3/4" X 1-1/2" X 1/8"		
2	R0131167	6	· · LOCKWASHER, 3/4" - HEAVY		
3	R0021528	6	· · NUT, 3/4"-16		
4	R4016031	4	· · LOCKNUT, 3/4"-16 - NYLON		
5	R4102829	8	· · FLATWASHER, 3/4" I.D. X 4-1/4" O.D. X 1/4"		
6	R4082921	4	· · MOUNT, RUBBER - 2400 LBS LOAD RATING		
7	R4271359	1	· · MOUNT STRUCTURE, ENGINE - FRONT		
8	R0711602	4	· · FLATWASHER, 3/4" I.D. X 3" O.D. X 1/4"		
9	R4009833	4	· · BOLT, 3/4"-16 X 6"		
10	R4172139	6	· · BOLT, 3/4"-16 X 7-1/2"		
11	R4287562	REF	· ENGINE, DD - 12V4000, 1600 HP, T4		
	R4262981	REF	· · ELEMENT, FILTER - DD		
	R4271360	1	· ENGINE/GENERATOR ADAPTER GROUP		
12	R4271361	1	· · ADAPTER STRUCTURE, GENERATOR/ENGINE		
13	R4243937	24	· · BOLT, 12 MM X 1.75 X 45		
14	R0131165	16	· · LOCKWASHER, 5/8"		
15	R0021631	8	· · BOLT, 5/8"-11 X 2-1/4"		
16	N.P.N.	REF	· GENERATOR ASSEMBLY, G100 (PAGE 3.1-3.1A)		
	R4287564	1	· ENGINE/GENERATOR MOUNT GROUP		
17	R4001943	2	· · CAPSCREW, 1"-8 X 3"		
18	R4078623	2	· · FLATWASHER, SQUARE - 1-1/16" X 1/4"		
19	R0801180	2	· · BOLT, 1/2"-13 X 1"		
20	R0810991	2	· · FLATWASHER, 1/2" X 1" X 1/8"		
21	R4170912	AR	· · SHIM, .007" X 12-3/4" X 3"		
22	R4170913	AR	· · SHIM, .031" X 12-3/4" X 3"		
23	R4170911	AR	· · SHIM, 3/16" X 12-3/4" X 3"		
24	R4287565	1	· · MOUNT STRUCTURE, ENGINE & GENERATOR - RIGHT SIDE		
25	R4287566	1	· · MOUNT STRUCTURE, ENGINE & GENERATOR - LEFT SIDE		
26	R4269249	12	· · FLATWASHER, 20 MM SERRATED		
27	R4272032	12	· · BOLT, 20 MM X 2.50 X 130 MM		
	R4289238	1	· TRUNNION PIVOT GROUP		
28	R4163582	2	· · BUSHING, MOUNT		
29	R4161145	2	· · CAP, MOUNT		
30	R0021656	8	· · BOLT, 3/4"-10 X 5"		
31	R0021542	8	· · LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
32	R4161482	AR	· · SHIM, 1/8"		
33	R4161483	AR	· · SHIM, 3/8"		
34	R4289240	2	· · SOCKET MOUNT STRUCTURE		
35	R0021544	8	· · LOCKWASHER, 1"		
36	R4002144	8	· · CAPSCREW, 1"-14 X 3-1/2"		

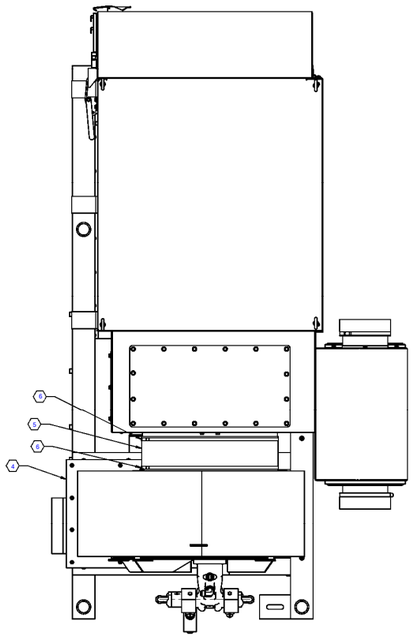
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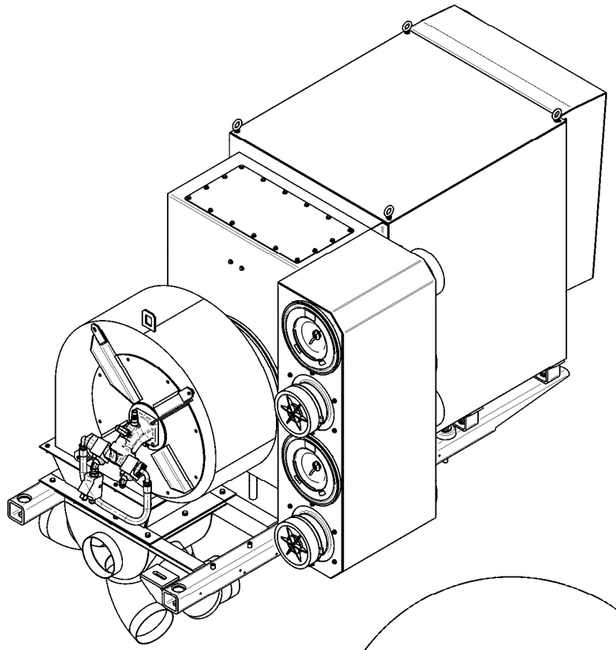
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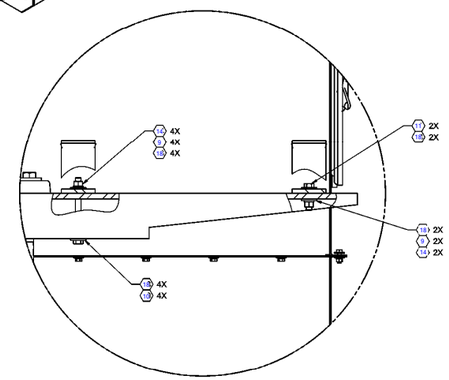
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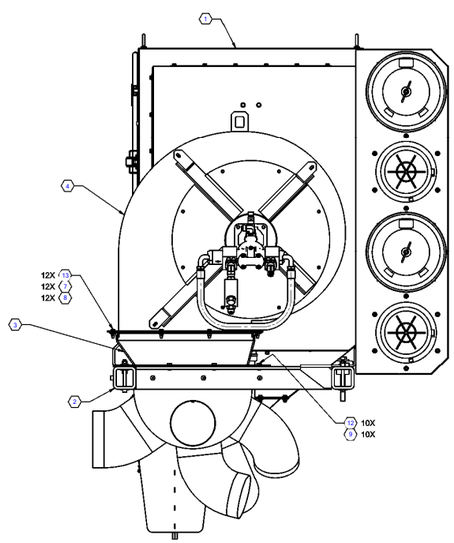
BLOWER AND AIR CLEANER ASSEMBLY

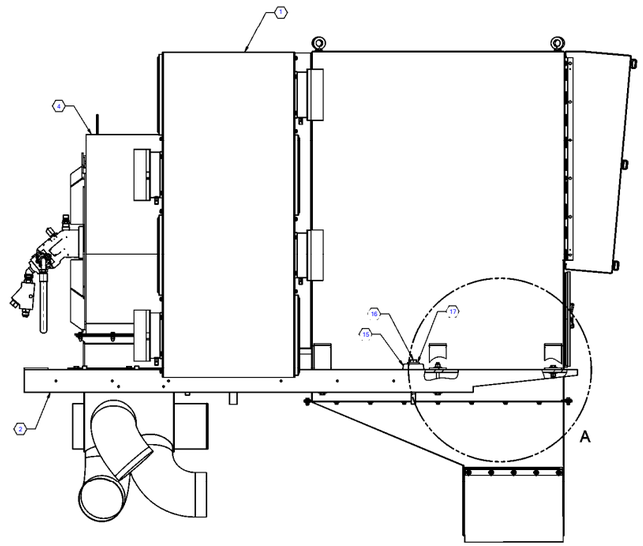






DETAIL A
1:4





NOTE:

INSERT ITEM 15, 16 & 17 BEFORE INSTALLATION OF KLENZ UNIT

ITEM	PART NO.	QTY	DESCRIPTION
18	0021549	12	WASHER FLAT .500 1.38 .13
17	0711601	1	WASHER FLAT .750 2.13 .25
16	4172139	1	BOLT HX .750 7.500 NC G8
15	4082921	1	MOUNT RUBBER
14	0808489	6	NUT HX .500 NC
13	0808476	12	BOLT HX .375 1.250 NC G8
12	0801180	10	BOLT HX .500 1.000 NC G8 FT
11	0827222	2	BOLT HX .500 2.000 NC G8
10	4009759	4	BOLT HX .500 5.50 NC G8
9	0801181	16	WASHER LOCK SPR .500 .673 .125
8	0812921	12	NUT HX 0.375-16UNC-2B G8 PL
7	0753123	12	WASHER LOCK SPR .375 .66 .09
6	4171318	4	CLAMP HOSE WORM DR 10.88 13.75
5	4227723	1	DUCT FLEX 24.00 x 7.00
4	4271043	1	ASSY BLOWER
3	4223232	1	STR BLOWER ADAPTER
2	4290961	1	STR MNT BLOWER/AIR CLEANER L1250G3
1	4287575	1	ASSY KLENZ FILTER L-1250

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 5600.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.010
- MACHINED CORNERS 164 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO

		DATE
DWN	smccracken	
CHK		
ENGR		
PROD ENGR		
PROJ APPROVAL		
MATL		

JOYGLOBAL

ASM BLOWER/AIR CLEANER L1250G3

SIZE E | DO NOT SCALE | DWG NO. 4290960 | REV 01

SCALE | DET WT 2066.0 lbm | SHEET 1 OF 1

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4290960		BLOWER AND AIR CLEANER ASSEMBLY		
1	R4287575	1	· FILTER ASSEMBLY, AIR CLEANER (PAGE 2.16-2.16A)		
2	R4290961	1	· MOUNT STRUCTURE, BLOWER AND AIR CLEANER		
3	R4223232	1	· ADAPTER STRUCTURE, BLOWER		
4	R4271043	1	· BLOWER ASSEMBLY (PAGE 2.14-2.14A)		
5	R4227723	1	· DUCT, FLEX - 24" X 7"		
6	R4171318	4	· CLAMP, HOSE - WORM, 13-3/4"		
7	R0753123	12	· LOCKWASHER, 3/8"		
8	R0812921	12	· NUT, 3/8"-16		
9	R0801181	16	· LOCKWASHER, 1/2"		
10	R4009759	4	· BOLT, 1/2"-13 X 5-1/2"		
11	R0827222	2	· BOLT, 1/2"-13 X 2"		
12	R0801180	10	· BOLT, 1/2"-13 X 1"		
13	R0808476	12	· BOLT, 3/8"-16 X 1-1/4"		
14	R0808489	6	· NUT, 1/2"-13		
15	R4082921	1	· MOUNT, RUBBER - 2400 LBS LOAD RATING		
16	R4172139	1	· BOLT, 3/4"-10 X 7-1/2"		
17	R0711601	1	· FLATWASHER, 3/4" I.D. X 2-1/8" O.D. X 1/4"		
18	R0021549	12	· FLATWASHER, 1/2"		
		REF	DRAWING, BLOWER AND AIR CLEANER ASSEMBLY (R429096001)		

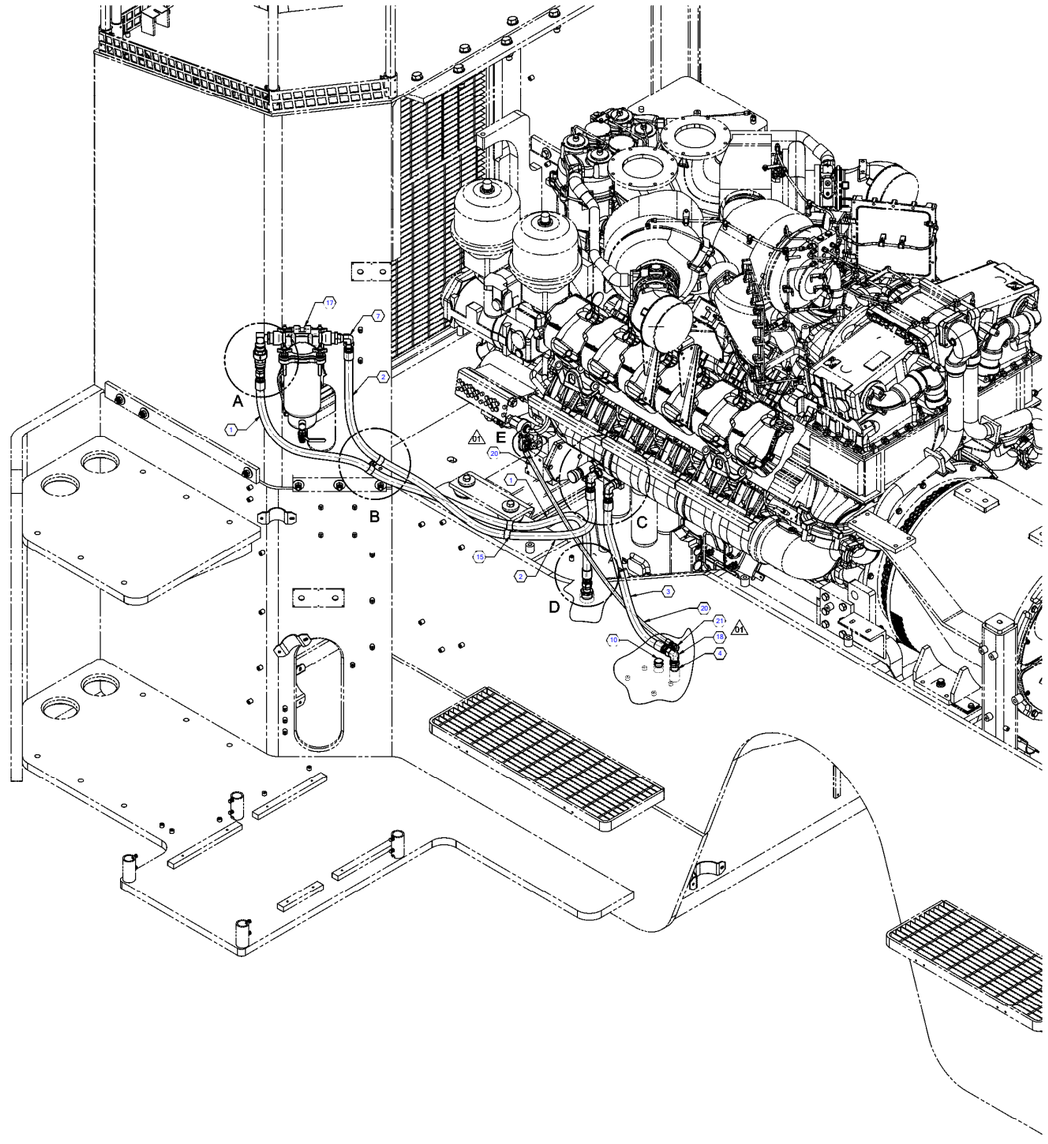
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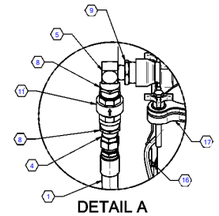
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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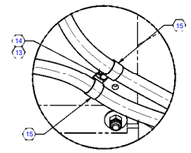
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FUEL SYSTEM

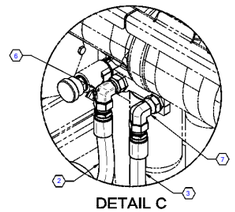




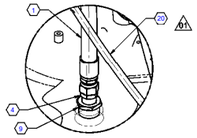
DETAIL A
1:4



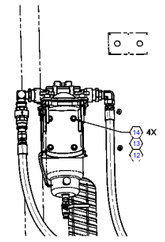
DETAIL B
TYP
1:4



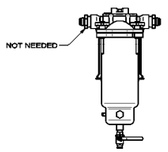
DETAIL C
1:4



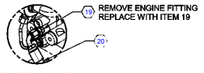
DETAIL D
1:4



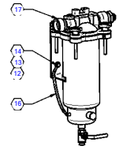
MOUNTING HARDWARE
FILTER SHOWN AS
REFERENCE FOR CLARITY



4262980
STOCK CONFIGURATION



DETAIL E
1:4



FUEL FILTER
GROUND LINE INSTALLATION

ITEM	PART NO.	QTY	DESCRIPTION
21	4116775	1	FTG HYD 90 6 MJ 2 MP*
20	4223311	1	HOSE 2250 6 50.0 0J 90J
19	4243581	1	FTG HYD 0 6 MJ 14 MMO
18	4237878	1	FTG HYD 90MJ 16FJ SWVL FUEL
17	4262980	REF	STR FILTER FUEL DDC TIER 2
16	4291785	1	GROUND WIRE MTU FUEL FILTER
15	4153807	4	CABLE CLAMP 1.50 .531
14	4131194	6	BOLT HX .375 .875 NC G8 FT
13	9429695	6	WASHER LOCK SPR .382 .69 .12
12	0233042	4	WASHER FLAT .375 1.00 .10
11	4267851	1	VALVE CHECK 1-1/4 NPT .50 PSI
10	4223340	1	PIPE PLG 1.000 OH HX
9	4013951	2	PIPE RED 1.500 1.000 BSH 6000
8	4013782	2	PIPE BUSHING REDUCING
7	4002483	2	FTG HYD 90 16 MJ 16 FJ SWV
6	4233145	1	FTG HYD 90 16 MJ 16 FJ W/ PIPE PLUG
5	4244735	1	FTG HYD 90 16 MP 16 MP
4	4002424	3	FTG HYD 0 16 MJ 16 MP
3	4266862	1	HSEM 1000 16 42.0 0J 0J
2	4291786	1	HSEM 1000 16 86.0 0J 0J
1	4291787	1	HSEM 1000 16 100.0 0J 0J

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 9000-AL

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.010
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
429-1788

DWN	khardy	04-27-2017
CHK	TMW	04-27-2017
ENGR	TMW	04-27-2017
PROD ENGR		
PROJ APPROVAL		
MATL		

JOYGLOBAL

SUB GP FUEL LINES MTU 12V4000 T4

SIZE E | DO NOT SCALE | DWG NO. 4283232 | REV 01

SCALE 1:8 | WEIGHT 57.3 lbm | SHEET 1 OF 1

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4283232	1	FUEL LINES GROUP		
1	R4291787	1	· HOSE ASSEMBLY, #16 X 100", MDG		
2	R4291786	1	· HOSE ASSEMBLY, #16 X 86", MDG		
3	R4286862	1	· HOSE ASSEMBLY, #16 X 42", MDG		
4	R4002424	3	· ADAPTER, 1" MP X #16 MJ		
5	R4244735	1	· ELBOW, 1" MP X 90 deg. X 1" MP		
6	R4233145	1	· ELBOW, #12 MJ X 90 deg. X #12 MJ X 1/8" PLUG		
7	R4002483	2	· ELBOW, #16 FJ X 90 deg. X #16 MJ - SWIVEL		
8	R4013782	2	· REDUCER, 1" FP X 1-1/4" MP		
9	R4013951	2	· REDUCER, 1" FP X 1-1/2" MP		
10	R4223340	1	· PLUG, PIPE - 1", HEX HD.		
11	R4247865	1	· VALVE KIT, CHECK - FUEL, 1-1/4" - .50 PSI		
	R4267851	1	· · VALVE, CHECK - 1-1/4" - .50 PSI		
	R4267856	1	· · FILTER SCREEN, SUCTION - FUEL		
	R4271094	1	· · REDUCER, 1-1/4" MP X 1" MP		
	R4267853	1	· · RING, RETAINING		
	R4271091	1	· · O-RING, 1-1/8" I.D. - BUNA N		
	R4251923	1	· · FILTER SCREEN, SUCTION - FUEL		
	R4013951	1	· · BUSHING, 1" FP X 1-1/2" MP		
	R4103739	1	· · SEALANT, HYDRAULIC - LOCTITE #569-31		
12	R0233042	4	· FLATWASHER, 3/8"		
13	R9429695	6	· LOCKWASHER, 3/8"		
14	R4131194	6	· BOLT, 3/8"-16 X 7/8"		
15	R4153807	4	· CLAMP, CABLE - INSULATED, 1-1/2"		
16	R4291785	1	· WIRE, GROUND -FUEL FILTER		
17	R4262980	REF	· FUEL FILTER/SEPERATOR ASSEMBLY	1	
	R4262981	REF	· · FILTER, FUEL	1	
	N.P.N	REF	· · O-RING	1	
	N.P.N	REF	· · SPRING	1	
18	R4237876	1	· ELBOW, #16 FJ X 90 deg. X #16 MJ - SWIVEL X 1/8" FP		
19	R4243561	1	· ADAPTER, 14 MMO X #6 MJ		
20	R4223311	1	· HOSE ASSEMBLY, #6 X 50"		
21	R4116775	1	· ELBOW, 1/8" MP X 90 deg. X #6 MJ		
	R4272895	1	FILLER GROUP, FUEL TANK (PAGE 2.2-2.2C)		
	R4233141	1	VENT GROUP, FUEL TANK (PAGE 2.2-2.2C)		
	R4278102	1	FUEL TANK GROUP (PAGE 2.2-2.2C)		
			DRAWING, FUEL LINES GROUP (428323201)		

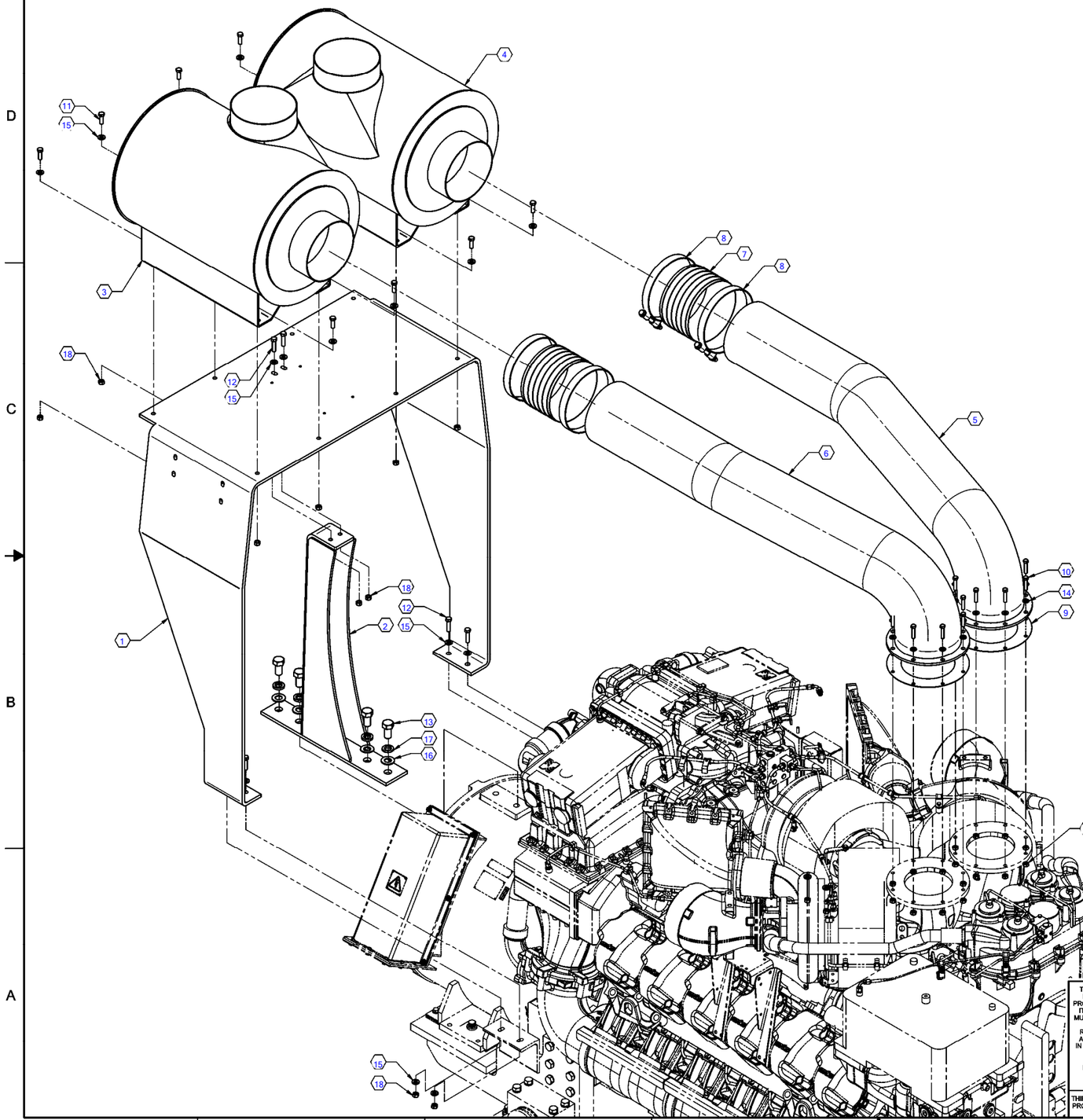
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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EXHAUST SYSTEM



ITEM	PART NO.	QTY	DESCRIPTION
19	0824367	16	NUT HX .438 NC G8
18	0808489	14	NUT HX .500 NC
17	4125632	4	WASHER LOCK SPR 1.024 1.70 .306
16	4036898	4	WASHER FLAT 1.000 2.00 .13
15	0810991	18	WASHER FLAT .531 1.062 .121
14	4010924	16	WASHER FLAT .438 .92 .08
13	0021666	4	BOLT HX 1.000 2.000 NC G8 FT
12	0827222	6	BOLT HX .500 2.000 NC G8
11	4009753	8	BOLT HX .500 1.500 NC G8
10	0021610	16	BOLT HX .438 2.000 NC G8 FT
9	4260174	2	GASKET EXHAUST OUTLET
8	4142031	4	CLAMP STR, 10 - 11/4
7	4182641	2	FLEX TUBE, 10 ID
6	4287594	1	STR TUBE EXHAUST LH MTU T4
5	4287595	1	STR TUBE EXHAUST RH MTU T4
4	4295544	1	EXH SILENCER LH 10 10 CTR OUT G3
3	4295543	1	EXH SILENCER RH 10 10 CTR OUT G3
2	4287591	1	STR MUFFLER SUPPORT MOUNT L1250
1	4287590	1	PLATE MUFFLER MOUNT L1250

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-3231

		DATE
DWN	khardy	02-17-2017
CHK	TMW	02-17-2017
ENGR	TMW	02-17-2017
PROD ENGR		
PROJ APPROVAL		
MATL		

JOYGLOBAL

SUB GP EXHAUST SYS MTU 12V4000 T4

SIZE D | DO NOT SCALE | DWG NO. 4287589 | REV 02

SCALE 1:8 | EST WT 1111.8 lbm | SHEET 1 OF 1

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EXHAUST SYSTEM

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4287589		EXHAUST SYSTEM		
1	R4287590		· MOUNT STRUCTURE, MUFFLER		
2	R4287591		· SUPPORT STRUCTURE, MUFFLER MOUNT		
3	R4295543		· MUFFLER STRUCTURE, R.H.		
4	R4295544		· MUFFLER STRUCTURE, L.H.		
5	R4287595		· TUBE STRUCTURE, MUFFLER - R.H.		
6	R4287594		· TUBE STRUCTURE, MUFFLER - L.H.		
7	R4182641		· TUBE, FLEX - 10" I.D. X 6", METAL		
8	R4142031		· CLAMP ASSEMBLY, 10-1/4"		
9	R4260174		· GASKET, EXHAUST TUBE		
10	R0021610		· BOLT, 7/16"-14 X 2"		
11	R4009753		· BOLT, 1/2"-13 X 1-1/2"		
12	R0827222		· BOLT, 1/2"-13 X 2"		
13	R0021666		· BOLT, 1"-8 X 2"		
14	R4010924		· FLATWASHER, 7/16"		
15	R0810991		· FLATWASHER, 1/2" X 1" X 1/8"		
16	R4036898		· FLATWASHER, 1" I.D. X 2" O.D. X 1/8"		
17	R4125632		· LOCKWASHER, 1"		
18	R0808489		· NUT, 1/2"-13		
19	R0824367		· NUT, 7/16"-14		
	N.P.N.	REF	ENGINE, MTU T4 (PAGE 2.0-2.0A)		
		REF	DRAWING, EXHAUST SYSTEM MTU T4 (R428758902)		

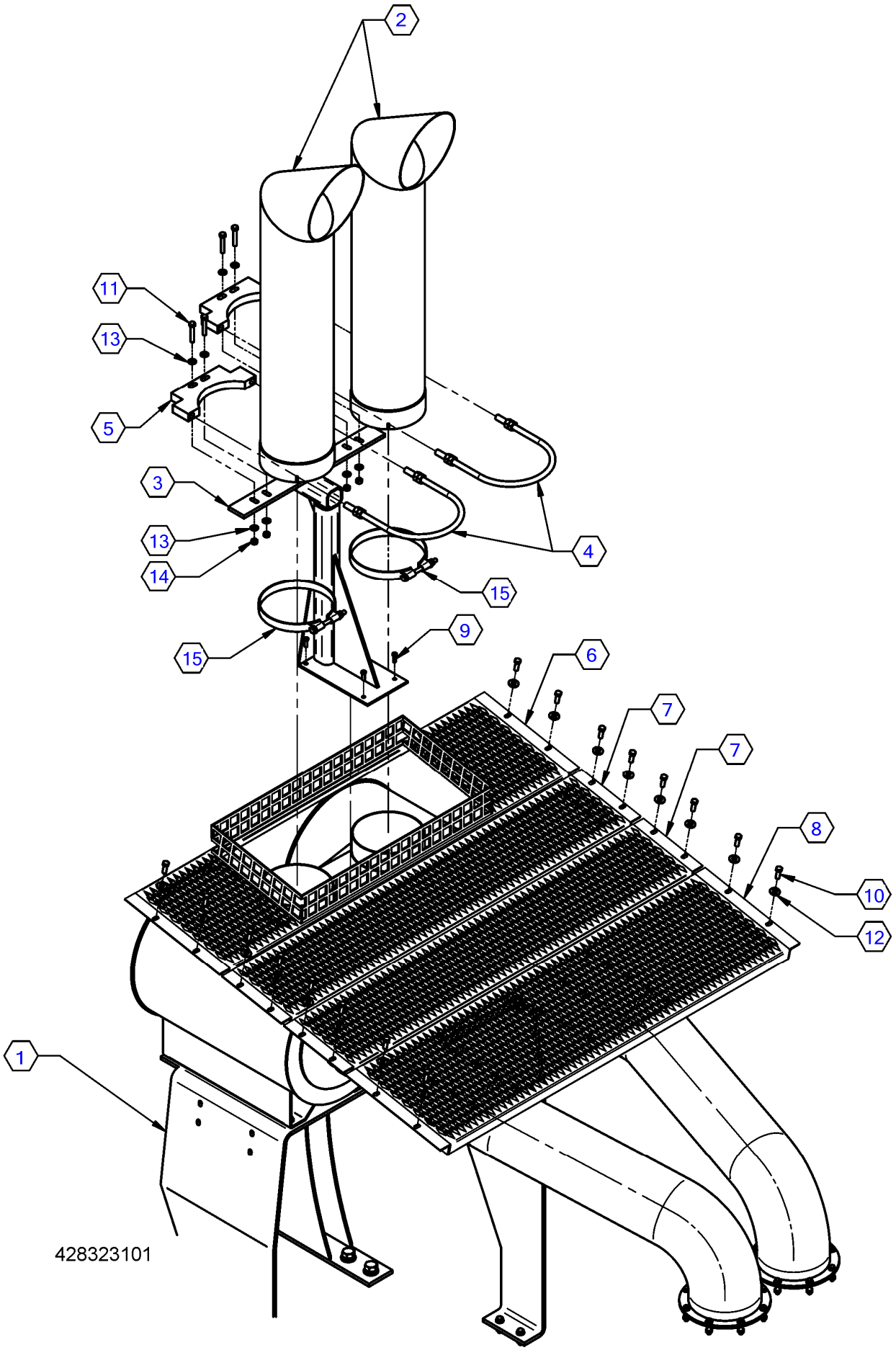
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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EXHAUST SYSTEM



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4283231		EXHAUST SYSTEM		
1	R4287589	1	· EXHAUST SYSTEM (PAGE 2.3-2.3A)		
2	R4241924	2	· STACK, EXHAUST		
3	R4287598	1	· TEE STRUCTURE, EXHAUST MOUNT		
4	R4241694	2	· U-BOLT, 10-7/8" - WITH NUTS		
5	R4241652	2	· CLAMP STRUCTURE, STACK		
6	R4239095	1	· GRATING STRUCTURE, HOOD STACKS		
7	R4238149	2	· GRATING STRUCTURE, HOOD		
8	R4104086	1	· GRATING STRUCTURE		
9	R0186619	4	· BOLT, 3/8"-16 X 1-1/8"		
10	R4009753	16	· BOLT, 1/2"-13 X 1-1/2"		
11	R0808598	4	· BOLT, 1/2"-13 X 2-3/4"		
12	R4223104	16	· FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		
13	R0810991	8	· FLATWASHER, 1/2" X 1" X 1/8"		
14	R0808489	4	· NUT, 1/2"-13		
15	R4142031	2	· CLAMP ASSEMBLY, 10-1/4"		
	N.P.N.	REF	ENGINE, MTU T4 (PAGE 2.0-2.0A)		
		REF	DRAWING, EXHAUST SYSTEM MTU T4 (R428323101)		

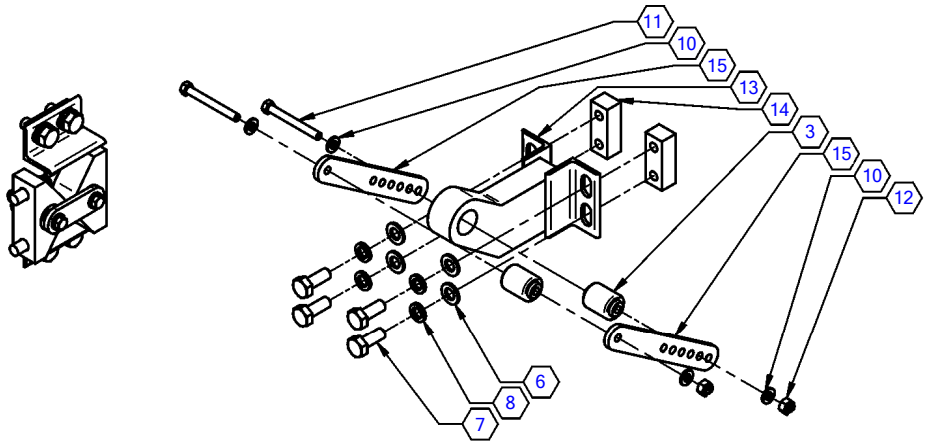
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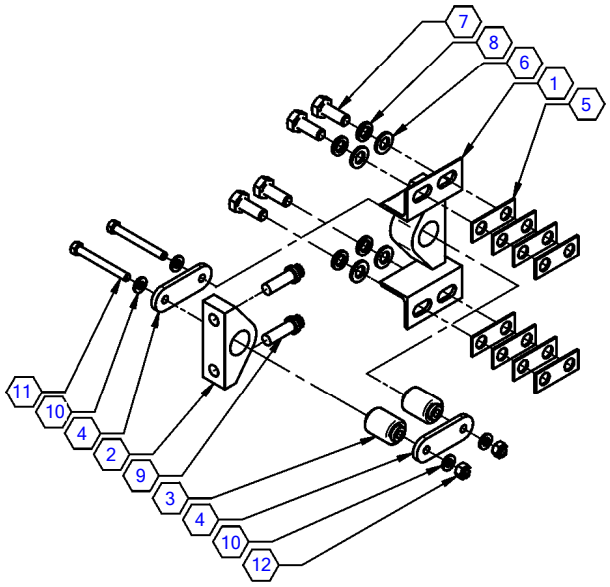
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

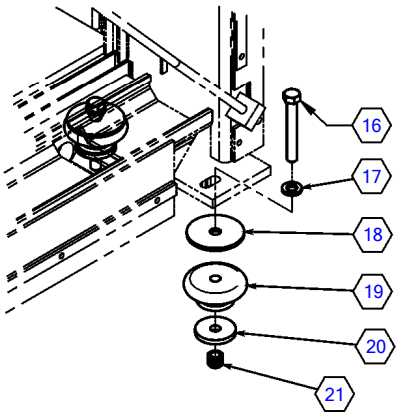
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RADIATOR MOUNT GROUP







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RADIATOR MOUNT GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			RADIATOR MOUNT GROUP (PL-659)		
	R4233147	1	RADIATOR TOP MOUNT		
1	R4170855	2	· MOUNT STRUCTURE, RADIATOR		
2	R4170853	2	· MOUNT, RADIATOR		
3	R4170847	6	· BUSHING, MOUNT - RADIATOR		
4	R4170854	4	· LINK, MOUNT - RADIATOR		
5	R4225142	16	· SHIM, 1/8"		
6	R4016046	12	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		
7	R0021644	12	· BOLT, 3/4"-10 X 2"		
8	R0021542	12	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
9	R4001910	4	· CAPSCREW, 3/4"-10 X 2-1/4"		
10	R0810991	12	· FLATWASHER, 1/2" X 1" X 1/8"		
11	R0836034	6	· BOLT, 1/2"-13 X 4-1/2"		
12	R4016017	6	· LOCKNUT, 1/2"-13 - NYLON		
13	R4219628	1	· MOUNT STRUCTURE, RADIATOR		
14	R4119482	REF	· TAPPED BAR, RADIATOR TO COWL		
15	R4211619	2	· LINK, MOUNT - RADIATOR		
	R4233146	1	RADIATOR BASE MOUNT		
16	R4009832	4	· BOLT, 3/4"-16 X 5-1/2"		
17	R4148687	4	· FLATWASHER, 3/4" X 1-1/2" X 3/16"		
18	R4211080	4	· FLATWASHER, 3/4" I.D. X 4-1/4" O.D. X 1/8"		
19	R4082921	4	· MOUNT, RUBBER - 2400 LBS LOAD RATING		
20	R0711602	4	· FLATWASHER, 3/4" I.D. X 3" O.D. X 1/4"		
21	R4016031	4	· LOCKNUT, 3/4"-16 - NYLON		
		REF	DRAWING, RADIATOR MOUNT GROUP (R427483900 & R423314601)		

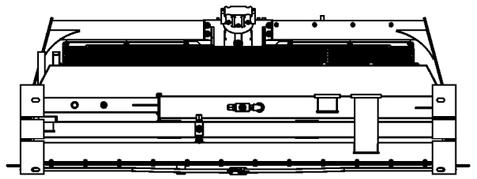
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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RADIATOR PIPING

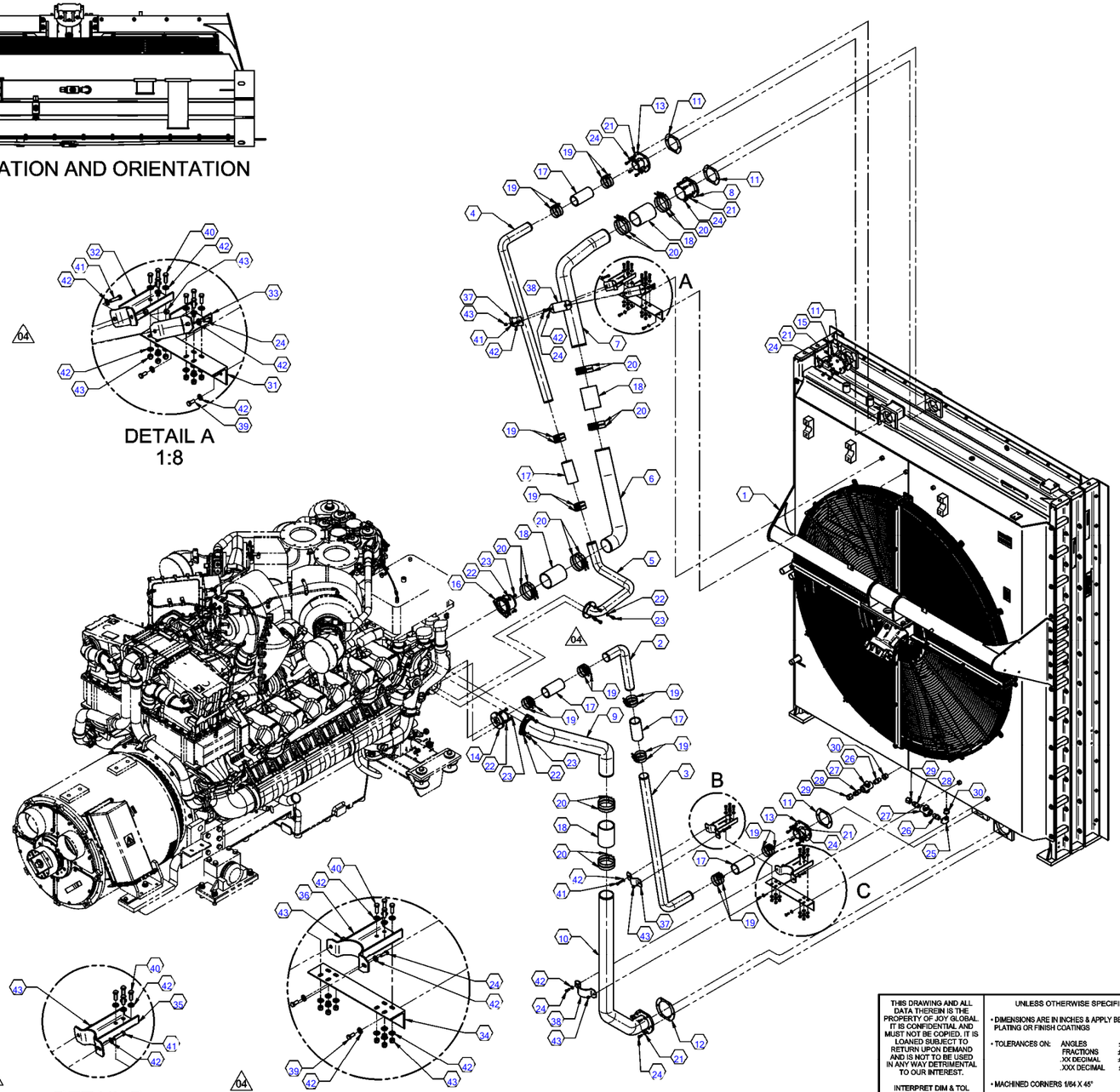


DRAIN LOCATION AND ORIENTATION

DETAIL A
1:8

DETAIL B
1:8

DETAIL C
1:8



ITEM	PART NO.	QTY	DESCRIPTION
43	0985113	24	NUT LOCK NYL INS .375 NC
42	0808221	44	WASHER FLAT .375 .81 .08
41	4009640	4	BOLT HX .375 1.500 NC G8
40	0186619	16	BOLT HX .375 1.13 NC G8 FT
39	4131194	4	BOLT HX .375 .875 NC G8 FT
38	0987620	2	CLAMP HALF 4 INCH
37	4237810	2	CLAMP HALF 2.50
36	4294536	1	STR SUPPORT RAD COOLANT LOWER
35	4294535	1	STR SUPPORT RAD IC LOWER
34	4294532	1	ANGLE RAD SUPPORT LOWER
33	4291828	1	STR SUPPORT RAD COOLANT UPPER
32	4291829	1	STR SUPPORT RAD IC UPPER
31	4294531	1	ANGLE RAD SUPPORT UPPER
30	4013796	2	PIPE RED 1.000 .750 BSH 6000
29	4123617	2	CAP NUT #12 JIC
28	4002422	2	FTG HYD 0 12 MJ 12 MP
27	4035388	2	DRAIN VALVE
26	4123236	2	NIPPLE-HEX PIPE 3/4 (HYD)
25	0066769	1	PIPE ELB .750 90 STREET 150
24	0810971	34	BOLT HX .375 1.000 NC G8 FT
23	4103848	14	BOLT HX M10 x 1.50 x 25 (0.98)
22	4010908	14	WASHER LOCK .438 .78 .109 SPR
21	0753123	30	WASHER LOCK SPR .375 .68 .09
20	0983407	16	CLAMP HOSE T-BOLT 4.50
19	0983442	20	CLAMP HOSE T-BOLT 3.00
18	0983410	4	HOSE 4 X 6 LG
17	4015086	5	HOSE 2-1/2 X 6 LG
16	4275139	1	STR FLANGE TUBE
15	4236860	1	FLANGE COVER PLATE
14	4236718	1	FLANGE ADAPT INTERCOOLER INLET
13	4236862	2	FLANGE 2.5 ASSY
12	4247533	1	GASKET 5 (FLANGE TO TANK)
11	4033186	4	GASKET (FLANGE TO TANK)
10	4291780	1	STR TUBE 4.00 RAD 12V4000 T4 IN
9	4291808	1	STR TUBE 4.00 RAD 12V4000 T4 ENG IN
8	4241731	1	STR RADIATOR ADAPTER INLET 4.00
7	4291777	1	TUBE 4.00 RAD 12V4000 T4 OUT
6	4278137	1	TUBE 4.00 L1350 RAD
5	4291825	1	STR TUBE 2.50 RAD 12V4000 T4 IC UPPER
4	4291778	1	TUBE 2.50 RAD 12V4000 T4 OUT
3	4271379	1	TUBE 2.50 OD RAD LWR
2	4291826	1	TUBE 2.50 RAD 12V4000 T4 IC LOWER
1	4283227	1	ASSY RAD O/C CFAN MTR L1250

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

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- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO

		DATE
DWN	khardy	03-16-2017
CHK	TMW	03-16-2017
ENGR	TMW	03-16-2017
PROD ENGR		
PROJ APPROVAL		
MATL		

JOYGLOBAL

SUB GP RAD/ENG PLUMBING 12V4000 T4

SIZE D | DO NOT SCALE | DWG NO. 4283226 | REV 04

SCALE 1:16 | EST WT 1569.5 lbm | SHEET 1 OF 1

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RADIATOR PIPING

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RADIATOR PIPING

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4283226		RADIATOR PIPING		
1	R4283227	1	· RADIATOR OIL COOLER AND FAN ASSEMBLY (PAGE 8.6-8.6A)		
2	R4291826	1	· TUBE STRUCTURE, RADIATOR LOWER - 2-1/2" O.D.		
3	R4271379	1	· TUBE STRUCTURE, RADIATOR LOWER - 2-1/2" O.D.		
4	R4291778	1	· TUBE STRUCTURE, RADIATOR UPPER - 2-1/2" O.D.		
5	R4291825	1	· TUBE STRUCTURE, RADIATOR UPPER - 2-1/2" O.D.		
6	R4278137	1	· TUBE STRUCTURE, 4" O.D.		
7	R4291777	1	· TUBE STRUCTURE, 4" O.D. - OUTLET		
8	R4241731	1	· FLANGE STRUCTURE, RADIATOR OUTLET		
9	R4291808	1	· TUBE STRUCTURE, 4" O.D. - INLET		
10	R4291780	1	· TUBE STRUCTURE, 4" O.D. - INLET		
11	R4033186	4	· GASKET, 4-1/8" I.D. - FLANGE TO TANK		
12	R4247533	1	· GASKET, 5" I.D. - FLANGE TO TANK		
13	R4236862	2	· FLANGE, 2-1/2" - 6 BOLT		
14	R4236718	1	· FLANGE, 2-1/2" - 4 BOLT		
15	R4236860	1	· COVER PLATE, 6" O.D. - 6 BOLT		
16	R4275139	1	· FLANGE STRUCTURE, RADIATOR		
17	R4015086	5	· HOSE, 2-1/2" I.D. X 6"		
18	R0983410	4	· HOSE, 4" I.D. X 6"		
19	R0983442	20	· CLAMP HOSE T-BOLT 3"		
20	R0983407	16	· CLAMP, HOSE - T-BOLT, 4-1/2"		
21	R0753123	30	· LOCKWASHER, 3/8"		
22	R4010908	14	· LOCKWASHER, 7/16"		
23	R4103848	14	· BOLT, 10 MM X 1.50 X 25		
24	R0810971	34	· BOLT, 3/8"-16 X 1"		
25	R0066769	1	· ELBOW, 3/4" FP X 90 deg. X 3/4" MP		
26	R4123236	2	· NIPPLE, PIPE - 3/4", HEX		
27	R4035388	2	· VALVE, DRAIN - 3/4"		
28	R4002422	2	· ADAPTER, 3/4" MP X #12 MJ		
29	R4123617	2	· NUT, CAP - #12 JIC		
30	R4013796	2	· BUSHING, 3/4" FP X 1" MP		
31	R4294531	1	· SUPPORT STRUCTURE, UPPER		
32	R4291829	1	· SUPPORT STRUCTURE, UPPER		
33	R4291828	1	· SUPPORT STRUCTURE, UPPER		
34	R4294532	1	· SUPPORT STRUCTURE, LOWER		
35	R4294535	1	· SUPPORT STRUCTURE, LOWER		
36	R4294536	1	· SUPPORT STRUCTURE, LOWER		
37	R4237810	2	· CLAMP HALF, 2-1/2"		
38	R0987620	2	· CLAMP HALF, 4" O.D.		
39	R4131194	4	· BOLT, 3/8"-16 X 7/8"		
40	R0186619	16	· BOLT, 3/8"-16 X 1-1/8"		
41	R4009640	4	· BOLT, 3/8"-16 X 1-1/2"		
42	R0808221	44	· FLATWASHER, 3/8"		
43	R0985113	24	· LOCKNUT, 3/8"-16 - NYLON		
		REF	DRAWING, RADIATOR PIPING (R428322604)		

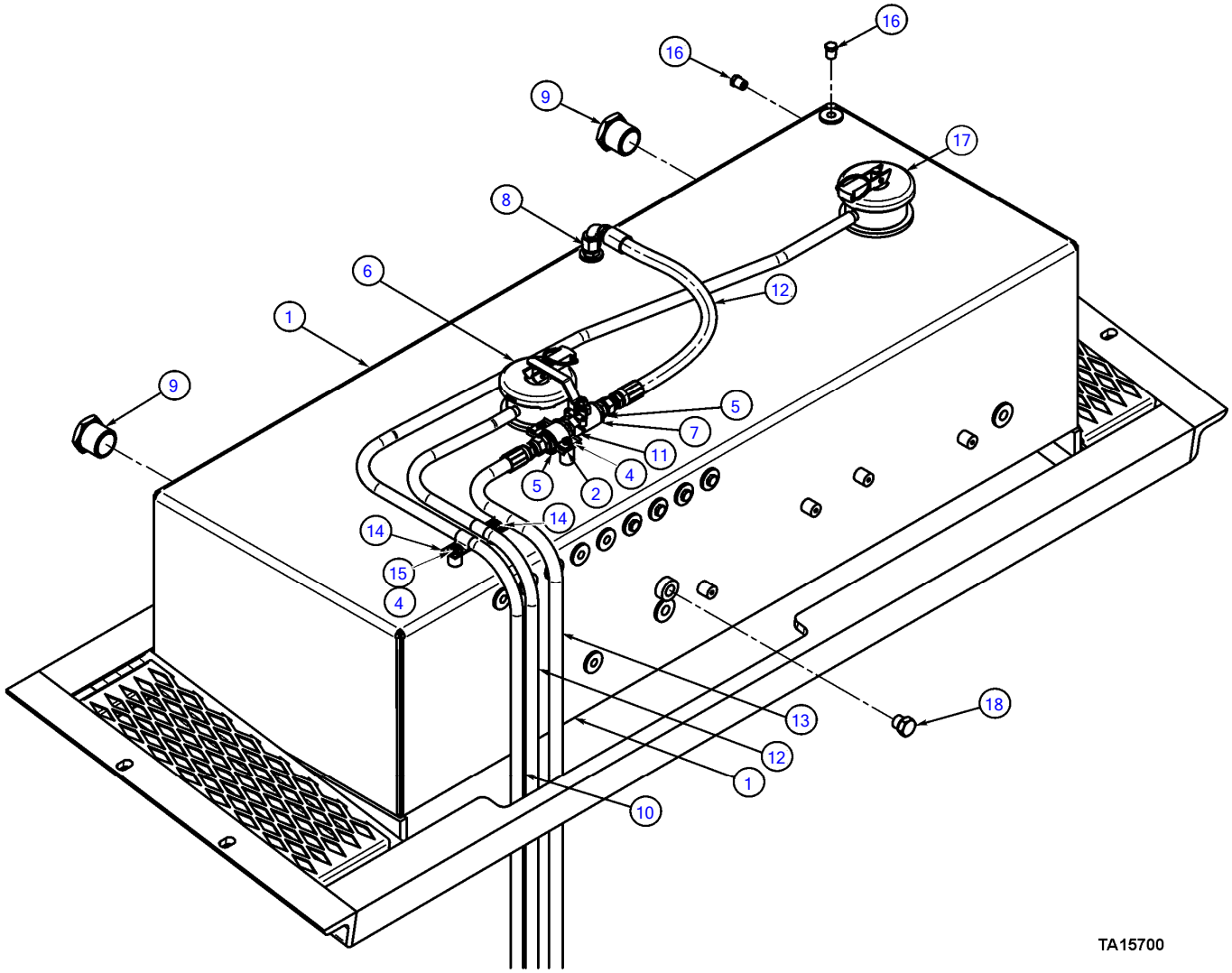
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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SURGE TANK HARDWARE GROUP



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4272035		SURGE TANK HARDWARE GROUP (-1)		6/19/19
1	R4272037	1	· SURGE TANK STRUCTURE		
2	R0231310	2	· CLAMP HALF, 1-3/8" DIA.		
3	R0180841	1	· COUPLING, PIPE - 1/2"		
4	R0417597	4	· BOLT, 1/4"-20 X 1/2"		
5	R4018666	2	· ADAPTER, 1/2" MP X #8 MJ		
6	R4269212	1	· CAP, TANK - 4", 14 PSI		
7	R4225155	1	· VALVE, BALL - 1/2"		2/11/14
8	R4021571	1	· ADAPTER, 1/4" MP X #8 MJ		
9	R4133905	2	· GAUGE, LEVEL - SIGHT GLASS		
10	R4166954	2	· HOSE, #6 X 182"		6/19/19
11	R0064820	1	· NIPPLE, PIPE		
12	R4177375	1	· HOSE ASSEMBLY, #8 X 18"		
13	R4223147	1	· HOSE ASSEMBLY, #8 X 170"		
14	R4153803	3	· CLAMP, CABLE - INSULATED, 5/8"		
15	R4223100	2	· FLATWASHER, 1/4" I.D. X 5/16" O.D. X 1/16" - CONICAL		
16	R4013779	6	· PLUG, PIPE - 1/4", HEX HD.		
17	R4275491	1	· CAP, TANK - 4", 10 PSI		
18	R4274907	1	· PLUG, 18M MO X 1.5		
19	R4013958	1	· PLUG, PIPE - 1" SQ. CSK. MAG.		6/19/19
	R4117627	REF	SENDING UNIT, LOW LEVEL		3/15/18
		REF	DRAWING, SURGE TANK HARDWARE GROUP (R427203506)		6/19/19

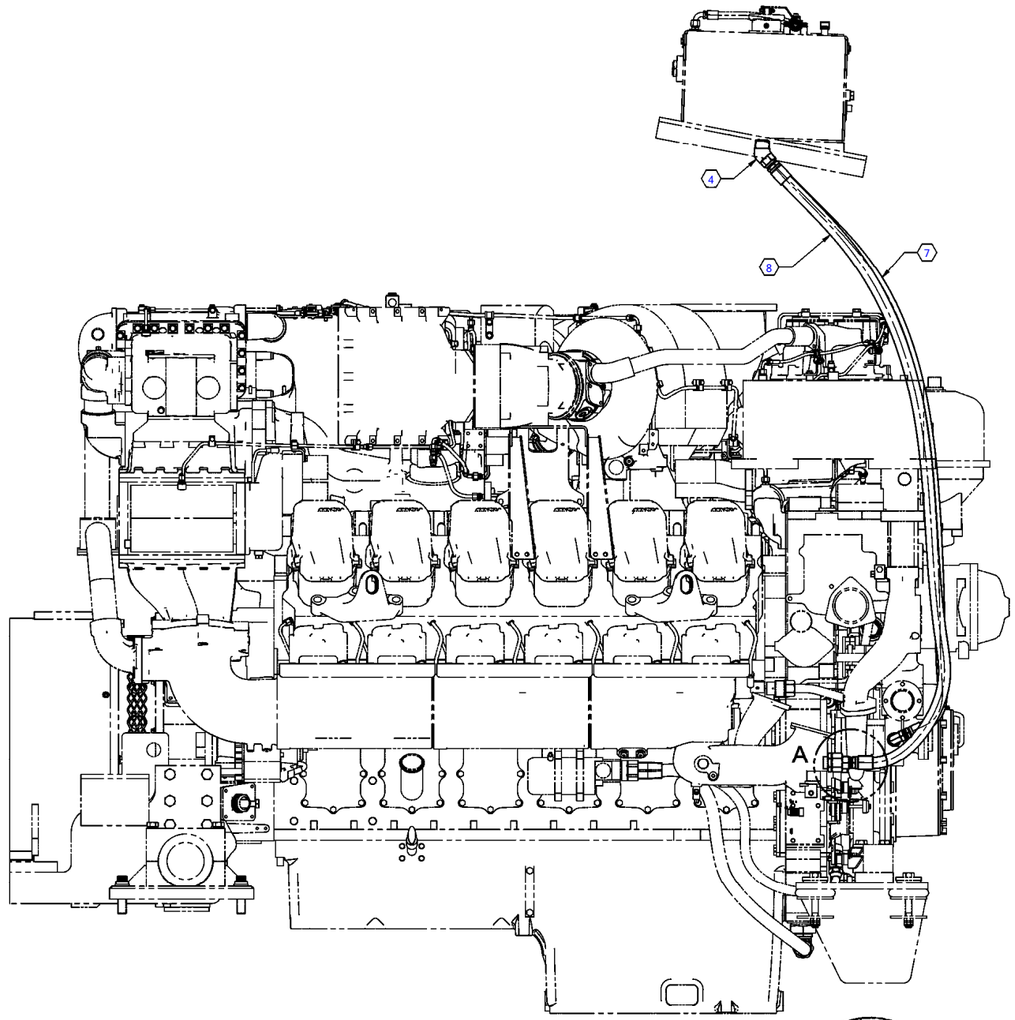
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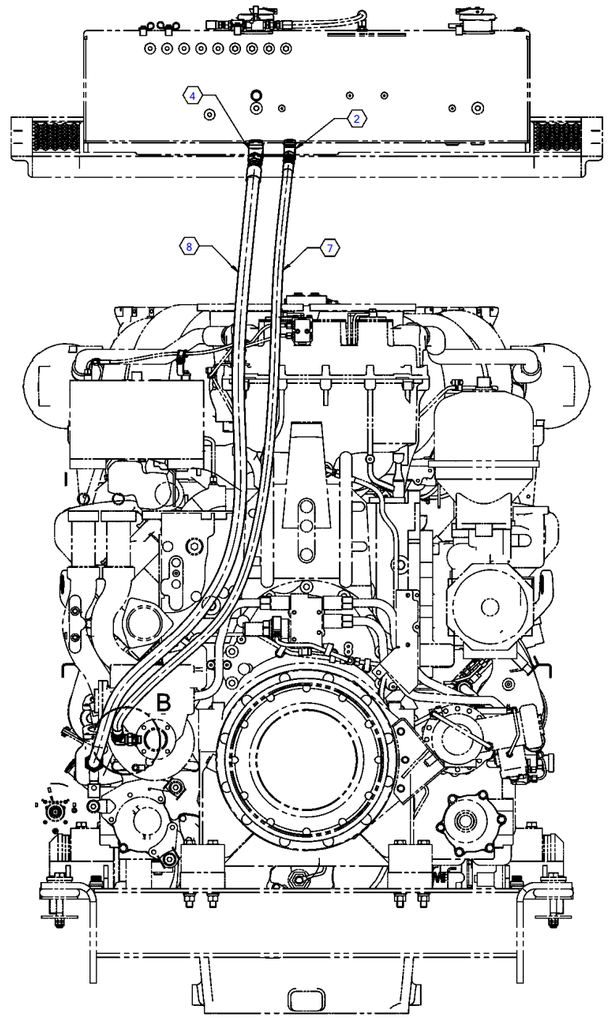
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

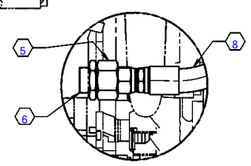
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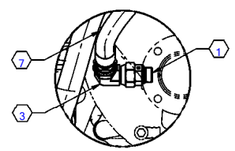
SURGE TANK FILL LINES GROUP







DETAIL A



DETAIL B

ITEM	PART NO.	QTY	DESCRIPTION
8	4223065	1	HOSE 1000 16 98.0 0J 0J
7	4094035	1	HOSE 1250 12 92.0 0J 0J
6	4279888	1	FTG HYD 0 20 MJ 38 MM
5	4270898	1	FTG HYD 0 20 FJ 16 MJ
4	4260659	1	FTG HYD 45 16 MJ 20 MP
3	4002481	1	FTG HYD 90 12 MJ 12 FJ SWVL
2	4260654	1	FTG HYD 45 12 MJ 16 MP
1	4243562	1	FTG HYD 0 12 MJ 22 MMO

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-3225

		DATE
DWN	khardy	03-28-2017
CHK	TMW	03-28-2017
ENGR	TMW	03-28-2017
PROD ENGR		
PROJ APPROVAL		
MATL		

JOYGLOBAL

SUB GP ENGINE FILL LINES MTU T4

SIZE D | DO NOT SCALE | DWG NO. 4283229 | REV 01

SCALE 1:8 | EST WT 10.8 lbm | SHEET 1 OF 1

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SURGE TANK FILL LINES GROUP

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SURGE TANK FILL LINES GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4283229		SURGE TANK FILL LINES GROUP		
1	R4243562	1	· ADAPTER, 22 MMO X #12 MJ		
2	R4260654	1	· ELBOW, 1" MP X 45 deg. X #12 MJ		
3	R4002481	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
4	R4260659	1	· ELBOW, 1-1/4" MP X 45 deg. X #16 MJ		
5	R4270898	1	· ADAPTER, #20 FJ X #16 MJ		
6	R4279888	1	· ADAPTER, 38MM X #20 MJ		
7	R4094035	1	· HOSE ASSEMBY, #12 X 92"		
8	R4223065	1	· HOSE ASSEMBY, #16 X 98"		
		REF	DRAWING, SURGE TANK FILL LINES GROUP (R428322901)		

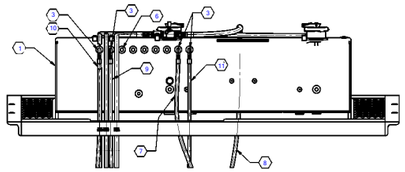
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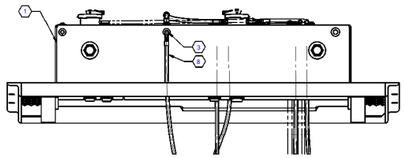
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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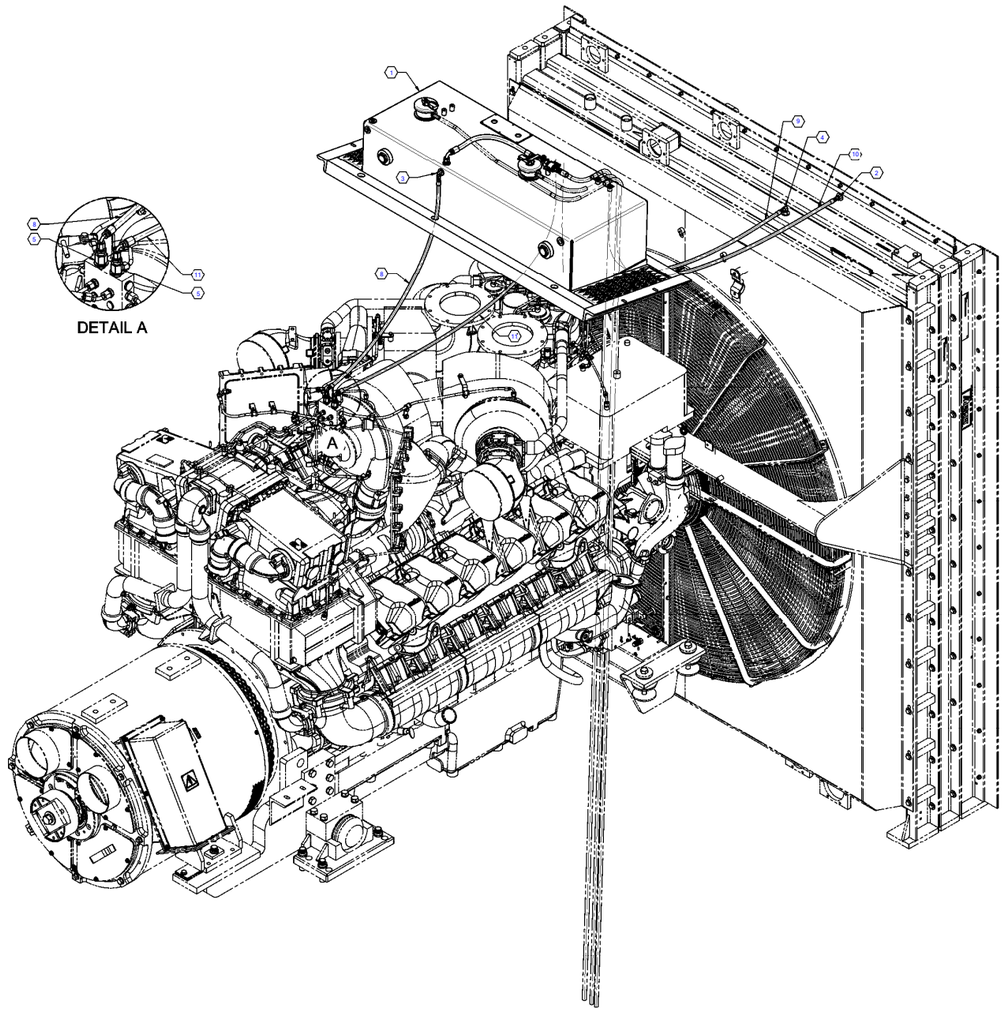
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SURGE TANK VENT LINES GROUP

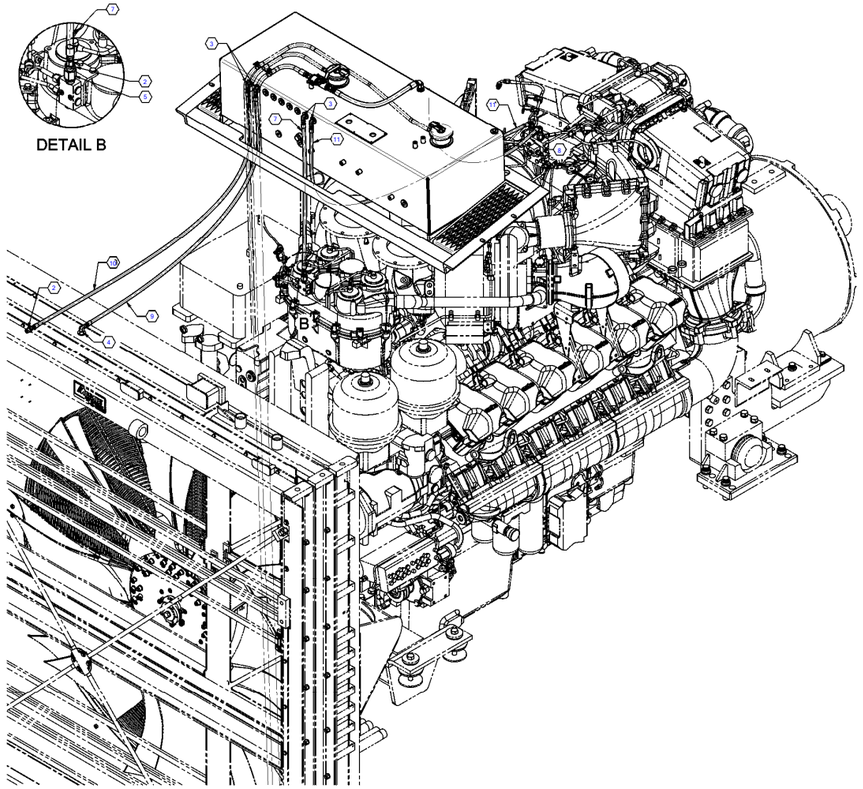




DETAIL A



DETAIL B



ITEM	PART NO.	QTY	DESCRIPTION
11	4162439	1	HOSE 2750 4 74.0 0J 90J
10	4150733	1	HOSE 5000 4 74.0 0J 0J
9	4150730	1	HOSE 5000 4 65.0 0J 0J
8	4156393	1	HOSE 5000 4 50.0 0J 90J
7	4122876	1	HOSE 5000 4 32.0 0J 0J**
6	4013779	2	PIPE PLUG 1/4 NPT HEX HEAD
5	4243602	3	FTG HYD 0 6 FP 18 MM
4	6953864	1	FTG HYD 90 4 MJ 6 MP JUMP
3	4011748	5	FTG HYD 90 4 MJ 4 MP JUMP
2	4040562	4	FTG HYD 0 4 MJ 6 MP JUMP
1	4272095	1	SUB GP SURGE TANK HARDWARE

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1660.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-3225

DWN	khardy	03-24-2017
CHK	TMW	03-24-2017
ENGR	TMW	03-24-2017
PROD ENGR		
PROJ APPROVAL		
MATL		

JOYGLOBAL

SUB GP SURGE TANK HDWR & LINES

SIZE E | DO NOT SCALE | DWG NO. 4283228 | REV 00

SCALE 1:8 | WT/WT 547.8 lbm | SHEET 1 OF 1

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SURGE TANK VENT LINES GROUP

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SURGE TANK VENT LINES GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4283228		SURGE TANK VENT LINES GROUP		
1	R4272035	1	· SURGE TANK HARDWARE GROUP (PAGE 2.5-2.5B)		
2	R4040562	4	· ADAPTER, 3/8" MP X #4 MJ		
3	R4011748	5	· ELBOW, 1/4" MP X 90 deg. X #4 MJ		
4	R6953864	1	· ELBOW, 3/8" MP X 90 deg. X #4 MJ		
5	R4243602	3	· ADAPTER, 3/8" FP X 18MM		
6	R4013779	2	· PLUG, PIPE - 1/4", HEX HD.		
7	R4122876	1	· HOSE ASSEMBLY, #4 X 32"		
8	R4156393	1	· HOSE ASSEMBLY, #4 X 50"		
9	R4150730	1	· HOSE ASSEMBLY, #4 X 65"		
10	R4150733	1	· HOSE ASSEMBLY, #4 X 74"		
11	R4162439	1	· HOSE ASSEMBLY, #4 X 74"		
		REF	DRAWING, SURGE TANK FILL LINES GROUP (R428322800)		

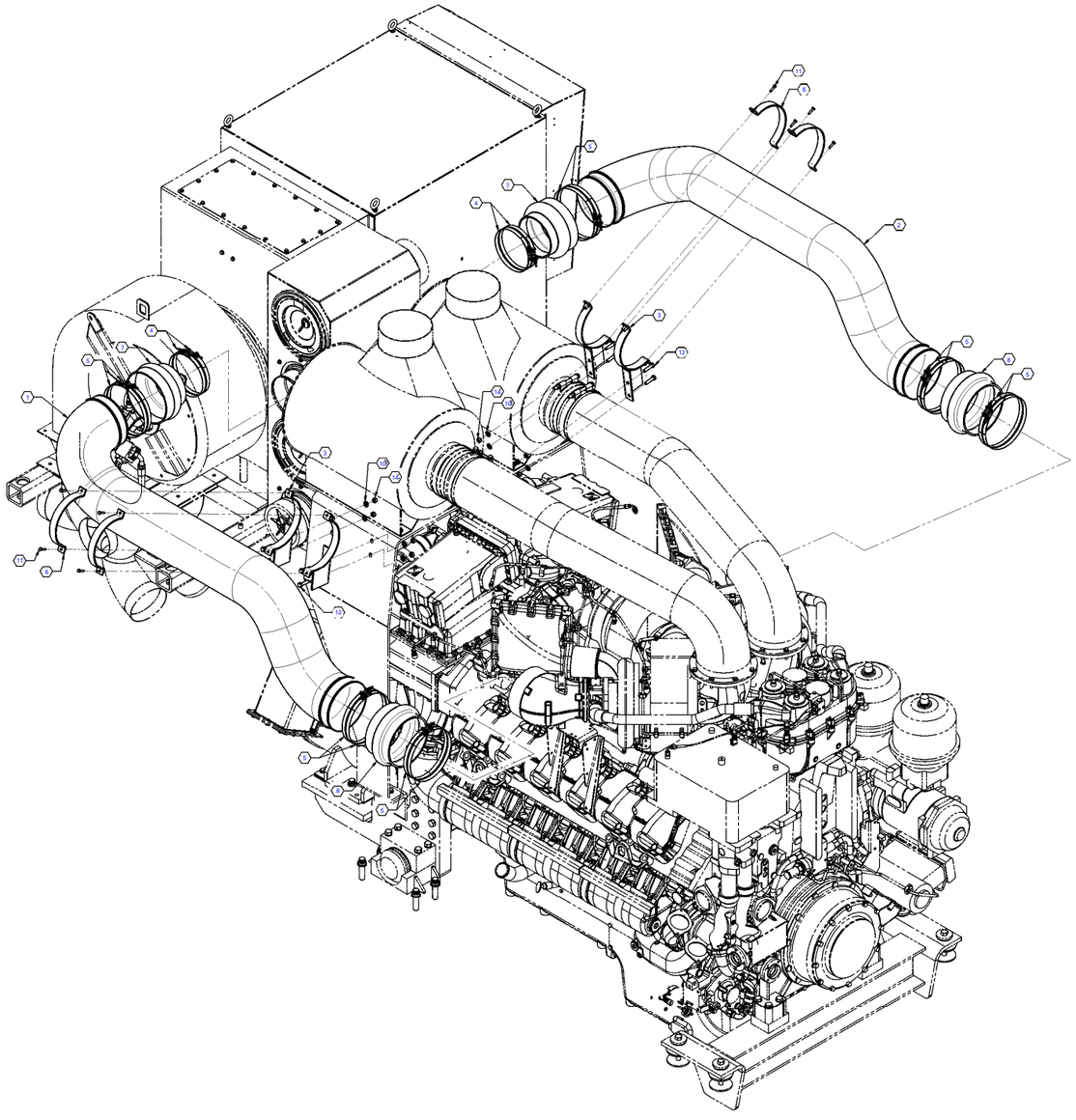
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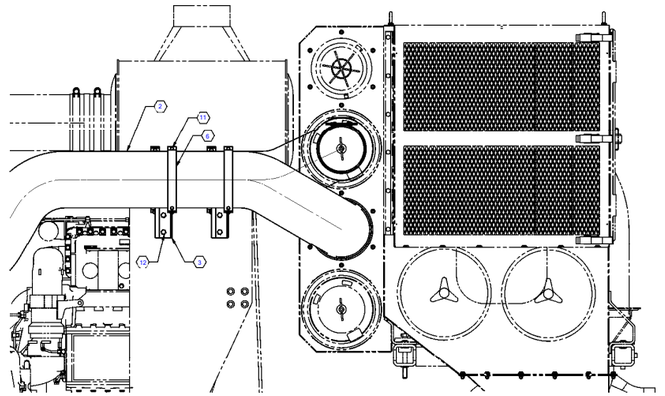
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

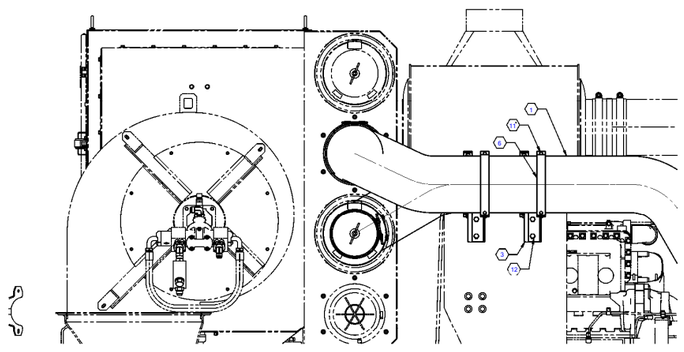
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ENGINE AIR INLET SYSTEM







ITEM	PART NO.	QTY	DESCRIPTION
14	0808489	8	NUT HX .500 NC
12	0827222	8	BOLT HX .500 2.000 NC G8
11	0824763	8	BOLT HX .313 1.250 NC G8 FT
10	0810991	8	WASHER FLAT .531 1.062 .121
8	4081294	2	HOSE HUMP 10
7	4215137	2	HOSE HUMP 10.00 8.00 6.00
6	4158287	4	CLAMP HALF 10.00 BAR FLAT
5	4215136	12	CLAMP HOSE T-BOLT 10.50
4	0980785	4	CLAMP T-BOLT 8-1/2
3	4291770	4	STR 10.00 TUBE SUPPORT L1250
2	4291775	1	STR TUBE AIR RH MTU T4
1	4291774	1	STR TUBE AIR LH MTU T4

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 9000.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.010
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO

		DATE
DWN	khardy	03-22-2017
CHK	TMW	03-22-2017
ENGR	TMW	03-22-2017
PROD ENGR	TMW	
PROJ APPROVAL		
MATL		

JOYGLOBAL

GP AIR INTAKE MTU 12V4000 T4

SIZE E | DO NOT SCALE | DWG NO. 4283230 | REV 01

SCALE 1:8 | WT/PT 252.0 lbm | SHEET 1 OF 1

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4283230		ENGINE AIR INLET SYSTEM		
1	R4291774	1	· TUBE STRUCTURE, L.H.		
2	R4291775	1	· TUBE STRUCTURE, R.H.		
3	R4291770	4	· TUBE SUPPORT STRUCTURE, 10"		
4	R0980785	4	· CLAMP, HOSE - T-BOLT, 8-1/2"		
5	R4215136	12	· CLAMP, HOSE - T-BOLT, 10-1/2"		
6	R4158287	4	· CLAMP HALF, 10"		
7	R4215137	2	· HOSE, HUMP - 10" I.D. X 8" I.D. X 6"		
8	R4081294	2	· HOSE, HUMP - 10" I.D. X 6"		
9	N.P.N.		· NOT USED		
10	R0810991	8	· FLATWASHER, 1/2" X 1" X 1/8"		
11	R0824753	8	· BOLT, 5/16"-18 X 1-1/4"		
12	R0827222	8	· BOLT, 1/2"-13 X 2"		
13	N.P.N.		· NOT USED		
14	R0808489	8	· NUT, 1/2"-13		
	N.P.N.	REF	ENGINE, MTU T4 (PAGE 2.0-2.0A)		
		REF	DRAWING, ENGINE AIR INTAKE (R428323001)		

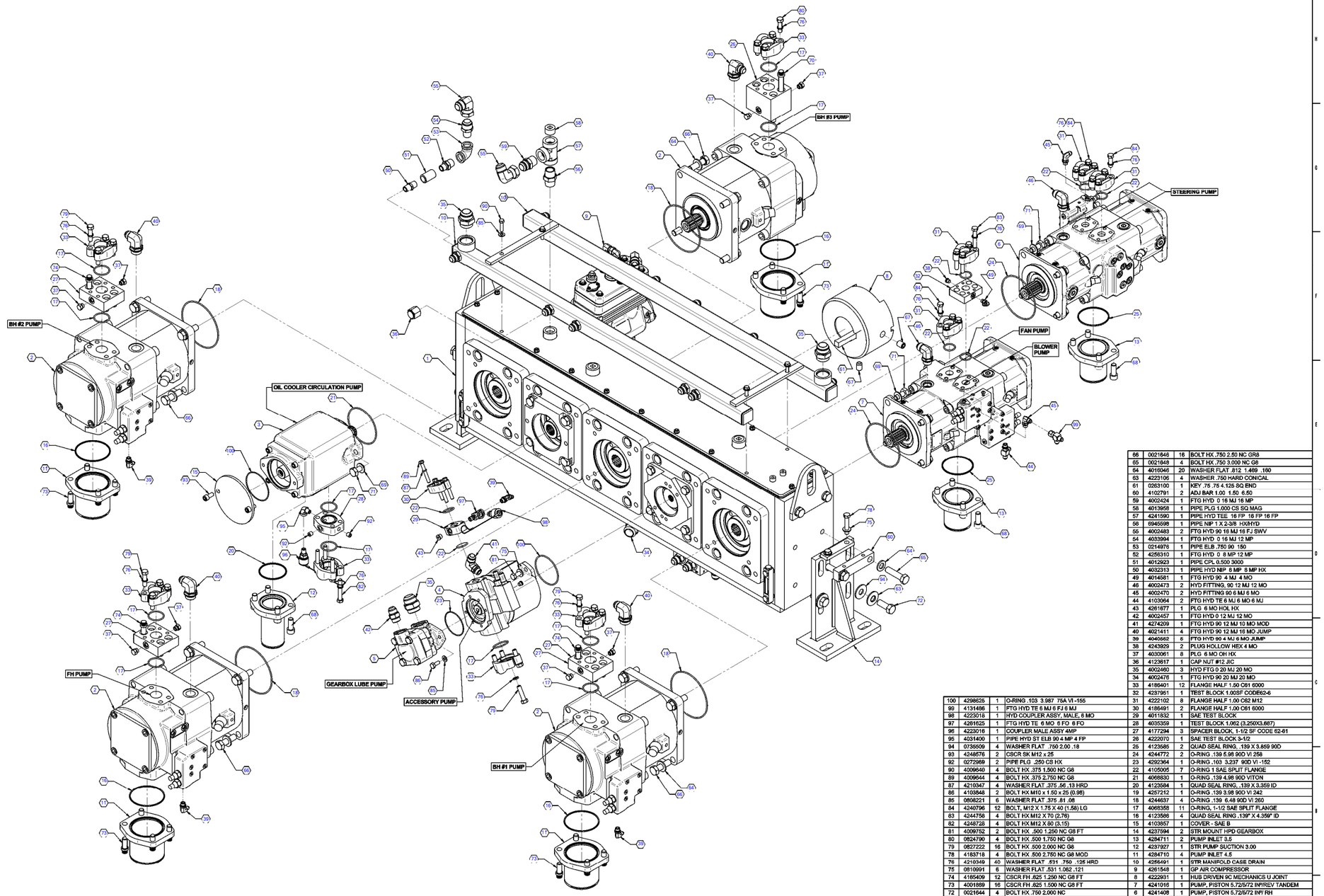
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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GEARBOX AND PUMPS



ITEM	PART NO	QTY	DESCRIPTION
100	4298625	1	O-RING .103 3.987 75A VI -155
99	4131486	1	FTG HYD TE 8 MJ 6 FJ 6 MJ
98	4223016	1	HYD COUPLER ASSY, MALE, 6 MO
97	4261625	1	FTG HYD TE 6 MO 6 FO 6 FO
96	4223016	1	COUPLER MALE ASSY 4MP
95	4031400	1	PIPE HYD ST ELB 90 4 MP 4 FP
94	0735509	4	WASHER FLAT .750 2.00 .18
93	4248576	2	CSCR SK M12 x 25
92	0272989	2	PIPE PLG .250 CS HX
90	4009640	4	BOLT HX .375 1.500 NC G8
89	4009644	4	BOLT HX .375 2.750 NC G8
87	4210347	4	WASHER FLAT .375 .56 .13 HRD
86	4103848	2	BOLT HX M10 x 1.50 x 25 (0.98)
85	0808221	6	WASHER FLAT .375 .81 .08
84	4240796	12	BOLT, M12 X 1.75 X 40 (1.58) LG
83	4244758	4	BOLT HX M12 X 70 (2.76)
82	4248728	4	BOLT HX M12 X 80 (3.15)
81	4009752	2	BOLT HX .500 1.250 NC G8 FT
80	0824790	4	BOLT HX .500 1.750 NC G8
79	0827222	16	BOLT HX .500 2.000 NC G8
78	4183718	4	BOLT HX .500 2.750 NC G8 MOD
76	4210349	40	WASHER FLAT .531 .750 .125 HRD
75	0810991	6	WASHER FLAT .531 1.062 .121
74	4185409	12	CSCR FH .625 1.250 NC G8 FT
73	4001889	16	CSCR FH .625 1.500 NC G8 FT
72	0021644	4	BOLT HX .750 2.000 NC
71	0025762	10	BOLT HX .625 1.500 NC G8
70	4001897	4	CSCR FH .625 3.500 NC G8 FT
69	4010925	10	WASHER FLAT .625 1.31 .12
68	4298610	12	CSCR SK M16 40 PC12.9 PL
67	4016006	2	SSCR HX .750 1.000 NC CUP

ITEM	PART NO	QTY	DESCRIPTION
66	0021646	16	BOLT HX .750 2.50 NC GR8
65	0021648	4	BOLT HX .750 3.000 NC G8
64	4016046	20	WASHER FLAT .812 1.469 .160
63	4223106	4	WASHER .750 HARD CONICAL
61	0263100	1	KEY .75 .75 4.125 SQ END
60	4102791	2	ADJ BAR 1.00 1.50 6.50
59	4002424	1	FTG HYD 0 16 MJ 16 MP
58	4013958	1	PIPE PLG 1.000 CS SQ MAG
57	4241590	1	PIPE HYD TEE 16 FP 16 FP 16 FP
56	6945598	1	PIPE NIP 1 X 2-3/8 HX/HYD
55	4002483	2	FTG HYD 90 16 MJ 16 FJ SWV
54	4033994	1	FTG HYD 0 16 MJ 12 MP
53	0214976	1	PIPE ELB .750 90 .150
52	4256310	1	FTG HYD 0 8 MP 12 MP
51	4012923	1	PIPE CPL 0.500 3000
50	4032313	1	PIPE HYD NIP 8 MP 8 MP HX
49	4014581	1	FTG HYD 90 4 MJ 4 MO
46	4002473	2	HYD FITTING, 90 12 MJ 12 MO
45	4002470	2	HYD FITTING 90 6 MJ 6 MO
44	4103064	2	FTG HYD TE 6 MJ 6 MO 6 MJ
43	4261677	1	PLG 6 MO HOL HX
42	4002457	1	FTG HYD 0 12 MJ 12 MO
41	4274209	1	FTG HYD 90 12 MJ 10 MO MOD
40	4021411	4	FTG HYD 90 12 MJ 16 MO JUMP
39	4040562	6	FTG HYD 90 4 MJ 6 MO JUMP
38	4243829	2	PLUG HOLLOW HEX 4 MO
37	4030061	8	PLG 6 MO OH HX
36	4123617	1	CAP NUT #12 JIC
35	4002460	3	HYD FTG 0 20 MJ 20 MO
34	4002476	1	FTG HYD 90 20 MJ 20 MO
33	4186401	12	FLANGE HALF 1.50 C61 6000
32	4237961	1	TEST BLOCK 1.00SF CODE62-6
31	4222102	8	FLANGE HALF 1.00 C62 M12
30	4186491	2	FLANGE HALF 1.00 C61 6000
29	4011832	1	SAE TEST BLOCK
28	4035359	1	TEST BLOCK 1.062 (3.250X3.687)
27	4177294	3	SPACER BLOCK, 1-1/2 SF CODE 62-61
26	4222070	1	SAE TEST BLOCK 3-1/2
25	4123585	2	QUAD SEAL RING .139 X 3.859 90D
24	4244772	2	O-RING .139 5.98 90D VI 258
23	4292364	1	O-RING .103 3.237 90D VI -152
22	4105005	7	O-RING 1 SAE SPLIT FLANGE
21	4066830	1	O-RING .139 4.98 90D VITON
20	4123584	1	QUAD SEAL RING .139 X 3.359 ID
19	4257212	1	O-RING .139 3.98 90D VI 242
18	4244637	4	O-RING .139 6.48 90D VI 260
17	4068358	11	O-RING, 1-1/2 SAE SPLIT FLANGE
16	4123586	4	QUAD SEAL RING .139" X 4.359" ID
15	4103857	1	COVER - SAE B
14	4237594	2	STR MOUNT HPD GEARBOX
13	4284711	2	PUMP INLET 3.5
12	4237927	1	STR PUMP SUCTION 3.00
11	4294710	4	PUMP INLET 4.5
10	4256491	1	STR MANIFOLD CASE DRAIN
9	4261548	1	GP AIR COMPRESSOR
8	4222931	1	HUB DRIVEN 9C MECHANICS U JOINT
7	4241016	1	PUMP, PISTON 5.72/5/72 IN*REV TANDEM
6	4241408	1	PUMP, PISTON 5.72/5/72 IN*/ RH
5	4297626	1	PUMP HYD VANE 36.4CC LH
4	4256463	1	PUMP-PISTN-45 CM* (2.75 IN*) LH
3	4273456	1	PUMP VANE 13.8 -B THRU-DRIVE
2	4237902	1	PUMP PISTON 15.86 IN3 REV
1	4256514	1	ASSY GEAR BOX

UNLESS OTHERWISE SPECIFIED TOLERANCES

DECIMAL DIM	DECIMAL TOL	FRACTIONAL XXX	FRACTIONAL TOL
X	+/-.060	0"-24"	+/- 1/16
XX	+/-.030	24"-48"	+/- 1/32
XXX	+/-.015	OVER 48"	+/- 3/16
ANGLES	+/-0.50	DECIMAL DIM	+/- 1

ALL DIMENSIONS ARE IN INCHES
• MACHINED CORNERS 180 X 45°
• UNSPEC FINISH OR MACH SURF TO BE 125 Ra OR BETTER
• WELD PROPS SHALL MEET THE MIN REQ OF BASE MATL

THIRD ANGLE PROJECTION SHEET

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DWN BY: RMR
CHK BY: MMR
APVD BY: JM
MATL:

KOMATSU MINING CORP.

TITLE: ASSY HYD PUMP GBOX L1350 G3

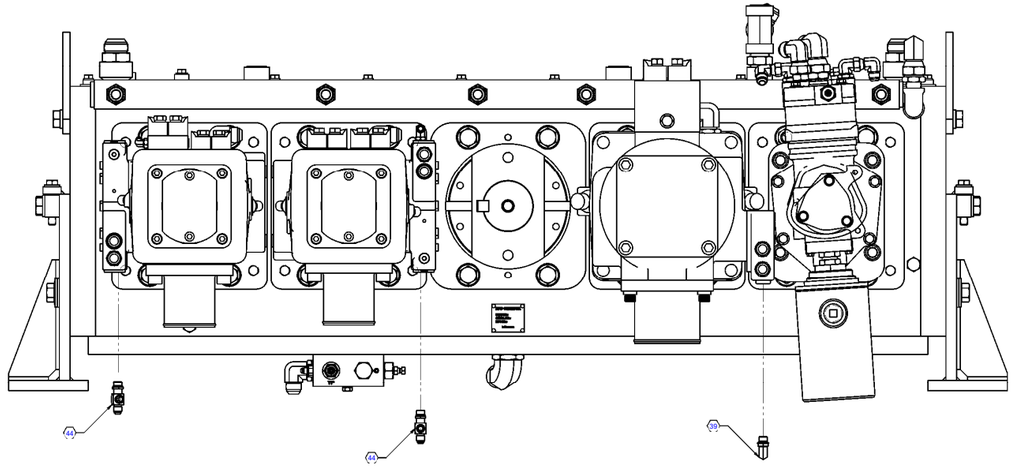
SIZE: E | SIM TO: MA | DWG NO: 4288366 | REV: 07

DO NOT SCALE | EST WT (LB): 4038.9 | SHEET 1 OF 2

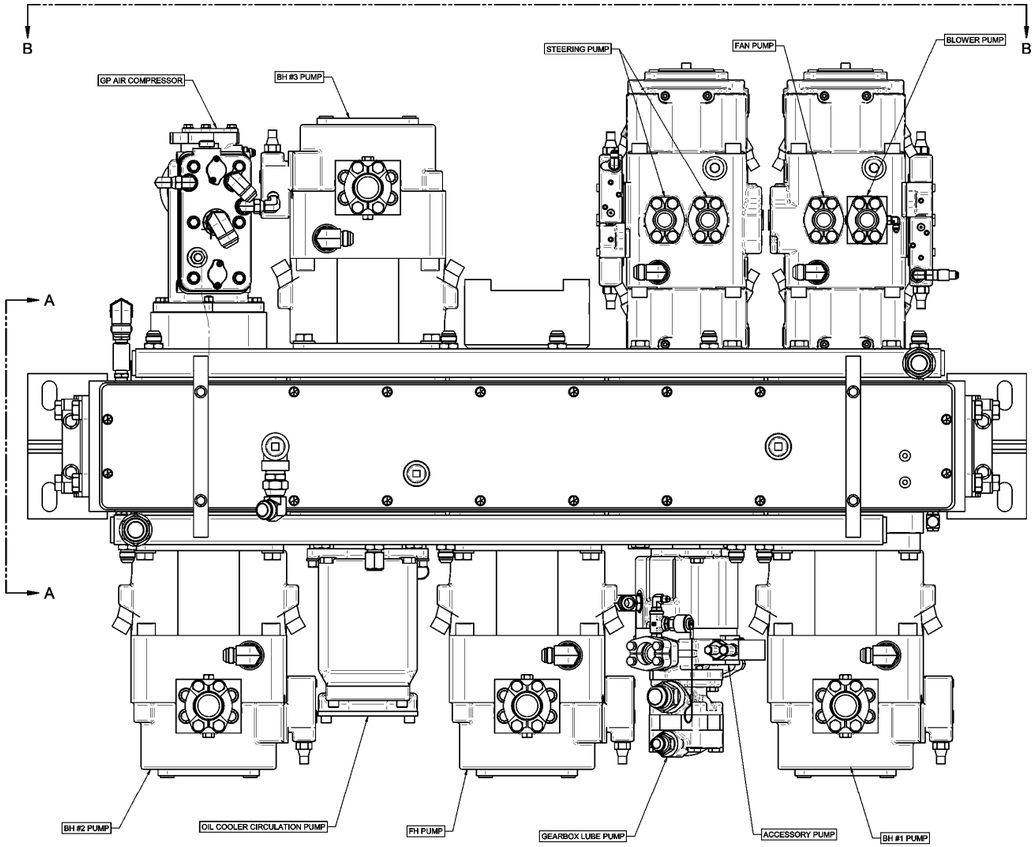
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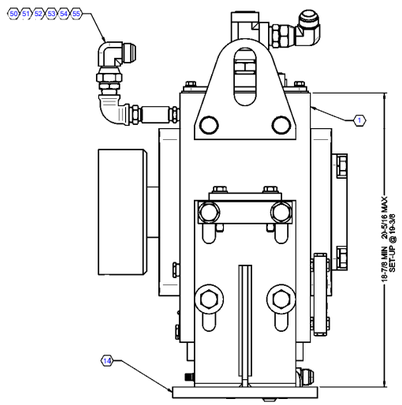
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GEARBOX AND PUMPS



VIEW B-B
ROTATED 180°





VIEW A-A
ROTATED CCW 90°
PUMPS REMOVED FOR CLARITY

SIZE	SIM TO	DWG NO	REV
E	M	4288366	E7
DO NOT SCALE	EST WT (LB) 45363	SHEET	2 OF 2

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288366		GEARBOX AND PUMPS		8/14/19
1	R4256514	1	· GEARBOX AND DRIVE ADAPTERS ASSEMBLY (PAGE 2.9-2.9B)		
2	R4237902	4	· PUMP, PISTON - 260 CM3 R.H.		
3	R4273456	1	· PUMP, VANE - 13.8 -B THRU-DRIVE		
4	R4256463	1	· PUMP, PISTON - 45 CM3 L.H.		
5	R4297626	1	· PUMP ASSEMBLY, VANE - 36.4CC L.H.		8/14/19
6	R4241408	1	· PUMP, PISTON - 95 CM3 (5.72 IN3) R.H.		
	R4243768	1	· · COMPENSATOR		
	R4244976	1	· · SEAL KIT, COMPENSATOR		
	R4243769	1	· · ROTARY GROUP, R.H.		
	R4243770	1	· · ROTARY GROUP, L.H.		
	R4243771	1	· · SHAFT, DRIVE		
	R4243772	1	· · SHAFT, DRIVE		
	R4243773	1	· · BEARING		
	R4243774	1	· · BEARING		
	R4243775	1	· · BEARING		
	R4243924	1	· · COVER, REAR SEAL		
	R4243776	1	· · SEAL KIT		
7	R4241016	1	· PUMP, PISTON - 95 CM3 (5.72 IN3) L.H.		
	R4243771	1	· · SHAFT, DRIVE		
	R4243772	1	· · SHAFT, DRIVE		
	R4243773	1	· · BEARING		
	R4243774	1	· · BEARING		
	R4243775	1	· · BEARING		
	R4243776	1	· · SEAL KIT		
	R4243777	1	· · COMPENSATOR		
	R4244976	1	· · SEAL KIT, COMPENSATOR		
	R4243778	1	· · ROTARY GROUP, L.H.		
	R4243779	1	· · ROTARY GROUP, R.H.		
	R4243924	1	· · COVER, REAR SEAL		
8	R4222931	1	· HUB, DRIVEN		
9	R4261548	1	· AIR COMPRESSOR (PAGE 2.9-2.9D)		
10	R4256491	1	· MANIFOLD, CASE DRAIN		
11	R4284710	4	· FLANGE STRUCTURE, PUMP - 4-1/2" O.D.		8/14/19
12	R4237927	1	· FLANGE STRUCTURE, PUMP - 3" O.D.		
13	R4284711	2	· FLANGE STRUCTURE, PUMP - 3-1/2" O.D.		8/14/19
14	R4237594	2	· MOUNT STRUCTURE, GEARBOX		
15	R4103857	1	· COVER PLATE		
16	R4123586	4	· SEAL, QUAD RING - 4-3/8" I.D. - BUNA N		
17	R4068358	11	· O-RING, 1-7/8" I.D. - POLYURETHANE		
18	R4244637	4	· O-RING, 6-1/2" I.D. - VITON		
19	R4257212	1	· O-RING, 4" I.D. - VITON		8/14/19
20	R4123584	1	· SEAL, QUAD RING - 3-3/8" I.D. - BUNA N		8/14/19
21	R4068830	1	· O-RING, 5" I.D. - VITON		
22	R4105005	7	· O-RING, 1-1/4" I.D. - POLYURETHANE		8/14/19
23	R4292364	1	· O-RING, 3-1/4" I.D. - VITON		8/14/19
24	R4244772	2	· O-RING, 6" I.D. - VITON		
25	R4123585	2	· SEAL, QUAD RING - 3-7/8" I.D. - BUNA N		
26	R4222070	1	· TEST BLOCK		
27	R4177294	3	· BLOCK, SPACER - 1-1/2" SF		
28	R4035359	1	· TEST BLOCK, 1-1/8"		
29	R4011832	1	· TEST BLOCK, 1"		
30	R4186491	2	· FLANGE HALF, 1"		
31	R4222102	8	· FLANGE HALF, 1"		8/14/19
32	R4237951	1	· TEST BLOCK, #16 SF		
33	R4186401	12	· FLANGE HALF, 1-1/2"		
34	R4002476	1	· ELBOW, #20 MO X 90 deg. X #20 MJ		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
35	R4002460	3	· ADAPTER, #20 MO X #20 MJ		
36	R4123617	1	· NUT, CAP - #12 JIC		
37	R4030061	8	· PLUG, #6 MO		8/14/19
38	R4243929	2	· PLUG, PIPE - #4, HEX CSK.		
39	R4040552	5	· ELBOW, #6 MO X 90 deg. X #4 MJ		8/14/19
40	R4021411	4	· ELBOW, #16 MO X 90 deg. X #12 MJ		
41	R4274209	1	· ELBOW, #12 MJ X 90 deg X #10 MO - MODIFIED		
42	R4002457	1	· ADAPTER, #12 MO X #12 MJ		
43	R4261677	1	· PLUG, #6 MO		
44	R4103064	2	· TEE, #6 MJ X #6 MO X #6 MJ		8/14/19
45	R4002470	2	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		8/14/19
46	R4002473	2	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
47	N.P.N.		· NOT USED		
48	N.P.N.		· NOT USED		
49	R4014581	1	· ELBOW, #4 MO X 90 deg. X #4 MJ - ADJ.		
50	R4032313	1	· NIPPLE, PIPE - 1/2", HEX		
51	R4012923	1	· COUPLING, PIPE - 1/2"		
52	R4256310	1	· ADAPTER, 1/2" MP X 3/4" MP		
53	R0214976	1	· ELBOW, 3/4" FP X 90 deg. X 3/4" FP		
54	R4033994	1	· ADAPTER, 3/4" MP X #16 MJ		
55	R4002483	2	· ELBOW, #16 FJ X 90 deg. X #16 MJ - SWIVEL		
56	R6945598	1	· NIPPLE, PIPE - 1"		
57	R4241590	1	· TEE, 1" FP		
58	R4013958	1	· PLUG, PIPE - 1" SQ. CSK. MAG.		
59	R4002424	1	· ADAPTER, 1" MP X #16 MJ		
60	R4102791	2	· BAR, ADJUSTING		
61	R0263100	1	· KEY, 3/4" X 3/4" X 4-1/8"		
62	N.P.N.		· NOT USED		8/14/19
63	R4223106	4	· FLATWASHER, 3/4" I.D. X 2" O.D. X 3/16" - CONICAL		
64	R4016046	20	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		8/14/19
65	R0021648	4	· BOLT, 3/4"-10 X 3"		8/14/19
66	R0021646	16	· BOLT, 3/4"-10 X 2-1/2"		
67	R4016006	2	· SETSCREW, 3/4"-10 X 1" - HEX CSK.		
68	R4298610	12	· CAPSCREW, 16 MM X 40		8/14/19
69	R4010925	10	· FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		8/14/19
70	R4001897	4	· CAPSCREW, 5/8"-11 X 3-1/2"		
71	R0025762	10	· BOLT, 5/8"-11 X 1-1/2"		8/14/19
72	R0021644	4	· BOLT, 3/4"-10 X 2"		8/14/19
73	R4001889	16	· CAPSCREW, 5/8"-11 X 1-1/2"		
74	R4165409	12	· CAPSCREW, 5/8"-11 X 1-1/4"		
75	R0810991	6	· FLATWASHER, 1/2" X 1" X 1/8"		8/14/19
76	R4210349	40	· FLATWASHER, 1/2" - HARDENED		
77	N.P.N.		· NOT USED		8/14/19
78	R4183718	4	· BOLT, 1/2"-13 X 2-3/4" - FULL THREAD		
79	R0827222	16	· BOLT, 1/2"-13 X 2"		
80	R0824790	4	· BOLT, 1/2"-13 X 1-3/4"		
81	R4009752	2	· BOLT, 1/2"-13 X 1-1/4"		
82	R4248728	4	· BOLT, 12 MM X 80		
83	R4244758	4	· BOLT, 12 MM X 1.75 X 70		
84	R4240796	12	· BOLT, 12 MM X 1.75 X 40 MM		
85	R0808221	6	· FLATWASHER, 3/8"		8/14/19
86	R4103848	2	· BOLT, 10 MM X 1.50 X 25		
87	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
88	N.P.N.		· NOT USED		8/14/19
89	R4009644	4	· BOLT, 3/8"-16 X 2-3/4"		
90	R4009640	4	· BOLT, 3/8"-16 X 1-1/2"		
91	N.P.N.		· NOT USED		
92	R0272969	2	· PLUG, PIPE - 1/4", HEX CSK.		8/14/19

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
93	R4248576	2	· CAPSCREW, 12 MM X 25 - HEX CSK.		
94	R0735509	4	· FLATWASHER, 3/4" I.D. X 2" X 1/8"		8/14/19
95	R4031400	1	· ELBOW, 1/4" FP X 90 deg. X 1/4" MP		8/14/19
96	R4223016	1	· COUPLING ASSEMBLY, QUICK - MALE X 1/4" MP		8/14/19
	R4222435	1	· · COUPLING, QUICK - MALE X 1/4" FP		8/14/19
	R4222437	1	· · CAP, QUICK COUPLING		8/14/19
	R4030298	1	· · NIPPLE, PIPE - 1/4", HEX		8/14/19
97	R4261625	1	· TEE, #6 MO X #6 FO X #6 FO		8/14/19
98	R4223018	1	· COUPLING ASSEMBLY, QUICK - MALE X #6 MO		8/14/19
	R4222435	1	· · COUPLING, QUICK - MALE X 1/4" FP		8/14/19
	R4222437	1	· · CAP, QUICK COUPLING		8/14/19
	R4051567	1	· · ADAPTER, 1/4" MP X #6 MJ		8/14/19
	R4133132	1	· · O-RING, 1/2" I.D. - POLYURETHANE		8/14/19
99	R4131486	1	· TEE, #6 MJ X #6 FJ X #6 MJ		8/14/19
100	R4298625	1	· O-RING, 4" I.D. - VITON		8/14/19
		REF	DRAWING, GEARBOX AND PUMPS (R428836607)		8/14/19

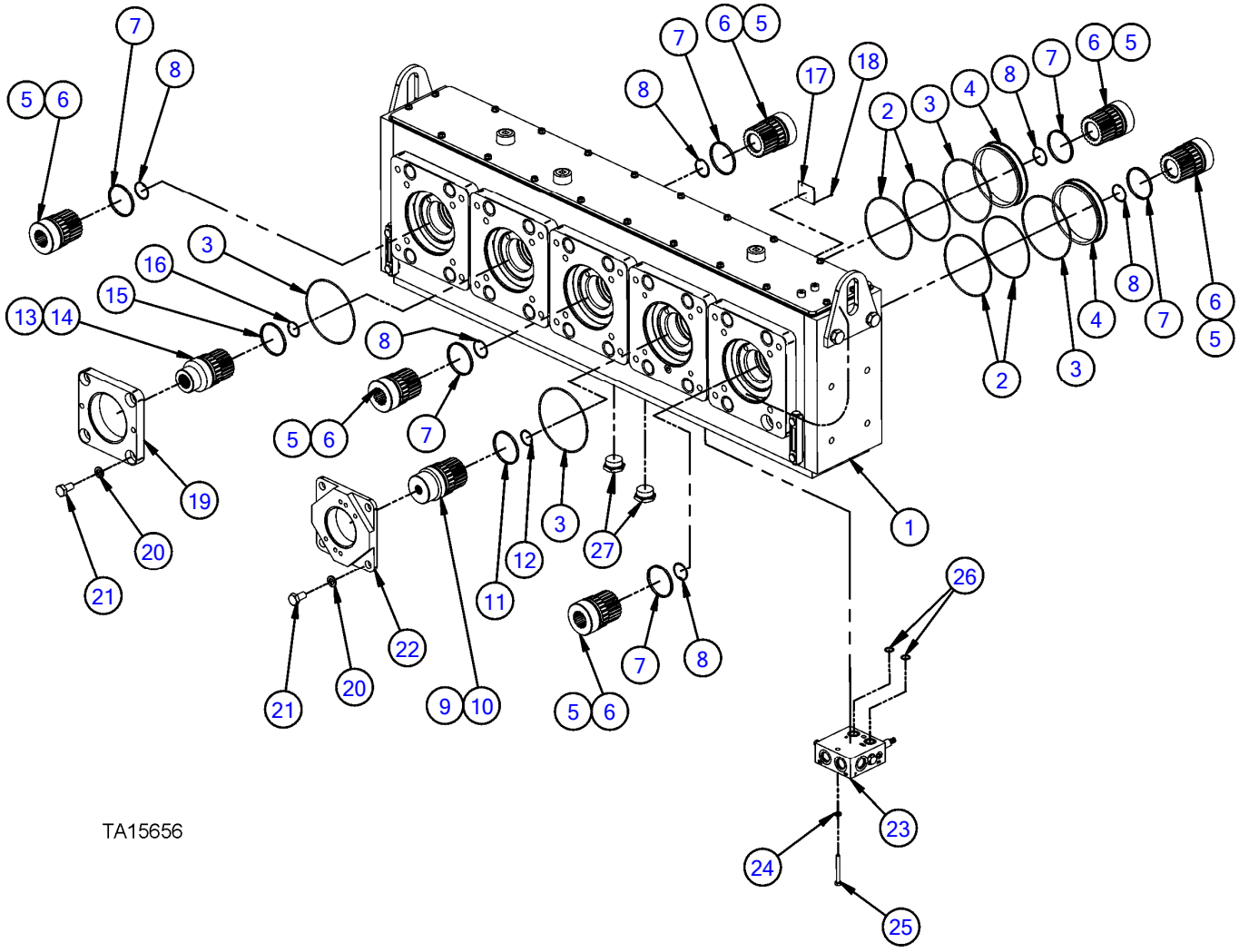
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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GEARBOX AND DRIVE ADAPTERS ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4256514		GEARBOX AND DRIVE ADAPTERS ASSEMBLY (-1)		8/14/19
1	R4236589	1	· GEARBOX ASSEMBLY (PAGE 2.9-2.9C)		
2	R4261666	4	· O-RING, 6-1/4" I.D. - VITON		
3	R4244637	7	· O-RING, 6-1/2" I.D. - VITON		8/14/19
4	R4219855	2	· ADAPTER SLEEVE		
5	R4237600	6	· ADAPTER SLEEVE		
6	R4234386	6	· · ADAPTER SLEEVE		
7	R4237595	6	· · RING, PISTON		
8	R4237596	6	· · RETAINING RING, SPIRAL		
9	R4241424	1	· ADAPTER SLEEVE		
10	R4241383	1	· · ADAPTER SLEEVE		
11	R4237595	1	· · RING, PISTON		
12	R4237602	1	· · RETAINING RING, SPIRAL		
13	R4250056	1	· ADAPTER, DRIVE		
14	R4250057	1	· · ADAPTER, DRIVE		
15	R4237595	1	· · RING, PISTON		
16	R4237602	1	· · RETAINING RING, SPIRAL		
17	R4233247	1	· DATA PLATE, GEARBOX		
18	R0181073	4	· SCREW, DRIVE - #6-32 X 3/16"		
19	R4219850	1	· ADAPTER PLATE, PUMP		
20	R0021541	8	· LOCKWASHER, 5/8"		
21	R0027595	8	· BOLT, 5/8"-11 X 1-1/4"		
22	R4261254	1	· ADAPTER MOUNT, PUMP		
23	R4274813	1	· VALVE ASSEMBLY, GEARBOX CONTROL - WITH FITTINGS		
	R4256410	1	· · VALVE ASSEMBLY, GEARBOX CONTROL (PAGE 8.29-8.29A)		
24	R0753123	2	· LOCKWASHER, 3/8"		
25	R4009645	2	· BOLT, 3/8"-16 X 3"		
26	R4002283	2	· O-RING, 15/16" I.D. - BUNA N		5/5/17
27	R4077099	2	· PLUG, #20 MO		
		REF	DRAWING, GEARBOX AND DRIVE ADAPTERS ASSEMBLY (R425651407)		8/14/19

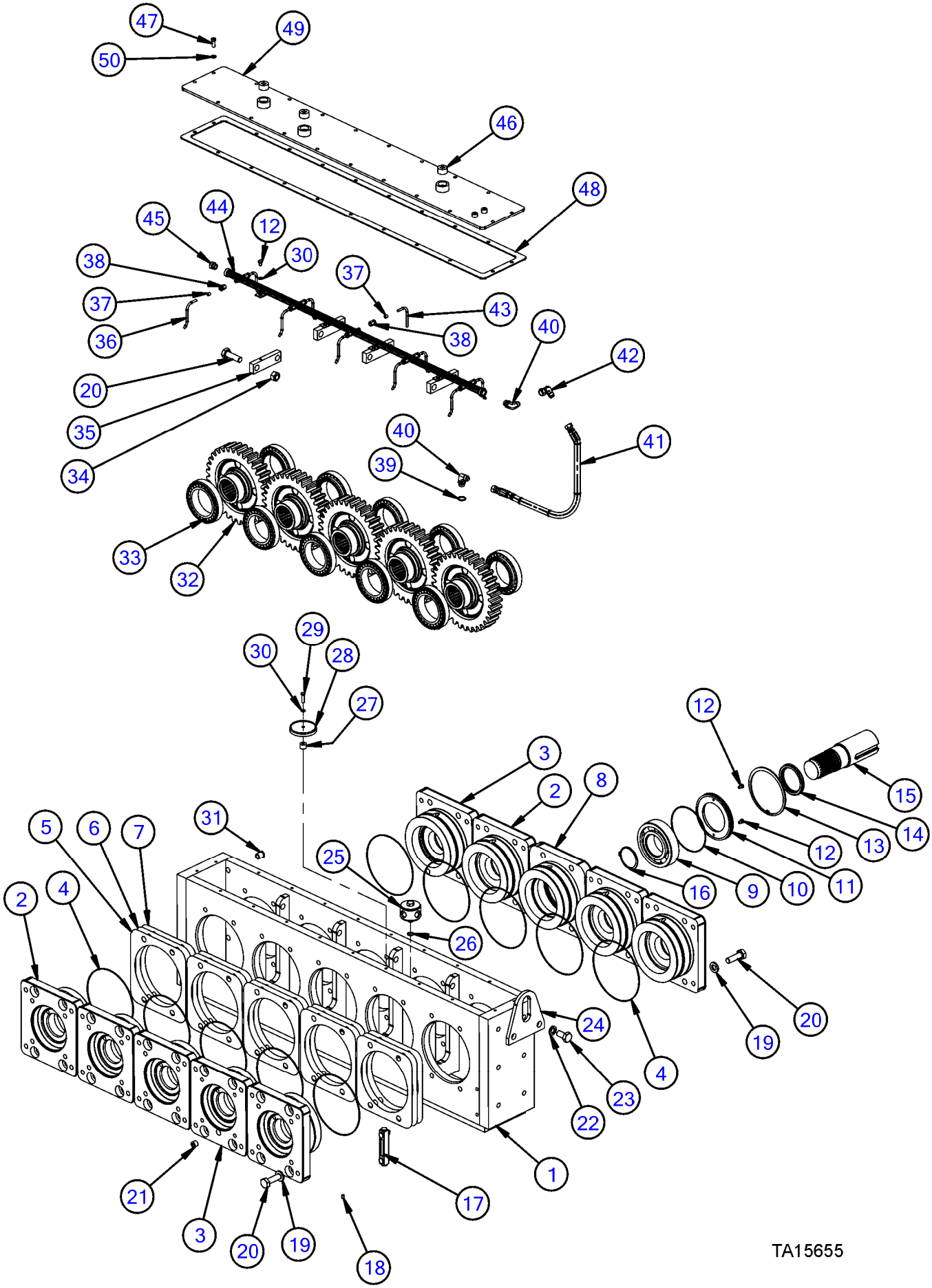
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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HYDRAULIC GEARBOX ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4236589		HYDRAULIC GEARBOX ASSEMBLY (-3)		6/20/19
1	R4236591	1	· HOUSING STRUCTURE, GEARBOX		
2	R4236586	7	· HOUSING, BEARING - OUTPUT		
3	R4253536	2	· HOUSING, BEARING - OUTPUT		
4	R4237597	10	· O-RING, 8-1/2" I.D. - VITON		
5	R4236583	AR	· SHIM, .020		
6	R4236581	AR	· SHIM, .003		
7	R4236582	AR	· SHIM, .010		
8	R4236585	1	· HOUSING, BEARING - INPUT		
9	R4177292	1	· BEARING, BALL		
10	R4261666	1	· O-RING, 6-1/4" I.D. - VITON		
11	R4215395	1	· PLATE, SEAL - INPUT SHAFT		
12	R0812252	6	· BOLT, 5/16"-18 X 1/2"		
13	R4177299	1	· RING, RETAINING - INTERNAL		
14	R4177295	1	· SEAL, OIL - 3-1/2" I.D.		
15	R4219848	1	· SHAFT, INPUT		
16	R4177298	1	· RING, RETAINING - EXTERNAL		
17	R4130648	2	· GAUGE, LIQUID LEVEL		
18	R0186425	2	· SETSCREW, 5/16"-18 X 1/2"		
19	R4148687	40	· FLATWASHER, 3/4" X 1-1/2" X 3/16"		
20	R0021646	48	· BOLT, 3/4"-10 X 2-1/2"		
21	R0184288	1	· PLUG, PIPE - 1/2", HEX CSK.		
22	R0021542	4	· LOCKWASHER, 3/4"		
23	R4009523	4	· BOLT, 3/4"-10 X 1-1/2"		
24	R4103072	2	· PLATE, LIFTING EYE		
25	R4161004	1	· DIFFUSER		
26	R4002282	1	· O-RING, 3/4" I.D. - BUNA N		
27	R4005904	2	· BLOCK, BOLT - 3/8"-16 X 5/8"		
28	R4103883	2	· CUP ASSEMBLY, MAGNETIC		
29	R0824753	2	· BOLT, 5/16"-18 X 1-1/4"		
30	R0264174	6	· LOCKWASHER, 5/16"		
31	R4223338	3	· PLUG, PIPE - 1/2", HEX HD.		6/20/19
32	R4236588	5	· GEAR, HPD		
33	R4177291	10	· BEARING, ROLLER - TAPERED		
34	R4090295	8	· LOCKNUT, 3/4"-16		
35	R4219851	4	· BRACE BAR		
36	R4237592	9	· TUBE, 1/4" O.D. X 4"		
37	R4102209	10	· FERRULE, TUBE - 1/4"		
38	R4102207	10	· NUT, FERRULE - 1/4"		
39	R4161011	1	· WASHER, 7/8" I.D. X 1-1/8" O.D.		
40	R4002471	2	· ELBOW, #8 MO X 90 deg. X #8 MJ - ADJ.		
41	R4082859	1	· HOSE ASSEMBLY, #8 X 26"		
42	R4002479	1	· ELBOW, #8 FJ X 90 deg. X #8 MJ		
43	R4219858	1	· TUBE, 1/4" O.D.		
44	R4219857	1	· TUBE STRUCTURE, MANIFOLD		
45	R4020769	1	· PLUG, #8 MO		
46	R4013958	3	· PLUG, PIPE - 1" SQ. CSK. MAG.		
47	R0810971	20	· BOLT, 3/8"-16 X 1"		
48	R4182926	1	· GASKET, COVER		
49	R4254480	1	· COVER PLATE		
50	R0753123	20	· LOCKWASHER, 3/8"		
	R4103739	REF	· SEALANT, HYDRAULIC - LOCTITE #569-31		
	R0459295	REF	· PRIMER, LOCTITE		
		REF	DRAWING, GEARBOX ASSEMBLY (R423658915)		6/20/19

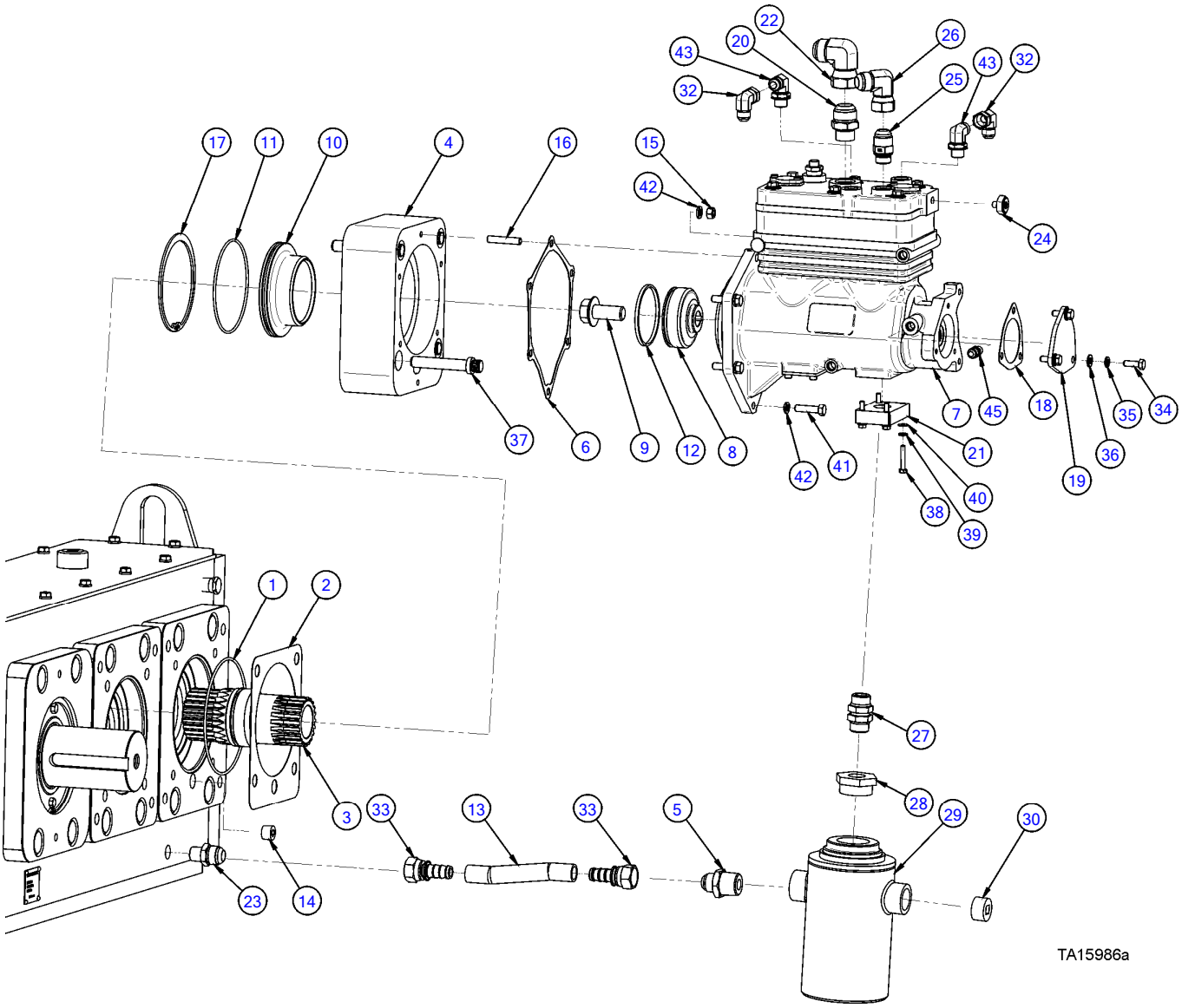
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR COMPRESSOR



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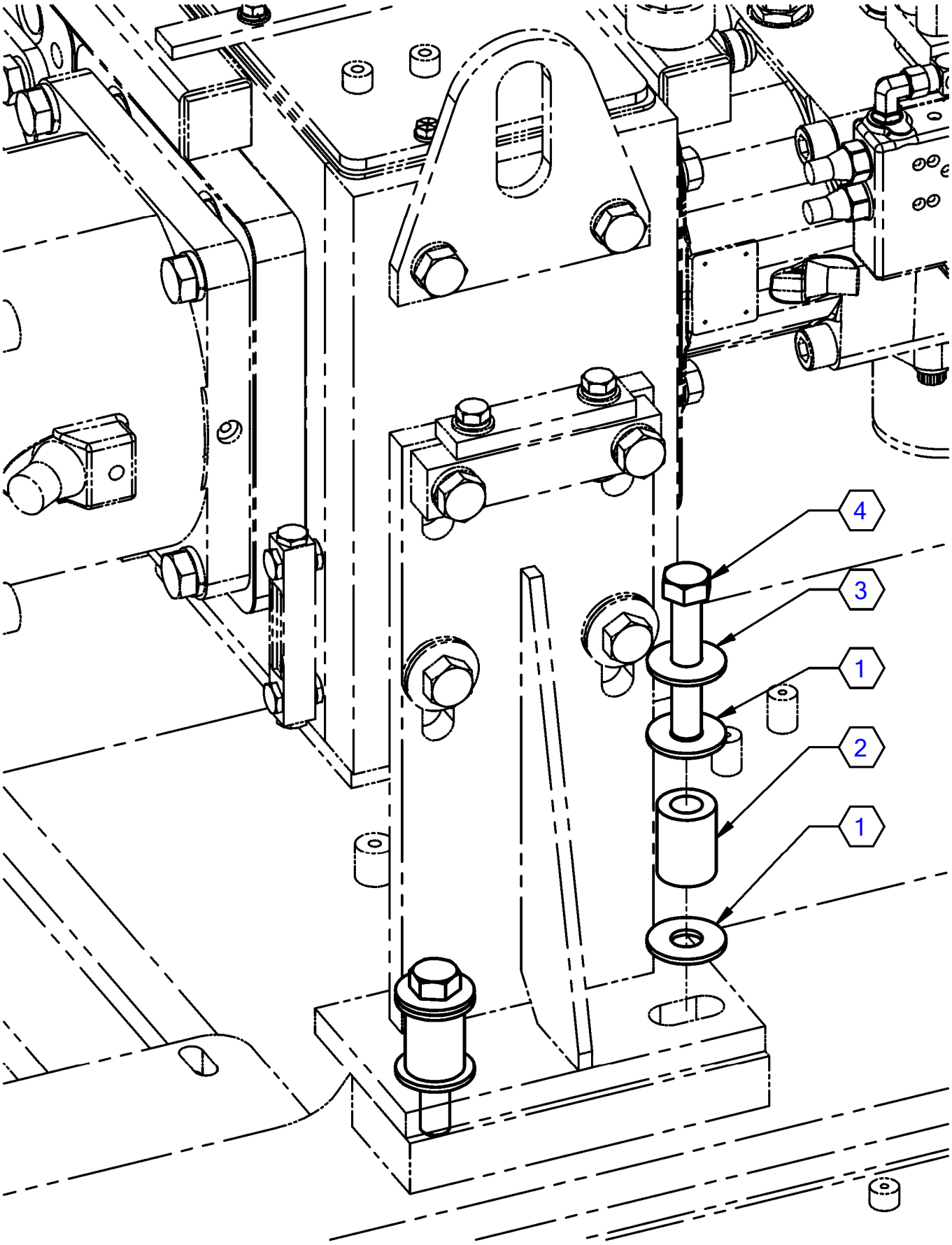
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4261548		AIR COMPRESSOR		6/20/19
1	R4244637	1	· O-RING, 6-1/2" I.D. - VITON		
2	R4253534	1	· GASKET, COMPRESSOR ADAPTER		
3	R4239181	1	· ADAPTER SLEEVE ASSEMBLY		
	R4239182	1	· · ADAPTER SLEEVE		
	R4237595	1	· · RING, PISTON		
	R4237602	1	· · RING, RETAINING - SPIRAL		
4	R4261526	1	· MOUNT ADAPTER, COMPRESSOR		
5	R4040561	1	· ADAPTER, HYDRAULIC FITTING - 1" MP X #12 MJ		
6	R4261527	1	· GASKET, AIR COMPRESSOR		
7	R4261543	1	· COMPRESSOR, AIR - 922, 31.6 CFM		
	R4270858	1	· · VALVE, SAFETY - 250 PSI, 16 MM X 1.5		1/29/13
8	R4261525	1	· HUB, DRIVE - AIR COMPRESSOR		
9	R4280312	1	· BOLT, 20 MM X 2.5 X 45		3/25/15
10	R4241145	1	· ADAPTER, SEAL		
11	R4068830	1	· O-RING, 5" I.D. - VITON		
12	R4241142	1	· RING, PISTON		
13	R4296210	1	· HOSE, 3/4" I.D. X 8"		6/20/19
14	R0184288	1	· PLUG, PIPE - 1/2", HEX CSK.		
15	R0812921	1	· NUT, 3/8"-16		
16	R4250533	1	· STUD, 3/8"-16 X 2"		
17	R4006444	1	· RING, RETAINING - INTERNAL		
18	R4261544	1	· GASKET, COVER - AIR COMPRESSOR		
19	R4261545	1	· COVER, AIR COMPRESSOR		
20	R4255252	1	· ADAPTER, HYDRAULIC FITTING - 27 MMO X #16 MJ		
21	R4261554	1	· COVER, CRANKCASE DRAIN		
	R4280311	1	· · SEAL KIT		
	N.P.N.	2	· · · GASKET		
	N.P.N.	1	· · · O-RING (NOT USED)		
	N.P.N.	1	· · · GASKET (NOT USED)		
22	R4002483	1	· ELBOW, #16 FJ X 90 deg. X #16 MJ - SWIVEL		
23	R4015753	1	· ADAPTER, HYDRAULIC FITTING - 1/2" MP X #12 MJ		
24	R4244790	1	· VALVE ASSEMBLY, CHECK - EXHAUST		
25	R4243562	1	· ADAPTER, HYDRAULIC FITTING - 22 MMO X #12 MJ		
26	R4002481	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
27	R4267478	1	· ADAPTER, HYDRAULIC FITTING - #12 MO X #12 MO		
28	R4243516	1	· REDUCER, HYDRAULIC FITTING - #12 FO X #24 MO		
29	R4254486	1	· FILTER ASSEMBLY, SUCTION		
	R4271055	1	· · FILTER, WASHABLE - 30 MESH		
	R4243926	1	· · O-RING, 3-1/4" I.D. - POLYURETHANE		
	R4254487	1	· · HOUSING STRUCTURE, FILTER		
30	R4013958	1	· PLUG, PIPE - 1" SQ. CSK. MAG.		
31	N.P.N.		· NOT USED		5/18/17
32	R4002479	2	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
33	R4186449	2	· ADAPTER, HYDRAULIC FITTING - #12 FJ X #12 HOSE		
34	R4267484	3	· BOLT, 8 MM X 12 MM		
35	N.P.N.		· NOT USED		6/20/19
36	R0753118	3	· FLATWASHER, 5/16"		
37	R4001897	4	· CAPSCREW, 5/8"-11 X 3-1/2"		
38	R4292365	4	· BOLT, 6 MM X 30 MM		6/20/19
39	N.P.N.		· NOT USED		6/20/19
40	R0239224	4	· FLATWASHER, #12 - SPECIAL		
41	R4009640	5	· BOLT, 3/8"-16 X 1-1/2"		
42	R0808221	6	· FLATWASHER, 3/8"		6/20/19
43	R4264809	2	· ELBOW, 18 MMO X 90 deg. X #8 MJ		
44	N.P.N.		· NOT USED		5/18/17
45	R4290372		· ADAPTER, HYDRAULIC FITTING - 12 MM X #6 MJ WITH BONDED WASHER		5/18/17

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4290373		· · WASHER, BONDED SEAL		5/18/17
			NOTE:		
	R4247807	REF	· WRENCH, AIR COMPRESSOR HUB		
		REF	DRAWING, AIR COMPRESSOR (R426154806)		6/20/19

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HYDRAULIC GEARBOX MOUNT GROUP



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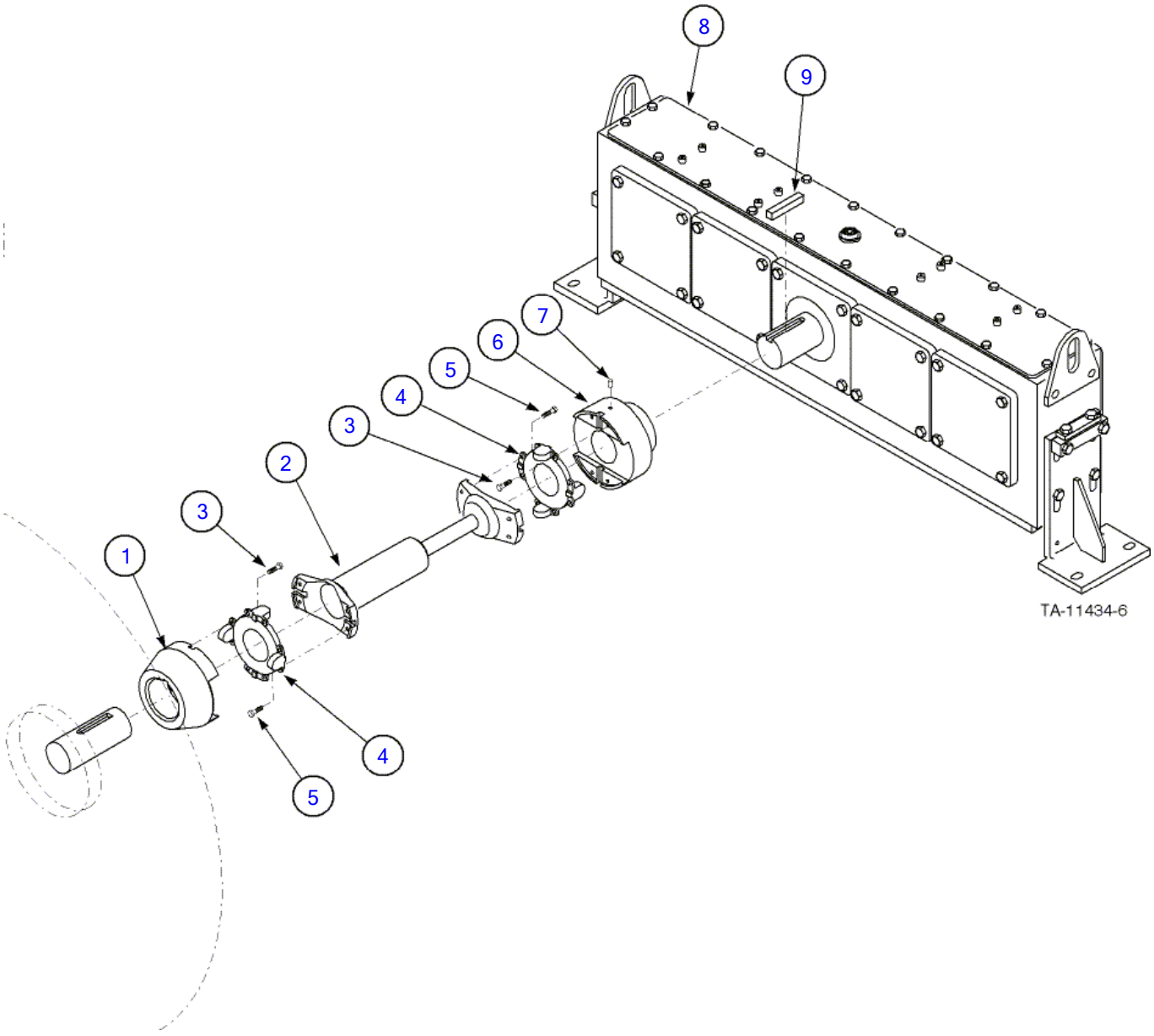
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288375		HYDRAULIC GEARBOX MOUNT GROUP		
1	R0735509	8	· FLATWASHER, 3/4" I.D. X 2" X 1/8"		
2	R4211004	4	· SPACER, 13/16" I.D. X 1-1/2" O.D. X 2"		
3	R4223106	4	· FLATWASHER, 3/4" I.D. X 2" O.D. X 3/16" - CONICAL		
4	R4267536	4	· BOLT, 3/4"-10 X 4-1/4"		
			DRAWING, GEARBOX AND PUMPS (R428837500)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			DRIVE COMPONENTS - POWER UNIT (PL-610)		11/16/15
1	N.P.N.	1	HUB, DRIVE - WITH KEYWAY, INSULATED (PAGE 3.1)		
	R4262883	1	DRIVE SHAFT GROUP		11/16/15
2	R4233127	1	· DRIVE SHAFT - 38-1/4" EXTENDED		
	R4276719	1	· · PAINT, SAFETY ORANGE		11/16/15
3	R4010411	8	· BOLT, 1/2"-20 X 2-1/2"		
4	R4223068	2	· SPIDER AND BEARING ASSEMBLY (U-JOINT)		
5	R4010411	8	· BOLT, 1/2"-20 X 2-1/2"		5/13/13
6	R4222931	1	HUB, DRIVEN		
7	R4016006	2	SETSCREW, 3/4"-10 X 1" - HEX CSK.		
8	N.P.N.	1	GEARBOX (PAGE 2.9-2.9A)		
9	R0263100	1	KEY, 3/4" X 3/4" X 4-1/8"		

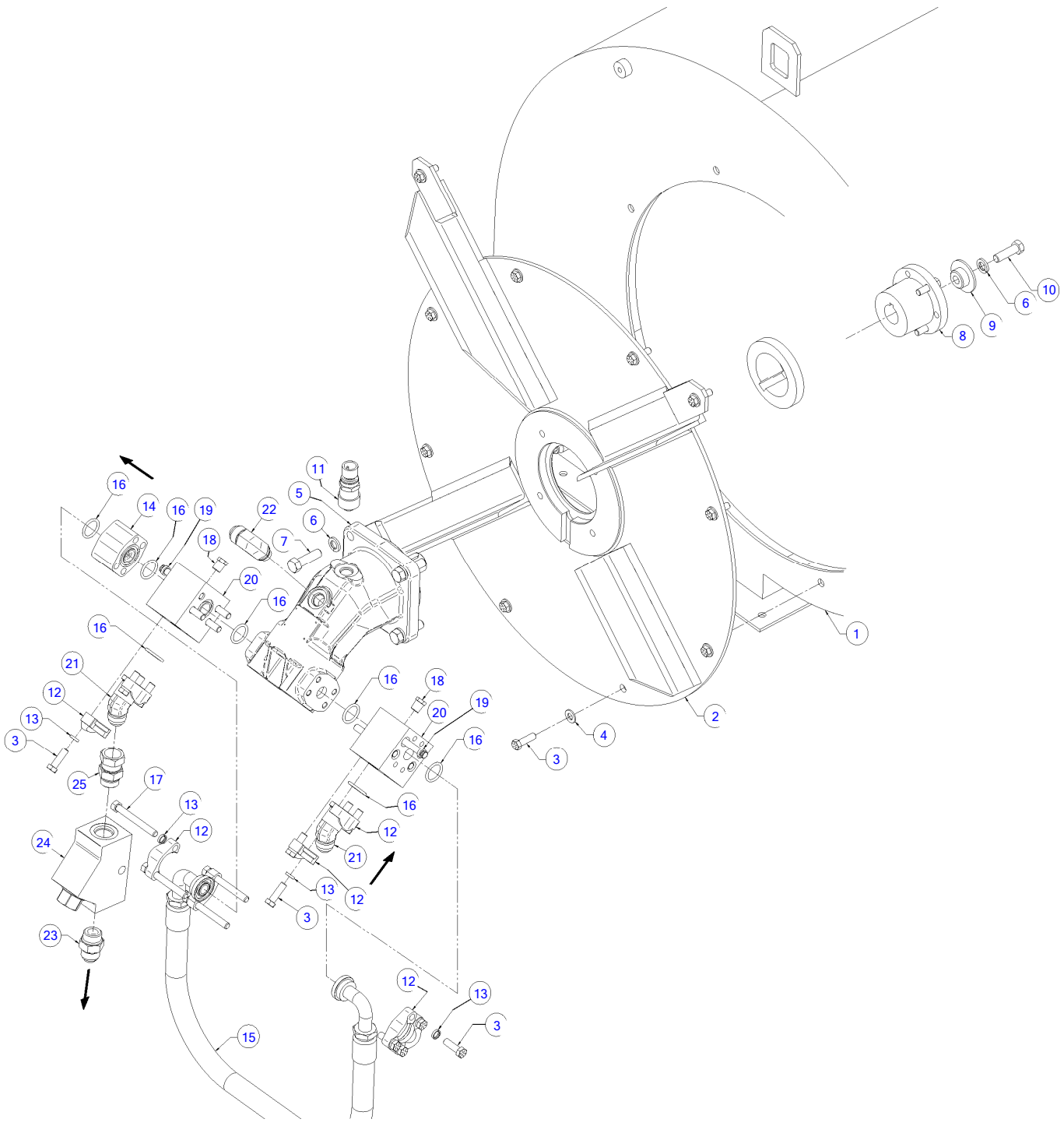
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BLOWER ASSEMBLY



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BLOWER ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271043		BLOWER ASSEMBLY		6/20/19
1	R4239476	1	· BLOWER STRUCTURE		4/15/11
	R4236835	1	· · WHEEL, BLOWER		
	R4239477	1	· · HOUSING, BLOWER		
	R4236836	1	· · INLET STRUCTURE, BLOWER		
2	R4267966	1	· MOUNT STRUCTURE, BLOWER MOTOR		
3	R0808476	23	· BOLT, 3/8"-16 X 1-1/4"		4/15/11
4	R0808221	11	· FLATWASHER, 3/8"		
5	R4267539	1	· MOTOR, PISTON - 45CC		4/8/16
	R4283125	1	· · SEAL KIT		8/7/15
6	R0801181	5	· LOCKWASHER, 1/2"		
7	R0824790	4	· BOLT, 1/2"-13 X 1-3/4"		
8	R4267980	1	· BUSHING, SPLIT TAPER - 30 MM		
9	R4271041	1	· WASHER, RETAINER		
10	R4240796	1	· BOLT, 12 MM X 1.75 X 40 MM		
11	R4267540	1	· SENSOR ASSEMBLY, SPEED		4/15/11
12	R4002219	8	· FLANGE HALF, 3/4"		4/15/11
13	R4210347	16	· FLATWASHER, 3/8" - HARDENED		4/15/11
14	R4271110	1	· VALVE ASSEMBLY, CHECK - 3/4", SF		4/15/11
	R4273351	1	· · VALVE, CHECK - 3/4", SF		2/25/12
	R4273347	1	· · O-RING, 1-5/16" I.D. - POLYURETHANE		2/25/12
	R4105004	1	· · O-RING, 1" I.D. - POLYURETHANE		2/25/12
15	R4285910	1	· HOSE ASSEMBLY, #12 X 33" - MDG		6/20/19
16	R4105004	7	· O-RING, 1" I.D. - POLYURETHANE		4/15/11
17	R0801173	4	· BOLT, 3/8"-16 X 3-1/4"		8/30/12
18	R4013779	2	· PLUG, PIPE - 1/4", HEX HD.		4/15/11
19	R4001842	8	· CAPSCREW, 3/8"-16 X 3"		4/15/11
20	R4271040	2	· BLOCK, MANIFOLD - MOTOR OUTLET		4/15/11
21	R4271108	2	· ELBOW, #12 SF X 45 deg. X #12 MJ		4/15/11
22	R4241246	1	· ELBOW, #8 MO X 90 deg. X #12 MJ - ADJ.		4/15/11
23	R4002457	1	· ADAPTER, #12 MO X #12 MJ		4/15/11
24	R4244896	1	· VALVE, CHECK - #12, 100 PSI		4/15/11
25	R4256406	1	· ADAPTER, #12 MO X #12 FJ		4/15/11
26	R4030823	1	· SEALANT/ADHESIVE, SILICONE - 10.7 OZ., CLEAR		6/8/11
		REF	DRAWING, BLOWER ASSEMBLY (R427104314)		6/20/19

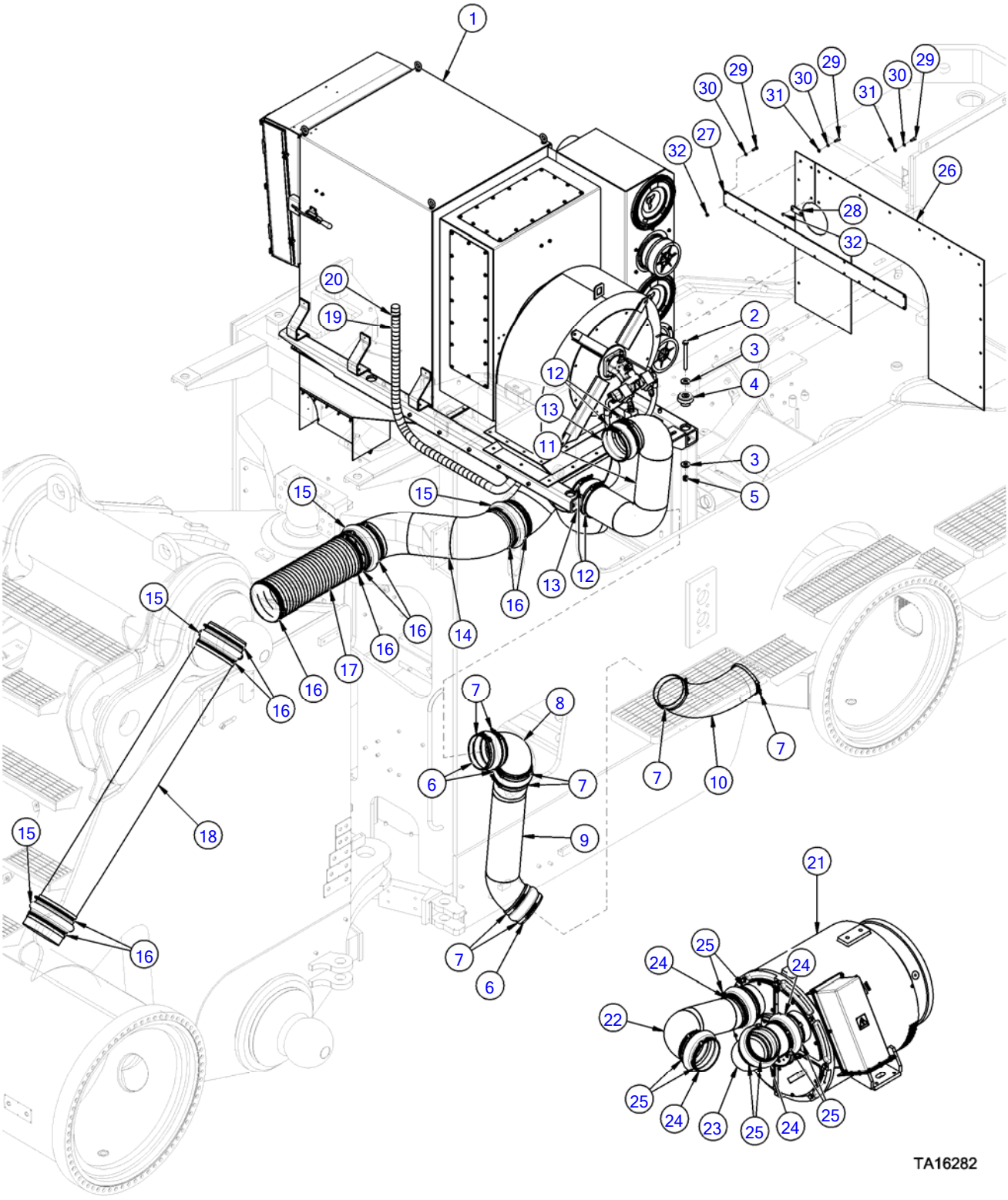
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR COOLING SYSTEM



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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4290959			AIR COOLING SYSTEM		
1	R4290960	1		· BLOWER AND AIR CLEANER ASSEMBLY (PAGE 2.1-2.1A)		
2	R4172139	4		· BOLT, 3/4"-10 X 7-1/2"		
3	R0711601	8		· FLATWASHER, 3/4" I.D. X 2-1/8" O.D. X 1/4"		
4	R4082921	4		· MOUNT, RUBBER - 2400 LBS LOAD RATING		
5	R4016018	4		· LOCKNUT, 3/4"-10 - NYLON		
6	R4188814	3		· HOSE, HUMP - 8" I.D. X 8"		
7	R4070824	8		· CLAMP, HOSE - WORM, 8-3/4"		
8	R4273893	1		· TUBE STRUCTURE, 8" X 80 deg. - UPPER		
9	R4289907	1		· TUBE STRUCTURE, 8" - LOWER		
10	R4294926	1		· HOSE, FLEX - 8" I.D. X 40"		
11	R4290971	1		· TUBE STRUCTURE, 8" - HIGH VOLTAGE CABINET		
12	R0857001	4		· CLAMP, HOSE - WORM, 8"		
13	R4015052	2		· HOSE, HUMP - 8" I.D. X 5"		
14	R4290977	1		· TUBE STRUCTURE, 10"		
15	R4081294	4		· HOSE, HUMP - 10" I.D. X 6"		
16	R4100446	10		· CLAMP, HOSE - WORM, 9-3/8"		
17	R4170788	1		· HOSE, FLEX - 10" I.D. X 35"		
18	R4272329	1		· TUBE, 10" O.D. X 78-5/8"		
19	R4170504	1		· TUBE, FLEX - 2" I.D. X 95", METAL		
20	R4016000	4		· CLAMP, U-BOLT - 2-1/4"		
	R0456631	2	FT	· RUBBER SPONGE SEAL, 1/4" X 3/4"		
21	N.P.N.	REF		· GENERATOR ASSEMBLY (PAGE 3.1-3.1A)		
22	R4276742	1		· TUBE STRUCTURE, 8" - PLENUM TO GENERATOR, R.H.		
23	R4276741	1		· TUBE STRUCTURE, 8" - PLENUM TO GENERATOR, L.H.		
24	R4015052	4		· HOSE, HUMP - 8" I.D. X 5"		
25	R0857001	8		· CLAMP, HOSE - WORM, 8"		
26	R4291877	1		· BARRIER, FLUID/FIRE CURTAIN		
27	R4291876	1		· SUPPORT PLATE, FIRE CURTAIN		
28	R4291879	1		· CLIP PLATE, FIRE CURTAIN		
29	R0808476	25		· BOLT, 3/8"-16 X 1-1/4"		
30	R0753123	25		· LOCKWASHER, 3/8"		
31	R0808221	19		· FLATWASHER, 3/8"		
32	R0812921	11		· NUT, 3/8"-16		

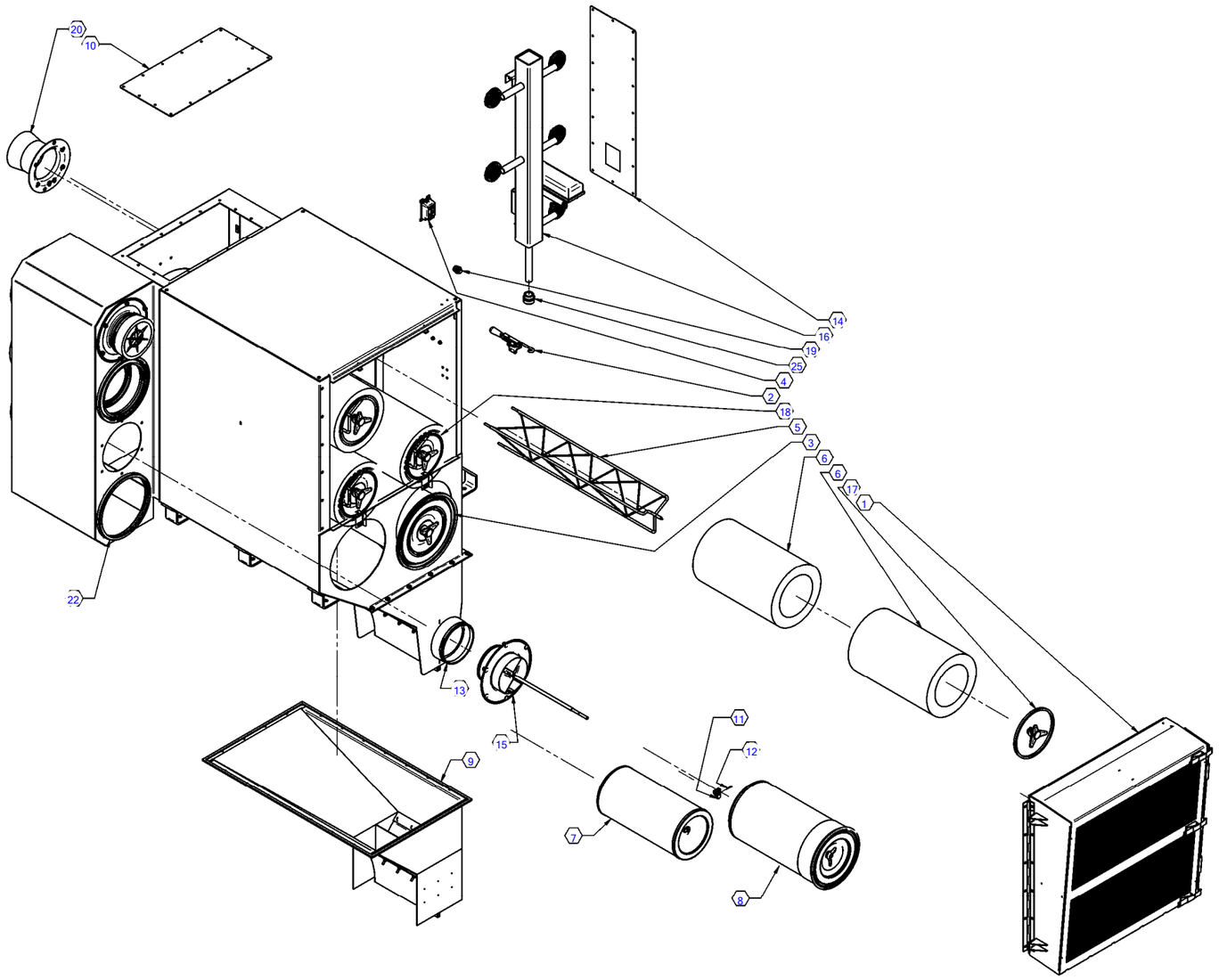
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

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AIR CLEANER SYSTEM



REFERENCE ITEM:

1. 4286223 PILOT VALVE

PAINT NOTES:

1. BLAST & PRIME WITH LET #426-4677
   DO NOT BLAST & PRIME MACHINED SURFACES
2. PAINT GLOSS BLACK WITH LET #427-4799
   DO NOT PAINT MACHINED SURFACES

ITEMS 21, 23 & 24 NOT SHOWN

ITEM	PART NO.	QTY	DESCRIPTION
25	4283802	1	CPLG GUARD
24	4280150	1	SOLENOID ENCL KIT NEMA 4 24VDC
23	4258769	1	SCHEMATIC AIR FILTER ASSY
22	4259540	2	EXTRA FILTER MOUNTING RING
21	4260506	1	GP HEATER KLENZ SOL MANIFOLD
20	4255199	5	VENTURI
19	4262887	1	CABLE ASSEMBLY
18	4234063	2	ACCESS COVER ASSY BOT
17	4234062	2	ACCESS COVER ASSY TOP
16	4272044	1	MANIFOLD ASSEMBLY LT-10
15	4233234	2	8 INCH FLANGE ASSEMBLY
14	4262940	1	SIDE ACCESS PANEL L-10
13	4240913	2	8" CAP RUBBER AIR INTAKE BOOT
12	4233236	2	PIN COTTER
11	4233235	2	KNOB INDICATION RETENTION
10	4262939	1	TOP ACCESS PANEL L-10
9	4262960	1	HOPPER RACK LTA3-10
8	4257047	2	OUTER SAFETY FILTER
7	4233232	2	INNER SAFETY FILTER
6	4219820	10	FILTER ELEMENT KLENZ
5	4234049	5	YOKE, FILTER MOUNT
4	4255418	1	PRESS TRANSMITTER 0-20 IN H20
3	4234060	1	ASSY COVER KNOB
2	4234064	1	CLAMP MODIFIED
1	4241609	1	ASSY DOOR INLET LT 10

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, .XX DECIMAL ±.03, .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO: L-1250

		DATE
DWN	khardy	11-03-2016
CHK	TMW	11-03-2016
ENGR	TMW	11-03-2016
PROD ENGR		
PROJ APPROVAL		
MATL	PURCHASED A	

JOYGLOBAL

ASSY KLENZ FILTER L-1250

SIZE D | DO NOT SCALE | DWG NO. 4287575 | REV 00

SCALE N/A | EST WT 1409.3 lbm | SHEET 1 OF 1

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4287575		AIR CLEANER SYSTEM - KLENZ		
1	R4241609	1	· INLET DOOR ASSEMBLY (PAGE 2.16-2.16B)		
2	R4234064	1	· LATCH ASSEMBLY, DOOR		
3	R4234060	2	· COVER ASSEMBLY WITH KNOB		
	R4234069	2	· · COVER, METAL		
	R4234068	2	· · GASKET, OUTSIDE EDGE - COVER		
	R4234070	2	· · GASKET, INSIDE - COVER, 3/8" X 1/2" X 10-1/8" ID		
	R4223086	2	· · KNOB, 3 LOBE		
	R4234067	2	· · WASHER GASKET, KNOB		
	R4234071	2	· · CLIP, RETAINER - KNOB		
4	R4255418	1	· PRESSURE TRANSMITTER, 0-20 PSIG		
5	R4234049	5	· YOKE, FILTER MOUNT		
6	R4219820	10	· ELEMENT, FILTER		
	R4234070	10	· · GASKET, INSIDE - COVER, 3/8" X 1/2" X 10-1/8" ID		
7	R4233232	2	· ELEMENT, SAFETY - 8"		
8	R4257047	2	· ELEMENT, SAFETY - OUTER, WITH WING NUT		
9	R4262960	1	· HOPPER ASSEMBLY		
	R4262895	1	· · HOPPER STRUCTURE		
	R4252585	1	· · GASKET, HOPPER STRUCTURE		
	R4264304	2	· · FLAPS, VALVE		
10	R4262939	1	· PANEL ASSEMBLY, ACCESS - TOP		
11	R4233235	2	· NUT ASSEMBLY, SAFETY ELEMENT INDICATOR - WITH GASKET WASHER		
12	R4233236	2	· PIN, COTTER		
13	R4240913	2	· CAP, RUBBER - AIR INTAKE, 8"		
14	R4262940	1	· PANEL ASSEMBLY, ACCESS - SIDE		
15	R4233234	2	· FLANGE ASSEMBLY, 8"		
16	R4272044	1	· MANIFOLD ASSEMBLY (PAGE 2.16-2.16C)		
17	R4234062	2	· COVER ASSEMBLY, FILTER - UPPER		
18	R4234063	2	· COVER ASSEMBLY, FILTER - LOWER		
19	R4262887	1	· CABLE ASSEMBLY		
20	R4255199	5	· VENTURI, PLASTIC		
21	R4260506	1	· HEATER GROUP, KLENZ SOLENOID MANIFOLD		
22	R4259540	2	· RING STRUCTURE, FILTER MOUNTING		
23	R4258769	1	· SCHEMATIC, AIR FILTER ASSEMBLY		
24	R4280150	1	· SOLENOID REPAIR KIT		
	R4234074	1	· · COIL, REPLACEMENT		
	R4219822	1	· · REBUILD KIT, SOLENOID VALVE		
	R4278233	1	· · REPAIR KIT, PULSE VALVE		
25	R4283802	1	· GAURD COUPLING		
	R4286223	REF	VALVE, PILOT - 24V DC		
	R4286128	REF	TRANSMITTER, TEMPERTURE - -58F TO 185F		
	R4263018	REF	COUPLING, PIPE		
	R4264953	REF	ULTRASONIC LEAK DETECTOR		
			NOTE:		
			· FOR OPERATION AND SERVICE INSTRUCTIONS SEE THE		
			· AIR CLEANER SYSTEM INSTALLATION AND OPERATIONS		
			· MANUAL IN THE SERVICE MANUAL.		
		REF	DRAWING, KLENZ FILTER (R428757500)		

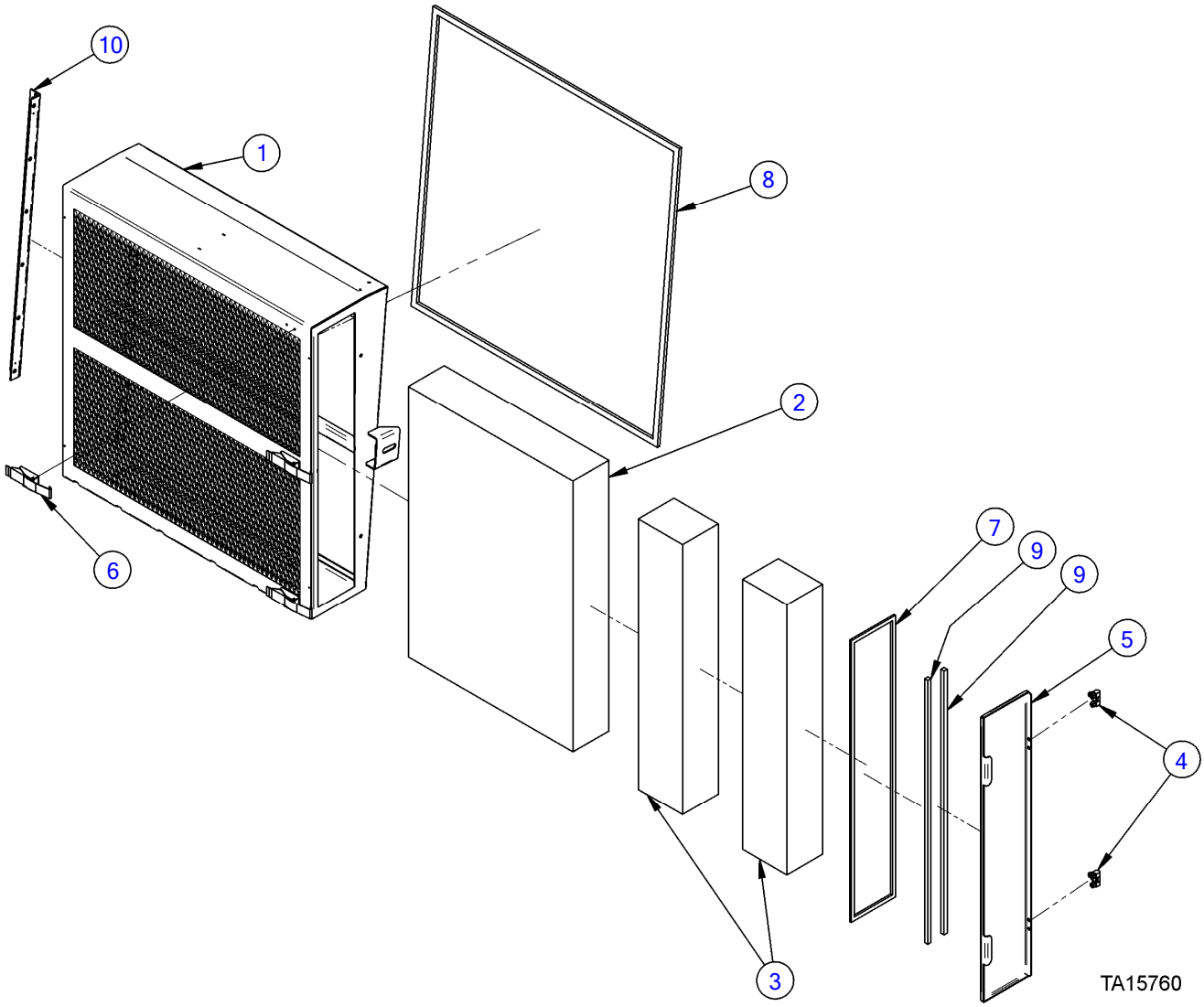
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR CLEANER INLET DOOR ASSEMBLY



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AIR CLEANER INLET DOOR ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4241609		INLET DOOR ASSEMBLY		7/3/13
1	R4262908	1	· DOOR HOUSING		
2	R4227743	1	· DRIFT ELIMINATOR, 25-1/4" X 36"		
3	R4227744	2	· DRIFT ELIMINATOR, 6-3/4" X 36"		
4	R4262885	2	· HINGE		
5	R4234050	1	· DOOR, ACCESS		
6	R4231033	3	· LATCH, ACCESS DOOR - DRIFT ELIMINATOR		
7	R4264303	1	· SEAL, DOOR - 1/2" X 1/4"		
8	R4262920	1	· SEAL, DOOR - 3/4" X 3/8"		
9	R4234080	2	· SEAL, DOOR - 1/2" X 1/2" X 52"		
10	R4262886	1	· HINGE, DOOR HOUSING		
			NOTE:		
			· FOR OPERATION AND SERVICE INSTRUCTIONS SEE THE		
			· AIR CLEANER SYSTEM INSTALLATION AND OPERATIONS		
			· MANUAL IN THE SERVICE MANUAL.		
		REF	DRAWING, INLET DOOR ASSEMBLY (R424160901)		7/3/13

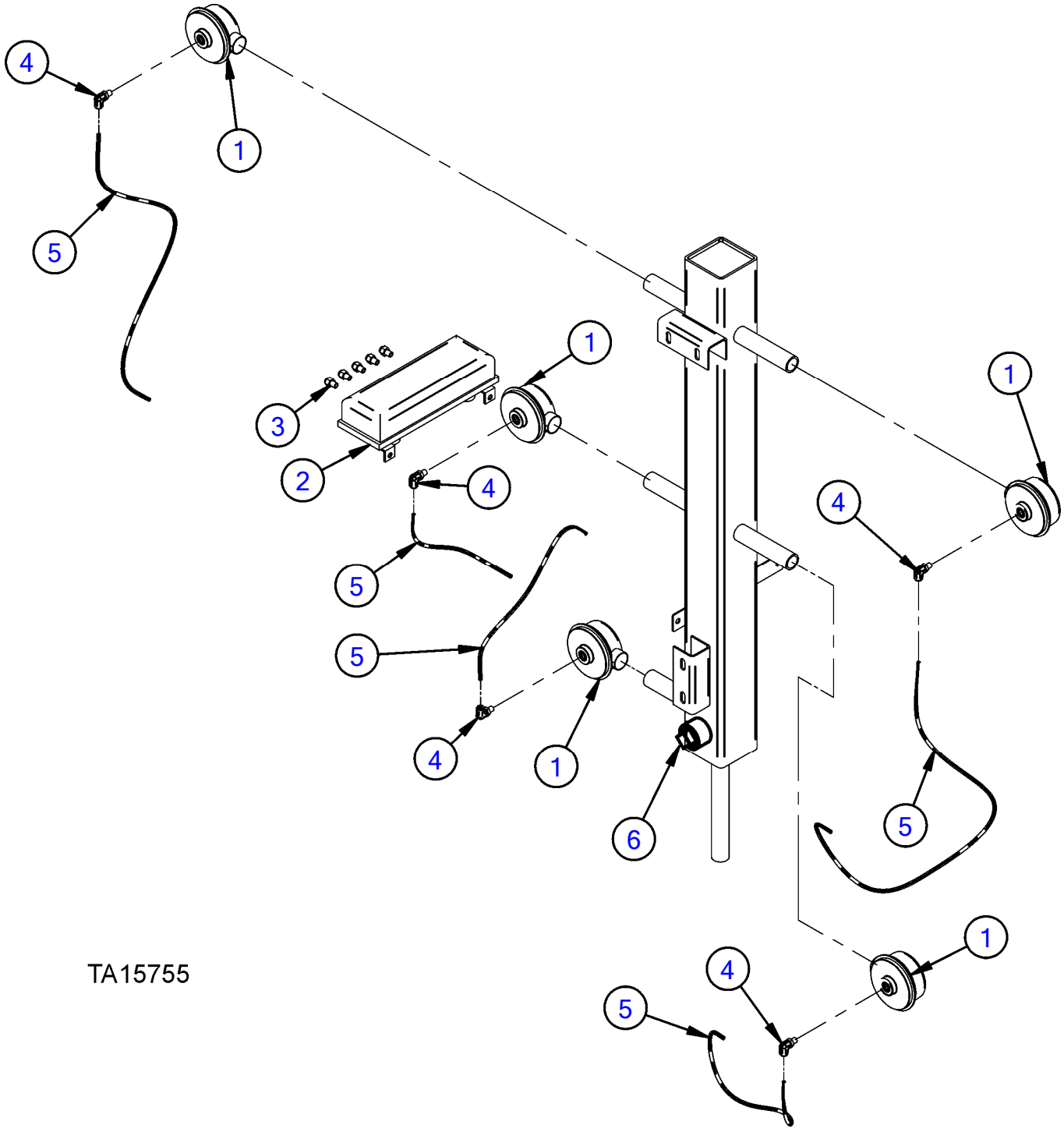
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR CLEANER MANIFOLD ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4272044		AIR CLEANER MANIFOLD ASSEMBLY		5/2/17
1	R4278232	5	· VALVE, PULSE - SQUARE BODY ROUND DIAPHRAGM (PAGE 2.16-2.16D)		1/9/17
2	R4234077	1	· SOLENOID ENCLOSER, 7 VALVE		
	R4262904	5	· · VALVE, SOLENOID		1/9/17
	R4234074	5	· · · COIL, REPLACEMENT		1/9/17
3	R4262894	5	· CONNECTOR, MALE - 1/4" O.D. PLASTIC		
4	R4262892	5	· CONNECTOR, ELBOW - 1/4" O.D. PLASTIC		
5	R4262958	1	· TUBING, 1/4" O.D.		
6	R4262929	1	· PLUG		
	R4286223	REF	VALVE ASSEMBLY, SOLENOID - 24V (OPTIONAL)	5	5/2/17
	R4245973	REF	CABLE ASSEMBLY, EURO TO OPEN - 6M (OPTIONAL)	5	5/2/17
		REF	DRAWING, MANIFOLD ASSEMBLY (R427204400)		5/28/13

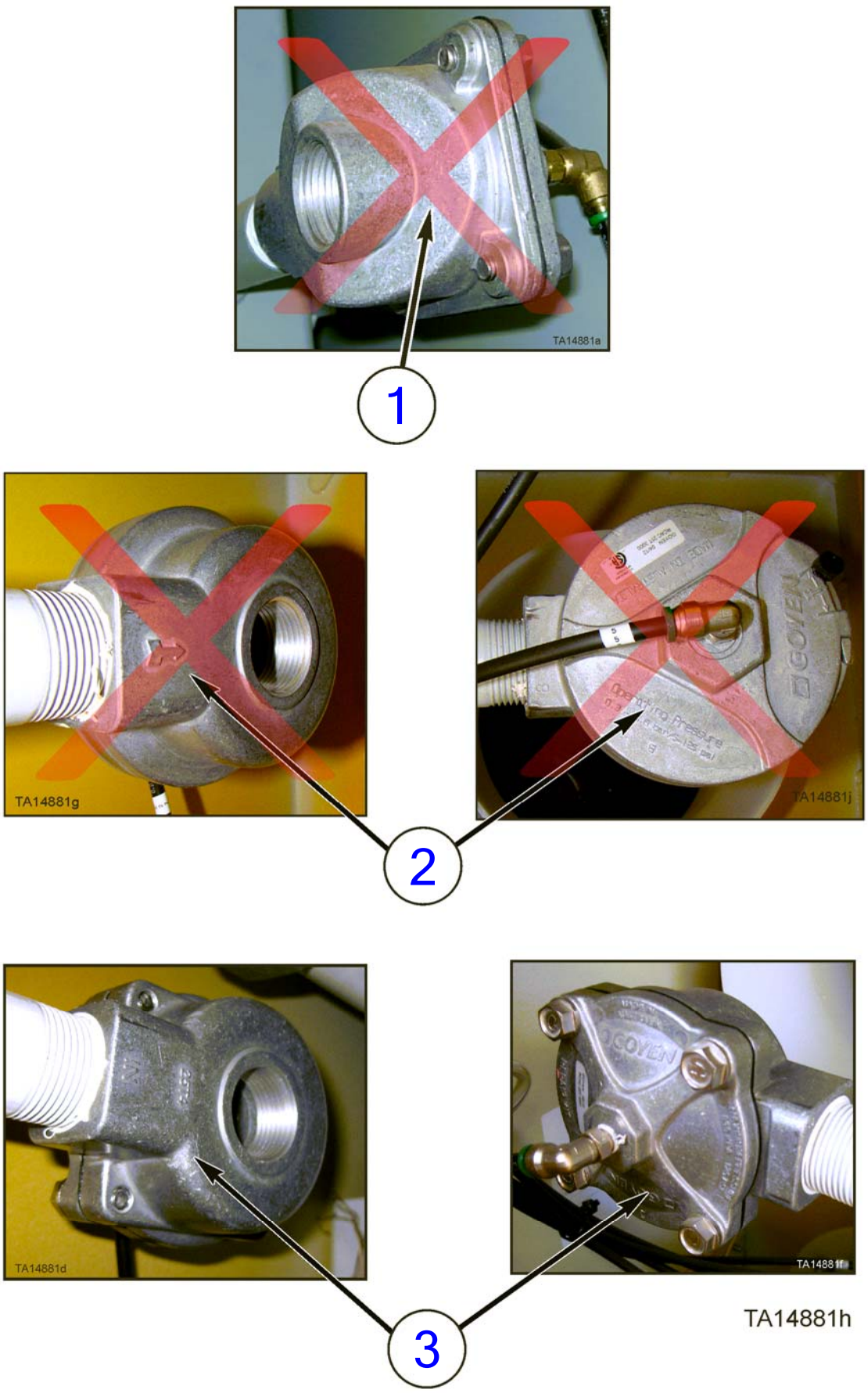
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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PULSE VALVE ASSEMBLY



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PULSE VALVE ASSEMBLY

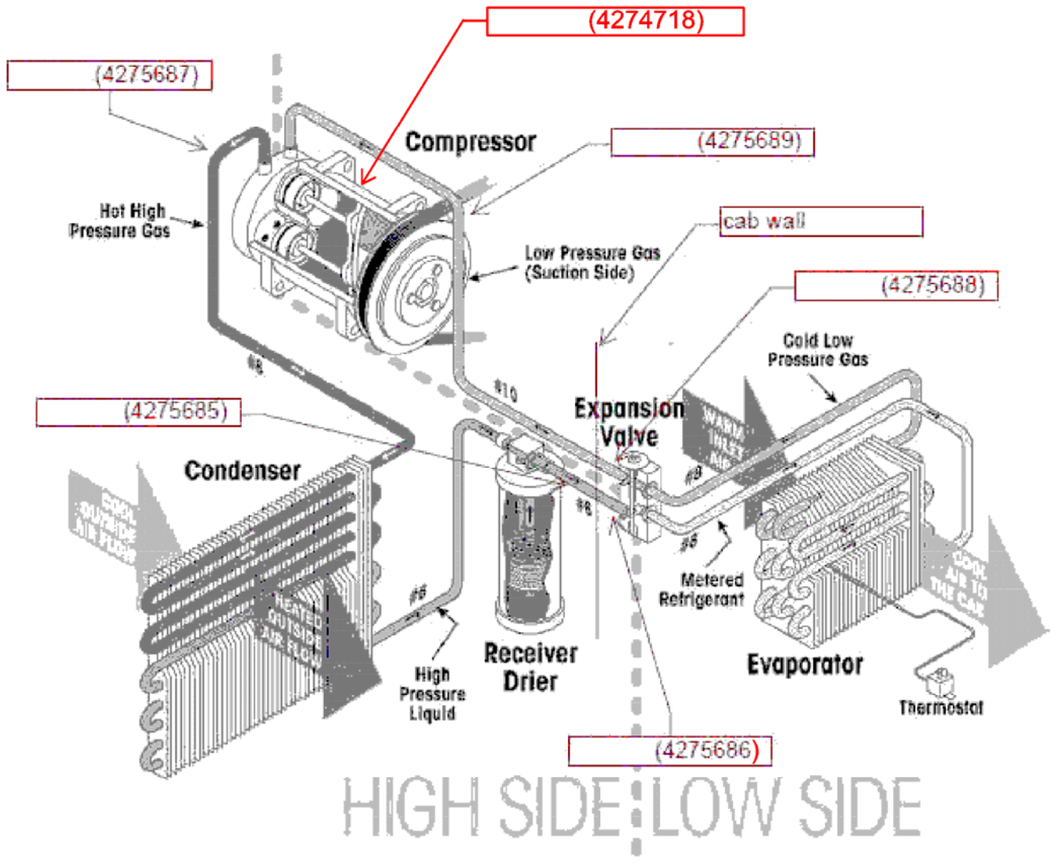
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			PULSE VALVE ASSEMBLY (PL-653)		
1	R4219823	1	VALVE, PULSE - SQUARE DIAPHRAGM (SEE NOTE)		
	R4234073	1	· REPAIR KIT, PULSE VALVE		
2	R4255196	1	VALVE, PULSE - ROUND DIAPHRAGM (SEE NOTE)		
	R4259368	1	· REPAIR KIT, PULSE VALVE		
3	R4278232	1	VALVE, PULSE - SQUARE BODY ROUND DIAPHRAGM		
	R4278233	1	· REPAIR KIT, PULSE VALVE		
			NOTE:		
			R4219823 AND R4255196 ARE OBSOLETE. IF ONE OF		
			THESE ARE ORDERED YOU WILL RECEIVE R4278232.		
			VALVE REPAIR KITS ARE AVAILABLE FOR ALL VALVES.		
			R4278232 IS THE REPLACEMENT FOR THE EARLY VALVES.		
			THE PULSE VALVE ASSEMBLIES ARE INTERCHANGEABLE		
			AND CAN BE REPLACED INDIVIDUALLY IN ANY AIR		
			CLEANER ASSEMBLY.		

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PLUMBING SCHEMATIC

BOM IS FOR REPLACEMENT PARTS ONLY

ITEM	PART NO.	QTY	DESCRIPTION
15	4292915	1	INSTRUCTIONS, KOMATSU AUTO TEMP. CTRL
14	4292917	1	HARNESS W/RELAYS
13	4274650	1	AC USER CONTROL MOUNT
12	4275689	1	HOSE #12 CAB TO COMPRESSOR
11	4275688	1	HOSE #12 CAB TO EVAPORATOR
10	4275687	1	HOSE #8 COMP TO COND
9	4275686	1	HOSE #6 CAB TO EVAPORATOR
8	4275685	1	HOSE #6 COND TO CAB
7	4268484	1	WATER VALVE 12/24V
6	4268489	1	TEMP SENSOR W/DEUTSCH PLUG
5	4292914	1	ASSY, MODULE 12V/24V ATC ECU
4	4274341	1	CONTROL HEAD ASSEMBLY
3	4274718	1	ASSY AC COMPRESSOR MOTOR
2	4275683	1	CONDENSER
1	4275682	1	HEATER AIR CONDITIONER

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°; FRACTIONS ±1/16; .XX DECIMAL ±.03; .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

USED ON: 4274633

		DATE
DWN	J.MARTIN	9-11-18
CHK	KD	9-11-18
ENGR	JS	9-11-18
PROD ENGR	JS	9-11-18
PROJ APPROVAL		
MATL	PURCHASED A	

LeTourneau Technologies™

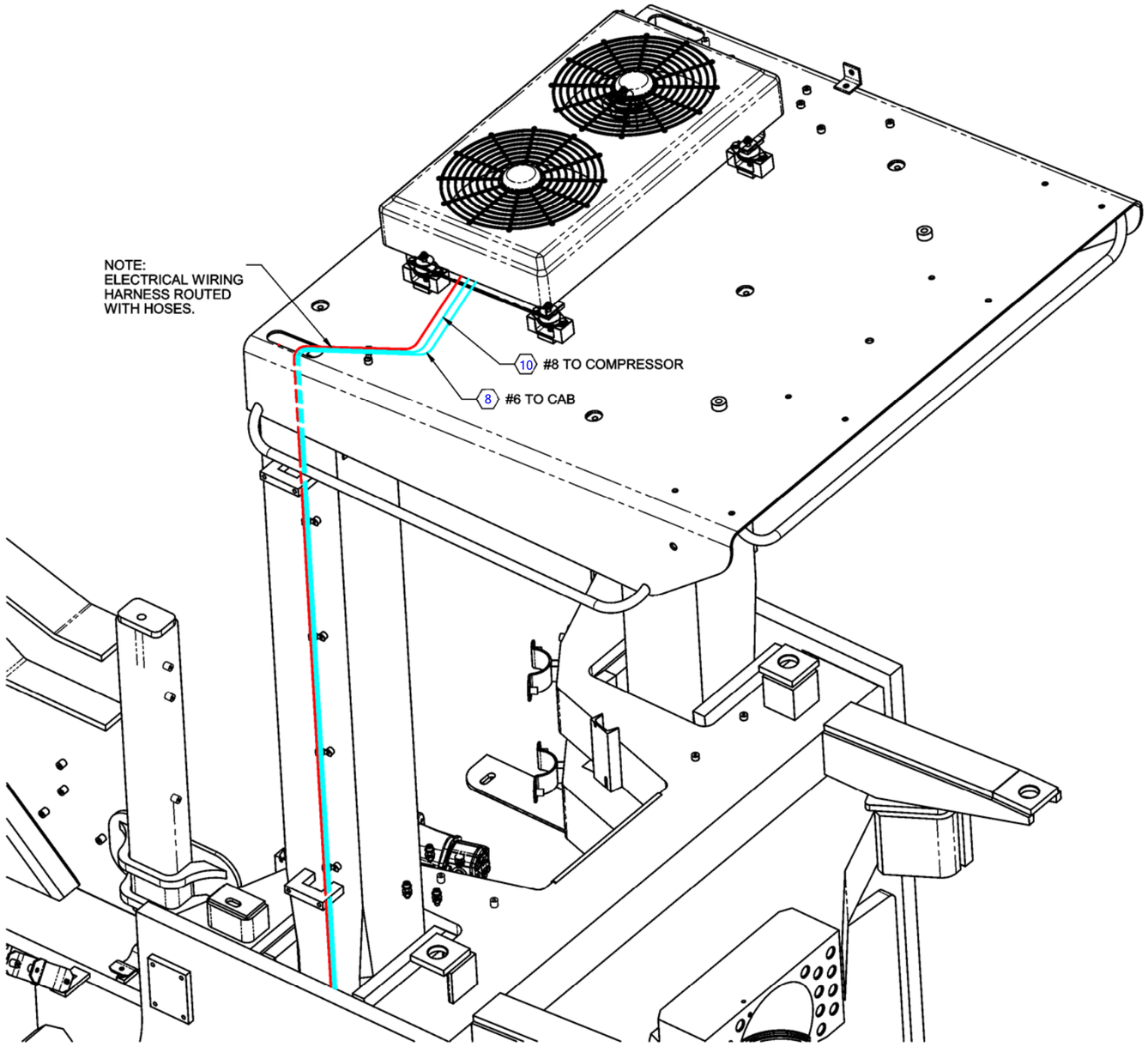
HEATER/AC SYSTEM LINCS II CAB

SIZE C | DO NOT SCALE | DWG NO. 4292912 | REV 00

SCALE NONE | EST WT - | SHEET 1 OF 3

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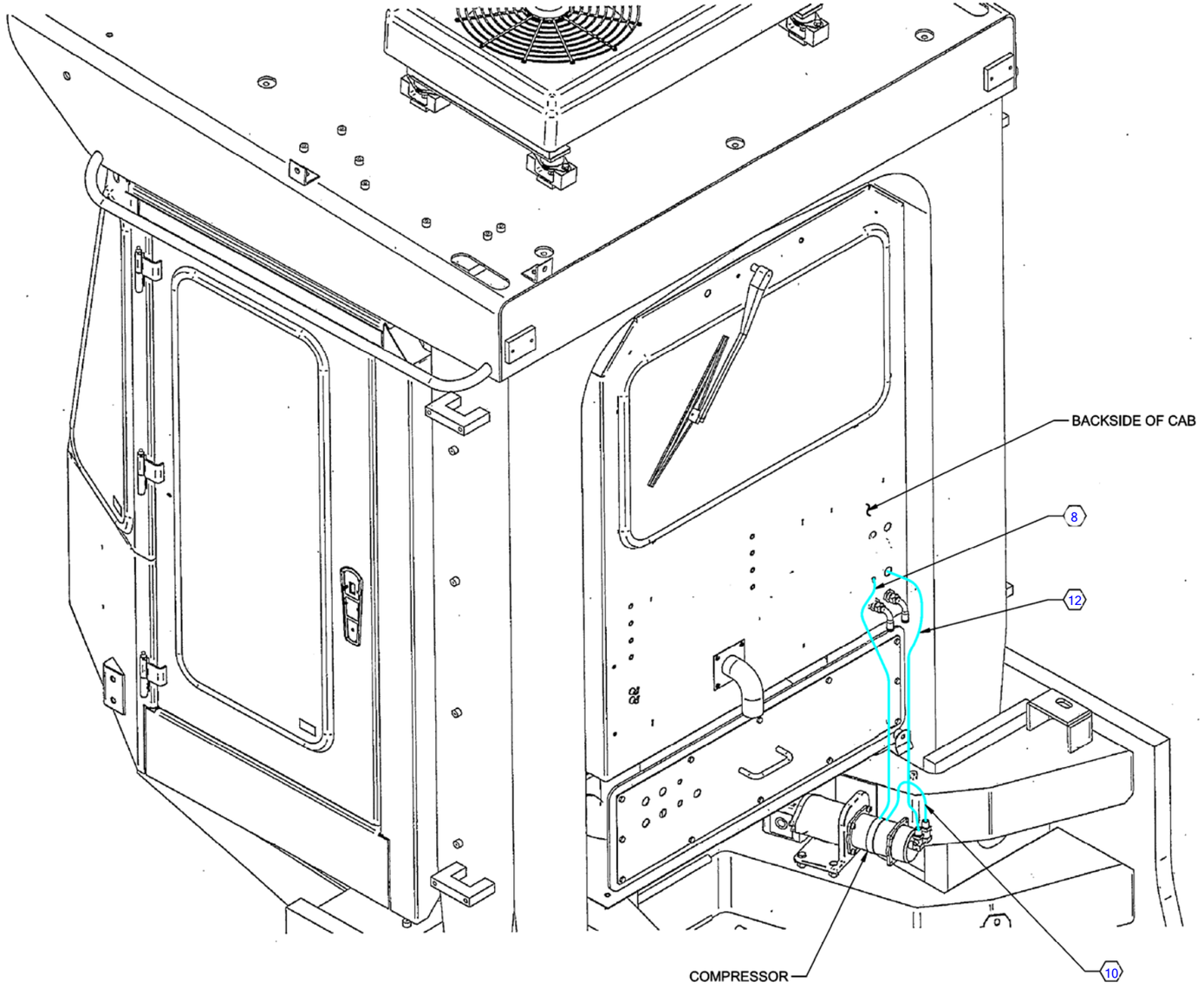


A/C EXTERNAL HOSE ROUTING

HEATER/AC SYSTEM LINCS II CAB					
DRAWN J.MARTIN	SIZE C	DO NOT SCALE	DWG NO. 4292912	REV 00	
ISSUED 9-11-18	SCALE NONE	EST WT -		SHEET 2 OF 3	

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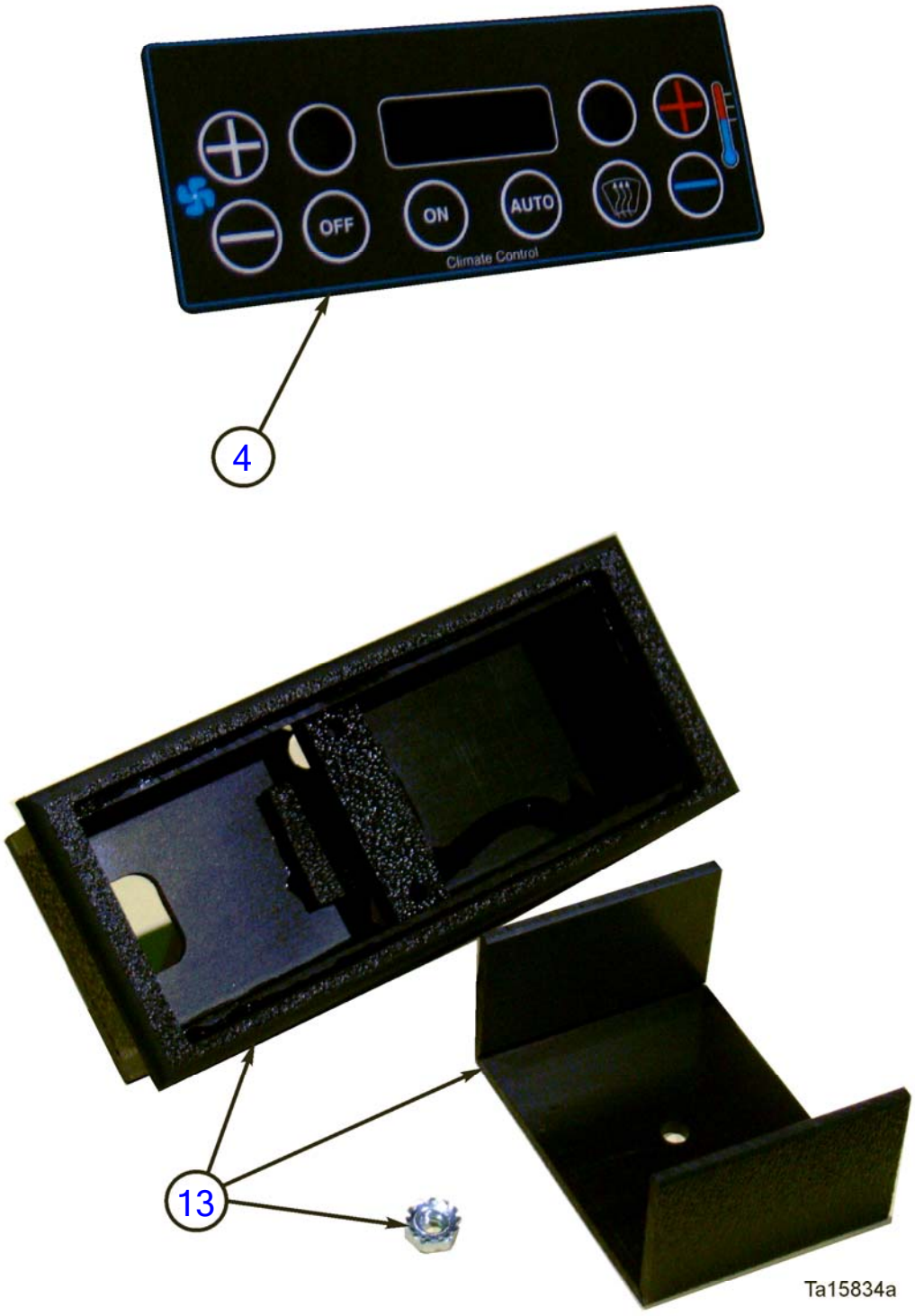


BACKSIDE CAB A/C EXTERNAL HOSE ROUTING

HEATER/AC SYSTEM LINCS II CAB					
DRAWN J.MARTIN	SIZE C	DO NOT SCALE	DWG NO. 4292912	REV 00	
ISSUED 9-11-18	SCALE NONE	EST WT -	SHEET 3 OF 3		

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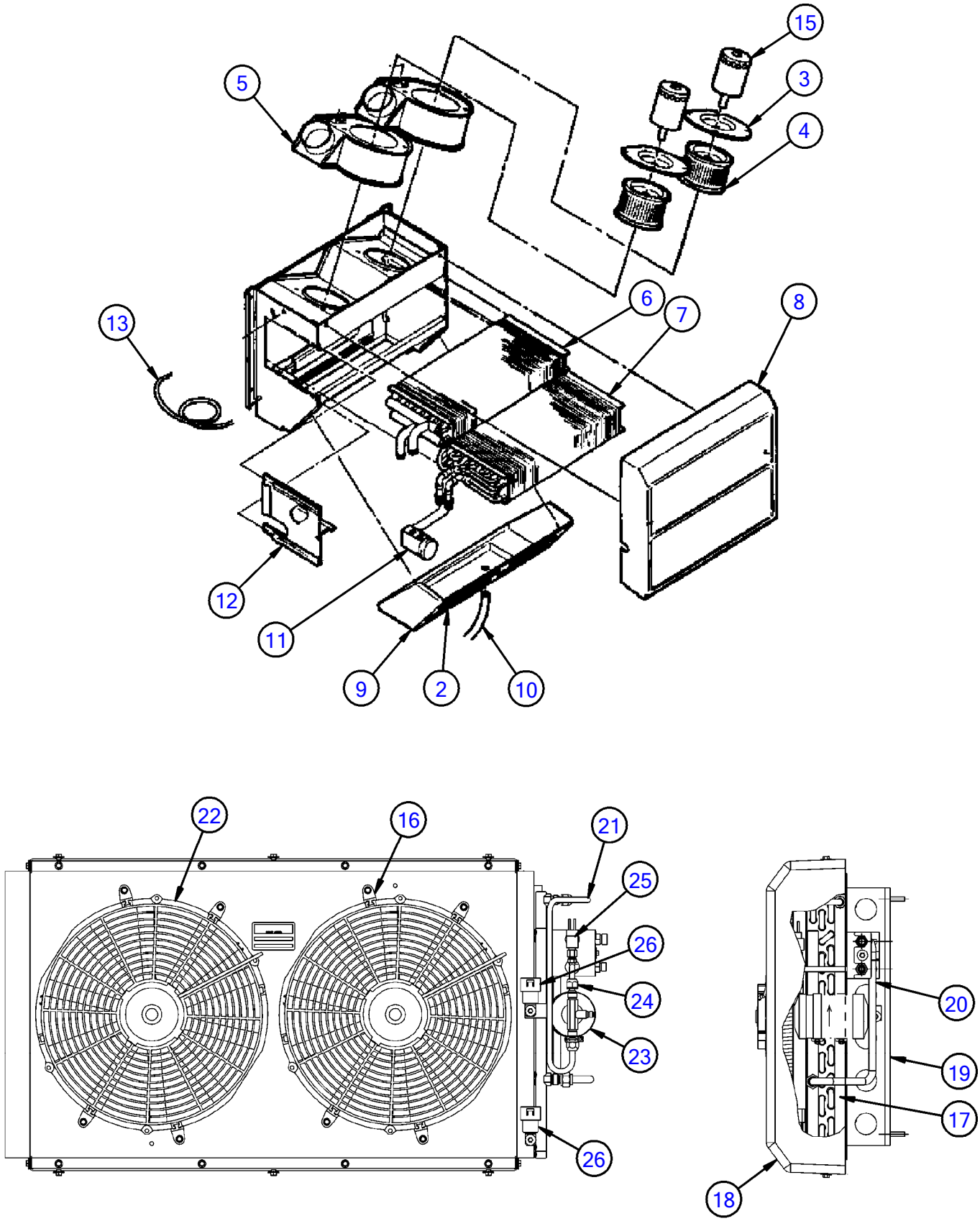
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4292912		A/C AND HEATER SYSTEM		
1	R4275682	1	· A/C AND HEATER ASSEMBLY (PAGE 2.18-2.18B)		
2	R4275683	1	· CONDENSER - A/C (PAGE 2.18-2.18B)		
3	R4274718	1	· COMPRESSOR/MOTOR ASSEMBLY - A/C (PAGE 2.18-2.18C)		
4	R4274341	1	· AUTOMATIC TEMPERATURE CONTROL PANEL, A/C AND HEATER (SEE NOTE)		
5	R4292914	1	· ECU MODULE, 12/24 VOLT - A/C AND HEATER		
6	R4268489	1	· SENSOR, TEMPERTURE - WITH DEUTSCH PLUG, A/C AND HEATER		
7	R4268484	1	· VALVE, WATER - 12/24V - A/C AND HEATER		
	R4279580	1	· · VALVE, WATER - 12/24V - A/C AND HEATER		
	R4278972	1	· · HOSE, HEATER - MOLDED		
8	R4275685	1	· HOSE, #6 - CONDENSER TO CAB		
9	R4275686	1	· HOSE, #6 - CAB TO EVAPORATOR		
10	R4275687	1	· HOSE, #8 - COMPRESSOR TO CONDENSER		
11	R4275688	1	· HOSE, #8 - CAB TO EVAPORATOR		
12	R4275689	1	· HOSE, #12 - CAB TO COMPRESSOR		
13	R4274650	1	· MOUNT BOX, CONTROL HEAD		
14	R4292917	1	· HARNESS WITH RELAYS		
15	R4292915	1	· INSTRUCTIONS, AUTO TEMPERATURE CONTROL		
			NOTE:		
			· WHEN THE AUTOMATIC TEMPERATURE CONTROL (ATC) PANEL FOR THE UNIT IS REPLACED,		
			· THE SYSTEM MUST BE PROGRAMMED. REFER TO VENDOR INFORMATION IN SERVICE MANUAL		
			· VL 111C - ATC INSTRUCTIONS, FOR PROGRAMMING INSTRUCTIONS.		
		REF	DRAWING, A/C AND HEATER SYSTEM (R429291200)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4275682	1	A/C AND HEATER ASSEMBLY		1/15/19
1	N.P.N.		· NOT USED		
2	R4266306	1	· FILTER, WASHABLE - A/C AND HEATER		
3	R4275697	2	· MOUNT, MOTOR - A/C AND HEATER		
4	R4275698	2	· BLOWER WHEEL, A/C AND HEATER		
5	R4275699	2	· BLOWER ASSEMBLY, A/C AND HEATER		
6	R4275700	1	· CORE, HEATER		
7	R4275701	1	· EVAPORATOR COIL, A/C AND HEATER		
8	R4275702	1	· COVER, A/C AND HEATER		
9	R4275703	1	· COVER, AIR INTAKE - A/C AND HEATER		
10	R4275704	1	· HOSE, DRAIN - A/C AND HEATER		
11	R4274420	1	· EXPANSION VALVE - A/C AND HEATER		
12	R4275705	1	· COVER ASSEMBLY, CORE - A/C AND HEATER		
13	R4268491	1	· EVAPORATOR FREEZE PROBE - A/C AND HEATER		
14	N.P.N.		· NOT USED		
15	R4286113	2	· MOTOR, 24V PERMANENT MAGNET - A/C AND HEATER		
	R4275683	1	CONDENSER - A/C		
	R4286073	REF	· MOUNT, VIBRATION INSULATOR - A/C CONDENSER	4	1/15/19
	R4286074	REF	· MOUNT BRACKET, SUPPORT - A/C CONDENSER	4	1/15/19
16	R4275690	8	· BRACKET, FAN - CONDENSER		
17	R4275691	1	· COIL, CONDENSER		
18	R4275692	1	· COVER, CONDENSER		
19	R4275693	2	· GASKET, MOUNT - CONDENSER		
20	R4275694	1	· INLET TUBE, #8 - CONDENSER		
21	R4275695	1	· TUBE ASSEMBLY, #6 - CONDENSER		
22	R4286121	2	· FAN WITH DRAIN HOLES, CONDENSER		
23	R4268485	1	· DRIER, CONDENSER		
24	R4275709	1	· TUBE ASSEMBLY, #6 - CONDENSER		
25	R4268486	1	· SWITCH, BINARY - CONDENSER		
26	R4268487	2	· RELAY, 24V - CONDENSER		
			DRAWING, A/C AND HEATER ASSEMBLY (R427568202)		
			DRAWING, A/C CONDENSER (R427568303)		

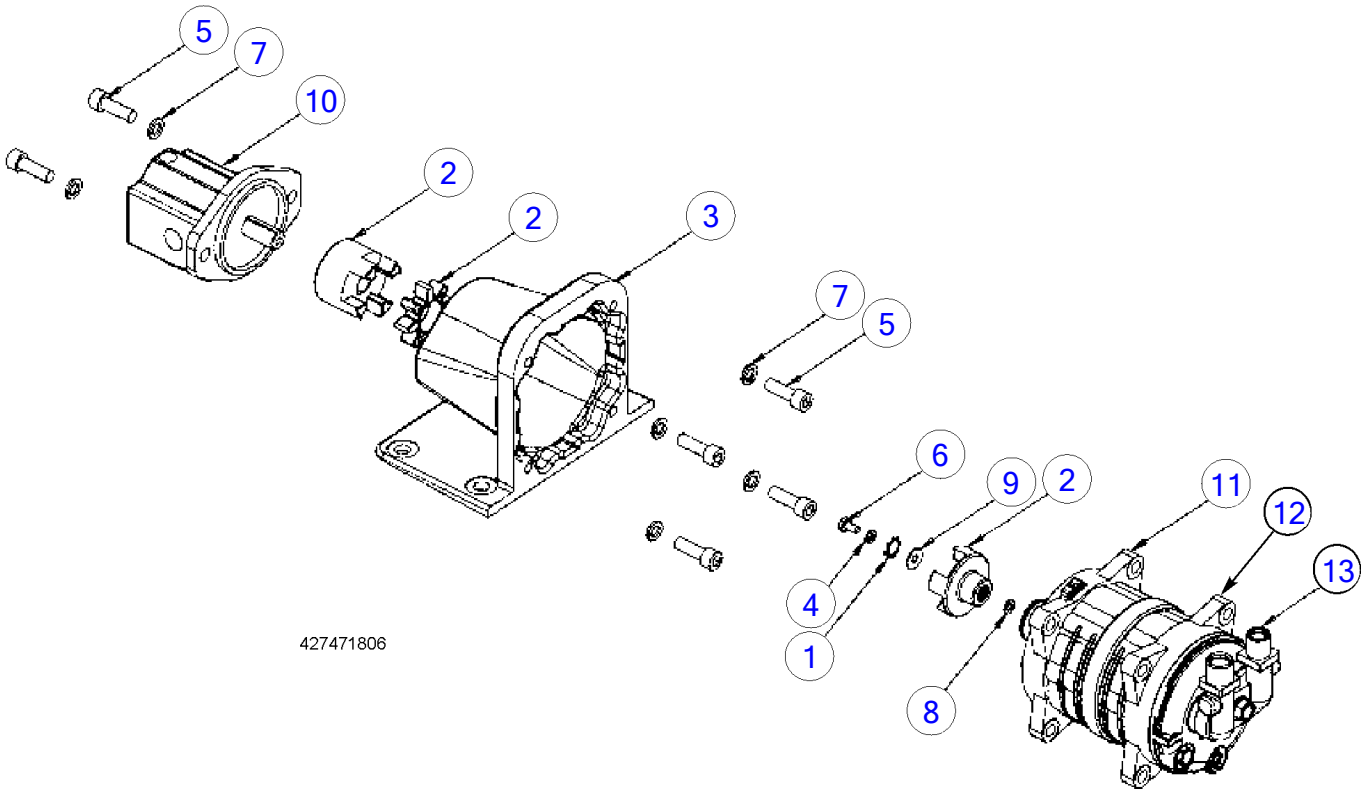
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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A/C COMPRESSOR/MOTOR ASSEMBLY



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A/C COMPRESSOR/MOTOR ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274718		A/C COMPRESSOR/MOTOR ASSEMBLY		3/5/19
1	R4291151	1	· WASHER, 3/4" - TOOTH		
2	R4274383	1	· COUPLING, A/C COMPRESSOR/MOTOR		
3	R4274719	1	· HOUSING, A/C COMPRESSOR/MOTOR		
4	N.P.N.	1	· LOCKWASHER, 6M		
5	R4291153	6	· SCREW, 10M X 1.5		
6	N.P.N.	1	· BOLT, 6M X 1		
7	N.P.N.	6	· LOCKWASHER, 10M		
8	N.P.N.	1	· FLATWASHER, 6M		
9	R4291157	1	· WASHER, FENDER - 6M		
10	R4281280	1	· MOTOR, HYDRAULIC - A/C		
11	R4297366	1	· COMPRESSOR WITH VERTICAL MANIFOLD		3/5/19
12	R4268493	1	· · COMPRESSOR, TM-15 NO CLUTCH - A/C		3/5/19
13	R4291158	1	· · MANIFOLD, VERTICAL		3/5/19
			A/C COMPRESSOR/MOTOR ASSEMBLY (R427471806)		3/5/19

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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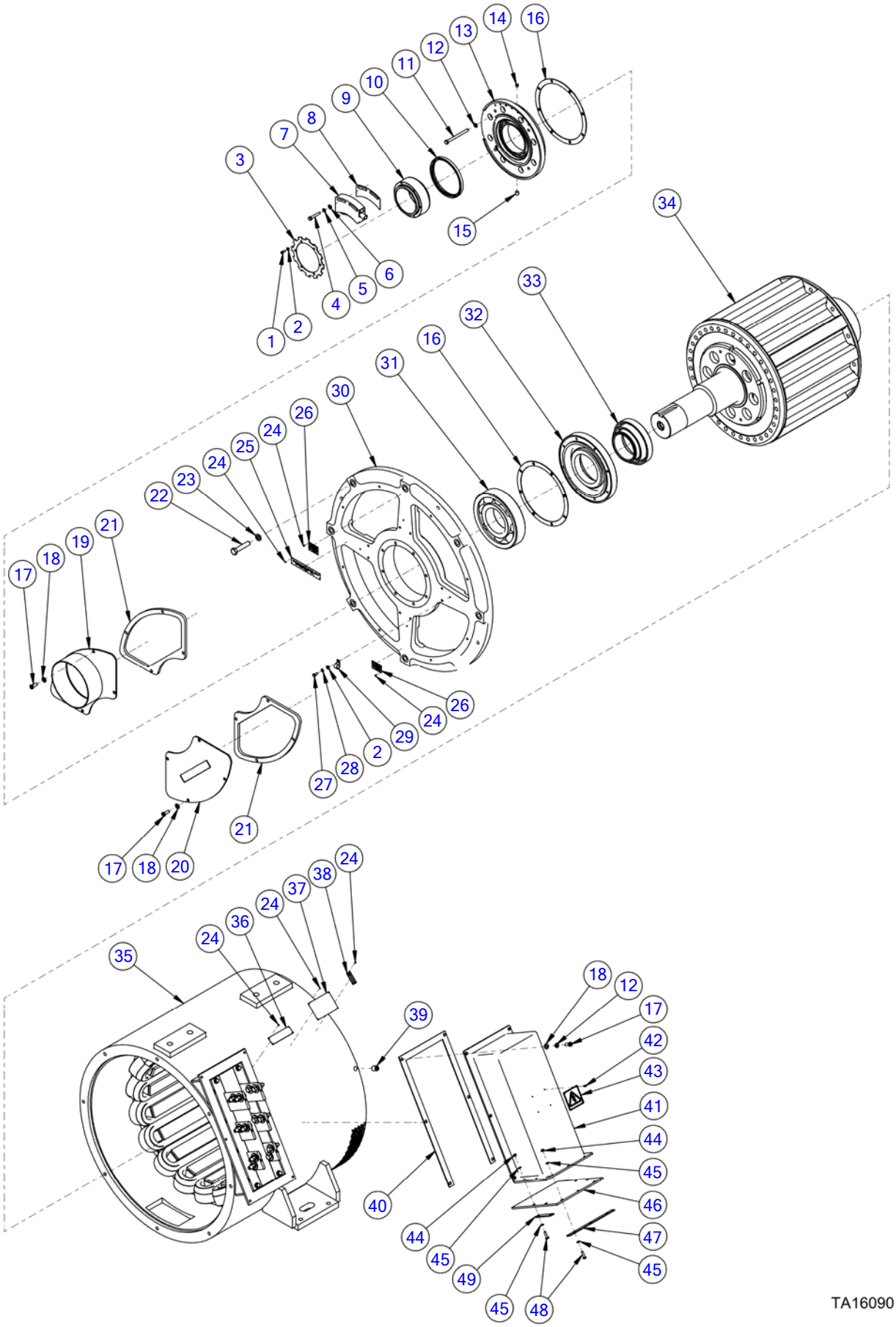
SECTION OR GROUP TITLE
SR G100 GENERATOR ASSEMBLY
SR G100 GENERATOR GROUP
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GENERATOR ASSEMBLY



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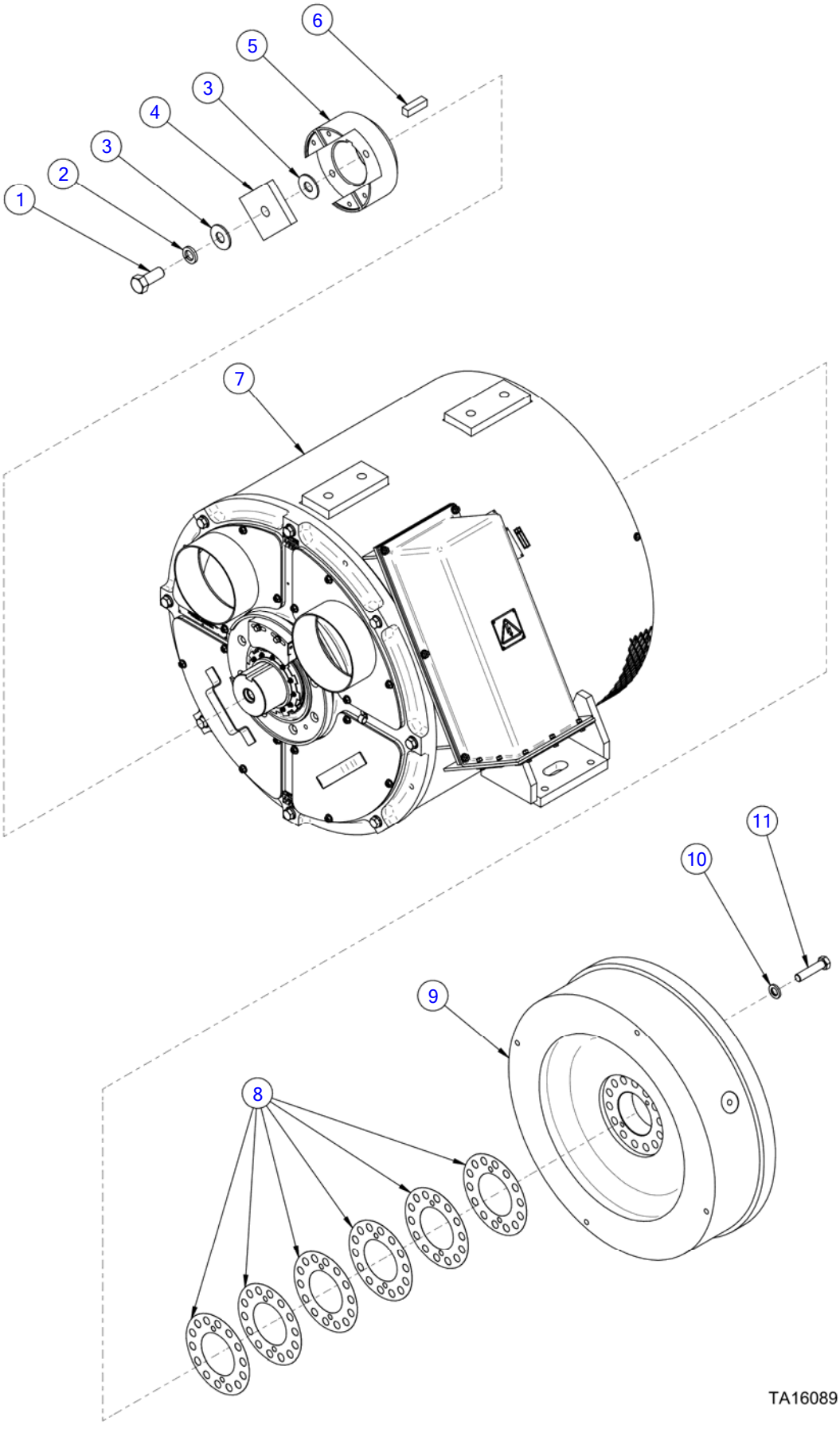
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4266800		GENERATOR ASSEMBLY - SR G100		6/9/20
1	R4001801	1	· BOLT, 1/4"-20 X 1/2"		
2	R0213584	7	· LOCKWASHER, 1/4"		
3	R4257758	1	· SHUTTER, RPT - G50		2/28/20
4	R4009629	2	· BOLT, 5/16"-18 X 2"		
5	R0264174	2	· LOCKWASHER, 5/16"		
6	R0753118	2	· FLATWASHER, 5/16"		
7	R4259036	1	· CARRIER ASSEMBLY, RPT - G50		2/28/20
8	R4259038	1	· SHIM PACK, RPT CARRIER - G50		2/28/20
9	R4264720	1	· RACE, OUTER LABYRINTH FOR RPT		
10	R4264746	1	· SEAL, OIL - 6.000 6.750 .50 V		
11	R4009648	8	· BOLT, 3/8"-16 X 4-1/2"		
12	R0753123	14	· LOCKWASHER, 3/8"		
13	R4264729	1	· RETAINER, BEARING - OUTER, FOR RPT		
14	R0716331	1	· PLUG, PIPE - 1/8", HEX CSK.		
15	R0272969	1	· PLUG, PIPE - 1/4", HEX CSK.		
16	R4264699	2	· GASKET, NDE		
17	R0810971	8	· BOLT, 3/8"-16 X 1"		
18	R0808221	8	· FLATWASHER, 3/8"		
19	R4240443	REF	· COVER, ACCESS - WITH INLET	2	
20	R4180891	2	· COVER, ACCESS - WITH HANDLE		
21	R4180893	2	· GASKET, ACCESS COVER		
22	R0021634	8	· BOLT, 5/8"-11 X 3"		
23	R0021541	8	· LOCKWASHER, 5/8"		
24	R4032268	16	· SCREW, DRIVE - #2 X 3/16"		6/20/19
25	R4286588	1	· TAG, GREASE - KLUBER		
26	R4100864	2	· TAG, CAUTION - GENERATOR W/O COVERS		
27	R0812278	1	· BOLT, 1/4"-20 X 5/8"		
28	R4010923	1	· FLATWASHER, 1/4"		
29	R4257612	1	· CLAMP, CABLE - INSULATED, 5/8"		
30	R4185941	1	· ENDBELL, GENERATOR - 7B NDE		
31	R4297831	1	· BEARING, BALL - WITH INSULATED BALLS (SEE NOTE)		6/9/20
			NOTE: INSULATED BALL BEARING R4243426 HAS AN INSULATED INNER RACE.		6/9/20
			IT IS REPLACED BY INSULATED BALL BEARING R4297831 WHICH DOES NOT HAVE INSULATED RACES BUT HAS		6/9/20
			INSULATED (CERAMIC) BALLS. EXISTING STOCK OF INSULATED BALL BEARING R4243426 SHOULD BE USED UP.		6/9/20
32	R4264728	1	· RETAINER, BEARING - INNER, FOR RPT		
33	R4264727	1	· RACE, INNER LABYRINTH - FOR RPT		
34	R4264733	1	· ROTOR ASSEMBLY, G100		
35	R4264743	1	· STATOR ASSEMBLY, SR G100		
36	R4278455	1	· PLATE, NAME		6/9/17
37	R4264745	1	· PLATE, DATA - G100		6/9/17
38	R0864439	1	· TAG, ROTATION		
39	R4016006	1	· SETSCREW, 3/4"-10 X 1" - HEX CSK.		
40	R4264737	1	· GASKET, COVER		
41	R4264741	1	· COVER ASSEMBLY, BUS BARS		8/6/19
42	R4251580	4	· · BOLT, #6-32 X 3/8" - TOPTITE		
43	R4268617	1	· · LABEL, SAFETY - HIGH VOLTAGE, INTERNATIONAL SYMBOL - S.S.		
44	R4012935	7	· · NUT, 1/4"-20		
45	R0213584	14	· · LOCKWASHER, 1/4"		
46	R4275426	1	· · SEAL, LEAD EXIT		
47	R4250167	1	· · CLAMP BAR, 9-3/4"		
48	R0814157	7	· · BOLT, 1/4"-20 X 1"		
49	R4250168	2	· · CLAMP BAR, 3-3/4"		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
NS	R0459283		· THREAD COMPOUND, LOCTITE #2760		
	R4220928		· THREAD COMPOUND, LOCTITE #222		
	R4254189		· GREASE, KLUBER ISOFLX TPAS L152 - 2.2 LBS		
			NOTE:		
			· PROPER INSTALLATION OF THESE INSULATED PARTS IS CRITICALLY IMPORTANT		
			· TO AVOID DAMAGE TO THE GENERATOR AND ENGINE. INSTALLATION		
			· PROCEDURES ARE LOCATED IN THE MACHINE SERVICE MANUAL.		
			· HYDRAULICS, HYDRAULIC PUMP GEARBOX OVERHAUL PROCEDURE.		
		REF	DRAWING, GENERATOR ASSEMBLY - SR G100 (R426680003)		6/20/19

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SR G100 GENERATOR GROUP



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4266811		SR G100 GENERATOR GROUP		6/20/19
1	R0986238	1	· BOLT, 1"-14 X 2-1/2"		
2	N.P.N.		· NOT USED		6/20/19
	R4245660	1	· HUB, DRIVE - WITH KEYWAY, INSULATED		
3	R0021553	1	· · FLATWASHER, 1" I.D. X 2-1/2" O.D.		
4	R4243427	1	· · WASHER, RECTANGULAR - INSULATED		
5	R4243428	1	· · HUB, DRIVE - INSULATED		
6	R4243425	1	· · KEY, HUB - INSULATED		
7	R4266800	1	· SR G100 GENERATOR ASSEMBLY (PAGE 3.1-3.1A)		
8	R4164561	AR	· SHIM, .007"	6	
9	R4281853	1	· ADAPTER, ROTOR		
10	R4222109	14	· FLATWASHER, 3/4" I.D. X 1-3/8" O.D. X 3/16" - HARDENED		
11	R0021649	14	· BOLT, 3/4"-10 X 3-1/4"		
			NOTE:		
			· PROPER INSTALLATION OF THESE INSULATED PARTS IS CRITICALLY		
			· IMPORTANT TO AVOID DAMAGE. PROPER INSTALLATION PROCEDURES		
			· CAN BE FOUND IN THE SERVICE MANUAL, MECHANICAL, HPD GEARBOX.		
		REF	DRAWING, GENERATOR GROUP - G100 SR (R426681102)		6/20/19

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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SECTION OR GROUP TITLE
INSTRUMENT PANEL GROUP
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			INSTRUMENT PANEL GROUP (PL-631)		
			・NOTE:		
			・・FOR INSTRUMENT PANEL PARTS SEE PAGE 5.82-5.82A		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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L-1350-2302 PARTS MANUAL
Electric Control Components

SECTION OR GROUP TITLE
POSITION INDICATOR ASSEMBLY
SPEED CONTROL PEDAL ASSEMBLY
STEERING POSITION INDICATOR GROUP
LIFTARM LEVEL INDICATOR GROUP
BELLCRANK POSITION INDICATOR GROUP
HIGH VOLTAGE CABINET ASSEMBLY
CONVERTER ASSEMBLY
BRAKING GRID
BATTERY BOX ASSEMBLY
ENGINE INTERFACE BOX ASSEMBLY
SR COOLER PLUMBING GROUP
POLE LIGHT ASSEMBLY - L.H.
POLE LIGHT ASSEMBLY - R.H.
REAR COWL LIGHT GROUP
ELECTRICAL SCHEMATIC
CAB WIRING DIAGRAM LINCS II
ISOLATION SWITCH BOX ASSEMBLY
ENGINE AIR RESTRICTION GAUGE BOX ASSEMBLY
LOW VOLTAGE CONTROL CABINET ASSEMBLY
LINCS II LOW VOLTAGE PANEL ASSEMBLY
LINCS II RELAY PANEL ASSEMBLY
FRONT FRAME HARNESS GROUP
REAR FRAME HARNESS GROUP
LOW VOLTAGE ELECTRICAL COMPONENTS
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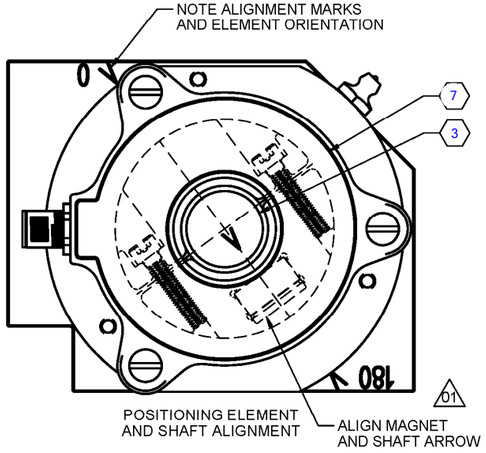
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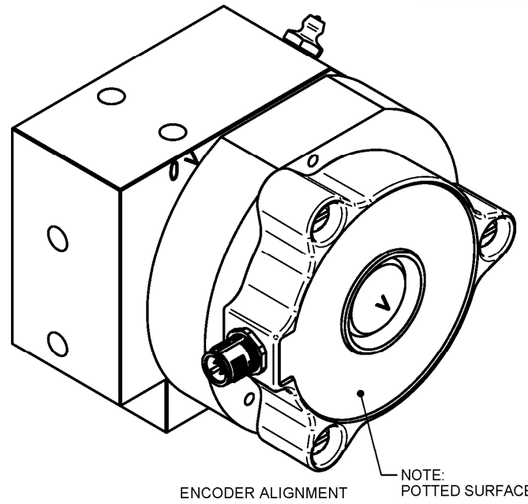
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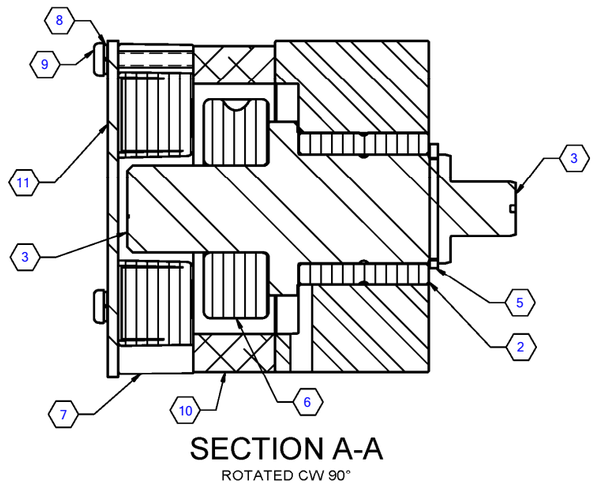
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POSITION INDICATOR ASSEMBLY

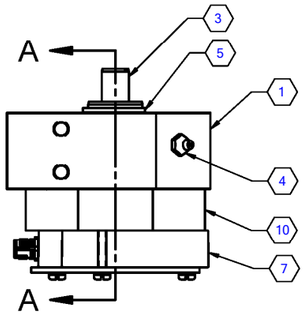
REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1387162	2019-05-29	AKN	BBD	JBD
D4	01	ROTATE SHAFT WITH MAGNET TO 180° ALIGNMENT MARK; ADDED NOTE	1390693	2019-07-16	AKN	BBD	JBD

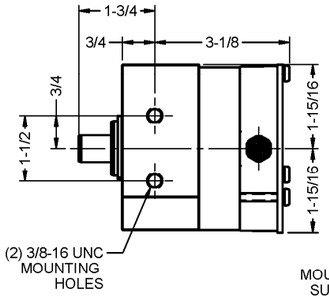


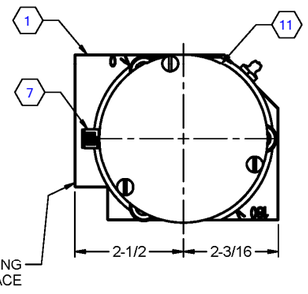


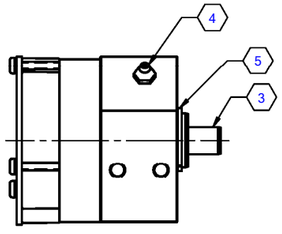


SECTION A-A
ROTATED CW 90°









NOTE:
1.SHRINK FIT ITEM 2 INTO ITEM 1

ITEM	PART NO	QTY	DESCRIPTION
11	4297944	1	SHIELD
10	4297942	1	PROTECTING RING
9	0060043	6	MACHINE SCREW, PAN HD.
8	4010907	6	WASHER LOCK SPR .190 .334 .047
7	4297951	1	POSITION SENSOR CONTACTLESS 360
6	4297952	1	MAGNET COLLAR
5	4263901	1	RING RETAIN SNAP 1.250 EXT HVY DTY
4	0020315	1	GREASE FITTING 1/8 NPT
3	4297943	1	SHAFT ENCODER SM
2	4289643	1	BRONZE BUSHING
1	4297941	1	PL SENSOR MOUNT

ALL DIMENSIONS ARE REFERENCE

UNLESS OTHERWISE SPECIFIED TOLERANCES			
DECIMAL		FRACTIONAL	
DIM	TOL	DIM	TOL
X	+/- .060	0"-24"	+/- 1/16
XX	+/- .030	24"-96"	+/- 1/8
XXX	+/- .015	OVER 96"	+/- 3/16
ANGLES	+/- 0°30'	ANGLES	+/- 1°

• ALL DIMENSIONS ARE IN INCHES
• MACHINED CORNERS 1/64 X 45°
• UNSPEC FNSH ON MACH SURF TO BE 125 Ra OR BETTER
• WELD PROPS SHALL MEET THE MIN REQ OF BASE MATL
THIRD ANGLE PROJECTION

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DWN BY anoman
CHK BY BBD
APVD BY JBD
MATL

KOMATSU MINING CORP.

TITLE
ASSY POSITION SENSOR G3 SM S

SIZE	SIM TO	DWG NO	REV
C	NA	4297939	01
DO NOT SCALE	EST WT (LB) 13.0	SHEET	1 OF 1

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POSITION INDICATOR ASSEMBLY

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POSITION INDICATOR ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4297939		POSITION INDICATOR ASSEMBLY		3/5/20
1	R4297941	1	· MOUNT PLATE, POSITION SENSOR		
2	R4289643	1	· BUSHING, BRONZE		
3	R4297943	1	· SHAFT, POSITION INDICATOR		
4	R0020315	1	· FITTING, GREASE - 1/8" MP		
5	R4263901	1	· RING, RETAINING - EXTERNAL, 1-1/4"		
6	R4297952	1	· COLLAR, MAGNETIC		
7	R4297951	1	· POSITION SENSOR ASSEMBLY - 360 deg.		
8	R4010907	6	· LOCKWASHER, #10		
9	R0060043	6	· SCREW		
10	R4297942	1	· RING, PROTECTING		
11	R4297944	1	· SHIELD		
		REF	DRAWING, POSITION INDICATOR ASSEMBLY (R429793901)		3/5/20

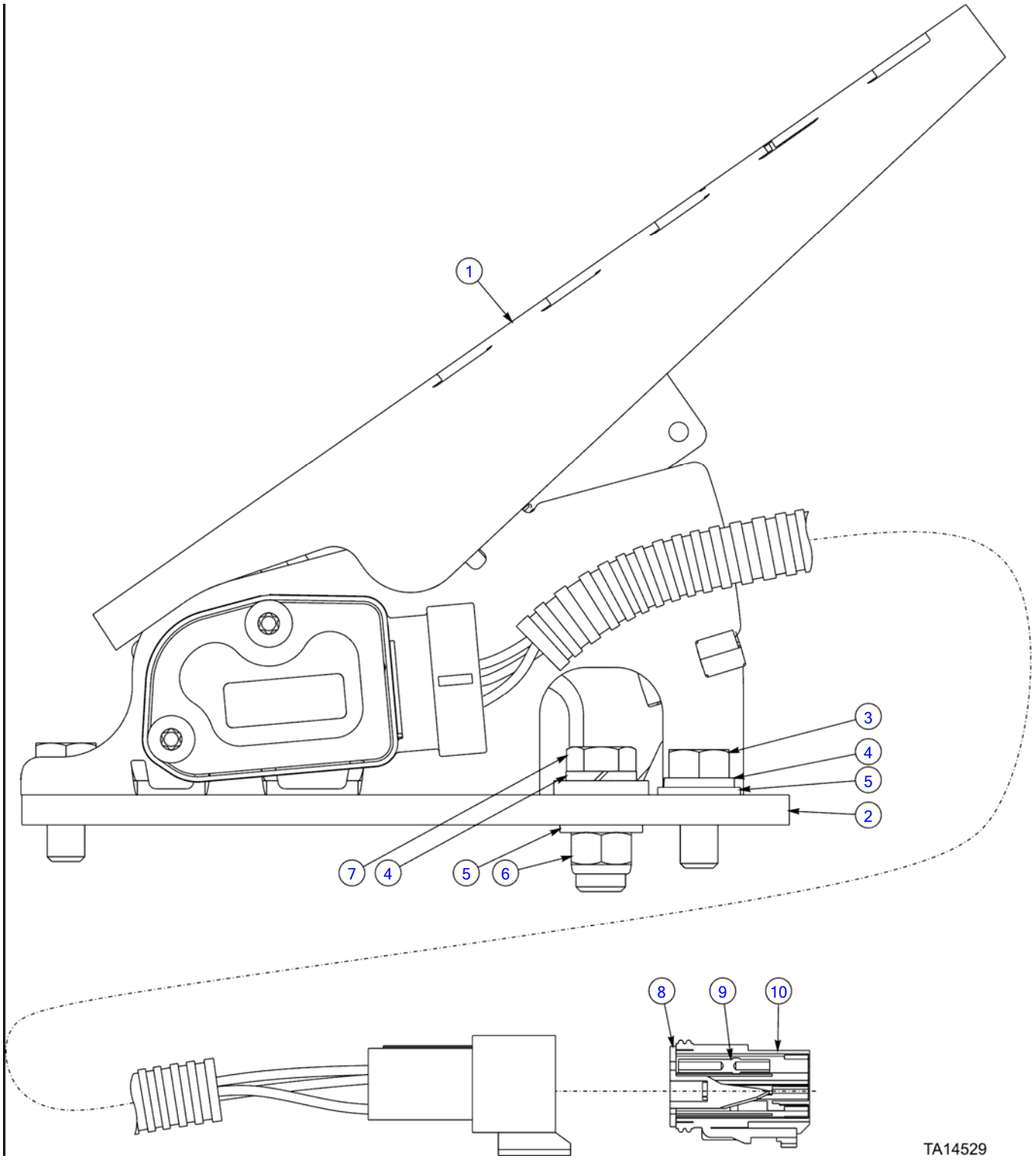
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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SPEED CONTROL PEDAL ASSEMBLY



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SPEED CONTROL PEDAL ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4259998		SPEED CONTROL PEDAL ASSEMBLY		
1	R4259998	1	· PEDAL ASSEMBLY, SPEED CONTROL - 35 deg. FIXED		
2	N.P.N.		· NOT USED		
3	N.P.N.		· NOT USED		
4	N.P.N.		· NOT USED		
5	N.P.N.		· NOT USED		
6	N.P.N.		· NOT USED		
7	N.P.N.		· NOT USED		
8	R4240201	1	· WEDGE, W3S		
9	R4240200	3	· SOCKET, CONTACT - 16		
10	R4240202	1	· PLUG		
			NOTE:		
			· THERE ARE NO SERVICE PARTS FOR SPEED CONTROL PEDAL ASSEMBLY R4259998.		

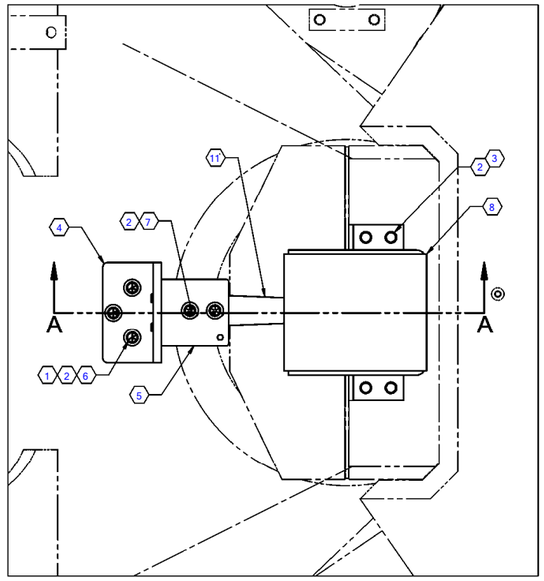
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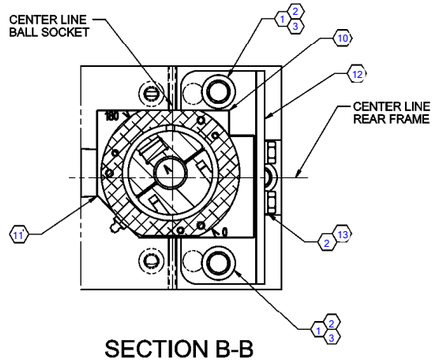
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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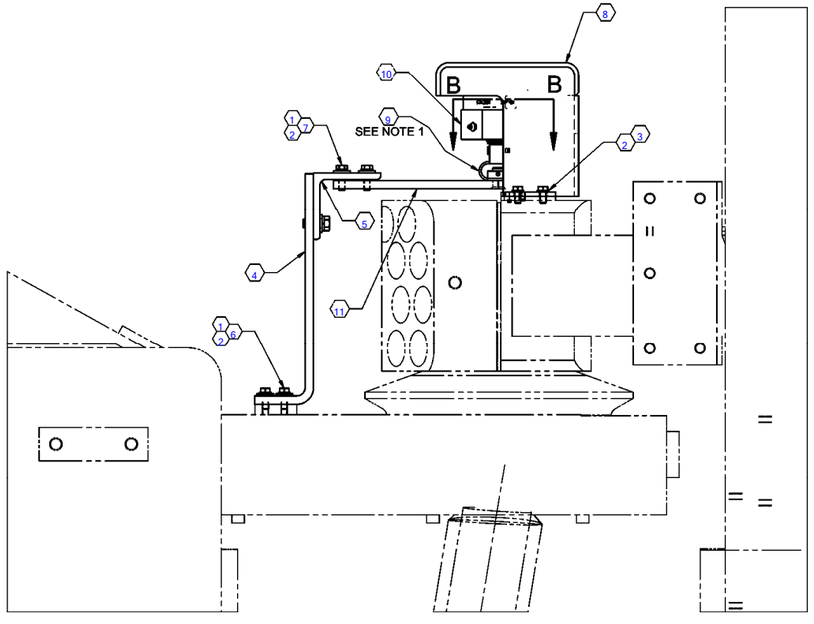
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STEERING POSITION INDICATOR GROUP





SECTION B-B



NOTE:
1. ENSURE ITEM 11 IS PROPERLY ALIGNED AS SHOWN BEFORE TIGHTENING SET SCREWS ON ITEM 10

ITEM	PART NO	QTY	DESCRIPTION
17	0810991	2	WASHER FLAT .531 1.062 .121
16	0801181	2	WASHER LOCK SPR .500 .873 .125
15	4009752	2	BOLT HX .500 1.250 NC G8 FT
14	0088711	2	SET SCREW 1/4-20 UNC-2A
13	4131194	2	BOLT HX .375 .875 NC G8 FT
12	4289725	1	PL POSITION SENSOR MOUNT
11	4290291	1	STR POSITION SENSOR ARM
10	4297939	1	ASSY POSITION SENSOR G3 SM S
9	4244974	1	COUPLING, FLEX K-COUPLING 5/8
8	4289598	1	STR GUARD STEER SENSOR
7	0808476	2	BOLT HX .375 1.250 NC G8
6	0810971	3	BOLT HX .375 1.000 NC G8 FT
5	4290176	1	MOUNT STEER SENSOR FF
4	4290174	1	PLT STEER MNT BRKT FORMED FF
3	0810970	7	BOLT HX .375 .750 NC G8 FT
2	0753123	14	WASHER LOCK SPR .375 .68 .09
1	4286552	8	WASHER FLAT .438 1.030 .130

UNLESS OTHERWISE SPECIFIED
TOLERANCES

DECIMAL		FRACTIONAL	
DIM	TOL	DIM	TOL
.X	+/- .060	0°-24°	+/- 1/16
.XX	+/- .030	24°-96°	+/- 1/8
.XXX	+/- .015	OVER 96°	+/- 3/16
ANGLES	+/- 0°30'	ANGLES	+/- 1°

• ALL DIMENSIONS ARE IN INCHES
• MACHINED CORNERS 1/64 X 45°
• UNSPEC FINISH ON MACH SURF TO BE 125 Ra OR BETTER
• WELD PROPS SHALL MEET THE MIN REQ OF BASE MATL
THIRD ANGLE PROJECTION

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DWN BY mchisler
CHK BY JSD
APVD BY JSD
MATL

KOMATSU MINING CORP.

TITLE
GP POS SENSOR STEERING L1350

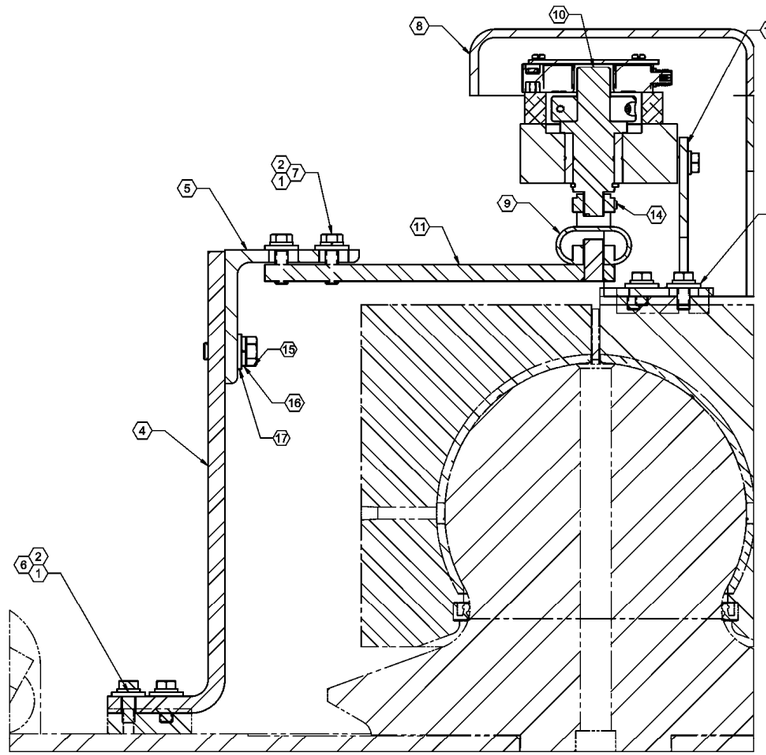
SIZE	SIM TO	DWG NO	REV
D	NA	4290171	05
DO NOT SCALE	EST WT (LB) 48.3	SHEET	1 OF 2

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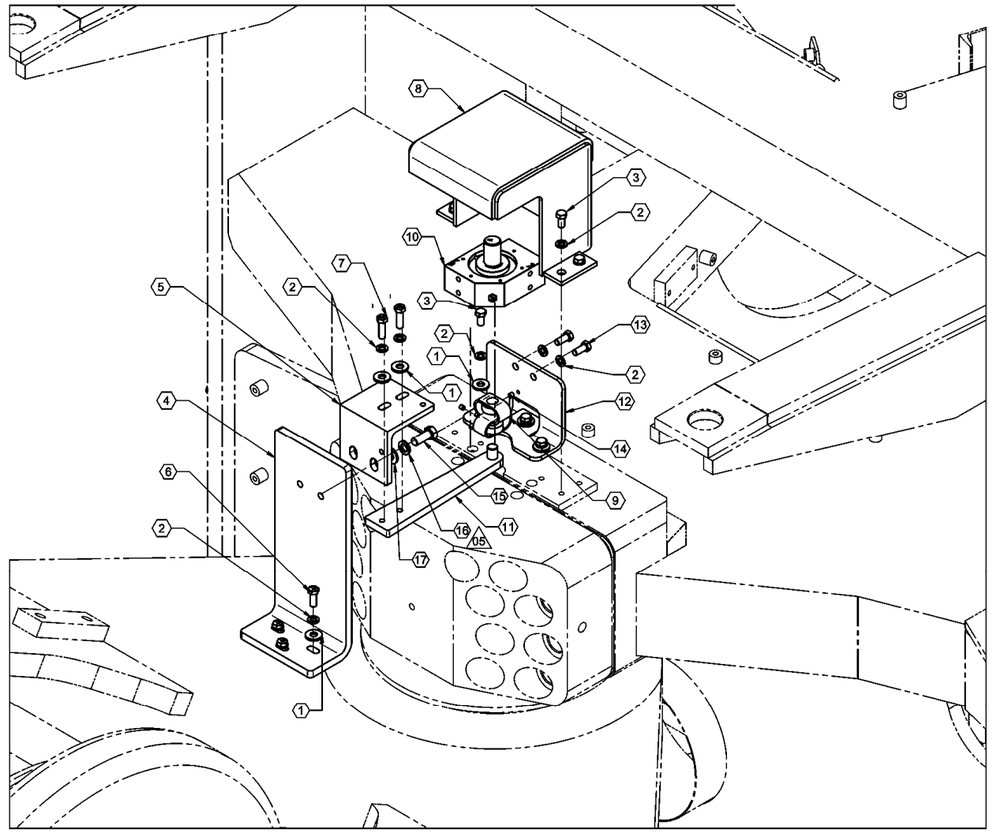
STEERING POSITION INDICATOR GROUP

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STEERING POSITION INDICATOR GROUP



SECTION A-A



SIZE	SIM TO	DWG NO	REV
D	NA	4290171	05
DO NOT SCALE	EST WT (LB) 48.3	SHEET	2 OF 2

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STEERING POSITION INDICATOR GROUP

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STEERING POSITION INDICATOR GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4290171		STEERING POSITION INDICATOR GROUP		
1	R4286552	8	· FLATWASHER, 1/2" X 1" X 1/8"		
2	R0753123	14	· LOCKWASHER, 3/8"		
3	R0810970	7	· BOLT, 3/8"-16 X 3/4"		
4	R4290174	1	· MOUNT BRACKET, VERTICAL		
5	R4290176	1	· MOUNT BRACKET, 90 deg.		
6	R0810971	3	· BOLT, 3/8"-16 X 1"		
7	R0808476	2	· BOLT, 3/8"-16 X 1-1/4"		
8	R4289598	1	· GUARD STRUCTURE, POSITION INDICATOR ASSEMBLY		
9	R4244974	1	· COUPLING, FLEXABLE		
10	R4297939	1	· POSITION INDICATOR ASSEMBLY (PAGE 5.5-5.5A)		
11	R4280291	1	· ARM STRUCTURE, POSITION INDICATOR ASSEMBLY		
12	R4289725	1	· MOUNT BRACKET, POSITION INDICATOR ASSEMBLY		
13	R4131194	2	· BOLT, 3/8"-16 X 7/8"		
14	R0088711	2	· SETSCREW, 1/4"-20		
15	R4009752	2	· BOLT, 1/2"-13 X 1-1/4"		
16	R0801181	2	· LOCKWASHER, 1/2"		
17	R0810991	2	· FLATWASHER, 1/2" X 1" X 1/8"		
		REF	DRAWING, STEERING POSITION INDICATOR GROUP (R429017105)		

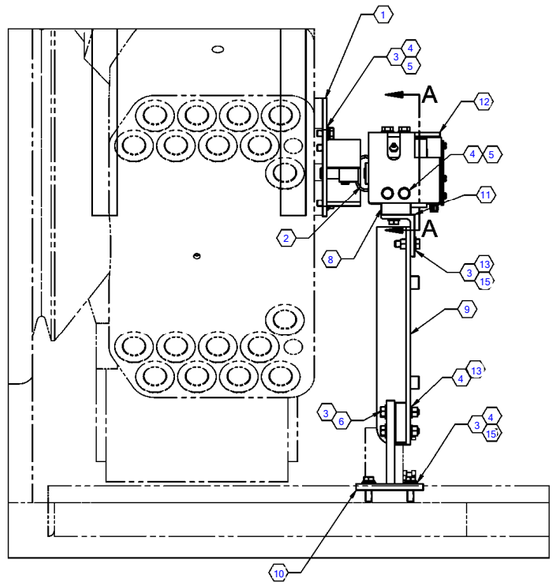
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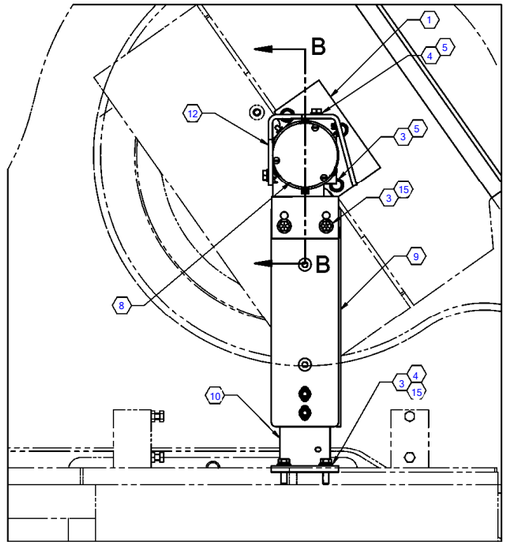
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

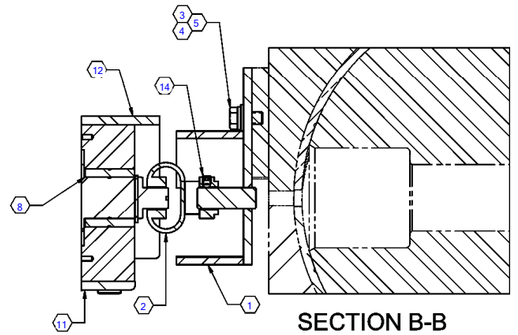
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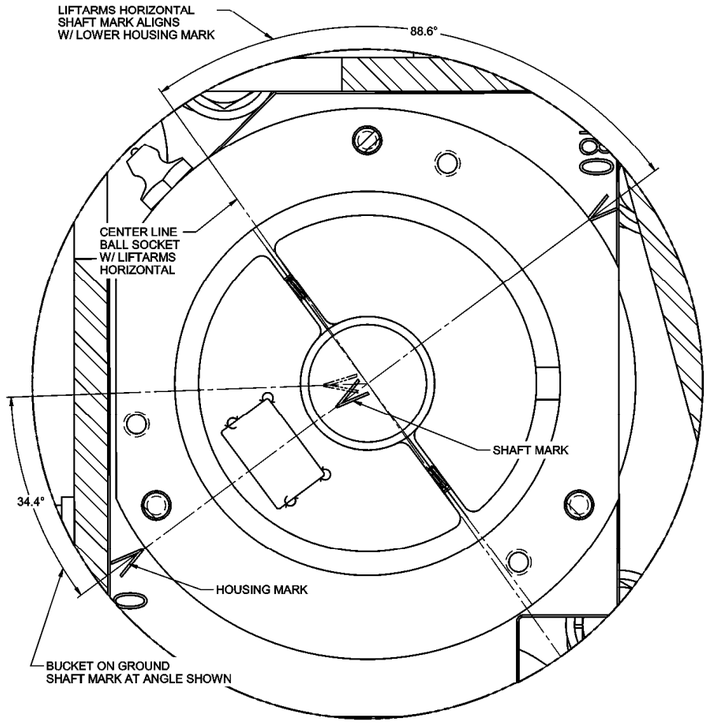
LIFTARM LEVEL INDICATOR GROUP



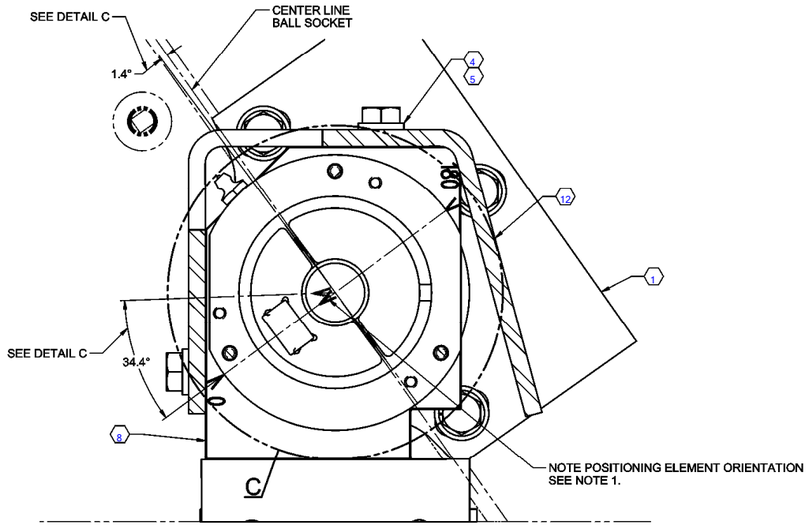




SECTION B-B



DETAIL C



SECTION A-A

NOTES:
1. VISUALLY CENTER ALIGNMENT OF ITEM 8 BEFORE TIGHTENING SET SCREWS ON ITEM 2 .

ITEM	PART NO	QTY	DESCRIPTION
15	0808476	6	BOLT HX .375 1.250 NC G8
14	0088711	2	SET SCREW 1/4-20 UNC-2A
13	0812921	4	NUT HX .375 NC G8
12	4289727	1	PL SENSOR COVER
11	4289728	1	ANGLE SENSOR MOUNT
10	4290180	1	STR POS SENOR BASE MNT
9	4290183	1	STR MNT POS SENSOR
8	4297939	1	ASSY POSITION SENSOR G3 SM S
7	4131194	2	BOLT HX .375 .875 NC G8 FT
6	4009641	2	BOLT HX .375 2.000 NC G8
5	0810970	7	BOLT HX .375 .750 NC G8 FT
4	0753123	15	WASHER LOCK SPR .375 .68 .09
3	0808221	11	WASHER FLAT .375 .81 .08
2	4244974	1	COUPLING, FLEX K-COUPLING 5/8
1	4247873	1	STR COUPLING SHIELD

UNLESS OTHERWISE SPECIFIED			
TOLERANCES			
DECIMAL		FRACTIONAL	
DIM	TOL	DIM	TOL
X	+/- .060	0"-24"	+/- 1/16
XX	+/- .030	24"-96"	+/- 1/8
XXX	+/- .015	OVER 96"	+/- 3/16
ANGLES	+/- 0°30'	ANGLES	+/- 1°

• ALL DIMENSIONS ARE IN INCHES
• MACHINED CORNERS 1/64 X 45°
• UNSPEC FNSH ON MACH SURF TO BE 125 Ra OR BETTER
• WELD PROPS SHALL MEET THE MIN REQ OF BASE MATL
THIRD ANGLE PROJECTION

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DWN BY ecchiter
CHK BY JSD
APVD BY JSD
MATL

KOMATSU MINING CORP.

TITLE
GP POS SENSOR LIFTARM L1350

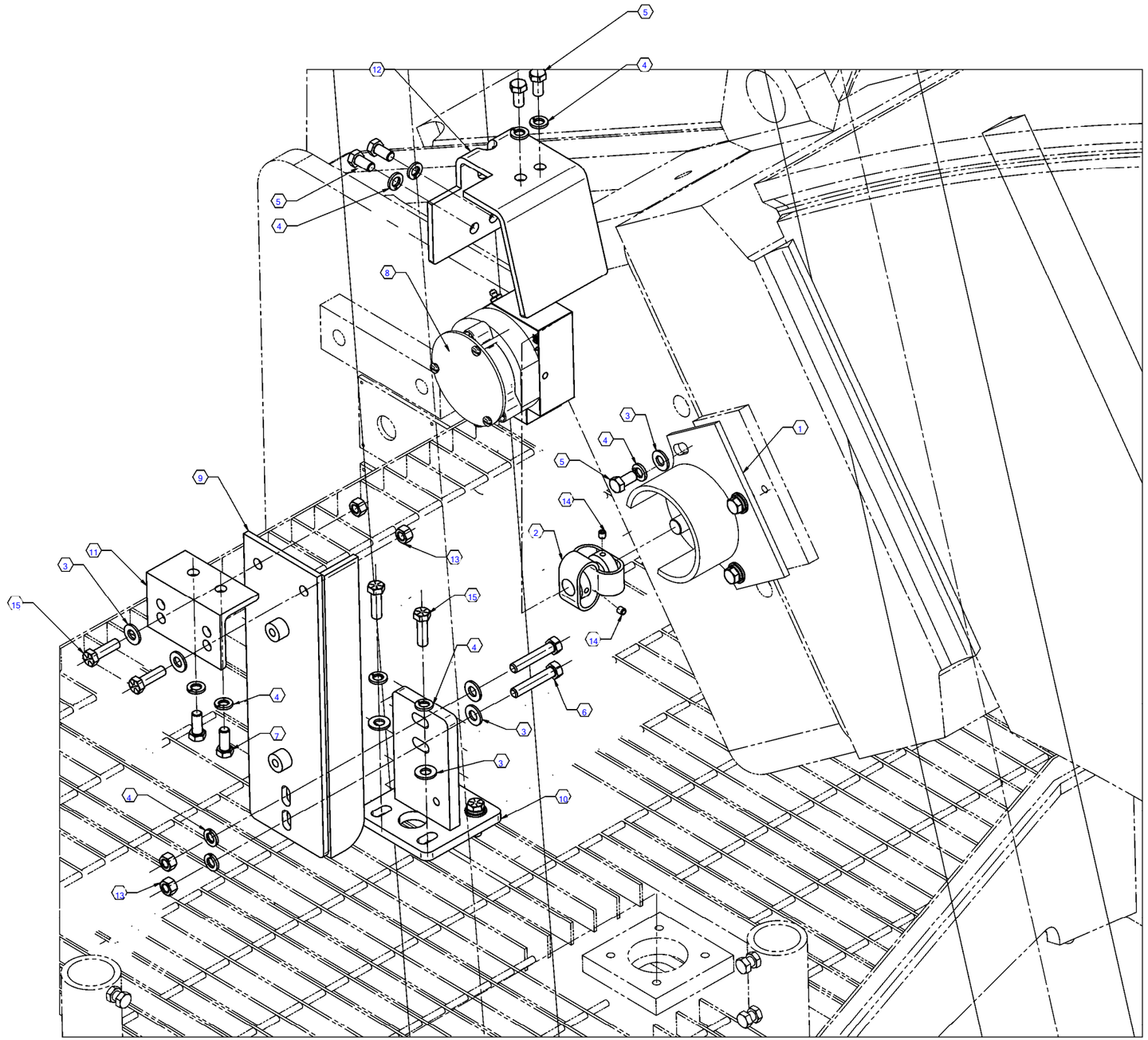
SIZE	SIM TO	DWG NO	REV
D	NA	4290172	04
DO NOT SCALE	EST WT (LB) 30.8	SHEET	1 OF 2

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LIFTARM LEVEL INDICATOR GROUP

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LIFTARM LEVEL INDICATOR GROUP



SIZE	SIM TO	DWG NO	REV
D	NA	4290172	04
DO NOT SCALE	EST WT (LB) 30.8	SHEET	2 OF 2

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LIFTARM LEVEL INDICATOR GROUP

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LIFTARM LEVEL INDICATOR GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4290172		LIFTARM LEVEL INDICATOR GROUP		
1	R4247873	1	· SHIELD STRUCTURE, COUPLING		
2	R4244974	1	· COUPLING, FLEXABLE		
3	R0808221	11	· FLATWASHER, 3/8"		
4	R0753123	15	· LOCKWASHER, 3/8"		
5	R0810970	7	· BOLT, 3/8"-16 X 3/4"		
6	R4009641	2	· BOLT, 3/8"-16 X 2"		
7	R4131194	2	· BOLT, 3/8"-16 X 7/8"		
8	R4297939	1	· POSITION INDICATOR ASSEMBLY (PAGE 5.5-5.5A)		
9	R4290183	1	· MOUNT STRUCTURE, POSITION INDICATOR ASSEMBLY		
10	R4290180	1	· MOUNT STRUCTURE, POSITION INDICATOR BASE		
11	R4289728	1	· MOUNT STRUCTURE, POSITION INDICATOR ASSEMBLY		
12	R4289727	1	· COVER PLATE, POSITION INDICATOR		
13	R0812921	4	· NUT, 3/8"-16		
14	R0088711	2	· SETSCREW, 1/4"-20		
15	R0808476	6	· BOLT, 3/8"-16 X 1-1/4"		
			DRAWING, LIFTARM LEVEL INDICATOR GROUP (429017204)		

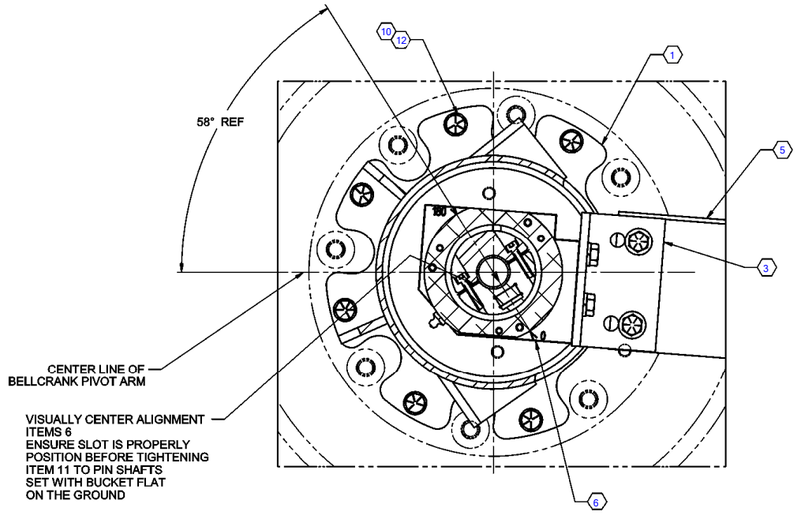
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

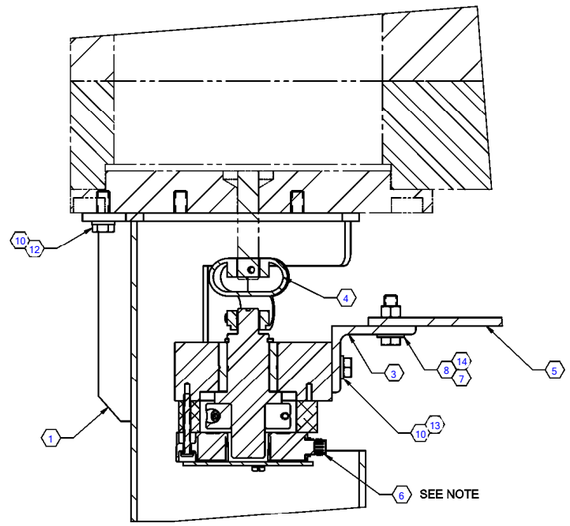
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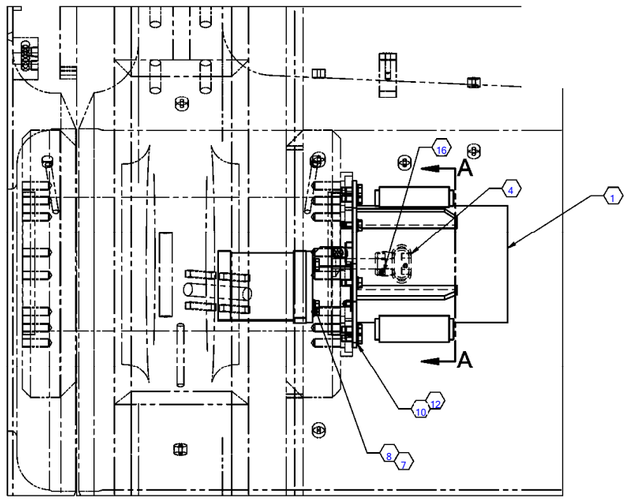
BELLCRANK LEVEL INDICATOR GROUP

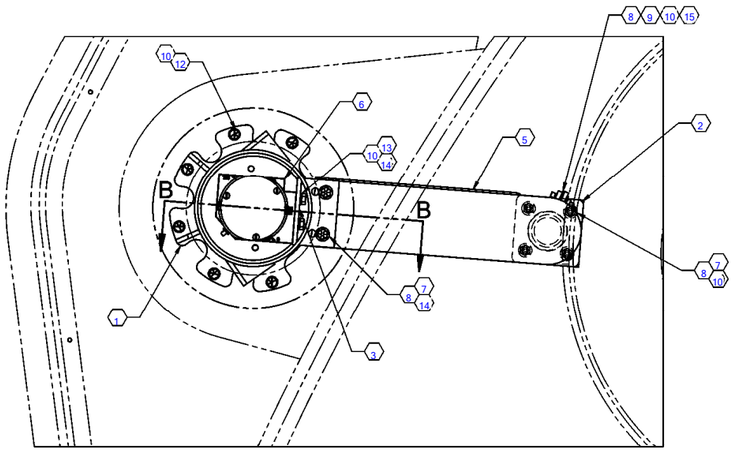


SECTION A-A



SECTION B-B





ITEM	PART NO	QTY	DESCRIPTION
16	0088711	2	SET SCREW 1/4-20 UNC-2A
15	4012948	1	NUT HEX JAM STL ZP 3/8-16UNC-2B
14	0812921	2	NUT HX .375 NC G8
13	4131194	2	BOLT HX .375 .875 NC G8 FT
12	0810971	6	BOLT HX .375 1.000 NC G8 FT
11	4261346	3	SSCR HX .313 .313 NC CUP SS
10	0753123	13	WASHER LOCK SPR .375 .68 .09
8	0808221	8	WASHER FLAT .375 .81 .08
7	0808476	7	BOLT HX .375 1.250 NC G8
6	4297939	1	ASSY POSITION SENSOR G3 SM S
5	4290189	1	STR MNT POS SENSOR
4	4244974	1	COUPLING, FLEX K-COUPLING 5/8
3	4289728	1	ANGLE SENSOR MOUNT
2	4290190	1	ASSY MNT LA POS SENSOR
1	4290198	1	STR GUARD POS SNSR BELLCRANK

UNLESS OTHERWISE SPECIFIED
TOLERANCES

DECIMAL		FRACTIONAL	
DIM	TOL	DIM	TOL
X	+/- .060	0"-24"	+/- 1/16
XX	+/- .030	24"-96"	+/- 1/8
XXX	+/- .015	OVER 96"	+/- 3/16
ANGLES	+/- 0°30'	ANGLES	+/- 1°

• ALL DIMENSIONS ARE IN INCHES
• MACHINED CORNERS 1/64 X 45°
• UNSPEC FNSH ON MACH SURF TO BE 125 Ra OR BETTER
• WELD PROPS SHALL MEET THE MIN REQ OF BASE MATL
THIRD ANGLE PROJECTION

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DWN BY ssclister
CHK BY JSD
APVD BY JSD
MATL

KOMATSU MINING CORP.

TITLE
GP POS SENSOR BELLCRANK L1350

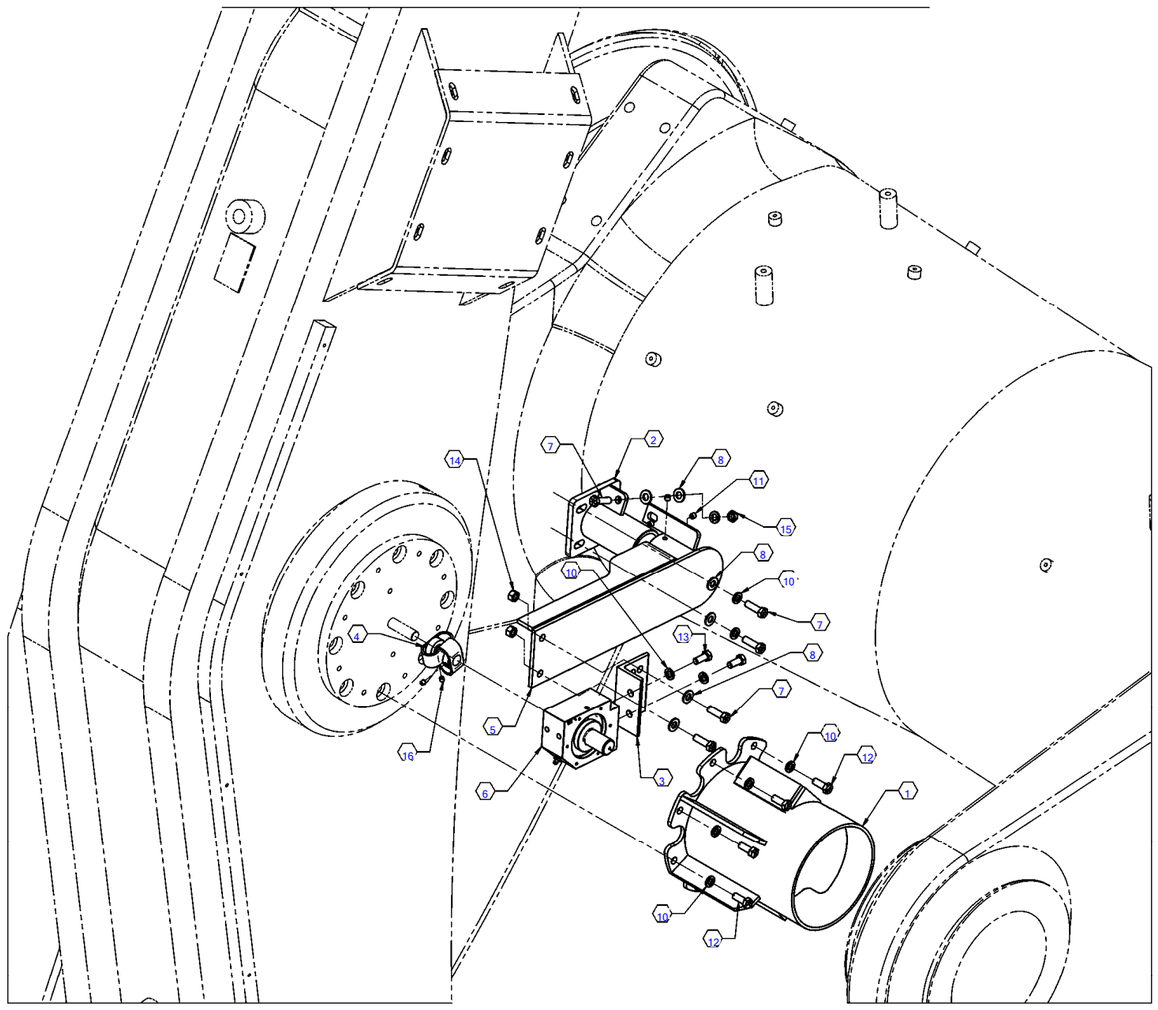
SIZE	SIM TO	DWG NO	REV
D	NA	4290179	03
DO NOT SCALE	EST WT (LB) 38.2	SHEET	1 OF 2

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BELLCRANK LEVEL INDICATOR GROUP

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BELLCRANK LEVEL INDICATOR GROUP



SIZE	SIM TO	DWG NO	REV
D	NA	4290179	03
DO NOT SCALE	EST WT (LB) 38.2	SHEET	2 OF 2

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BELLCRANK LEVEL INDICATOR GROUP

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4290179		BELLCRANK LEVEL INDICATOR GROUP		
1	R4290198	1	· GUARD STRUCTURE, BELLCRANK POSITION INDICATOR		
2	R4290190	1	· MOUNT STRUCTURE, LIFTARM		
3	R4289728	1	· MOUNT STRUCTURE, POSITION INDICATOR ASSEMBLY		
4	R4244974	1	· COUPLING, FLEXABLE		
5	R4290189	1	· MOUNT STRUCTURE, POSITION INDICATOR ASSEMBLY		
6	R4297939	1	· POSITION INDICATOR ASSEMBLY (PAGE 5.5-5.5A)		
7	R0808476	7	· BOLT, 3/8"-16 X 1-1/4"		
8	R0808221	8	· FLATWASHER, 3/8"		
9	N.P.N.		· NOT USED		
10	R0753123	13	· LOCKWASHER, 3/8"		
11	R4261346	3	· SCREW, 5/16"-18 X 5/16" S.S.		
12	R0810971	6	· BOLT, 3/8"-16 X 1"		
13	R4131194	2	· BOLT, 3/8"-16 X 7/8"		
14	R0812921	2	· NUT, 3/8"-16		
15	R4012948	1	· JAMNUT, 3/8"-16		
16	R0088711	2	· SETSCREW, 1/4"-20		
		REF	DRAWING, BELLCRANK LEVEL INDICATOR GROUP (R429017903)		

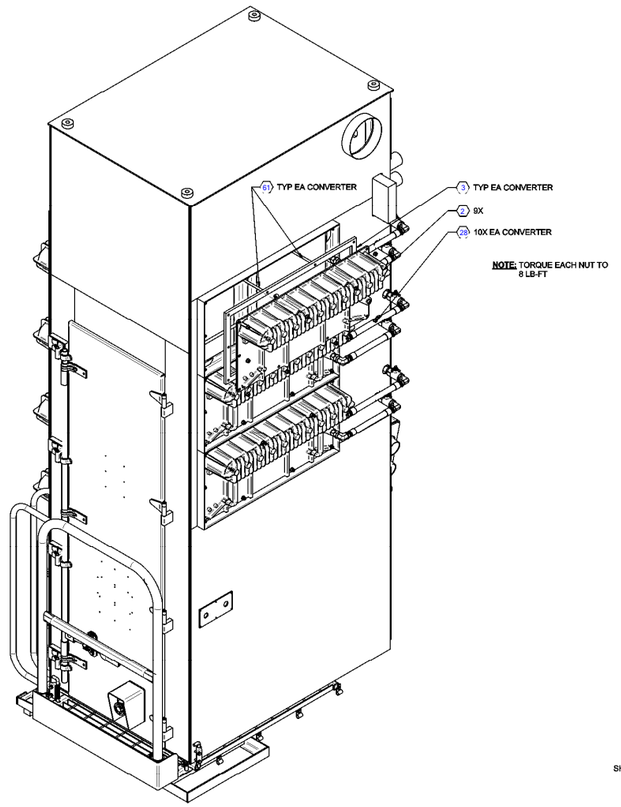
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

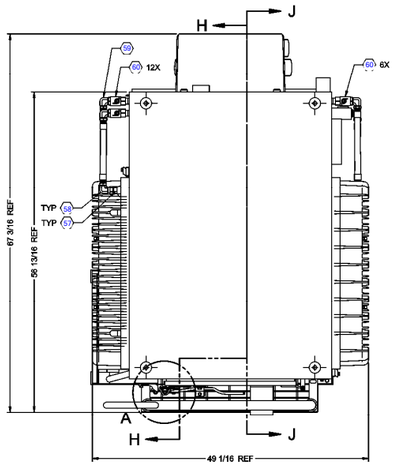
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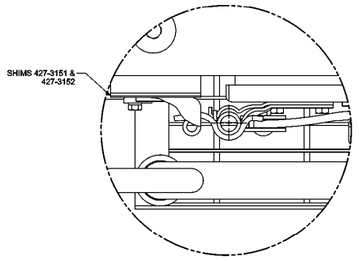
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HIGH VOLTAGE CABINET ASSEMBLY



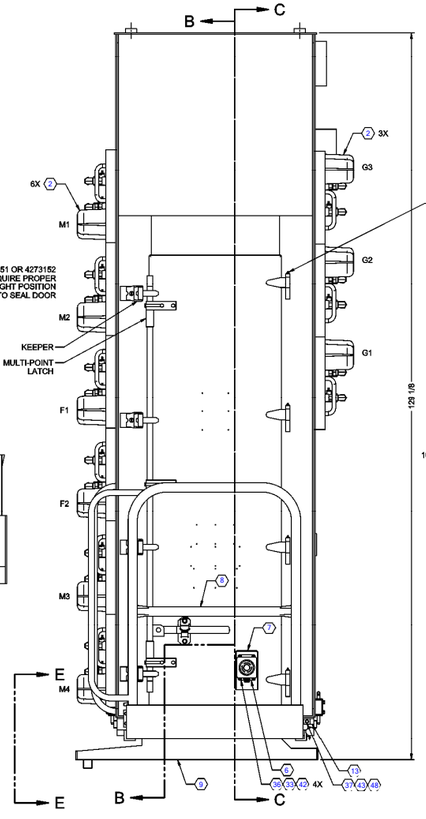
CONVERTER EXPLODED VIEW





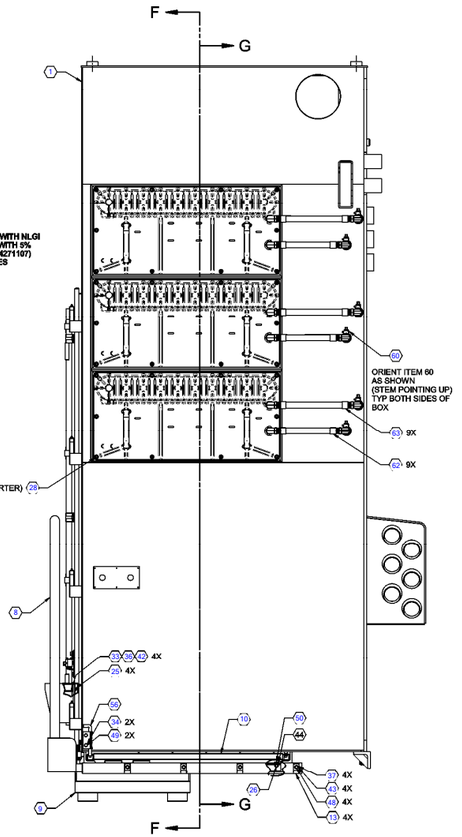
DETAIL A

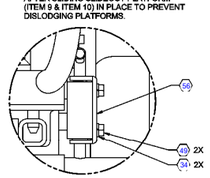
VIEW E-E
1:4



LUBRICATE WITH NLGI #0 GREASE WITH 5% MIN. MOLY (4271107) TYP 4 PLACES

ADD 427-3151 OR 4273152 SHIMS TO ACQUIRE PROPER KEEPER HEIGHT POSITION TO SEAL DOOR





DETAIL D

NOTE:

(SEE DETAIL D & SECTION E-E) ATTACH ITEM 56 AFTER SLIDING SLIDEOUT PLATFORM (ITEM 9 & ITEM 10) IN PLACE TO PREVENT DISLODGING PLATFORMS.

REFERENCE ITEMS:

1. 426-7787 JIG SR CONV WIRING
2. 427-3151 SHIM .063 2.00 2.25
3. 427-3152 SHIM .13 2.00 2.25

ITEM	PART NO.	QTY	DESCRIPTION
68	4009640	6	BOLT HX .375 1.500 NC G8
67	4286312	1	CABLE ASSY RPT/RTD FW2 L1350 G3
66	4286311	1	CABLE ASSY RPT/RTD FW1 L1350 G3
65	4286310	1	CABLE ASSY RPT/RTD GEN 1350 G3
64	4286309	1	CABLE ASSY RPT/RTD M4 L1350 G3
63	4286308	1	CABLE ASSY RPT/RTD M3 1350 G3
62	4286307	1	CABLE ASSY RPT-RTD M2 1350 G3
61	4286306	1	CABLE ASSY RPT-RTD M1 1350 G3
60	4109739	0.25	LOCTITE HYDRAULIC SEALANT
59	0233042	39	WASHER FLAT .375 1.00 .10
58	0986143	5	CLAMP CABLE INSL 1.00 .406
57	0275370	1	MSCR PH #8-32 UNC X .500
56	4157833	1	WASHER LOCK #8 SS SPRING
55	4010922	1	WASHER FLAT .188 .44 .07
54	4019417	1	WIRE TERM RT 16-14 #6 INS
53	4286251	1	LEAD DETAIL L1250 HV BOX
52	4279683	26	CTR POST INSULATOR 3/8 NC X 1-1/2
51	4286250	2	BUS BAR .50 4.00 63.88
50	4286249	1	BUS BAR DC POS .50 X 4.00
49	4286248	1	BUS BAR DC NEG .50 X 4.00
48	4148481	125	RUBBER NEOPRENE 1/16" X 5"
47	4267818	0.36	SPONGE EXPANDED SILICONE 1 X .36
46	4098344	200	CABLE TIE 21.00 INCH
45	4018728	100	CABLE TIE 14.58 INCH
44	4286245	1	HARNESS SR 9 CONVERTER
43	4262075	9	HOSE 1015 12 13.3 OJ OJ CSS
42	4262074	9	HOSE 1015 12 11.0 OJ OJ CSS
41	4265811	18	ROD THD 7.00 LG 3/8-16 EA END
40	4278368	18	VALVE BALL 3/4 NPT
39	4002441	18	FTG HYD 90 12 MJ 12 MP
38	4002481	18	FTG HYD 90 12 MJ 12 FJ SWVL
37	4013080	18	FTG HYD 0 8 MO 12 MJ
36	4274249	3	LATCH HINGE LH BOLT-ON
35	4009540	2	BOLT HX 1-1/4-7 UNC X 2-1/4
34	4009753	18	BOLT HX .500 1.500 NC G8
33	0829683	4	BOLT HX .375 1.750 NC G8
32	0808476	132	BOLT HX .375 1.250 NC G8
31	0810971	59	BOLT HX .375 1.000 NC G8 FT
30	0810970	2	BOLT HX .375 .750 NC G8 FT
29	4009626	6	BOLT HX .313 1.000 NC G8 FT
28	0812278	6	BOLT HEX .250 .63 NC G8 FT
27	4250473	2	WASHER RETAINING SR BOX MOUNT
26	0021545	2	WASHER LOCK SPRING 1.250 2.045 .312
25	4212699	18	WASHER LOCK SPR 1/2 SS
24	0753123	282	WASHER LOCK SPR .375 .68 .09
23	0213584	6	WASHER LOCK SPR .25 .49 .06
22	4010907	5	WASHER LOCK SPR .190 .334 .047
21	0182634	4	WASHER LOCK EXT .195 .41 .03
20	4010914	4	WASHER EXT STAR #6
19	4235533	18	WASHER FLAT .500 SS
18	0808221	306	WASHER FLAT .375 .81 .08
17	4010923	6	WASHER FLAT .250 .63 .065
16	0810880	5	WASHER FLAT .219 .50 .07
15	0725125	4	WASH FLT TYPE A #6
14	0264174	6	WASHER LOCK SPR .323 .59 .08
13	0182170	4	MSCR PH #10-32 NF X 1.0
12	4010283	4	MSCR PH #10 .500 NF
11	4012415	2	MSCR PH #8-32 UNC X 1.00
10	0260712	4	MSCR PH #6-32 UNC-2A x 7/16 LG
9	4012631	1	MSCR PH #10 .438 NF
8	4255295	50	KEPNUT 3/8-16 UNC
7	4100190	18	NUT HX 1/2-13 UNC SS
6	0812921	144	NUT HX .375 NC G8
5	0230017	4	NUT HX #10-32 NF
4	0819903	2	NUT MSCR HX #6 NC
3	4259249	1	METAL CLIP/MOUNTING BRACKET
2	4080928	2	DOOR INTERLOCK SWITCH
1	4258790	1	LAMP WORK LED 9-32V

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1600.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS .094 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

DWN	miller	8-05-16
CHK	JB	8-05-16
ENGR		
PROD ENGR	WAD	8-05-16
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY SR CONV BOX L1350 G3

SIZE E | DO NOT SCALE | DWG NO. 4286226 | REV 02

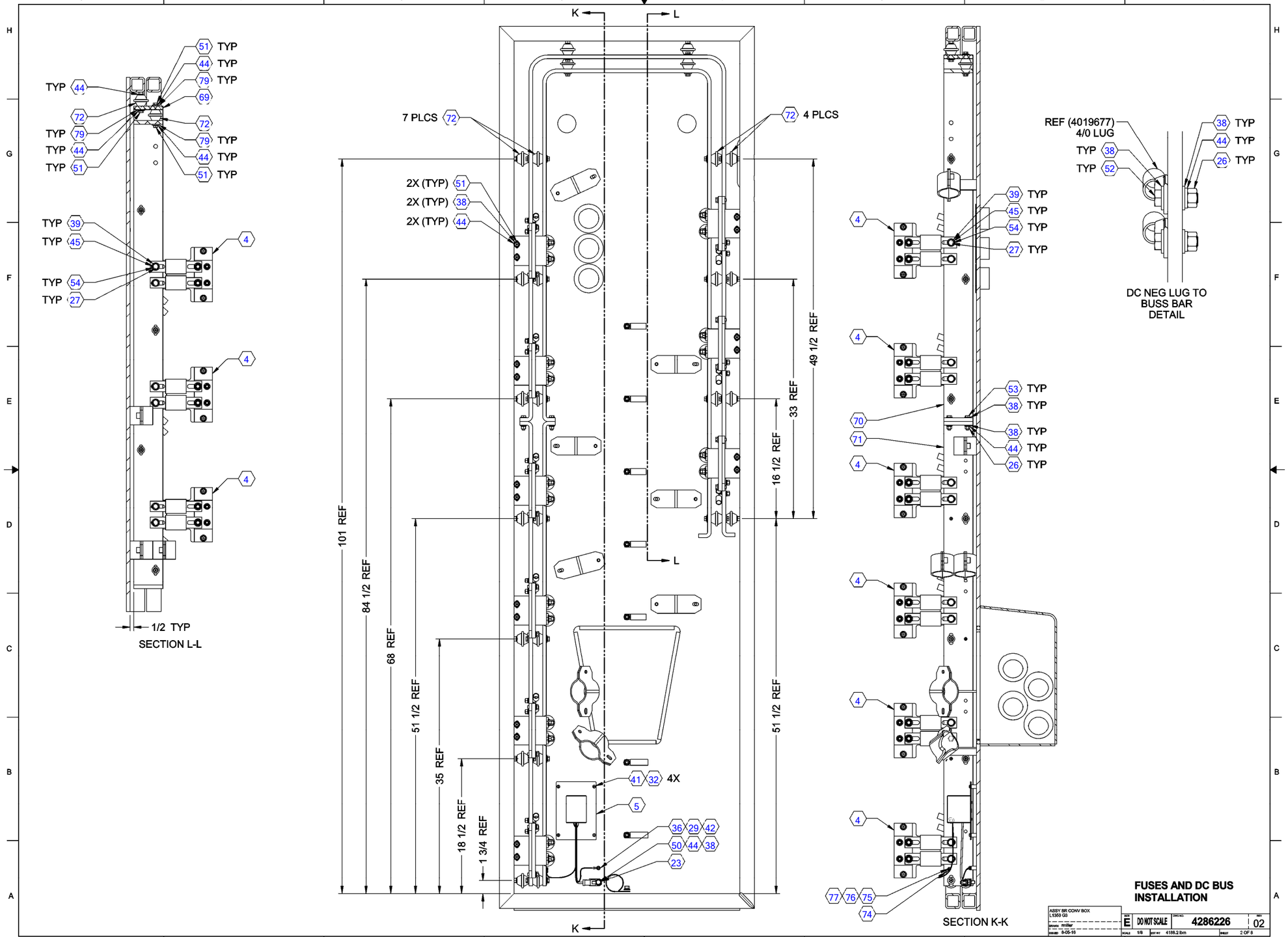
SCALE 1/8 | WT 4188.2 lbs | SHEET 1 OF 6

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HIGH VOLTAGE CABINET ASSEMBLY

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HIGH VOLTAGE CABINET ASSEMBLY

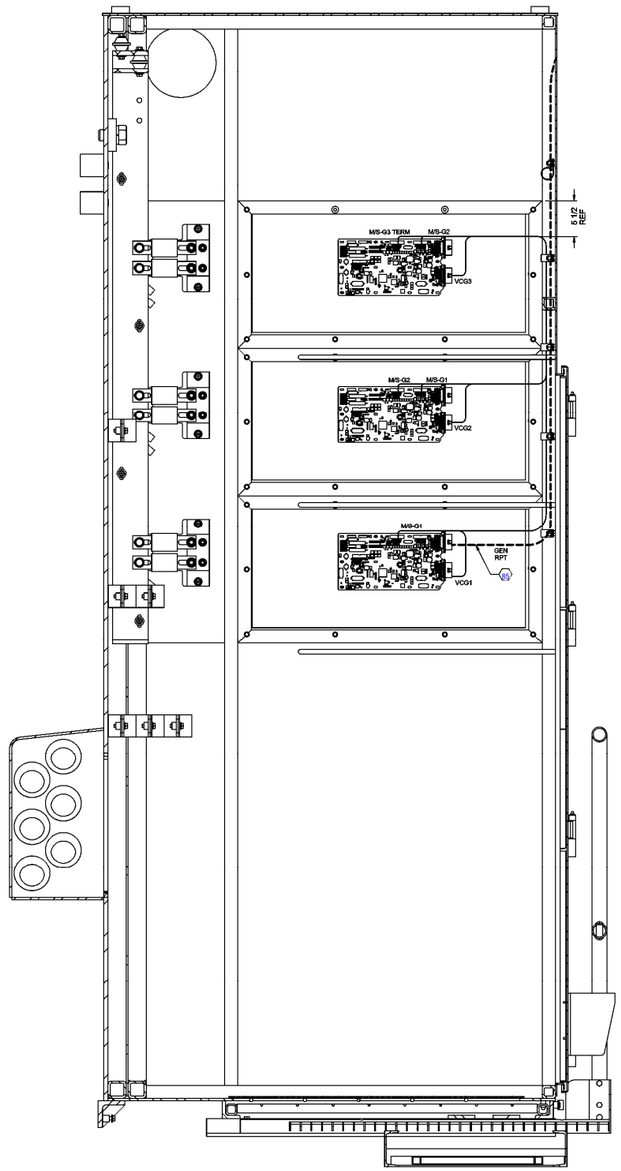


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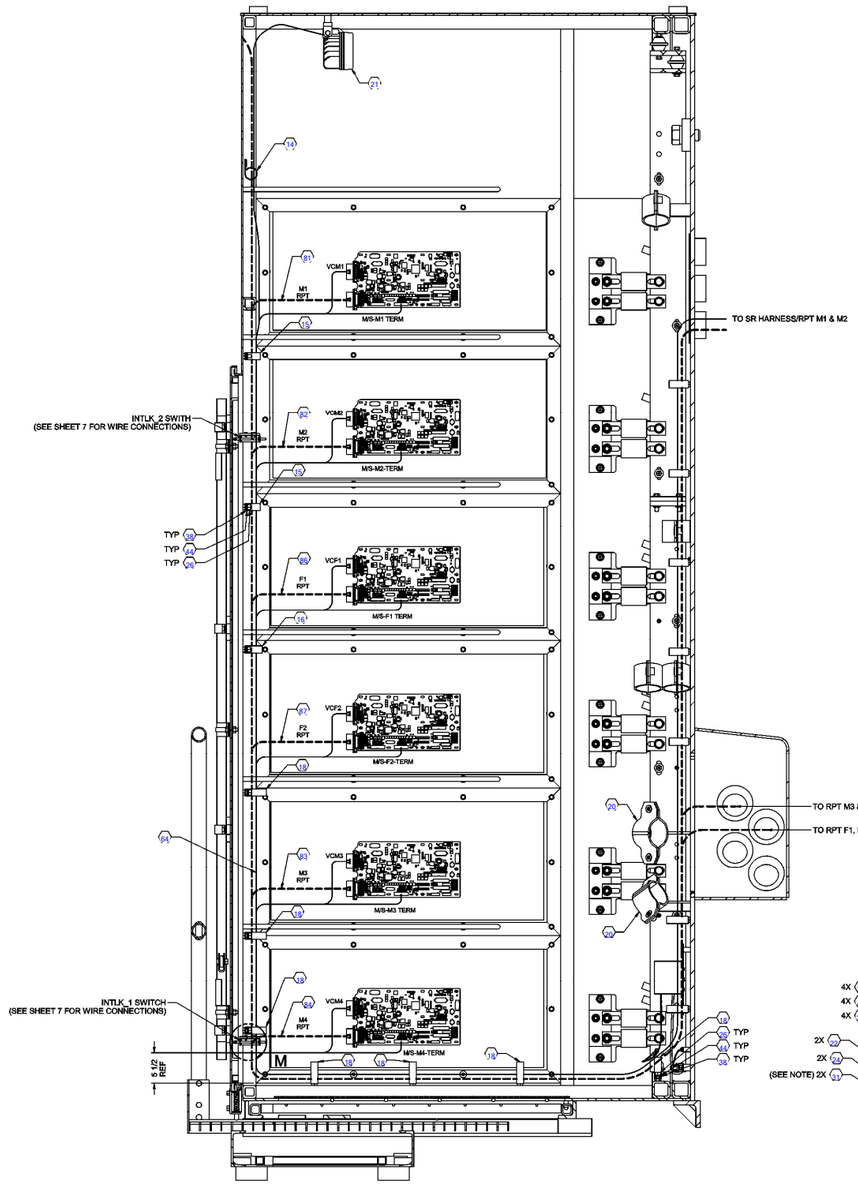
HIGH VOLTAGE CABINET ASSEMBLY

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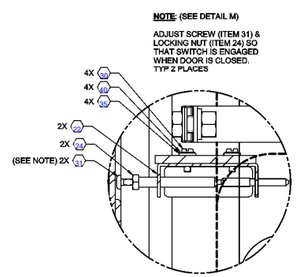
HIGH VOLTAGE CABINET ASSEMBLY



SECTION J-J
ROTATED 90 CCW



SECTION H-H
ROTATED 90° CW



DETAIL M
1:1

INITIAL INTERNAL WIRING

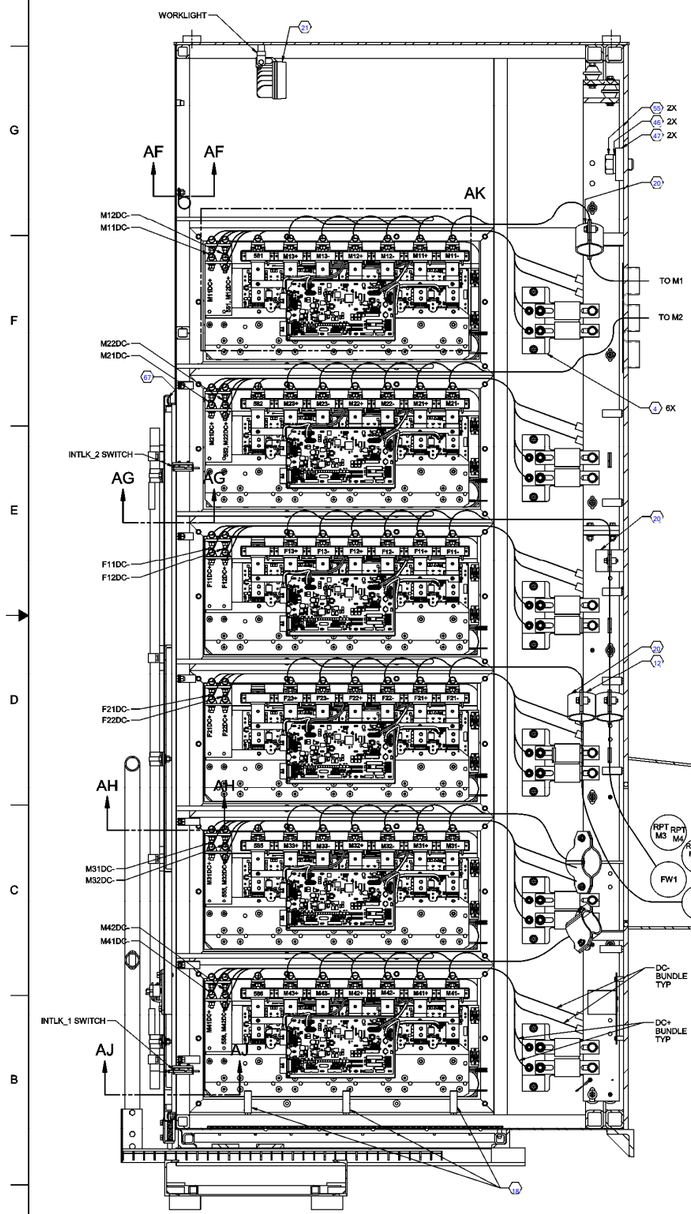
ASSY SR CONV BOX L1303 G3			
drawn: mcmillan	SIZE E	DO NOT SCALE	DWG NO. 4286226 REV 02
DATE 5-05-16	SCALE 1/8	WT 4156.2 lbm	SHEET 3 OF 8

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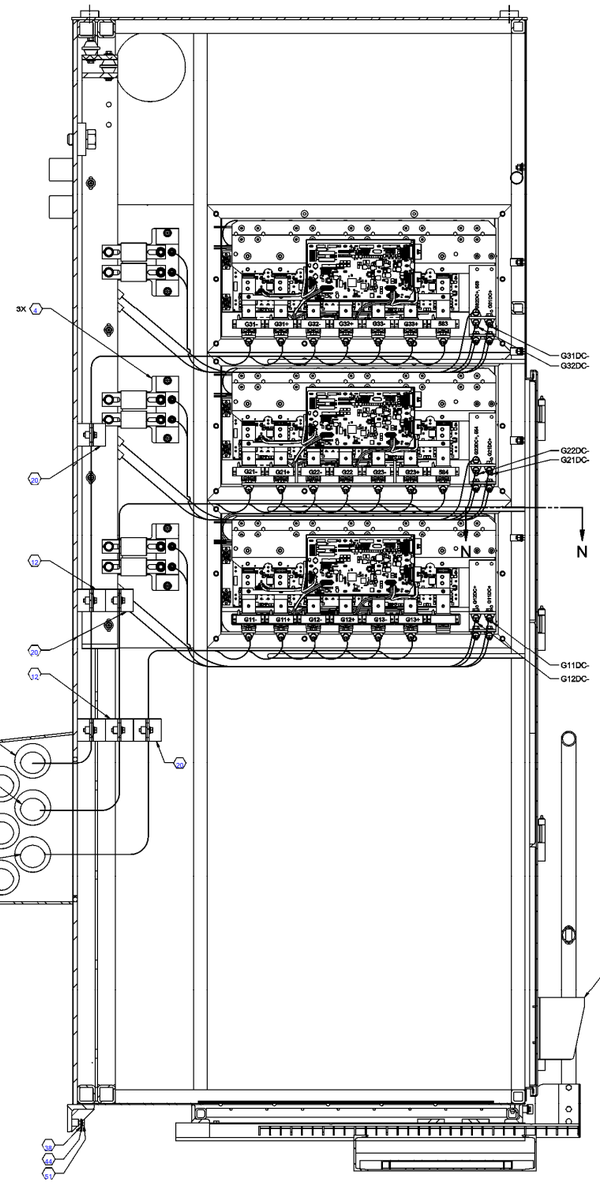
HIGH VOLTAGE CABINET ASSEMBLY

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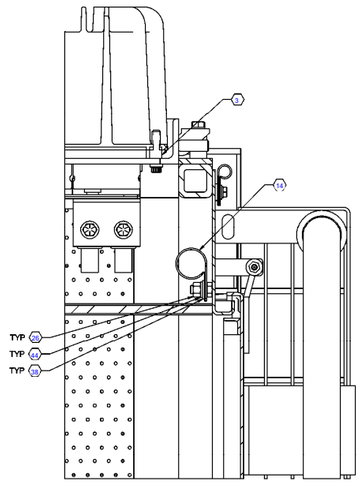
HIGH VOLTAGE CABINET ASSEMBLY



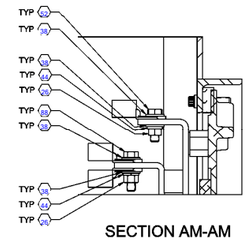
SECTION B-B



SECTION C-C



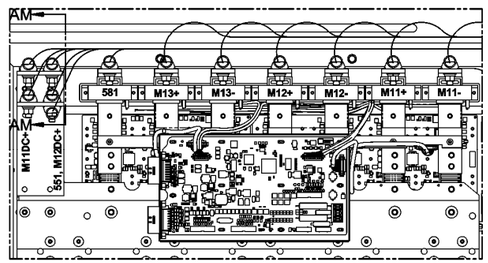
SECTION N-N



SECTION AM-AM

NOTE:

TORQUE ITEM 26
TO 44 FT-LB
TYP



DETAIL AK

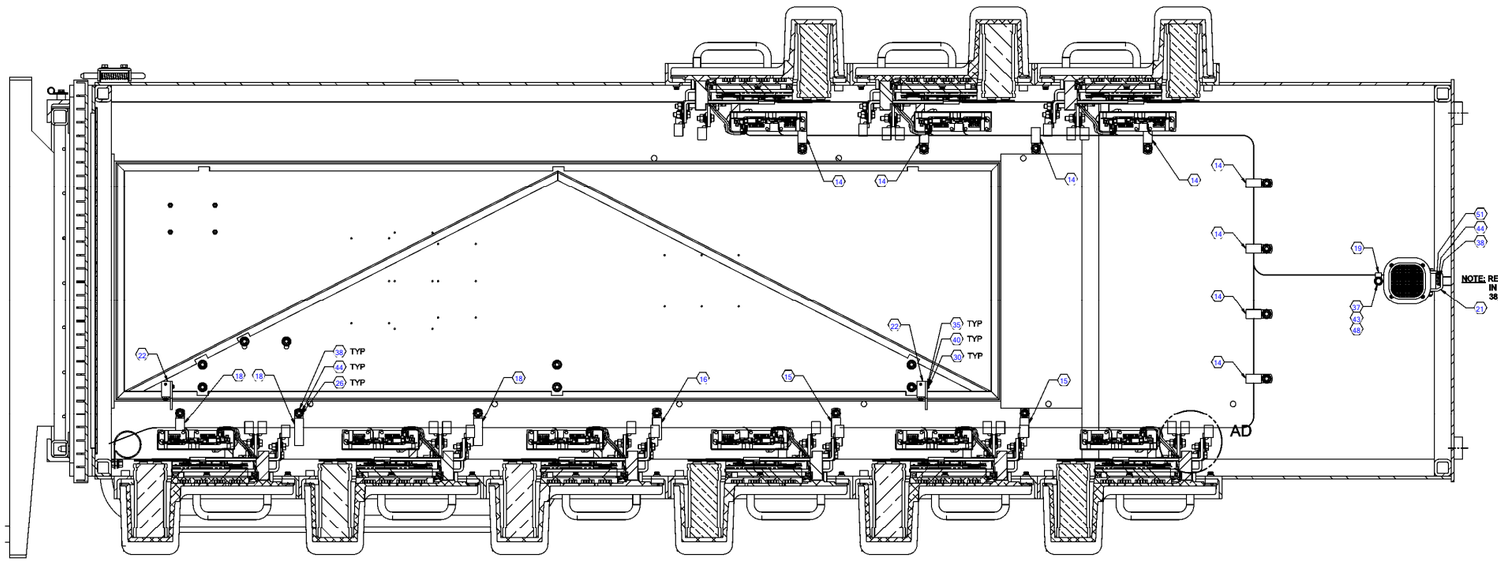
ASSY SR CONV BOX L1350 G3
drawn miller
date 8-05-19
SIZE E
DO NOT SCALE
DWG NO. 4286226
REV 02
SCALE 1/8
WT 4186.2 lbm
SHEET 4 OF 8

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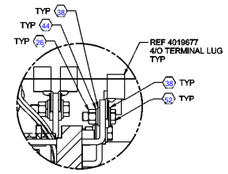
HIGH VOLTAGE CABINET ASSEMBLY

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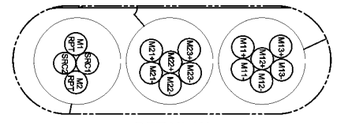
HIGH VOLTAGE CABINET ASSEMBLY



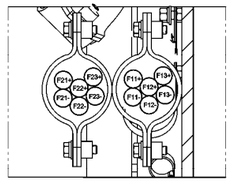
SECTION F-F
ROTATED 90° CW



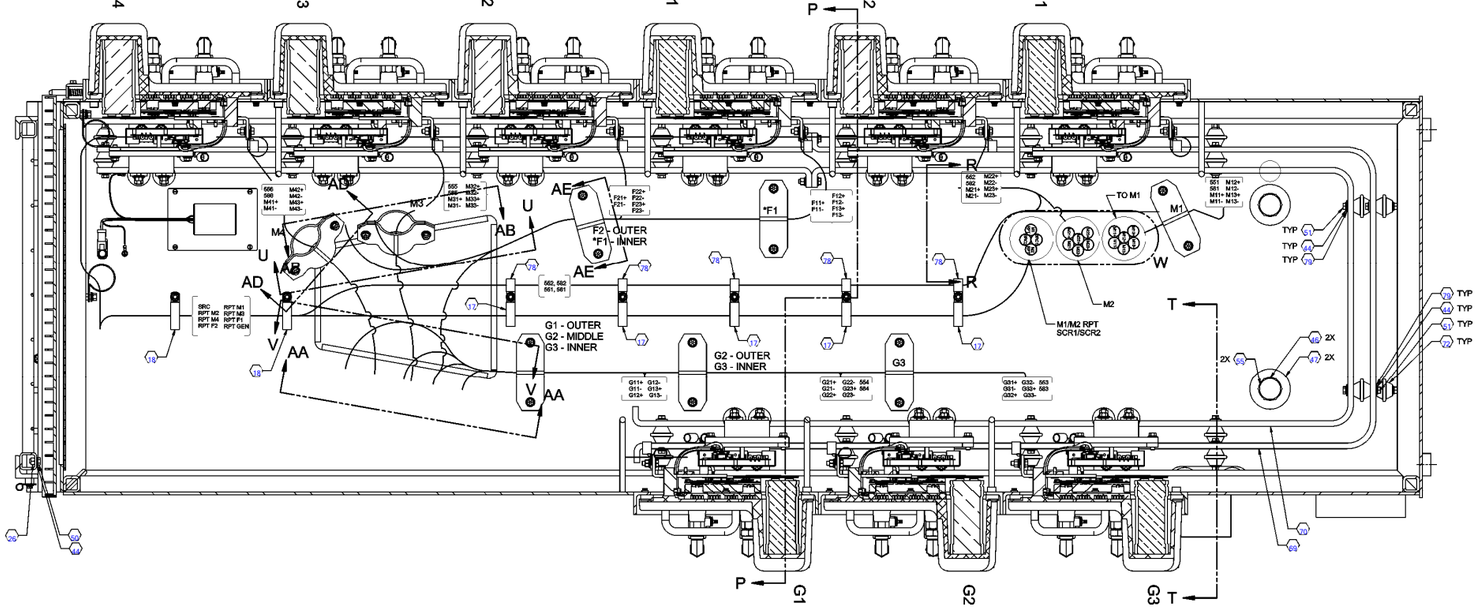
DETAIL AD



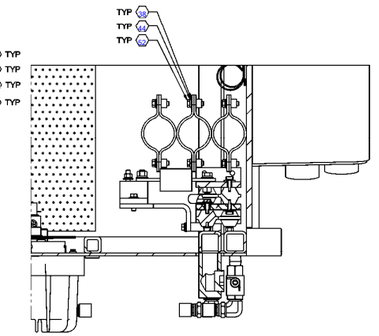
DETAIL W



SECTION AE-AE



SECTION G-G
ROTATED 90° CW



SECTION T-T

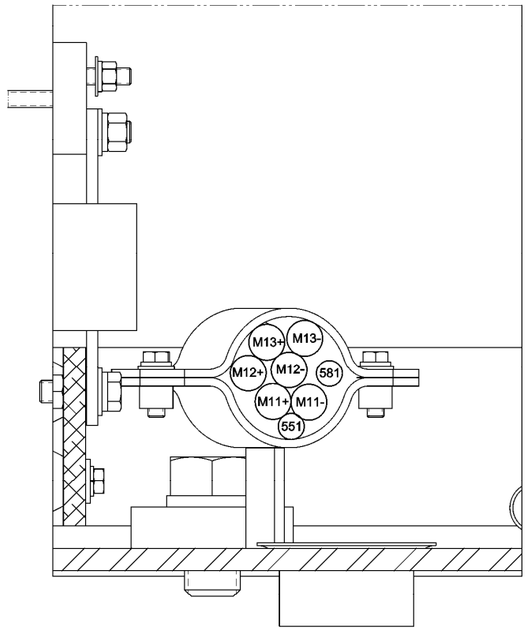
ASSY SR CONV BOX L1500 G3				
drawn thriller				
date 8-05-19		E	DO NOT SCALE	4286226 02
		SCALE 1/8	WT 4186.2 lbm	SHEET 5 OF 8

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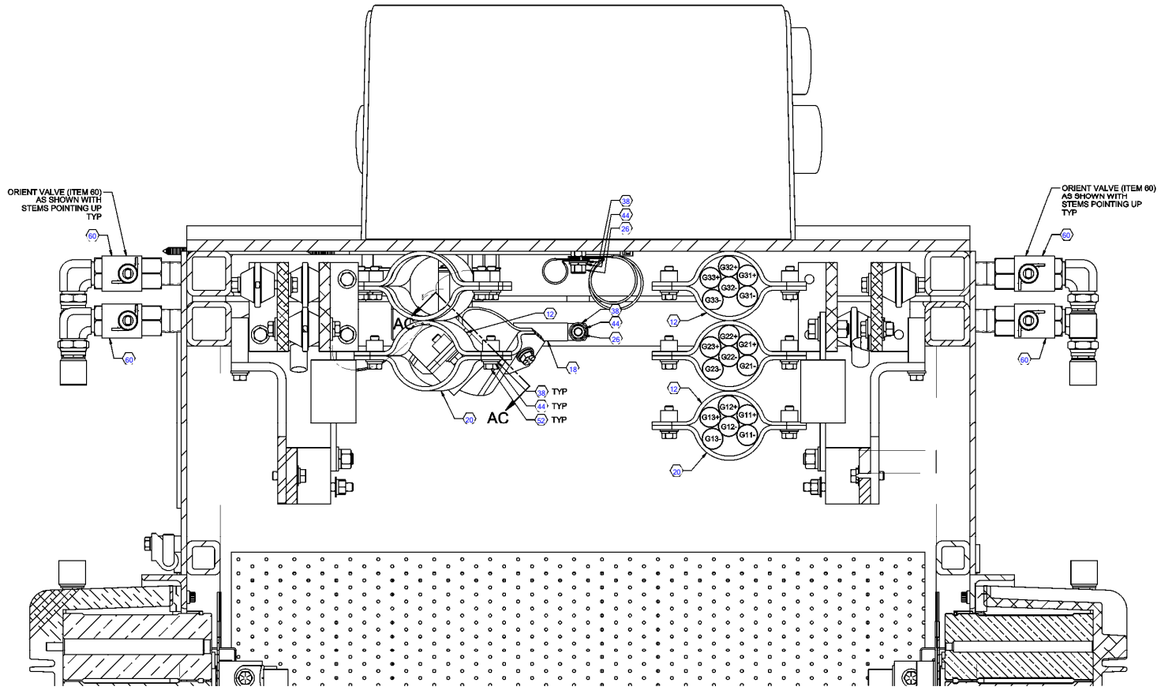
HIGH VOLTAGE CABINET ASSEMBLY

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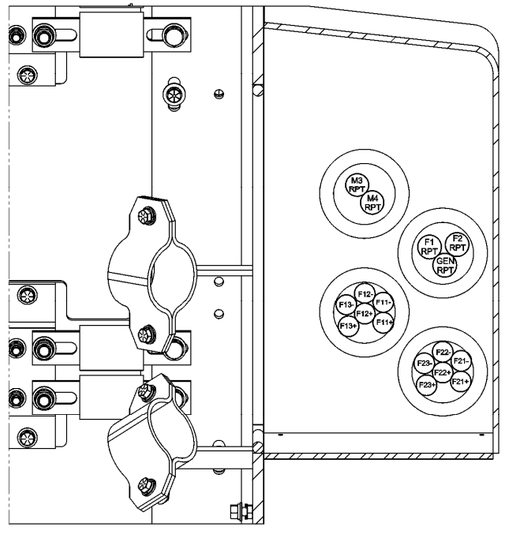
HIGH VOLTAGE CABINET ASSEMBLY



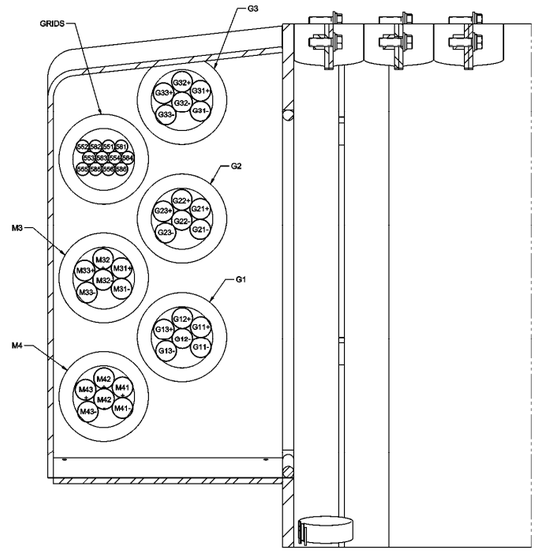
SECTION R-R
ROTATED 90 CCW



SECTION P-P



SECTION U-U
ROTATED 80 CCW



SECTION V-V
ROTATED 100 CCW

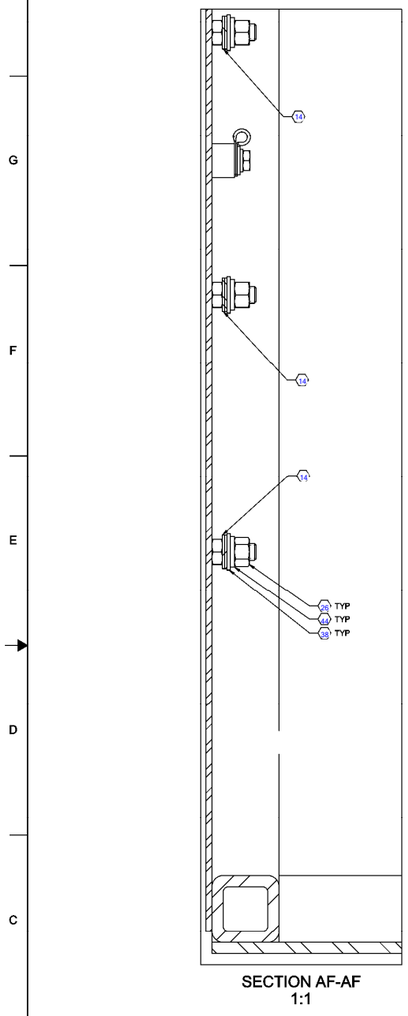
ASSY SR CONV BOX L1350 G3					
drawn miller	REV E	DO NOT SCALE	DWG NO 4286226	REV 02	
date 5-05-16	SCALE 1/8	WT 4186.2 lbm	SHEET 6 OF 8		

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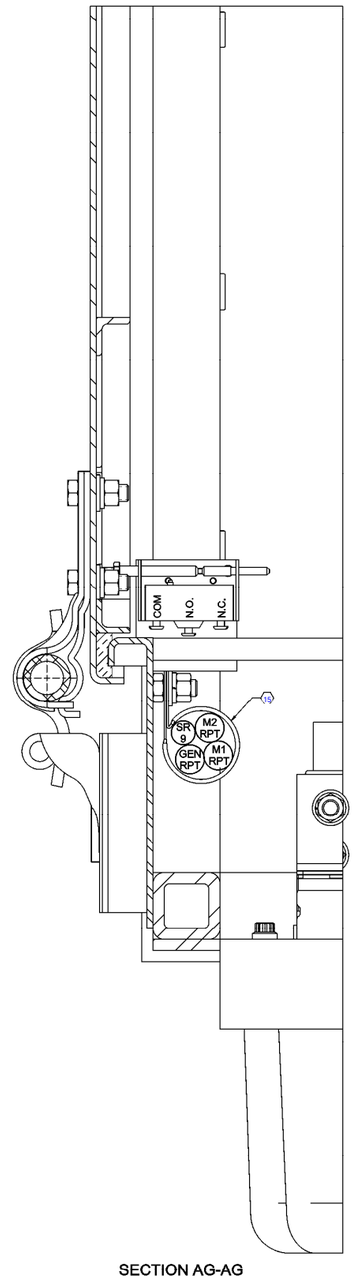
HIGH VOLTAGE CABINET ASSEMBLY

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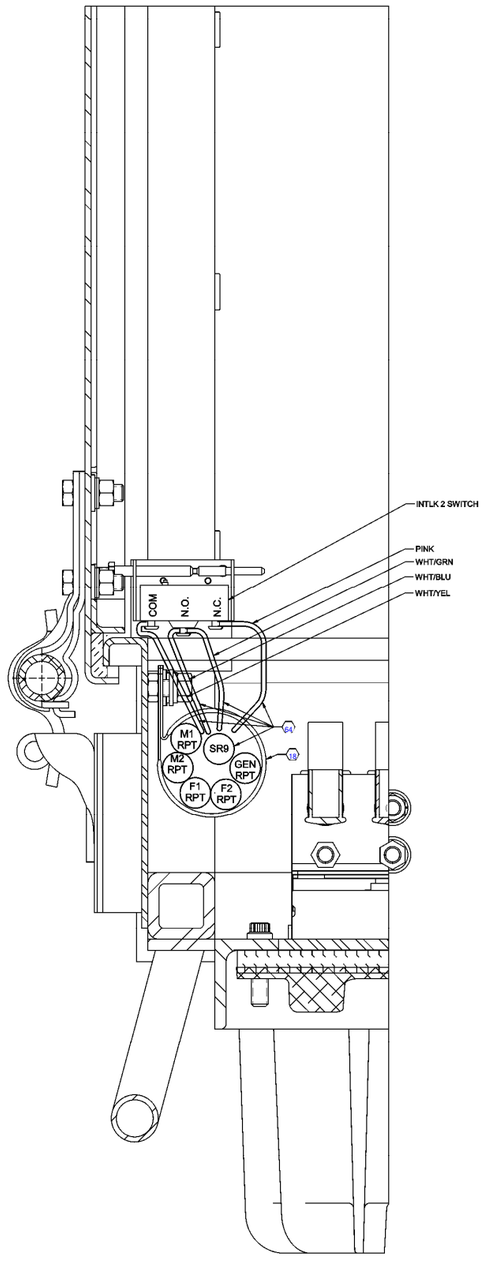
HIGH VOLTAGE CABINET ASSEMBLY



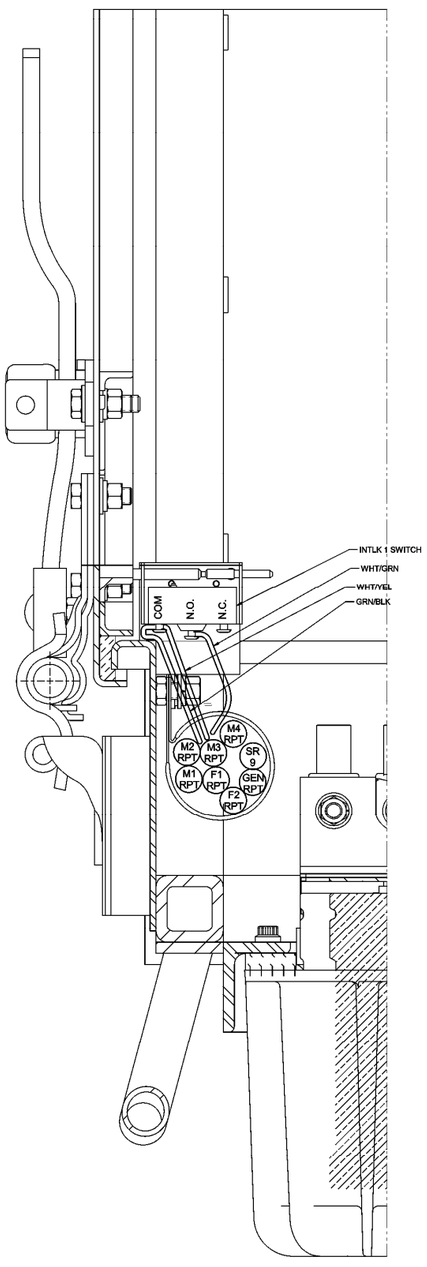
SECTION AF-AF
1:1



SECTION AG-AG



SECTION AH-AH



SECTION AJ-AJ

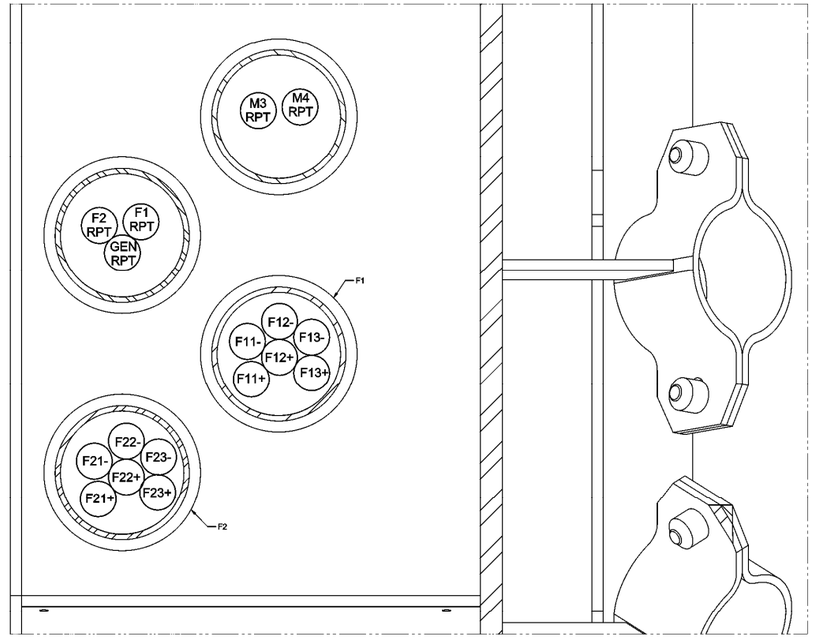
ASSY SR CONV BOX L1500 G5	SIZE E	DO NOT SCALE	DWG NO. 4286226	REV 02
DRAWN thrillar	SCALE 1/8	WGT WT 4186.2 lbm	SHEET 7 OF 8
DATE 8-05-19			

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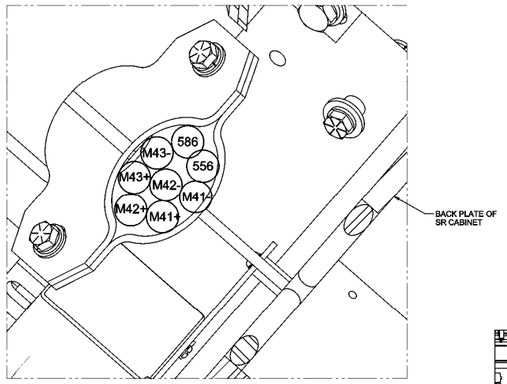
HIGH VOLTAGE CABINET ASSEMBLY

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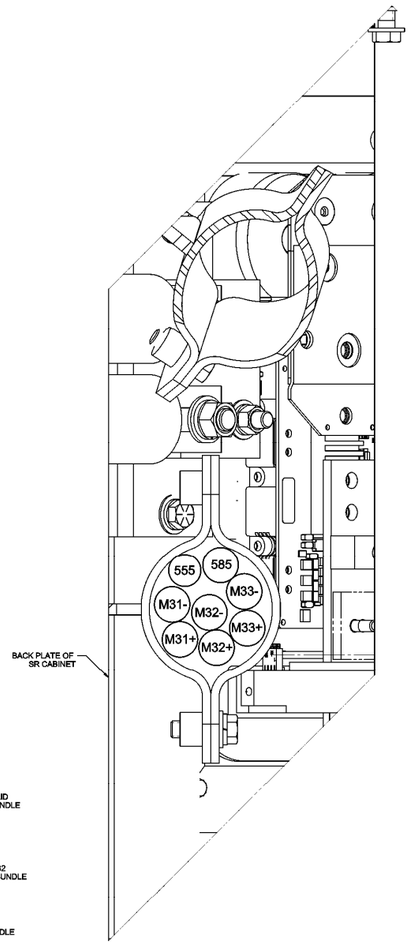
HIGH VOLTAGE CABINET ASSEMBLY



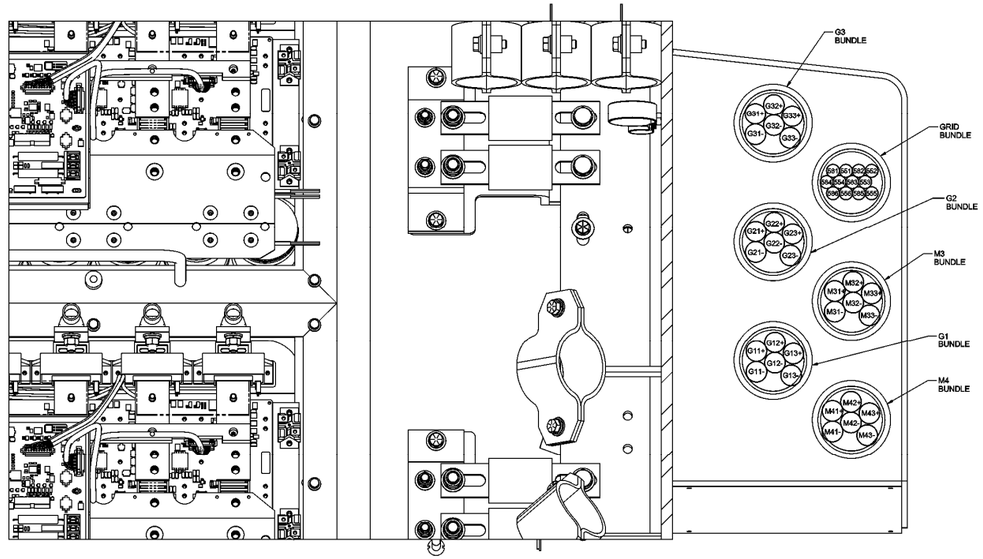
SECTION AB-AB
ROTATED 80 CCW



SECTION AD-AD



SECTION AC-AC
ROTATED 45° CCW



SECTION AA-AA
ROTATED 100 CW

ASSY SR CONV BOX L1300 G3	SIZE E	DO NOT SCALE	DWG NO. 4286226 REV 02
DRAWN Schiller	SCALE 1/8	WT 4156.2 lbm	SHEET 8 OF 8
DATE 5-05-16			

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HIGH VOLTAGE CABINET ASSEMBLY

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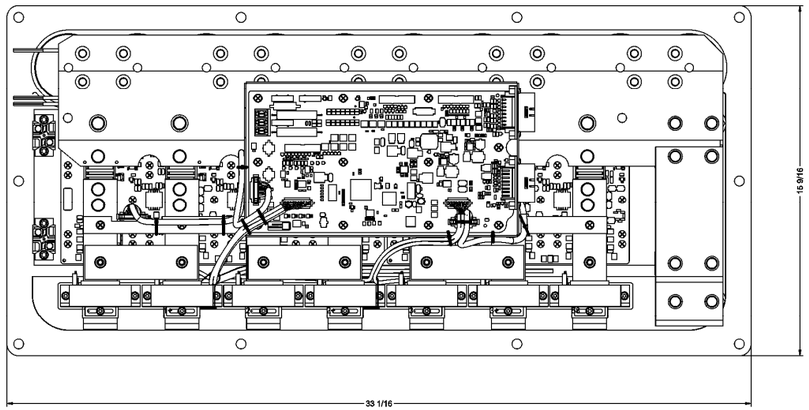
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4286226			HIGH VOLTAGE CABINET ASSEMBLY		
1	R4286227	1		· HIGH VOLTAGE CABINET BOX STRUCTURE		
	R4267807	1		· · DOOR PANEL		
	R4062579	4		· · HINGE EYE STRUCTURE - WELDED ON DOOR		
	R4273188	4		· · HINGE PIN BLOCK - WELDED ON CABINET		
	R0020315	4		· · FITTING, GREASE - 1/8" MP		
	R4012927	4		· · COUPLING, PIPE - HALF 1/8" FP - WELDED ON HINGE		
	R4238834	1		· · LATCH KIT, MULTI POINT		
	R4238826	1		· · CAM, MULTI POINT LATCH		
	R4238878	1		· · KEEPER, MULTI POINT LATCH		
	R4278393	1		· · TUBE, MULTI POINT LATCH - 72"		
2	R4279796	9		· CONVERTER ASSEMBLY, INFINEON		
3	R4259174	9		· GASKET, CONVERTER		
4	R4286230	9		· FUSE PANEL ASSEMBLY, 750V		
	R4259194	18		· · FUSE, 450A 700V - SEMICONDUCTOR		
5	R4292582	1		· ISOLATION MONITOR ASSEMBLY		
6	R4274515	1		· PUSHBUTTON ASSEMBLY, E-STOP		
7	R4258526	1		· GUARD STRUCTURE, EMERGENCY STOP		
8	R4269414	1		· HANDRAIL STRUCTURE, SLIDE OUT PLATFORM		
9	R4269410	1		· PLATFORM STRUCTURE, SLIDE/STEP		
10	R4274252	1		· PLATFORM STRUCTURE, SLIDE OUT		
11	R4267760	1		· LADDER STRUCTURE		
12	R4250840	4		· CLAMP HALVES STRUCTURE, 3"		
13	R4153802	5		· CLAMP, CABLE - INSULATED, 1/2"		
14	R0986144	8		· CLAMP, CABLE - INSULATED, 1-1/4"		
15	R0986145	2		· CLAMP, CABLE - INSULATED, 1-1/2"		
16	R0986146	1		· CLAMP, CABLE - INSULATED, 1-3/4"		
17	R4014475	5		· CLAMP, CABLE - INSULATED, 2"		
18	R4126813	9		· CLAMP, CABLE - INSULATED, 2-1/4"		
19	R0989002	1		· CLAMP, CABLE - INSULATED, 1/4"		
20	R0987618	8		· CLAMP HALF, 3" O.D.		
21	R4258790	1		· LAMP ASSEMBLY, WORK - LED, 9-32V		
22	R4060928	2		· SWITCH, DOOR INTERLOCK		
23	R4259249	1		· MOUNTING BRACKET		
24	R0819903	2		· NUT, #8-32		
25	R0230017	4		· NUT, #10-32		
26	R0812921	144		· NUT, 3/8"-16		
27	R4100190	18		· NUT, 1/2"-13 - S.S.		
28	R4255295	90		· LOCKNUT, 3/8"-16 - EXTERNAL, TOOTH		
29	R4012631	1		· SCREW, #10-32 X 7/16"		
30	R0260712	4		· SCREW, #6-32 X 7/16" - P.H.		
31	R4012415	2		· SCREW, #8-32 X 1"		
32	R4010283	4		· SCREW, #10-32 X 1/2" - P.H.		
33	R0182170	4		· SCREW, #10-32 X 1" - P.H.		
34	R0264174	6		· LOCKWASHER, 5/16"		
35	R0725125	4		· FLATWASHER, #6		
36	R0810880	5		· FLATWASHER, #10		
37	R4010923	6		· FLATWASHER, 1/4"		
38	R0808221	306		· FLATWASHER, 3/8"		
39	R4235533	18		· FLATWASHER, 1/2" - S.S.		
40	R4010914	4		· LOCKWASHER, #6 - EXTERNAL, TOOTH		
41	R0182634	4		· LOCKWASHER, #10 - EXTERNAL, TOOTH		
42	R4010907	5		· LOCKWASHER, #10		
43	R0213584	6		· LOCKWASHER, 1/4"		
44	R0753123	262		· LOCKWASHER, 3/8"		
45	R4212699	18		· LOCKWASHER, 1/2" - S.S.		
46	R0021545	2		· LOCKWASHER, 1-1/4"		

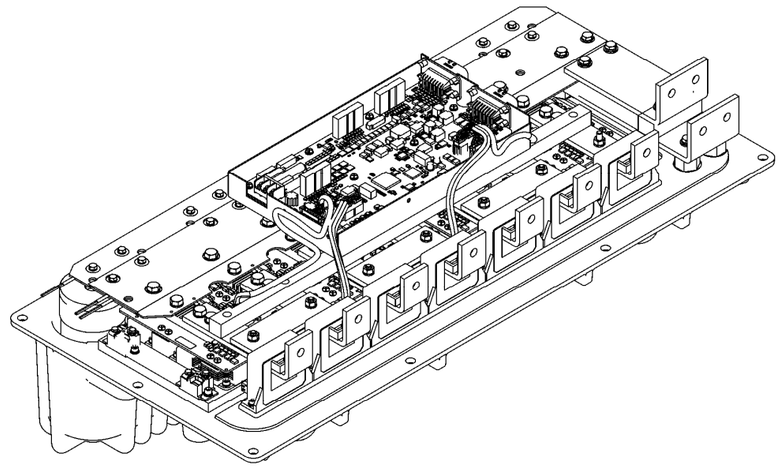
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
47	R4250473	2		· RETAINING WASHER, BOX MOUNT		
48	R0812278	6		· BOLT, 1/4"-20 X 5/8"		
49	R4009626	6		· BOLT, 5/16"-18 X 1"		
50	R0810970	2		· BOLT, 3/8"-16 X 3/4"		
51	R0810971	59		· BOLT, 3/8"-16 X 1"		
52	R0808476	132		· BOLT, 3/8"-16 X 1-1/4"		
53	R0829683	4		· BOLT, 3/8"-16 X 1-3/4"		
54	R4009753	18		· BOLT, 1/2"-13 X 1-1/2"		
55	R4009540	2		· BOLT, 1-1/4"-7 X 2-1/4"		
56	R4274249	3		· LATCH, SPRING		
57	R4013080	18		· ADAPTER, #8 MO X #12 MJ		
58	R4002481	18		· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
59	R4002441	18		· ELBOW, 3/4" MP X 90 deg. X #12 MJ		
60	R4278368	18		· VALVE, DRAIN - 3/4"		
61	R4265811	18		· ROD, THREADED - 7" X 3/8"-16		
62	R4262074	9		· HOSE ASSEMBLY, #12 X 11"		
63	R4262075	9		· HOSE ASSEMBLY, #12 X 13-1/4"		
64	R4016245	1		· HARNESS ASSEMBLY, SR 9 CONVERTER		
65	R4018728	100		· CABLE TIE, 4"		
66	R4069344	200		· CABLE TIE, 4"		
67	R4267818	1	FT	· SEAL, SPONGE - 1" X 3/8"		
68	R4148481	125	FT	· RUBBER SHIELD, NEOPRENE - 1/16" X 5"		
69	R4286248	1		· BUS BAR DC, NEGATIVE - 1/2" X 4"		
70	R4286249	1		· BUS BAR DC, POSITIVE - 1/2" X 4"		
71	R4286250	2		· BUS BAR, 1/2" X 4" X 63-7/8"		
72	R4279683	26		· INSULATOR, CENTER POST - 3/8"-16 X 1-1/2"		
73	R4286251	1		· DRAWING, LEAD DETAIL		
74	R4019417	1		· TERMINAL, WIRE - #16-14, #8 HOLE		
75	R4010922	1		· FLATWASHER, 3/16"		
76	R4157833	1		· LOCKWASHER, #8 - S.S.		
77	R0275370	1		· SCREW, #8-32 X 1/2" - P.H.		
78	R0986143	5		· CLAMP, CABLE - INSULATED, 1"		
79	R0233042	39		· FLATWASHER, 3/8"		
80	R4103739	1		· SEALANT, HYDRAULIC - LOCTITE #569-31		
81	R4286306	1		· CABLE ASSEMBLY, RPT-RTD M1 1350 G3		
82	R4286307	1		· CABLE ASSEMBLY, RPT-RTD M2 1350 G3		
83	R4286308	1		· CABLE ASSEMBLY, RPT-RTD M3 1350 G3		
84	R4286309	1		· CABLE ASSEMBLY, RPT-RTD M4 1350 G3		
85	R4286310	1		· CABLE ASSEMBLY, RPT-RTD GEN 1350 G3		
86	R4286311	1		· CABLE ASSEMBLY, RPT-RTD FW1 1350 G3		
87	R4286312	1		· CABLE ASSEMBLY, RPT-RTD FW2 1350 G3		
88	R4009640	6		· BOLT, 3/8"-16 X 1-1/2"		
	R4506203	REF		PIN, QUICK RELEASE - 1/2" X 2-3/8"	2	
	R1503642	AR		CHAIN, #50 SASH		
	R4290256	REF		SR COOLER PLUMBING GROUP (PAGE 5.36-5.36A)		
		REF		DRAWING, HIGH VOLTAGE CABINET ASSEMBLY (R428622602)		

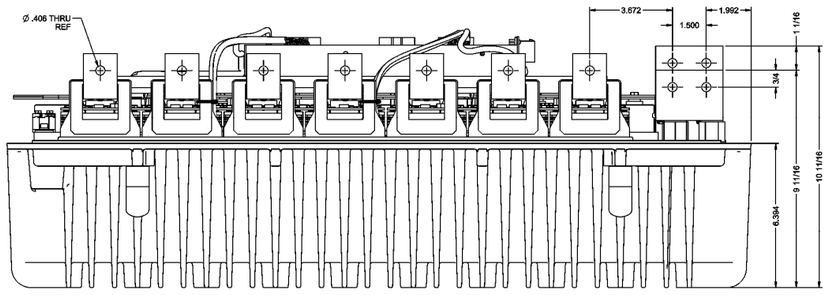
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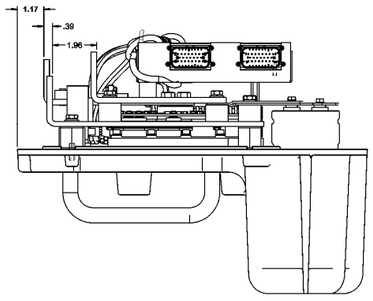
CONVERTER ASSEMBLY





ISOMETRIC VIEW





ITEM	PART NO.	QTY	DESCRIPTION
58	4279841	1	CABLE ASSY HIGHSIDE CT
57	4279840	1	CABLE ASSY, LOWSIDE CT
56	4279837	2	HARNESS RIBBON 11 INCH
55	4279834	0.010	ADHESIVE LOCTITE 263
54	4170160	0.33	HEAT SHRK CLR .125 2:1
53	4001297	0.50	INSULATION SHRINKABLE 1/8 INCH
52	4019412	4	TERM WIRE RT 22 16 #6 INS
51	4019411	2	TERM WIRE RT 22 16 #6 INS
50	4018727	7	TIE WRAP
49	4018726	5	TIE WRAP
48	4018725	5	TIE WRAP
47	4259336	6	WASHER, FLAT M5, 5.5 10 1.1 SS
46	4264464	38	WASHER FLAT M4
45	4010923	8	WASHER FLAT .250 .63 .065
44	4259193	96	WSHR, SPG LK, M5 5.35 9.15 1.2 SS
43	4259178	98	WSHR, SPR LK, M4 4.35 7.55 .9 SS
42	4259177	28	WASHER, SPG LK, M8 8.55, 14.85, 2
41	0213564	15	WASHER LOCK SPR .25 .49 .06
40	4012935	7	NUT HEX .250 NC G8 PL
39	4016009	4	SSCR HX .250 .750 NC CUP
38	4259297	8	SCR PH #4 -24 x 3/8 LG TAPTITE
37	4259295	13	MSCR PH M4 -.70 x 16 LG
36	4264497	60	MSCR PH M4 - .70 X 10
35	4265104	2	BOLT HX .250 1.500 NC SS
34	4105641	4	BOLT HX 1/4-20 UNC X 1 LG
33	4105638	2	BOLT HX 1/4-20 UNC X 5/8 LG
32	4259175	14	BOLT HX M8 -1.25 X 20
31	4264463	14	BOLT HX M8 -1.25 X 16
30	4259182	22	BOLT HX M5 - .80 X 12
29	4259282	4	BOLT, HEX HD M4 x 6MM LG
28	4041223	4	CTR POST INSULATOR 1/4-20 NC
26	4259176	72	CSCR SOC HD M5 -.80 x 12
25	4275668	21	CSCR SOC HD M4 -.70 x 12
22	4259191	0.004	THERMAL GREASE
21	4272150	1	BUS BAR, DC BTM
20	4272151	1	BUS BAR, DC TOP
19	4279799	7	BUS BAR IGBT OUTPUT W/INSERT
17	4259215	1	SPACER BLOCK, BUS BAR
16	4272646	2	STANDOFF 8 MM HEX
15	4274297	1	STANDOFF IGBT BUS BAR
14	4259222	1	STANDOFF, BUS BAR PHENOLIC
13	4272152	1	STANDOFF, BUS BAR PHENOLIC
12	4279833	1	INFINITY CONTROL BOARD
11	4259299	1	BOX, CONVERTER PANEL PCB MOUNT
10	4272146	1	ASSY BUS BAR ELDRE
9	4258686	7	CURRENT TRANSDUCER HAT 600-S
8	4259147	2	RESISTOR, PWR SERIES HPS 150
7	4259683	10	CAPACITOR 6000uF WITH STUD
6	4279832	1	PRIMEPACK GATE DRIVER 4 IGBT
5	4279831	1	PRIMEPACK GATE DRIVER 3 IGBT
4	4274285	1	IGBT 900A1200A HALF BRIDGE
3	4269432	3	IGBT 900A1200A HI SIDE CHOPPER
2	4269431	3	IGBT 900A1200A LOWSIDE CHOPPER
1	4275584	1	COLDPLATE STRUCTURE

NOTES:

1. ALL DIMENSIONS ARE REFERENCE.
2. REFERENCE HARDWARE SPECIFICATIONS:
   426-4498 MSCR PH METRIC STAINLESS
   426-4498 CSCR SOC HD METRIC STAINLESS
   426-4499 BOLT HEX METRIC STAINLESS
   427-2630 WASHER LOK HELICAL SPR METRIC
   427-2631 WASHER FLAT METRIC
3. TEST ACCORDING TO 426-4018 AND GEN 3 CONVERTER TEST SOFTWARE.

REFERENCE ITEMS:

04
1. 425-9174 GASKET, CONVERTER
2. 425-9192 THERMAL GREASE STENCIL 7 IGBT
3. 426-7778 THERMAL GREASE STENCIL 1 IGBT
4. 427-9800 BUSBAR BRIDGE

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.010
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

DWN	miller	1-07-13
CHK	JB	1-25-13
ENGR		
PROD ENGR	WAD	1-25-13
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

SR CONVERTER ASSY BRIDGEABLE

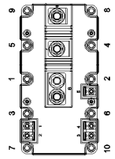
SIZE E | DO NOT SCALE | DRWG NO. 4279796 | REV 04

SCALE 1/2 | WT/WT 107 lbm | SHEET 1 OF 3

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CONVERTER ASSEMBLY

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TORQUE SEQUENCE DETAIL
TYP IGBT MODULES

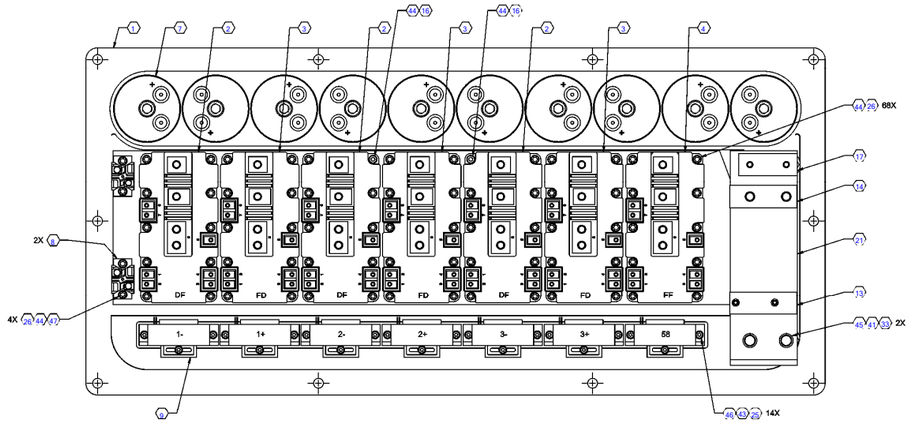
TORQUE CHART		
SIZE	DESCRIPTION	TORQUE
M5	CAPACITOR TERMINAL	29
M5	IGBT MOUNT	53
M4	IGBT GATE TERMINAL	16
M8	IGBT POWER TERMINAL	89
M5	BALANCE RESISTOR MOUNT	53
M4	BALANCE RESISTOR TERMINAL	12
M4	CURRENT TRANSDUCER	16
1/4	DC BUS BARS	89
M5	CAPACITOR MOUNT POSTS	12
M4	CONTROL BOARD MOUNT	16

FIRST STAGE OF ASSEMBLY

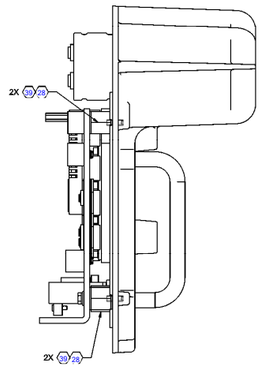
1. CLEAN AND DEBUR COLD PLATE AS NECESSARY.
2. PLACE GREASE STENCIL OVER COLD PLATE AND APPLY THERMAL COMPOUND TO COLD PLATE BEFORE INSTALLING IGBT'S AND RESISTORS.
3. OBSERVE THE CORRECT TORQUE SEQUENCE (SEE TORQUE SEQUENCE DETAIL) AND THE CORRECT BOLT TORQUE WHEN FASTENING THE IGBTS TO THE COLD PLATE.
4. OBSERVE THE CORRECT BOLT TORQUE WHEN FASTENING THE RESISTORS TO THE COLD PLATE. NOTE THAT THE RESISTOR MOUNTING HARDWARE INCLUDES FLAT WASHERS AND THE IGBT'S DO NOT.
5. SCREW CAPACITOR POSTS TIGHTLY INTO PLACE BEFORE INSTALLING CAPACITORS. LEAVE THE CAPSCREW THAT SECURES THE CAPACITORS SLIGHTLY LOOSE UNTIL BUS STRUCTURE IS INSTALLED.

   NOTE: INSTALLING CAPACITORS OVER POSTS MAY REQUIRE THE USE OF AN ENGINEERING APPROVED LUBRICANT (CR 3-36 OR MINERAL OIL). ONLY TWIST CAPACITORS IN A CLOCKWISE DIRECTION WHILE INSTALLING THE CAPACITOR.

6. LABEL THE CT CABLES ACCORDING TO THE POINT TO POINT WIRING CHART.
7. CONNECT THE CURRENT TRANSDUCER CABLE ASSEMBLY TO THE CURRENT TRANSDUCER (CT) BEFORE MOUNTING THE CT TO THE COLD PLATE.

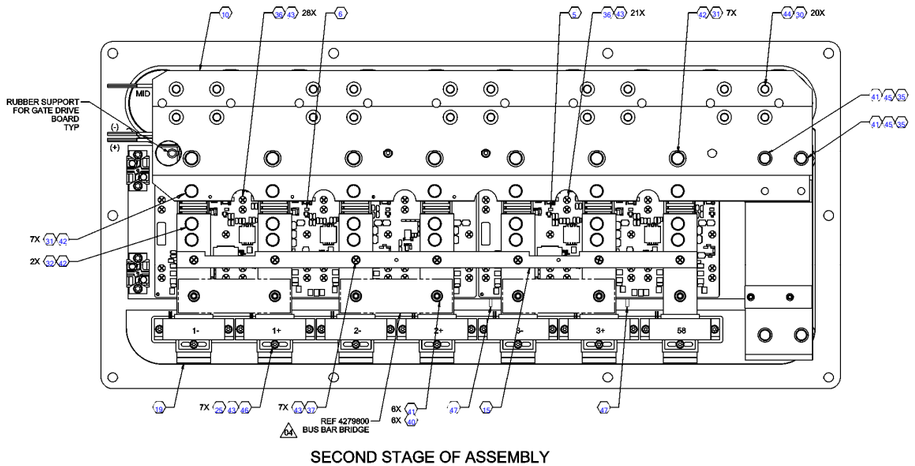


FIRST STAGE OF ASSEMBLY
1:2

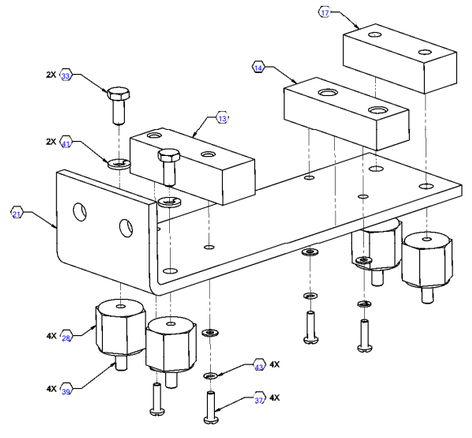


SECOND STAGE OF ASSEMBLY

1. OBSERVE THE CORRECT BOLT TORQUES WHEN FASTENING THE GATE DRIVER BOARDS TO THE IGBT'S.
2. OBSERVE THE CORRECT BOLT TORQUES WHEN FASTENING THE BUS BAR TO THE CAPACITORS AND THE IGBT'S.
3. LABEL RIBBON CABLES ACCORDING TO THE POINT TO POINT WIRING CHART AND SHRINK THE SHRINK TUBING OVER THE LABELS.
4. GET ALL FASTENERS ASSOCIATED WITH THE IGBT GUPUT BUS BARS STARTED BUT LEAVE LOOSE. TIGHTEN THE M4 SCREWS IN THE PHENOLIC STANDOFF FIRST, FOLLOWED BY THE M8 BOLTS FASTENING THE IGBT OUTPUT BUS BARS TO THE IGBTS, AND FINALLY THE M4 SCREWS FASTENING THE CTS TO THE IGBT OUTPUT BUS BARS.
5. TIGHTEN THE CAPSCREWS THAT SECURE THE CAPACITORS TO THE COLD PLATE.



SECOND STAGE OF ASSEMBLY
1:2



BTM BUS BAR ASSEMBLY
1:1

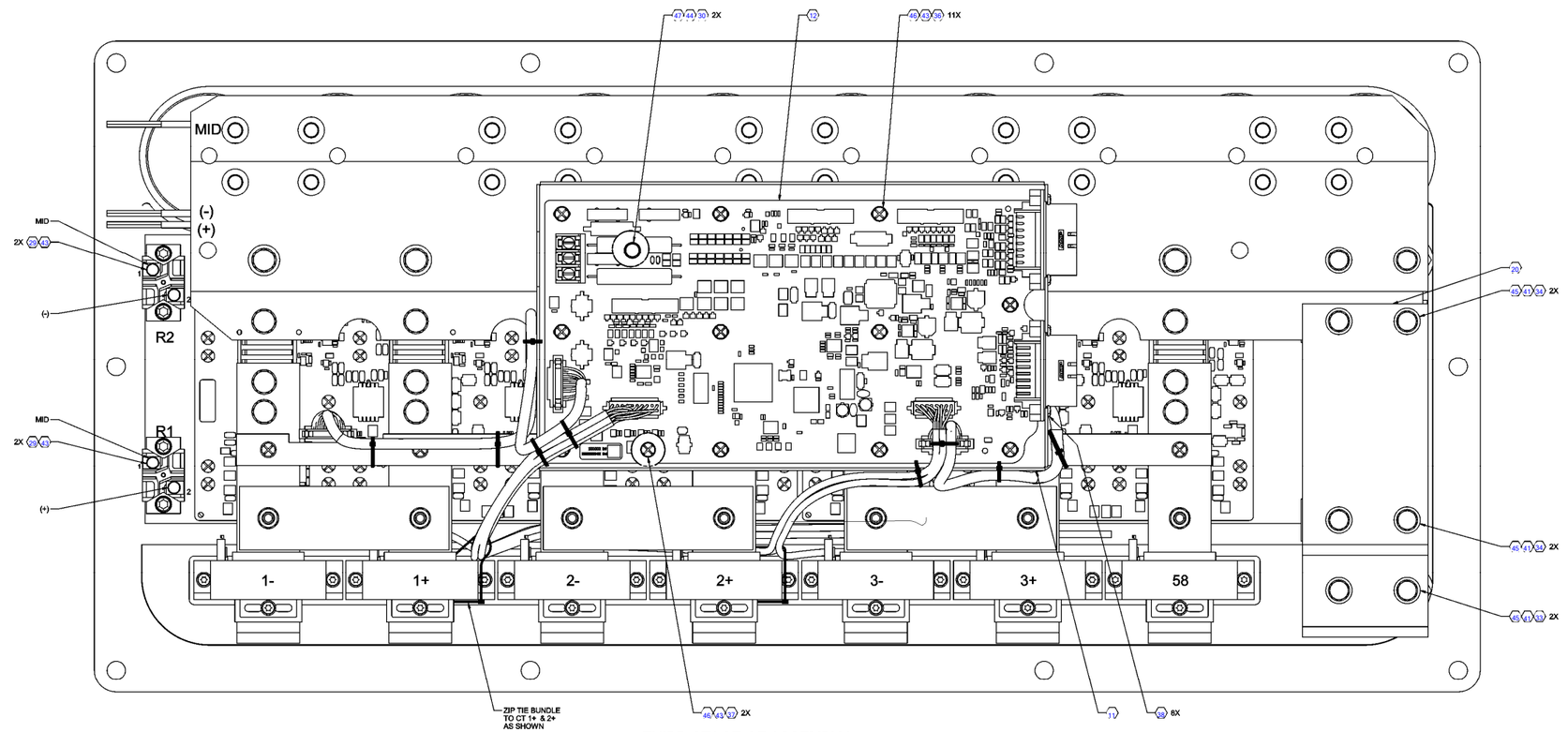
CONVERTER ASSEMBLY BRIDGEABLE		SIZE E	DO NOT SCALE	DWG NO. 4279796	REV 04
DRAWN miller					
DESIGN 1-26-13		SCALE 1/2	WEIGHT 107 lbm	SHEET 2 OF 3	

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CONVERTER ASSEMBLY

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CONVERTER ASSEMBLY



THIRD STAGE OF ASSEMBLY
1:1

THIRD STAGE OF ASSEMBLY

1. MOUNT THE BOX (ITEM 47) THAT HOUSES THE CONTROL BOARD (ITEM 50) TO THE CONVERTER ASSEMBLY.
2. WHEN FASTENING THE SR CONTROL BOARD TO THE BOX, TIGHTEN THE #4 SCREWS INTO THE SR CONTROL BOARD'S CONNECTORS BEFORE TIGHTENING THE 11 M4 SCREWS THROUGH THE PCB.
3. ON THE BUS BAR (ITEM 2) THERE ARE 6 WIRES MARKED MID, (-) AND (+) IN THE DIAGRAM, TAKE ONE (-) AND ONE (+) WIRE TO BE RUN TO THE CONTROL BOARD AND PUT BLACK SHRINK TUBING OVER THE PAIR. CUT THESE WIRES TO THE APPROPRIATE LENGTH, LABEL THEM ACCORDING TO THE POINT TO POINT WIRING CHART, AND COVER THE LABELS WITH SHRINK TUBING (ITEM 43) BEFORE CRIMPING ON THE LUG TERMINALS. TIE WRAP THE (+) & (-) WIRES THAT GO TO THE CONTROL CARD FROM THE BUS. CONNECT THE WIRES TO THE SR CONTROL BOARD AND THE RESISTORS ACCORDING TO THE WIRING CHART. ROUTE WIRES GOING TO THE TWO RESISTORS BETWEEN THE RESISTORS AND THE 1- IGBT. USE LOCKTITE 272 ON THE RESISTOR TERMINALS.

POINT TO POINT WIRING CHART

FROM	TO	ITEM NO.	LABEL
BUS BAR - MID	R1-1	ITEM 41	MID
BUS BAR - MID	R2-1	ITEM 41	MID
BUS BAR - 1-1	R1-2	ITEM 41	1-1
BUS BAR - 1-1	SR CONTROL BOARD J18 1-1	ITEM 40	1-1
BUS BAR - 1-1	R2-2	ITEM 41	1-1
BUS BAR - 1-1	SR CONTROL BOARD J18 1-1	ITEM 40	1-1
GATE DRIVER 1	SR CONTROL BOARD J4	ITEM 34	J4
GATE DRIVER 2	SR CONTROL BOARD J5	ITEM 34	J5
GATE DRIVER 3	SR CONTROL BOARD J6	ITEM 34	J6
1- CT	SR CONTROL BOARD J18	ITEM 46	J18 11-1
1+ CT	SR CONTROL BOARD J19	ITEM 46	J19 11+1
2- CT	SR CONTROL BOARD J20	ITEM 46	J20 12-1
2+ CT	SR CONTROL BOARD J21	ITEM 46	J21 12+1
3- CT	SR CONTROL BOARD J22	ITEM 46	J22 13-1
3+ CT	SR CONTROL BOARD J23	ITEM 46	J23 13+1
CHOPPER CT	SR CONTROL BOARD J24	ITEM 46	J24 CHOP

CONVERTER ASSEMBLY BRIDGEABLE	SIZE E	DO NOT SCALE	DWG NO. 4279796	REV 04
drawn Hrdlicz 1-25-13	SCALE 1/2	WEIGHT 107 lbm	SHEET 3 OF 3	

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CONVERTER ASSEMBLY

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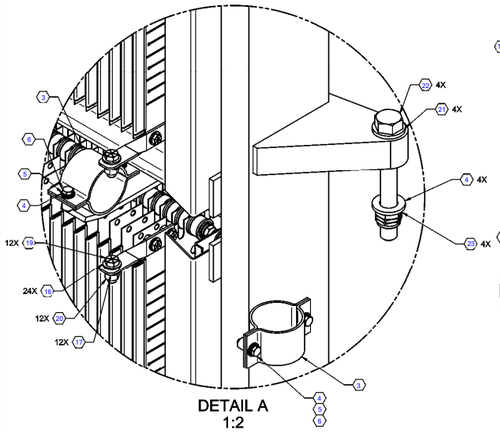
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4279796		CONVERTER ASSEMBLY, BRIDGEABLE		
1	R4278384	1	· HOUSING STRUCTURE, CONVERTER		
2	R4269431	3	· IGBT, 900A1200A LOW SIDE CHOPPER		
3	R4269432	3	· IGBT, 900A1200A HI SIDE CHOPPER		
4	R4274285	1	· IGBT, 900A1200A HALF BRIDGE		
5	R4279831	1	· PRIMEPACK GATE DRIVER 3 IGBT		
6	R4279832	1	· PRIMEPACK GATE DRIVER 4 IGBT		
7	R4258683	10	· CAPACITOR, 6000uF WITH STUD		
8	R4259147	2	· RESISTOR, POWER SERIES HPS 150		
9	R4258686	7	· TRANSDUCER, CURRENT - HAT 600-S		
10	R4272146	1	· BUS BAR ASSEMBLY		
11	R4259289	1	· BOX, CONVERTER PANEL - PCB MOUNT		
12	R4279833	1	· CONTROL BOARD, INFINITY		
13	R4272152	1	· STANDOFF, BUS BAR PHENOLIC		
14	R4259222	1	· STANDOFF, BUS BAR PHENOLIC		
15	R4274297	1	· STANDOFF, IGBT BUS BAR		
16	R4272646	2	· STANDOFF, 8MM HEX		
17	R4259215	1	· SPACER BLOCK, BUS BAR		
18	N.P.N.		· NOT USED		
19	R4279799	7	· BUS BAR, IGBT OUTPUT W/INSERT		
20	R4272151	1	· BUS BAR, DC TOP		
21	R4272150	1	· BUS BAR, DC BOTTOM		
22	R4259191	1	· GREASE, THERMAL		
23	N.P.N.		· NOT USED		
24	N.P.N.		· NOT USED		
25	R4275668	21	· CAPSCREW, 4MM -.70 x 12MM - SOCKET HEAD		
26	R4259176	72	· CAPSCREW, 5MM -.80 x 12MM		
27	N.P.N.		· NOT USED		
28	R4041223	4	· INSULATOR, CENTER POST		
29	R4259282	4	· BOLT, 4MM X 6MM		
30	R4259182	22	· BOLT, 5MM - .80 X 12MM - S.S.		
31	R4264463	14	· BOLT, 8MM -1.25 X 16MM		
32	R4259175	14	· BOLT, 8MM -1.25 X 20MM		
33	R4105638	2	· BOLT, 1/4"-20 X 5/8" - S.S.		
34	R4105641	4	· BOLT, 1/4"-20 X 1" - S.S.		
35	R4265104	2	· BOLT, 1/4"-20 X 1-1/2" - S.S.		
36	R4264497	60	· SCREW, 4 MM X .70MM		
37	R4259295	13	· SCREW, 4MM -.70 x 16MM		
38	R4259297	8	· SCREW, #4 -24 x 3/8"		
39	R4016009	4	· SCREW, 1/4"-20 X 3/4"		
40	R4012935	7	· NUT, 1/4"-20		
41	R0213584	15	· LOCKWASHER, 1/4"		
42	R4259177	28	· LOCKWASHER, 8MM - S.S.		
43	R4259178	98	· LOCKWASHER, 4MM - S.S.		
44	R4259193	96	· LOCKWASHER, 5MM - S.S.		
45	R4010923	8	· FLATWASHER, 1/4"		
46	R4264464	38	· FLATWASHER, M4		
47	R4259338	6	· FLATWASHER, 5MM -S.S.		
48	R4018725	5	· CABLE TIE, 4" - BENT TIP/BLACK		
49	R4018726	5	· CABLE TIE		
50	R4018727	7	· CABLE TIE		
51	R4019411	2	· WIRE TERMINAL, #16-14 AWG		
52	R4019412	4	· WIRE TERMINAL, RT 22 16 #8 INS.		
53	R4001297	1	· TUBING, HEAT SHRINK, BLACK - 1/8"		
54	R4170160	1	· TUBING, HEAT SHRINK, CLEAR - 1/8"		
55	R4279834	1	· ADHESIVE, LOCTITE 263		
56	R4279837	2	· HARNESS, RIBBON - 11"		
57	R4279840	1	· CABLE ASSEMBLY, LOW SIDE CURRENT TRANSDUCER		

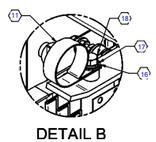
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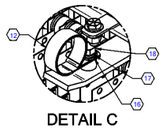
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
58	R4279841	1	· CABLE ASSEMBLY, HIGH SIDE CURRENT TRANSDUCER		
			DRAWING, CONVERTER ASSEMBLY (R427979604)		

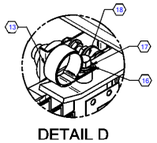
Komatsu
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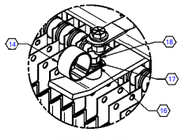
BRAKING GRID ASSEMBLY

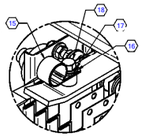


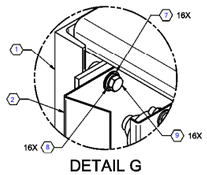


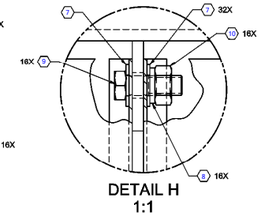


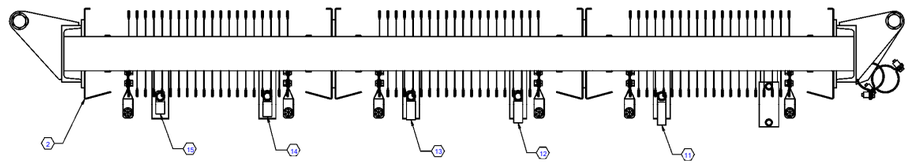


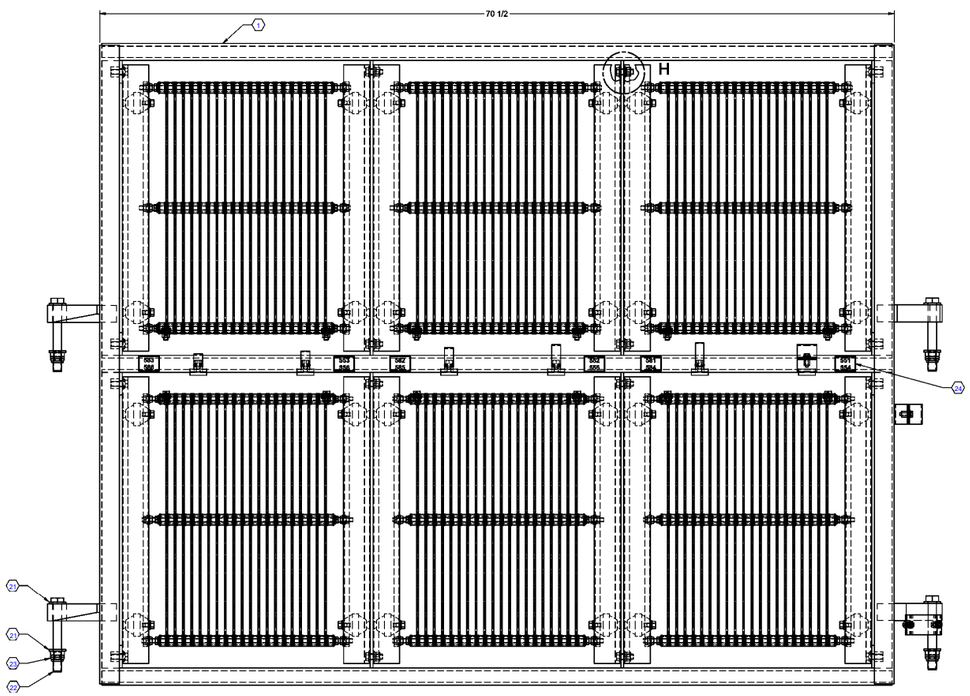


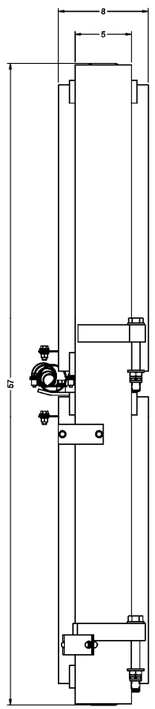


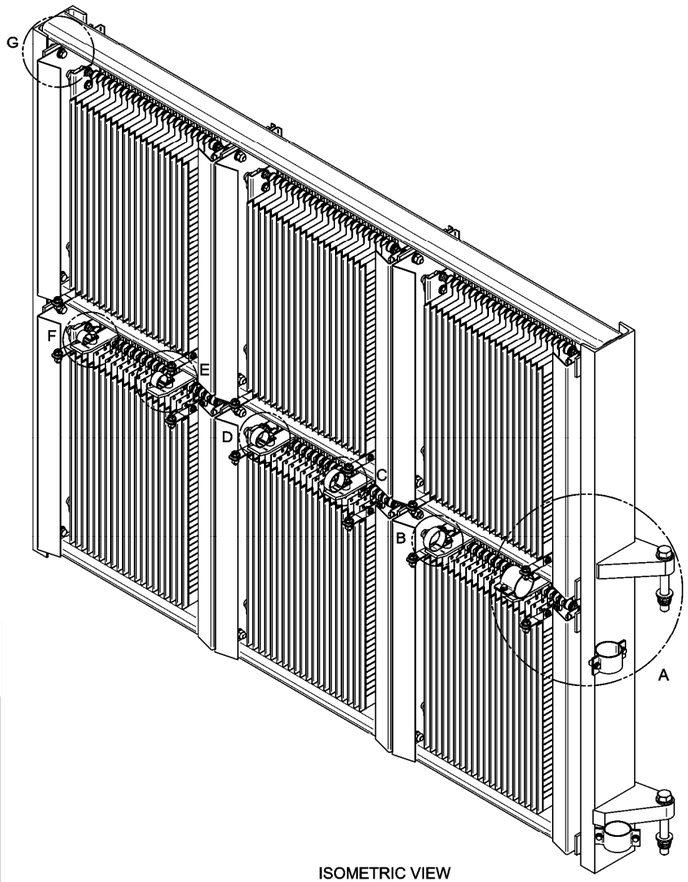












ISOMETRIC VIEW
1:4

ITEM	PART NO.	QTY	DESCRIPTION
24	4270055	1	CODE SHEET BRAKE RESISTOR ASSY
23	4016018	4	LOCK NUT NYLON INSERT
22	0026784	4	BOLT HX 3/4 - 10UNC-2A X 8.00
21	4016046	8	WASHER FLAT .812 1.469 .160
20	0612921	12	NUT HX 0.375 NC G8 PL
19	0610971	12	BOLT HX .375 1.00 NC G8 FT
18	0624788	5	BOLT HX .375 .500 NC G8 FT
17	0753123	17	WASHER LOCK SPR .375 .68 .09
16	0808221	29	WASHER FLAT .375 .81 .08
15	0986143	1	CLAMP CABLE INSL 1.00 .406
14	0986144	1	CLAMP CABLE INSL 1.25 .406
13	0986145	1	CLAMP CABLE INSL 1.50 .406
12	0986146	1	CLAMP CABLE INSL 1.75 .406
11	4014475	1	CABLE CLAMP INSL 2.00 .406
10	0824367	16	NUT HX .438 NC G8
9	0080594	32	BOLT HX .438 1.250 NC G8 FT
8	4010908	32	WASHER LOCK .438 .78 .109 SPR
7	4010924	48	WASHER FLAT .438 .92 .08
6	0614157	6	BOLT HX .250 1.000 NC G8
5	0213684	6	WASHER LOCK SPR .25 .49 .06
4	4010923	6	WASHER FLAT .250 .63 .08
3	0803324	3	CLAMP HALF 2-1/4 O.D.
2	4268577	6	ASSEMBLY BRAKE RESISTOR 2.2 OHM
1	4270050	1	STR BRAKE RESISTOR MOUNT L1350

NOTE:
ALL DIMENSIONS ARE FOR REFERENCE ONLY

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°; FRACTIONS ±1/16; XX DECIMAL ±.03; XXX DECIMAL ±.010
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: L1350

		DATE
DWN		
CHK		
ENGR		
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSEMBLY
BRAKE RESISTOR MOUNT
L1350

SIZE E | DO NOT SCALE | DRAWING NO. 4270054 | REV 01

SCALE 1/4 | WEIGHT 644.4 lbm | SHEET 1 OF 1

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BRAKING GRID ASSEMBLY

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BRAKING GRID ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4270054		BRAKING GRID ASSEMBLY		4/11/16
1	R4270050	1	· MOUNTING STRUCTURE, BRAKE RESISTOR		
2	R4268577	6	· RESISTOR ASSEMBLY, BRAKE		
	R4281714	24	· · INSULATOR, CENTER POST		4/11/16
3	R0803324	3	· CLAMP HALF, 2-1/4" O.D.		
4	R4010923	6	· FLATWASHER, 1/4"		
5	R0213584	6	· LOCKWASHER, 1/4"		
6	R0814157	6	· BOLT, 1/4"-20 X 1"		
7	R4010924	48	· FLATWASHER, 7/16"		
8	R4010908	32	· LOCKWASHER, 7/16"		
9	R0080594	32	· BOLT, 7/16"-14 X 1-1/4"		
10	R0824367	16	· NUT, 7/16"-14		
11	R4014475	1	· CLAMP, CABLE - INSULATED, 2"		
12	R0986146	1	· CLAMP, CABLE - INSULATED, 1-3/4"		
13	R0986145	1	· CLAMP, CABLE - INSULATED, 1-1/2"		
14	R0986144	1	· CLAMP, CABLE - INSULATED, 1-1/4"		
15	R0986143	1	· CLAMP, CABLE - INSULATED, 1"		
16	R0808221	29	· FLATWASHER, 3/8"		
17	R0753123	17	· LOCKWASHER, 3/8"		
18	R0824766	5	· BOLT, 3/8"-16 X 1/2"		
19	R0810971	12	· BOLT, 3/8"-16 X 1"		
20	R0812921	12	· NUT, 3/8"-16		
21	R4016046	8	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		
22	R0025764	4	· BOLT, 3/4"-10 X 6"		
23	R4016018	4	· LOCKNUT, 3/4"-10 - NYLON		
24	R4270055	1	· CODE SHEET		
		REF	DRAWING, BRAKING GRID ASSEMBLY (R427005401)		

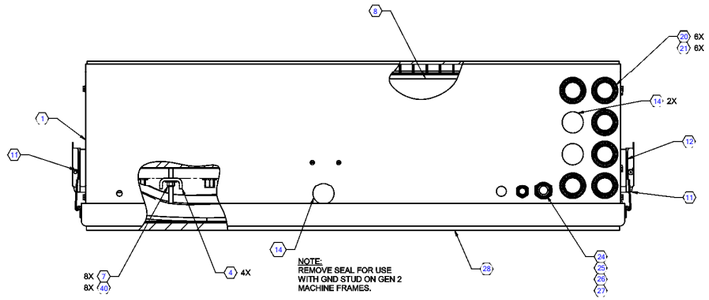
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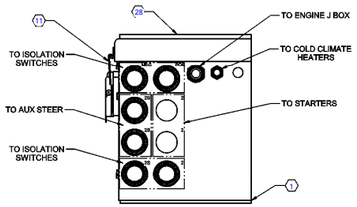
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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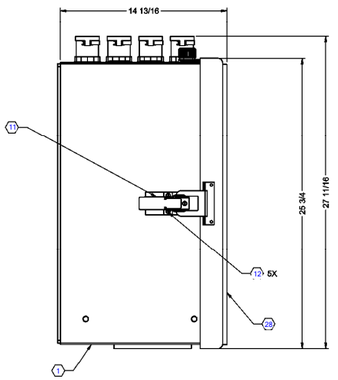
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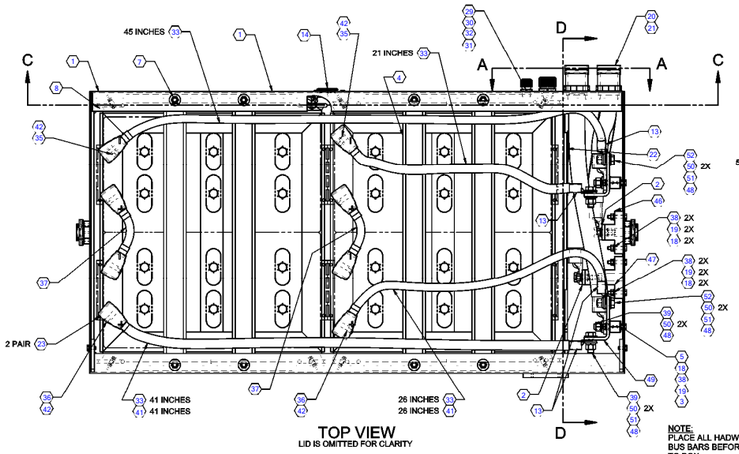
BATTERY BOX ASSEMBLY



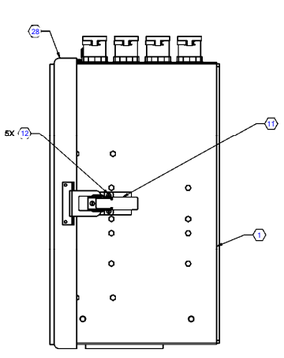


SECTION A-A
CONDUIT DISTRIBUTION DETAIL
VIEW ROTATED 180° CW

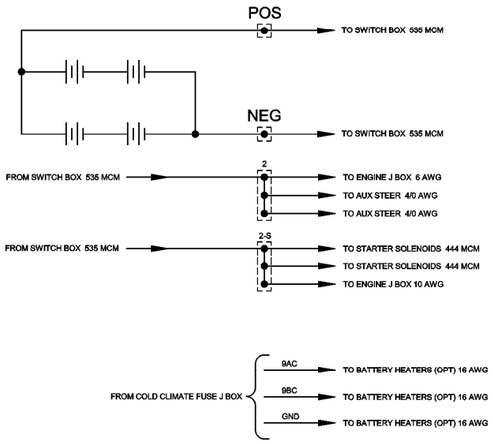




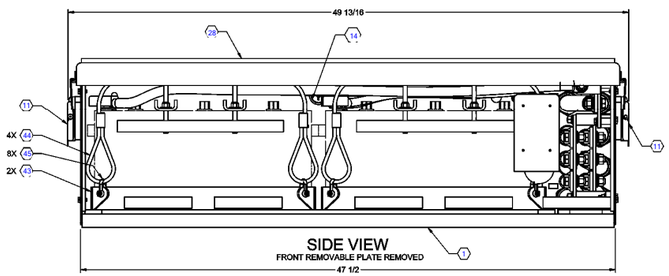
TOP VIEW
LID IS OMITTED FOR CLARITY



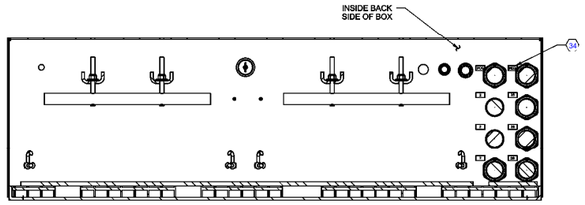
NOTE:
PLACE ALL HADWARE ON BUS BARS BEFORE SECURING TO BOX.



SCHEMATIC



SIDE VIEW
FRONT REMOVABLE PLATE REMOVED



SECTION C-C

NOTE:

1. BATTERIES (P/N 6985709) ARE SHOWN FOR ORIENTATION AND REFERENCE.
2. CUT THE 4/0 CABLE INTO 4 PIECES WITH THE LENGTHS AS FOLLOWS:
   - 45 INCHES
   - 41 INCHES
   - 26 INCHES
   - 21 INCHES
3. INSTALL AND SHRINK IN PLACE THE RED HEAT SHRINK TUBING OVER THE FULL LENGTH OF THE 41 INCH AND 26 INCH PIECES OF THE 4/0 CABLE.
4. REMOVE THE INSULATION AT ONE END OF EACH PIECE OF THE 4/0 CABLE IN PREPARATION FOR INSTALLATION OF THE BATTERY TERMINALS.
5. USING T&B CRIMPER TBM8-750M-1, CRIMP A POSITIVE BATTERY TERMINAL ONTO ONE END OF THE 4/0 CABLES COVERED WITH RED HEAT SHRINK TUBING.
6. USING T&B CRIMPER TBM8-750M-1, CRIMP A NEGATIVE BATTERY TERMINAL ONTO ONE END OF THE 45 INCH AND 21 INCH 4/0 CABLES.
7. CUT THE BARREL OF EACH BATTERY TERMINAL CAP LENGTHWISE ON THE BOTTOM TO ALLOW THEM TO SLIDE OVER THE 4/0 CABLE AND CONDUIT. SLIDE THE BATTERY CAPS OVER THE BATTERY TERMINALS, RED FOR THE POSITIVE TERMINALS AND BLACK FOR THE NEGATIVE TERMINALS.
8. INSTALL A 2 INCH LONG PIECE OF CLEAR HEAT SHRINK TUBING OVER EACH BATTERY TERMINAL CAP BARREL AND SHRINK IN PLACE.
9. CRIMP WIRE TERMINALS ONTO THE ENDS OF THE 4/0 CABLES.
10. INSTALL THE 4/0 CABLES ON THE INSULATORS AS SHOWN.
11. INSTALL A 46 INCH PIECE OF RED HEAT SHRINK TUBING OVER THE POSITIVE 535 MCM CONDUCTOR. STARTING AT THE END THAT CONNECTS TO THE POS BUS BAR.
12. WIRE TERMINALS AT THE BUS BARS ARE SHOWN FOR REFERENCE ONLY.

ITEM	PART NO.	QTY	DESCRIPTION
52	4009752	2	BOLT HX .500 1.250 NC G8 FT
51	0901181	13	WASHER LOCK SPR .500 .873 .125
50	0819991	24	WASHER FLAT .531 1.062 .121
49	4292812	2	BUSS BAR, ANGLED
48	0808489	12	NUT HX .500 NC
47	4292792	2	INSULATOR 3-3/8 LG
46	4292791	2	INSULATOR 1-5/8 LG
45	4286196	8	SHACKLE SCREW PIN 1/4
44	4286101	4	ASSY CABLE BATTERY CRADLE
43	4286100	2	STR BATTERY CRADLE
42	4170167	0.75	HEAT SHRK CLR 1.500 2:1
41	4223322	10.00	HEAT SHRK RED 1.500 2:1
40	0233042	8	WASHER FLAT .375 1.00 .10
39	4009753	10	BOLT HX .500 1.500 NC G8
38	4010923	12	WASHER FLAT .250 .63 .065
37	4270134	2	JUMPER BATTERY TO BATTERY
36	4140758	2	BATTERY TERM POS TOP POST 4/0 AWG
35	4140759	2	BATTERY TERM NEG TOP POST 4/0 AWG
34	4270135	1	BATTERY BOX LABELS
33	4030841	11.25	CABLE 4/0 AWG 1C DEL/DLO 2000V
32	4217709	1	SEALING RING SRN11
31	4217706	1	CAP NUT CN11
30	4217714	1	NUT LOCK NYL .LNP-M20
29	4217703	1	ADAPTER BODY AB16
28	4270156	1	LID ASSEMBLY
27	4245614	1	CAP NUT CN21
26	4217711	1	SEALING RING SRN21
25	4217715	1	NUT LOCK NYL .LNP-M25
24	4217705	1	ADAPTER BODY AB25-M25
23	4235607	2	BATTERY TERMINAL CAPS
22	4270147	1	MATTING, BATTERY BOX
21	4270141	6	NUT, HEX LOCK PG36
20	4270140	6	CONNECTOR, STRAIGHT PG36
19	0213584	12	WASHER LOCK SPR .25 .49 .06
18	4012935	12	NUT HEX .250 NC G8 PL
17	0753123	6	WASHER LOCK SPR .375 .68 .09
16	0829683	2	BOLT HX .375 1.750 NC G8
15	4012948	4	NUT HEX JAM STL ZP 3/8-16UNC-2B
14	4278918	3	HOLE SEAL 1.00 CONDUIT SS
13	4019678	4	TERM WIRE RT 4/0AN - 250MCM .500 NON
12	0727313	10	MSCR FH #10 .375 NF
11	0581688	2	CATCH
10	0808221	4	WASHER FLAT .375 .81 .08
9	0812921	4	NUT HX .375 NC G8
8	4270106	1	MATTING, BATTERY BOX BOTTOM
7	4070091	8	NUT LOCK NYL, INS .375 NC SS
6	4009641	2	BOLT HX .375 2.000 NC G8
5	4041223	4	CTR POST INSULATOR 1/4-20 NC
4	4274437	4	CHANNEL, HOLD DOWN
3	0812278	4	BOLT HEX .250 .63 NC G8 FT
2	4292796	2	BUSS BAR, STRAIGHT
1	4292798	1	STRUCTURE, BATTERY BOX V2

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INTERPRET DIM & TOL PER LETOURNEAU SPEC. 9600.00

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
-

		DATE
DWN		2-13-18
CHK		2-13-18
ENGR		2-13-18
PROD ENGR		2-13-18
PROJ APPROVAL		
MATL		

KOMATSU

ASSEMBLY, BATTERY BOX L13/18/23 V2

SIZE E | DO NOT SCALE | DWG NO. 4292797 | REV 01

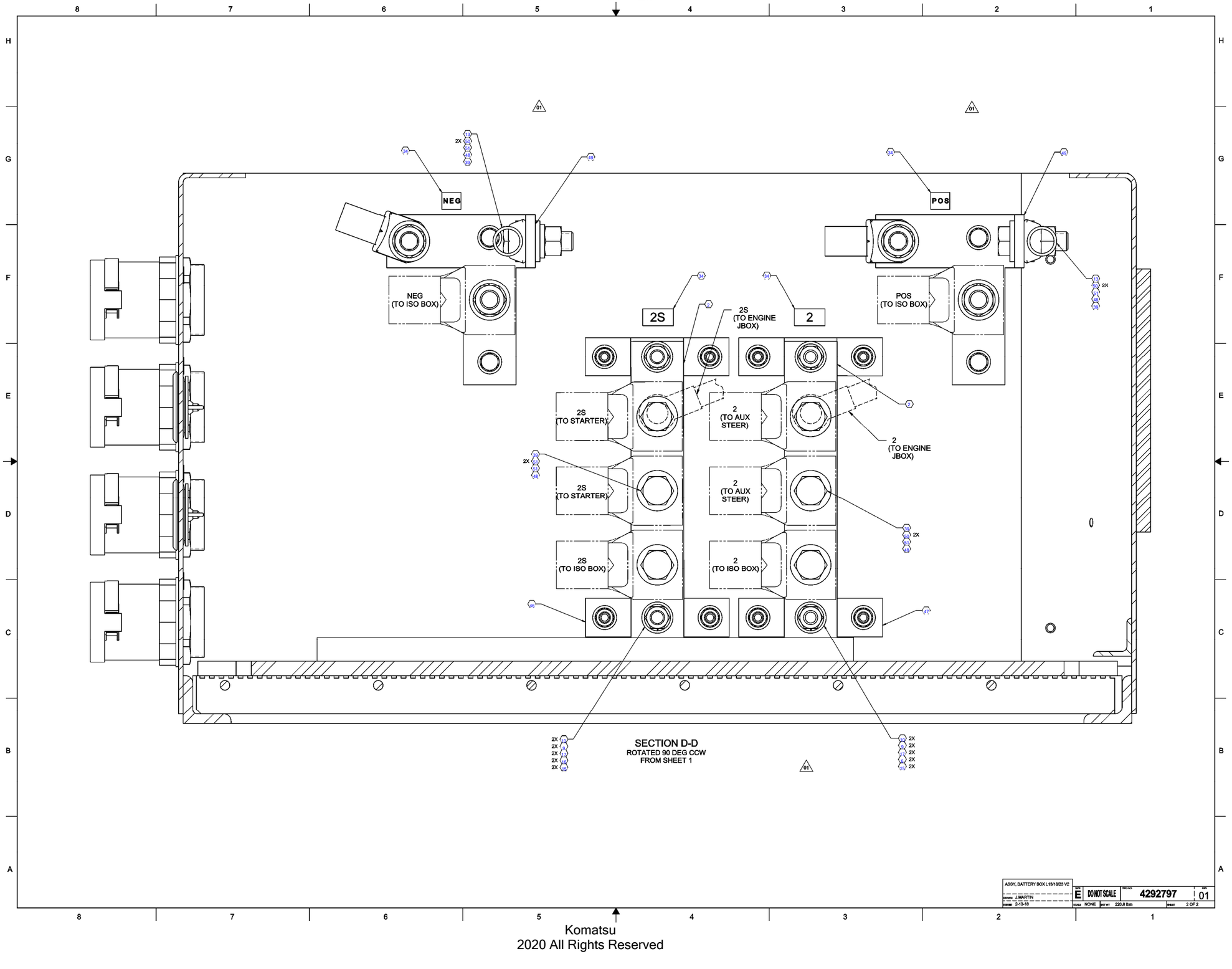
SCALE 1/4 | WT/WT 220.8 lbm | SHEET 1 OF 2

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BATTERY BOX ASSEMBLY

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BATTERY BOX ASSEMBLY



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BATTERY BOX ASSEMBLY

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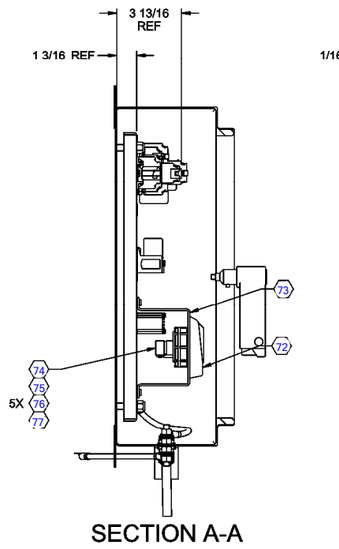
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4292797			BATTERY BOX ASSEMBLY		6/14/19
1	R4292798	1		· BOX STRUCTURE, BATTERY		
2	R4292796	2		· BUSS BAR, STRAIGHT		
3	R0812278	4		· BOLT, 1/4"-20 X 5/8"		
4	R4274437	4		· CHANNEL, BATTERY HOLD DOWN		
5	R4041223	4		· INSULATOR, CENTER POST		
6	R4009641	2		· BOLT, 3/8"-16 X 2"		
7	R4070091	8		· LOCKNUT, 3/8"-16 - S.S., NYLON		
8	R4270106	1		· MAT, RUBBER - 3/8" X 22-1/2" X 50"		
9	R0812921	4		· NUT, 3/8"-16		
10	R0808221	4		· FLATWASHER, 3/8"		
11	R0581688	2		· LATCH ASSEMBLY		
12	R0727313	10		· SCREW, #10 X 3/8"		
13	R4019678	4		· TERMINAL, WIRE - 1/2" HOLE		6/14/19
14	R4278918	3		· SEAL, HOLE - 1"		
15	R4012948	4		· JAMNUT, 3/8"-16		
16	R0829683	2		· BOLT, 3/8"-16 X 1-3/4"		
17	R0753123	8		· LOCKWASHER, 3/8"		
18	R4012935	12		· NUT, 1/4"-20		
19	R0213584	12		· LOCKWASHER, 1/4"		
20	R4270140	6		· CONNECTOR, STRAIGHT PG36		
21	R4270141	6		· LOCKNUT, CONDUIT		
22	R4270147	1		· MAT, RUBBER - 3/8" X 4-7/8" X 24"		
23	R4235607	2		· CAPS, BATTERY TERMINAL		
24	R4217705	1		· ADAPTER BODY		
25	R4217715	1		· LOCKNUT, NYLON - LNP-M25		
26	R4217711	1		· RING, SEALING - SRN21		
27	R4245614	1		· NUT, CAP - CN21		
28	R4270156	1		· COVER ASSEMBLY, BATTERY BOX		
	R4270109	1		· · COVER FRAME STRUCTURE		
	R4268472	1		· · SAFETY-WALK, SLIP RESISTANT - BLACK, 24" X 30' ROLL		
	R4270337	4		· · STRIKER CLIP		
	R0819905	4		· · SCREW, #10-24 X 3/4"		
	R4016013	4		· · LOCKNUT, #10-24 - NYLON		
29	R4217703	1		· ADAPTER BODY		
30	R4217714	1		· LOCKNUT, NYLON - LNP-M20		
31	R4217706	1		· NUT, CAP - CN11		
32	R4217709	1		· RING, SEALING - SRN11		
33	R4030841	12	FT	· CABLE, #4/0 AWG - SINGLE DEL		6/14/19
34	R4270135	1		· LABELS, BATTERY BOX		
35	R4140759	2		· TERMINAL, BATTERY - #4 - NEG.		
36	R4140758	2		· TERMINAL, BATTERY - #4 - POS.		
37	R4270134	2		· JUMPER CABLE, BATTERY TO BATTERY		
38	R4010923	12		· FLATWASHER, 1/4"		
39	R4009753	10		· BOLT, 1/2"-13 X 1-1/2"		
40	R0233042	8		· FLATWASHER, 3/8"		
41	R4223322	10	FT	· HEAT SHRINK, RED - 1-1/2"		
42	R4170167	1	FT	· HEAT SHRINK, CLEAR - 1-1/2"		
43	R4286100	2		· CRADLE STRUCTURE, BATTERY		
44	R4286101	4		· CABLE ASSEMBLY, BATTERY CRADLE		
45	R4286198	8		· SHACKLE		
46	R4292791	2		· INSULATOR, 1-5/8" LONG		
47	R4292792	2		· INSULATOR, 3-3/8" LONG		
48	R0808489	12		· NUT, 1/2"-13		
49	R4292812	2		· BUSS BAR, ANGLED		
50	R0810991	24		· FLATWASHER, 1/2" X 1" X 1/8"		
51	R0801181	13		· LOCKWASHER, 1/2"		

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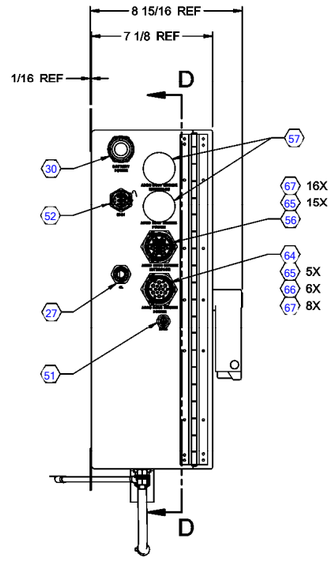
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
52	R4009752	2		· BOLT, 1/2"-13 X 1-1/4"		
	R6985709	REF		BATTERY, 12V WET	4	
		REF		DRAWING, BATTERY BOX ASSEMBLY (R429279701)		6/14/19

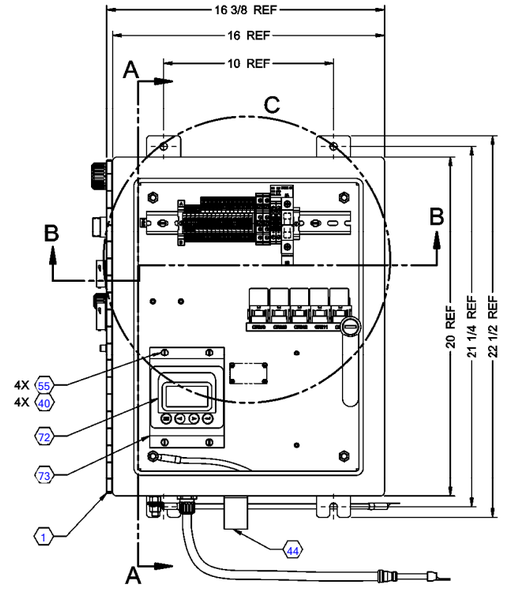
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ENGINE INTERFACE BOX ASSEMBLY

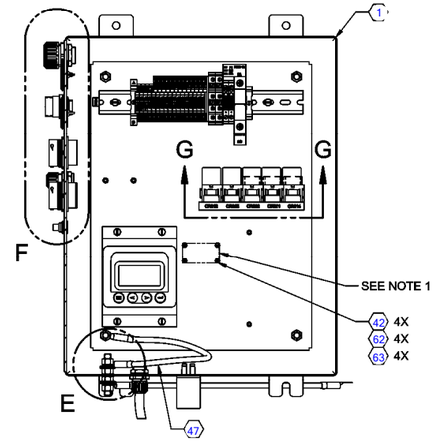


SECTION A-A

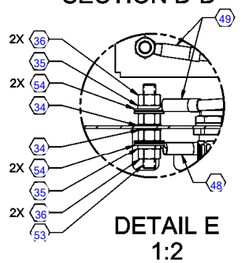




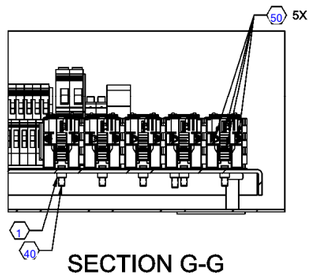
TOP VIEW
LID IS NOT SHOWN FOR CLARITY



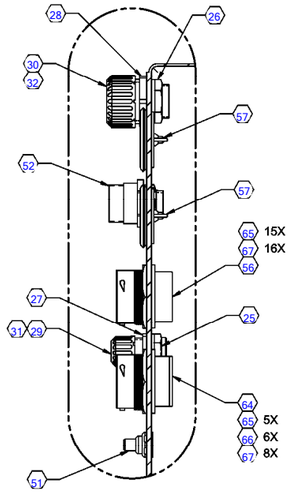
SECTION D-D



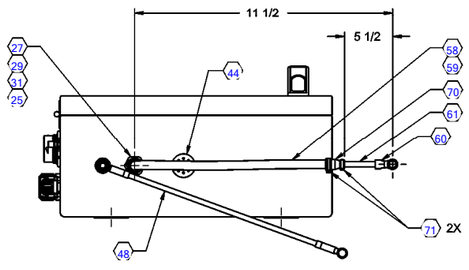
DETAIL E
1:2

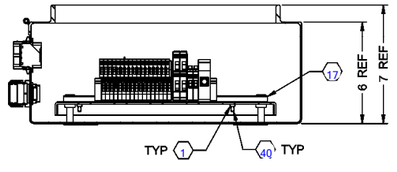


SECTION G-G
1:2



DETAIL F
1:2





SECTION B-B

NOTES:

1. PLUG-IN BOARD (PIG) SUPPLIED WITH THE ENGINE.
2. PLACE ALL UNUSED FERRULES IN PLASTIC BAG. PUT THE BAG INSIDE THE FINISHED BOX ASSEMBLY.
3. ADEC ECU9 ENGINE INTERFACE IS X1.1
4. ADEC ECU9 ENGINE POWER IS X1.2
5. EXTERNAL WIRE CHART USED WHEN ON MACHINE.

ITEM	PART NO.	QTY	DESCRIPTION
80	4274545	2	TERM BLK GRAY PHOENIX 2772077
79	4251788	4	FIXED BRIDGE DIN FBI 10-10
78	4274546	1	TERM BLK COVER PHOENIX 3001394
77	4153882	1	SEALING PLUG
76	4265764	5	SOCKET CONTACT SIZE 20
75	4265763	1	WEDGE W6S DEUTSCH
74	4265762	1	PLUG DTM06-6S DEUTSCH
73	4292854	1	BRACKET, MURPHY BOX
72	4292853	1	MURPHY BOX
71	4018725	2	CABLE TIE 4" BENT TIP/BLK
70	4238815	1	END SLEEVE ESN12
68	4264185	2	BRIDGE FIXED PHOENIX 02 03 26 3
67	4153882	24	SEALING PLUG #12-16 AWG
66	4240037	6	PIN CONTACT, 12-14 GA DEUTSCH
65	4240205	20	CONTACT PIN SIZE 16

ITEM	PART NO.	QTY	DESCRIPTION
64	4289013	1	DEUTSCH RECEPTACLE HD34-24-19
63	0980181	4	LOCK WASHER EXT'L TOOTH #4
62	4289018	4	STDOFF THD M/F 1/4HX #4NC 1.5LG SS
61	4228783	0.50	HEAT SHRINK 1/4 GND INDENT MARKERS
60	4019694	1	WIRE TERMINAL RT #6-W 3/8 □U/INS
59	4232459	4.00	CABLE #10 AWG 1C EXN DLO 2000V
58	4238808	1.50	CONDUIT NYLON NC12
57	4278918	2	HOLE SEAL 1.00 CONDUIT SS
56	4289014	1	DEUTSCH RECEPTACLE HD34-24-31
55	0182634	11	WASHER LOCK EXT .195 .41 .03
54	4229233	4	WASHER FLAT .375 SS
53	4163232	1	ROD THD 3/8-16 UNC X 2-1/2 SS
52	4264983	1	RECP 12 PIN MALE/4M 1/2-14NPT
51	4288938	1	RECEPTACLE CAN MALE-1M
50	4260955	20	FASTON CONNECTOR #14-16 AWG W TANG
49	4019681	2	TERM WIRE RT 8 .375 INS
48	4228927	1	CABLE GROUND #8AWG, 3/8 LUGS
47	4111905	1	CABLE POLYOLEFIN SINGLE #8 AWG
46	4120401	24.00	CABLE #16 AWG EXANE DLO 600 VAC
45	4111903	1.00	CABLE #12 AWG 1C XLP SHP 600V
44	4268634	1	VENT DRAIN
43	4270203	12	FERRULE INSUL 20 AWG .315LG INSERT WHT
42	4245454	4	MSCR PH #4 .500 NC SS
41	4270205	44	FERRULE INSUL 16 AWG .315LG INSERT BLK
40	4012632	11	MSCR PH #10-32 UNF X 5/8 LG
39	4270207	4	FERRULE INSUL 12 AWG .472LG INSERT GRAY
38	4270208	4	FERRULE INSUL 10AWG .472LG INSERT YEL
36	2063953	4	NUT HX 3/8 SS
35	4129671	2	WASHER LOCK SPR 3/8 SS
34	4229234	2	WASHER LOCK EXT .375 SS
33	4046896	1	CONDUIT SEAL RING .500
32	4217711	1	SEALING RING SRN21
31	4238814	2	SEALING RING SRN09
30	4245614	1	CAP NUT CN21
29	4238811	2	CAP NUT CN09
28	4217705	1	ADAPTER BODY AB25-M25
27	4238809	2	ADAPTER BODY AB12-M20
26	4217715	1	NUT LOCK NYL LNP-M25
25	4217714	2	NUT LOCK NYL LNP-M20
24	4260950	5	RELAY 20 A
23	4228656	2	PLATE SEPARATING PHOENIX TS-KK3
22	4289019	1	CODE SHEET, ENG INTF JUNCT BOX MDEC
21	4262059	4.00	CABLE #20 3/TWISTED GXL CAN
20	4274370	1	LABELS FOR BRADY ID PAL LABELER
19	4260949	5	BRACKET MOUNT RELAY SOCKET
18	4265756	2	BRACKET END PHOENIX 08 00 88 6
17	4250959	1	RAIL MOUNT 12.00 LG DIN
16	4270202	3	FERRULE INS 22AWG .315LG PURPLE
15	4289050	1	TERMINAL MARKERS ADEC ECU9 ENG INTFC
14	4266266	18	BRIDGE FIXED PHOENIX FB10-6
13	4264181	3	TERM BLK DIODE PHOENIX
12	4264182	2	TERM BLK FUSE PHOENIX 30 01 93 8
11	4264184	1	TERM BLK COVER PHOENIX 27 71 02 3
10	4264180	13	TERM BLK GRAY PHOENIX 27 71 14 6
8	4268580	1	ASSY TERM BLK / RESISTOR 121 OHM
7	4265746	1	FUSE-25A 32V BLADE TYPE
6	4265743	1	FUSE-10A 32V BLADE TYPE
4	4259992	1	FUSE MIDGET 6 AMPS 600V
2	4247569	1	FUSE HOLDER DISCONNECT
1	4275675	1	JCTN BOX W/PANEL 20 16 6 SS

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° / FRACTIONS ±1/16 / .XX DECIMAL ±.03 / .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO 4275677

		DATE
DWN	J.MARTIN	6-12-17
CHK	KD	6-12-17
ENGR	JS	6-12-17
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSEMBLY ADEC ECU9 ENG INTFC JUNCTION BOX

SIZE D | DO NOT SCALE | DWG NO. 4289051 | REV 06

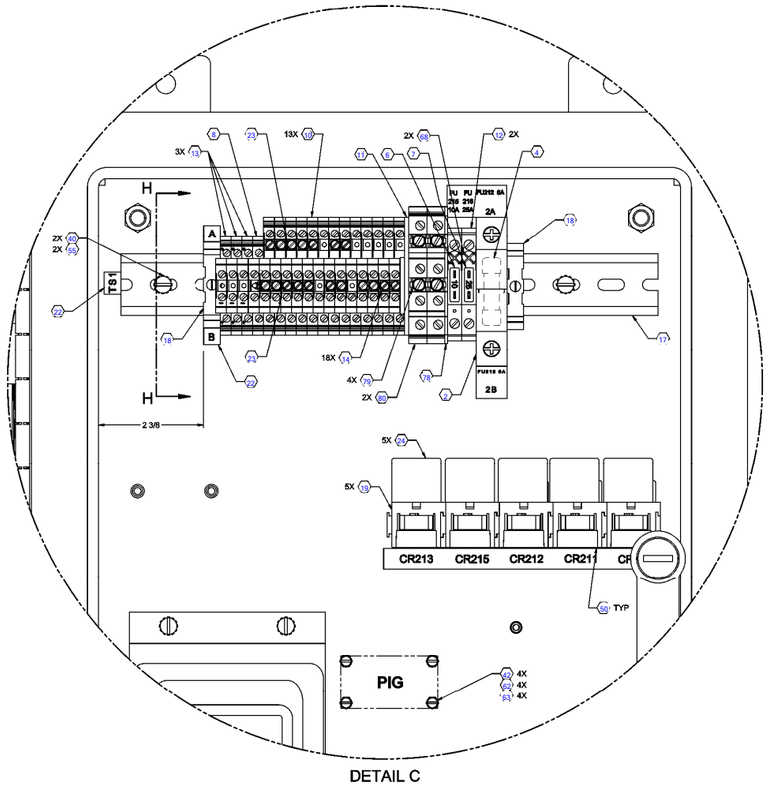
SCALE 1/4 | EST WT 67.6 lbm | SHEET 1 OF 3

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ENGINE INTERFACE BOX ASSEMBLY

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ENGINE INTERFACE BOX ASSEMBLY



DETAIL C

INTERNAL WIRE CHART				
GAUGE	COLOR	WIRE CODE	SOURCE	TARGET
16 AWG		2A	TS1:201:a	FU_212:a
16 AWG		2B	FU_212:b	CR_212:87
12 AWG		2C	TS1:202:a	FU_216:a
16 AWG		2D	FU_215:b	CR_211:87
16 AWG		2E	CR_213:30	CR_215:87
12 AWG		2G	FU_216:b	TS1:203:b
16 AWG		4L1	TS1:101:b	CR_214:87
16 AWG		D1	TS1:219:b	CR_215:86
16 AWG		D2	TS1:209:a	TS1:119:a
16 AWG		D3	TS1:217:b	CR_213:86
16 AWG		D4	TS1:218:b	CR_214:86
16 AWG		D5	TS1:118:b	CR_214:85
16 AWG	ORG	EIC1-01	CR_212:86	EIC1:1
16 AWG	BLU	EIC1-02	TS1:107:a	EIC1:2
16 AWG	RED/BLK	EIC1-04	TS1:219:a	EIC1:4
16 AWG	GRN/BLK	EIC1-05	CR_211:86	EIC1:5
16 AWG	GRN	EIC1-09	TS1:207:a	EIC1:9
16 AWG	RED	EIC1-10	TS1:102:a	EIC1:10
16 AWG	WHT	EIC1-11	TS1:217:a	EIC1:11
16 AWG	BLK	EIC1-12	TS1:108:b	EIC1:12
22 AWG	SLD	EIC3-01	TS1:210:a	EIC3:1
22 AWG	WHT	EIC3-04	TS1:214:b	EIC3:4
22 AWG	BLU	EIC3-05	TS1:114:b	EIC3:5
10 AWG		GND	GND	TS1:111:b
16 AWG		GND-01	TS1:108:a	TS1:208:a
16 AWG		GND-02	TS1:119:b	CR_215:85
16 AWG		GND-03	TS1:109:b	CR_211:85
16 AWG		GND-04	TS1:209:b	CR_212:85
16 AWG		GND-05	TS1:117:b	CR_213:85
16 AWG		GND-06	TS1:117:a	TS1:109:a
10 AWG		GND-07	TS1:113:a	TS1:213:a
16 AWG		MURP-01	TS1:205:b	MURP:A:1
22 AWG	YEL	MURP-02	TS1:215:b	MURP:A:2
22 AWG	GRN	MURP-03	TS1:115:b	MURP:A:3
22 AWG	BLK	MURP-04	TS1:113:b	MURP:A:4
16 AWG		MURP-06	TS1:213:b	MURP:A:6
20 AWG	YEL	PIG-11	TS1:116:b	PIG:11
20 AWG	GRN	PIG-12	TS1:216:b	PIG:12
20 AWG	BLK	PIG-13	TS1:110:b	PIG:13
20 AWG	YEL	X1.1-01	TS1:116:a	X1.1:1
20 AWG	GRN	X1.1-02	TS1:216:a	X1.1:2
20 AWG	BLK	X1.1-03	TS1:110:a	X1.1:3
20 AWG	YEL	X1.1-04	TS1:214:a	X1.1:4
20 AWG	GRN	X1.1-05	TS1:114:a	X1.1:5
20 AWG	BLK	X1.1-06	TS1:210:b	X1.1:6
16 AWG		X1.1-07	CR_211:30	X1.1:7
16 AWG		X1.1-08	TS1:111:a	X1.1:8
16 AWG		X1.1-09	TS1:207:b	X1.1:9
16 AWG		X1.1-10	TS1:107:b	X1.1:10
16 AWG		X1.1-13	TS1:208:b	X1.1:13
16 AWG		X1.1-19	CR_212:30	X1.1:19
16 AWG		X1.1-20	TS1:211:a	X1.1:20
16 AWG		X1.1-21	TS1:218:a	X1.1:21
16 AWG		X1.1-22	TS1:118:a	X1.1:22
16 AWG		X1.2-01	TS1:205:a	X1.2:1
16 AWG		X1.2-02	TS1:211:b	X1.2:2
16 AWG		X1.2-03	TS1:206:a	X1.2:3
16 AWG		X1.2-04	TS1:112:a	X1.2:4
16 AWG		X1.2-06	CR_215:30	X1.2:6
16 AWG		X1.2-07	CR_213:87	X1.2:7
16 AWG		X1.2-08	TS1:203:a	X1.2:8
16 AWG		X1.2-10	TS1:204:a	X1.2:10
16 AWG		X1.2-12	TS1:204:b	X1.2:12
16 AWG		X1.2-14	TS1:112:b	X1.2:14
16 AWG		X1.2-16	TS1:212:a	X1.2:16
16 AWG		X1.2-18	TS1:212:b	X1.2:18

JUMPER CHART
TS1:101
TS1:102
TS1:201
TS1:202
TS1:203
TS1:204
TS1:205
TS1:206
TS1:108
TS1:109
TS1:208
TS1:209
TS1:111
TS1:112
TS1:113
TS1:211
TS1:212
TS1:213
TS1:114
TS1:115
TS1:214
TS1:215

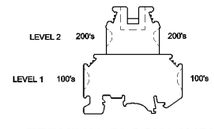
SEPARATING PLATE BETWEEN
TS1:113 and TS1:114
TS1:213 and TS1:214

EXTERNAL WIRE CHART				
GAUGE	COLOR	WIRE CODE	SOURCE	TARGET
10 AWG		2	2	TS1:201:b
10 AWG		2B	2B	TS1:101:a
16 AWG		4L	4L	CR_214:30

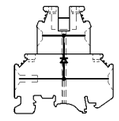
LEGEND

CAB1-03
CONNECTOR
PIN #

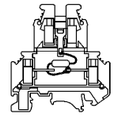
TS1:201:a
TEMINAL STRIP
TS1: TERMINAL STRIP 1
TERMINAL BLOCK #
100's: LOWER LEVEL TERMINAL BLOCK
200's: UPPER LEVEL TERMINAL BLOCK
SIDE
CONNECTION



TERMINAL BLOCK LAYOUT



426-4181 (DIODE)



426-8580 (RESISTOR 121 OHM)

NOTE:
SEE TERMINAL BLOCK
TORQUE SPECIFICATIONS CHART
PRIOR TO INSTALLING WIRES
IN THE TERMINAL BLOCKS.

TORQUE SPECIFICATIONS CHART					
ITEM NO.	LTI P/N	MIN TORQUE (lb in)	MAX TORQUE (lb in)	MIN TORQUE (Nm)	MAX TORQUE (Nm)
	4264180	5.3	7.1	0.6	0.8
	4264181	5.3	7.1	0.6	0.8
	4264183	5.3	7.1	0.6	0.8
	4264182	13.3	14.2	1.5	1.6
	4274545	13.3	15.9	1.5	1.6

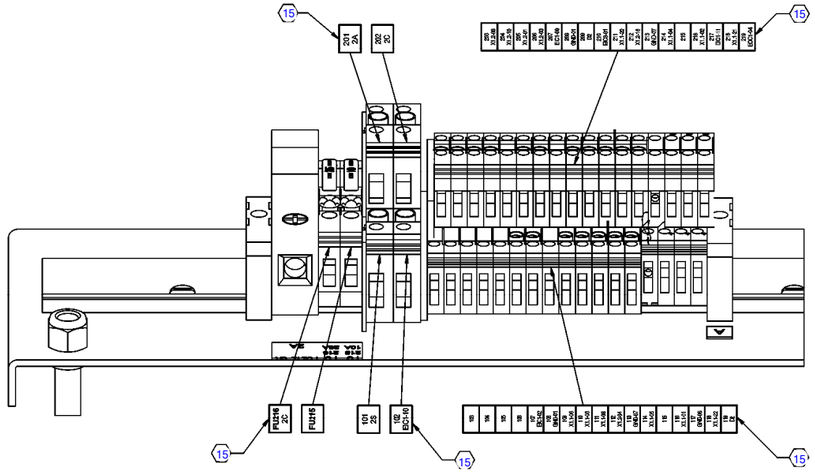
ASSY ADEC ECU8 ENG INTFC JUNCTION BOX
DRAWN J.MARTIN
ISSUED 5-12-17
SIZE E
DO NOT SCALE
DWG NO. 4289051
REV 06
SCALE -
WT wt 67.0 lbm
SHEET 2 OF 3

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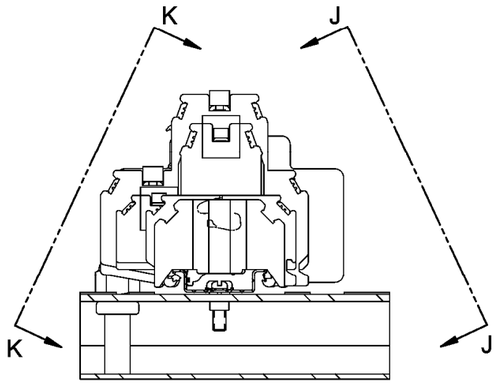
ENGINE INTERFACE BOX ASSEMBLY

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ENGINE INTERFACE BOX ASSEMBLY



SECTION K-K
ROTATED 25 DEG CCW



SECTION H-H
ROTATED 90 DEG CCW
FROM DETAIL C, SHEET 2

SECTION J-J
ROTATED 25 DEG CW

ASSEMBLY, ADEC ENGINE INTERFACE JUNCTION BOX		SIZE D	DO NOT SCALE	DWG NO. 4289051	REV 06
DRAWN J.MARTIN					
ISSUED 6-12-17		SCALE 1/1	EST WT -	SHEET 3 OF 3	

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ENGINE INTERFACE BOX ASSEMBLY

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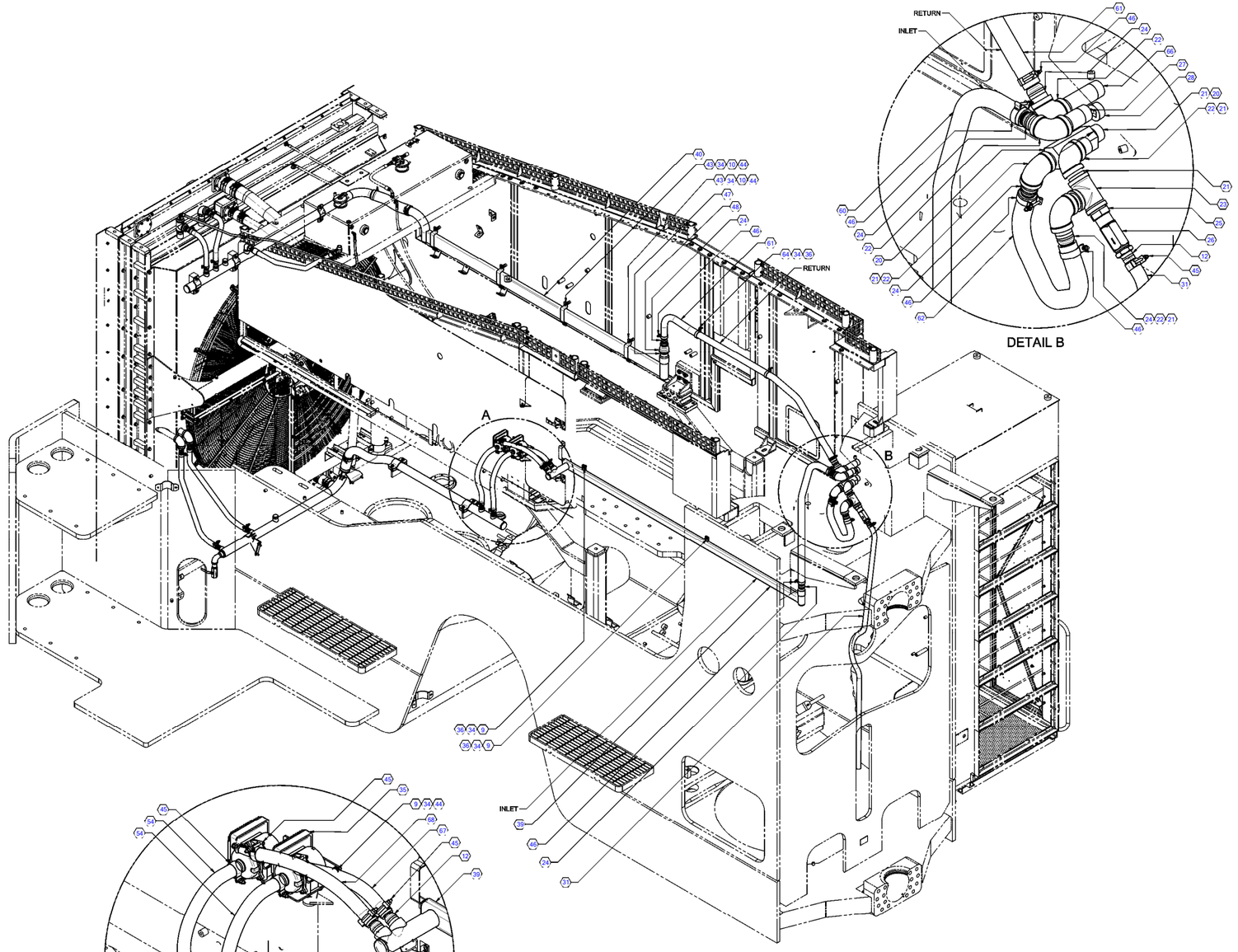
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4289051			ENGINE INTERFACE BOX ASSEMBLY - ADEC		
1	R4275675	1		· JUNCTION BOX WITH PANEL		
	R4286150	1		· · HANDLE, JUNCTION BOX		
2	R4247569	1		· FUSE HOLDER, DISCONNECT		
3	N.P.N.			· NOT USED		
4	R4259992	1		· FUSE, 6A 600V - MIDGET		
5	N.P.N.			· NOT USED		
6	R4265743	1		· FUSE, 10A 32V - BLADE TYPE RED		
7	R4265746	1		· FUSE, 25A 32V - BLADE TYPE CLEAR		
8	R4268580	1		· TERMINAL BLOCK ASSEMBLY, RESISTOR 121 OHM		
	R4072558	1		· · RESISTOR - 121 OHM, .25W		
9	N.P.N.			· NOT USED		
10	R4264180	1		· TERMINAL BLOCK, GRAY		
11	R4264184	1		· TERMINAL BLOCK, COVER		
12	R4264182	4		· TERMINAL BLOCK, FUSE		
13	R4264181	12		· TERMINAL BLOCK, DIODE		
14	R4266266	8		· BRIDGE, FIXED		
15	R4289050	1		· MARKERS, TERMINAL - ADEC		
16	R4270202	3		· FERRULE, 22 AWG - PURPLE		
17	R4250959	1		· RAIL MOUNT, 12" DIN		
18	R4265756	1		· BRACKET END		
19	R4260949	2		· BRACKET MOUNT SOCKET, RELAY		
20	R4274370	1		· LABELS		
21	R4262059	4	FT	· CABLE, #20		
22	R4289019	1		· CODE SHEET, ENGINE INTERFACE BOX ASSEMBLY		
23	R4228656	2		· PLATE, SEPARATING - TS-KK3 DIN		
24	R4260950	5		· RELAY, 20A		
25	R4217714	2		· LOCKNUT, NYLON - LNP-M20		
26	R4217715	1		· LOCKNUT, NYLON - LNP-M25		
27	R4238809	2		· ADAPTER BODY AB12-M20		
28	R4217705	1		· ADAPTER BODY		
29	R4238811	2		· NUT, CAP - CN09		
30	R4245614	1		· NUT, CAP - CN21		
31	R4238814	2		· RING, SEALING - SRN09		
32	R4217711	1		· RING, SEALING - SRN21		
33	R4046896	1		· RING, SEALING - 1/2" - CONDUIT		
34	R4229234	2		· LOCKWASHER, 3/8" - S.S.		
35	R4129671	2		· LOCKWASHER, 3/8" - S.S.		
36	R2063953	4		· NUT, 3/8"-16 - S.S.		
37	N.P.N.			· NOT USED		
38	R4270208	4		· FERRULE, 10 AWG - YELLOW		
39	R4270207	4		· FERRULE, 12 AWG - GRAY		
40	R4012632	11		· SCREW, #10-32 X 5/8" - P.H.		
41	R4270205	44		· FERRULE, INSULATED - 16AWG .315LG BLACK		
42	R4245454	4		· SCREW, #4-40 X 1/2" - S.S.		
43	R4270203	12		· FERRULE, INSULATED - #20 AWG 5/16" LONG INSERT WHITE		
44	R4268634	1		· BREATHER/DRAIN, S.S.		
45	R4111903	1	FT	· CABLE, #12 AWG 2000V		
46	R4120401	24	FT	· CABLE, #16 AWG 600V		
47	R4111905	1		· CABLE, #8 AWG 2000V		
48	R4228927	1		· CABLE, GROUND - #8 AWG 3/8 LUGS		
49	R4019681	2		· TERMINAL, WIRE - #8 - 3/8" INS		
50	R4260955	20		· LUG, SPADE - 14-16 AWG, MALE		
51	R4288938	1		· RECEPTACLE, CAN - MALE, 1M		
52	R4264983	1		· RECEPTACLE, 12 PIN - MALE		
53	R4163232	1		· ROD, THREADED - 3/8"-16 X 2-1/2" S.S.		
54	R4229233	4		· FLATWASHER, 3/8" - S.S.		

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
55	R0182634	11		· LOCKWASHER, #10 - EXTERNAL TOOTH		
56	R4289014	1		· RECEPTACLE, HD34-24-31		
57	R4278918	2		· SEAL, HOLE - 1", S.S.		
58	R4238808	2	FT	· CONDUIT, NYLON - NC12		
59	R4232459	4	FT	· CABLE, #10 AWG 2000V		
60	R4019694	1		· TERMINAL, WIRE - 3/8" HOLE		
61	R4228783	1	FT	· HEAT SHRINK, GREEN/YELLOW - 1/4"		
62	R4289018	4		· STANDOFF, #6-32 X #4-40 X 1-1/2" - S.S.		
63	R0980181	4		· LOCKWASHER, #4 - EXTERNAL TOOTH		
64	R4289013	1		· RECEPTACLE, HD34-24-19		
65	R4240205	20		· PIN, CONTACT - 16		
66	R4240037	6		· PIN, CONTACT - 12-14		
67	R4153882	24		· PLUG, SEALING - #12-16 AWG		
68	R4264185	2		· BRIDGE, FIXED		
69	N.P.N.			· NOT USED		
70	R4238815	1		· SLEEVE, END		
71	R4018725	2		· CABLE TIE, 4" - BENT TIP/BLACK		
72	R4292853	1		· ENGINE DIAGNOSTIC DISPLAY BOX		
73	R4292854	1		· BRACKET, MURPHY BOX		
74	R4265762	1		· PLUG, DTM06-6S		
75	R4265763	1		· WEDGE, W6S		
76	R4265764	5		· SOCKET, CONTACT - 20		
77	R4153882	1		· PLUG, SEALING - #12-16 AWG		
78	R4274546	1		· TERMINAL BLOCK, COVER		
79	R4251788	4		· BRIDGE, FIXED		
80	R4274545	2		· TERMINAL BLOCK, GRAY		
		REF		DRAWING, ENGINE INTERFACE BOX ASSEMBLY (R428905106)		

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SR COOLER PLUMBING GROUP



ITEM	PART NO.	QTY	DESCRIPTION
68	4271692	1	HOSE SR COOLANT 1.00 ID X 19 IN
67	4275461	1	HOSE SR COOLANT 1.00 ID X 15 IN
66	4290126	1	PIPE NIP 1.500 6.00 700 SS
65	4290297	1	PIPE RED 1.25 .250 BSH SS
64	4014475	2	CLAMP CABLE INSL 2.00 .406
63	4290075	1	HOSE RUBBER SR RETURN - RADIATOR
62	4290261	1	HOSE 1-1/2 ID X 32.50 SR COOLANT
61	4290260	1	HOSE 1 1/2 ID SR RETURN TO RADIATOR
60	4290259	1	HOSE 1-1/2 ID SR SUPPLY TO SR CABINET
55	4275470	1	HOSE SR COOLANT 1.00 OD X 56 IN
54	4275471	4	HOSE SR COOLANT 1.00 ID X 24 IN
53	4275469	1	HOSE SR COOLANT 1.00 ID X 46 IN
52	4069123	1	HOSE-16-62-OJ-OJ-1000 PSI
51	4002434	1	FTG HYD 45 16 MJ 16 MP
50	4011748	1	FTG HYD 90 4 MJ 4 MP JUMP
49	4210359	1	HOAE-A-4-92-OJ-90J-2750 PSI
48	4290157	1	BELL REDUCER, 2 X 1-1/2, SS
47	4290156	1	PIPE NIP 2.000 3.000 700 SS
46	4276136	6	CLAMP HOSE T-BOLT 1.875 - 2.125
45	4276135	17	CLAMP HOSE T-BOLT 1.44 - 1.56
44	0810970	7	BOLT HX .375 .750 NC G8 FT
43	4290077	4	FB SR TUBE CLAMP
40	4290072	1	STR SR COOLANT RETURN
39	4290269	1	STR SR COOLANT TUBE INLET L1350
36	0810971	14	BOLT HX .375 1.000 NC G8 FT
35	4290084	1	ASY HD COOLING PUMP MOUNT
34	0753123	29	WASHER LOCK SPR .375 .68 .09
33	4237810	2	CLAMP HALF 2.50
32	0983442	4	CLAMP HOSE T-BOLT 3.00
31	4275494	1	HOSE 1.00 ID RELIEF DRAIN
30	4015086	1	HOSE 2-1/2 X 6 LG
29	4290092	1	STR SR COOLANT TUBE L1350
28	0031470	1	PIPE PLUG 1.500 CS SQ
27	4290158	1	PIPE NIP 1.500 4.000 700 SS
26	4275488	1	VALVE RELIEF 50 PSI 1-1/4 NPT
25	4290132	1	PIPE RED 1.500 1.250 BSH 6000 SS
24	4290138	6	KING COMBINATION 1.500 SS
23	4290124	1	PIPE TEE 1.500 150 SS
22	4290130	5	PIPE ELBOW 1.500 90 700 SS
21	4290129	5	PIPE NIP 1.500 2.00 700 SS
20	4275489	1	VALVE CHECK 1-1/2 NPT
19	2199013	1	BALL VALVE 1
18	4290148	1	PIPE NIP 1.000 3.00 700 SS
17	4290127	1	PIPE ELBOW 90 DEG STREET 1.000 150 SS
16	4271731	1	STR MANIFOLD SR COOLANT
15	4271728	2	STR CLAMP MOUNT SR COOLANT
14	4002443	1	FTG HYD 90 16 MJ 16 MP
13	4223940	2	PIPE PLG 1.000 OH HX
12	4290137	13	KING COMBINATION NIPPLE 1.000 SS
11	0812921	4	NUT HX 0.375-16UNC-2B G8 PL
10	4009640	12	BOLT HX .375 1.500 NC G8
9	0808221	23	WASHER FLAT .375 .81 .08
8	4237218	5	CLAMP HALF RAD 2.50
7	4292095	1	STR MANIFOLD SR COOLANT RETURN 1350
6	4290246	3	ELBOW 1.250 90 150 SS
5	4016765	1	FTG HYD 0 4 MJ 4 MP
4	4290298	1	PIPE NIP 1.250 1.625 700 SS
3	4290133	5	PIPE BUSHING 1.250 1.000 6000 SS
2	4290247	1	PIPE TEE 1.25 300 SS
1	4290164	1	PIPE NIP 1.250 3.00 700 SS

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INTERPRET DIM & TOL PER LETOURNEAU SPEC. 9000.00

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, .XX DECIMAL ±.03, .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO: L1250

DWN	sschluter	04-13-17
CHK	JBD	04-18-17
ENGR	JBD	04-18-17
PROD ENGR		
PROJ APPROVAL	JBD	04-18-17
MATL		

KOMATSU

GP SR COOLANT L1250

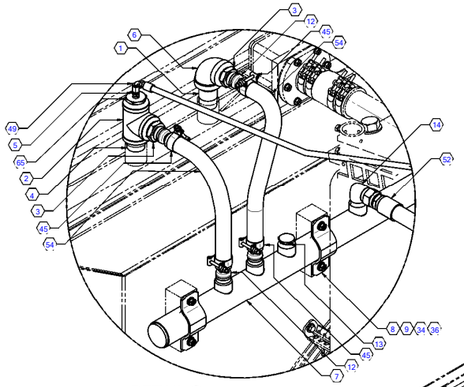
SIZE E | DO NOT SCALE | DWG NO. 4290256 | REV 03

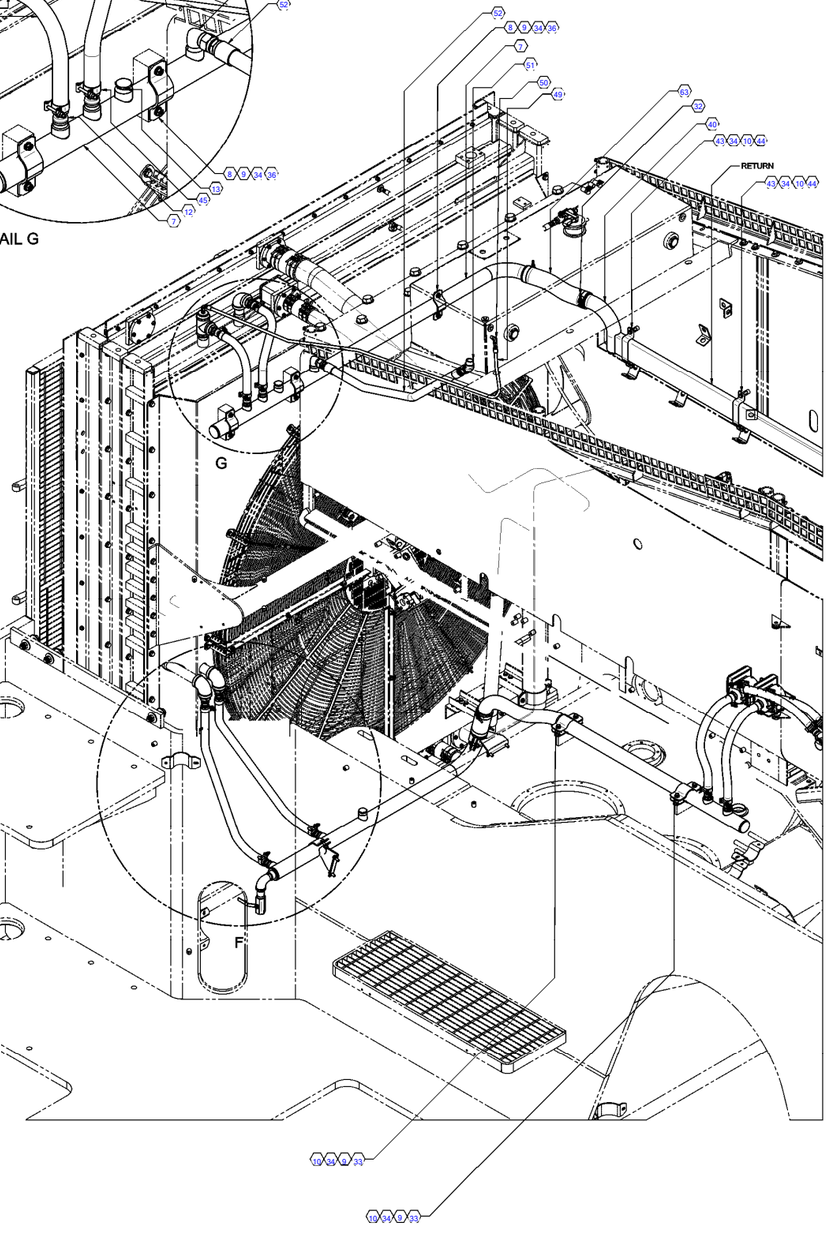
SCALE 1:8 | WT KT 264.9 lbm | SHEET 1 OF 3

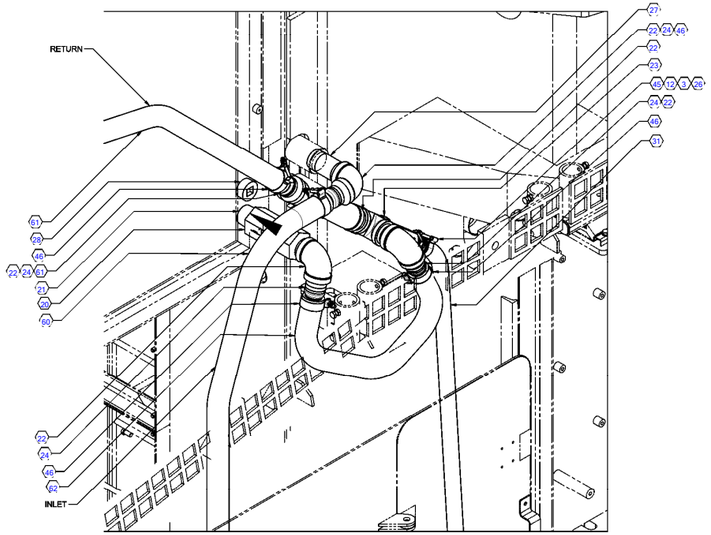
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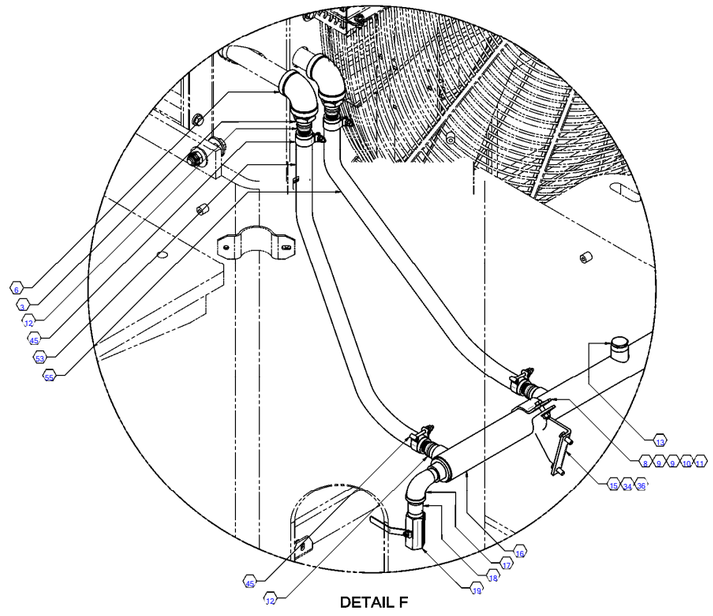
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SR COOLER PLUMBING GROUP







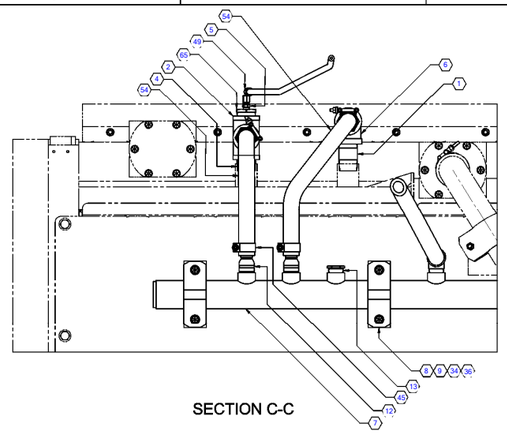


QP SR COOLANT L1250 | SIZE E | DO NOT SCALE | DWG NO. 4290256 | REV 03 | SCALE 1:8 | WT 264.9 lbm | SHEET 2 OF 3

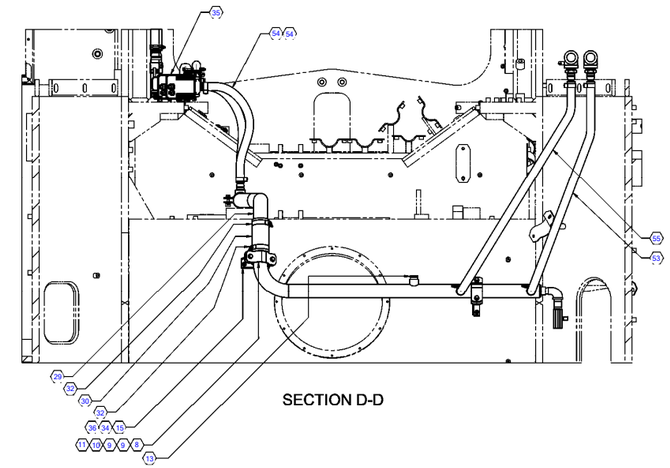
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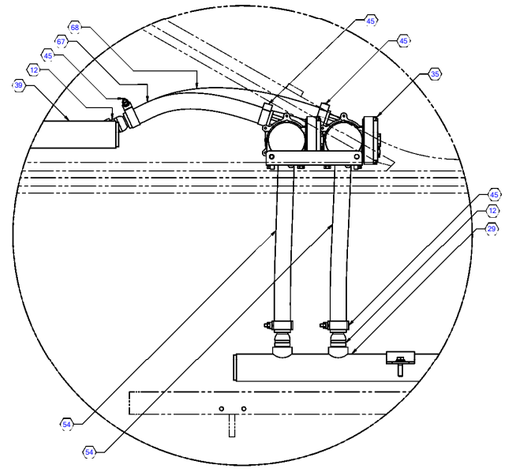
SR COOLER PLUMBING GROUP



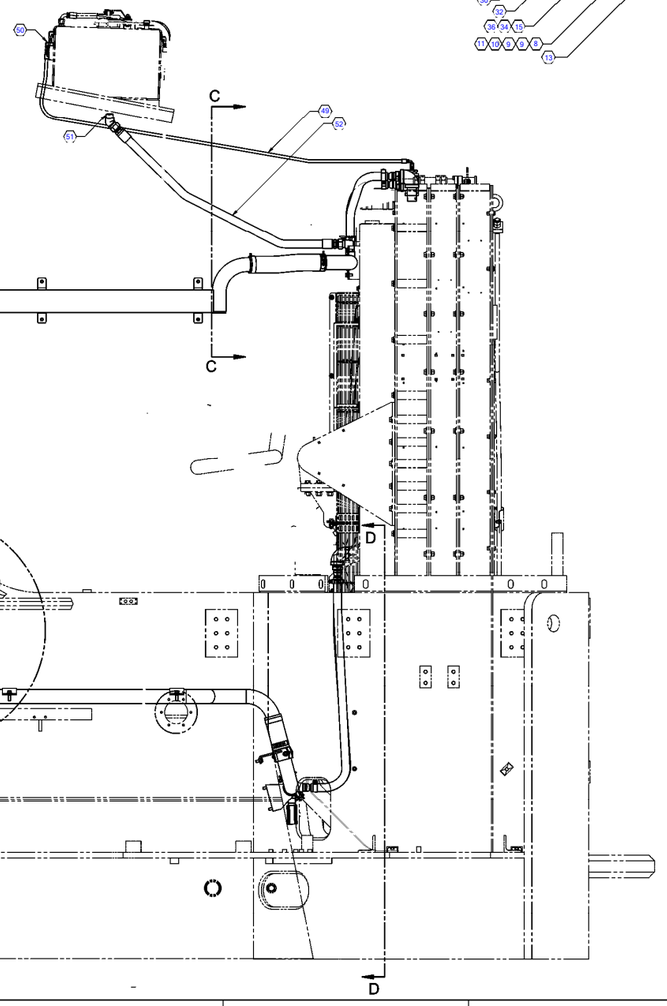
SECTION C-C

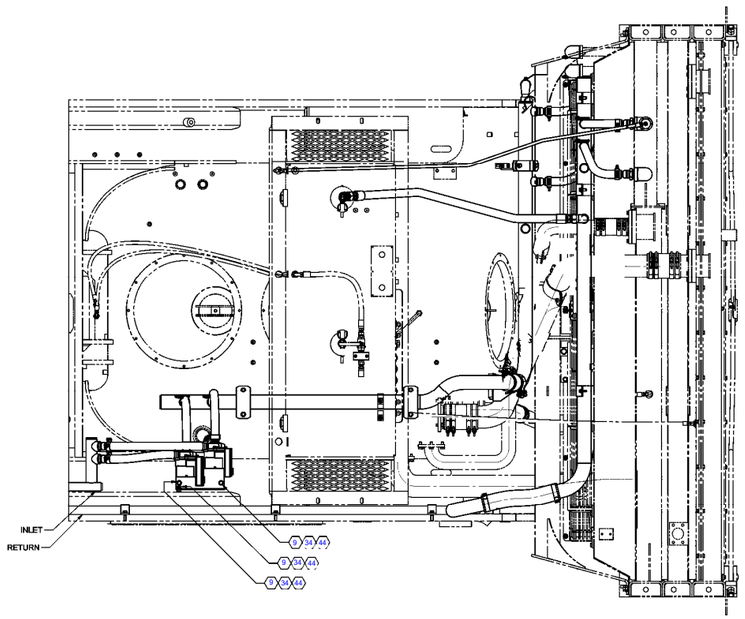


SECTION D-D



DETAIL E





QP SR COOLANT L1250

DRAWN	RICHTER	E	DO NOT SCALE	4290256	03
DRAWN	04-13-17	SCALE 1:8	WT 264.9 lbm	SHEET 3 OF 3

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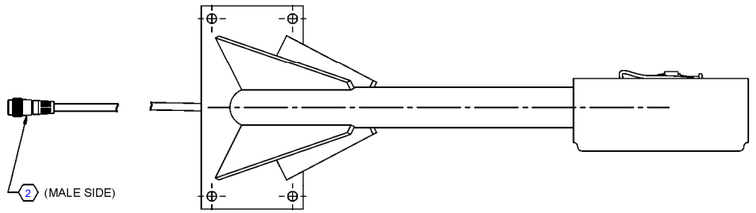
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4290256		SR COOLER PLUMBING GROUP		
1	R4290164	1	· NIPPLE, PIPE - 1-1/4" X 3" - S.S.		
2	R4290247	1	· TEE, 1-1/4" FP - S.S.		
3	R4290133	5	· REDUCER, 1" FP X 1-1/4" MP - S.S.		
4	R4290298	1	· NIPPLE, PIPE - 1-1/4" X 1-1/2" - S.S.		
5	R4016785	1	· ADAPTER, 1/4" MP X #4 MJ		
6	R4290246	3	· ELBOW, 1-1/4" FP X 90 deg. X 1-1/4" FP - S.S.		
7	R4292095	1	· MANIFOLD STRUCTURE, SR COOLANT - RETURN		
8	R4237218	5	· CLAMP HALF, 2-1/2"		
9	R0808221	23	· FLATWASHER, 3/8"		
10	R4009640	12	· BOLT, 3/8"-16 X 1-1/2"		
11	R0812921	4	· NUT, 3/8"-16		
12	R4290137	13	· NIPPLE, 1" MP X 1" I.D. HOSE - S.S.		
13	R4223340	2	· PLUG, PIPE - 1", HEX HD.		
14	R4002443	1	· ELBOW, 1" MP X 90 deg. X #16 MJ		
15	R4271728	2	· MOUNT STRUCTURE, CLAMP - SR COOLANT		
16	R4271731	1	· MANIFOLD STRUCTURE, SR COOLANT		
17	R4290127	1	· ELBOW, 1" FP X 90 deg. X 1" MP - S.S.		
18	R4290148	1	· NIPPLE, PIPE - 1" X 3" - S.S.		
19	R2199013	1	· VALVE, BALL - 1"		
20	R4275489	1	· VALVE, CHECK - 1-1/2" - 25 PSI		
21	R4290129	5	· NIPPLE, PIPE - 1-1/2" X 2" - S.S.		
22	R4290130	5	· ELBOW, 1-1/2" FP X 90 deg. X 1-1/2" FP - S.S.		
23	R4290124	1	· TEE, 1-1/2" FP - S.S.		
24	R4290138	6	· ADAPTER, 1-1/2" MP X 1-1/2" I.D. HOSE - S.S.		
25	R4290132	1	· REDUCER, 1-1/4" FP X 1-1/2" MP - S.S.		
26	R4275488	1	· VALVE, RELIEF - 30 PSI		
27	R4290158	1	· NIPPLE, PIPE - 1-1/2" X 4" - S.S.		
28	R0031470	1	· PLUG, PIPE - 1-1/2", SQ. CSK.		
29	R4292092	1	· TUBE STRUCTURE, SR COOLANT		
30	R4015086	1	· HOSE, 2-1/2" I.D. X 6"		
31	R4275494	1	· HOSE, 1" I.D. X 101"		
32	R0983442	4	· CLAMP, HOSE - T-BOLT, 3"		
33	R4237810	2	· CLAMP HALF, 2-1/2"		
34	R0753123	29	· LOCKWASHER, 3/8"		
35	R4286084	1	· PUMP, WATER CIRCULATING - DOUBLE		
	R4267796	2	· · PUMP, WATER CIRCULATING		
	R4259344	REF	· · HARNESS ASSEMBLY, COOLING CIRCULATION PUMP		
	R4267798	REF	· · CABLE, WATER PUMP - LINCS II		
36	R0810971	14	· BOLT, 3/8"-16 X 1"		
37	N.P.N.		· NOT USED		
38	N.P.N.		· NOT USED		
39	R4292089	1	· TUBE STRUCTURE, SR COOLANT - INLET		
40	R4290072	1	· TUBE STRUCTURE, RETURN		
41	N.P.N.		· NOT USED		
42	N.P.N.		· NOT USED		
43	R4290077	4	· CLAMP, TUBE STRUCTURE		
44	R0810970	7	· BOLT, 3/8"-16 X 3/4"		
45	R4276135	17	· CLAMP, HOSE - T-BOLT, 1-1/2"		
46	R4276136	6	· CLAMP, HOSE - T-BOLT, 2"		
47	R4290156	1	· NIPPLE, PIPE - 2" X 3" - S.S.		
48	R4290157	1	· REDUCER, 1-1/2" FP X 2" FP - S.S.		
49	R4210359	1	· HOSE ASSEMBLY, #4 X 92"		
50	R4011748	1	· ELBOW, 1/4" MP X 90 deg. X #4 MJ		
51	R4002434	1	· ELBOW, 1" MP X 45 deg. X #16 MJ		
52	R4069123	1	· HOSE ASSEMBLY, #16 X 52"		
53	R4275469	1	· HOSE ASSEMBLY, 1" X 46"		
54	R4275471	4	· HOSE ASSEMBLY, 1" X 24"		

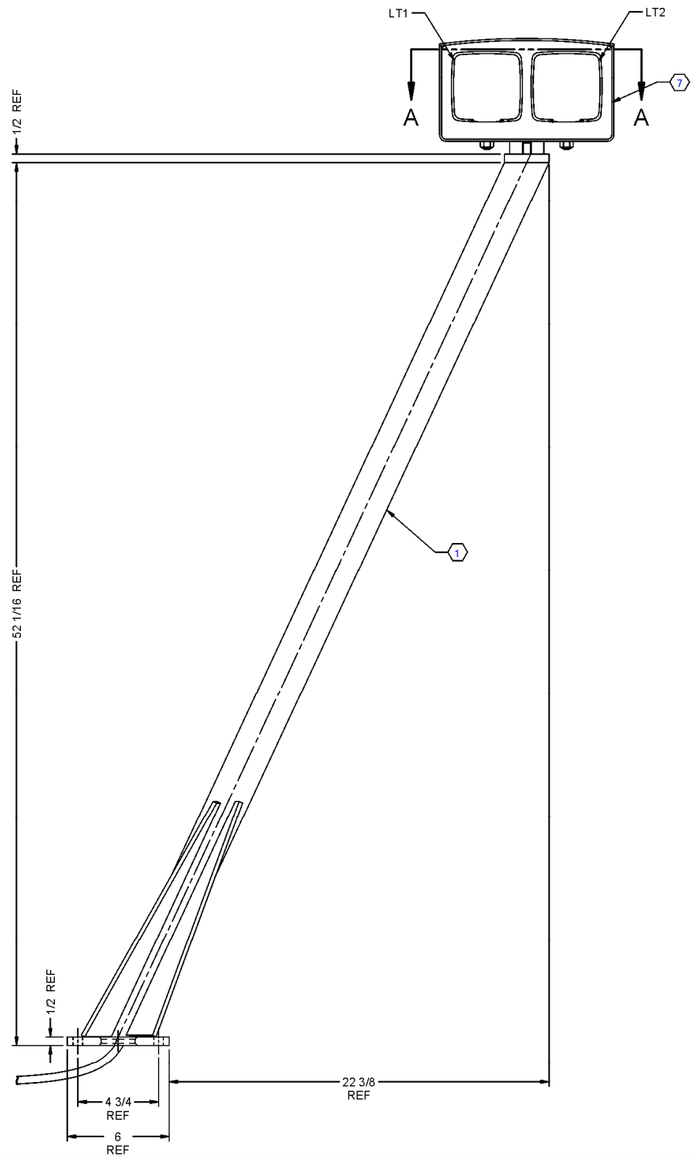
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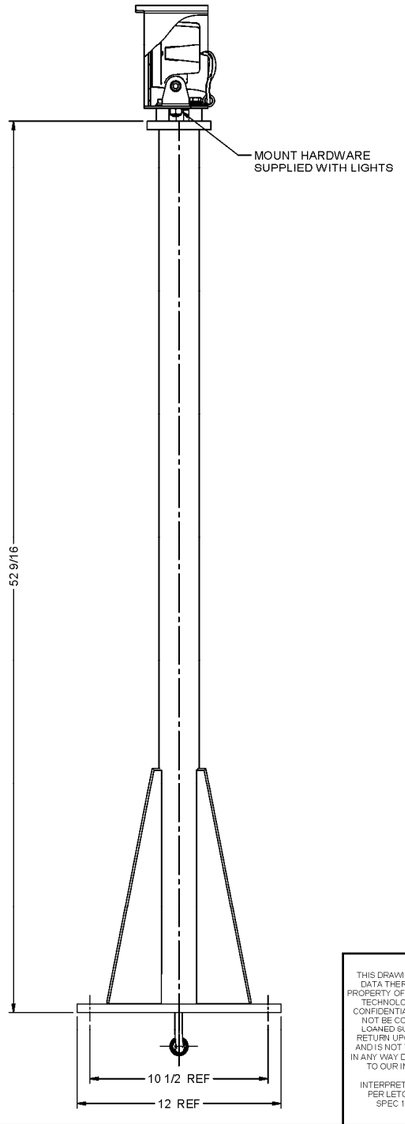
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
55	R4275470	1	· HOSE ASSEMBLY, 1" X 56"		
56	N.P.N.		· NOT USED		
57	N.P.N.		· NOT USED		
58	N.P.N.		· NOT USED		
59	N.P.N.		· NOT USED		
60	R4290259	1	· HOSE, 1-1/2" I.D. X 60-1/2" - SR SUPPLY TO SR CABINET		
61	R4290260	1	· HOSE, 1-1/2" I.D. X 89" - SR RETURN TO RADIATOR		
62	R4290261	1	· HOSE, 1-1/2" I.D. X 32-1/2" - SR COOLANT		
63	R4290075	1	· HOSE, 2-1/2" I.D. X 14-3/4" - SR RETURN		
64	R4014475	2	· CLAMP, CABLE - INSULATED, 2"		
65	R4290297	1	· REDUCER, 1/4" FP X 1-1/4" MP - S.S.		
66	R4290126	1	· NIPPLE, PIPE - 1-1/2" X 6" - S.S.		
67	R4275461	1	· HOSE, 1" I.D. X 15"		
68	R4271692	1	· HOSE, 1" I.D. X 19"		
		REF	DRAWING, SR COOLER PLUMBING GROUP (R429025603)		

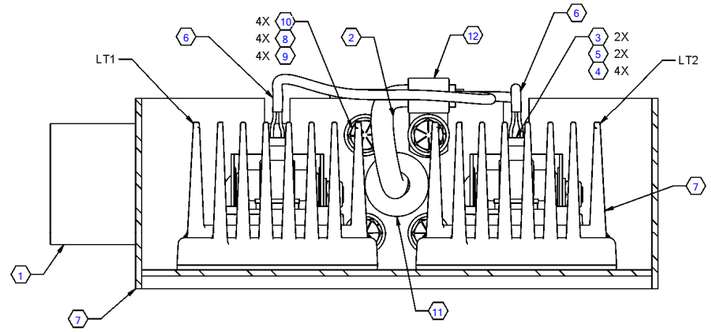
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FRONT LIGHT POLE ASSEMBLY

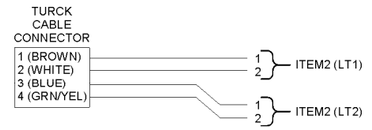








SECTION A-A
SCALE 3/4



WIRING SCHEMATIC

ASSEMBLY NOTES:
1. CUT CABLE (ITEM 2) 14 INCHES FROM THE END OF THE FEMALE CONNECTOR AND LEAVE CONDUCTORS IN THE JACKET.
2. INSTALL CABLE SO THAT 1 FOOT OF CABLE EXITS THELIGHT MOUNT.
3. REMOVE 6 INCHES OF THE JACKET.
4. INSTALL ITEM 6 TO BROWN & WHITE PAIR AND BLUE &GREEN/YELLOW PAIR.
5. INSTALL ITEMS 3, 4 AND 5 PER WIRING SCHEMATIC.

ITEM	PART NO.	QTY	DESCRIPTION
12	4274559	1	CLAMP CABLE INSL .50 .406
11	4286027	1	GROMMET .125 PANEL 1.00 HOLE
10	0810971	4	BOLT HX .375 1.00 NC G8 FT
9	0753123	4	WASHER LOCK SPR .375 .68 .09
8	0808221	4	WASHER FLAT .375 .81 .08
7	4288972	1	ASSY LIGHT ENCLOSURE
6	4274678	1 FT	HEAT SHRINK TUBING, SELF SEAL 1/4 MIN I.D.
5	4255413	2	WEDGE W2S DEUTSCH
4	4185764	4	SOCKET CONTACT SIZE 16 -4
3	4255414	2	PLUG DT06-2S DEUTSCH
2	4274512	1	CABLE EXT 4-PIN 4M
1	4259948	1	STR LIGHT MNT POLE

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° FRAC TIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO
4258782

		DATE
DWN	R.MILLER	9-10-07
CHK	RWD	9-11-07
ENGR		
PROD ENGR	ML	9-11-07
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY LIGHT MNT POLE LH

SIZE D | DO NOT SCALE | DWG NO. 4259947 | REV 10

SCALE 1/4 | EST WT 65.0 lbm | SHEET 1 OF 1

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FRONT LIGHT POLE ASSEMBLY

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FRONT LIGHT POLE ASSEMBLY

Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4259947			FRONT LIGHT POLE ASSEMBLY - LEFT SIDE (-1)		5/11/17
1	R4259948	1		· POLE STRUCTURE, FRONT LIGHT		
2	R4274512	1		· CABLE EXTENSION, 4 PIN 4M		
3	R4255414	2		· PLUG		
4	R4185764	4		· SOCKET, CONTACT - 16		
5	R4255413	2		· WEDGE		
6	R4274678	1	FT	· TUBING, HEATSHRINK, BLACK - 1/4"		
7	R4288972	1		· LIGHT ENCLOSURE ASSEMBLY		
	R4288978	1		· · LIGHT ENCLOSURE STRUCTURE		
	R4290079	2		· · LAMP ASSEMBLY, FLOOD - LED, 24V		
8	R0808221	4		· FLATWASHER, 3/8"		
9	R0753123	4		· LOCKWASHER, 3/8"		
10	R0810971	4		· BOLT, 3/8"-16 X 1"		
11	R4286027	1		· GROMMET, 1" HOLE		
12	R4274559	1		· CLAMP, CABLE - INSULATED, 1/2"		
				NOTE:		
	R4259951	REF		· FRONT LIGHT POLE ASSEMBLY - RIGHT SIDE (PAGE 5.39-5.39B)		
		REF		DRAWING, FRONT LIGHT POLE ASSEMBLY - LEFT SIDE (R425994710)		5/11/17

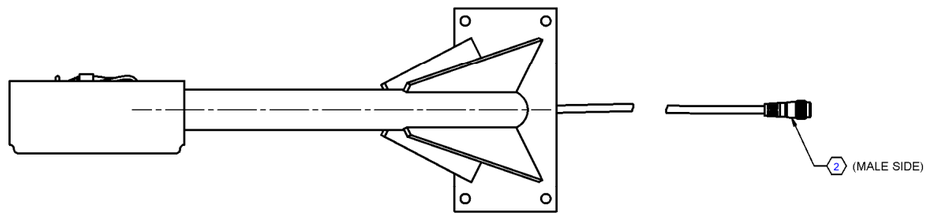
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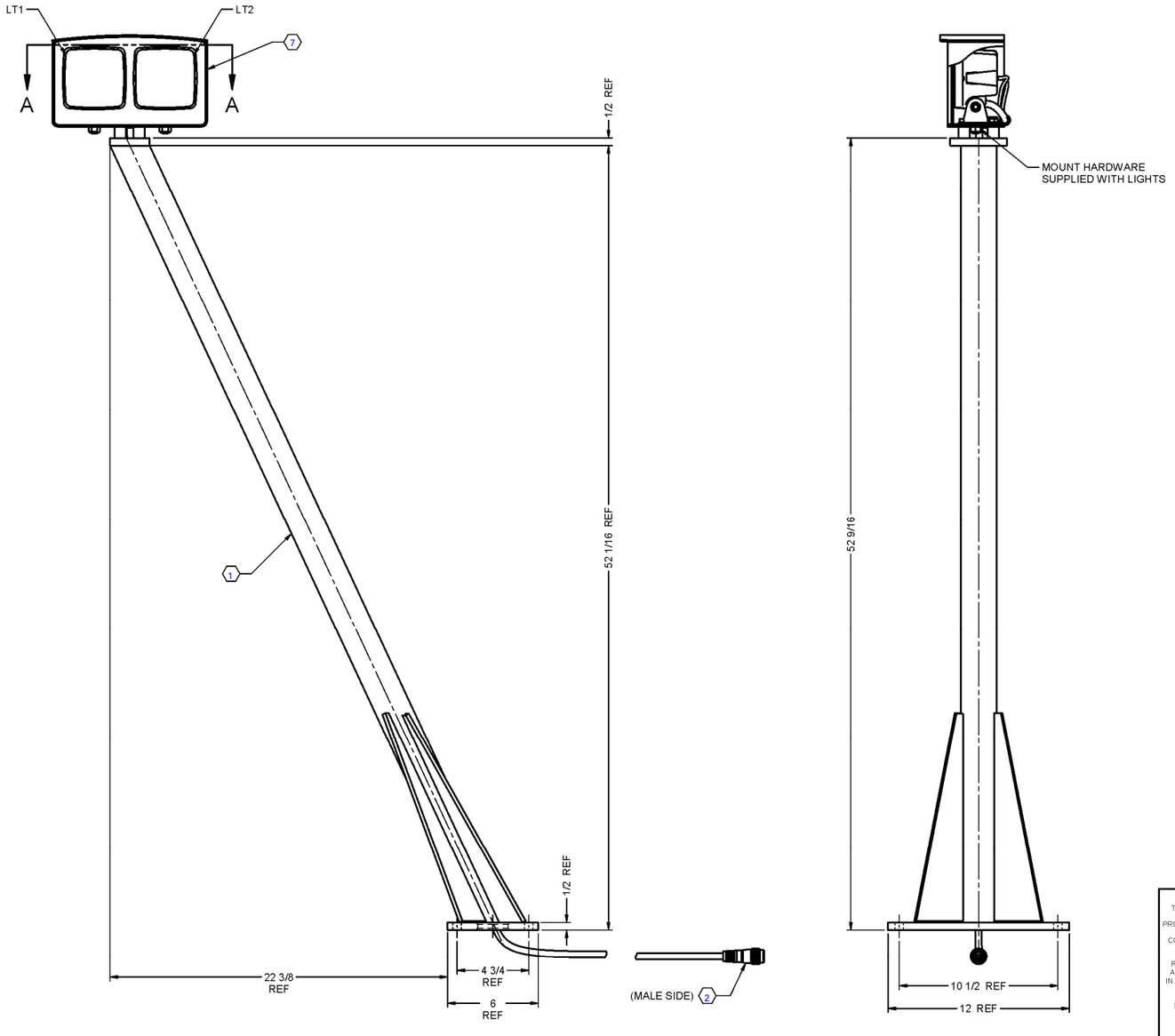
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

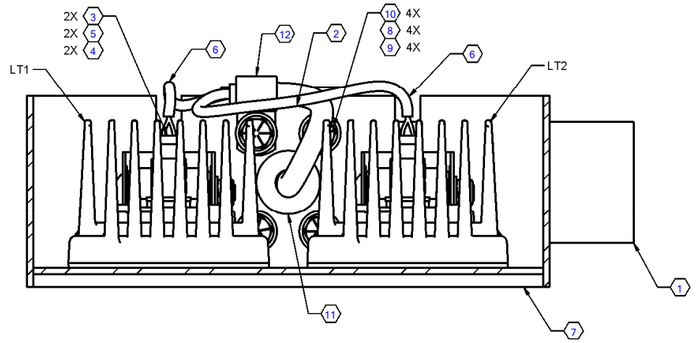
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FRONT LIGHT POLE ASSEMBLY







SECTION A-A
SCALE 3/4



WIRING SCHEMATIC

ASSEMBLY NOTES:

1. CUT CABLE (ITEM 2) 14 INCHES FROM THE END OF THE FEMALE CONNECTOR AND LEAVE CONDUCTORS IN THE JACKET.
2. INSTALL CABLE SO THAT 1 FOOT OF CABLE EXITS THELIGHT MOUNT.
3. REMOVE 6 INCHES OF THE JACKET.
4. INSTALL ITEM 6 TO BROWN & WHITE PAIR AND BLUE &GREEN/YELLOW PAIR.
5. INSTALL ITEMS 3, 4 AND 5 PER WIRING SCHEMATIC.

ITEM	PART NO.	QTY	DESCRIPTION
12	4274559	1	CLAMP CABLE INSL .50 .406
11	4286027	1	GROMMET .125 PANEL 1.00 HOLE
10	0810971	4	BOLT HX .375 1.00 NC G8 FT
9	0753123	4	WASHER LOCK SPR .375 .68 .09
8	0808221	4	WASHER FLAT .375 .81 .08
7	4288972	1	ASSY LIGHT ENCLOSURE
6	4274678	1 FT	HEAT SHRINK TUBING, SELF SEAL 1/4 MIN I.D.
5	4255413	2	WEDGE W2S DEUTSCH
4	4185764	4	SOCKET CONTACT SIZE 16 -4
3	4255414	2	PLUG DT06-2S DEUTSCH
2	4274512	1	CABLE EXT 4-PIN 4M
1	4259948	1	STR LIGHT MNT POLE

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°, FRAC TIONS ±1/16, XX DECIMAL ±.03, XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 4258782

		DATE
DWN	R.MILLER	9-11-07
CHK	RWD	9-11-07
ENGR		
PROD ENGR	ML	9-11-07
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY LIGHT MNT POLE RH

SIZE D | DO NOT SCALE | DWG NO. 4259951 | REV 10

SCALE 1/4 | EST WT 65.0 lbm | SHEET 1 OF 1

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FRONT LIGHT POLE ASSEMBLY

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FRONT LIGHT POLE ASSEMBLY

Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4259951			FRONT LIGHT POLE ASSEMBLY - RIGHT SIDE (-1)		5/11/17
1	R4259948	1		· POLE STRUCTURE, FRONT LIGHT		
2	R4274512	1		· CABLE EXTENSION, 4 PIN 4M		
3	R4255414	2		· PLUG		
4	R4185764	4		· SOCKET, CONTACT - 16		
5	R4255413	2		· WEDGE		
6	R4274678	1	FT	· TUBING, HEATSHRINK, BLACK - 1/4"		
7	R4288972	1		· LIGHT ENCLOSURE ASSEMBLY		
	R4288978	1		· · LIGHT ENCLOSURE STRUCTURE		
	R4290079	2		· · LAMP ASSEMBLY, FLOOD - LED, 24V		
8	R0808221	4		· FLATWASHER, 3/8"		
9	R0753123	4		· LOCKWASHER, 3/8"		
10	R0810971	4		· BOLT, 3/8"-16 X 1"		
11	R4286027	1		· GROMMET, 1" HOLE		
12	R4274559	1		· CLAMP, CABLE - INSULATED, 1/2"		
				NOTE:		
	R4259947	REF		· FRONT LIGHT POLE ASSEMBLY - LEFT SIDE (PAGE 5.39-5.39A)		
		REF		DRAWING, FRONT LIGHT POLE ASSEMBLY - RIGHT SIDE (R425995110)		5/11/17

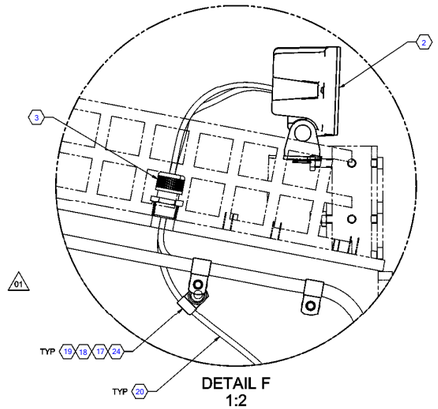
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

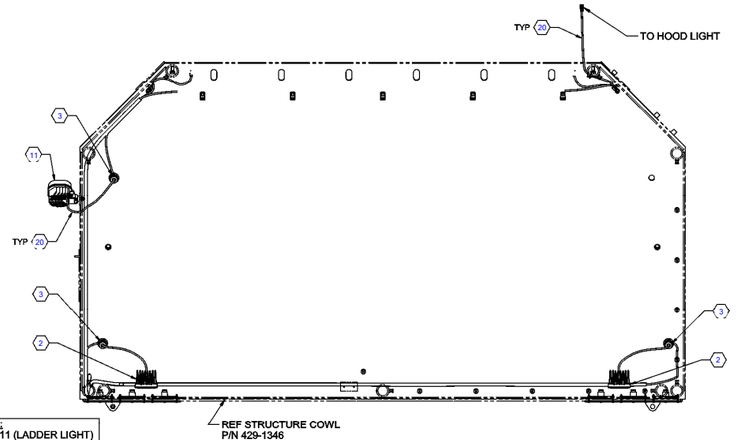
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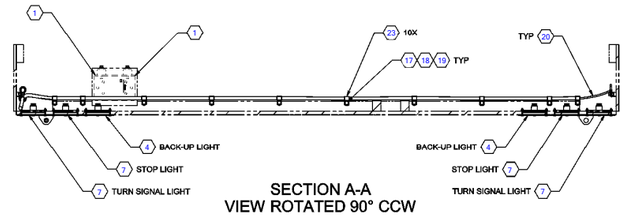
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REAR COWL LIGHTS GROUP



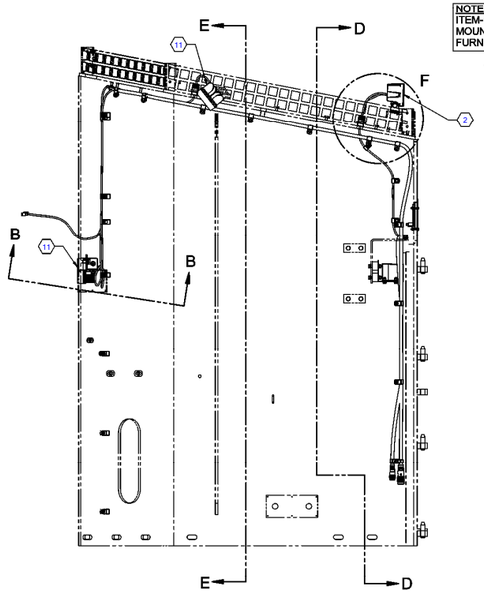
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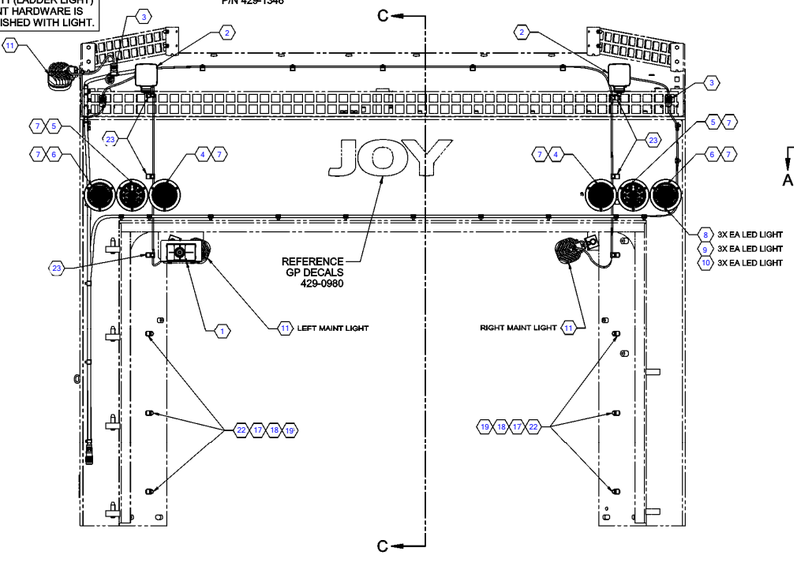


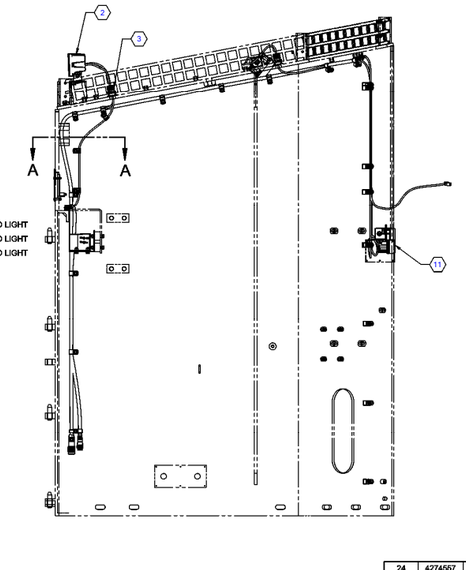


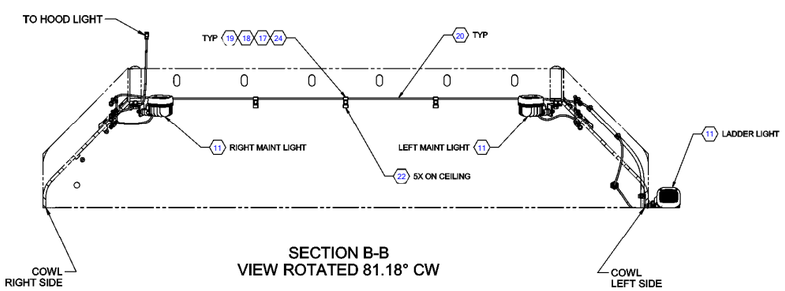
SECTION A-A
VIEW ROTATED 90° CCW

NOTE:
ITEM-11 (LADDER LIGHT)
MOUNT HARDWARE IS
FURNISHED WITH LIGHT.









SECTION B-B
VIEW ROTATED 81.18° CW

ITEM	PART NO.	QTY	DESCRIPTION
24	4274557	15	CLAMP CABLE INSL .25 .406
23	4274559	27	CLAMP CABLE INSL .50 .406
22	4274558	12	CLAMP CABLE INSL .38 .406
21	4086112	1	CLAMP CABLE INSL .63 .40
20	4286036	1	ASSY HARNESS REAR COWL G2 LOADER
19	0890221	42	WASHER FLAT .375 .81 .08
18	0753123	42	WASHER LOCK SPR .375 .69 .09
17	0788159	42	BOLT HX .375 .625 NC G8 FT
16	0810991	2	WASHER FLAT .531 1.062 .121
15	0801181	2	WASHER LOCK SPR .500 .873 .125
14	0801180	2	BOLT HX .500 1.000 NC G8 FT
13	4148400	2	LIGHT MOUNT
12	4164792	3	RUBBER BUSHING Ø.937 X .50
11	4256790	3	LAMP WORK LED 9-32V
10	4020576	18	NUT LOCK NYL INS #10 NF
9	0810680	18	WASHER FLAT .219 .50 .07
8	0988149	18	MSCR #10 1.250 NF PH
7	4245976	6	LED FLANGE COVER 4" SS
6	4253924	2	LED TURN SIGNAL LIGHT YELLOW
5	4245975	2	LED STOP/TURN/TAIL LIGHT RED
4	4245974	2	LED BACK-UP LIGHT WHITE
3	4032348	3	CABLE CONNECTOR .75 (.500 .625) WT
2	4288980	2	LAMP, 24V LED WIDE FLOOD
1	4286064	1	KIT, BACK-UP ALARM

01

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1660.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
4289023

JOY GLOBAL

DWN	LWILLIAMS	04-07-17
CHK	JMS	04-12-17
ENGR		
PROD ENGR	JMS	04-12-17
PROJ APPROVAL		
MATL		

GP COWL LIGHTS L1250 G3

SIZE E | DO NOT SCALE | DWG NO. 4289024 | REV 01

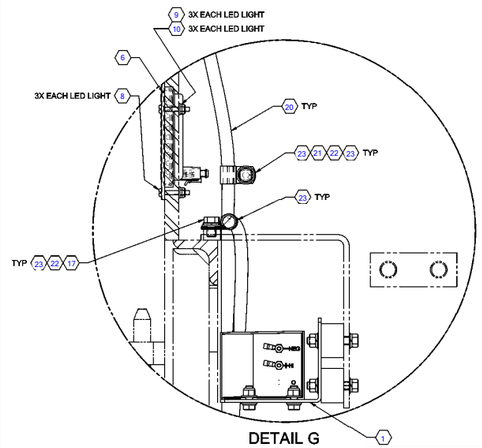
SCALE 1/8 | WT 30.8 lbm | SHEET 1 OF 4

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REAR COWL LIGHTS GROUP

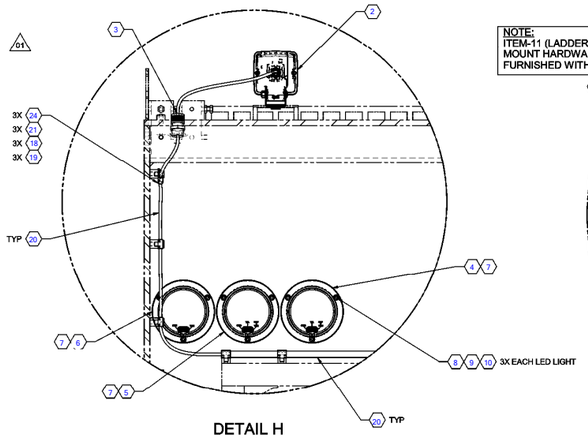
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REAR COWL LIGHTS GROUP



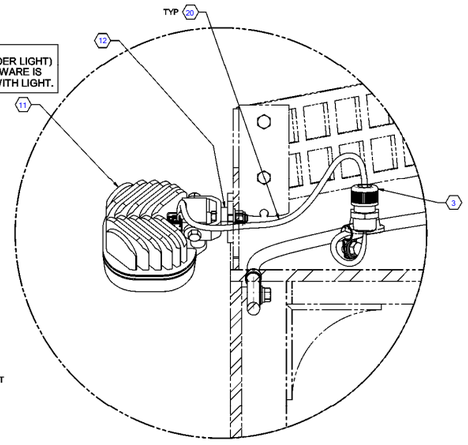
DETAIL G

NOTE:
ITEM-1 (BACK-UP ALARM)
MOUNT HARDWARE IS FURNISHED
WITH ALARM KIT 428-6064.

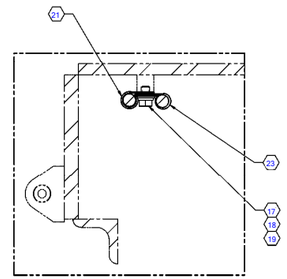


DETAIL H
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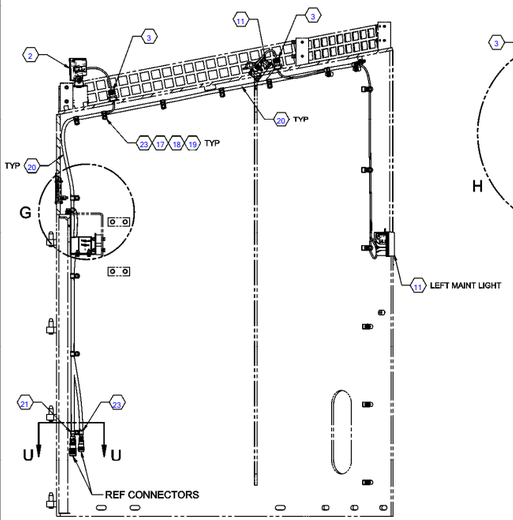
NOTE:
ITEM-11 (LADDER LIGHT)
MOUNT HARDWARE IS
FURNISHED WITH LIGHT.



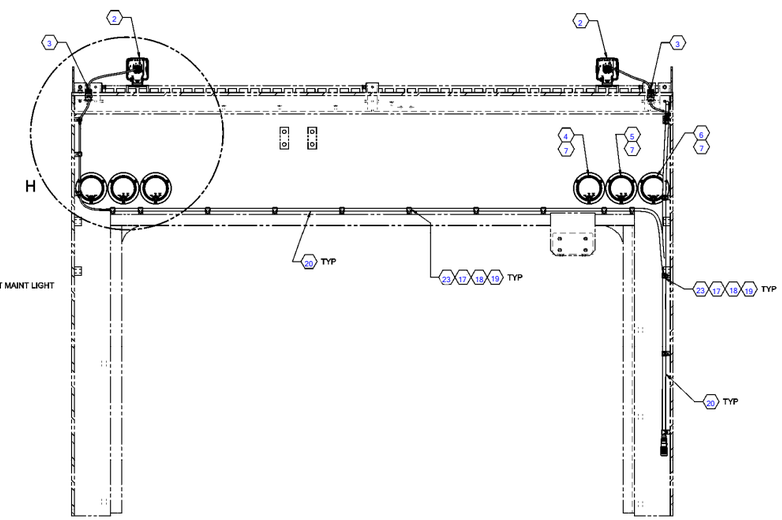
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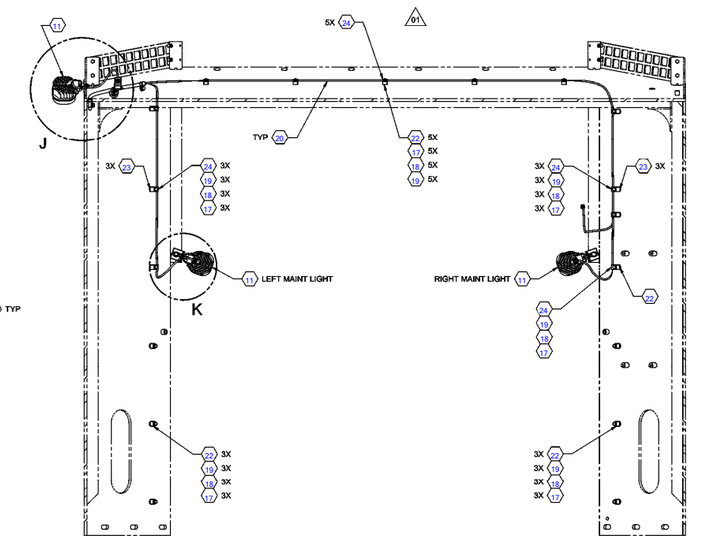
SECTION U-U
1:2
(CONNECTORS NOT SHOWN FOR CLARITY)



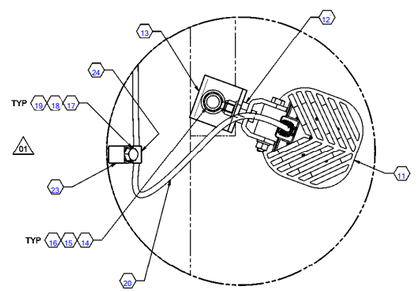
SECTION C-C



SECTION D-D



SECTION E-E



DETAIL K
(MOUNTING TYP FOR LEFT & RIGHT MAINT LIGHTS)
1:2

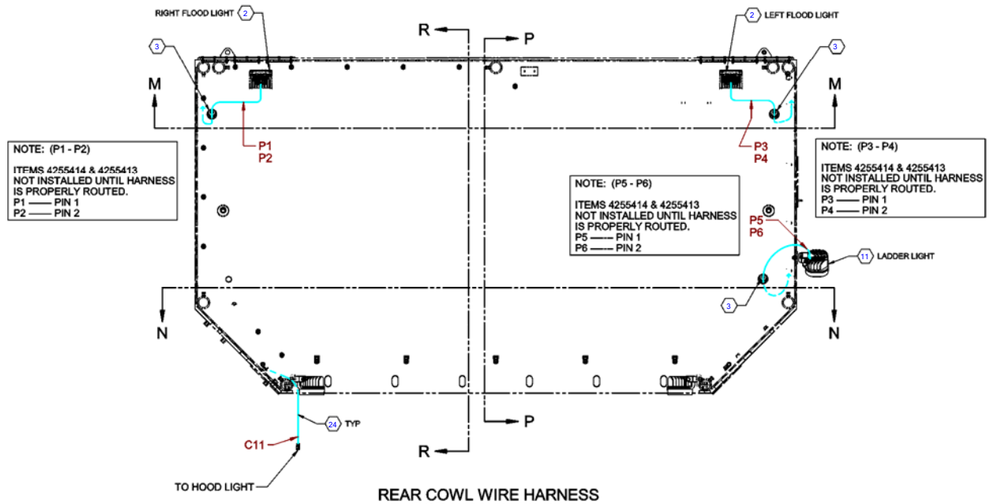
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DRAWN LWILLIAMS					
DATE 04-10-17		SCALE 1/8	WT 30.6 lbm	SHEET 2 OF 4	

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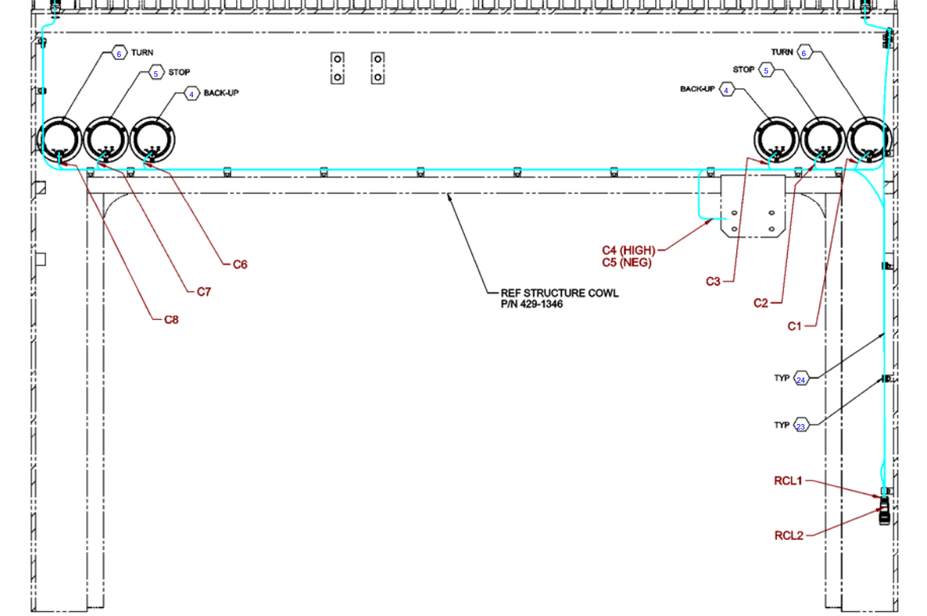
REAR COWL LIGHTS GROUP

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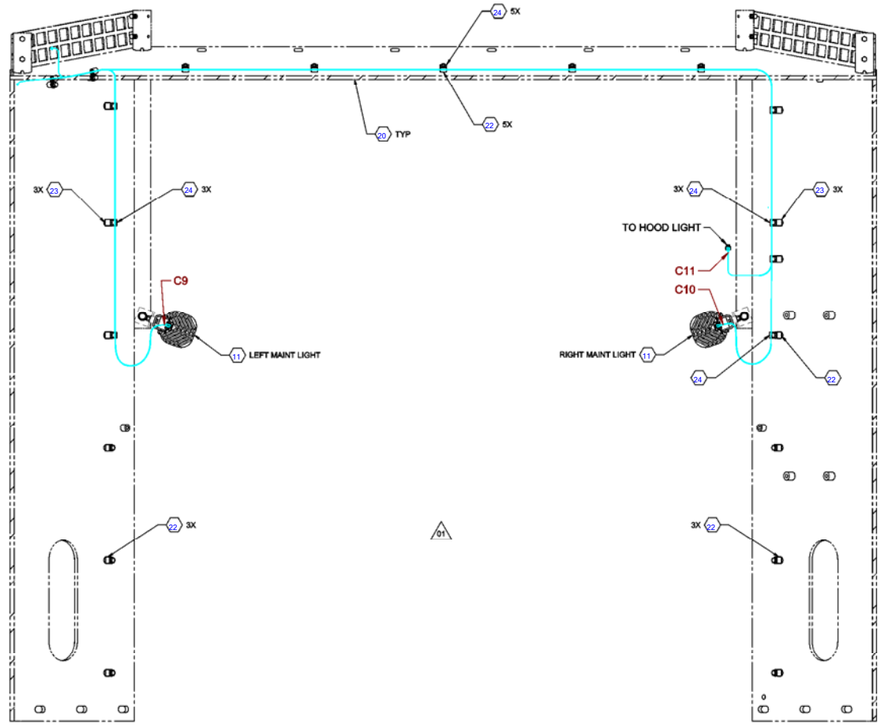
REAR COWL LIGHTS GROUP



REAR COWL WIRE HARNESS
TOP VIEW OUTSIDE
1:8



SECTION M-M
VIEW INSIDE - SIGNAL LIGHTS
1:5.56



SECTION N-N
VIEW ROTATED 180° CW
1:5.56

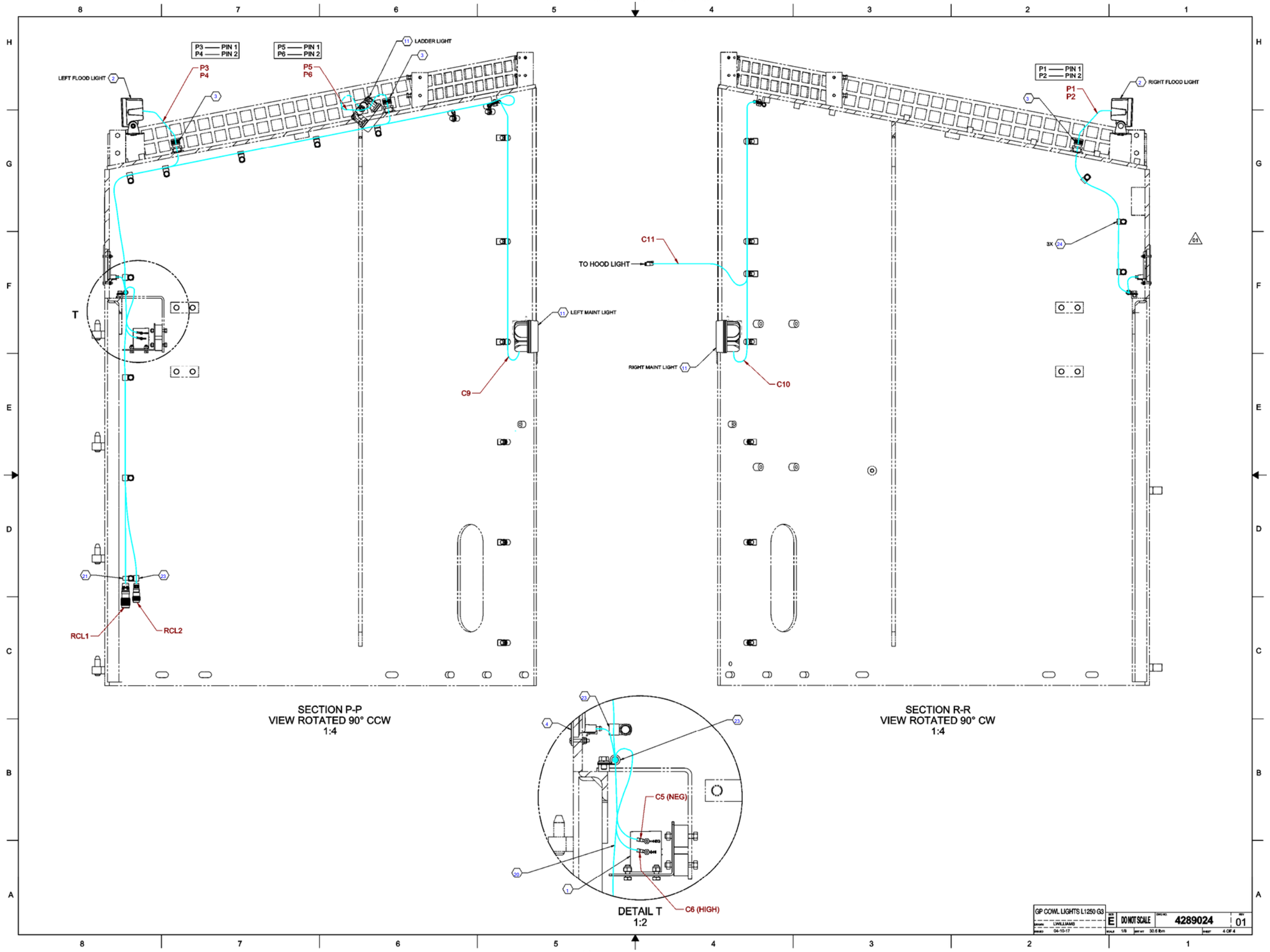
GP COWL LIGHTS L1250 G3			
DRAWN LWILLIAMS	SIZE E	DO NOT SCALE	4289024 REV 01
DATE 04-10-17	SCALE 1/8	WEIGHT 30.6 lbm	SHEET 3 OF 4

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REAR COWL LIGHTS GROUP

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REAR COWL LIGHTS GROUP



SECTION P-P
VIEW ROTATED 90° CCW
1:4

SECTION R-R
VIEW ROTATED 90° CW
1:4

DETAIL T
1:2

GP COWL LIGHTS L1250 G3		E	DO NOT SCALE	4289024	01
LWILLIAMS					
04-10-17		1/8	30.6 lbm	4 OF 4	

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REAR COWL LIGHTS GROUP

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289024		REAR COWL LIGHTS GROUP		
1	R4286064	1	· BACK-UP ALARM GROUP		
	R4285018	1	· · ALARM, REVERSE - HORN		
	R4032277	4	· · INSULATOR, VIBRATION		
2	R4288980	2	· LAMP ASSEMBLY, WIDE FLOOD - LED, 24V		
3	R4032348	3	· CONNECTOR, CABLE - 3/4"		
4	R4245974	2	· LIGHT ASSEMBLY, LED - WHITE		
5	R4245975	2	· LIGHT ASSEMBLY, LED - RED		
6	R4253924	2	· LIGHT ASSEMBLY, LED - YELLOW		
7	R4245976	6	· LED FLANGE COVER, 4" I.D. - S.S.		
8	R0988149	18	· SCREW, #10-32 X 1-1/4" - P.H.		
9	R0810880	18	· FLATWASHER, #10		
10	R4020576	18	· LOCKNUT, #10-32 - NYLON		
11	R4258790	3	· LAMP ASSEMBLY, WORK - LED, 9-32V		
12	R4164792	3	· BUSHING, RUBBER		
13	R4148460	2	· MOUNTING BRACKET		
14	R0801180	2	· BOLT, 1/2"-13 X 1"		
15	R0801181	2	· LOCKWASHER, 1/2"		
16	R0810991	2	· FLATWASHER, 1/2" X 1" X 1/8"		
17	R0788159	42	· BOLT, 3/8"-16 X 5/8"		
18	R0753123	42	· LOCKWASHER, 3/8"		
19	R0808221	42	· FLATWASHER, 3/8"		
20	R4286036	1	· HARNESS ASSEMBLY, REAR COWL		
21	R4086112	1	· CLAMP, CABLE - INSULATED, 5/8"		
22	R4274558	12	· CLAMP, CABLE - INSULATED, 3/8"		
23	R4274559	27	· CLAMP, CABLE - INSULATED, 1/2"		
24	R4274557	15	· CLAMP, CABLE - INSULATED, 1/4"		
			DRAWING, REAR COWL LIGHTS GROUP (R428902401)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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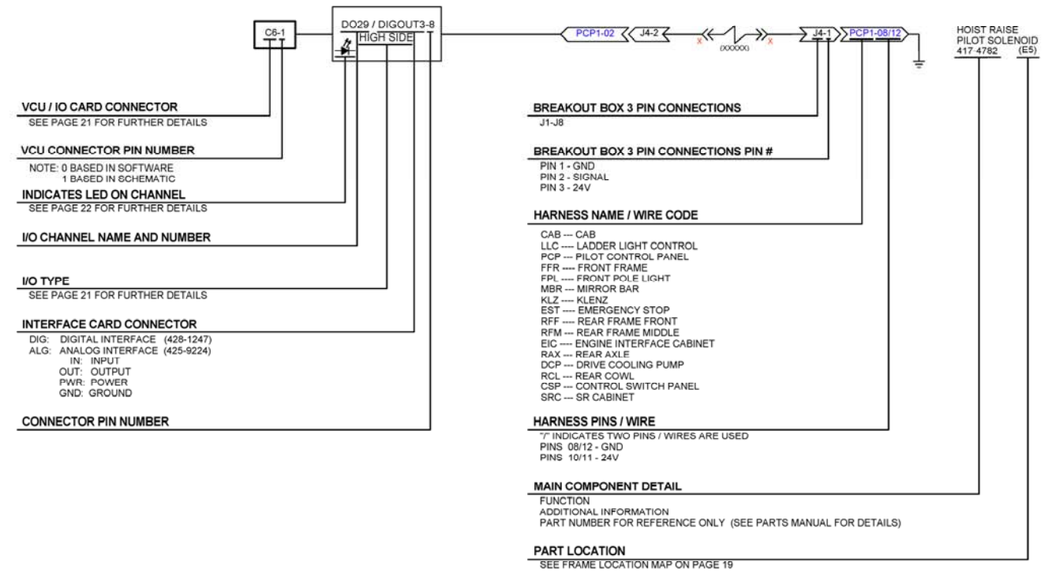
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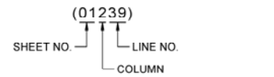
REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	SEE SHEET 9,13 & 14	1397539	2019-10-17	FL	BBD	JMS

LEGEND



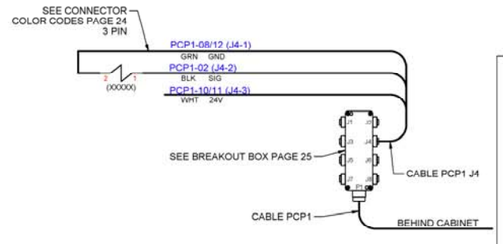
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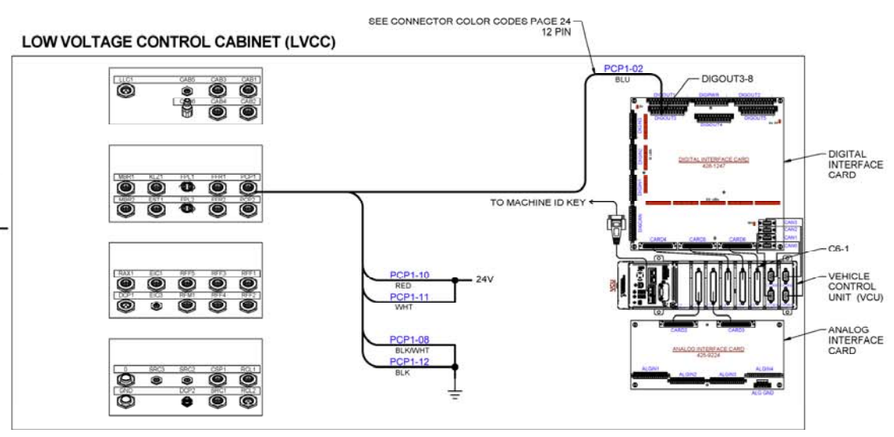
1) **COLOR CODE**
   - BLUE: WIRE CODE
   - RED: CONNECTION PIN
   - ORANGE: RPT / RTD HARNESS
   - GREEN: M/S CONNECTION & TERMINATION
   - MAGENTA: POWER / CONTROL HARNESS OR MODEL SPECIFIC
2) **CROSS REFERENCE**



3) **GROUND SYMBOLS**
   - GROUND
   - FRAME GROUND
4) **POWER FLOWS LEFT TO RIGHT**
   - OUTPUTS ON LEFT
   - INPUTS ON RIGHT
5) **MACHINE STATE:**
   - ALL LIGHTS OFF
   - BATTERIES ISOLATED
   - BATTERY PODS ISOLATED
   - E-STOP NOT PRESSED
   - FIRE SUPPRESSION NOT ACTIVE
   - FLUIDS FULL
   - FUSES NOT BLOWN
   - HV CABINET DOOR CLOSED
   - KEY SWITCHES OFF
   - PARK BRAKES ENGAGED

EXAMPLE CIRCUIT





LOADER SPECIFIC FEATURES / OPTIONS		
DDEC IV ENGINE (T1 & T2)	(SHEET 13)	
ADEC ENGINE (T2)	(SHEET 13)	
ADEC ENGINE (T4)	(SHEET 14)	✓
CUMMINS QST30 ENGINE (T2)	(SHEET 14)	
CUMMINS QSK38 ENGINE (T2)	(SHEET 14)	
CUMMINS QSK50 ENGINE (T2)	(SHEET 14)	
CUMMINS QSK60 HPI ENGINE (T1)	(SHEET 14)	
CUMMINS QSK60 MCRS ENGINE (T2)	(SHEET 14)	
AUXILIARY STEERING	(SHEET 17)	
REAR VISION CAMERA	(SHEET 17)	
HEATERS - COLD CLIMATE	(SHEET 17)	
BEACON LIGHT AMBER	(SHEET 4)	
RED DOT CLIMATE CONTROL	(SHEET 16)	
MINE AIR CLIMATE CONTROL	(SHEET 16)	

UNLESS OTHERWISE SPECIFIED TOLERANCES
DECIMAL FRACTIONAL
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DWN BY: RiverB
CHK BY: BBD
APVD BY: JMS
MATL
THIRD ANGLE PROJECTION

KOMATSU MINING CORP.

TITLE: ELECTRICAL SCHEMATIC L13502302 G3

SIZE: E | DWG NO: 4295889 | REV: 01

DO NOT SCALE | EST WT (LB): NA | SHEET 1 OF 31

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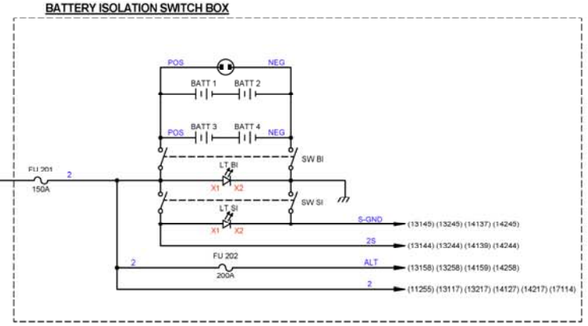
ELECTRICAL SCHEMATIC

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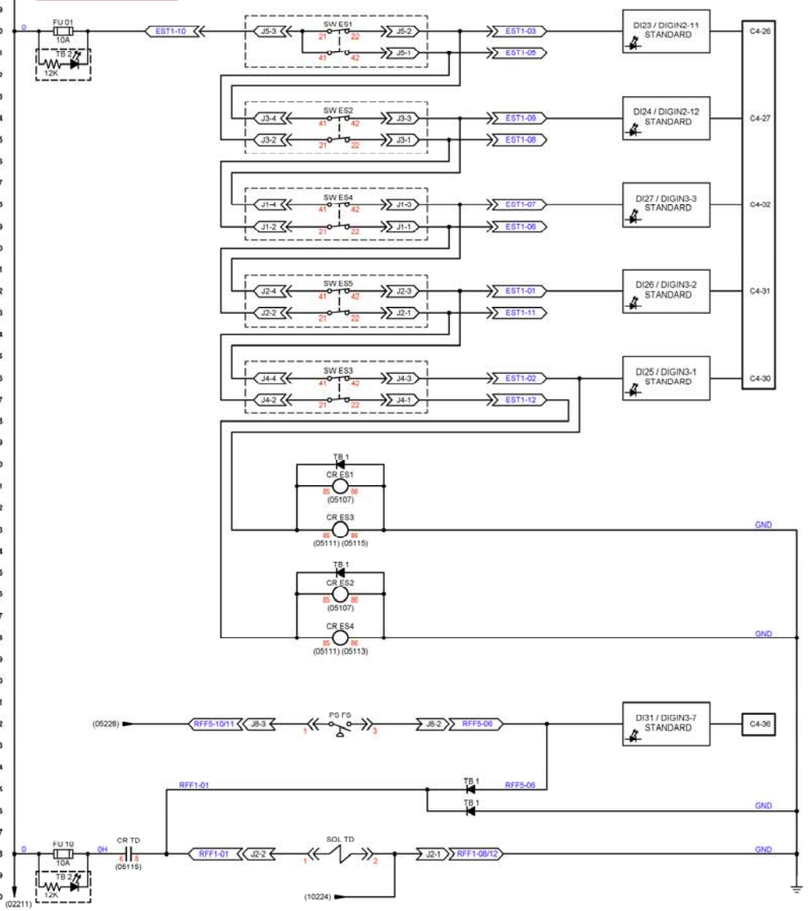
24V ELECTRICS

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

BATTERY ISOLATION SWITCH BOX



EMERGENCY STOP



BATTERY CHARGING SOCKET 416-3355 (D1)

BATTERY 1 & 2

BATTERY 3 & 4

BATTERY ISOLATION SWITCH 426-7269 (D1)

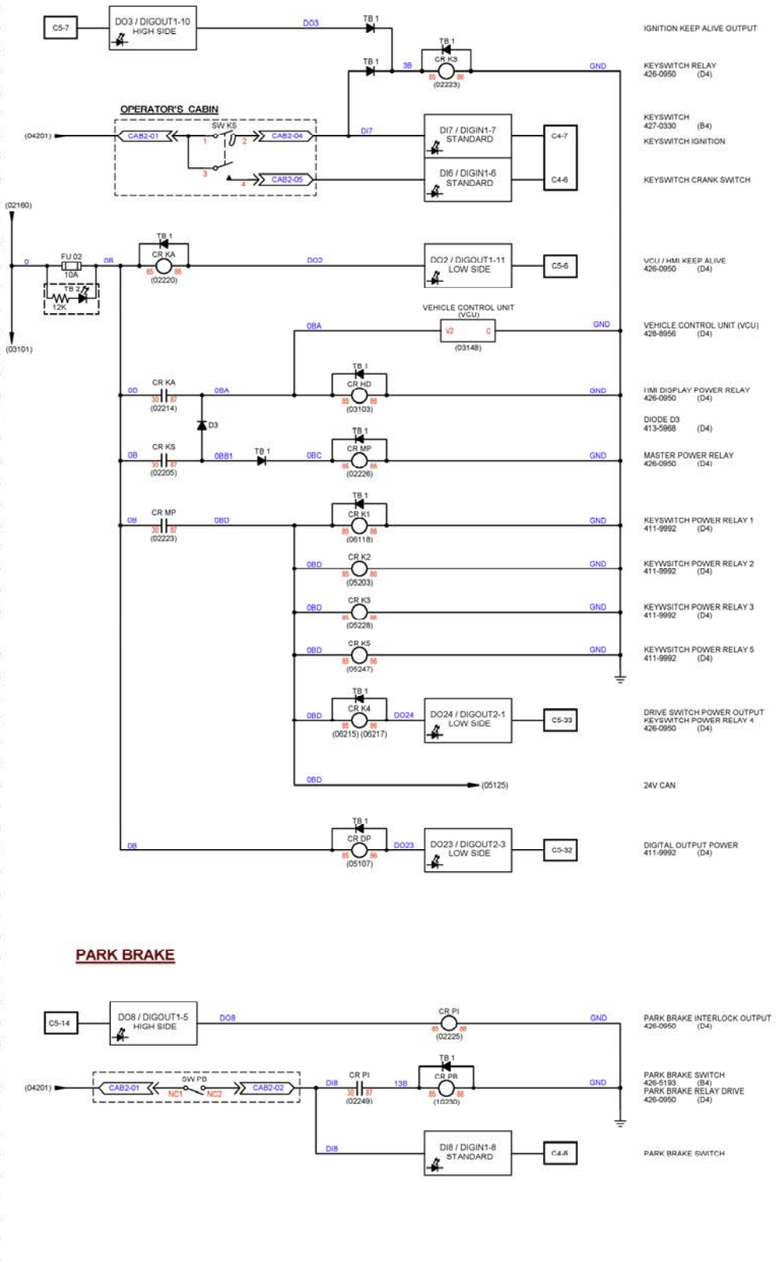
FU 201 425-6237 (E2)
LT BI 424-0049 (D1)

STARTER ISOLATION SWITCH 426-7268 (D1)

LT SI 424-0048 (D1)

FU 202 427-9013 (E2)

KEYSWITCH



PARK BRAKE

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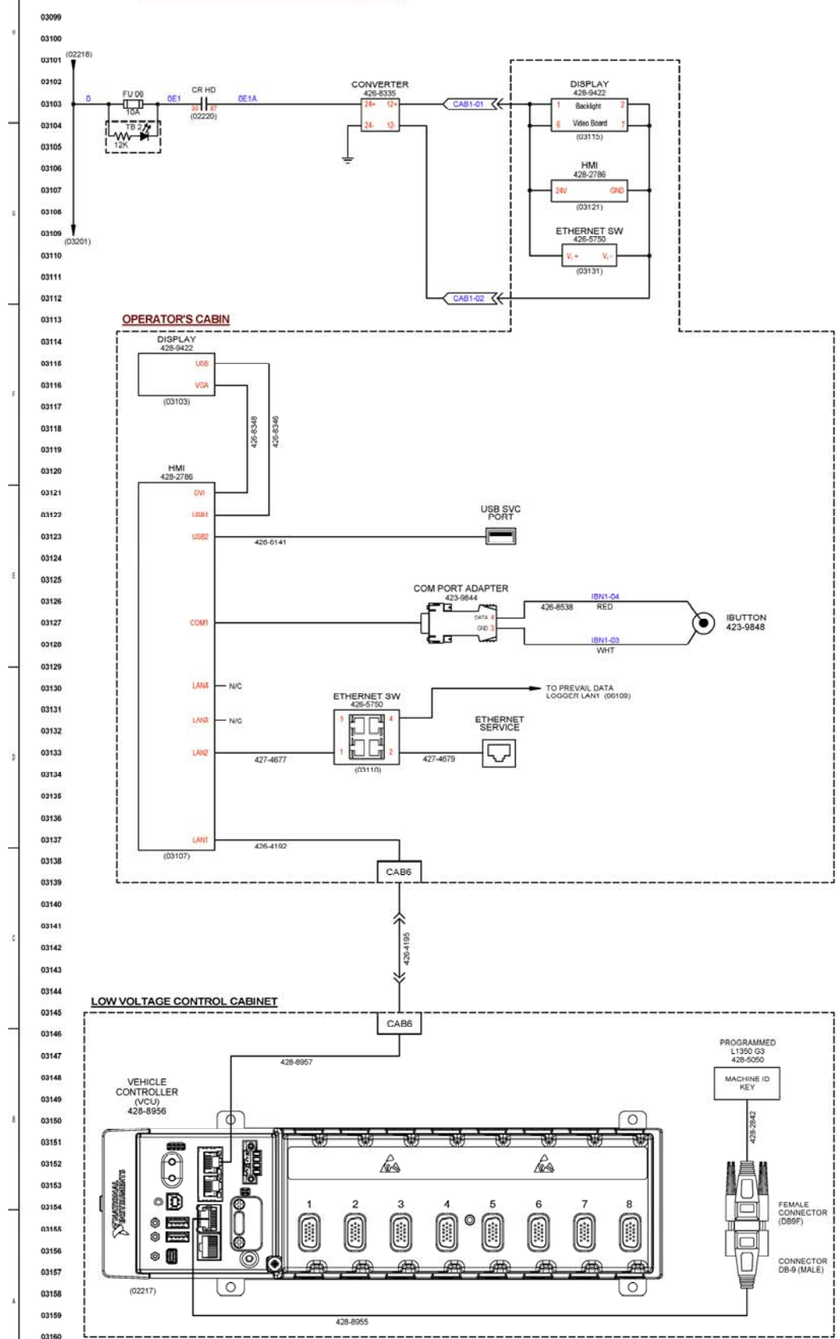
ELECTRICAL SCHEMATIC

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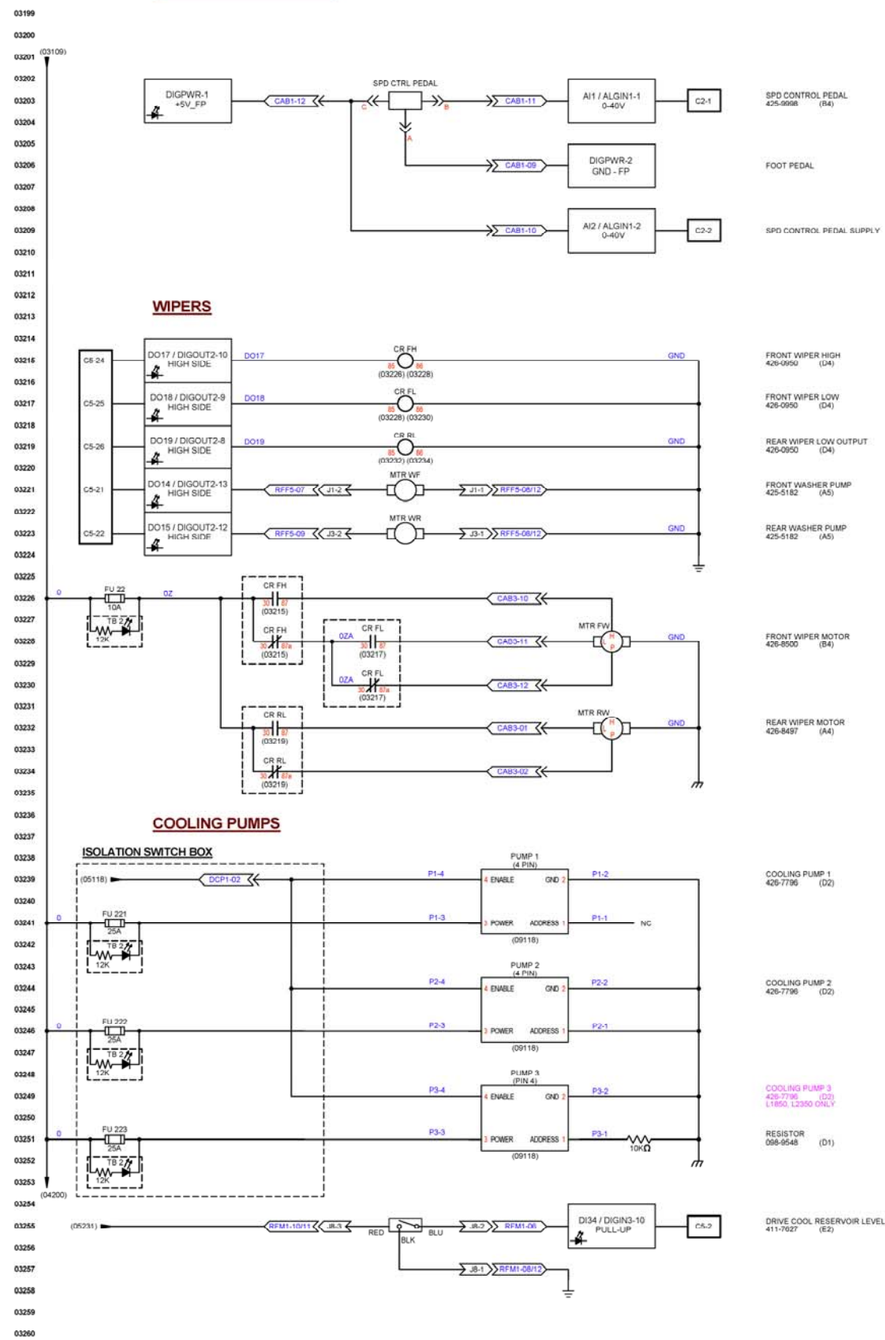
24V ELECTRICS

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
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HUMAN MACHINE INTERFACE (HMI)



SPEED CONTROL PEDAL



WIPERS

COOLING PUMPS

3

SIZE	ITEM NO	DWG NO	REV
E		4295889	01
DO NOT SCALE	DST WT (LB): NA	SHEET 1 OF 21	

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ELECTRICAL SCHEMATIC

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24V ELECTRICS

REVISION HISTORY							
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	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

LIGHTS & ALARMS

DO4 / DIGOUT1-9 HIGH SIDE — C5-8 — DO4 — CR L1A (04234) / CR L1B (04238) — GND
POLE WORK LIGHTS LEFT 426-0950 (D4)

DO5 / DIGOUT1-8 HIGH SIDE — C5-11 — DO5 — CR L2 (04242) / CR L3 (04249) — GND
POLE WORK LIGHTS RIGHT 426-0950 (D4)
CAB LIGHT BAR LIGHTS LEFT 426-0950 (D4)
CAB LIGHT BAR LIGHTS RIGHT 426-0950 (D4)

DO7 / DIGOUT1-6 HIGH SIDE — C5-13 — DO7 — CR L4 (04256) — GND
REAR COWL LIGHTS 426-0950 (D4)

DO9 / DIGOUT1-4 HIGH SIDE — C6-16 — CAB2-07 — LT AL1 — CAB2-06 — GND
RED ALARM LIGHT 424-0170 (B5)

DO10 / DIGOUT1-3 HIGH SIDE — C5-16 — CAB2-08 — LT AL2
YELLOW WARNING LIGHT 424-0171 (B4)

DO11 / DIGOUT1-2 HIGH SIDE — C5-17 — CAB2-03 — ALM AU
CAB AUDIBLE ALARM 409-4849 (B4)

DO16 / DIGOUT2-11 HIGH SIDE — C5-23 — CAB2-09 — LT PB1 (X1 X2)
PARK BRAKE SWITCH LIGHT 426-5193 (B4)

DO37 / DIGOUT4-12 HIGH SIDE — C6-11 — DO37 — MBR1-01 — LT TL1 — MBR1-02
LEFT TURN SIGNAL FRONT 426-4984 (B5)
RCL1-10 — LT TL2 — RCL1-05/06 — RCL1-05 — GND
LEFT TURN SIGNAL REAR 425-3924 (D1)

DO38 / DIGOUT4-11 HIGH SIDE — C6-12 — DO38 — MBR2-01 — LT TR1 — MBR2-02
RIGHT TURN SIGNAL FRONT 426-4984 (B4)
RCL1-03 — LT TR2 — RCL1-05/06 — RCL1-06
RIGHT TURN SIGNAL REAR 425-3924 (E1)

DO27 / DIGOUT3-10 HIGH SIDE — C5-36 — RCL1-04 — LT TA1 / LT TA2
TAIL LIGHTS LEFT 424-5975 (D1)
TAIL LIGHTS RIGHT 424-5975 (E1)

DO58 / DIGOUT5-3 HIGH SIDE — C6-35 — DO58 — RCL1-07 — LT BU1 — RCL1-05/06
(17158) — LT BU2 — ALM BU (HW)
BACKUP LIGHT LEFT 424-5974 (D1)
BACKUP LIGHT RIGHT 424-5974 (E1)
BACKUP ALARM 426-6064 (D1)

DO35 / DIGOUT3-2 HIGH SIDE — C6-7 — DO35 — CR BL (04209) — GND
BEACON 426-0950 (D4)

LIGHTS & ALARMS (cont)

(03253)

FU 25 10A — 0X — CAB2-01 — (0ZZ08) (0ZZ52)
CAB3-09 — LT CA1 — SWRTN — SW CA1 — GND
LT CA2 — SW CA2
SW CA3 — GND
CAB INTERIOR LIGHTS 424-5974 (A5) SW CA1 427-0329 (A4)
CAB INTERIOR LIGHTS 424-5974 (A4) SW CA2 426-8367 (A5)
SW CA3 426-8357 (B4)

OPERATOR'S CABIN: SW HRN — CAB2-10 — CAB2-11 — MBR2-11 — HORN — MBR2-12 — GND
HORN 427-0005 (B5) SW HORN 428-9009 (B4)

FU28 10A — 01 — CR BL (04144) — MBR2-09 — MBR2-10 — GND
BEACON LIGHT (OPT) (B4)

FU13 5A — CSP1-09 — SW LL1 — CSP1-06 — 0JA — LLC1-01 — SW LL2 — LLC1-02 — TB1 CR LL (04217) — GND
CSP1-12 — 0JB — LLC1-03
LADDER LIGHT CONTROL RELAY 426-0950 (D4) SW LL1 405-0189 (D1) SW LL2 425-3960 (A5)
SW ML — CSP1-07 — TB1 CR ML (04ZZ1) — GND
MAINTENANCE LIGHT RELAY 426-0950 (D4) SW ML 403-1378 (D1)

FU14 10A — 0K — CR LL (04212) — 0KA — MBR1-11 — LT LL3 — LT LL1 — LT LL4 — LT LL2 — MBR1-12 — GND
HOOD LIGHT 429-2884 (A5)
LADDER LIGHT FRONT 429-2884 (A5)
RCL2-02 — RCL2-01
HYD TANK LADDER LIGHT 429-2884 (A5)
LADDER LIGHT REAR 429-2884 (D1)

FU 15 10A — 0L — CR ML (04215) — 0LA — FU 109 5A — 0LB — FFR1-09 — J3-2 — LT MT1 — J3-1 — FFR1-08/12 — GND
MAINTENANCE LIGHT LEFT FRONT 429-2884 (D5)
FFR2-01 — J2-2 — LT MT2 — J2-1 — FFR2-08/12
MAINTENANCE LIGHT RIGHT FRONT 429-2884 (E5)

0LA — FU 110 5A — 0LC — RFM1-09 — J3-2 — LT MT3 — J3-1 — RFM1-08/12 — GND
MAINTENANCE LIGHT MIDDLE LEFT 429-2884 (D4)
RFF2-02 — J4-2 — LT MT4 — J4-1 — RFF2-08/12
MAINTENANCE LIGHT MIDDLE RIGHT 429-2884 (D4)

0LA — FU 111 5A — RCL1-08 — LT MT5 — LT MT6 — LT MT7 — RCL1-09 — GND
MAINTENANCE LIGHT LEFT REAR 429-2884 (D2)
MAINTENANCE LIGHT RIGHT REAR 429-2884 (E2)
MAINTENANCE LIGHT RIGHT HOOD 429-2884 (E2)

FU 16 15A — 0M — CR L1A (04103) — 0MA — FPL1-01 — LT FP1 — FPL1-02 — GND
POLE WORK LT (NARROW FLOOD) LEFT 429-2885 (C5)
FPL1-03 — LT FP2 — FPL1-04
POLE WORK LT (NARROW FLOOD) LEFT 429-2885 (C5)

FU 17 15A — 0N — CR L1B (04105) — 0NA — FPL2-01 — LT FP3 — FPL2-02 — GND
POLE WORK LT (NARROW FLOOD) RIGHT 429-2885 (F5)
FPL2-03 — LT FP4 — FPL2-04
POLE WORK LT (NARROW FLOOD) RIGHT 429-2885 (F5)

FU 18 25A — 0P — CR L2 (04107) — 0PA — MBR1-03 — LT MB1 — MBR1-04 — GND
CAB LIGHT BAR LT (MEDIUM FLOOD) LEFT 429-2886 (B5)
MBR1-05 — LT MB2 — MBR1-06
CAB LIGHT BAR LT (NARROW FLOOD) LEFT 429-2885 (B5)
MBR1-07 — LT MB3 — MBR1-08
CAB LIGHT BAR LT (NARROW FLOOD) LEFT 429-2885 (B5)
LT MB7
CAB LIGHT BAR LT (PERIPHERAL) LEFT 429-2886 (B5)

FU 19 25A — 0R — CR L3 (04109) — 0RA — MBR2-03 — LT MB4 — MBR2-04 — GND
CAB LIGHT BAR LT (MEDIUM FLOOD) RIGHT 429-2886 (B4)
MBR2-05 — LT MB5 — MBR2-06
CAB LIGHT BAR LT (NARROW FLOOD) RIGHT 429-2885 (B4)
MBR2-07 — LT MB6 — MBR2-08 — GND
CAB LIGHT BAR LT (NARROW FLOOD) RIGHT 429-2885 (B4)
LT MB8
CAB LIGHT BAR LT (PERIPHERAL) RIGHT 429-2886 (B5)

FU 20 15A — 0S — CR L4 (04111) — 0SA — RCL1-11 — LT RC1 — RCL1-12 — GND
REAR COWL LT (MEDIUM FLOOD) LEFT 429-2886 (D1)
RCL1-01 — LT RC2 — RCL1-02 — GND
REAR COWL LT (MEDIUM FLOOD) RIGHT 429-2886 (E1)
(05101)

4

DWG NO 4295889 REV 01 — SHEET 4 OF 21

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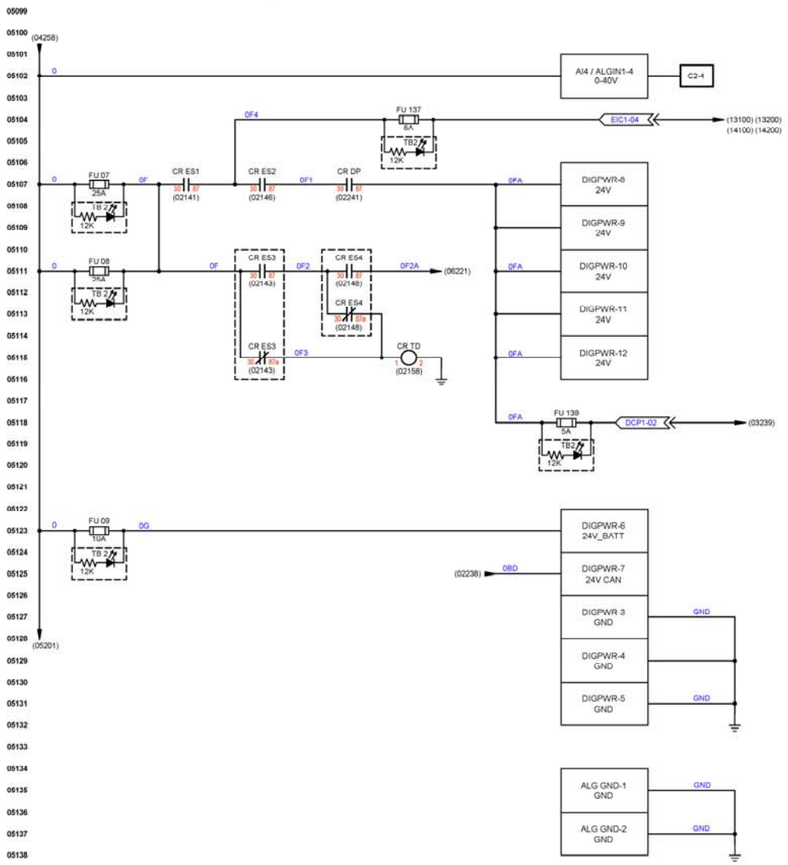
ELECTRICAL SCHEMATIC

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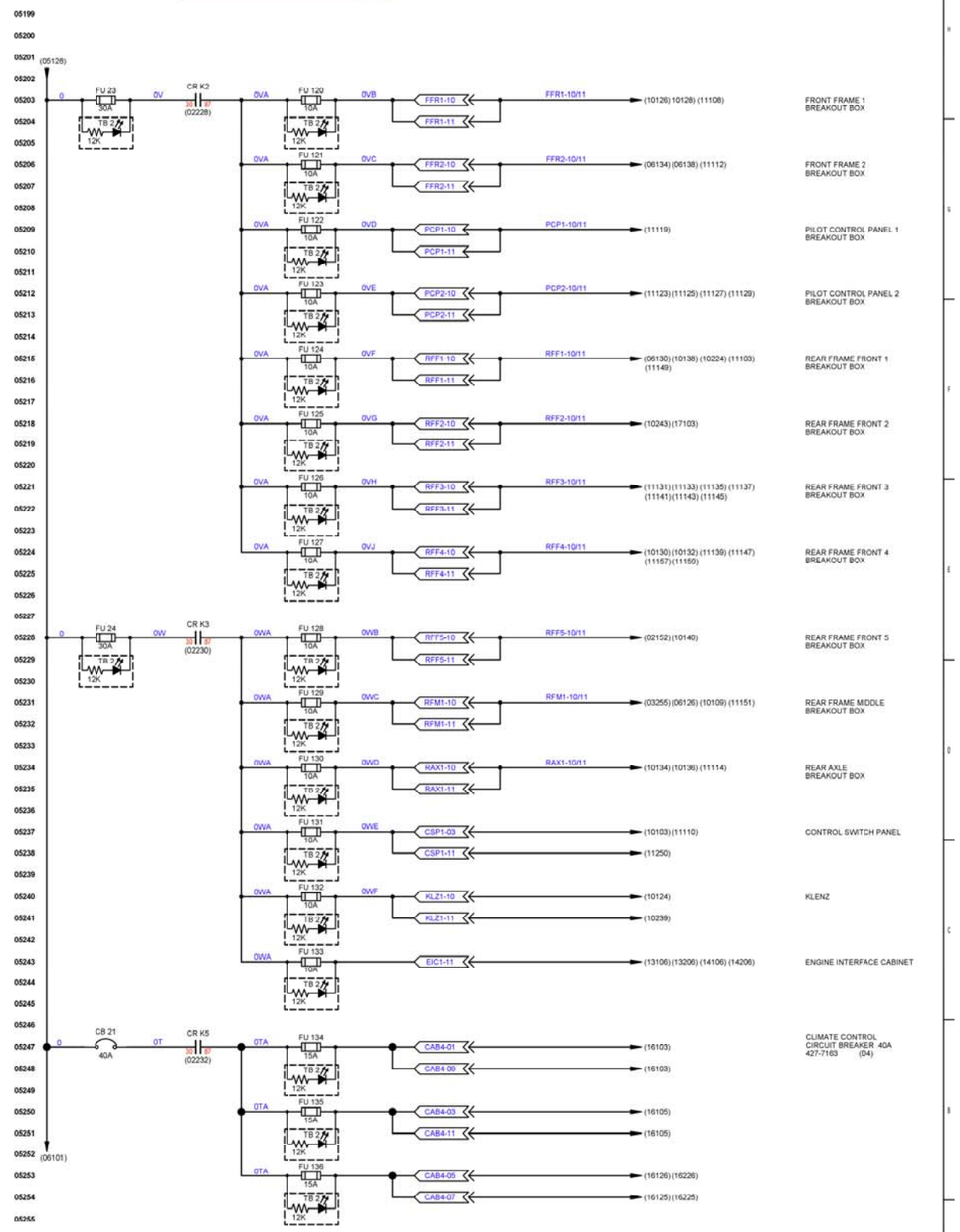
24V ELECTRICS

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

POWER DISTRIBUTION



POWER DISTRIBUTION (cont)



5

SIZE	ITEM NO	DWG NO	REV
E		4295889	01
DO NOT SCALE	DST WT (LB) NA	SHEET 5 OF 21	

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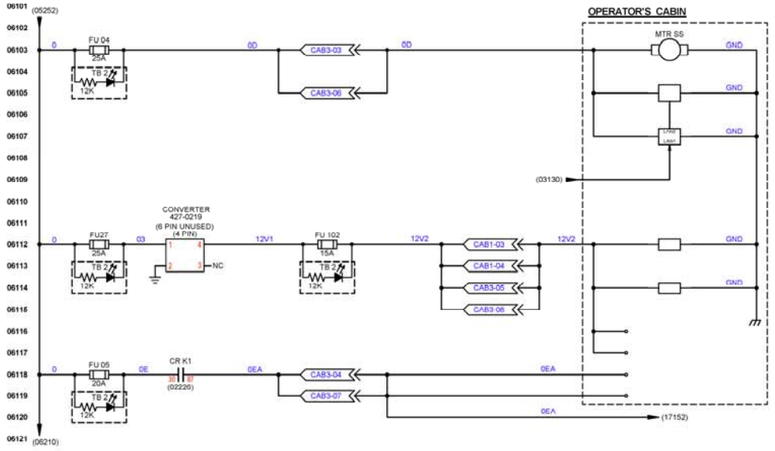
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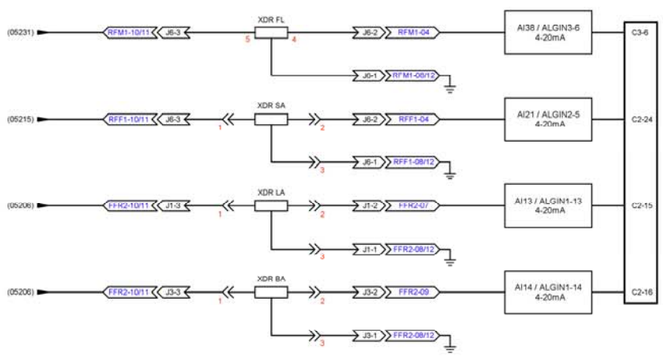
24V ELECTRICS

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
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DEALER OPTIONS



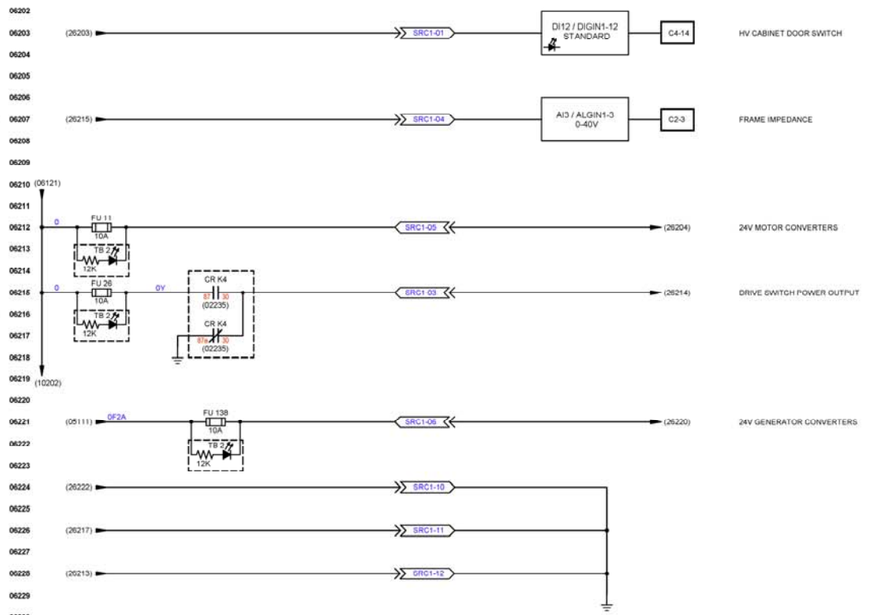
POSITION SENSORS



SPEED SENSORS



DRIVE SYSTEM INTERFACE



6

DATE	ITEM NO	DWG NO	REV
E		4295889	01
DO NOT SCALE	DST WT (LB): NA	SHEET 6 OF 31	

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24V ELECTRICS

REVISION HISTORY							
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	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

SPARE I/O - ANALOG INPUT

	AI5 / ALGIN1-5 0-40V	C2-5	UNUSED
	AI6 / ALGIN1-6 0-40V	C2-6	UNUSED
	AI7 / ALGIN1-7 0-40V	C2-7	UNUSED
	AI8 / ALGIN1-8 0-40V	C2-8	UNUSED
	AI9 / ALGIN1-9 0-40V	C2-11	UNUSED
	AI15 / ALGIN1-15 4-20mA	C2-17	UNUSED
J4-2 FFR2-02	AI40 / ALGIN3-8 4-20mA	C3-8	UNUSED
J8-2 FCP1-06	AI42 / ALGIN3-10 4-20mA	C3-12	UNUSED
J4-2 RFF5-02	AI44 / ALGIN3-12 4-20mA	C3-14	RESERVED
J5-2 RFF5-04	AI45 / ALGIN3-13 4-20mA	C3-15	RESERVED
	AI46 /ALGIN3-14 4-20mA	C3-16	UNUSED
	AI47 / ALGIN3-15 4-20mA	C3-17	UNUSED
	AI48 / ALGIN3-16 4-20mA	C3-18	UNUSED
	AI49 / ALGIN4-1 4-20mA	C3-20	UNUSED
	AI50 / ALGIN4-2 4-20mA	C3-21	UNUSED
	AI51 /ALGIN4-3 4-20mA	C3-22	UNUSED
	AI52 / ALGIN4-4 4-20mA	C3-23	UNUSED
	AI53 / ALGIN4-5 4-20mA	C3-24	UNUSED
	AI54 / ALGIN4-6 4-20mA	C3-25	UNUSED
	AI55 / ALGIN4-7 4-20mA	C3-26	UNUSED
	AI56 / ALGIN4-8 4-20mA	C3-27	UNUSED
	AI57 / ALGIN4-9 4-20mA	C3-30	UNUSED
	AI58 / ALGIN4-10 4-20mA	C3-31	UNUSED
	AI59 / ALGIN4-11 4-20mA	C3-32	UNUSED

SPARE I/O ANALOG INPUT (cont)

	AI60 / ALGIN4-12 4-20mA	C3-33	UNUSED
	AI61 / ALGIN4-13 4-20mA	C3-34	UNUSED
	AI62 / ALGIN4-14 4-20mA	C3-35	UNUSED
	AI63 /ALGIN4-15 4-20mA	C3-36	UNUSED
	AI64 / ALGIN4-16 4-20mA	C3-37	UNUSED

SPARE I/O DIGITAL INPUT

	DI1 / DIGIN1-1 HMI POWER	C4-1	UNUSED
	DI4 / DIGIN1-4 FREQUENCY	C4-4	UNUSED
	DI5 / DIGIN1-5 STANDARD	C4-5	UNUSED
	DI9 / DIGIN1-9 STANDARD	C4-11	UNUSED
	DI13 / DIGIN2-1 STANDARD	C4-15	UNUSED
	DI16 / DIGIN2-4 STANDARD	C4-18	UNUSED
	DI17 / DIGIN2-5 STANDARD	C4-20	UNUSED
	DI18 / DIGIN2-6 STANDARD	C4-21	UNUSED
	DI28 / DIGIN3-4 STANDARD	C4-33	UNUSED
	DI30 / DIGIN3-6 STANDARD	C4-35	UNUSED
	DI32 / DIGIN3-8 STANDARD	C4-37	UNUSED

SPARE I/O DIGITAL OUTPUT

C5-5	DO1 / DIGOUT1-13 LOW SIDE		UNUSED
C5-12	DO6 / DIGOUT1-7 HIGH SIDE	RFF4-06 J8-2	
C5-18	DO12 / DIGOUT1-1 HIGH SIDE		UNUSED
C5-20	DO13 / DIGOUT2-14 HIGH SIDE		UNUSED
C5-27	DO20 / DIGOUT2-7 HIGH SIDE		UNUSED
C5-35	DO26 / DIGOUT3-11 HIGH SIDE		UNUSED
C6-5	DO33 / DIGOUT3-4 HIGH SIDE		UNUSED
C6-6	DO34 / DIGOUT3-3 HIGH SIDE		UNUSED
C6-21	DO46 / DIGOUT4-3 HIGH SIDE		UNUSED
C6-22	DO47 / DIGOUT4-2 HIGH SIDE		UNUSED
C6-24	DO49 / DIGOUT5-12 HIGH SIDE		UNUSED
C6-30	DO53 / DIGOUT5-8 HIGH SIDE		UNUSED
C6-32	DO55 / DIGOUT5-6 HIGH SIDE		UNUSED
C6-36	DO59 / DIGOUT5-2 HIGH SIDE		UNUSED
C6-37	DO60 / DIGOUT5-1 HIGH SIDE		UNUSED
	DIGOUT1-12 LOW PWR		UNUSED
	DIGOUT1-14 LOW PWR		UNUSED
	DIGOUT2-2 LOW PWR		UNUSED
	DIGOUT2-4 LOW PWR		UNUSED

SIZE E | DWG NO 4295889 | REV 01 | UNLESS SCALE | SHEET 7 OF 21

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ELECTRICAL SCHEMATIC

REVISION HISTORY							
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BLANK

8

SIZE	DWG NO	REV
E	4295889	01
DO NOT SCALE	SHEET 6 OF 31	

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CAN

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
-	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
E1	01	REMOVE 120Ω RESISTOR AT COOLING PUMP 3	1397539	2019-10-17	FL	BBD	JMS

CAB

CAN 0

C7CAN0-2 — DIGCAN-1 CAN LOW — CAB5-05
C7CAN0-7 — DIGCAN-2 CAN HIGH — CAB5-04
C7CAN0-3 — DIGCAN-3 GND — CAB5-01, CAB5-03
C7CAN0-6 — DIGCAN-4 24V CAN — CAB5-02
C7CAN0-9 — +15V *

OPERATOR'S CABIN

KEYPAD 426-4118 (1 2 3 4)
JOYSTICK LEFT 428-9428 (1 2 3 4 5)
JOYSTICK RIGHT 428-9429 (1 2 3 4 5)
120Ω
RESISTOR 426-6254 (A4)

ENGINE / COOLING PUMP / STEER ACTUATOR

CAN 1

C7CAN1-2 — DIGCAN-5 CAN LOW — EIC3-05 — EIC3-05
C7CAN1-7 — DIGCAN-6 CAN HIGH — EIC3-04 — EIC3-04
C7CAN1-3 — DIGCAN-7 GND — EIC3-01 — EIC3-01
C7CAN1-6 — EIC3-03
C7CAN1-9 — DIGCAN-8 24V CAN — D_CAN-08 — CR 5A (09134) — EIC3-02
C7CAN0-9 — +15V *

STEER ACTUATOR 429-0000 (1 2 3 4)
COOLING PUMP 1 6 PIN (03239) (1 2 6)
COOLING PUMP 2 6 PIN (03244) (1 2 6)
COOLING PUMP 3 6 PIN (03240) L1850, L2350 ONLY (1 2 6)

(13139) (13239) (14134) (14239)
(13140) (13240) (14135) (14240)
(13141) (13241) (14136) (14241)

C5-37 — DO28 / DIGOUT3-9 HIGH SIDE — DO28 — CR 5A (09218)

STEER ACTUATOR POWER RELAY 426-0950 (D4)

DRIVE SYSTEM

BUS 1 — CAN 2

C8CAN0-2 — DIGCAN-9 CAN LOW — SRC2-05 — CAN1_LOW (26228)
C8CAN0-7 — DIGCAN-10 CAN HIGH — SRC2-04 — CAN1_HIGH (26226)
C8CAN0-3 — DIGCAN-11 GND — SRC2-01 — CAN1_GND (26230)
C8CAN0-6 — DIGCAN-12 24V CAN
C8CAN0-9 — +15V *

BUS 2 — CAN 3

C8CAN1-2 — DIGCAN-13 CAN LOW — SRC3-05 — CAN2_LOW (26240)
C8CAN1-7 — DIGCAN-14 CAN HIGH — SRC3-04 — CAN2_HIGH (26238)
C8CAN1-3 — DIGCAN-15 GND — SRC3-01 — CAN2_GND (26242)
C8CAN1-6 — DIGCAN-16 24V CAN
C8CAN1-9 — +15V *

* +15V SUPPLIED FROM DIGITAL INTERFACE CARD

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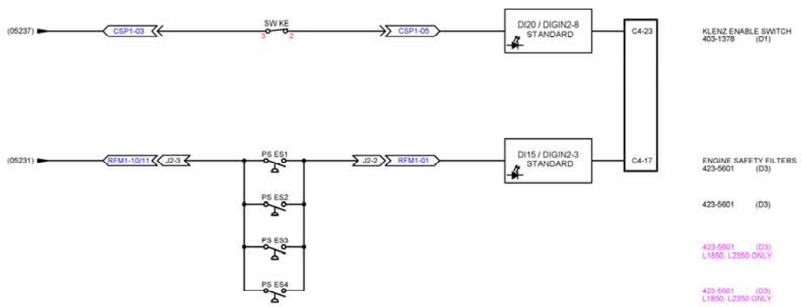
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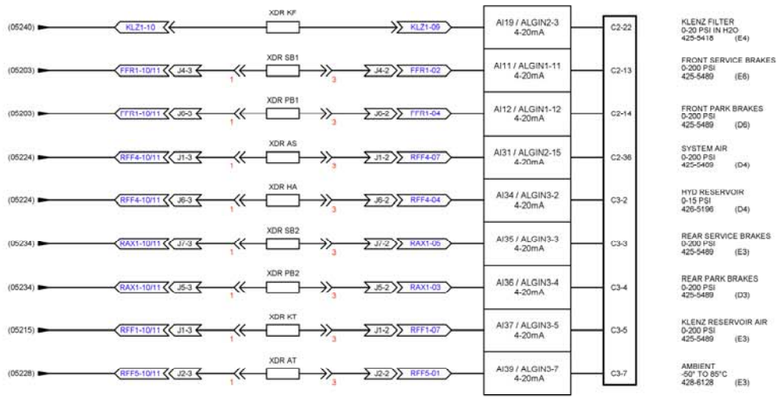
AIR

REVISION HISTORY							
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	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

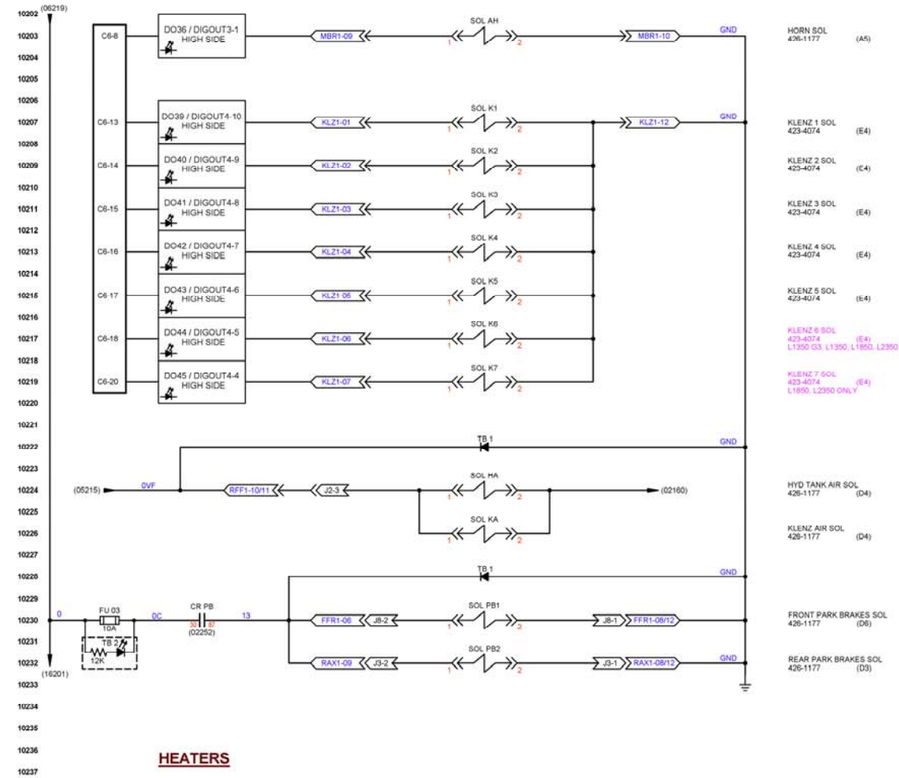
SWITCHES



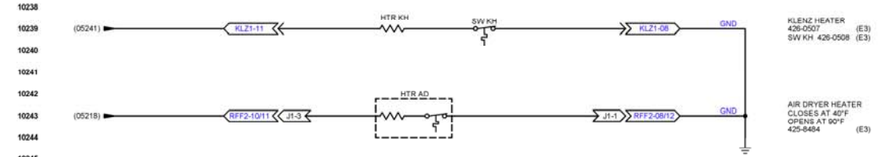
TRANSDUCERS



SOLENOIDS



HEATERS



10

SIZE	DWG NO	REV
E	4295889	01
DO NOT SCALE	SHT WT (LB) NA	SHEET 10 OF 21

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HYDRAULICS

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

SWITCHES

(05215) RFF1-10/11 J7-3 — RED / BLK / BLU — J7-2 RFF1-05 → DI35 / DIGIN3-11 PULL-UP → C5-3
J7-1 RFF1-08/12

HYD RESERVOIR LEVEL SWITCH
411-7627 (E4)

(00203) FFR1-10/11 J1-3 — SW AL1 — J1-2 FFR1-07 → DI10 → DI10 / DIGIN1-10 STANDARD → C4-12

AUTOLUBE SWITCHES
SW AL1 423-4957 (E6)

(05237) CSP1-03 — SW AL2 — CSP1-04

SW AL2 403-1377 (D1)

(05206) FFR2-10/11 J7-3 — J7-2 FFR2-05 → DI11 / DIGIN1-11 STANDARD → C4-13

FRONT DRIVER LUBE FLOW SWITCHES
427-0058 (D5)
427-0058 (E5)
L1350 G3, L1350, L1850, L2350 ONLY

(05234) RAX1-10/11 J1-3 — J1-2 RAX1-07 → DI19 / DIGIN2-7 STANDARD → C4-22

REAR DRIVER LUBE FLOW SWITCHES
427-0058 (D2)
427-0058 (E2)
L1350 G3, L1350, L1850, L2350 ONLY

TRANSDUCERS

(05209) PCP1-10/11 J6-3 — XDR BR — J6-2 PCP1-04 → AI43 / ALGIN3-11 4-20mA → C3-13

BUCKET CYL ROD
0-5000 PSI
425-5491 (E5)

(05212) PCP2-10/11 J4-3 — XDR PS — J4-2 PCP2-02 → AI16 / ALGIN1-16 4-20mA → C2-18

PILOT SUPPLY
0-1500 PSI
425-5490 (E5)

(05212) PCP2-10/11 J1-3 — XDR PP — J1-2 PCP2-07 → AI17 / ALGIN2-1 4-20mA → C2-20

GREATEST PILOT CMD
0-1500 PSI
425-5490 (E5)

(05212) PCP2-10/11 J3-3 — XDR LW — J3-2 PCP2-09 → AI18 / ALGIN2-2 4-20mA → C2-21

HOIST CYL BASE
0-5000 PSI
425-5491 (E5)

(05212) PCP2-10/11 J7-3 — XDR HR — J7-2 PCP2-05 → AI41 / ALGIN3-9 4-20mA → C3-11

HOIST CYL ROD
0-5000 PSI
425-5491 (E5)

(05221) RFF3-10/11 J7-3 — XDR FH — J7-2 RFF3-05 → AI22 / ALGIN2-6 4-20mA → C2-25

FAST HOIST PUMP
0-5000 PSI
425-5491 (E4)

(05221) RFF3-10/11 J5-3 — XDR BH1 — J5-2 RFF3-03 → AI23 / ALGIN2-7 4-20mA → C2-26

HOIST / BUCKET PUMP A
0-5000 PSI
425-5491 (E4)

(05221) RFF3-10/11 J3-3 — XDR BH2 — J3-2 RFF3-09 → AI24 / ALGIN2-8 4-20mA → C2-27

HOIST / BUCKET PUMP B
0-5000 PSI
425-5491 (E4)

(05221) RFF3-10/11 J1-3 — XDR BH3 — J1-2 RFF3-07 → AI25 / ALGIN2-9 4-20mA → C2-30

HOIST / BUCKET PUMP C
0-5000 PSI
425-5491
L1350 G3, L1850, L2350 ONLY

(05224) RFF4-10/11 J5-3 — XDR BP — J5-2 RFF4-03 → AI26 / ALGIN2-10 4-20mA → C2-31

BLOWER PUMP
0-5000 PSI
425-5491 (D4)

(05221) RFF3-10/11 J4-3 — XDR SP1 — J4-2 RFF3-02 → AI27 / ALGIN2-11 4-20mA → C2-32

STEER PUMP A
0-5000 PSI
425-5491 (E4)

(05221) RFF3-10/11 J6-3 — XDR SP2 — J6-2 RFF3-04 → AI28 / ALGIN2-12 4-20mA → C2-33

STEER PUMP B
0-5000 PSI
425-5491
L1350 G3, L1350, L1850, L2350 ONLY

(05221) RFF3-10/11 J2-3 — XDR AP — J2-2 RFF3-01 → AI29 / ALGIN2-13 4-20mA → C2-34

ACCESSORY PUMP
0-5000 PSI
425-5491 (E4)

(05224) RFF4-10/11 J3-3 — XDR FP — J3-2 RFF4-09 → AI30 / ALGIN2-14 4-20mA → C2-35

RADIATOR FAN PUMP
0-5000 PSI
425-5491 (D4)

(05215) RFF1-10/11 J5-3 — XDR HT — J5-2 RFF1-03 → AI20 / ALGIN2-4 4-20mA → C2-23

HYD RESERVOIR OIL
-13 TO 212° F
425-6107 (E4)

(05231) RFM1-10/11 J7-3 — XDR AL — J7-2 RFM1-05 → AI10 / ALGIN1-10 4-20mA → C2-12

AUTOLUBE GREASE
0-5000 PSI
425-5491 (E6)

(05224) RFF4-10/11 J2-3 — XDR GT — J2-2 RFF4-01 → AI32 / ALGIN2-16 4-20mA → C2-37

HPD GEARBOX OIL
-13 TO 212° F
425-6107 (D4)

(05224) RFF4-10/11 J4-3 — XDR GP — J4-2 RFF4-02 → AI33 / ALGIN3-1 4-20mA → C3-1

HPD GEARBOX
0-200 PSI
425-5489 (D4)

SOLENOIDS

C6-1 DO29 / DIGOUT3-8 HIGH SIDE — PCP1-02 J4-2 — SOL HU — J4-1 PCP1-08/12

HOIST RAISE PILOT SOL
417-4780 (E5)

C6-4 DO32 / DIGOUT3-5 HIGH SIDE — PCP1-01 J2-2 — SOL HD — J2-1 PCP1-08/12

HOIST LOWER PILOT SOL
417-4782 (E5)

C6-3 DO31 / DIGOUT3-6 HIGH SIDE — PCP1-07 J1-2 — SOL RB — J1-1 PCP1-08/12

BUCKET ROLLBACK PILOT SOL
417-4782 (E5)

C6-2 DO30 / DIGOUT3-7 HIGH SIDE — PCP1-09 J3-2 — SOL DB — J3-1 PCP1-08/12

BUCKET DUMP PILOT SOL
417-4782 (E5)

C5-34 DO25 / DIGOUT3-12 HIGH SIDE — PCP2-04 J6-2 — SOL SD — J6-1 PCP2-08/12

DUMP PRESS REDUCING SOL
424-4836 (E5)

C5-31 DO22 / DIGOUT2-5 HIGH SIDE — PCP2-06 J8-2 — SOL FD — J8-1 PCP2-08/12

FLOAT SOL
424-4836 (E5)
L1350 G3, L1350, L1850, L2350 ONLY

C6-30 DO21 / DIGOUT2-6 HIGH SIDE — FFR1-03 J6-2 — SOL AL — J6-1 FFR1-08/12

AUTOLUBE SOL
425-5111 (E6)

C6-25 DO50 / DIGOUT5-11 HIGH SIDE — RFF3-06 J8-2 — SOL OB — J8-1 RFF3-08/12

OIL COOLER BYPASS SOL
424-4836 (E4)

C6-26 DO51 / DIGOUT5-10 HIGH SIDE — RFF1-06 J8-2 — SOL AF — J8-1 RFF1-08/12

AUX OIL COOLER FAN ENABLE SOL
424-4836

AUX OIL COOLER FAN SPEED SENSOR
45 PULSES PER ROTATION
429-7540 (C1)
L1350 G3, L1350, L1850, L2350 ONLY

C5-27 DO52 / DIGOUT5-9 HIGH SIDE — RFF2-01 J2-2 — SOL RF — J2-1 RFF2-08/12

RADIATOR FAN CONTROL SOL
424-4836 (E3)

C6-34 DO57 / DIGOUT5-4 HIGH SIDE — RFF5-05 J7-2 — SOL BF — J7-1 RFF5-08/12

BLOWER CONTROL SOL
424-4836 (D3)

LADDER

ISOLATION SWITCH BOX

(05238) CSP1-11 — 10KΩ — 02A — CSP2-01 — CSP2-03 — CSP2-02 — CSP1-10 → DI22 / DIGIN2-10 STANDARD → C4-25

02B — SW LP

LADDER RESISTOR
888-9548 (D1)

LADDER POSITION SWITCH
L1350 G3, L1350, L1850, L2350 ONLY

(02111) FUSE 250A — LADDER 24V GND

FUSE 250A
425-8663
L1350 G3, L1350, L1850, L2350 ONLY
SUPPLIED WITH THE LADDER

11

SIZE	SYM TO	DWG NO	REV
E		4295889	01

SCALE NTS | WT (LB) NA | SHEET 11 OF 21

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REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

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12

SIZE	DWG NO	REV
E	4295889	01
DO NOT SCALE	SHEET 1 OF 1	

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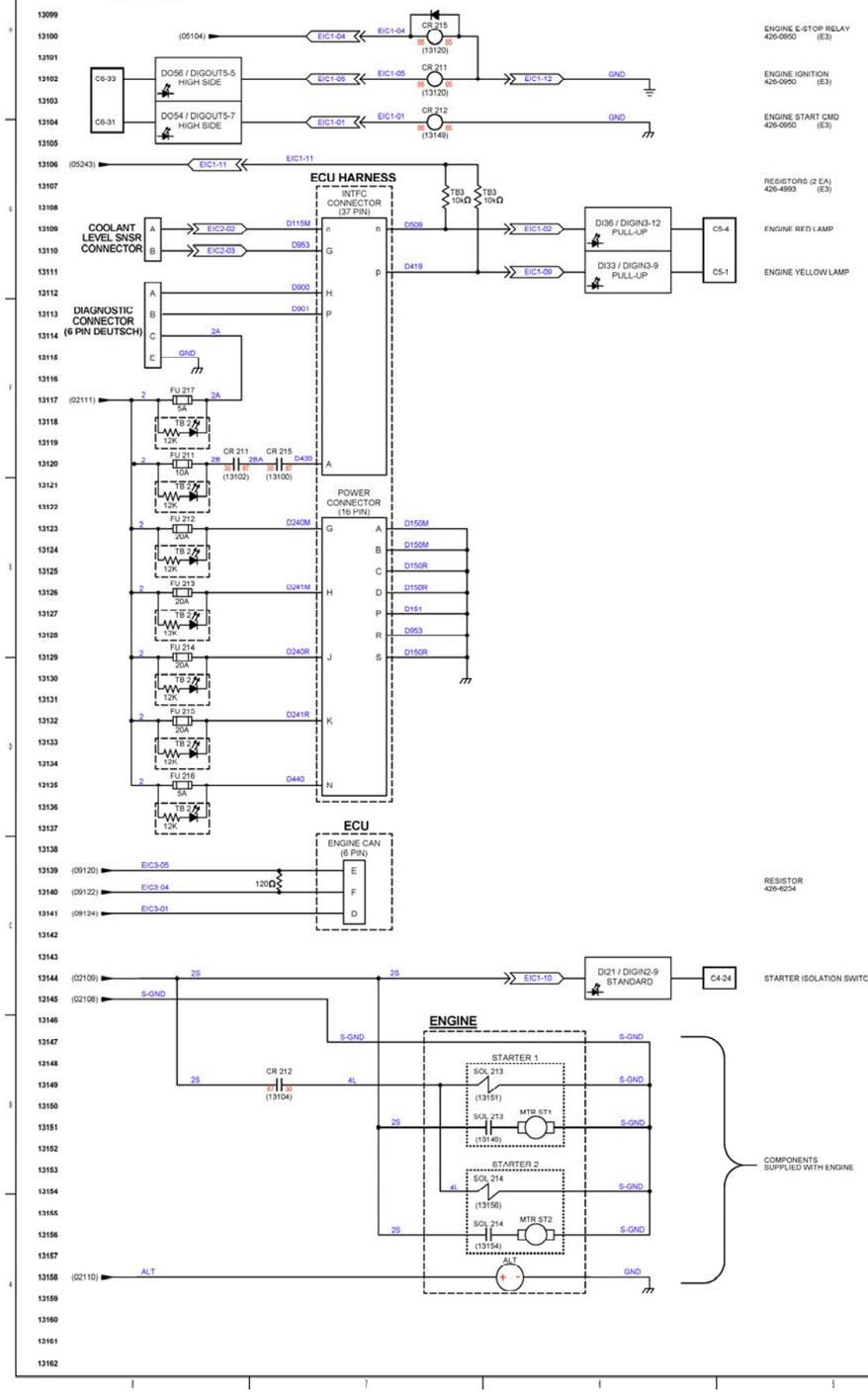
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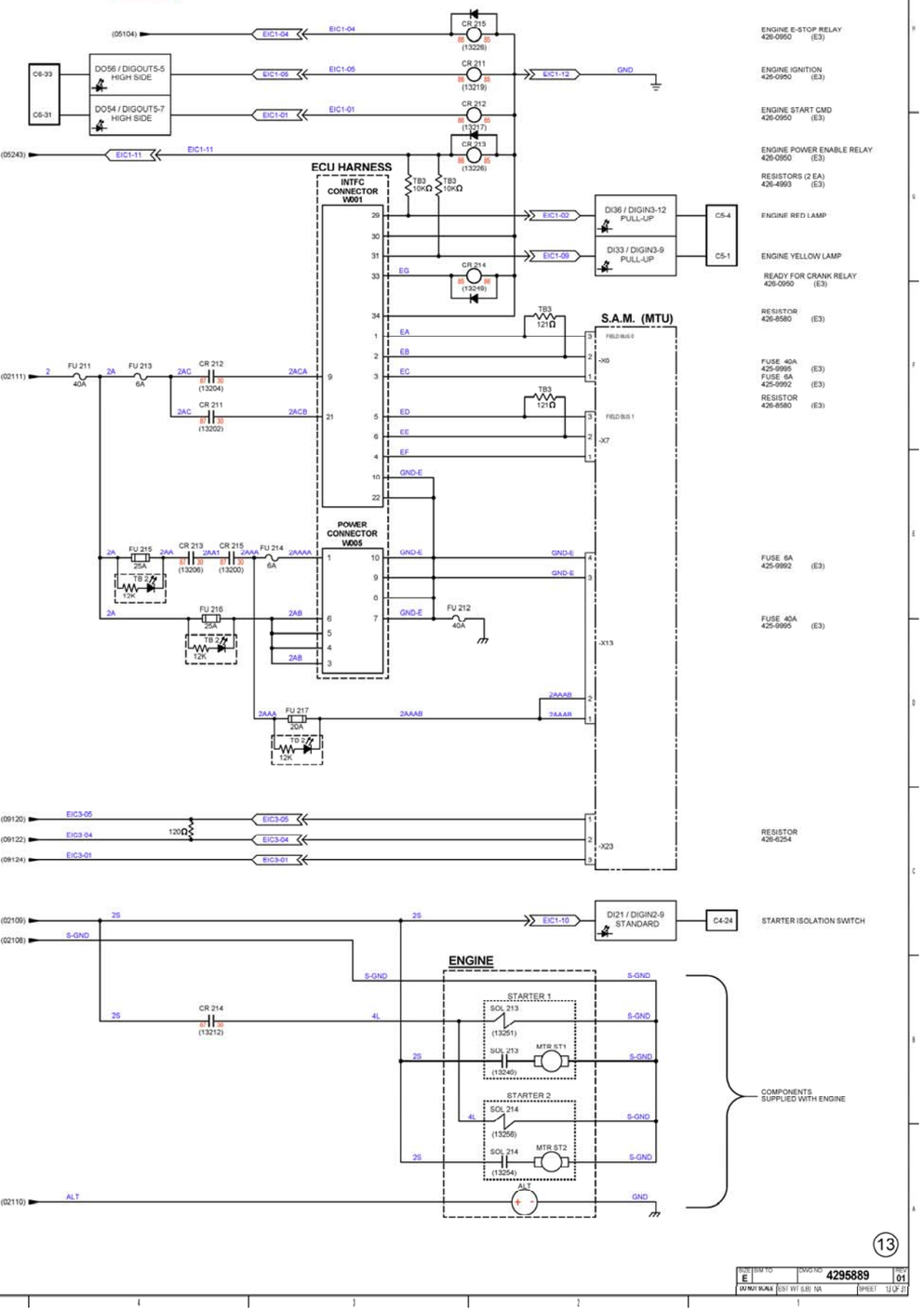
ENGINE

REVISION HISTORY							
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C4/7	01	ADD 1200 RES: DDEC IV ENG CAN, ADEC T2 - EIC3-05	1397539	2019-10-17	FL	BBD	JMS

DDEC IV



ADEC (T2)



13

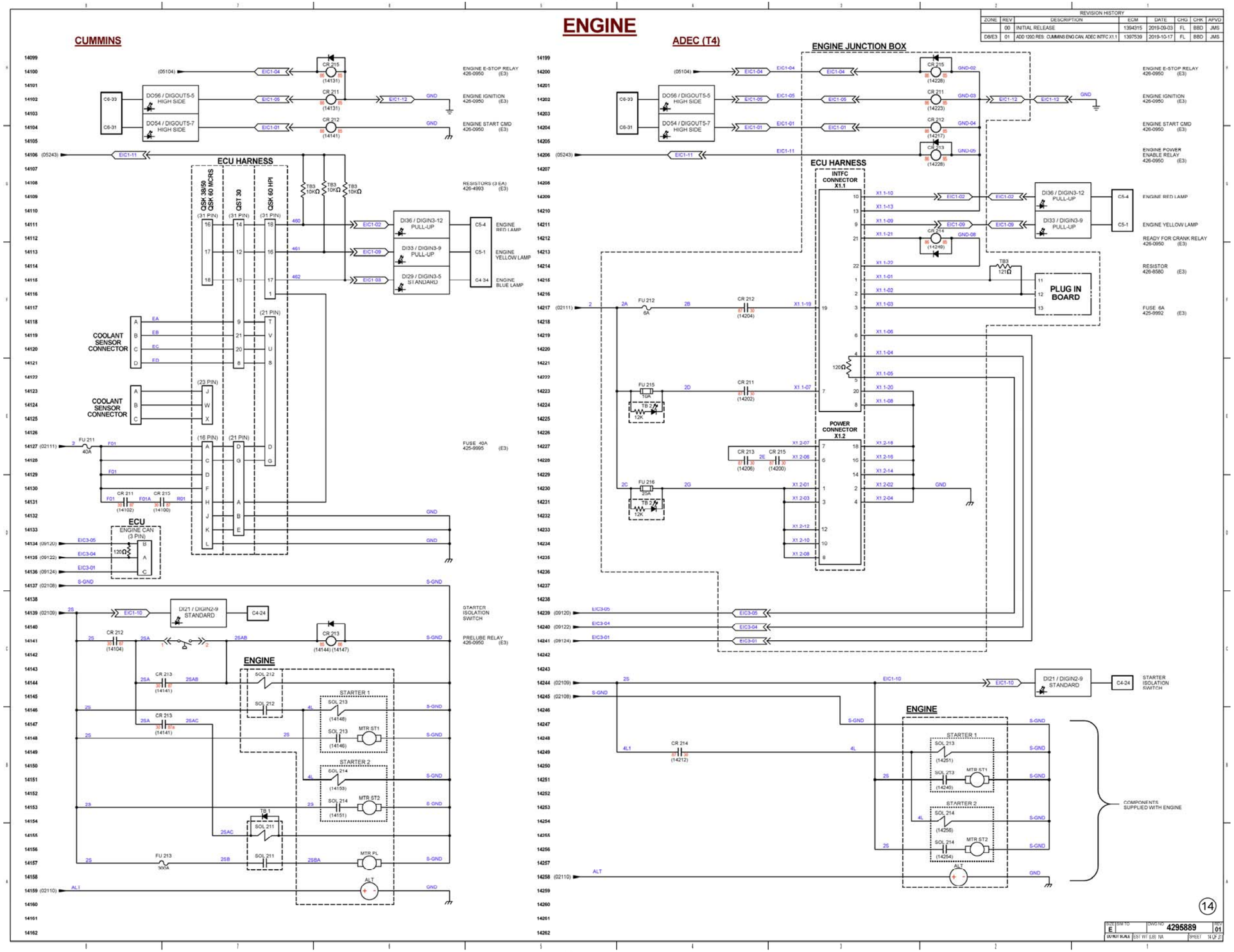
SIZE	DWG NO	REV
E	4295889	01

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REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
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	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

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15

SIZE E | DWG NO 4295889 | REV 01 | DO NOT SCALE | SHEET 1 OF 21

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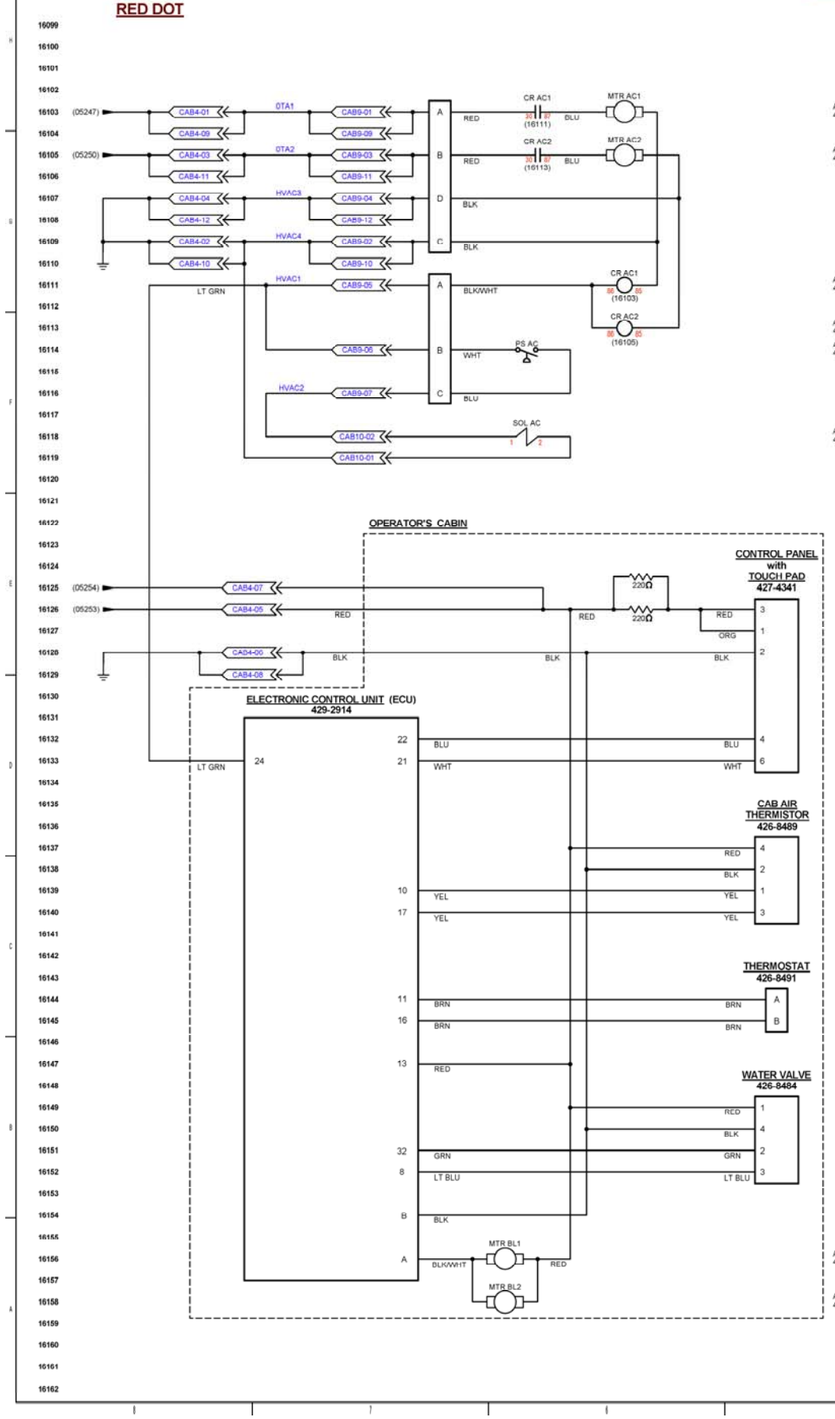
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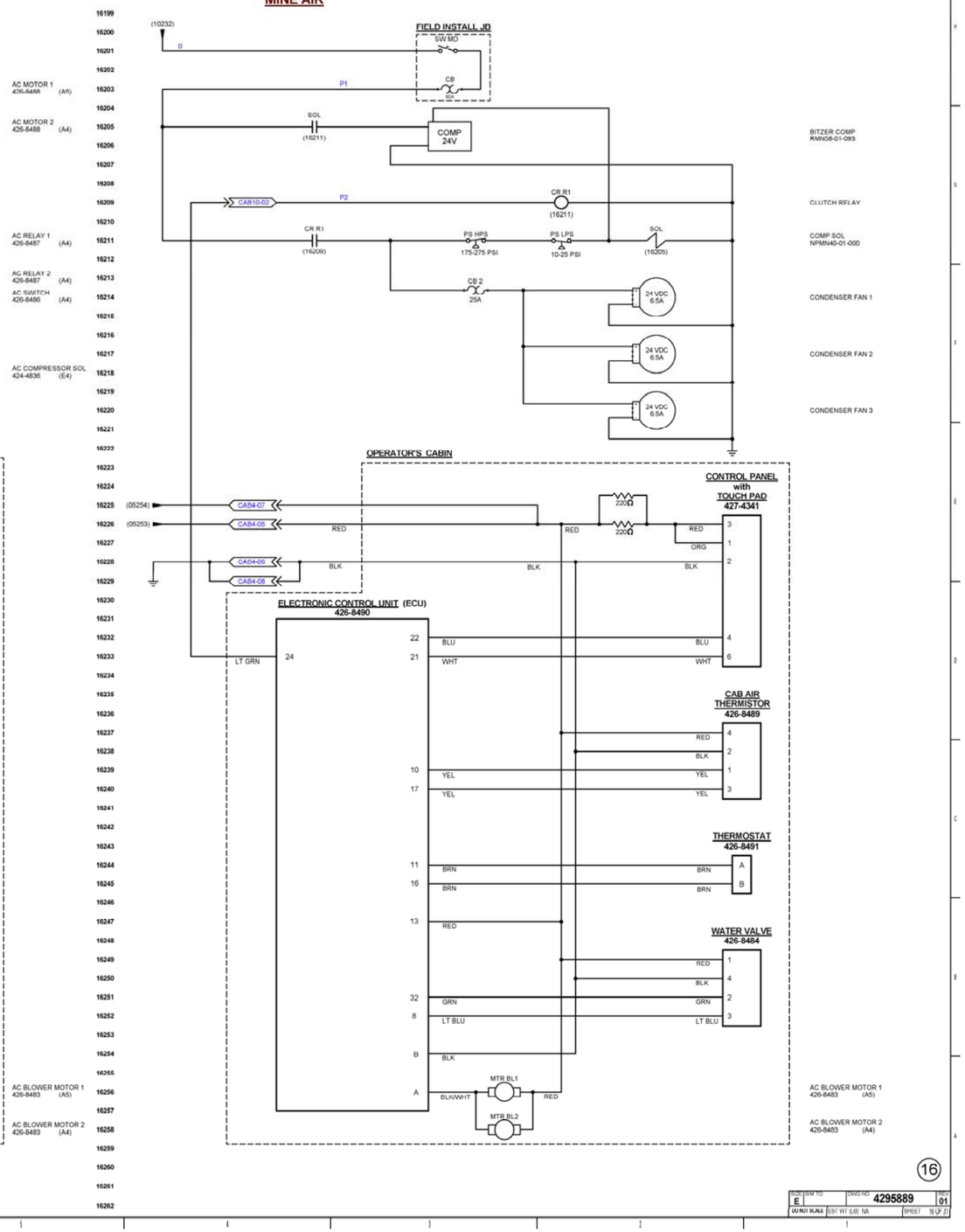
CLIMATE CONTROL

REVISION HISTORY							
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	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

RED DOT



MINE AIR



16

SIZE	DWG NO	REV
E	4295889	01

SCALE: NONE | WT (LB): NA | SHEET 16 OF 21

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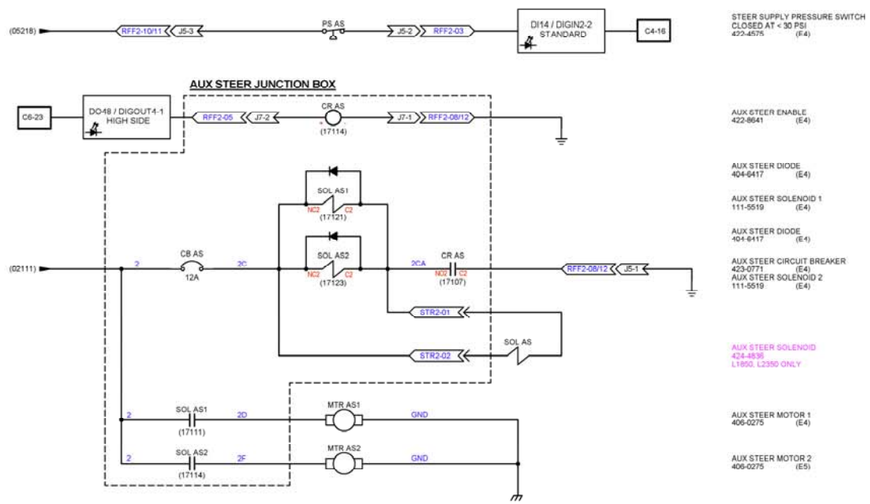
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COMPONENT OPTIONS

REVISION HISTORY						
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	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

AUXILIARY STEER



STEER SUPPLY PRESSURE SWITCH
CLOSED AT < 30 PSI
422-4576 (E4)

AUX STEER ENABLE
422-8641 (E4)

AUX STEER DIODE
404-6417 (E4)

AUX STEER SOLENOID 1
111-5519 (E4)

AUX STEER DIODE
404-6417 (E4)

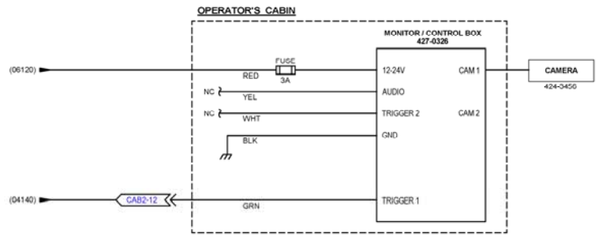
AUX STEER CIRCUIT BREAKER
423-0771 (E4)
AUX STEER SOLENOID 2
111-5519 (E4)

AUX STEER SOLENOID
424-4638
L1850, L2350 ONLY

AUX STEER MOTOR 1
406-0275 (E4)

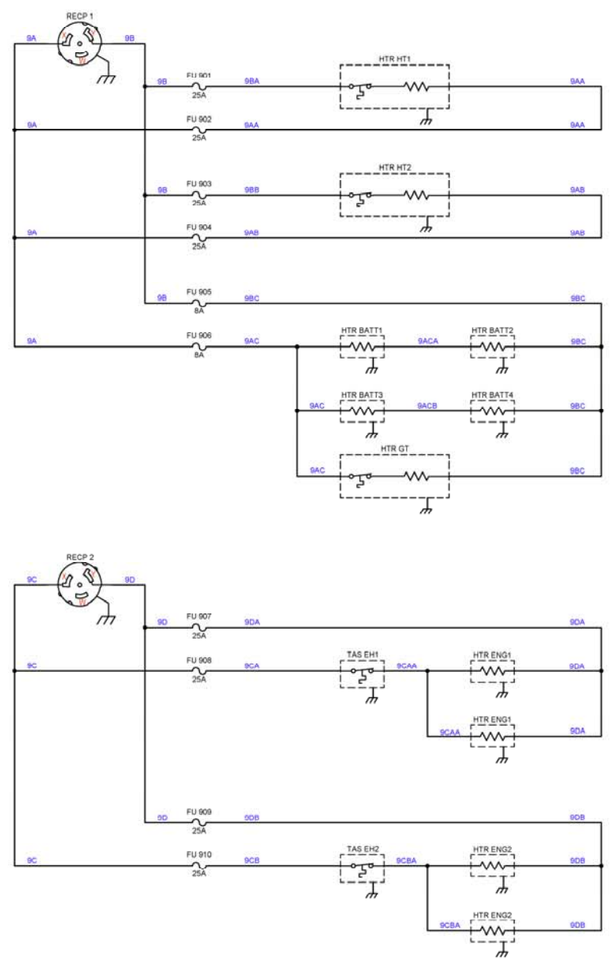
AUX STEER MOTOR 2
406-0275 (E5)

REAR VISION CAMERA



FUSE 3A
426-0099
CABLE - 65 FT
425-0900

HEATERS (COLD CLIMATE)



RECEPTACLE
125/250V 50A
426-6178

HYDRAULIC TANK HEATER
SET AT 120°F
403-8051

FUSE 25A (4 EACH)
426-5172

HYDRAULIC TANK HEATER
SET AT 120°F
403-8051
L1350 G3, L1350, L1850, L2350 ONLY

FUSE 8A (2 EACH)
426-5173

BATTERY HEATERS (4 EACH)
403-8052

GREASE TANK HEATER
427-4363

RECEPTACLE
125/250V 50A
426-6178

FUSE 25A (2 EACH)
426-5172

THERMOSTAT
058-3631
ENGINE COOLANT HEATER
085-3460

ENGINE OIL HEATER LEFT
425-3381

FUSE 25A (2 EACH)
426-5172

THERMOSTAT
058-3631
ENGINE COOLANT HEATER
085-3460
L1150 CUMMINS
L1350 G3, L1350, L1850, L2350 ONLY

ENGINE OIL HEATER RIGHT
425-3381
L1350 G3, L1350, L1850, L2350 ONLY

SIZE	DWG NO	REV
E	4295889	01

DO NOT SCALE | SW WT (LB) NA | SHEET 1 OF 21

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REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
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	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

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18

SIZE E | DWG NO 4295889 | REV 01 | DO NOT SCALE | SHEET 18 OF 21

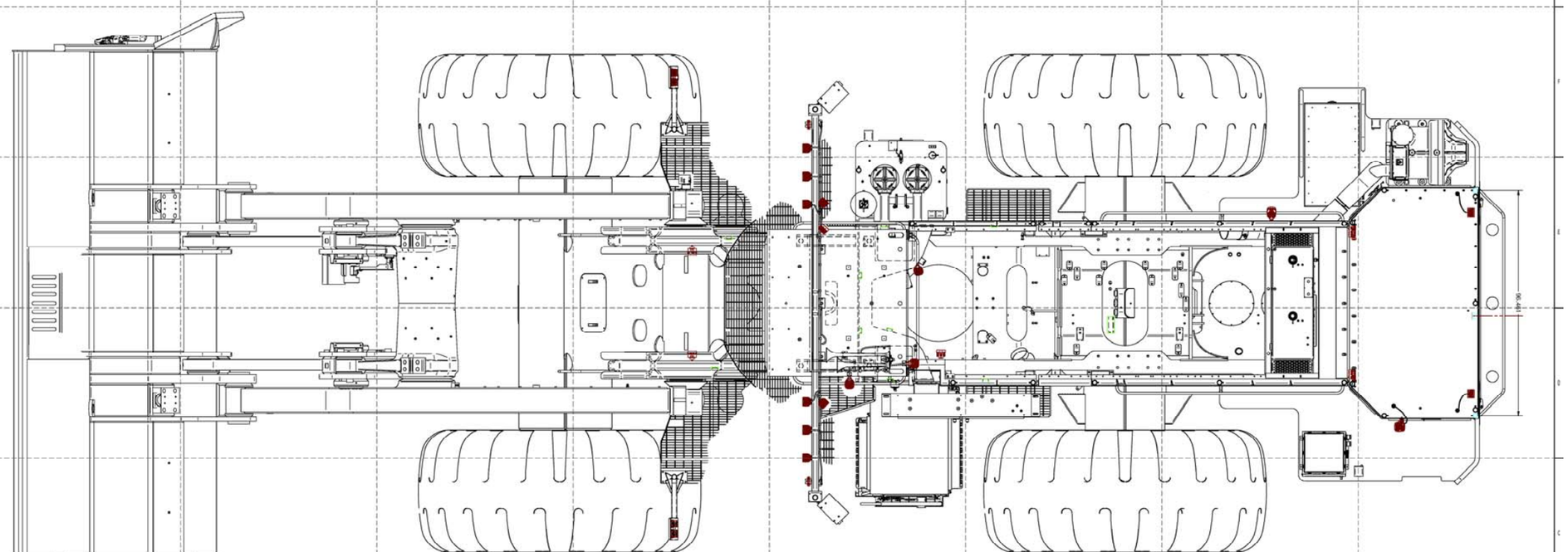
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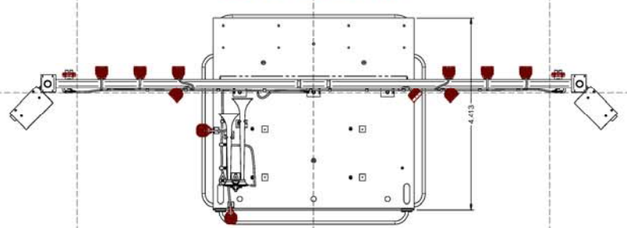
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FRAME LOCATION MAP

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS



CAB & LIGHT BAR LIGHTS



BREAKOUT BOX LOCATIONS	
NAME	LOCATION
PCP1	E5
PCP2	E5
FFR1	D5
FFR2	E5
EST1	D4
RFF1	E4
RFF2	E4
RFF3	E3
RFF4	D4
RFF5	D4
RFM1	D3
RAX1	D3

19

SIZE	ITEM NO	DWG NO	REV
E		4295889	01
DO NOT SCALE	DST WT (LB) NA	SHEET	19 OF 21

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REFERENCE INFORMATION

REVISION HISTORY						
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

WIRE LOCATION CHART

WIRE CODE	LINE NO.
0	02106,02158,02214
0B	02214,02241
0BA	02217,02220
0BB1	02223
0BC	02223
0BD	02226,02238,05125
0C	10230
0D	06103
0E	06118
0E1	03103
0E1A	03103
0EA	06118
0F	05107,05111
0F1	05107
0F2	05111
0F2A	05111,06221
0F3	05115
0F4	05104
0FA	05107,05118
0G	05123
0H	02158
0JA	04211
0JB	04212
0K	04217
0KA	04217
0L	04221
0LA	04221
0LB	04221
0LC	04225
0M	04234
0MA	04234
0N	04238
0NA	04238
0P	04242
0PA	04242
0R	04249
0RA	04249
0S	04256
0SA	04256
0T	05247
0TA	05247
0TA1	16103
0TA2	16105
0V	05203
0VA	05203
0VB	05203
0VC	05206
0VD	05209
0VE	05212
0VF	05215,10224
0VG	05218
0VH	05221
0VJ	05224
0W	05228
0WA	05228
0WB	05228
0WC	05231
0WD	05234
0WE	05237
0WF	05240
0X	04201
0Y	06215
0Z	03226
0ZA	03228
01	04209
02A	11249
02B	11252
03	06112
12V1	06112
12V2	06112
13	10230
13B	02252
2	02106,02111,
	13117,13217,
	14127,17114
2A	13117,13217,14217
2AA	13226
2AA1	13226
2AAA	13226,13234
2AAAA	13226
2AAAB	13234

WIRE CODE	LINE NO.
2AB	13229
2AC	13217
2ACA	13217
2ACB	13219
2B	13120,14217
2BA	13120
2C	14230,17114
2CA	17114
2D	14223,17121
2E	14228
2F	17123
2G	14230
2S	02109,13144,
	13156,13244,13256,
	14139,14244
2SA	14141,14147
2SAB	14141,14144
2SAC	14147,14155
2SB	14157
2SBA	14157
3B	02205
4L	13149,13154,
	13249,13254,
	14146,14249
4L1	14249
9A	17204,17218
9AA	17208
9AB	17213
9AC	17218
9ACA	17218
9ACB	17221
9B	17204,17216
9BA	17206
9BB	17211
9BC	17216
9C	17229,17242
9CA	17233
9CAA	17233
9CB	17242
9CBA	17242
9D	17229,17240
9DA	17231
9DB	17240
460	14111
461	14113
462	14115
ALT	02110,13158,
	13258,14159,14258
CAB1-01	03103
CAB1-02	03112
CAB1-03	06112
CAB1-04	06113
CAB1-09	03206
CAB1-10	03209
CAB1-11	03203
CAB1-12	03203
CAB2-01	02208,02252,04201
CAB2-02	02252
CAB2-03	04119
CAB2-04	02208
CAB2-05	02210
CAB2-06	04115
CAB2-07	04115
CAB2-08	04117
CAB2-09	04121
CAB2-10	04207
CAB2-11	04207
CAB2-12	17158
CAB3-01	03232
CAB3-02	03234
CAB3-03	06103
CAB3-04	06118
CAB3-05	06114
CAB3-06	06105
CAB3-07	06119
CAB3-08	06115
CAB3-09	04202
CAB3-10	03226
CAB3-11	03228
CAB3-12	03230

WIRE CODE	LINE NO.
CAB4-01	05247,16103
CAB4-02	16109
CAB4-03	05250,16105
CAB4-04	16107
CAB4-05	05253,16126,16226
CAB4-06	16128,16228
CAB4-07	05254,16125,16225
CAB4-08	16129,16229
CAB4-09	05248,16104
CAB4-10	16110
CAB4-11	05251,16106
CAB4-12	16108
CAB5-01	09108
CAB5-02	09112
CAB5-03	09110
CAB5-04	09106
CAB5-05	09104
CAB9-01	16103
CAB9-02	16109
CAB9-03	16105
CAB9-04	16107
CAB9-05	16111
CAB9-06	16114
CAB9-07	16116
CAB9-09	16104
CAB9-10	16110
CAB9-11	16106
CAB9-12	16108
CAB10-01	16119
CAB10-02	16118,16209
CSP1-03	05237,10103,11110
CSP1-04	11110
CSP1-05	10103
CSP1-07	04214
CSP1-08	04211
CSP1-09	04212
CSP1-10	11250
CSP1-11	05238,11250
CSP1-12	04212
CSP2-01	11249
CSP2-02	11250
CSP2-03	11250
D115M	13109
D150M	13123
D150R	13125
D151	13127
D240M	13123
D240R	13129
D241M	13126
D241R	13132
D419	13111
D439	13120
D440	13135
D509	13109
D900	13112
D901	13113
D963	13110,13128
DI7	02208
DI8	02252
DI10	11108
DO2	02214
DO3	02203
DO4	04103
DO5	04107
DO7	04111
DO8	02249
DO17	03215
DO18	03217
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DO23	02241
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DO28	09134
DO35	04144
DO37	04125
DO38	04130
DO58	04138

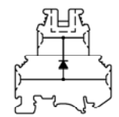
WIRE CODE	LINE NO.
EA	13215,14118
EB	13216,14119
EC	13217,14120
ED	13219,14121
EE	13220
EF	13221
EG	13212
EIC1-01	13104,13204,
	14104,14204
EIC1-02	13109,13209,
	14111,14209
EIC1-03	14115
EIC1-04	05104,
	13100,13200,
	14100,14200
EIC1-05	13102,13202,
	14102,14202
EIC1-09	13111,13211,
	14113,14211
EIC1-10	13144,13244,
	14139,14244
EIC1-11	05243,
	13106,13206,
	14106,14206
EIC1-12	13102,13202,
	14102,14202
EIC2-02	13109
EIC2-03	13110
EIC3-01	09124,13141,13241,
	14136,14241
EIC3-02	09128
EIC3-03	09126
EIC3-04	09122,13140,13240,
	14135,14240
EIC3-05	09120,13139,13239,
	14134,14239
EST1-01	02132
EST1-02	02136
EST1-03	02120
EST1-05	02121
EST1-06	02129
EST1-07	02128
EST1-08	02125
EST1-09	02124
EST1-10	02120
EST1-11	02133
EST1-12	02137
F01	14127
F01A	14131
FFR1-02	10126
FFR1-03	11215
FFR1-04	10128
FFR1-06	10230
FFR1-07	11108
FFR1-08	04221,10230,11215
FFR1-09	04221
FFR1-10	05203,10126,11108
FFR1-11	05204,10126,11108
FFR1-12	04221,10230,11215
FFR2-01	04223
FFR2-02	07119
FFR2-05	11112
FFR2-07	06134
FFR2-08	04223,06136,06140
FFR2-09	06138
FFR2-10	05206,06134,
	06138,11112
FFR2-11	05207,06134,
	06138,11112
FFR2-12	04223,06136,06140
FPL1-01	04234
FPL1-02	04234
FPL1-03	04236
FPL1-04	04236
FPL2-01	04238
FPL2-02	44238
FPL2-03	04240
FPL2-04	04240
GND	02143,02205

WIRE CODE	LINE NO.
GND-02	14200
GND-03	14202
GND-04	14204
GND-05	14206
GND-08	14212
GND-E	13222,13226,13229
HVAC1	16111
HVAC2	16116
HVAC3	16107
HVAC4	16109
IBN1-03	03128
IBN1-04	03126
KLZ1-01	10207
KLZ1-02	10209
KLZ1-03	10211
KLZ1-04	10213
KLZ1-05	10215
KLZ1-06	10217
KLZ1-07	10219
KLZ1-08	10239
KLZ1-09	10124
KLZ1-10	05240,10124
KLZ1-11	05241,10239
KLZ1-12	10207
LLC1-01	04211
LLC1-02	04212
LLC1-03	04212
MBR1-01	04125
MBR1-02	04125
MBR1-03	04242
MBR1-04	04242
MBR1-05	04244
MBR1-06	04244
MBR1-07	04246
MBR1-08	04246
MBR1-09	10203
MBR1-10	10203
MBR1-11	04217
MBR1-12	04217
MBR2-01	04130
MBR2-02	04130
MBR2-03	04249
MBR2-04	04249
MBR2-05	04251
MBR2-06	04251
MBR2-07	04253
MBR2-08	04253
MBR2-09	04209
MBR2-10	04209
MBR2-11	04207
MBR2-12	04207
NEG	02101,02104
POS	02101,02104
PCP1-01	11205
PCP1-02	11203
PCP1-04	11119
PCP1-06	07121
PCP1-07	11207
PCP1-08	11203,11209
PCP1-09	11209
PCP1-10	05209,11119
PCP1-11	05210,11119
PCP1-12	11203,11209
PCP2-02	11123
PCP2-04	11211
PCP2-05	11129
PCP2-06	11213
PCP2-07	11125
PCP2-08	11211,11213
PCP2-09	11127
PCP2-10	05212,11123
PCP2-11	05213,11123
PCP2-12	11211,11213
P1	16203
P2	16209

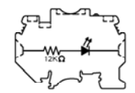
WIRE CODE	LINE NO.
P1-1	03241
P1-2	03239
P1-3	03241
P1-4	03239
P2-1	03246
P2-2	03244
P2-3	03246
P2-4	03244
P3-1	03251
P3-2	03249
P3-3	03251
P3-4	03249
R01	14131
RAX1-03	10136
RAX1-05	10134
RAX1-07	11114
RAX1-08	10232
RAX1-09	10232
RAX1-10	05234,10134,11114
RAX1-11	05235,10134,11114
RAX1-12	10232
RCL1-01	04258
RCL1-02	04258
RCL1-03	04132
RCL1-04	04134
RCL1-05	04127
RCL1-06	04129
RCL1-07	04138
RCL1-08	04229
RCL1-09	04229
RCL1-10	04127
RCL1-11	04256
RCL1-12	04256
RCL2-01	04219
RCL2-02	04219
RFF1-01	02155,02158
RFF1-03	11149
RFF1-04	06130
RFF1-05	11103
RFF1-06	11221
RFF1-07	10138
RFF1-08	02158,06132,
	11105,11221
RFF1-10	05215,06130,
	10138,10224,
	11103,11149
RFF1-11	05216,06130,
	10138,10224,
	11103,11149
RFF1-12	02158,06132,
	11105,11221
RFF2-01	11225
RFF2-02	04227
RFF2-03	17103
RFF2-05	17107
RFF2-08	04227,10243,17107
RFF2-10	05218,10243,17103
RFF2-11	05219,10243,17103
RFF2-12	04227,10243,17107
RFF3-01	11145
RFF3-02	11141
RFF3-03	11133
RFF3-04	11143
RFF3-05	11131
RFF3-06	11219
RFF3-07	11137
RFF3-08	11219
RFF3-09	11135
RFF3-10	05221,11131
RFF3-11	05222,11131
RFF3-12	11219
RFF4-01	11157
RFF4-02	11159
RFF4-03	11139
RFF4-04	10132
RFF4-05	06150
RFF4-06	07307
RFF4-07	10130
RFF4-08	06150
RFF4-09	11147

WIRE CODE	LINE NO.
RFF4-10	05224,10130,
	11139,11147,11157
RFF4-11	05225,10130,
	11139,11147,11157
RFF4-12	06150
RFF5-01	10140
RFF5-02	07123
RFF5-04	07125
RFF5-05	11227
RFF5-06	02152,02155
RFF5-07	03221
RFF5-08	03221,11227
RFF5-09	03223
RFF5-10	02152,05228,10140
RFF5-11	02152,05229,10140
RFF5-12	03221,11227
RFM1-01	10109
RFM1-04	06126
RFM1-05	11151
RFM1-06	03255
RFM1-07	06152
RFM1-08	03257,04225
	06128,06152
RFM1-09	04225
RFM1-10	03255,05231,
	06126,10109,11151
RFM1-11	03255,05232,
	06126,10109,11151
RFM1-12	03257,04225,
	06128,06152
S-GND	02108,13145,
	13245,14137,
	14157,14245
SRC1-01	06203
SRC1-03	06215
SRC1-04	06207
SRC1-05	06212
SRC1-06	06221
SRC1-10	06224
SRC1-11	06226
SRC1-12	06228
SRC2-01	09143
SRC2-04	09141
SRC2-05	09139
SRC3-01	09155
SRC3-04	09153
SRC3-05	09151
STR2-01	17116
STR2-02	17118
SWRTN	04202
X1.1-01	14215
X1.1-02	14216
X1.1-03	14217
X1.1-04	14220
X1.1-05	14222
X1.1-06	14219
X1.1-07	14223
X1.1-08	14224
X1.1-09	14211
X1.1-10	14209
X1.1-13	14210
X1.1-19	14217
X1.1-20	14223
X1.1-21	14212
X1.1-22	14214
X1.2-01	14230
X1.2-02	14230
X1.2-03	14231
X1.2-04	14231
X1.2-06	14228
X1.2-07	14227
X1.2-08	14235
X1.2-10	14234
X1.2-12	14233
X1.2-14	14229
X1.2-16	14228
X1.2-18	14227

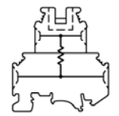
TB1
DIODE TERMINAL BLOCK
426-4181



TB2
ATC FUSE TERMINAL BLOCK
426-4182



TB3
RESISTOR TERMINAL BLOCK
426-4992



FUSE LOCATION

FUSE NUMBER	LOCATION
1-199	(D4)
200-210	(D1)
211-220	(E3)
221-230	(D1)

ATC FUSE P/N
(USED IN TB2)

CURRENT RATING	P/N
2A	426-7770
5A	426-5742
10A	426-5743
15A	426-5744
20A	426-5745
25A	426-5746
30A	426-5747

SIZE	ITEM NO	DWG NO	REV
E		4295889	01
DO NOT SCALE		SHEET 1 OF 1	

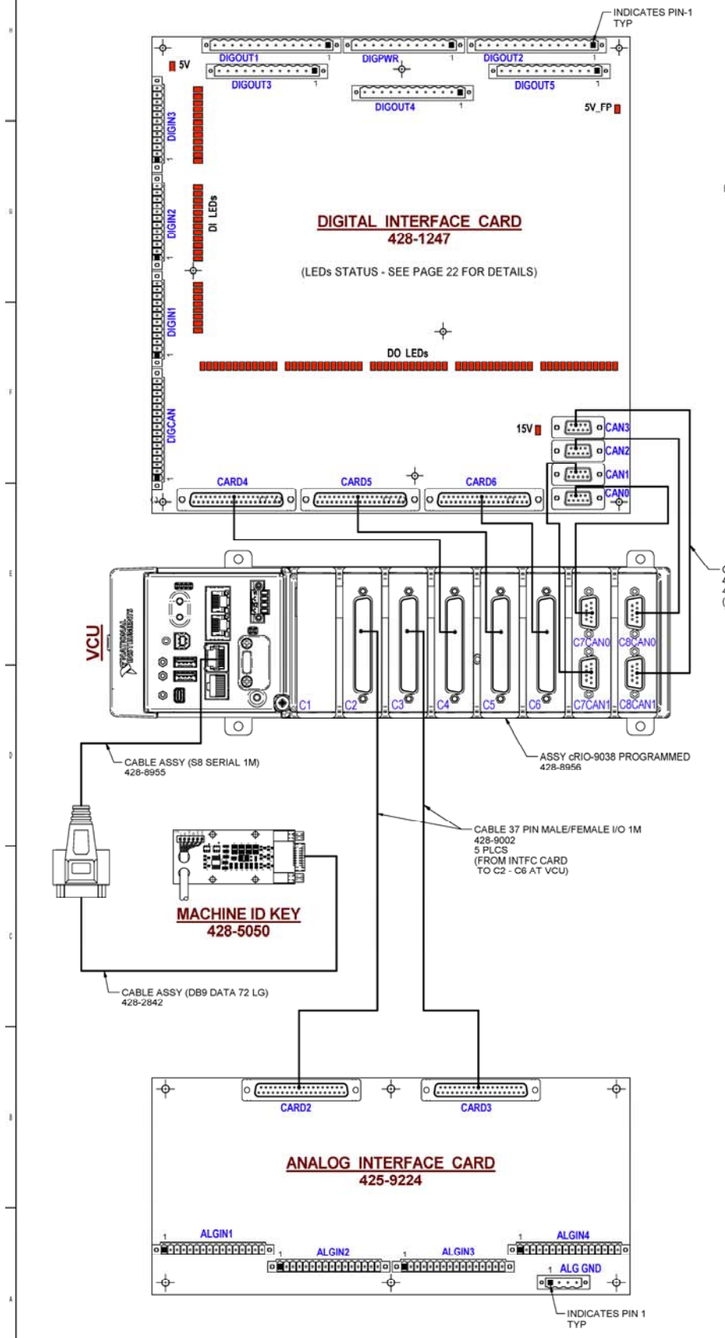
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ELECTRICAL SCHEMATIC

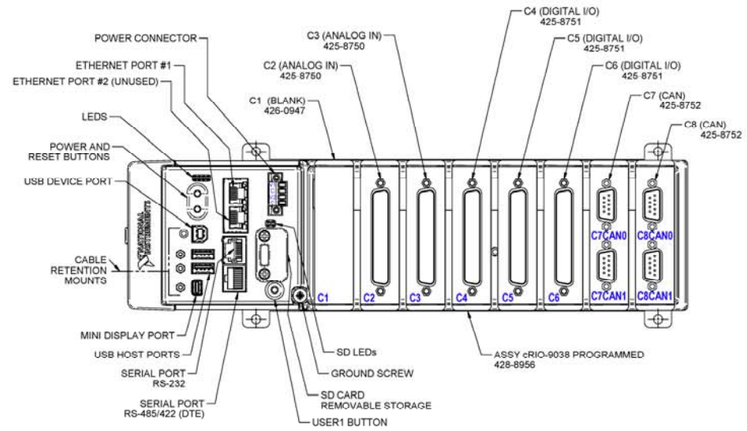
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REFERENCE INFORMATION

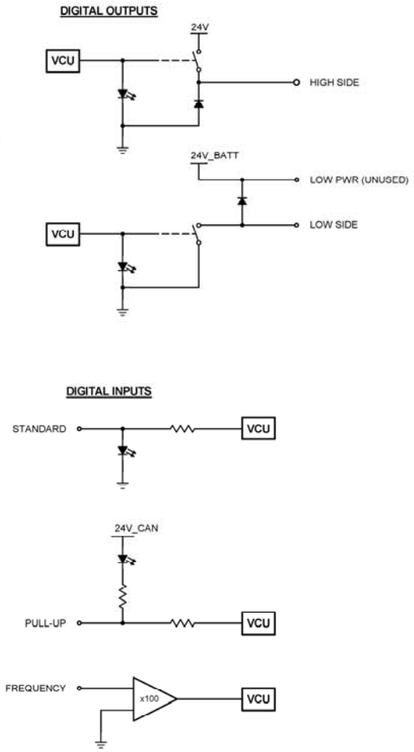
REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

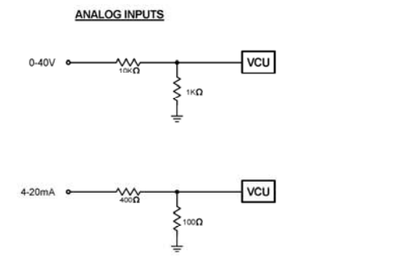


VEHICLE CONTROL UNIT (VCU) COMPONENT IDENTIFICATION



I/O EQUIVALENT CIRCUITS





SIZE	DWG NO	REV
E	4295889	01

DO NOT SCALE | SW WT (LB) NA | SHEET 21 OF 21

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ELECTRICAL SCHEMATIC

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DIGITAL INTERFACE CARD STATUS LEDs

ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

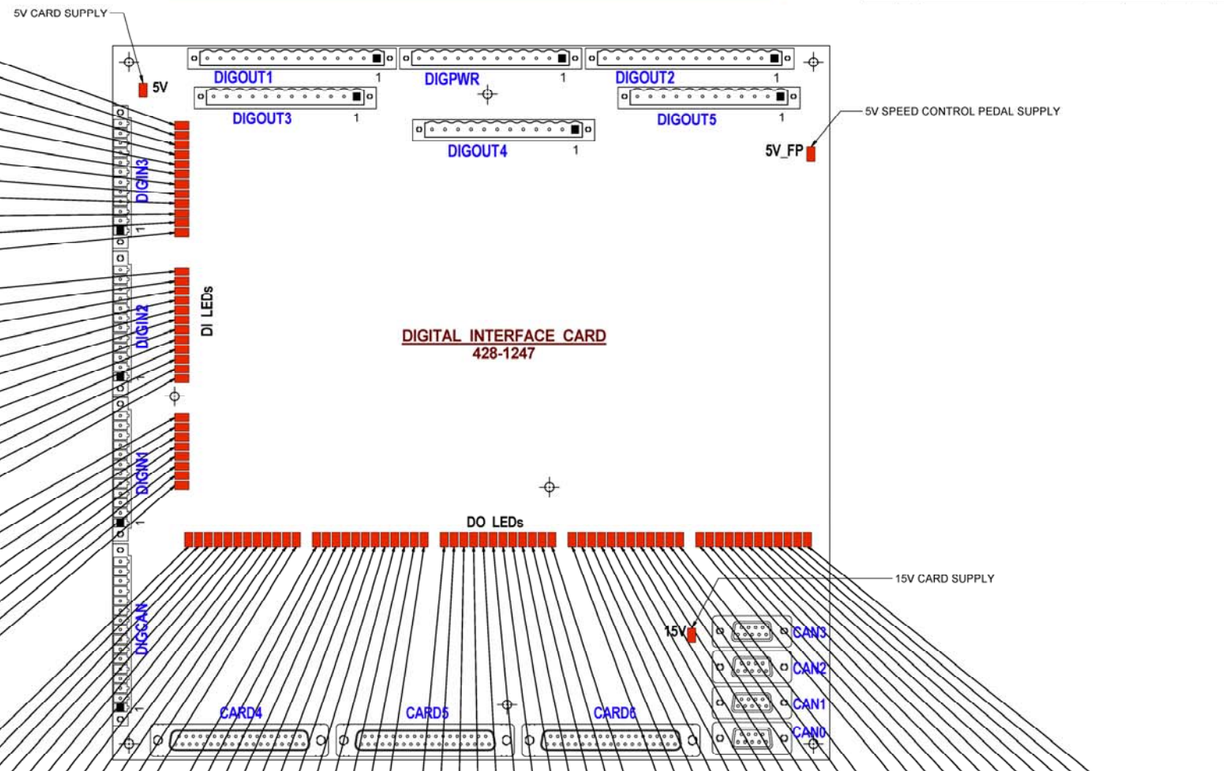
DIGITAL INPUTS

D33 - 36 (> Rev. 3)
LED OFF = 0 VDC INPUT
LED ON = 24 VDC INPUT

D33 - 36
LED OFF = 24 VDC INPUT
LED ON = 0 VDC INPUT

D5 - 32
LED OFF = 0 VDC INPUT
LED ON = 24 VDC INPUT

CONN-PIN	CHANNEL	DI LED	LINE #
DIGIN3-12	ENGINE RED LAMP	36	13109,13209,14111,14209
DIGIN3-11	HYD RESERVOIR LEVEL SWITCH	35	11103
DIGIN3-10	DRIVE COOL RESERVOIR LEVEL SWITCH	34	03255
DIGIN3-9	ENGINE YELLOW LAMP	33	13111,13211,14113,14211
DIGIN3-8	UNUSED	32	-----
DIGIN3-7	FIRE SYSTEM STATUS	31	02152
DIGIN3-6	UNUSED	30	-----
DIGIN3-5	ENGINE BLUE LAMP	29	14115
DIGIN3-4	UNUSED	28	-----
DIGIN3-3	RIGHT REAR E-STOP SWITCH	27	02128
DIGIN3-2	LEFT REAR E-STOP SWITCH	26	02132
DIGIN3-1	HYD RESERVOIR E-STOP SWITCH	25	02136
DIGIN2-12	HV CABINET E-STOP SWITCH	24	02124
DIGIN2-11	CAB E-STOP SWITCH	23	02120
DIGIN2-10	LADDER POSITION SWITCH	22	11250
DIGIN2-9	STARTER ISOLATION SWITCH	21	13144,13244,14139,14244
DIGIN2-8	KLENZ ENABLE SWITCH	20	10103
DIGIN2-7	REAR DRIVER LUBE FLOW SWITCH	19	11114
DIGIN2-6	UNUSED	18	-----
DIGIN2-5	UNUSED	17	-----
DIGIN2-4	UNUSED	16	-----
DIGIN2-3	ENGINE SAFETY FILTERS	15	10109
DIGIN2-2	STEER SUPPLY PRESSURE SWITCH	14	17103
DIGIN2-1	UNUSED	13	-----
DIGIN1-12	HV CABINET DOOR SWITCH	12	06203
DIGIN1-11	FRONT DRIVER LUBE FLOW SWITCH	11	11112
DIGIN1-10	AUTOLUBE SWITCH	10	11108
DIGIN1-9	UNUSED	9	-----
DIGIN1-8	PARK BRAKE SWITCH	8	02255
DIGIN1-7	KEYSWITCH IGNITION	7	02208
DIGIN1-6	KEYSWITCH CRANK SWITCH	6	02210
DIGIN1-5	UNUSED	5	-----
DIGIN1-4	UNUSED	4	-----
DIGIN1-3	RADIATOR FAN SPEED	3	06152
DIGIN1-2	BLOWER SPEED	2	06150
DIGIN1-1	HMI POWER SENSE	-	N/A



CONN-PIN	CHANNEL	DO LED	LINE #
DIGOUT1-13	UNUSED	1	-----
DIGOUT1-11	VCU / HMI KEEP ALIVE	2	02214
DIGOUT1-10	IGNITION KEEP ALIVE OUTPUT	3	02203
DIGOUT1-9	POLE WORK LIGHTS	4	04103
DIGOUT1-8	CAB LIGHT BAR LIGHTS	5	04107
DIGOUT1-7	UNUSED	6	-----
DIGOUT1-6	REAR COWL LIGHTS	7	04111
DIGOUT1-5	PARK BRAKE INTERLOCK OUTPUT	8	02249
DIGOUT1-4	RED ALARM LIGHT	9	04115
DIGOUT1-3	YELLOW WARNING LIGHT	10	04117
DIGOUT1-2	CAB AUDIBLE ALARM	11	04119
DIGOUT1-1	UNUSED	12	-----
DIGOUT3-12	DUMP PRESSURE REDUCING SOL	25	11211
DIGOUT3-11	UNUSED	26	-----
DIGOUT3-10	TAIL LIGHTS	27	04134
DIGOUT3-9	STEER ACTUATOR POWER	28	09134
DIGOUT3-8	HOIST RAISE PILOT SOL	29	11203
DIGOUT3-7	BUCKET DUMP PILOT SOL	30	11209
DIGOUT3-6	BUCKET ROLLBACK PILOT SOL	31	11207
DIGOUT3-5	HOIST LOWER PILOT SOL	32	11205
DIGOUT3-4	UNUSED	33	-----
DIGOUT3-3	UNUSED	34	-----
DIGOUT3-2	BEACON	35	04144
DIGOUT3-1	HORN SOL	36	10203
DIGOUT4-12	LEFT TURN SIGNAL LIGHT	37	04125
DIGOUT4-11	RIGHT TURN SIGNAL LIGHT	38	04130
DIGOUT4-10	KLENZ 1 SOL	39	10207
DIGOUT4-9	KLENZ 2 SOL	40	10209
DIGOUT4-8	KLENZ 3 SOL	41	10211
DIGOUT4-7	KLENZ 4 SOL	42	10213
DIGOUT4-6	KLENZ 5 SOL	43	10215
DIGOUT4-5	KLENZ 6 SOL	44	10217
DIGOUT4-4	KLENZ 7 SOL	45	10219
DIGOUT4-3	UNUSED	46	-----
DIGOUT4-2	UNUSED	47	-----
DIGOUT4-1	AUX STEER ENABLE	48	17107
DIGOUT5-12	UNUSED	49	-----
DIGOUT5-11	OIL COOLER BYPASS SOL	50	11219
DIGOUT5-10	AUX FAN ENABLE SOL	51	11221
DIGOUT5-9	RADIATOR FAN CONTROL SOL	52	11225
DIGOUT5-8	UNUSED	53	-----
DIGOUT5-7	ENGINE START CMD	54	13104, 13204,14104,14204
DIGOUT5-6	UNUSED	55	-----
DIGOUT5-5	ENGINE IGNITION	56	13102, 13202,14102, 14202
DIGOUT5-4	BLOWER CONTROL SOL	57	11227
DIGOUT5-3	BACKUP LIGHT & ALARM	58	04138
DIGOUT5-2	UNUSED	59	-----
DIGOUT5-1	UNUSED	60	-----
DIGOUT2-14	UNUSED	13	-----
DIGOUT2-13	FRONT WASHER PUMP	14	03221
DIGOUT2-12	REAR WASHER PUMP	15	03223
DIGOUT2-11	PARK BRAKE SWITCH LIGHT	16	04121
DIGOUT2-10	FRONT WIPER HIGH	17	03215
DIGOUT2-9	FRONT WIPER LOW	18	03217
DIGOUT2-8	REAR WIPER LOW	19	03219
DIGOUT2-7	UNUSED	20	-----
DIGOUT2-6	AUTOLUBE SOL	21	11215
DIGOUT2-5	FLOAT SOL	22	11213
DIGOUT2-3	DIGITAL OUTPUT POWER	23	02241
DIGOUT2-1	DRIVE SWITCH POWER OUTPUT	24	02235

DIGITAL OUTPUTS

LED OFF = 0% DUTY CYCLE
LED ON = >0% DUTY CYCLE
(BRIGHTNESS VARIES WITH DUTY CYCLE)

22

SIZE	DWG NO	REV
E	4295889	01

DO NOT SCALE | SHEET 22 OF 31

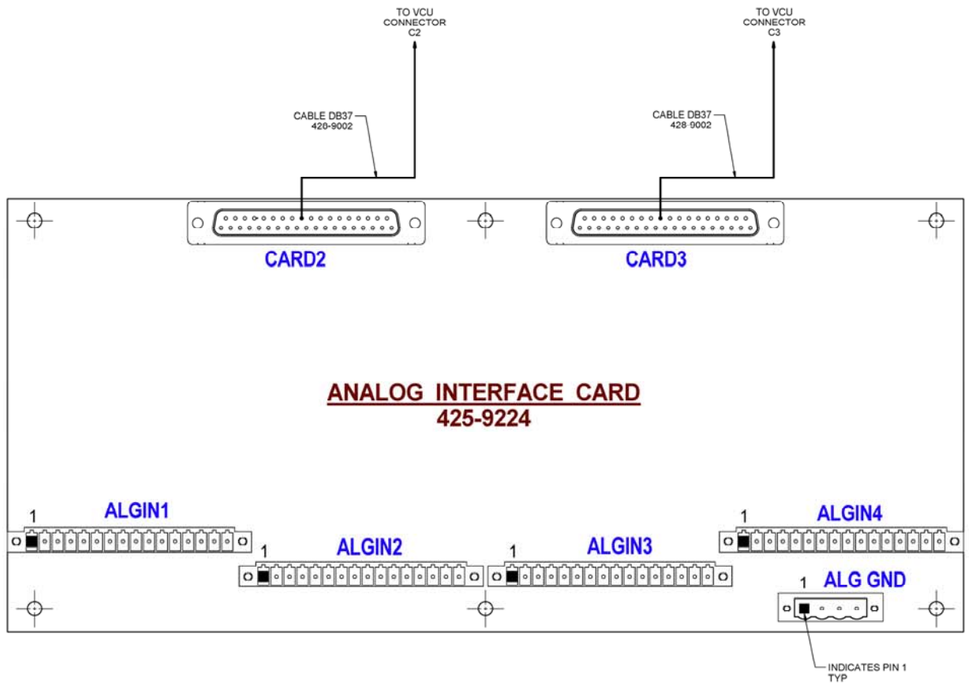
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ANALOG INTERFACE CARD STATUS

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS



ANALOG INTERFACE CARD ASSIGNMENTS

CONN-PIN	CHANNEL	LINE No.		CONN-PIN	CHANNEL	LINE No.		CONN-PIN	CHANNEL	LINE No.
ALGIN1-1	SPEED CONTROL PEDAL RAW (V)	03203		ALGIN2-1	GREATEST PILOT CMD (psi)	11125		ALGIN3-1	HPD GEARBOX (psi)	11159
ALGIN1-2	SPEED CONTROL PEDAL SUPPLY (V)	03209		ALGIN2-2	HOIST CYLINDER BASE (psi)	11127		ALGIN3-2	HYD RESERVOIR (psi)	10132
ALGIN1-3	FRAME IMPEDANCE	06207		ALGIN2-3	KLENZ FILTER (psi)	10124		ALGIN3-3	REAR SERVICE BRAKES (psi)	10134
ALGIN1-4	BATTERY (V)	05102		ALGIN2-4	HYDRAULIC RESERVOIR OIL (°F)	11149		ALGIN3-4	REAR PARK BRAKES (psi)	10136
ALGIN1-5		---		ALGIN2-5	STEER POSITION RAW (V)	06130		ALGIN3-5	KLENZ RESERVOIR AIR (psi)	10138
ALGIN1-6		---		ALGIN2-6	FAST HOIST PUMP (psi)	11131		ALGIN3-6	FUEL LEVEL LOW TO FILL	06126
ALGIN1-7		---		ALGIN2-7	HOIST / BUCKET PUMP A (psi)	11133		ALGIN3-7	AMBIENT (°F)	10140
ALGIN1-8		---		ALGIN2-8	HOIST / BUCKET PUMP B (psi)	11135		ALGIN3-8		---
ALGIN1-9		---		ALGIN2-9	HOIST / BUCKET PUMP C (psi)	11137		ALGIN3-9	HOIST CYL ROD (psi)	11129
ALGIN1-10	AUTOLUBE GREASE (psi)	11151		ALGIN2-10	BLOWER PUMP (psi)	11139		ALGIN3-10		---
ALGIN1-11	FRONT SERVICE BRAKES (psi)	10126		ALGIN2-11	STEER PUMP A (psi)	11141		ALGIN3-11	BUCKET CYL ROD (psi)	11119
ALGIN1-12	FRONT PARK BRAKES (psi)	10128		ALGIN2-12	STEER PUMP B (psi)	11143		ALGIN3-12		---
ALGIN1-13	LIFT ARM POSITION RAW (V)	06134		ALGIN2-13	ACCESSORY PUMP (psi)	11145		ALGIN3-13		---
ALGIN1-14	BELLCRANK TO LIFT ARM RAW (V)	06138		ALGIN2-14	RADIATOR FAN PUMP (PSI)	11147		ALGIN3-14		---
ALGIN1-15				ALGIN2-15	SYSTEM AIR (PSI)	10130		ALGIN3-15		---
ALGIN1-16	PILOT SUPPLY (psi)	11123		ALGIN2-16	HPD GEARBOX OIL (°F)	11157		ALGIN3-16		---

SIZE	DWG NO	REV
E	4295889	01

DO NOT SCALE | SHT WT (LB) NA | SHEET 23 OF 31

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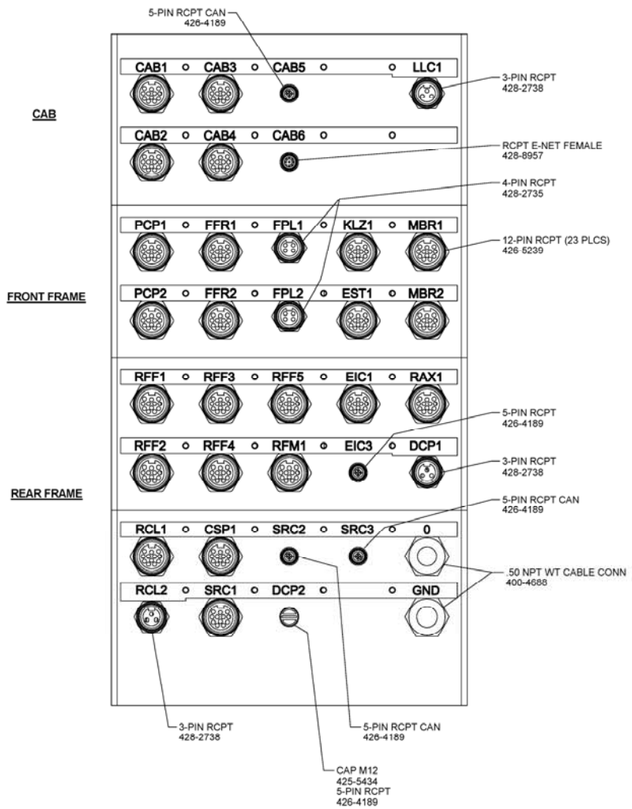
ELECTRICAL SCHEMATIC

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REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

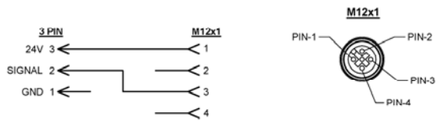
REFERENCE INFORMATION

CONNECTOR INDENTIFICATION BACK PANEL CONNECTOR LOW VOLT CONTROL CABINET (LVCC) 427-4479

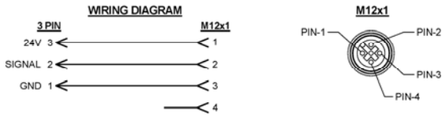


COMMON CABLES

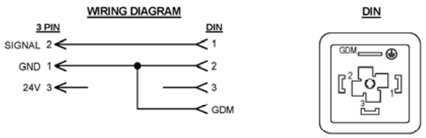
CABLE 3 PIN - M12x1 (GRAY) 426-5234



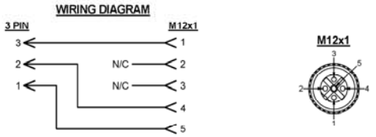
CABLE 3 PIN - M12x1 3 CONDUCTOR (YELLOW) 426-7338



CABLE 3 PIN - DIN (YELLOW) 426-5233

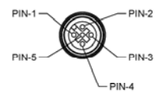


CABLE 3 PIN - M12x1 ENCODER (YELLOW) 428-9059



CONNECTOR COLOR CODES

5 PIN FEMALE CAN RECEPTACLE



PIN LEGEND	
PIN	COLOR
1	DRAIN
2	RED 24V
3	BLK GND
4	WHT (CAN_H)
5	BLU (CAN_L)

3 PIN FEMALE RECEPTACLE



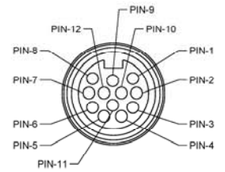
PIN LEGEND	
PIN	COLOR
1	GREEN
2	BLACK
3	WHITE

4 PIN FEMALE RECEPTACLE



PIN LEGEND	
PIN	COLOR
1	RED
2	GREEN
3	WHITE
4	BLACK

12 PIN FEMALE RECEPTACLE



PIN LEGEND	
PIN	COLOR
1	ORANGE
2	BLUE
3	WHITE/BLACK
4	RED/BLACK
5	GREEN/BLACK
6	ORANGE/BLACK
7	BLUE/BLACK
8	BLACK/WHITE
9	GREEN
10	RED
11	WHITE
12	BLACK

REFERENCE PART NUMBERS:

	ASSY CAB WITH ELECTRICS	427-4464
L1350 G3	GP HARNESS FRONT FRAME	428-9056
L1350 G3	GP HARNESS REAR FRAME	428-9027
	CABLE ASSY RPT/RTD FW1	428-6311
	CABLE ASSY RPT/RTD FW2	428-6312
	CABLE ASSY RPT/RTD GEN	428-6310
	CABLE ASSY RPT/RTD M1	428-6306
	CABLE ASSY RPT/RTD M2	428-6307
	CABLE ASSY RPT/RTD M3	428-6308
	CABLE ASSY RPT/RTD M4	428-6309
	BATTERY BOX ASSY	429-2797
	ISOLATION & SW BOX ASSY	427-0117
	MIRROR BAR HARNESS	428-9016
	REAR COWL HARNESS	428-6036

SIZE E | DWG NO 4295889 | REV 01
UNLESS OTHERWISE SPECIFIED | SCALE | DO NOT SCALE | DIST WT (LB) NA | SHEET | JN UP 21

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REVISION HISTORY						
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

BREAKOUT BOXES I/O

FFR1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
FFR1-J1	FFR1-07	AUTO LUBE SWITCHES	FFR1-J2	FFR1-01	UNUSED
FFR1-J3	FFR1-09	MAINTENANCE LIGHT LEFT FRONT	FFR1-J4	FFR1-02	FRONT SERVICE BRAKES XDCR
FFR1-J5	FFR1-03	AUTO LUBE SOL	FFR1-J6	FFR1-04	FRONT PARK BRAKES XDCR
FFR1-J7	FFR1-05	UNUSED	FFR1-J8	FFR1-06	FRONT PARK BRAKES SOL

FFR2

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
FFR2-J1	FFR2-07	LIFT ARM POSITION XDCR	FFR2-J2	FFR2-01	MAINTENANCE LIGHT RIGHT FRONT
FFR2-J3	FFR2-09	BELLCRANK TO LIFT ARM XDCR	FFR2-J4	FFR2-02	UNUSED
FFR2-J5	FFR2-03	CLAMSHELL CYL EXT XDCR **(OPT)**	FFR2-J6	FFR2-04	UNUSED
FFR2-J7	FFR2-05	FRONT DRIVER LUBE FLOW SWITCHES	FFR2-J8	FFR2-06	UNUSED

PCP1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
PCP1-J1	PCP1-07	BUCKET ROLLBACK PILOT SOL	PCP1-J2	PCP1-01	HOIST LOWER PILOT SOL
PCP1-J3	PCP1-09	BUCKET DUMP PILOT SOL	PCP1-J4	PCP1-02	HOIST RAISE PILOT SOL
PCP1-J5	PCP1-03	UNUSED	PCP1-J6	PCP1-04	BUCKET CYL ROD XDCR
PCP1-J7	PCP1-05	UNUSED	PCP1-J8	PCP1-06	UNUSED

PCP2

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
PCP2-J1	PCP2-07	GREATEST PILOT CMD XDCR	PCP2-J2	PCP2-01	CLAMSHELL OPEN PILOT SOL **(OPT)**
PCP2-J3	PCP2-09	HOIST CYL BASE XDCR	PCP2-J4	PCP2-02	PILOT SUPPLY XDCR
PCP2-J5	PCP2-03	CLAMSHELL CLOSE PILOT SOL **(OPT)**	PCP2-J6	PCP2-04	DUMP PRESS REDUCING SOL
PCP2-J7	PCP2-05	HOIST CYL ROD XDCR	PCP2-J8	PCP2-06	FLOAT SOL

RFF1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFF1-J1	RFF1-07	KLENZ RESERVOIR AIR XDCR	RFF1-J2	RFF1-01	HYD TANK DUMP SOL
RFF1-J3	RFF1-09	UNUSED	RFF1-J4	RFF1-02	UNUSED
RFF1-J5	RFF1-03	HYD RESERVOIR OIL TEMP XDCR	RFF1-J6	RFF1-04	STEER POSITION XDCR
RFF1-J7	RFF1-05	HYD RESERVOIR LEVEL SWITCH	RFF1-J8	RFF1-06	AUX FAN ENABLE SOL **(OPT)**

RFF2

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFF2-J1	24V ONLY	AIR DRYER HEATER	RFF2-J2	RFF2-01	RADIATOR FAN CONTROL SOL
RFF2-J3	RFF2-09	UNUSED	RFF2-J4	RFF2-02	MAINTENANCE LIGHT MIDDLE RIGHT
RFF2-J5	RFF2-03	* AUX STEER SUPPLY PRESS SWITCH **(OPT)**	RFF2-J6	RFF2-04	UNUSED
RFF2-J7	RFF2-05	* AUX STEER ENABLE **(OPT)**	RFF2-J8	RFF2-06	UNUSED

RFF3

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFF3-J1	RFF3-07	HOIST/BUCKET PUMP C XDCR	RFF3-J2	RFF3-01	ACCESSORY PUMP XDCR
RFF3-J3	RFF3-09	HOIST/BUCKET PUMP B XDCR	RFF3-J4	RFF3-02	STEER PUMP A XDCR
RFF3-J5	RFF3-03	HOIST/BUCKET PUMP A XDCR	RFF3-J6	RFF3-04	STEER PUMP B XDCR
RFF3-J7	RFF3-05	FAST HOIST PUMP XDCR	RFF3-J8	RFF3-06	HYD OIL COOLER BYPASS SOL

RFF4

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFF4-J1	RFF4-07	SYSTEM AIR PRESS XDCR	RFF4-J2	RFF4-01	HPD GEARBOX TEMP XDCR
RFF4-J3	RFF4-09	RADIATOR FAN PUMP PRESS XDCR	RFF4-J4	RFF4-02	HPD GEARBOX PRESS XDCR
RFF4-J5	RFF4-03	BLOWER PUMP PRESS XDCR	RFF4-J6	RFF4-04	HYD RESERVOIR AIR PRESS XDCR
RFF4-J7	RFF4-05	BLOWER SPEED SENSOR	RFF4-J8	RFF4-06	UNUSED

RFF5

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFF5-J1	RFF5-07	FRONT WASHER PUMP	RFF5-J2	RFF5-01	AMBIENT AIR TEMPERATURE XDCR
RFF5-J3	RFF5-09	REAR WASHER PUMP	RFF5-J4	RFF5-02	UNUSED
RFF5-J5	RFF5-03	UNUSED	RFF5-J6	RFF5-04	UNUSED
RFF5-J7	RFF5-05	BLOWER SPEED CONTROL SOL	RFF5-J8	RFF5-06	FIRE SYSTEM STATUS

RAX1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RAX1-J1	RAX1-07	REAR DRIVER LUBE FLOW SWITCHES	RAX1-J2	RAX1-01	UNUSED
RAX1-J3	RAX1-09	REAR PARK BRAKES SOL	RAX1-J4	RAX1-02	UNUSED
RAX1-J5	RAX1-03	REAR PARK BRAKES XDCR	RAX1-J6	RAX1-04	UNUSED
RAX1-J7	RAX1-05	REAR SERVICE BRAKES XDCR	RAX1-J8	RAX1-06	UNUSED

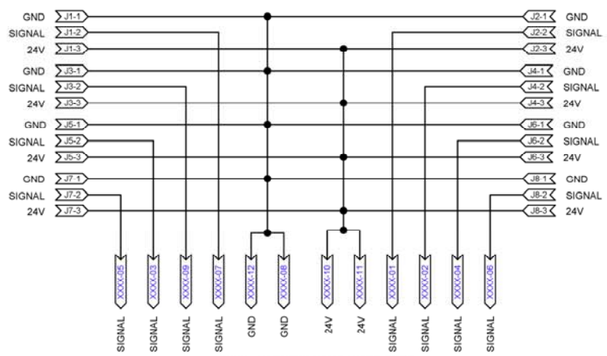
RFM1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFM1-J1	RFM1-07	RADIATOR FAN SPEED SENSOR	RFM1-J2	RFM1-01	ENGINE SAFETY FILTER RESTRICTION
RFM1-J3	RFM1-09	MAINTENANCE LIGHT MIDDLE LEFT	RFM1-J4	RFM1-02	UNUSED
RFM1-J5	RFM1-03	UNUSED	RFM1-J6	RFM1-04	FUEL LEVEL XDCR
RFM1-J7	RFM1-05	AUTO LUBE GREASE XDCR	RFM1-J8	RFM1-06	DRIVE COOL RESERVOIR LEVEL SWITCH

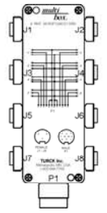
EST1

HARNESS CODE	DEVICE DESCRIPTION	HARNESS CODE	DEVICE DESCRIPTION
EST1-J1	RIGHT REAR E-STOP SWITCH	EST1-J2	LEFT REAR E-STOP SWITCH
EST1-J3	HV CABINET E-STOP SWITCH	EST1-J4	HYD RESERVOIR E-STOP SWITCH
EST1-J5	CAB E-STOP SWITCH		

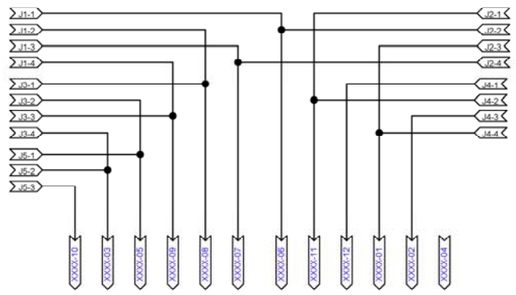
BREAKOUT BOX
426-5235



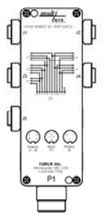
XXXX: HARNESS NAME / WIRE CODE



BREAKOUT BOX
427-4507
(E-STOP ONLY)



XXXX: HARNESS NAME / WIRE CODE



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DWG NO	REV
4295889	01

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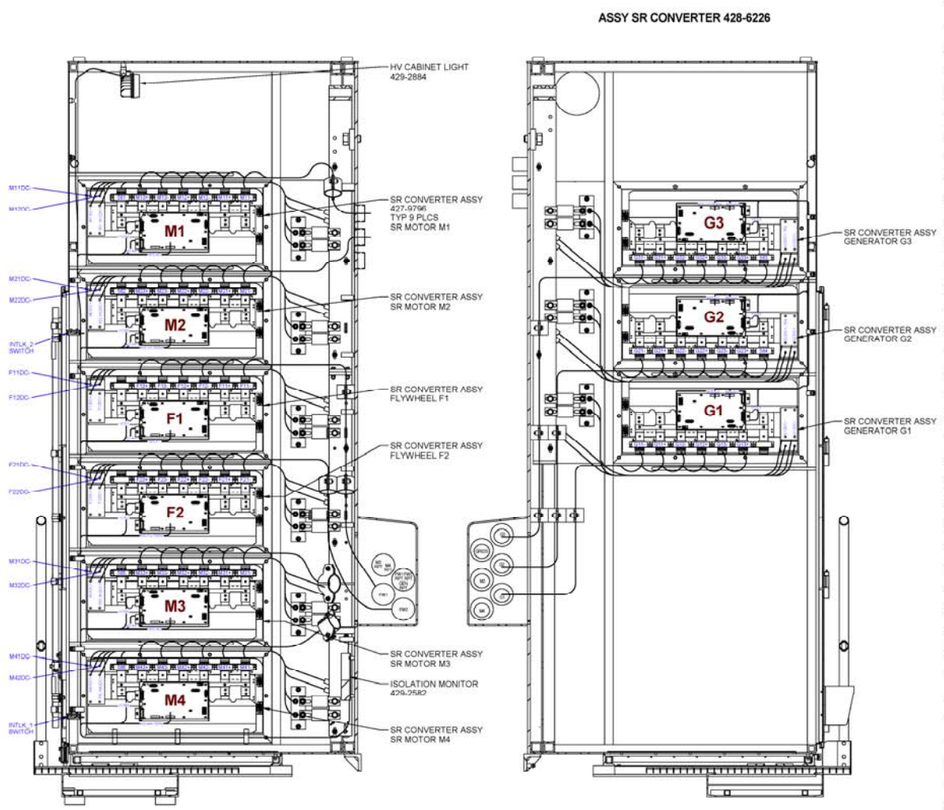
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HIGH VOLT CABINET ELECTRICS

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

CONVERTER / FUSE PANELS LOCATION

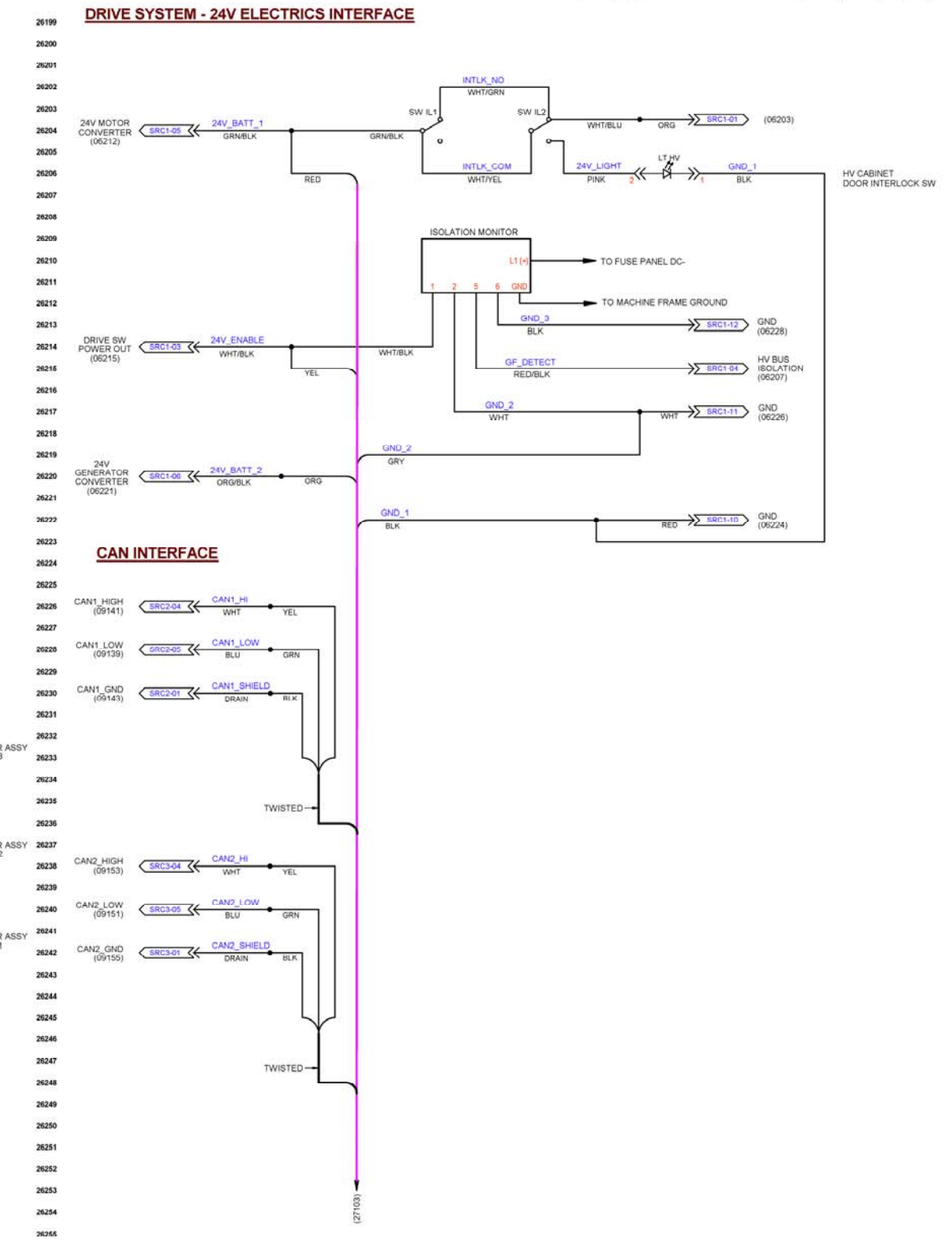
ASSY SR CONVERTER 428-6226



HV CABINET LEFT WALL

HV CABINET RIGHT WALL

DRIVE SYSTEM - 24V ELECTRICS INTERFACE



CAN INTERFACE

L1350 G3
HV CABINET SCHEMATIC

26

SIZE	ITEM TO	DWG NO	REV
E		4295889	01
DO NOT SCALE	DST WT (LB): NA	SHEET	26 OF 31

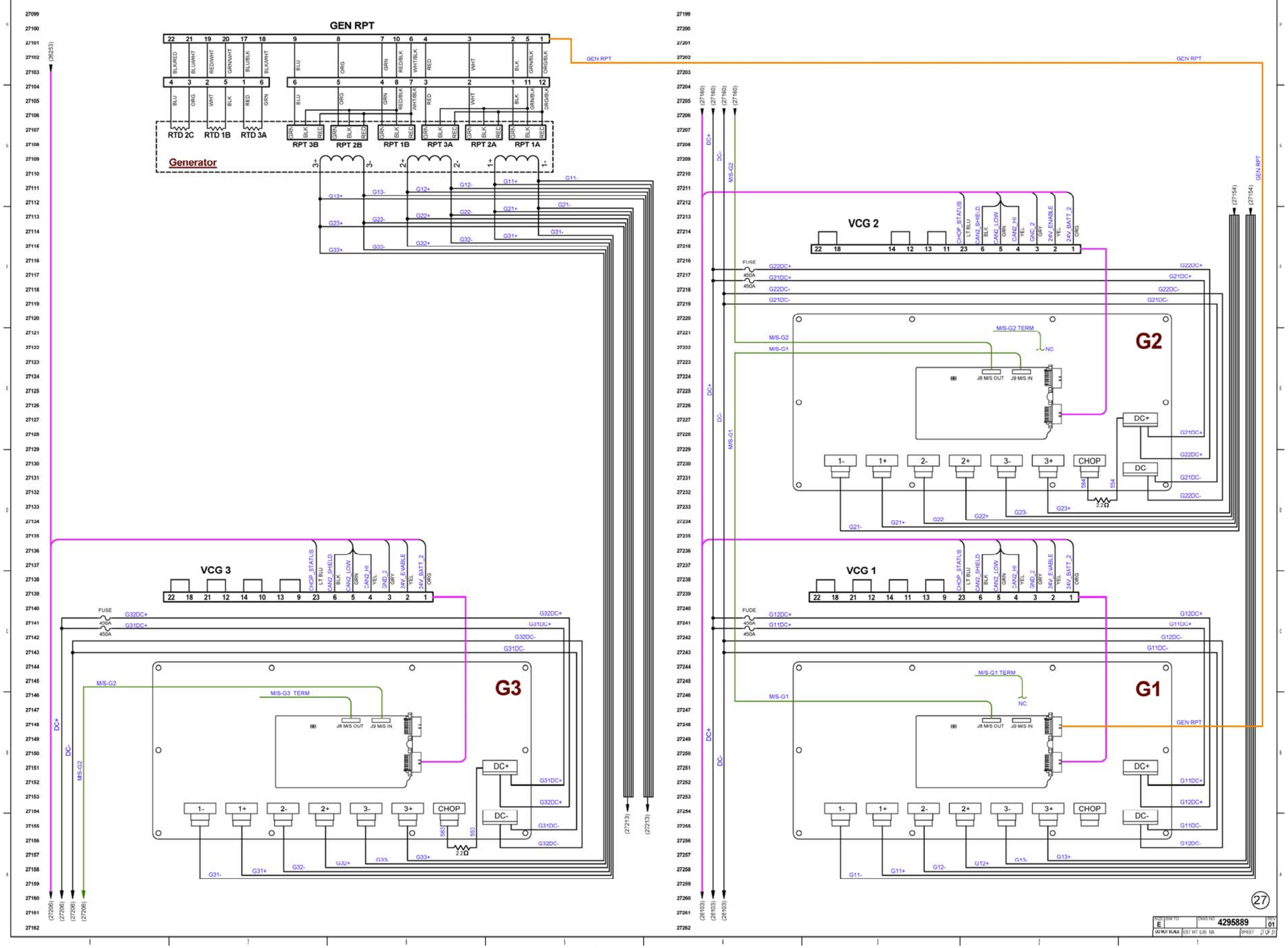
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SR GENERATORS

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS



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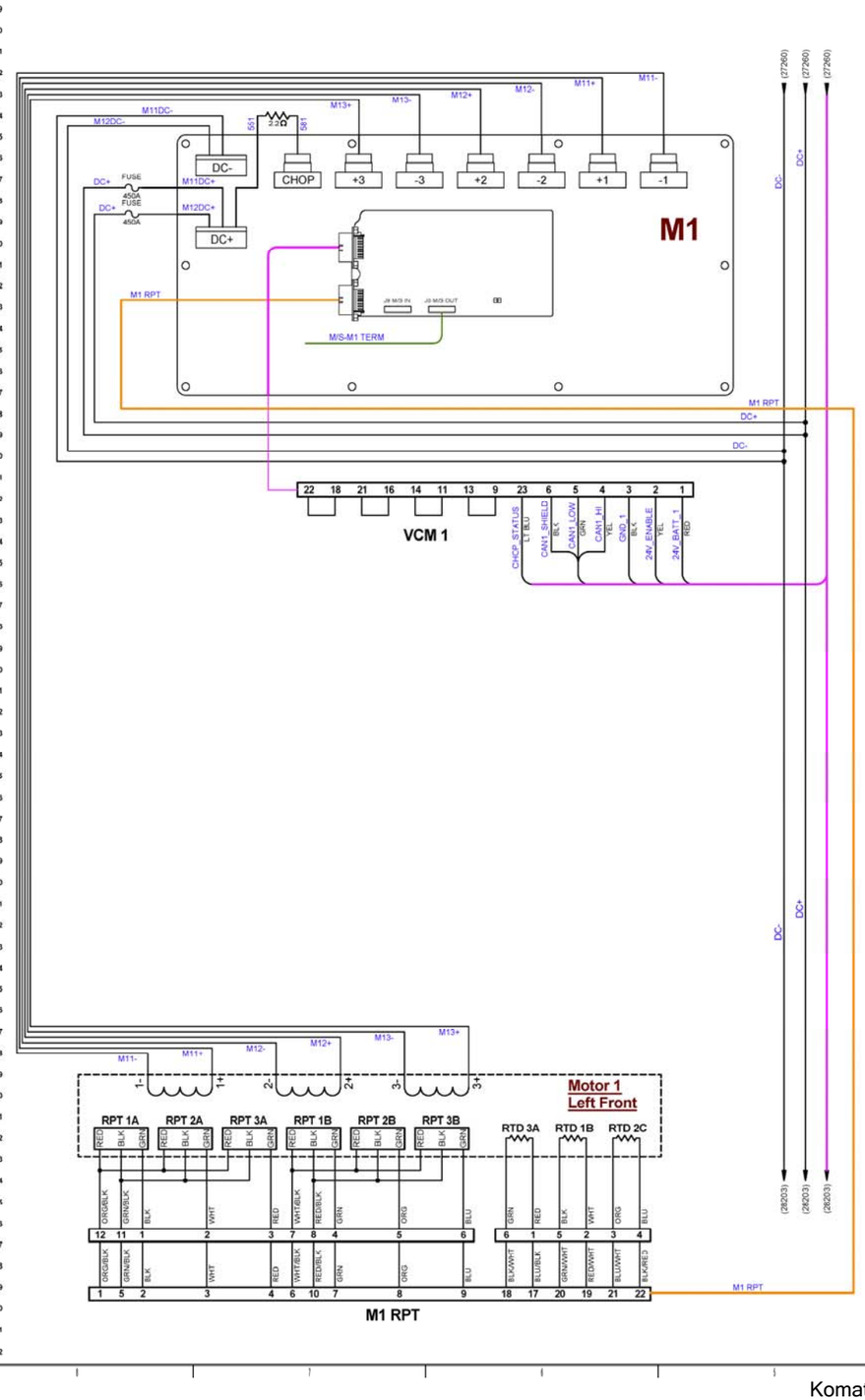
ELECTRICAL SCHEMATIC

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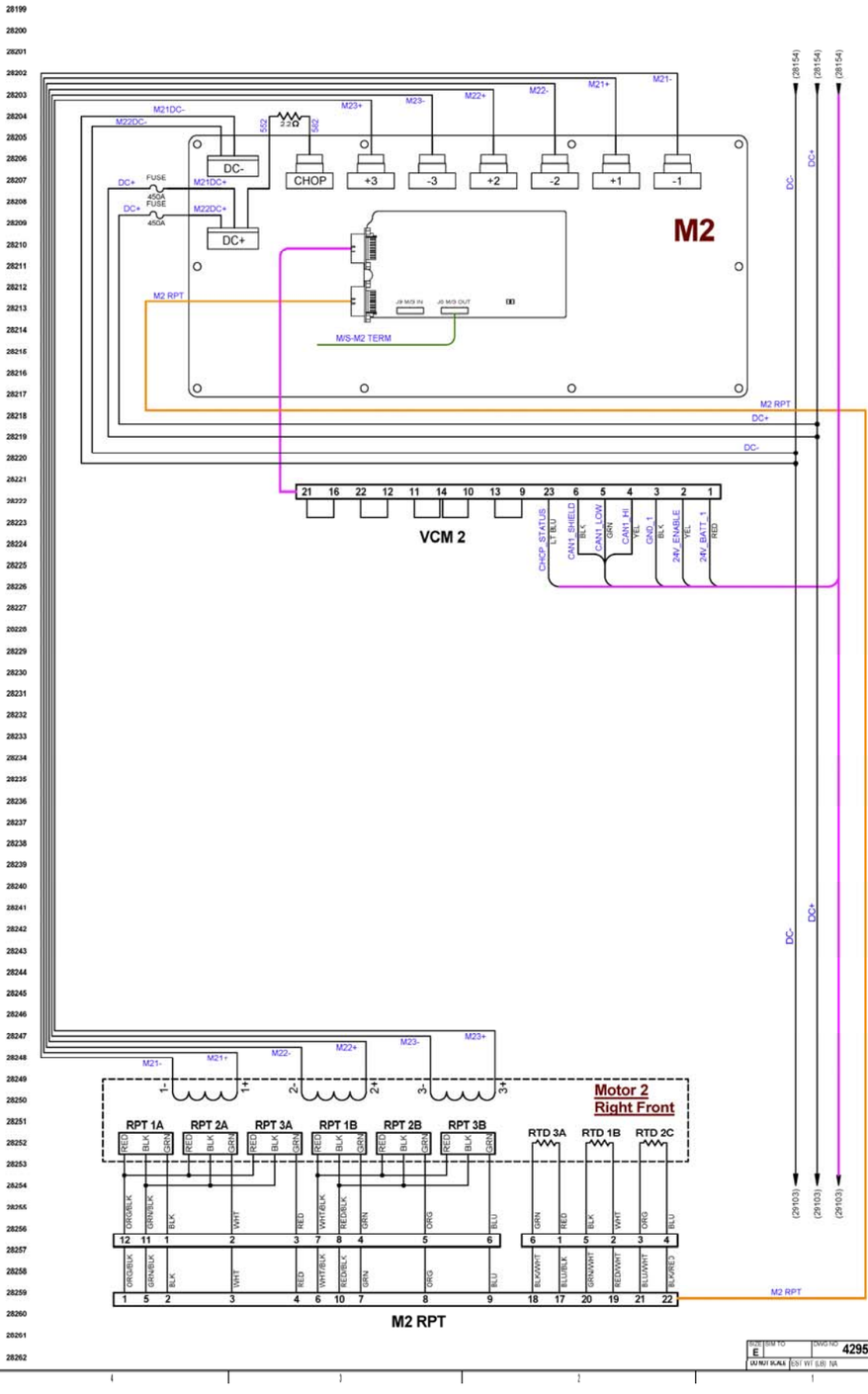
SR MOTORS

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

SR MOTOR 1



SR MOTOR 2



28

SIZE	DWG NO	REV
E	4295889	01

WEIGHT SCALE: EST WT (LB): NA SHEET 28 OF 31

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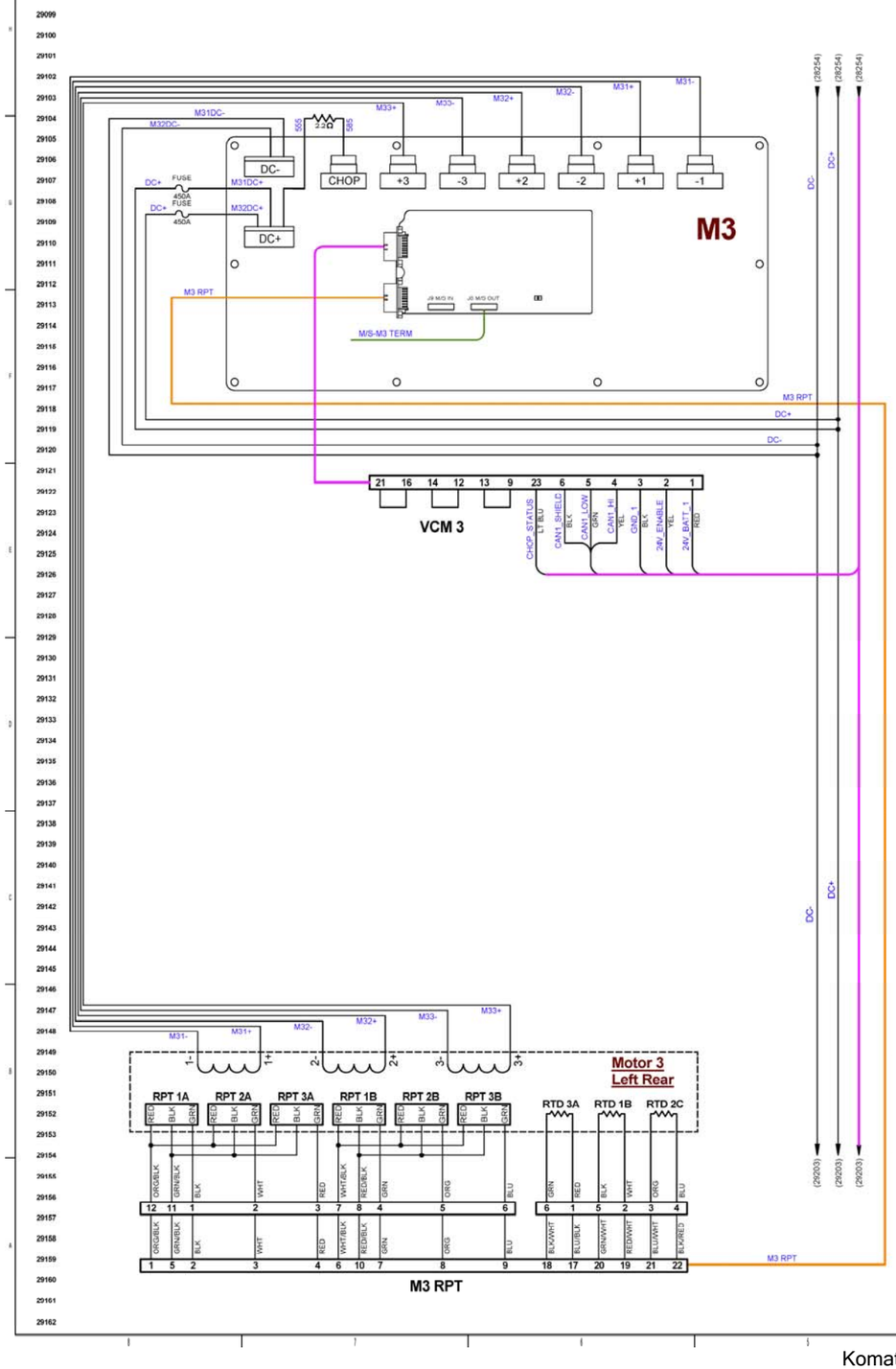
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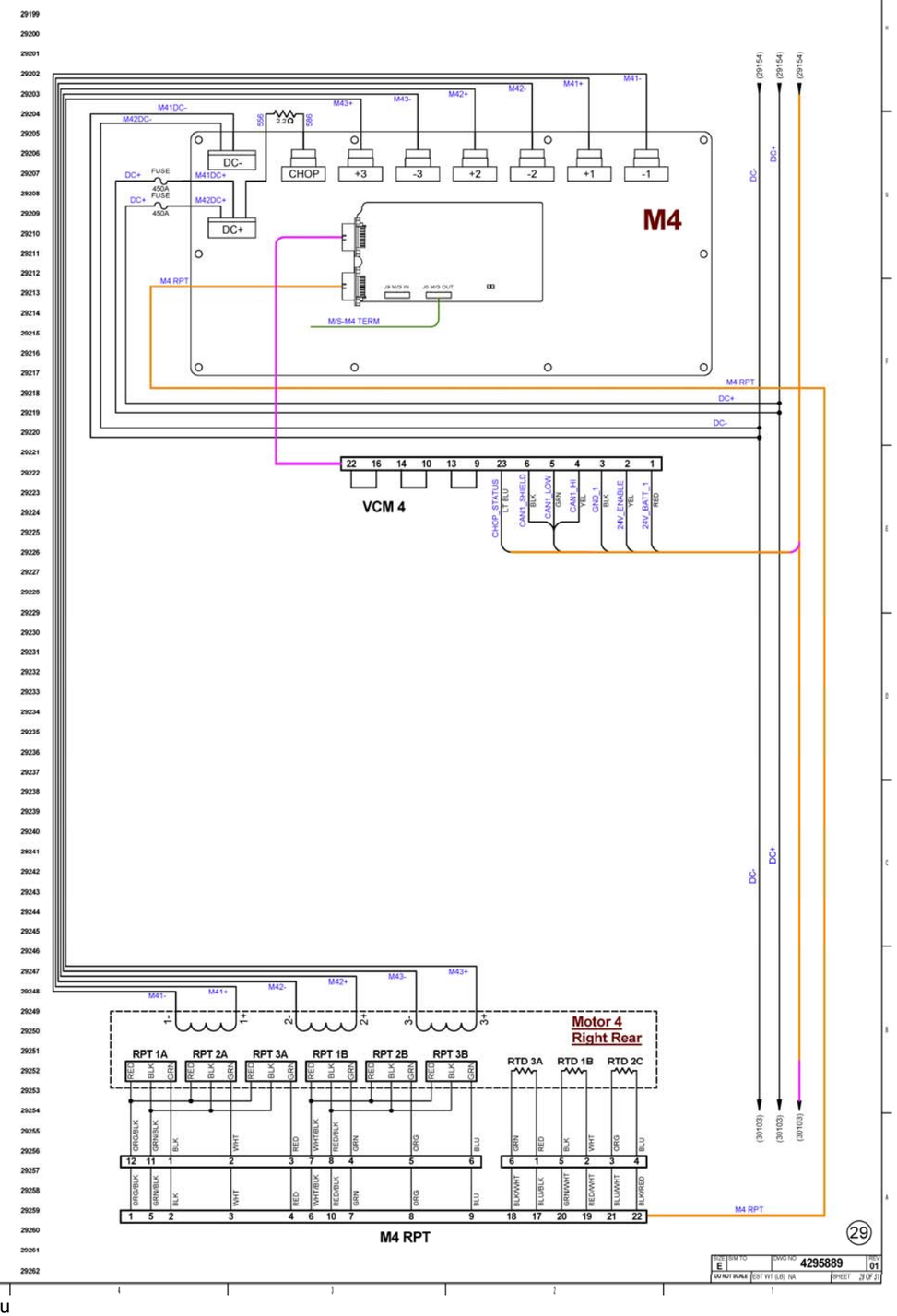
SR MOTORS (CONT.)

REVISION HISTORY						
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

SR MOTOR 3



SR MOTOR 4



29

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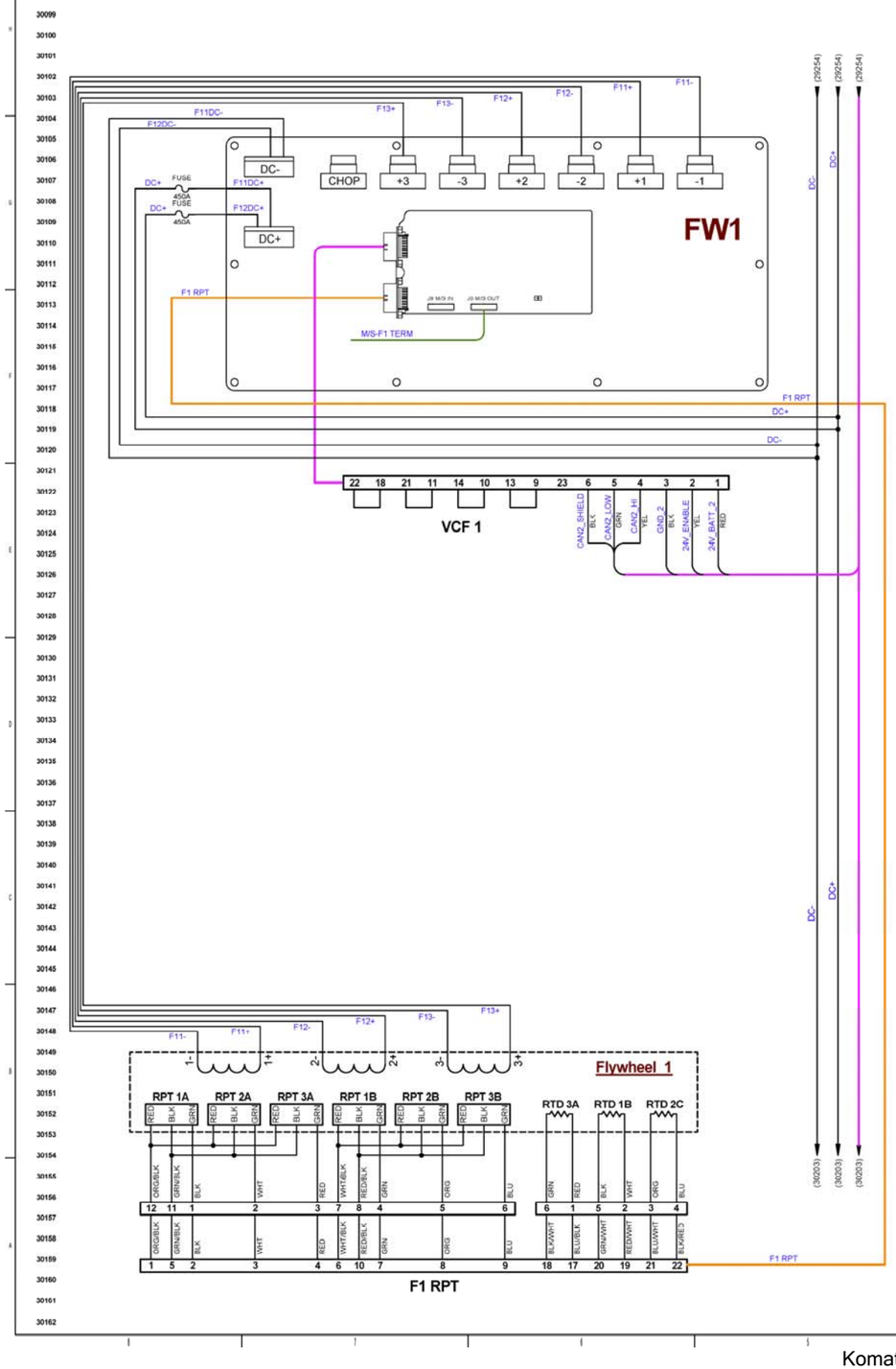
ELECTRICAL SCHEMATIC

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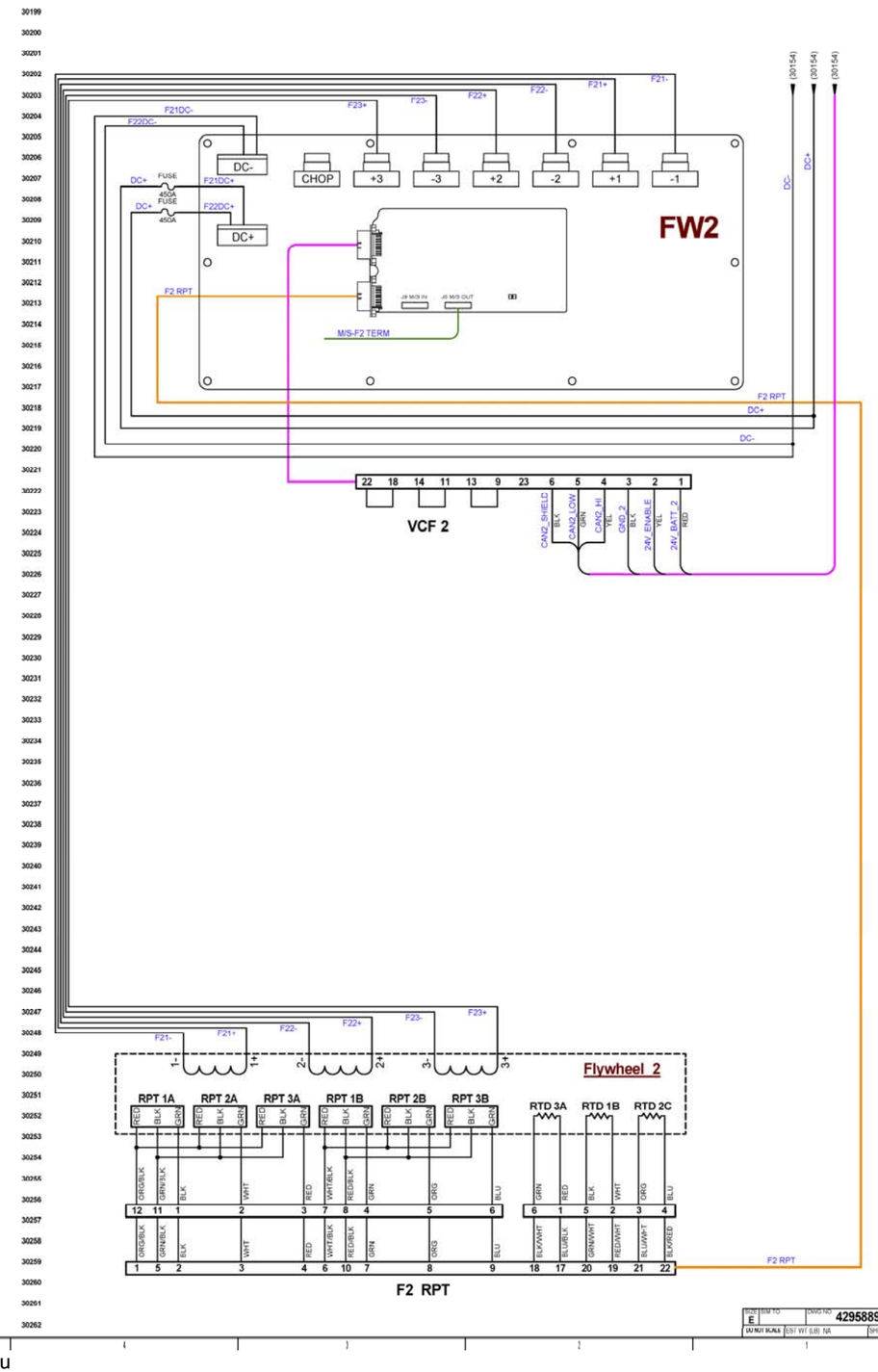
FLYWHEELS

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

FLYWHEEL 1



FLYWHEEL 2



SIZE	DWG NO	REV
E	4295889	01

SCALE: NA WT (LB): NA SHEET 30 OF 31

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ELECTRICAL SCHEMATIC

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REFERENCE INFORMATION - DRIVE SYSTEM

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	00	INITIAL RELEASE	1394315	2019-09-03	FL	BBD	JMS
	01	NO CHANGE THIS SHEET	1397539	2019-10-17	FL	BBD	JMS

DRIVE SYSTEM WIRE LOCATION CHART

WIRE CODE	LINE NO.
24V_BATT 1	26204,
	28124,28224,
	29124,29224
24V_BATT 2	26220,
	27139,27215,27239,
	30124,30224
24V_ENABLE	26214,
	27139,27215,27239,
	28124,28224,
	29124,29224,
	30124,30224
24V_LIGHT	26206
551	28104
552	28204
553	27156
554	27231
555	29104
556	29204
581	28104
582	28204
583	27156
584	27231
585	29104
586	29204
CAN1_HI	26226,
	28124,28224,
	29124,29224,
	30124,30224
CAN1_LOW	26228,
	28124,28224,
	29124,29224,
	30124,30224
CAN1_SHIELD	26230,
	28124,28224,
	29124,29224,
	30124,30224
CAN2_HI	26238,
	27139,27215,27239,
	30124,30224
CAN2_LOW	26240,
	27139,27215,27239,
	30124,30224
CAN2_SHIELD	26242,
	27139,27215,27239,
	30124,30224
CHOP_STATUS	27139,27215,27239,
	28124,28224,
	29124,29224

WIRE CODE	LINE NO.
DC+	27148,27208,27249,
	28107,28108,28118,
	28207,28208,28218,
	29107,29108,29118,
	29207,29208,29218
	30107,30108,30118,
	30207,30207,30218
DC-	27150,27209,27250,
	28107,28119,28207,28219,
	29107,29119,29207,29219,
	30107,30119,30207,30219
F1 RPT	30112,30117,30159
F11+	30102,30147
F11-	30102,30148
F11DC+	30107
F11DC-	30104
F12+	30102,30147
F12-	30102,30147
F12DC+	30108
F12DC-	30104
F13+	30103,30146
F13-	30103,30147
F2 RPT	30212,30217,30259
F21+	30202,30247
F21-	30202,30248
F21DC+	30207
F21DC-	30204
F22+	30202,30247
F22-	30202,30247
F22DC+	30208
F22DC-	30204
F23+	30203,30246
F23-	30203,30247
GEN RPT	27102,27202,27248
GF_DETECT	26215
GND_1	26206,26222,
	28124,28224,
	29124,29224
GND_2	26217,26219,
	27139,27215,27239,
	30124,30224
GND_3	26213
G11+	27110,27258
G11-	27110,27258
G11DC+	27241,27252
G11DC-	27243,27255
G12+	27111,27258
G12-	27111,27258
G12DC+	27240,27253
G12DC-	27242,27256
G13+	27111,27257
G13-	27111,27257

WIRE CODE	LINE NO.
G21+	27112,27234
G21-	27112,27234
G21DC+	27217,27228
G21DC-	27219,27231
G22+	27113,27234
G22-	27113,27234
G22DC+	27216,27229
G22DC-	27218,27232
G23+	27113,27233
G23-	27113,27233
G31+	27114,27158
G31-	27114,27158
G31DC+	27141,27152
G31DC-	27143,27155
G32+	27115,27158
G32-	27115,27158
G32DC+	27140,27153
G32DC-	27142,27156
G33+	27115,27157
G33-	27115,27157
INTLK_NO	26202
INTLK_COM	26206
M/S-F1 TERM	30114
M/S-F2 TERM	30214
M/S-G1	27229,27222,27246
M/S-G1 TERM	27244
M/S-G2	27145,27221
M/S-G2 TERM	27221
M/S-G3 TERM	27146
M/S-M1 TERM	28114
M/S-M2 TERM	28214
M/S-M3 TERM	29114
M/S-M4 TERM	29214
M1 RPT	28112,28117,28159
M11+	28102,28147
M11-	28102,28148
M11DC+	28107
M11DC-	28104
M12+	28102,28147
M12-	28102,28147
M12DC+	28108
M12DC-	28104
M13+	28103,28146
M13-	28103,28147
M2 RPT	28212,28217,28259
M21+	28202,28247
M21-	28202,28248
M21DC+	28207
M21DC-	28204

WIRE CODE	LINE NO.
M22+	28202,28247
M22-	28202,28247
M22DC+	28208
M22DC-	28204
M23+	28203,28246
M23-	28203,28247
M3 RPT	29112,29117,29159
M31+	29102,29147
M31-	29102,29148
M31DC+	29107
M31DC-	29104
M32+	29102,29147
M32-	29102,29147
M32DC+	29108
M32DC-	29104
M33+	29103,29146
M33-	29103,29147
M4 RPT	29212,29217,29259
M41+	29202,29247
M41-	29202,29248
M41DC+	29207
M41DC-	29204
M42+	29202,29247
M42-	29202,29247
M42DC+	29208
M42DC-	29204
M43+	29203,29246
M43-	29203,29247
SRC1-01	26203
SRC1-03	26214
SRC1-04	26215
SRC1-05	26204
SRC1-06	26220
SRC1-10	26222
SRC1-11	26217
SRC1-12	26213
SRC2-01	26230
SRC2-04	26226
SRC2-05	26228
SRC3-01	26242
SRC3-04	26238
SRC3-05	26240

SIZE E | DWG NO 4295889 | REV 01 | SHEET 31 OF 31

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ELECTRICAL SCHEMATIC

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4295889		ELECTRICAL SCHEMATIC		
			NOTE:		
			· NO ASSOCIATED PARTS LIST		

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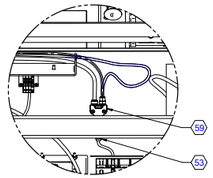
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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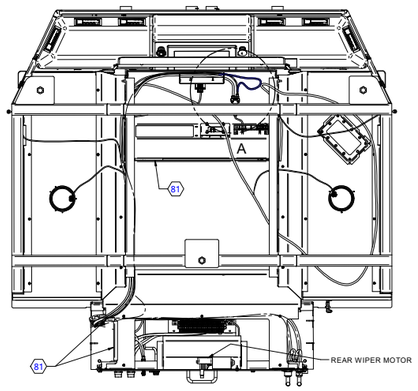
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CAB GROUP

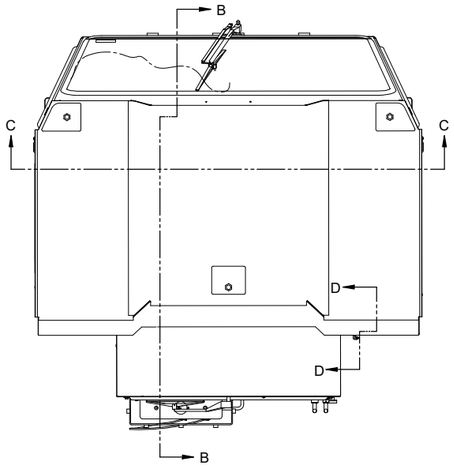
REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	26	ITEM 102 QTY WAS 7; ADDED ITEM 116-118	1406904	2020-03-16	AKN	BBD	JBD
	27	NO CHANGE THIS SHEET	1408158	2020-04-06	JFM	BBD	JMS



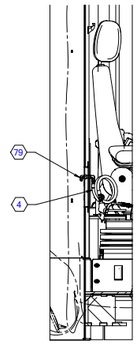
DETAIL A



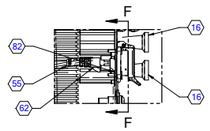
TOP VIEW OF CAB
(WITHOUT SKIN AND GLASS SHOWN)



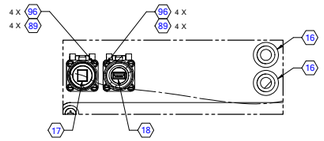
TOP VIEW OF CAB
(WITH SKIN AND GLASS SHOWN)



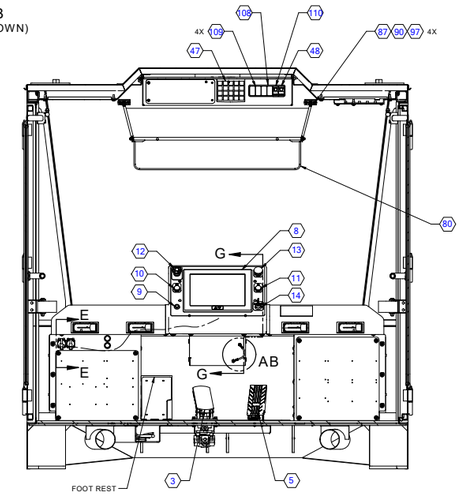
SECTION D-D



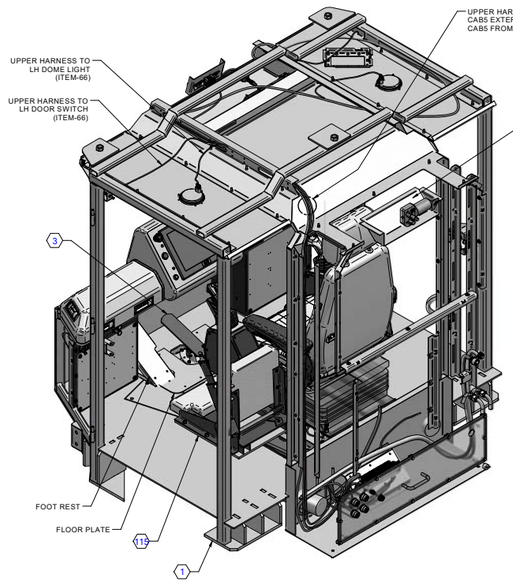
SECTION E-E



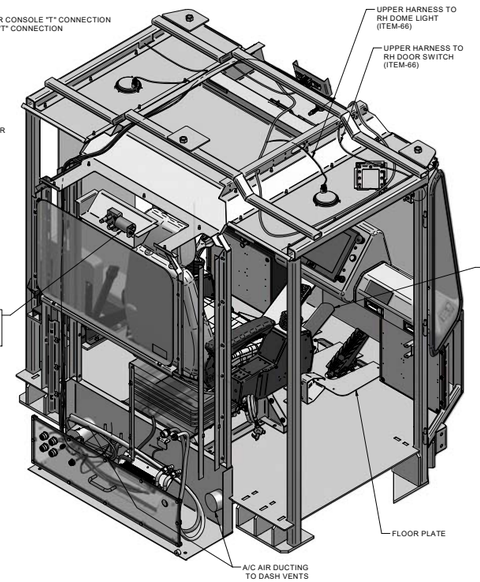
SECTION F-F



SECTION C-C



CABLE ROUTING VIEW
(OUTSIDE SKIN REMOVED FOR CLARITY)



CABLE ROUTING VIEW
(OUTSIDE SKIN REMOVED FOR CLARITY)

REFERENCE DRAWINGS:
429-2881: HMI LINCS II UNO 2484G-6731AE KIT

ITEM	PART NO.	QTY	DESCRIPTION
118	4010923	3	WASHER FLAT .250 .63 .065
117	4012935	3	NUT HX .250 NC G8 PL
116	4301752	3	BOLT HX .250 1.250 NC G8 FT
115	4268395	1	GRP TRAINING SEAT & MT LINCSII
114	4292887	1	CABLE TOUCH SCREEN HDMI 2M
113	4295369	1	MOUNT SLIDE PLATE - HMI
112	4295368	1	MOUNT PLATE - HMI
111	4274633	1	ASSY CAB 50 SERIES LINCS II
110	4289009	1	HORN ROCKER SWITCH 15A 24V
109	4279004	4	PANEL PLUG
108	4279003	1	6 SWITCH MOUNTING PANEL
107	4286127	1	ASSY DIN RAIL CAB REAR
106	4019411	9	WIRE TERM RT 22-16 #6 INS
105	4019420	2	WIRE TERM RT 16-14 .25 INS (BLU)
104	0989217	4	SCREW PH #8-32 UNC-2A x 5/8LG
103	0808476	4	BOLT HX .375 1.250 NC G8
102	4009612	4	BOLT HX .250 1.250 NC G8
101	0814157	2	BOLT HX .250 1.000 NC G8
100	4105637	2	BOLT HX .250 .50 NC SS
99	4264497	8	MSCR PH M4 - .70 X 10

ITEM	PART NO.	QTY	DESCRIPTION
98	4010283	4	MSCR PH #10 .500 NF
97	4012631	4	MSCR PH #10 .438 NF
96	4245454	8	MSCR PH #4 .500 NC SS
95	0506807	2	WASHER LOCK EXT .256 .51 .03
94	4259178	8	WSHR, SPR LK, M4 4.35 7.55 .9 SS
93	0184949	4	WASHER STAR EXT #8
92	0808221	4	WASHER FLAT .375 .81 .08
91	0753123	4	WASHER LOCK SPR .375 .68 .09
90	4010907	8	WASHER LOCK SPR .190 .334 .047
89	4010905	8	WASHER LCK SPR #4
88	0213584	5	WASHER LOCK SPR .25 .49 .06
87	0810880	4	WASHER FLAT .219 .50 .07
86	4010922	4	WASHER FLAT .188 .44 .07
85	4268321	4	NUT LOCK NYL INS M5
84	0812921	4	NUT HX .375 NC G8
83	4105645	2	NUT HEX, 1/4-20 UNC-2B SS
82	4240483	2	NUT PLATE - SHELL SIZE 18
81	4274680	1.5	SELF-GRIPPING VINYL EDGE
80	4116716	1	SUN VISOR ASSEMBLY 6 x 30
79	4020763	1	90/ADPT 1/4MJX1/4MJ BULKHEAD
78	4270334	1	KIT WINDSHIELD WASHER 10 LITER
77	4281257	1	KIT PREVAIL SYSTEM G2 LOADER
76	4266258	1	CODE SHEET CAB LINCS 2
75	4266261	1	LABELS LINCS II CAB DASH
74	4270205	91	FERRULE INSUL 16AWG .315LG INSERT BLK
73	4270206	20	FERRULE INSUL 14AWG .315LG INSERT BLUE
72	4185765	1	WEDGE LOCK, RECEPTACLE
71	4240206	1	WEDGE W3P DEUTSCH
70	4240201	1	WEDGE W3S DEUTSCH
69	4240205	3	CONTACT PIN SIZE 16
68	4185763	10	PIN CONTACT, SIZE 16
67	4153884	3	SOCKET CONTACT, SIZE 16
66	4240202	1	PLUG DT06-3S DEUTSCH
65	4212588	4.00	WIRE HOOKUP #18 AWG 1000V RED/WHT
64	4268381	1	HARNESS CAB LOWER
63	4268380	1	HARNESS CAB UPPER
62	4274679	1	CAT5e PATCH CABLE 3 FT
61	4274677	1	CAT5e PATCH CABLE 10 FT
60	4239844	1	COM PORT ADAPTER
59	4286130	1	CAN Y MALE - 2 FEM TURCK
58	4268538	1	CABLE RJ11 - OPEN 3M
57	4266246	1	CABLE EXT CAN 0.5M
56	4120401	34.00	CABLE #16 AWG EXANE LOCO 600V
55	4286141	2	CABLE USB 3.0 A MALE-A MALE 2M
54	4265838	2	CABLE EXT CAN 4.3M
53	4267774	1	CABLE KEYPAD LINCS II
52	4292880	1	CABLE VIDEO HDMI MALE TO VGA MALE 10FT
51	4259325	15	CONDUIT SLIT LOOM 1/4 INCH
50	4046896	6	CONDUIT SEAL RING .500
49	4265750	1	SWITCH NETWORK 4-PORT
48	4270329	1	ROCKER SWITCH 15A 24V
47	4264118	1	KEYPAD CAN LINCS II
38	4228700	2	MARKER DIN TERM BLOCK #1-10
34	4265756	5	BRACKET END PHOENIX 08 00 88 6
30	4228646	2	TERM BLOCK 2 TERM #24 - 10 AWG DIN GND
29	4227190	6	TERM BLOCK 1-2 TERM #10 AWG
28	4251863	1	RAIL MOUNTING 11.00 LONG DIN
27	4238908	1	RAIL MOUNTING 6 INCH LG DIN
26	4240204	1	RECEPTACLE DT04-3P DEUTSCH
25	4185761	1	RECEPTACLE 12 WAY
24	4264192	1	RCPT E-NET MALE-RJ45/2M
23	4266255	2	RCPT CAN FEED THRU
22	4264983	4	RECP 12 PIN MALE/4M 1/2-14NPT
21	4265239	1	RCPT 12 PIN FEM/3M 1/2-14NPT
20	4282738	1	RECEPTACLE 3 PIN FEMALE 1/2-14 NPSM
19	4265839	1	RECEPTACLE 3 PIN MALE 5M
18	4286140	1	RCPT USB-A 3.0 W/CAP
17	4265754	1	RCPT ETHERNET W/CAP
16	4100796	2	LIGHTER 12V
15	4094849	1	ALARM, ELECTRONIC
14	4270330	1	KEY SWITCH ASSEMBLY
13	4265193	1	OPERATOR PUSH PULL AMBER NC
12	4274443	1	E-STOP SWITCH, 22MM
11	4240171	1	LIGHT ASSY YELLOW LED SURPERBRIGHT
10	4240170	1	LIGHT ASSY RED LED SUPERBRIGHT
9	4239848	1	READ HEAD-IBUTTON
8	4284422	1	MONITOR, TOUCH SCREEN
6	4292931	1	HMI WITH LINCS II SOFTWARE
5	4259998	1	ACCELERATOR PEDAL 35° FIXED
4	4274391	1	ASSY AIR BLOW GUN G2
3	4274390	1	ASSY DUAL BRAKE VALVE
2	4267775	1	ASSY SEAT LINCS II
1	4286131	1	PLATE MOUNT CAN Y

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.66.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS .164 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: -

		DATE
DWN	jmartin	9-29-11
CHK	B.SHAFER	9-29-11
ENGR	B.SHAFER	9-29-11
PROD ENGR	B.SHAFER	9-29-11
PROJ APPROVAL		
MATL		

JOYGLOBAL

GP CAB WITH ELECTRICS

SIZE E | DO NOT SCALE | DWG NO 4274464 | REV 27

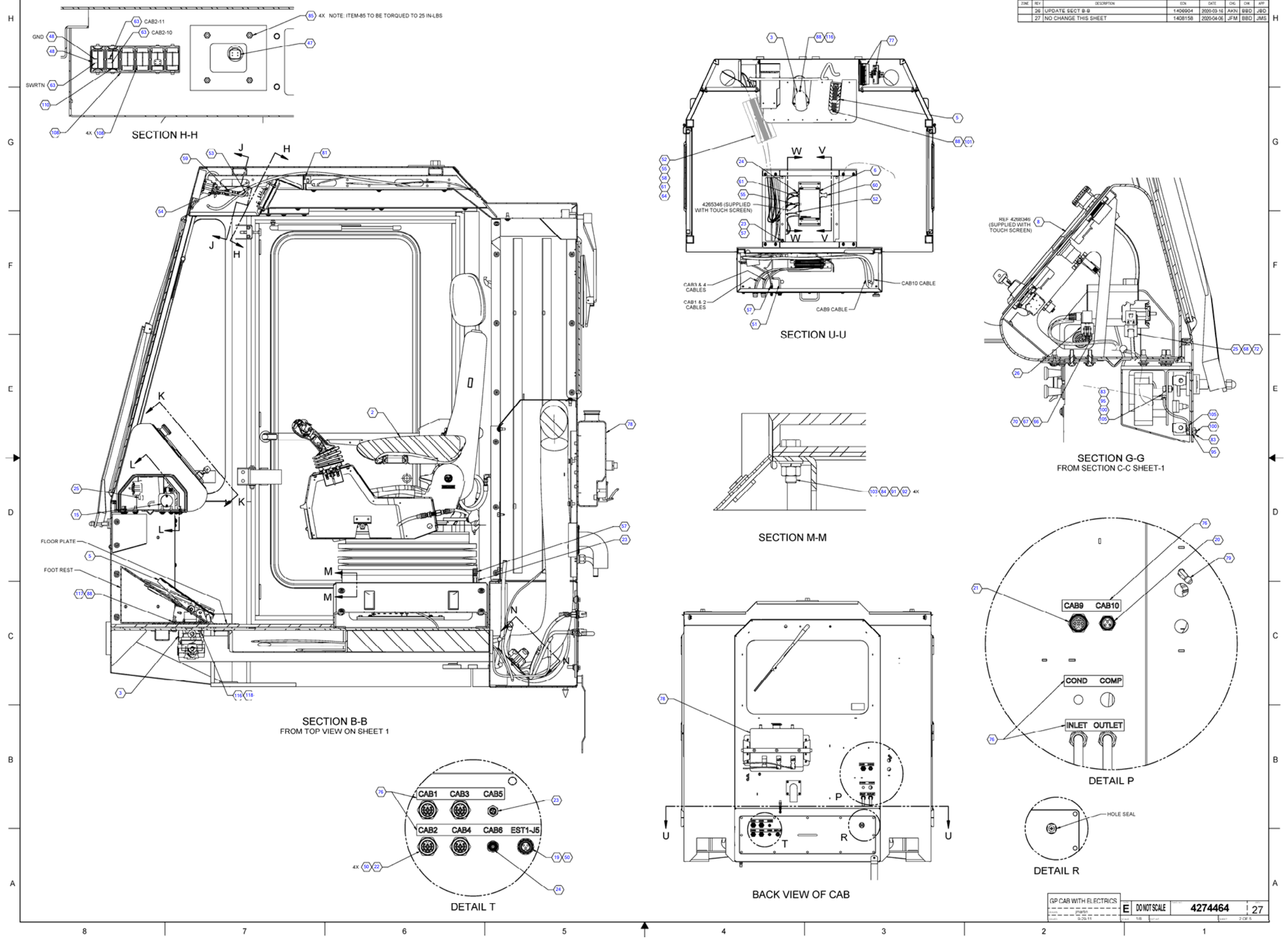
SCALE 1/8 | DO NOT SCALE | 2635.5 lbm | SHEET 1 OF 5

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CAB GROUP

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	DWG	CHK	APP
	26	UPDATE SECT B-B	1-409904	2020-03-16	AKN	BBD	JBD
	27	NO CHANGE THIS SHEET	1-408158	2020-04-06	JFM	BBD	JMS

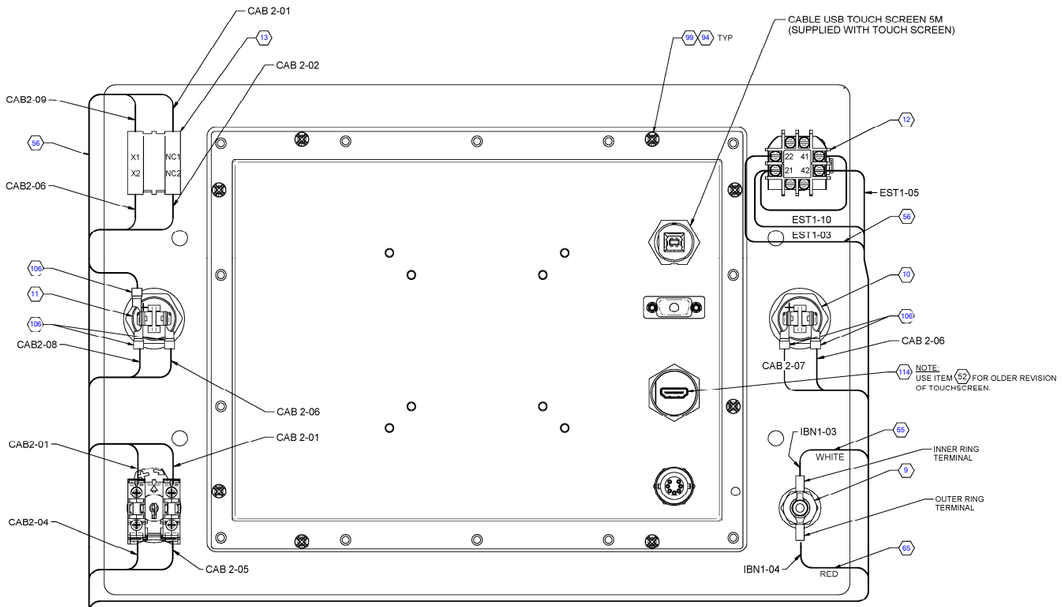


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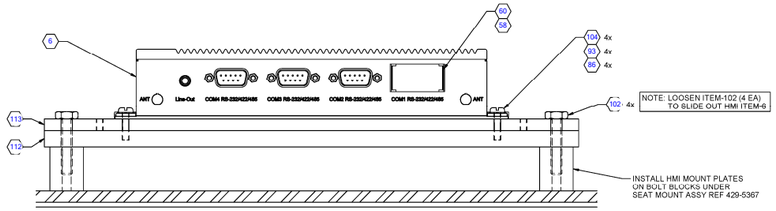
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CAB GROUP

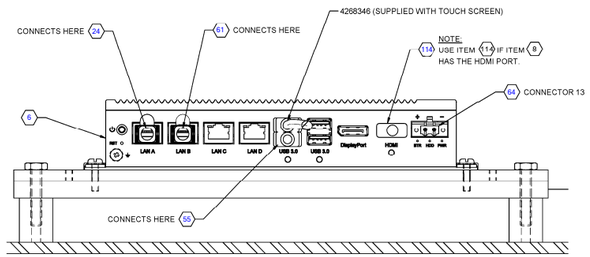
REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	APP
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	27	NO CHANGE THIS SHEET	1408158	2020-04-06	JFM	BBD	JMS



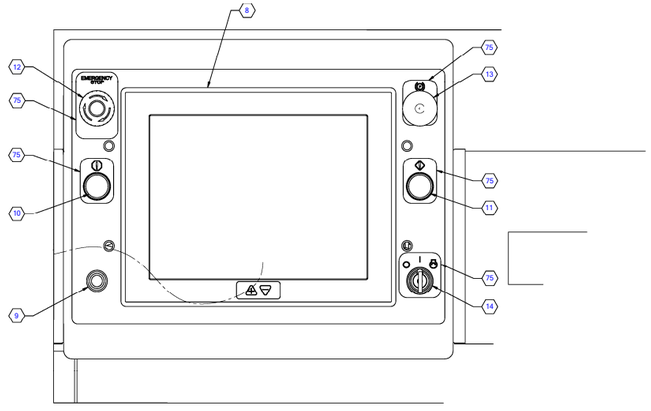
DASH CENTER CONSOLE WIRING VIEW
REAR VIEW OF DISPLAY



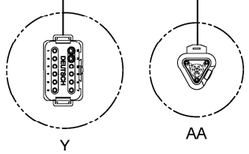
SECTION V-V
FROM SECTION U-U SHEET-2

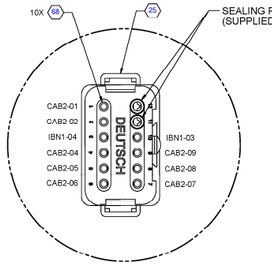


SECTION W-W
FROM SECTION U-U SHEET-2

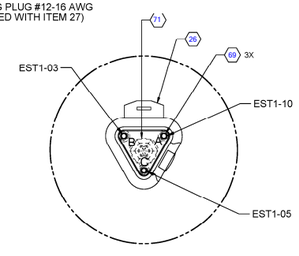


SECTION K-K
FROM SECTION B-B SHEET-2
(DASH CENTER CONSOLE FRONT VIEW)





DETAIL Y
RECEPTACLE 12 WAY



DETAIL AA
RECEPTACLE 3 WAY

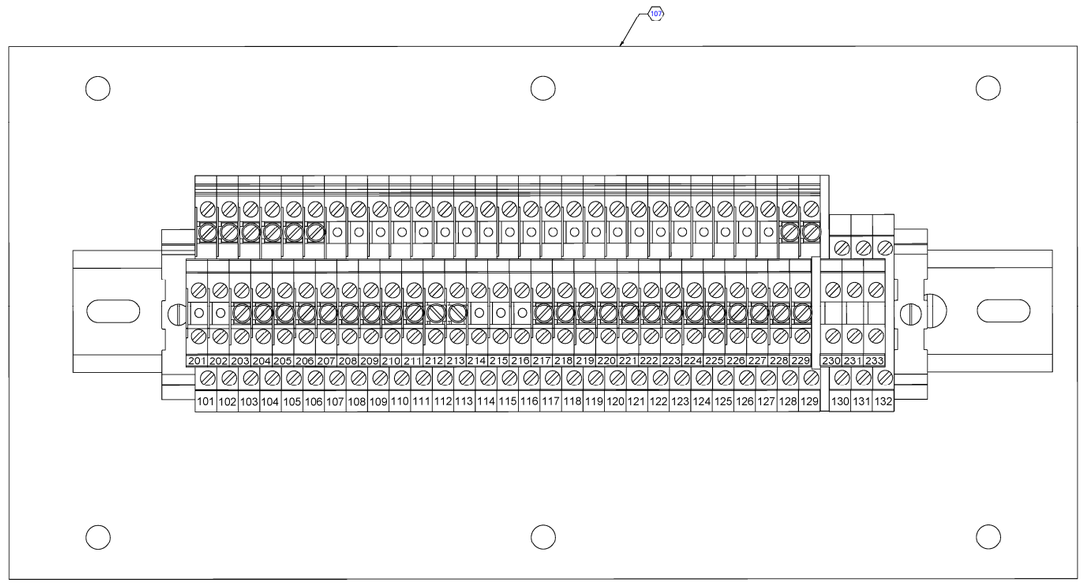
GP CAB WITH ELECTRICS
E
DO NOT SCALE
4274464
27
9-29-11
1/8
3 OF 5

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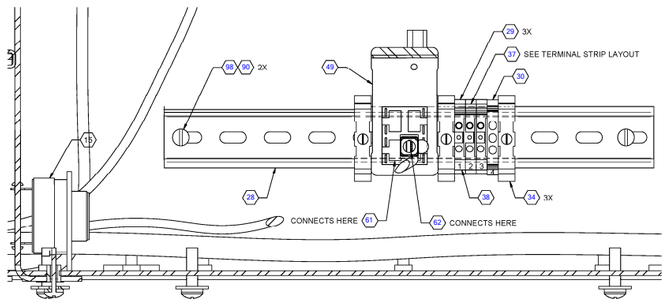
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CAB GROUP

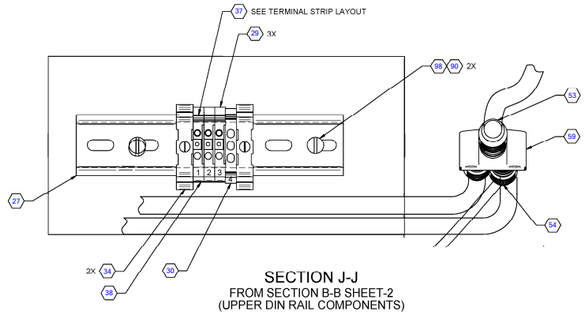
REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	DIR	APP
	26	NO CHANGE THIS SHEET	1409904	2020-03-16	AKN	BBD	JBD
	27	NO CHANGE THIS SHEET	1408158	2020-04-06	JFM	BBD	JMS



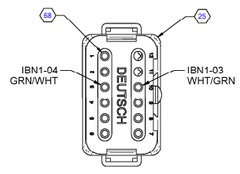
SECTION N-N
FROM SECTION B-B SHEET-2
(REAR DIN RAIL COMPONENTS)



SECTION L-L
FROM SECTION B-B SHEET-2
(DASH DIN RAIL COMPONENTS)



SECTION J-J
FROM SECTION B-B SHEET-2
(UPPER DIN RAIL COMPONENTS)



12 PIN DEUTSCH CONNECTOR
(ON LOWER HARNESS)

NOTES:

1) REMOVE WEDGE FROM 12 PIN DEUTSCH CONNECTOR ON LOWER HARNESS.

2) CRIMP PINS (ITEM-68) TO WIRES SHOWN ABOVE & LABEL APPROPRIATELY.

3) REMOVE PLUGS FROM UNUSED HOLES 3 & 10.

4) INSTALL PINS IN CORRECT HOLES AS SHOWN ABOVE.

5) REINSTALL THE WEDGE ON THE 12 PIN DEUTSCH CONNECTOR.

NOTE:
SEE TERMINAL BLOCK
TORQUE SPECIFICATIONS CHART
PRIOR TO INSTALLING WIRES
IN THE TERMINAL BLOCKS.

TORQUE SPECIFICATIONS CHART					
ITEM NO.	LTI P/N	MIN TORQUE (lb in)	MAX TORQUE (lb in)	MIN TORQUE (Nm)	MAX TORQUE (Nm)
29	4227190	5.3	7.1	0.6	0.8
31	4264183	5.3	7.1	0.6	0.8
30	4228646	5.3	7.1	0.6	0.8
32	4264180	5.3	7.1	0.6	0.8

TURCK12 AND 3 PIN CONECTORS

CONNECTOR-PIN WIRE CODE	WIRE COLOR	DESTINATION TERMINAL BLOCK
CAB1-01	ORN	101-L
CAB1-02	BLU	104-L
CAB1-03	WHT/BLK	208-L
CAB1-04	RED/BLK	209-L
CAB1-05	GRN/RI K	NC
CAB1-06	ORG/BLK	NC
CAB1-07	BLU/BLK	107-L
CAB1-08	BLK/WHT	108-L
CAB1-09	GRN	109-L
CAB1-10	RED	110-L
CAB1-11	WHT	111-L
CAB1-12	BLK	112-L
CAB2-01	ORN	113-L
CAB2-02	BLU	114-L
CAB2-03	WHT/BLK	115-L
CAB2-04	RED/BLK	116-L
CAB2-05	GRN/BLK	117-L
CAB2-06	ORN/BLK	118-L
CAD2-07	BLU/DLK	119-L
CAB2-08	BLK/WHT	120-L
CAB2-09	GRN	121-L
CAB2-10	RED	122-L
CAB2-11	WHT	123-L
CAB2-12	BLK	124-L
CAB3-01	ORN	201-L
CAB3-02	BLU	202-L
CAB3-03	WHT/BLK	203-L
CAB3-04	RED/BLK	205-L
CAB3-05	GRN/BLK	210-L
CAB3-06	ORN/BLK	204-L
CAB3-07	BLU/BLK	206-L
CAB3-08	BLK/WHT	211-L
CAB3-09	GRN	212-L
CAB3-10	RED	214-L
CAB3-11	WHT	215-L
CAB3-12	BLK	216-L
CAB4-01	ORN	217-L
CAB4-02	BLU	219-L
CAB4-03	WHT/BLK	222-L
CAB4-04	RED/BLK	224-L
CAB4-05	GRN/BLK	228-L
CAB4-06	ORN/BLK	228-L
CAB4-07	BLU/BLK	227-L
CAB4-08	DLK/WHIT	229-L
CAB4-09	GRN	218-L
CAB4-10	RED	220-L
CAB4-11	WHT	223-L
CAB4-12	BLK	225-L
CAB9-01	ORN	217-R
CAB9-02	BLU	219-R
CAB9-03	WHT/BLK	222-R
CAB9-04	RED/BLK	224-R
CAB9-05	GRN/BLK	128-R
CAB9-06	ORN/BLK	129-R
CAB9-07	BLU/BLK	127-L
CAB9-08	BLK/WHT	NC
CAB9-09	GRN	218-R
CAB9-10	RED	220-R
CAB9-11	WHT	223-R
CAB9-12	BLK	225-R
CAB10-1	GRN	221-L
CAB10-2	BLK	127-R

LOWER HARNESS

WIRE CODE	DESTINATION TERMINAL BLOCK
CAB1-01	101-R
	102-R
	103-R
CAB1-02	104-R
	105-R
	106-R
CAB1-07	107-R
CAB1-08	108-R
CAB1-09	109-R
CAB1-10	110-R
CAB1-11	111-R
CAB1-12	112-R
CAB2-01	113-R
CAB2-02	114-R
CAB2-03	115-R
CAB2-04	116-R
CAB2-05	117-R
CAB2-06	118-R
CAB2-07	119-R
CAB2-08	120-R
CAB2-09	121-R
CAB3-10	214-R
CAB3-11	215-R
CAB3-12	216-R
0D	203-R
0X	125-R
OEA	205-R
12V2	208-R
12V2	209-R
12V2	210-R
GND	130-R
GND	131-R
GND	230-R

AC HARNESS

WIRE COLOR	DESTINATION TERMINAL BLOCK
RED	226-R
BLK	228-R
LT GRN	128-L

EST1-J5 CONNECTOR *

CONNECTOR-PIN WIRE CODE	WIRE COLOR	DESTINATION 3PIN CONNECTOR-ITEMS 104,105 & 106
EST1-05	GRN	PIN C
EGT1-03	BLK	PIN B
EST1-10	WHT	PIN A

* CUT WIRES TO LENGTH NEEDED TO MATE WITH 3 PIN CONNECTOR ITEM 26 FROM THE E-STOP SWITCH

JUMPER

WIRE CODE	ORIGIN TERMINAL BLOCK	DESTINATION TERMINAL BLOCK
CAB3-09	213-L	225-L

UPPER HARNESS

WIRE CODE	DESTINATION TERMINAL BLOCK
CAB2-10	122-R
CAB2-11	123-R
CAB3-01	201-R
CAB3-02	202-R
CAB3-08	212-R
CAB3-09	213-R
0D	204-R
0EA	206-R
12V2	211-R
GND	132-R

TERMINAL STRIP LAYOUT

LOWER LEVEL TERMINAL BLOCK #	LABEL
101	CAB1-01
102	CAB1-01
103	CAB1-01
104	CAB1-0Z
105	CAB1-02
106	CAB1-02
107	CAB1-07
108	CAB1-08
109	CAB1-09
110	CAB1-10
111	CAB1-11
112	CAB1-12
113	CAB2-01
114	CAB2-02
115	CAB2-03
116	CAB2-04
117	CAB2-05
118	CAB2-06
119	CAB2-07
120	CAB2-08
121	CAB2-09
122	CAB2-10
123	CAB2-11
124	CAB2-12
125	0X
126	
127	HVAC2
128	HVAC1
129	HVAC1
130	
131	
132	

UPPER LEVEL TERMINAL BLOCK #	LABEL
201	CAB3-01
202	CAB3-02
203	0D
204	UU
205	0EA
206	0EA
207	0EA
208	12V2
209	12V2
210	12V2
211	12V2
212	CAB3-09
213	CAB3-09
214	CAB3-10
215	CAB3-11
216	CAB3-12
217	0TA1
218	0TA1
219	HVAC4
220	HVAC4
221	I VAC4
222	0TA2
223	0TA2
224	HVAC3
225	HVAC3
226	CAB4-05
227	CAB4-07
228	CAB4-06
229	CAB4-08
230	
231	
232	

LOWER CONSOLE

1	0D
2	0EA
3	12V2
4	

UPPER CONSOLE

1	0D
2	0EA
3	12V2
4	

LEGEND

205-R

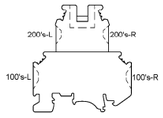
TERMINAL BLOCK #
1's & 10's: SINGLE LEVEL TERMINAL BLOCK
100's: LOWER LEVEL TERMINAL BLOCK
200's: UPPER LEVEL TERMINAL BLOCK

SIDE
L: LEFT HAND SIDE (BOTTOM)
R: RIGHT HAND SIDE (TOP)

[: TERMINAL BRIDGE

—: SEPERATING PLATE

———: SPACER COVER



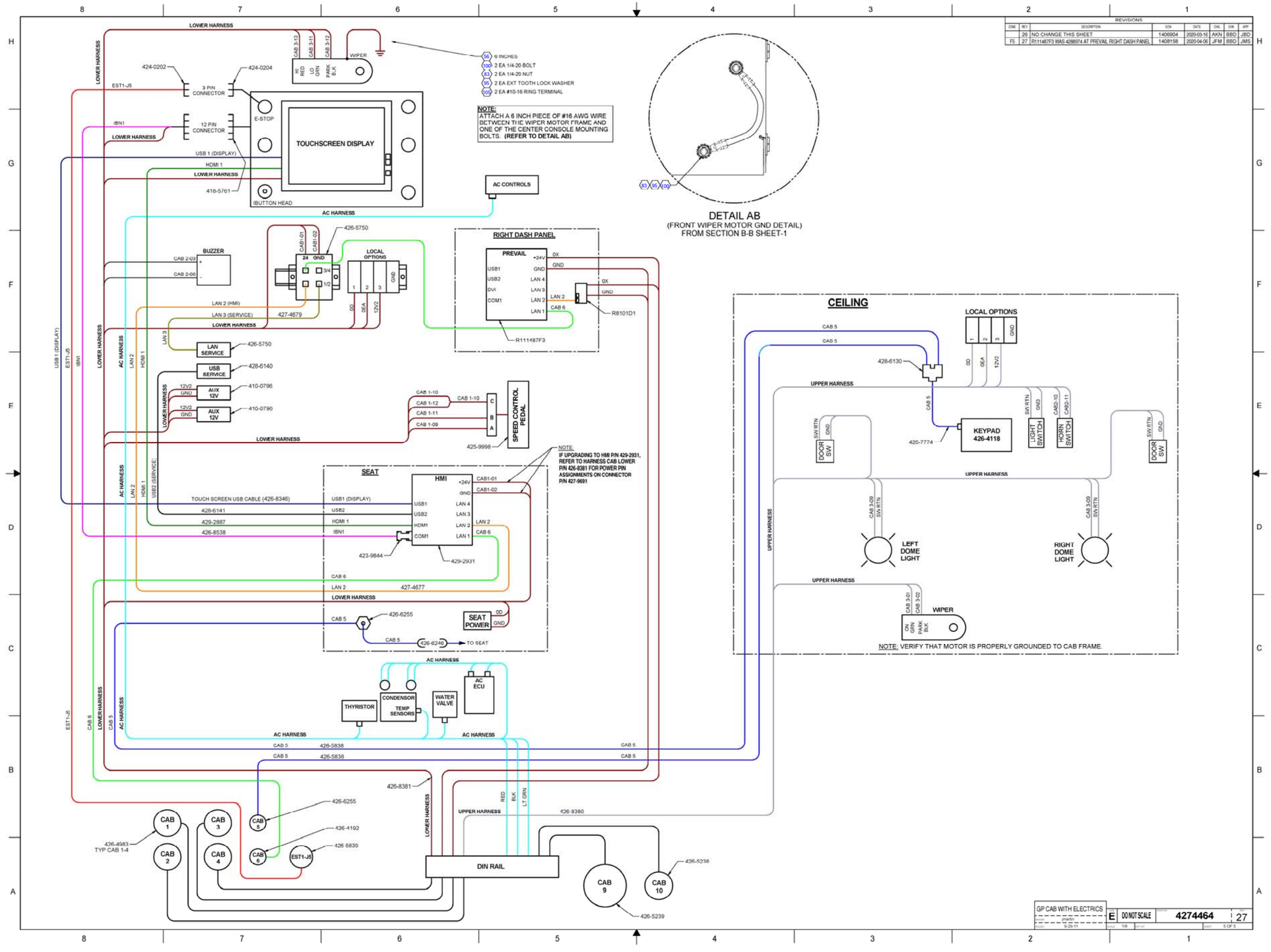
TERMINAL BLOCK LAYOUT

GP CAB WITH ELECTRICS				
DRAWN jmeh 9-29-11	E	DO NOT SCALE	DRAWING NO. 4274464	REV 27
DESIGN	SCALE 1/8	WEIGHT	SHEET 4 OF 5	

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4274464			CAB GROUP		5/27/20
1	R4286131	1		· MOUNT PLATE, CAN Y		10/24/18
2	R4267775	1		· SEAT ASSEMBLY, OPERATOR'S - LINCS II (PAGE 1.19-1.19A)		
3	R4274390	1		· VALVE, BRAKE (PAGE 8.17-8.17A)		
4	R4274391	1		· AIR BLOW GUN GROUP		
	R4175957	1		· · AIR BLOW GUN		
	R4131743	1		· · HOSE ASSEMBLY, #4 X 64"		
	R4016785	1		· · ADAPTER, 1/4" MP X #4 MJ		
	R4116444	1		· · ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
5	R4259998	1		· PEDAL ASSEMBLY, SPEED CONTROL - 35 deg. FIXED (PAGE 5.9-5.9A)		
6	R4292931	1		· HMI WITH LINCS SOFTWARE		8/30/19
7	N.P.N.			· NOT USED		10/24/18
8	R4274714	1		· TOUCH SCREEN ASSEMBLY - LINCS II (SEE NOTE)		1/6/17
	R4289422	1		· · TOUCH SCREEN - LINCS II (SEE NOTE)		10/24/17
	R4274637	1		· · MOUNT BRACKET ASSEMBLY, DISPLAY		1/6/17
	R4274638	1		· · MOUNT PANEL, DISPLAY		1/6/17
	R4274639	1		· · DASH MOUNT, REAR		1/6/17
	R4274634	1		· · DASH PANEL, CENTER		1/6/17
9	R4239848	1		· I BUTTON READER SOCKET		
10	R4240170	1		· LIGHT ASSEMBLY, INDICATOR - RED		
11	R4240171	1		· LIGHT ASSEMBLY, INDICATOR - AMBER		
12	R4274443	1		· E-STOP, TWIST RELEASE		
13	R4265193	1		· SWITCH, PUSH PULL - AMBER, N.C.		
14	R4270330	1		· KEYSWITCH ASSEMBLY		
15	R4094849	1		· ALARM, ELECTRONIC BUZZER		
16	R4100796	2		· LIGHTER, 12V		
17	R4265754	1		· RECEPTACLE, ETHERNET W/CAP		
18	R4286140	1		· RECEPTACLE, USB-A W/CAP		8/5/16
19	R4265839	1		· RECEPTACLE, 3 PIN - MALE		
20	R4282738	1		· RECEPTACLE, 3 PIN - FEMALE		
21	R4265239	1		· RECEPTACLE, 12 PIN - FEMALE		
22	R4264983	4		· RECEPTACLE, 12 PIN - MALE		
23	R4266255	2		· RECEPTACLE, CAN FEED THRU		
24	R4264192	1		· RECEPTACLE, E-NET - MALE		
25	R4185761	1		· RECEPTACLE, 12 WAY		
26	R4240204	1		· RECEPTACLE		
27	R4238908	1		· MOUNTING RAIL, 6" DIN		
28	R4251863	1		· MOUNTING RAIL, 11" DIN		
29	R4227190	6		· TERMINAL BLOCK, 1-2 TERMINAL - #10 AWG		
30	R4228646	2		· TERMINAL BLOCK, 2 TERM.		
31	N.P.N.			· NOT USED		8/5/16
32	N.P.N.			· NOT USED		8/5/16
33	N.P.N.			· NOT USED		8/5/16
34	R4265756	5		· BRACKET END		
35	N.P.N.			· NOT USED		8/5/16
36	N.P.N.			· NOT USED		8/5/16
37	N.P.N.			· NOT USED		8/5/16
38	R4228700	2		· MARKER, DIN - TERMINAL BLOCK, #1-10		
39	N.P.N.			· NOT USED		8/5/16
40	N.P.N.			· NOT USED		8/5/16
41	N.P.N.			· NOT USED		8/5/16
42	N.P.N.			· NOT USED		8/5/16
43	N.P.N.			· NOT USED		8/5/16
44	N.P.N.			· NOT USED		8/5/16
45	N.P.N.			· NOT USED		8/5/16

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
46	N.P.N.			· NOT USED		8/5/16
47	R4264118	1		· KEYPAD, CAN - LINCS II		
48	R4270329	1		· SWITCH, ROCKER - 15A 24V		
49	R4265750	1		· SWITCH, NETWORK 4 PORT		
50	R4046896	6		· RING, SEALING - 1/2" - CONDUIT		
51	R4259325	15		· CONDUIT, SLIT LOOM - 1/4"		
52	R4292880	1		· CABLE, VIDEO - HDMI MALE TO VGA MALE, 10 '		8/30/19
53	R4267774	1		· CABLE, KEYPAD - LINCS II		
54	R4265838	2		· CABLE EXTENSION, CAN 4.3M		
55	R4286141	1		· CABLE, USB 3.0 A - MALE-A MALE 2M		8/5/16
56	R4120401	34		· CABLE, #16 AWG - 600V		
57	R4266246	1		· CABLE EXTENSION, CAN .5M		
58	R4268538	1		· CABLE, RJ11 - OPEN 3M		
59	R4286130	1		· CABLE Y, CAN - 1 MALE-2 FEMALE		8/5/16
60	R4239844	1		· ADAPTER, COM PORT		
61	R4274677	1		· CABLE, CAT5 PATCH - 10'		
62	R4274679	1		· CABLE, CAT5 PATCH - 3'		
63	R4268380	1		· HARNESS, CAB UPPER		
64	R4268381	1		· HARNESS, CAB LOWER		
65	R4212588	4	FT	· WIRE HOOKUP, #18 AWG - 1000V		
66	R4240202	1		· PLUG		
67	R4153884	3		· SOCKET, CONTACT - 16		1/21/16
68	R4185763	10		· PIN, CONTACT - SIZE 16		
69	R4270205	3		· FERRULE, INSULATED - 16AWG .315LG BLACK		
70	R4240201	1		· WEDGE, W3S		
71	R4240206	1		· WEDGE, W3P		
72	R4185765	1		· WEDGE LOCK, RECEPTACLE		
73	R4270206	20		· FERRULE, INSULATED - BLUE		
74	R4240205	91		· PIN, CONTACT - 16		
75	R4266261	1		· LABELS, LINCS II - CAB DASH		
76	R4266258	1		· CODE SHEET, CAB LINCS II		
77	R4281257	1		· PREVAIL SYSTEM		
	R81019D1	1		· · ROUTER, RMT		5/27/20
	R0810880	3		· · FLATWASHER, #10		5/27/20
	R4012632	5		· · SCREW, #10-32 X 5/8" - P.H.		5/27/20
	R4020576	3		· · LOCKNUT, #10-32 - NYLON		5/27/20
	R4228648	2		· · BRACKET, END		5/27/20
	R4228787	1		· · RAIL MOUNT, 4"		5/27/20
	R4274679	2		· · CABLE, CAT5 PATCH - 3'		5/27/20
	R111487F3	1		· · DATA LOGGER, PREVAIL		5/27/20
78	R4270334	1		· WINDSHIELD WASHER KIT, 10 LITER		
79	R4020763	1		· ELBOW, #4 MJ X 90 deg. X #4 MJ - BULKHEAD		
80	R4116716	1		· SUNVISOR, 6" X 30"		
81	R4274680	2	FT	· VINYL EDGE, SELF-GRIPPING		
82	R4240483	2		· NUT PLATE, #18		
83	R4105645	2		· NUT, 1/4"-20 - S.S.		
84	R0812921	4		· NUT, 3/8"-16		
85	R4268321	4		· LOCKNUT, 5 MM - NYLON		
86	R4010922	4		· FLATWASHER, 3/16"		
87	R0810880	4		· FLATWASHER, #10		
88	R0213584	9		· LOCKWASHER, 1/4"		
89	R4010905	8		· LOCKWASHER, #4		
90	R4010907	8		· LOCKWASHER, #10		
91	R0753123	4		· LOCKWASHER, 3/8"		
92	R0808221	4		· FLATWASHER, 3/8"		
93	R0184949	4		· LOCKWASHER, #8 - EXTERNAL, TOOTH		
94	R4259178	8		· LOCKWASHER, 4M		
95	R0506807	2		· LOCKWASHER, 1/4" - EXT. TOOTH		

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
96	R4245454	8		· SCREW, #4-40 X 1/2" - S.S.		
97	R4012631	4		· SCREW, #10-32 X 7/16"		
98	R4010283	4		· SCREW, #10-32 X 1/2" - P.H.		
99	R4264497	8		· SCREW, 4M X .70		
100	R4105637	2		· BOLT, 1/4"-20 X 1/2" - S.S.		
101	R0814157	2		· BOLT, 1/4"-20 X 1"		
102	R4009612	4		· BOLT, 1/4"-20 X 1-1/4"		4/27/20
103	R0808476	4		· BOLT, 3/8"-16 X 1-1/4"		
104	R0989217	4		· SCREW, #8-32 X 5/8"		
105	R4019420	2		· TERMINAL, WIRE - #16-14, 1/4"		
106	R4019411	9		· WIRE TERMINAL, #16-14 AWG		
107	R4286127	1		· RAIL ASSEMBLY, DIN - CAB REAR		8/5/16
108	R4279003	1		· MOUNTING PANEL, 6 SWITCH		4/24/17
109	R4279004	4		· PLUG, PANEL		4/24/17
110	R4289009	1		· SWITCH, ROCKER - 15A, 24V		4/24/17
111	R4274633	1		· CAB ASSEMBLY, 50 SERIES LINCS II (PAGE 1.12-1.12A)		10/24/18
112	R4295368	1		· MOUNT PLATE, HMI		10/24/18
113	R4295369	1		· MOUNT SLIDE PLATE, HMI		10/24/18
114	R4292887	1		· CABLE, TOUCH SCREEN HDMI 2M		8/30/19
115	R4268395	1		· TRAINING SEAT ASSEMBLY AND MOUNT (PAGE 9.116-9.116A)		10/31/19
116	R4301752	3		· BOLT, 1/4"-20 X 1-1/4"		4/27/20
117	R4012935	3		· NUT, 1/4"-20		4/27/20
118	R4010923	3		· FLATWASHER, 1/4"		4/27/20
				NOTE:		
				· WHEN REPLACING TOUCH SCREEN R4265199 ORDER TOUCH SCREEN ASSEMBLY R4274714		1/6/17
		REF		DRAWING, CAB WIRING DIAGRAM, LINCS II (R427446427)		4/27/20

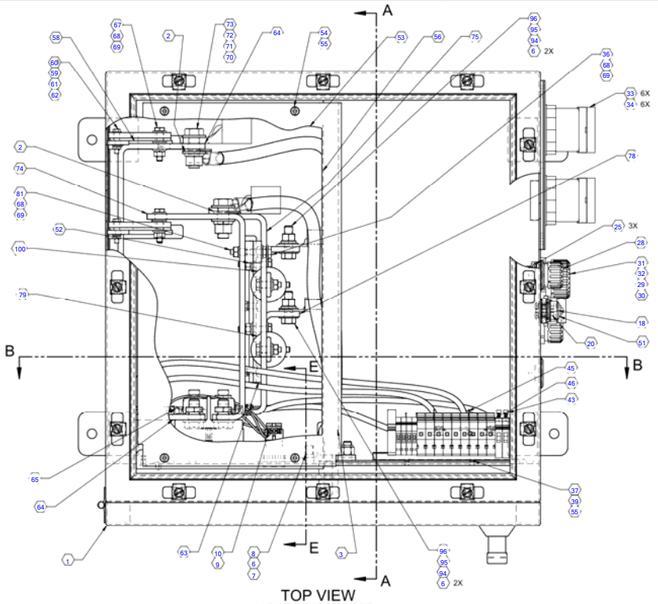
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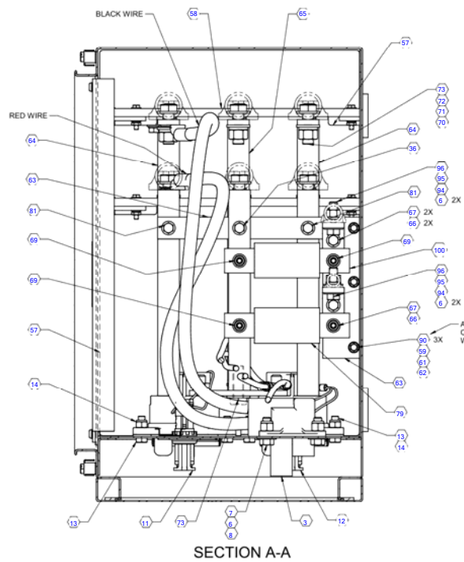
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

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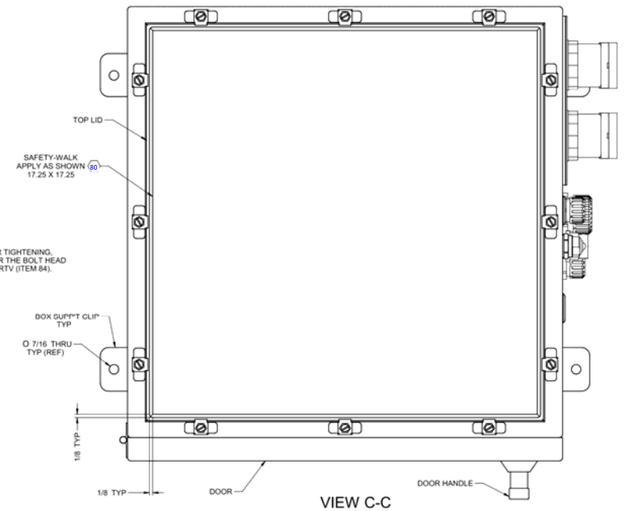
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ISOLATION & C0NTROL SWITCH BOX ASSEMBLY

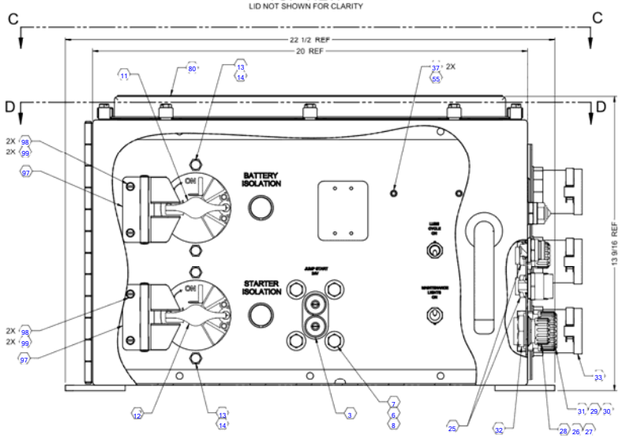


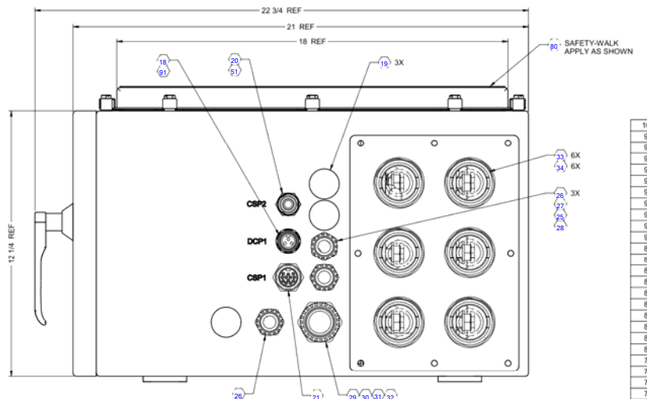


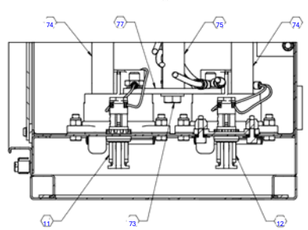
SECTION A-A



VIEW C-C
TOP VIEW WITH LID SHOWN







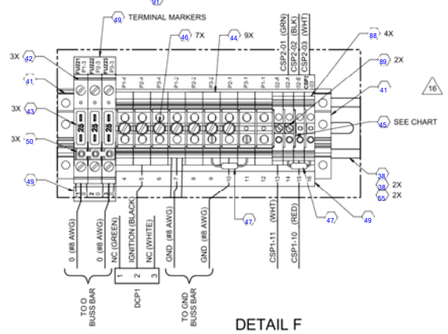
SECTION E-E

SEPARATION PLATE LOCATIONS	FIXED BRIDGE LOCATION
BETWEEN TERMINAL BLOCK NUMBERS	TERMINAL BLOCK NUMBERS
	1 THRU 3
6 - 7	4 THRU 6
10 - 11	7 THRU 10
12 - 13	13 THRU 14
14 - 15	

NOTES:
1. CUT THE DCP1 CONNECTOR WHITE & GREEN WIRES TO 3-INCH LENGTH. APPLY HEAT SHRINK TUBING (ITEM 48) TO INSULATE THE ENDS.
2. CUT THE CSP1 CONNECTOR ORANGE, BLUE AND ORANGE/BLACK TO 3 INCH LENGTH.

NOTE:
SEE TERMINAL BLOCK TORQUE SPECIFICATIONS CHART PRIOR TO INSTALLING WIRES IN THE TERMINAL BLOCKS.

TORQUE SPECIFICATIONS CHART					
ITEM NO.	LTR P/N	MIN TORQUE (lb-in)	MAX TORQUE (lb-in)	MIN TORQUE (Nm)	MAX TORQUE (Nm)
42	4264182	13.3	14.2	1.5	1.6
44	4228652	13.3	15.9	1.5	1.8



DETAIL F
1:1
DIN RAIL WIRING DIAGRAM

NOTES:

1. FIRST (PRIOR TO PART INSTALLATION); LOCATE ITEM 56 TO BOX BOTTOM AND ITEM 57 TO THE INSIDE WALL OF BOX AND ADHERE WITH RTV ITEM 84 (4030823).

2. FOR BUS BARS 64,65,74 AND 75, TIGHTEN THE NUTS ON THE ENDS AT THE BATTERY AND STARTER ISOLATION SWITCHES TO 18 - 22 Nm (13.28 - 16.23 LB-FT). THEN USE 1/4 WASHERS AS SHIMS AT THE OPPOSITE ENDS AS NECESSARY.

REVISIONS							
ZONE	REV	DESCRIPTION	EEN		DATE	CHG	CHK
E1	13	REVISED NOTE 2 (TO ADDED TORQUE)	NL13-1326	8-26-13	JFM	BS	BS
	14	NO CHANGE THIS SHEET	NL14-0094	4-25-14	JFM	BS	JS
	15	DLT'D ITEM 91 (SEAL RING) AT ITEM 20;					
C1	15	ITEM 20 WAS P/N 4265238; ITEM 91 WAS QTY 3	1306951	4-14-15	JFM	BS	JS
	16	CHG'D ITEM 66 TO QTY 40	1315227	9-15-15	JFM	JS	JS

ITEM	PART NO.	QTY	DESCRIPTION
100	4279013	1	FUSE 200A
99	4105657	4	LOCKNUT 10-32 UNF SS
98	4153670	4	MSCR PH #10-32 UNF X .5 SS
97	4274590	2	HINGE STRUCTURE
96	2147089	2	BOLT HX 3/8-16 UNC-2A x 1 1/4LG SS
95	2063953	2	NUT HX 3/8 SS
94	4129671	2	WASHER LOCK SPR 3/8 SS
93	4274370	1	LABELS FOR BRADY ID PAL LABELER
92	4019411	11	WIRE TERM RT 22-16 #6 INS
91	4046896	2	CONDUIT SEAL RING .500
90	4274421	3	BOLT HEX, #10-32 UNF X 3/4 LG SS
89	4228651	2	L-BRIDGE - PHOENIX LB100-6BU DIN
88	4227190	4	TERM BLOCK 1-2 TERM #10 AWG
87	4270207	13	FERRULE INSUL 12AWG .472LG INSERT GRAY
86	4270205	6	FERRULE INSUL 16AWG .315LG INSERT BLK
85	4270209	4	FERRULE INSUL 8AWG .472LG INSERT RED
84	4030823	1	ADHESIVE DOW 732 RTV CART
83	4111905	10.0 FT	CABLE POLYOLEFIN SINGLE #8 AWG
82	4111901	6 FT	CABLE POLYOLEFIN SINGLE #16 AWG
81	4265104	2	BOLT HX .250 1.500 NC SS
80	4268472	1.5 FT	SAFETY-WALK, SLIP-RES
79	4259237	1	FUSE 150A
78	4270128	2	BUSS BAR SMALL END
77	4270125	2	BUSS BAR CROSS OVER
76	4105641	2	BOLT HX 1/4-20 UNC X 1 LG
75	4270127	1	BUSS BAR MIDDLE SHORT
74	4270126	2	BUSS BAR SHORT
73	4212697	8	BOLT HEX, 1/2-13 UNC 1-1/2LG SS
72	4100190	8	NUT HX 1/2-13 UNC SS
71	4212699	8	WASHER LOCK SPR 1/2 SS
70	4235533	16	WASHER FLAT .500 SS
69	4105645	15	NUT HEX, 1/4-20 UNC-2B SS
68	4105726	15	WASHER, SPLIT LOCK 1/4 SS
67	4245041	10	BOLT HX 1/4-20 UNC x 1-3/8 LG SS
66	4105727	40	WASHER, FLAT .250 .63 .065 SS
65	4270124	1	BUSS BAR MIDDLE LONG
64	4270123	2	BUSS BAR LONG
63	4270130	1	STANDOFF INSULATOR ANGLE BRACKET
62	4105733	11	NUT, HEX, #10-32 UNF
61	4129670	11	WASHER, LCK, SPR, #10 SS
60	4129596	8	BOLT HEX, #10-32 UNF X 1 LG SS
59	4105720	22	WASHER SS FLAT #10
58	4270129	2	STANDOFF INSULATOR PANEL
57	4270120	1	INSULATE PANEL SIDE
56	4270121	1	INSULATE PANEL BTM
55	4105623	6	MSCR PH #10 NF .375 SS
54	4230763	4	WASHER, LK EXT #10 SS
53	4270122	1	INSULATE PANEL TOP

ITEM	PART NO.	QTY	DESCRIPTION
52	4270131	2	SPACER INSULATOR
51	4265200	1	CAP 7/8 MALE TURCK
50	4264185	3	BRIDGE FIXED PHOENIX 02 03 26 3
49	4268406	1	TERMINAL MARKERS COOLING PUMP
48	4170160	0.2	HEAT SHRK CLR .125 2:1
47	4072742	2	RESISTOR K 10.00 .25 MF 1
46	4251788	7	FIXED BRIDGE DIN FBI 10-10
45	4227295	4	PLATE SEPARATING PHOENIX TS-K
44	4228652	9	TERM BLK 1P 2 TERM #6 AWG
43	4265746	3	FUSE-25A 32V BLADE TYPE
42	4264182	3	TERM BLK FUSE PHOENIX 30 01 93 8
41	4228649	2	BRACKET END PHOENIX E/UK1 DIN
39	4010907	2	WASHER LOCK SPR .190 .334 .047
38	4238708	1	RAIL MOUNT 7.0 INCH LG DIN
37	4017134	2	NUTSERT 10-32 UNF
36	4105644	1	BOLT HX 1/4-20 UNC X 1-1/8 LG
35	4270142	1	WARNING LABEL ISOL SW BOX
34	4270141	6	NUT, HEX LOCK PG36
33	4270140	6	CONNECTOR, STRAIGHT PG36
32	4217893	1	NUT LOCK NYL LNP-M32
31	4217732	1	CAP NUT CN32
30	4217734	1	SEALING RING SRN29
29	4217730	1	ADAPTER BODY AB32-M32
28	4217707	3	CAP NUT CN16
27	4217710	3	SEALING RING SRN16
26	4217704	3	ADAPTER BODY AB20-M20
25	4217714	3	NUT LOCK NYL LNP-M20
24	4264983	1	RECPT 12 PIN MALE/4M 1/2-14NPT
23	4282738	1	RECEPTACLE 3 PIN FEMALE 1/2-14 NPSM
22	4278916	3	HOLE SEAL .50 CONDUIT SS
21	4265237	1	RECEPTACLE 3 PIN MALE 3M
20	4059189	1	SWITCH, TOGGLE DPDT MAINT 2 POS
19	4031378	2	SWITCH, TOGGLE 6PST MAINT 2 POS
18	4031377	1	SWITCH, TOGGLE 5PST MOMEN 2 POS
17	4105659	4	NUT LOCK NYL INS 5/16 SS
16	4105647	4	HEX BOLT 5/16-18UNC X 1 LG SS
15	4267268	1	SWITCH DISCONNECT 2POLE 500A YELLOW
14	4267269	1	SWITCH DISCONNECT 2POLE 500A RED
13	4240048	1	LIGHT ASSY IND W/YELLOW LED
12	4240049	1	LIGHT ASSY IND W/RED LED
11	4070091	4	NUT LOCK NYL INS .375 NC SS
10	4105720	4	BOLT HX .375 1.000 NC SSFT
9	2063952	4	WASHER FLAT .375 SS
8	4229233	8	WASHER FLAT .375 SS
7	4019423	4	WIRE TERM RT 16-14 1/2 INS
6	4019443	4	WIRE TERM RT #8 .500 RED
3	4163355	1	SOCKET, BATTERY CHARGING (CATERPILLAR)
2	4019666	2	TERM WIRE RT 1/0AN - 2/0 .500 NON
1	4270118	1	ISOLATION & CONTROL SWITCH BOX

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°; FRACTIONS ±1/16; XX DECIMAL ±.03; XXX DECIMAL ±.015
- MACHINED CORNERS .156 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON	CONTRACT NO	
L11502203		
DWN	J.MARTIN	3-03-10
CHK	B.SHAFER	3-03-10
ENGR	B.SHAFER	3-03-10
PROD ENGR	B.SHAFER	3-03-10
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ISOL & CTRL SWITCH BOX ASSY

SIZE E | DO NOT SCALE | DWG NO 4270117 | REV 16

SCALE 1/2 | WT 103.7 lbm | SHEET 1 OF 2

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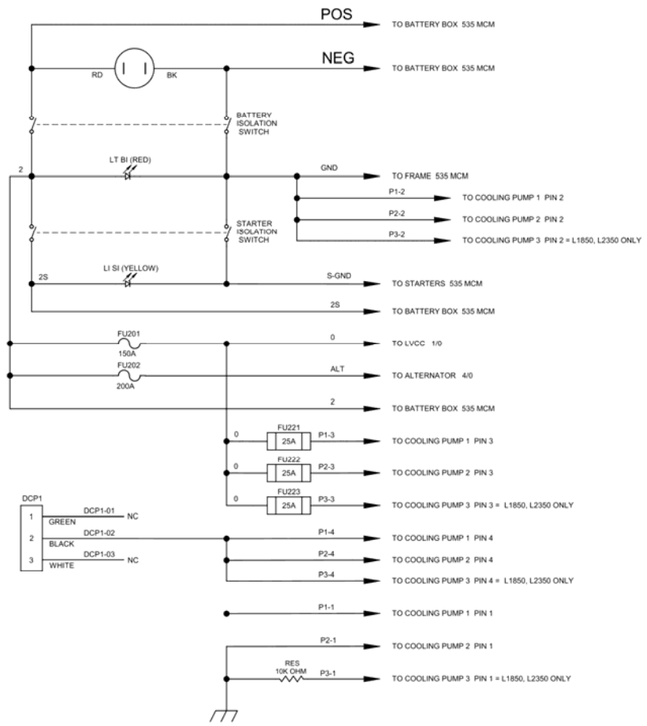
ISOLATION & C0NTROL SWITCH BOX ASSEMBLY

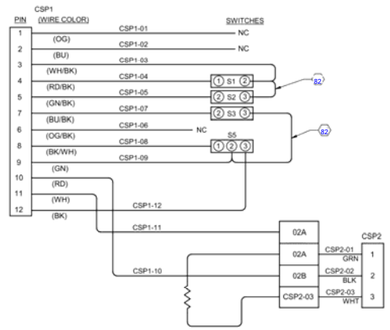
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ISOLATION & C0NTROL SWITCH BOX ASSEMBLY

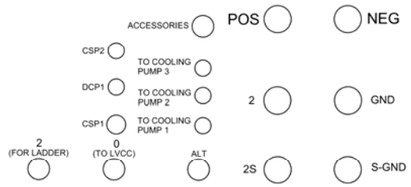
REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHD	CHK
	09	POS & NEG AT SCH. & DIAGRAM WAS + & -	NL12-1623	8-30-12	JFM	BS	BS
	10	NO CHANGE THIS SHEET	NL12-1640	10-3-12	JFM	BS	BS
C7	11	CHG'D SWH BOX SCH LABELS: ADDED ITEM 82;					
F,G2	11	ADDED ITEM 82 BUBBLE LOCATION AT SECT B-B	NL13-1297	5-29-13	JFM	BS	BS
C8	12	FU202 FUSE WAS 150A IN SCHEMATIC	NL13-1323	7-23-13	JFM	BS	BS
	13	NO CHANGE THIS SHEET	NL13-1326	8-26-13	JFM	BS	BS
F6	14	PIN P3-2 WAS P2-2 AT (TO COOLING PUMP)	NL14-0094	4-25-14	JFM	BS	JS
	15	NO CHANGE THIS SHEET	1306951	4-14-15	JFM	BS	JS
	16	NO CHANGE THIS SHEET	1315227	9-15-15	JFM	JS	JS

NOTE:
SEE TERMINAL BLOCK
TORQUE SPECIFICATIONS CHART
PRIOR TO INSTALLING WIRES
IN THE TERMINAL BLOCKS.

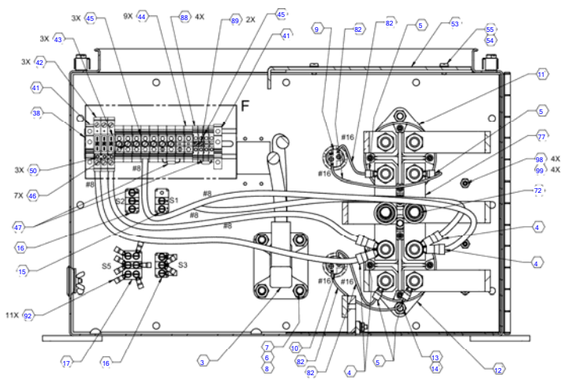




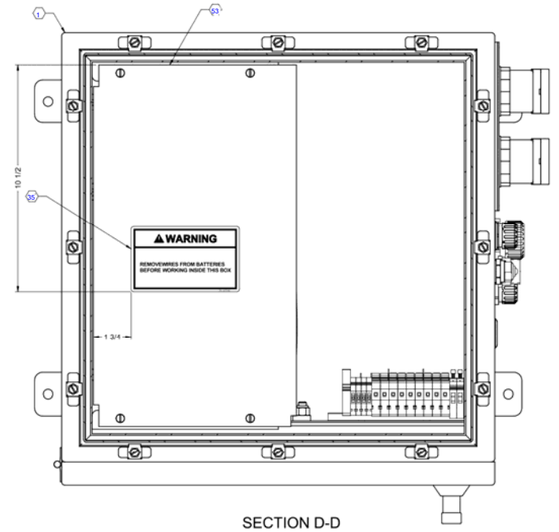
SWITCH BOX SCHEMATIC



CONDUIT DISTRIBUTION DIAGRAM



SECTION B-B
ROTATED 180°



SECTION D-D

ISOL & CTRL SWITCH BOX ASSY	SIZE E	DO NOT SCALE	DWG NO 4270117	REV 16
DRAWN J.MARTIN	SCALE 1/2	WT KT 103.7 lbm	SHEET 2 OF 2	
DATE 3-03-10				

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ISOLATION & C0NTROL SWITCH BOX ASSEMBLY

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ISOLATION & C0NTROL SWITCH BOX ASSEMBLY

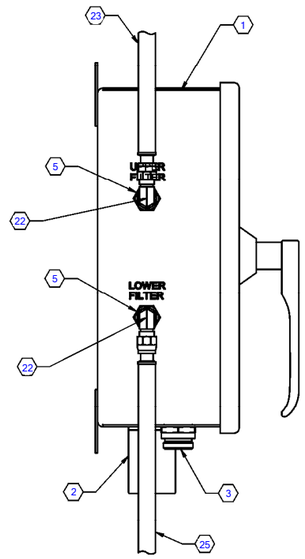
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4270117			ISOLATION & C0NTROL SWITCH BOX ASSEMBLY		8/6/19
1	R4270118	1		· SWITCH BOX		
	R4286053	1		· · DOOR, ETCHED - FRONT		4/18/16
	R4286067	1		· · HANDLE ASSEMBLY		4/18/16
	R4286069	1		· · COVER, TOP - WITH SLIP RESISTANT COVER		4/18/16
	R4268472	1		· · · SAFETY-WALK, SLIP RESISTANT - BLACK, 24" X 30' ROLL		4/18/16
2	R4019666	2		· TERMINAL, WIRE - 2/0 1/2" NON		
3	R4163355	1		· SOCKET, JUMP START - WITH 4' CABLE		
4	R4019443	4		· TERMINAL, WIRE - #8 1/2" RED		
5	R4019423	4		· TERMINAL, WIRE - 1/2" HOLE		
6	R4229233	8		· FLATWASHER, 3/8" - S.S.		9/15/15
7	R2063952	4		· BOLT, 3/8"-16 X 1" - S.S.		
8	R4070091	4		· LOCKNUT, 3/8"-16 - S.S., NYLON		
9	R4240049	1		· LIGHT ASSEMBLY, INDICATOR - RED LED		
10	R4240048	1		· LIGHT ASSEMBLY, INDICATOR - AMBER LED		
11	R4267269	1		· SWITCH, DISCONNECT - 2 POLE 500A, RED		
12	R4267268	1		· SWITCH, DISCONNECT - 2 POLE 500A, YELLOW		
13	R4105647	4		· BOLT, 5/16"-18 X 1" - S.S.		
14	R4105659	4		· LOCKNUT, 5/16"-18 - S.S., NYLON		
15	R4031377	1		· SWITCH, TOGGLE - SPST, 2 POS. MOMENTARY		
16	R4031378	2		· SWITCH, TOGGLE - SPST, 2 POS. MAINTAINED		
17	R4059189	1		· SWITCH, TOGGLE - DPDT, 2 POS. MAINTAINED		
18	R4265237	1		· RECEPTACLE, 3 PIN - MALE		
19	R4278916	3		· SEAL, HOLE - 1/2"		
20	R4282738	1		· RECEPTACLE, 3 PIN - FEMALE		
21	R4264983	1		· RECEPTACLE, 12 PIN - MALE		
25	R4217714	3		· LOCKNUT, NYLON - LNP-M20		
26	R4217704	3		· ADAPTER BODY		
27	R4217710	3		· RING, SEALING - SRN16		
28	R4217707	3		· NUT, CAP - CN16		
29	R4217730	1		· ADAPTER BODY AB32-M32		
30	R4217734	1		· SEALING RING, SRN29		
31	R4217732	1		· NUT, CAP - CN32		
32	R4217893	1		· LOCKNUT, NYLON - LNP-M32		
33	R4270140	6		· CONNECTOR, STRAIGHT PG36		
34	R4270141	6		· LOCKNUT, CONDUIT		
35	R4270142	1		· LABEL, WARNING - ISOLATION SWITCH BOX		
36	R4105644	1		· BOLT, 1/4"-20 X 1-1/8"		
37	R4017134	2		· NUTSERT, #10-32		
38	R4238708	1		· RAIL MOUNTING, 7"		
39	R4010907	2		· LOCKWASHER, #10		
40	N.P.N.			· NOT USED		9/15/15
41	R4228649	2		· BRACKET, END - DIN		
42	R4264182	3		· TERMINAL BLOCK, FUSE		
43	R4265746	3		· FUSE, 25A 32V - BLADE TYPE CLEAR		
44	R4228652	9		· TERMINAL BLOCK, 2 TERM.		
45	R4227295	4		· PLATE, SEPARATING - TS-K		
46	R4251788	7		· BRIDGE, FIXED		
47	R4072742	2		· RESISTOR, 10.00 - .25 MF		
48	R4170160	6	IN	· HEAT SHRINK, CLEAR - .125		9/15/15
49	R4268406	1		· TERMINAL MARKERS COOLING PUMP		
50	R4264185	3		· BRIDGE, FIXED		
51	R4265200	1		· CAP, TURCK - 7/8" MALE		
52	R4270131	2		· SPACER INSULATOR		
53	R4270122	1		· INSULATE PANEL TOP		
54	R4230763	4		· LOCKWASHER, #4 - EXTERNAL TOOTH		
55	R4105623	6		· SCREW, #10-32 X 3/8"		9/15/15

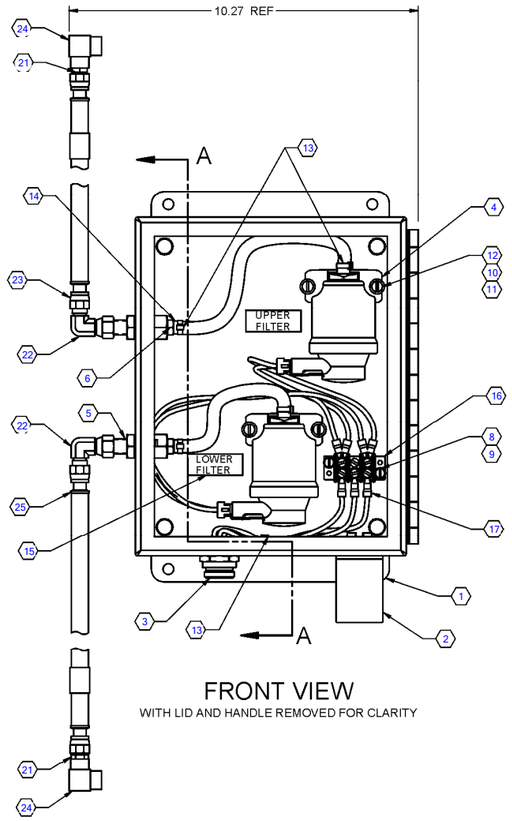
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
56	R4270121	1		· INSULATE PANEL BTM		
57	R4270120	1		· INSULATE PANEL SIDE		
58	R4270129	2		· STANDOFF INSULATOR PANEL		
59	R4105720	22		· FLATWASHER, #10 - S.S.		
60	R4129596	8		· BOLT, #10-32 X 1" - S.S.		9/15/15
61	R4129670	11		· LOCKWASHER, #10		
62	R4105733	11		· NUT, #10-32 - S.S.		
63	R4270130	1		· STANDOFF INSULATOR ANGLE BRACKET		
64	R4270123	2		· BUS BAR LONG		8/6/19
65	R4270124	1		· BUS BAR MIDDLE LONG		8/6/19
66	R4105722	40		· FLATWASHER, 1/4" - S.S.		
67	R4245041	10		· BOLT, 1/4"-20 X 1-3/8" - S.S.		
68	R4105726	15		· LOCKWASHER, 1/4" - S.S.		
69	R4105645	15		· NUT, 1/4"-20 - S.S.		
70	R4235533	16		· FLATWASHER, 1/2" - S.S.		
71	R4212699	8		· LOCKWASHER, 1/2" - S.S.		
72	R4100190	8		· NUT, 1/2"-13 - S.S.		
73	R4212697	8		· BOLT, 12"-13 X 1-1/2" - S.S.		
74	R4270126	2		· BUS BAR SHORT		8/6/19
75	R4270127	1		· BUS BAR MIDDLE SHORT		8/6/19
76	R4105641	2		· BOLT, 1/4"-20 X 1" - S.S.		
77	R4270125	2		· BUS BAR CROSS OVER		8/6/19
78	R4270128	2		· BUS BAR SMALL END		8/6/19
79	R4259237	1		· FUSE, 150A 500V		
80	N.P.N.			· REFER TO ITEM 1		4/18/16
81	R4265104	2		· BOLT, 1/4"-20 X 1-1/2" - S.S.		
82	R4111901	6	FT	· CABLE, #16 AWG 2000V		9/15/15
83	R4111905	10	FT	· CABLE, #8 AWG 2000V		9/15/15
84	R4030823	1		· SEALANT/ADHESIVE, SILICONE - 10.7 OZ., CLEAR		
85	R4270209	4		· FERRULE, 8 AWG - RED		
86	R4270205	6		· FERRULE, INSULATED - 16 AWG, .315 LONG - BLACK		
87	R4270207	13		· FERRULE, 12 AWG - GRAY		9/15/15
88	R4227190	4		· TERMINAL BLOCK, 1-2 TERMINAL - #10 AWG		
89	R4228651	2		· L-BRIDGE, DIN		
90	R4274421	3		· BOLT, #10-32 X 3/4" - S.S.		9/15/15
91	R4046896	2		· RING, SEALING - 1/2" - CONDUIT		9/15/15
92	R4019411	11		· WIRE TERMINAL, #16-14 AWG		9/15/15
93	R4274370	1		· LABELS		9/15/15
94	R4129671	2		· LOCKWASHER, 3/8" - S.S.		9/15/15
95	R2063953	2		· NUT, 3/8"-16 - S.S.		9/15/15
96	R2147089	2		· BOLT, 3/8"-16 X 1-1/4" - S.S.		9/15/15
97	R4274590	2		· HINGE STRUCTURE		9/15/15
98	R4153670	4		· SCREW, #10-32 X 1/2" - S.S.		9/15/15
99	R4105657	4		· LOCKNUT, #10-32		9/15/15
100	R4279013	1		· FUSE, 200A		9/15/15
		REF		DRAWING, ISOLATION & C0NTROL SWITCH BOX ASSEMBLY (R427011716)		9/15/15

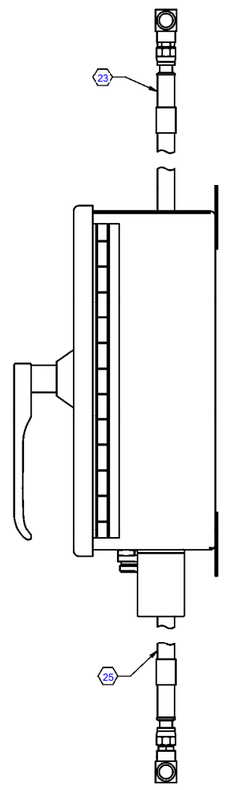
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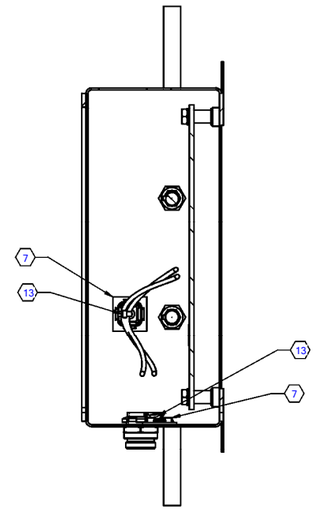
ENGINE AIR RESTRICTION GAUGE BOX ASSEMBLY



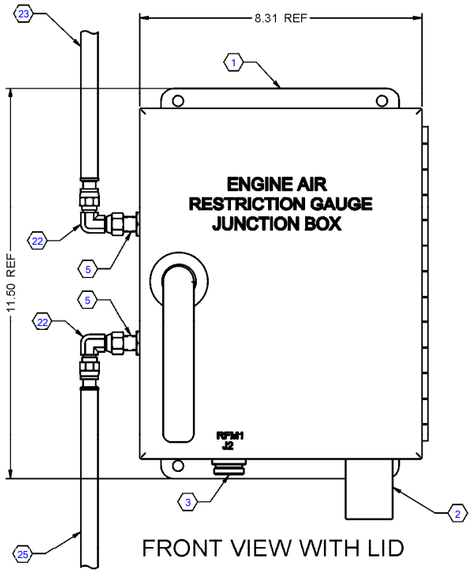


FRONT VIEW
WITH LID AND HANDLE REMOVED FOR CLARITY

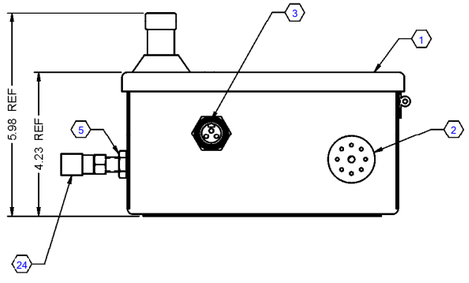


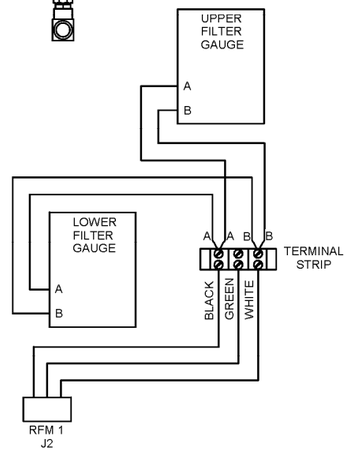


SECTION A-A



FRONT VIEW WITH LID





WIRING DIAGRAM

ITEM	PART NO.	QTY	DESCRIPTION
25	4155484	1	HOSE 250 4 74.0 0J 0J
24	4032320	2	FTG HYD 90 2 FP 2 FP
23	4152940	1	HOSE 250 4 115.0 0J 0J
22	4116444	2	FTG HYD 90 4 MJ 4 FJ
21	0978632	2	FTG HYD 0 4MJ 1/8MP
20	4230693	4	CABLE SEAL PACKARD 12048086
19	4229306	4	TERMINAL PACKARD 12048074
18	4111900	4 FT	CABLE #18 AWG POLYOLEFIN SGL
17	4019416	7	WIRE TERM RT 16-14 #6 INS
16	4076032	1	TERM STRIP 2SCREW 15A 3T
15	4267287	1	CODE SHEET ENG AIR RESTRICT GA BOX
14	4103992	1 FT	AIR WASHER HOSE #3
13	4018725	6	CABLE TIE 4" BENT TIP/BLK
12	4105617	4	MSCR PH #8-32 UNC X .500 SS
11	4157833	4	WASHER LOCK #8 SS SPRING
10	4157834	4	WASHER FLAT .188 .44 .05 SS
9	4010914	2	WASHER, EXT TOOTH #6
8	4105611	2	SCREW, #6-32 UNC-2A X 1/2 PH, SS
7	4078040	2	MOUNT, CABLE TIE, ADHESIVE
6	4131750	2	TUBE ADAPTER, 1/8-27, 1/8 TUBE, BRASS
5	4267275	2	BULKHEAD 37 DEG FLR INTL 1/8 NPT, 7/16 JI
4	4235601	2	AIR GAUGE
3	4265237	1	RECEPTACLE 3 PIN MALE 3M
2	4268634	1	VENT DRAIN
1	4267271	1	JUNCTION BOX WITH PANEL

05

NOTE:
-- REMOVE WIRES AND TERMINALS FROM 4235601 CONNECTOR.
-- INSTALL 4230693 CABLE SEAL ONTO 4111900 #18 AWG WIRE.
-- STRIP INSULATOR FROM WIRE.
-- CRIMP 4229306 TERMINAL AND 4230693 CABLE SEAL ONTO WIRE.
-- INSTALL NEW WIRE AND TERMINAL INTO 4235601 CONNECTOR.

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- TOLERANCES ON: ANGLES ±1° / FRAC TIONS ±1/16 / .XX DECIMAL ±.03 / .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO.
-

	DATE
DWN	
CHK	
ENGR	
PROD ENGR	
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

ASSEMBLY, ENGINE AIR RESTRICTION GAUGE BOX

SIZE D | DO NOT SCALE | DWG NO. 4267273 | REV 05

SCALE 1/2 | EST WT 12.4 lbm | SHEET 1 OF 1

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ENGINE AIR RESTRICTION GAUGE BOX ASSEMBLY

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ENGINE AIR RESTRICTION GAUGE BOX ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4267273		ENGINE AIR RESTRICTION GAUGE BOX ASSEMBLY		4/20/11
1	R4267271	1	· JUNCTION BOX ASSEMBLY		
2	R4268634	1	· BREATHER/DRAIN, S.S.		3/31/11
3	R4265237	1	· RECEPTACLE, 3 PIN - MALE		
4	R4235601	2	· GAUGE, AIR RESTRICTION		
5	R4267275	2	· ADAPTER, 1/8" FP X 7/16" MJ - BULKHEAD		
6	R4131750	2	· ADAPTER, 1/8" MP X #2 HOSE - BRASS		
7	R4078040	2	· CABLE TIE MOUNT, ADHESIVE		
8	R4105611	2	· SCREW, #6-32 X 1/2" - P.H., S.S.		
9	R4010914	2	· LOCKWASHER, #6 - EXTERNAL TOOTH		
10	R4157834	4	· FLATWASHER, #8 - S.S.		
11	R4157833	4	· LOCKWASHER, #8 - S.S.		
12	R4105617	4	· SCREW, #8-32 X 1/2" - P.H., S.S.		
13	R4018725	6	· CABLE TIE, 4" - BENT TIP/BLACK		
14	R4103992	1	· HOSE, AIR - #4, 100 PSI - 50" ROLL		
15	R4267287	1	· CODE SHEET		
16	R4076032	1	· TERMINAL STRIP, 3 TERM.		
17	R4019416	7	· TERMINAL, WIRE - #16-14, #6		
18	R4111900	4	· CABLE, #18 AWG 600V		3/31/11
19	R4229306	4	· TERMINAL		3/31/11
20	R4230693	4	· SEAL, CABLE		3/31/11
21	R0978632	2	· ADAPTER, 1/8" MP X #4 MJ		3/31/11
22	R4116444	2	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		3/31/11
23	R4152940	1	· HOSE ASSEMBLY, #4 X 115"		3/31/11
24	R4032320	2	· ELBOW, 1/8" FP X 90 deg. X 1/8" FP		3/31/11
25	R4155484	1	· HOSE ASSEMBLY, #4 X 74"		3/31/11
	R4267273	REF	ENGINE AIR RESTRICTION GAUGE BOX ASSEMBLY		4/20/11

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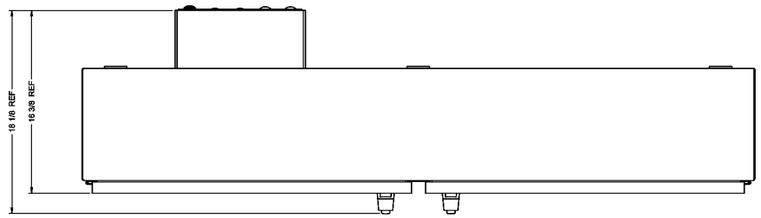
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

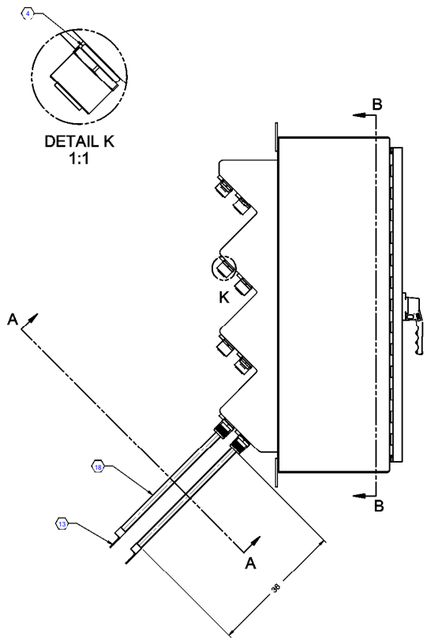
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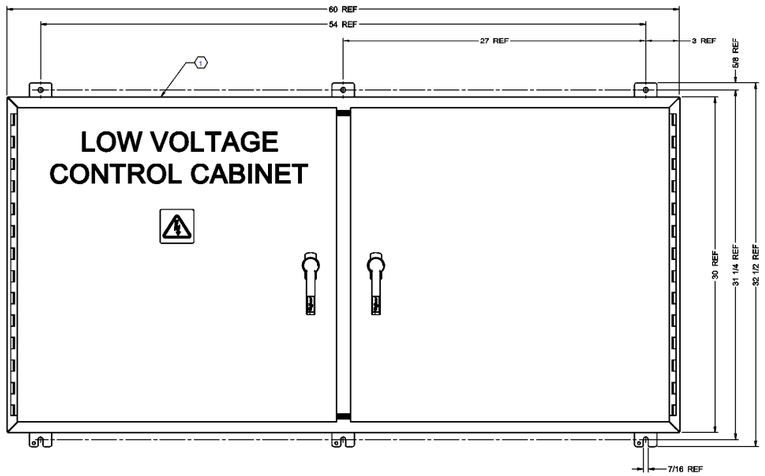
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LOW VOLTAGE CONTROL CABINET ASSEMBLY

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	
	00	RELEASE	NL11-1829	10-31-11	JFM	BS	BS
	01	ITEM 2 P/N WAS 4260945; ITEM 3 P/N WAS					
	01	4265198; ITEM 25 QTY WAS 263 AND ITEM 27 QTY WAS 26	NL11-1843	12-07-11	LW	BAS	BS
	02	ITEMS 21 & 31 P/N'S WERE 0986146 & 4232459;					
	02	ITEM 25 QTY WAS 280; ITEM 28 QTY WAS 34 &					
	02	ADDED ITEM 33	NL12-2466	12-06-12	LW	BAS	BS
C2	03	DELETED ITEM 33 (RD CABLE CORE ASSY)	NL13-1273	3-21-13	JFM	BAS	BS







ITEM	PART NO.	QTY	DESCRIPTION
32	4270208	18	FERRULE INS 10AWG .472LG YELLOW
31	4232049	36 FT	CABLE #10 AWG EXANE DLO 600 VAC
30	4274370	2	LABELS FOR BRADY ID PAL LABELER
29	4270070	1	LOCTITE 242 REMOVABLE STRENGTH
28	4079983	30	CABLE TIE .0825 3.00 PLT35-MO
27	4270207	8	FERRULE INS 12AWG .472LG GRAY
26	4270206	36	FERRULE INS 14AWG .315LG BLUE
25	4270205	296	FERRULE INS 16AWG .315LG BLK
24	4270202	12	FERRULE INS 22AWG .315LG PURPLE
23	0985113	2	NUT LOCK NYL INS .375 NC
22	0998144	1	CLAMP CABLE INSL 1.25 .406
21	0998145	1	CLAMP CABLE INSL 1.50 .406
20	0810970	2	BOLT HX .375 .750 NC G8 FT
19	4255434	1	CAP FOR M12 CONN BREAKOUT BOX
18	4111910	12 FT	CABLE 1/0 AWG 1C XLP SHP 600V
17	4111903	30 FT	CABLE #12 AWG 1C XLP SHP 600V
16	4079832	120 FT	CABLE #14 AWG 1C EXANE DLO 600 VAC
15	4120401	100 FT	CABLE #16 AWG EXANE DLO 600 VAC
14	4265214	1	CODE SHEET ASSY LVCC LINCS II
13	4066506	2	WIRE TERMINAL RT 1/O 3/8
11	4230605	30	BACKNUT, BRASS 1/2 NPT
10	4004688	2	CABLE CONN .50 NPT (.500 .625) WT
8	4264193	1	RCPT E-NET FEMALE - RJ45/2M
7	4264189	4	RCPT CAN FEMALE/2M
6	4265238	3	RCPT 3 PIN FEM/3M 1/2-14NPT
5	4265239	25	RCPT 12 PIN FEM/3M 1/2-14NPT
4	4046896	30	CONDUIT SEAL RING .500
3	4274400	1	ASSY PANEL LINCS 2 RELAY
2	4274387	1	ASSY PANEL LOW VOLTAGE LINCS II
1	4263793	1	STR LOW VOLTAGE CTRL CABINET

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- TOLERANCES ON: ANGLES ±1°; FRACTIONS ±1/16; .XX DECIMAL ±.03; .XXX DECIMAL ±.015
- MACHINED CORNERS .164 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO	L11502001	
DWN	J.MARTIN	10-31-11
CHK	B.SHAFER	10-31-11
ENGR	B.SHAFER	10-31-11
PROD ENGR	B.SHAFER	10-31-11
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY LOW VOLTAGE CTRL CABINET

SIZE E | DO NOT SCALE | DWG NO. 4274479 | REV 03

SCALE 1:4 | WT 265.5 LBS | SHEET 1 OF 6

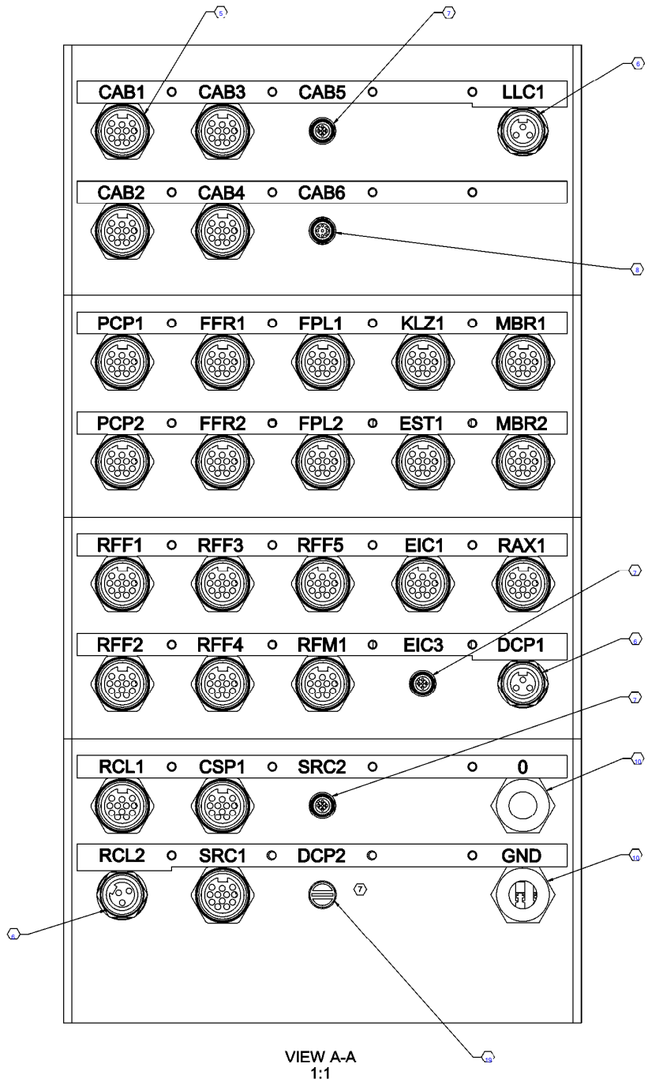
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LOW VOLTAGE CONTROL CABINET ASSEMBLY

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LOW VOLTAGE CONTROL CABINET ASSEMBLY

REVISIONS							
ZONE	REV	DESCRIPTION	ECR	DATE	DWN	CHK	
	00	RELEASE	NL11-1829	10-31-11	JFM	BS	BS
	01	NO CHANGES THIS SHEET, SEE SHEET 1	NL11-1843	12-07-11	LW	BAS	BS
	02	NO CHANGES THIS SHT, SEE SHT'S 1,3,4,5 & 8	NL12-2466	12-06-12	LW	BAS	BS
	03	NO CHANGE THIS SHEET	NL13-1273	3-21-13	JFM	BAS	BS



VIEW A-A
1:1

CONNECTOR ABBREVIATIONS

CAB - CAB
LLC - LADDER LIGHT CONTROL
PCP - PILOT CONTROL PANEL
FFR - FRONT FRAME
FPL - FRONT POLE LIGHT
MBR - MIRROR BAR
KLZ - KLENZ
EST - EMERGENCY STOP
RFF - REAR FRAME FORWARD
RFM - REAR FRAME MIDDLE
EIC- ENGINE INTERFACE CABNET
RAX - REAR AXLE
DCP - DRIVE COOLING PUMP
RCL - REAR COWL
CSP - CONTROL SWITCH PANEL
SRC - SR CABNET

ASSY LOW VOLTAGE CTRL CABINET		SIZE E	DO NOT SCALE	DRG NO. 4274479	REV 03
DRAWN J.MARTIN					
RELEASED 10-31-11	SCALE	WT WT: 265.2 lbm	SHEET 2 OF 6		

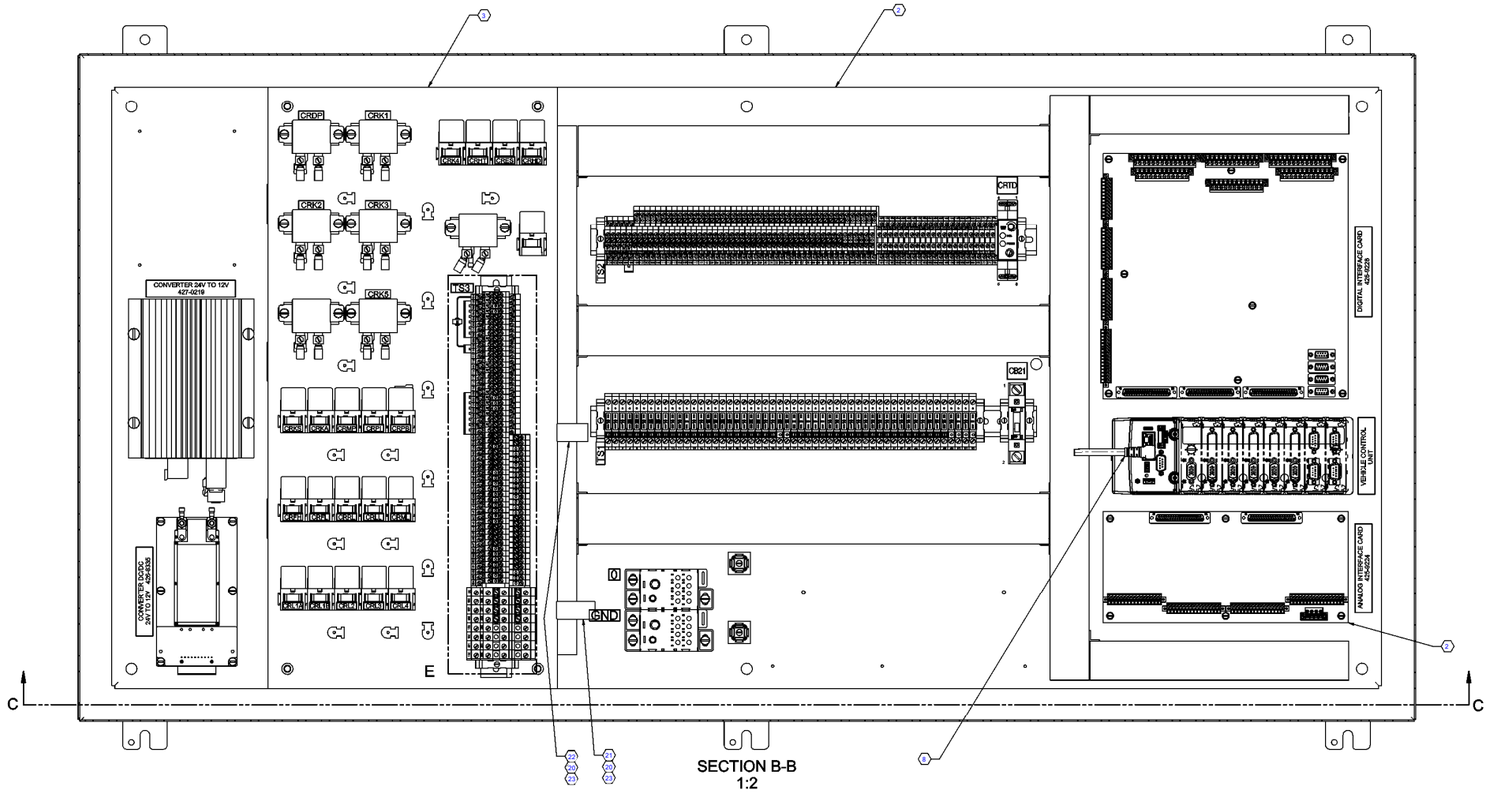
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LOW VOLTAGE CONTROL CABINET ASSEMBLY

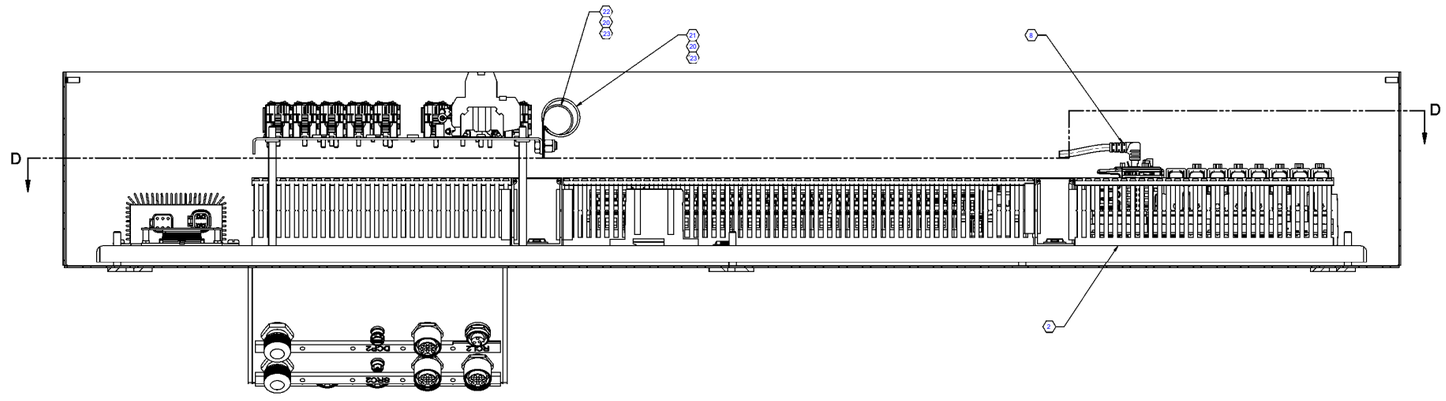
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LOW VOLTAGE CONTROL CABINET ASSEMBLY

REVISIONS							
ZONE	REV	DESCRIPTION	ECO	DATE	DWN	CHK
	00	RELEASE	NL11-1829	10-31-11	JFM	BS	BS
	01	UPD DWG VIEWS PER PIECE PARTS CHANGES	NL11-1843	12-07-11	LW	BAS	BS
	02	UPD GRAPHICS PER RELAY & LV PANEL CHANGE	NL12-2456	12-06-12	LW	BAS	BS
	03	NO CHANGE THIS SHEET	NL13-1273	3-21-13	JFM	BAS	BS



SECTION B-B
1:2



SECTION C-C
1:2

ASSY LOW VOLTAGE CTRL CABINET	SIZE E	DO NOT SCALE	DWG NO. 4274479	REV 03
DRAWN J.MARTIN				
ISSUED 10-31-11	SCALE	TOT WT 265.2 lbm	SHEET 3 OF 6	

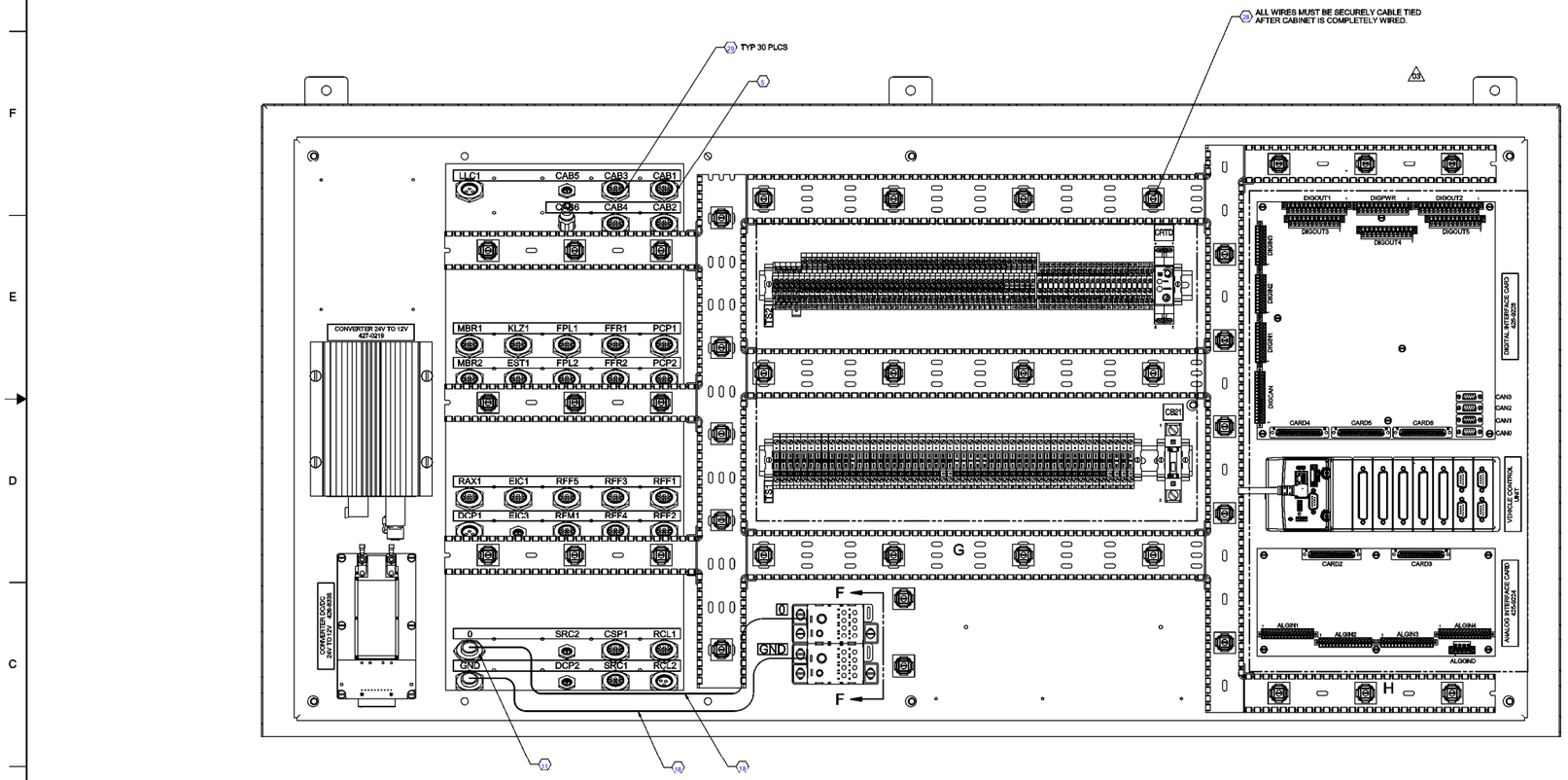
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LOW VOLTAGE CONTROL CABINET ASSEMBLY

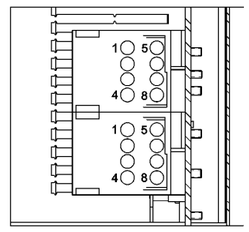
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LOW VOLTAGE CONTROL CABINET ASSEMBLY

REVISIONS							
ZONE	REV	DESCRIPTION	ECR	DATE	CHD	CHK	
	00	RELEASE	NL11-1829	10-31-11	JFM	BS	BS
	01	UPD DWG VIEWS PER PIECE PARTS CHANGES	NL11-1843	12-07-11	LW	BAS	BS
	02	ADDED SECTION "F-F" & UPDATED GRAPHICS	NL12-2466	12-06-12	LW	BAS	BS
	03	DELETED ITEM 33 & CABLE AT SECTION D-D	NL13-1273	3-21-13	JFM	BAS	BS



SECTION D-D
1:2
WIRING DUCT COVERS
ARE NOT SHOWN FOR CLARITY



SECTION F-F
1:1

ASSY LOW VOLTAGE CTRL CABINET					
DRAWN J.MARTIN	SIZE E	DO NOT SCALE	DWG NO. 4274479	REV 03	
ISSUED 10-31-11	SCALE	WT 265.2 lbm	SHEET 4 OF 6		

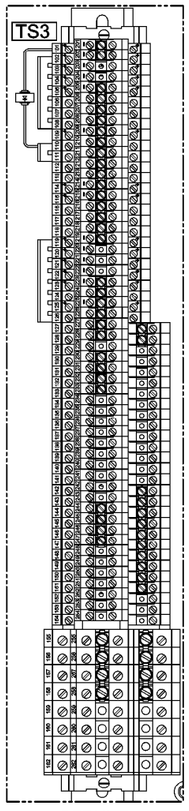
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LOW VOLTAGE CONTROL CABINET ASSEMBLY

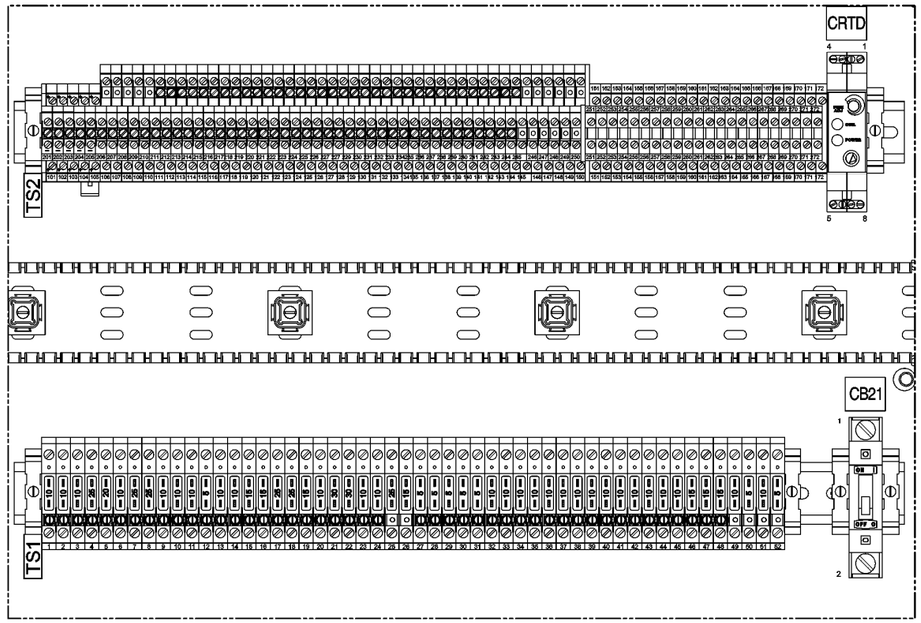
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LOW VOLTAGE CONTROL CABINET ASSEMBLY

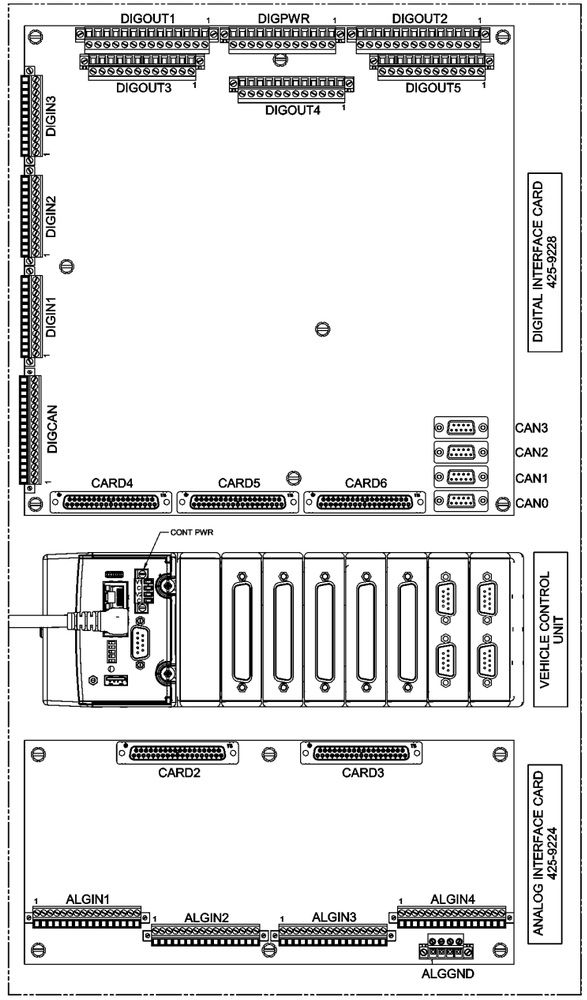
REVISIONS							
ZONE	REV	DESCRIPTION	ECR	DATE	CHD	CHK
	00	RELEASE	NL11-1829	10-31-11	JFM	BS	BS
	01	UPD DWG VIEWS PER PIECE PARTS CHANGES	NL11-1843	12-07-11	LW	BAS	BS
	02	UPD GRAPHICS PER RELAY & LV PANEL CHANGE	NL12-2466	12-06-12	LW	BAS	BS
	03	NO CHANGE THIS SHEET	NL13-1273	3-21-13	JFM	BAS	BS



DETAIL E
1:1



DETAIL G
1:1



DETAIL H
1:1

ASSY LOW VOLTAGE CTRL CABINET					
DRAWN	J.MARTIN		SIZE E	DO NOT SCALE	DRWG NO 4274479	REV 03
ISSUED	10-31-11		SCALE	WT WT 266.2 lbm	SHEET 5 OF 6

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LOW VOLTAGE CONTROL CABINET ASSEMBLY

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LOW VOLTAGE CONTROL CABINET ASSEMBLY

WIRE CHART				
GAUGE	COLOR	WIRE CODE	SOURCE	TARGET
16 AWG	ORG	CAB1-01	CAB1:1	DC_DC:12+
16 AWG	BLU	CAB1-02	CAB1:2	TS2:158:a
16 AWG	WHT/BLK	CAB1-03	CAB1:3	TS2:113:b
16 AWG	RED/BLK	CAB1-04	CAB1:4	TS2:114:b
16 AWG	GRN/BLK	CAB1-05	CAB1:5	TS1:28:b
16 AWG	ORG/BLK	CAB1-06	CAB1:6	TS2:163:a
16 AWG	BLU/BLK	CAB1-07	CAB1:7	NC
16 AWG	BLK/WHT	CAB1-08	CAB1:8	NC
16 AWG	GRN	CAB1-09	CAB1:9	DIGPWR:2
16 AWG	RED	CAB1-10	CAB1:10	ALGIN1:2
16 AWG	WHT	CAB1-11	CAB1:11	ALGIN1:1
16 AWG	BLK	CAB1-12	CAB1:12	DIGPWR:1
16 AWG	ORG	CAB2-01	CAB2:1	TS2:209:b
16 AWG	BLU	CAB2-02	CAB2:2	TS3:216:b
16 AWG	WHT/BLK	CAB2-03	CAB2:3	DIGOUT1:2
16 AWG	RED/BLK	CAB2-04	CAB2:4	TS2:102:a
16 AWG	GRN/BLK	CAB2-05	CAB2:5	DIGIN1:6
16 AWG	ORG/BLK	CAB2-06	CAB2:6	TS2:151:b
16 AWG	BLU/BLK	CAB2-07	CAB2:7	DIGOUT1:4
16 AWG	BLK/WHT	CAB2-08	CAB2:8	DIGOUT1:3
16 AWG	GRN	CAB2-09	CAB2:9	DIGOUT2:11
16 AWG	RED	CAB2-10	CAB2:10	NC
16 AWG	WHT	CAB2-11	CAB2:11	NC
16 AWG	BLK	CAB2-12	CAB2:12	TS2:144:b
16 AWG	ORG	CAB3-01	CAB3:1	TS3:131:b
16 AWG	BLU	CAB3-02	CAB3:2	TS3:234:b
16 AWG	WHT/BLK	CAB3-03	CAB3:3	TS2:243:b
16 AWG	RED/BLK	CAB3-04	CAB3:4	TS2:235:b
16 AWG	GRN/BLK	CAB3-05	CAB3:5	TS2:115:b
16 AWG	ORG/BLK	CAB3-06	CAB3:6	TS2:244:b
16 AWG	BLU/BLK	CAB3-07	CAB3:7	TS2:236:b
16 AWG	BLK/WHT	CAB3-08	CAB3:8	TS2:116:b
16 AWG	GRN	CAB3-09	CAB3:9	TS2:210:b
16 AWG	RED	CAB3-10	CAB3:10	TS3:130:b
16 AWG	WHT	CAB3-11	CAB3:11	TS3:133:b
16 AWG	BLK	CAB3-12	CAB3:12	TS3:134:b
16 AWG	ORG	CAB4-01	CAB4:1	TS1:46:b
16 AWG	BLU	CAB4-02	CAB4:2	TS2:161:b
16 AWG	WHT/BLK	CAB4-03	CAB4:3	TS1:47:b
16 AWG	RED/BLK	CAB4-04	CAB4:4	TS2:162:b
16 AWG	GRN/BLK	CAB4-05	CAB4:5	TS1:48:b
16 AWG	ORG/BLK	CAB4-06	CAB4:6	TS2:163:b
16 AWG	BLU/BLK	CAB4-07	CAB4:7	NC
16 AWG	BLK/WHT	CAB4-08	CAB4:8	NC
16 AWG	GRN	CAB4-09	CAB4:9	NC
16 AWG	RED	CAB4-10	CAB4:10	NC
16 AWG	WHT	CAB4-11	CAB4:11	NC
16 AWG	BLK	CAB4-12	CAB4:12	NC
SEE NOTE	22 AWG	BARE	CAB5-01	CAB5:1	DIGCAN:3
	22 AWG	RED	CAB5-02	CAB5:2	DIGCAN:4
	22 AWG	BLK	CAB5-03	CAB5:3	DIGCAN:3
	22 AWG	WHT	CAB5-04	CAB5:4	DIGCAN:2
	22 AWG	BLU	CAB5-05	CAB5:5	DIGCAN:1
	16 AWG	ORG	CSP1-01	CSP1:1	NC
	16 AWG	BLU	CSP1-02	CSP1:2	NC
	16 AWG	WHT/BLK	CSP1-03	CSP1:3	TS2:231:b
	16 AWG	RED/BLK	CSP1-04	CSP1:4	TS2:238:b
	16 AWG	GRN/BLK	CSP1-05	CSP1:5	DIGIN2:8
	16 AWG	ORG/BLK	CSP1-06	CSP1:6	NC
	16 AWG	BLU/BLK	CSP1-07	CSP1:7	TS3:222:b
	16 AWG	BLK/WHT	CSP1-08	CSP1:8	TS2:112:b
	16 AWG	GRN	CSP1-09	CSP1:9	TS1:12:b
	16 AWG	RED	CSP1-10	CSP1:10	DIGIN2:10
	16 AWG	WHT	CSP1-11	CSP1:11	TS2:232:b
	16 AWG	BLK	CSP1-12	CSP1:12	TS2:212:b
	16 AWG	GRN	DCP1-01	DCP1:1	NC
	16 AWG	BLK	DCP1-02	DCP1:2	TS1:52:b
	16 AWG	WHT	DCP1-03	DCP1:3	NC
	22 AWG	BARE	DCP2-01	DCP2:1	DIGCAN:15
	22 AWG	RED	DCP2-02	DCP2:2	NC
	22 AWG	BLK	DCP2-03	DCP2:3	NC
	22 AWG	WHT	DCP2-04	DCP2:4	DIGCAN:14
	22 AWG	BLU	DCP2-05	DCP2:5	DIGCAN:13
	16 AWG	ORG	EIC1-01	EIC1:1	DIGOUT5:7
	16 AWG	BLU	EIC1-02	EIC1:2	DIGIN3:12
	16 AWG	WHT/BLK	EIC1-03	EIC1:3	DIGIN3:5
	16 AWG	RED/BLK	EIC1-04	EIC1:4	TS1:50:b
	16 AWG	GRN/BLK	EIC1-05	EIC1:5	DIGOUT5:5
	16 AWG	ORG/BLK	EIC1-06	EIC1:6	NC
	16 AWG	BLU/BLK	EIC1-07	EIC1:7	NC
	16 AWG	BLK/WHT	EIC1-08	EIC1:8	NC
	16 AWG	GRN	EIC1-09	EIC1:9	DIGIN3:9
	16 AWG	RED	EIC1-10	EIC1:10	DIGIN2:9
	16 AWG	WHT	EIC1-11	EIC1:11	TS1:45:b
	16 AWG	BLK	EIC1-12	EIC1:12	TS2:160:b
	22 AWG	BARE	EIC3-01	EIC3:1	DIGCAN:7
	22 AWG	RED	EIC3-02	EIC3:2	NC
	22 AWG	BLK	EIC3-03	EIC3:3	NC
	22 AWG	WHT	EIC3-04	EIC3:4	DIGCAN:6
	22 AWG	BLU	EIC3-05	EIC3:5	DIGCAN:5
	16 AWG	ORG	EST1-01	EST1:1	DIGIN3:2
	16 AWG	BLU	EST1-02	EST1:2	TS3:223:b
	16 AWG	WHT/BLK	EST1-03	EST1:3	DIGIN2:11
	16 AWG	RED/BLK	EST1-04	EST1:4	NC
	16 AWG	GRN/BLK	EST1-05	EST1:5	TS2:107:b
	16 AWG	ORG/BLK	EST1-06	EST1:6	TS2:109:b
	16 AWG	BLU/BLK	EST1-07	EST1:7	DIGIN3:3
	16 AWG	BLK/WHT	EST1-08	EST1:8	TS2:108:b
	16 AWG	GRN	EST1-09	EST1:9	DIGIN2:12
	16 AWG	RED	EST1-10	EST1:10	TS1:1:b

WIRE CHART				
GAUGE	COLOR	WIRE CODE	SOURCE	TARGET
16 AWG	WHT	ESTI-11	EST1:11	TS2:110:b
16 AWG	BLK	ESTI-12	EST1:12	TS3:226:b
16 AWG	ORG	FFR1-01	FFR1:1	NC
16 AWG	BLU	FFR1-02	FFR1:2	ALGIN1:11
16 AWG	WHT/BLK	FFR1-03	FFR1:3	DIGOUT2:6
16 AWG	RED/BLK	FFR1-04	FFR1:4	ALGIN1:12
16 AWG	GRN/BLK	FFR1-05	FFR1:5	NC
16 AWG	ORG/BLK	FFR1-06	FFR1:6	TS2:207:b
16 AWG	BLU/BLK	FFR1-07	FFR1:7	TS2:237:b
16 AWG	BLK/WHT	FFR1-08	FFR1:8	TS2:164:b
16 AWG	GRN	FFR1-09	FFR1:9	TS2:119:b
16 AWG	RED	FFR1-10	FFR1:10	TS2:223:b
16 AWG	WHT	FFR1 11	FFR1:11	TS2:224:b
16 AWG	BLK	FFR1-12	FFR1:12	TS2:165:b
16 AWG	ORG	FFR2-01	FFR2:1	TS2:120:b
16 AWG	BLU	FFR2-02	FFR2:2	ALGIN3:8
16 AWG	WHT/BLK	FFR2-03	FFR2:3	ALGIN1:15
16 AWG	RED/BLK	FFR2-04	FFR2:4	NC
16 AWG	GRN/BLK	FFR2-05	FFR2:5	DGIN1:11
16 AWG	ORG/BLK	FFR2-06	FFR2:6	NC
16 AWG	BLU/BLK	FFR2-07	FFR2:7	ALGIN1:13
16 AWG	BLK/WHT	FFR2-08	FFR2:8	TS2:166:b
16 AWG	GRN	FFR2-09	FFR2:9	ALGIN1:14
16 AWG	RED	FFR2-10	FFR2:10	TS2:125:b
16 AWG	WHT	FFR2-11	FFR2:11	TS2:126:b
16 AWG	BLK	FFR2-12	FFR2:12	TS2:167:b
16 AWG	ORG	FPL1-01	FPL1:1	TS2:123:b
16 AWG	BLU	FPL1-02	FPL1:2	TS2:266:b
16 AWG	WHT/BLK	FPL1-03	FPL1:3	TS2:124:b
16 AWG	RED/BLK	FPL1-04	FPL1:4	TS2:269:b
16 AWG	GRN/BLK	FPL1-05	FPL1:5	NC
16 AWG	ORG/BLK	FPL1-06	FPL1:6	NC
16 AWG	BLU/BLK	FPL1-07	FPL1:7	NC
16 AWG	BLK/WHT	FPL1-08	FPL1:8	NC
16 AWG	GRN	FPL1-09	FPL1:9	NC
16 AWG	RED	FPL1-10	FPL1:10	NC
16 AWG	WHT	FPL1-11	FPL1:11	NC
16 AWG	BLK	FPL1-012	FPL1:12	NC
16 AWG	ORG	FPL2-01	FPL2:1	TS2:213:b
16 AWG	BLU	FPL2-02	FPL2:2	TS2:270:b
16 AWG	WHT/BLK	FPL2-03	FPL2:3	TS2:214:b
16 AWG	RED/BLK	FPL2-04	FPL2:4	TS2:251:a
16 AWG	GRN/BLK	FPL2-05	FPL2:5	NC
16 AWG	ORG/BLK	FPL2-06	FPL2:6	NC
16 AWG	BLU/BLK	FPL2-07	FPL2:7	NC
16 AWG	BLK/WHT	FPL2-08	FPL2:8	NC
16 AWG	GRN	FPL2-09	FPL2:9	NC
16 AWG	RED	FPL2-10	FPL2:10	NC
16 AWG	WHT	FPL2-11	FPL2:11	NC
16 AWG	BLK	FPL2-12	FPL2:12	NC
16 AWG	ORG	KLZ1-01	KLZ1:1	DIGOUT4:10
16 AWG	BLU	KLZ1-02	KLZ1:2	DIGOUT4:9
16 AWG	WHT/BLK	KLZ1-03	KLZ1:3	DIGOUT4:8
16 AWG	RED/BLK	KLZ1-04	KLZ1:4	DIGOUT4:7
16 AWG	GRN/BLK	KLZ1-05	KLZ1:5	DIGOUT4:6
16 AWG	ORG/BLK	KLZ1-06	KLZ1:6	DIGOUT4:5
16 AWG	BLU/BLK	KLZ1-07	KLZ1:7	DIGOUT4:4
16 AWG	BLK/WHT	KLZ1-08	KLZ1:8	TS2:184:a
16 AWG	GRN	KLZ1-09	KLZ1:9	ALGIN2:3
16 AWG	RED	KLZ1-10	KLZ1:10	TS2:233:b
16 AWG	WHT	KLZ1-11	KLZ1:11	TS2:234:b
16 AWG	BLK	KLZ1-12	KLZ1:12	TS2:166:a
16 AWG	GRN	LLC1-01	LLC1:1	TS2:111:b
16 AWG	BLK	LLC1-02	LLC1:2	TS3:221:b
16 AWG	WHT	LLC1-03	LLC1:3	TS2:211:b
16 AWG	ORG	MBR1-01	MBR1:1	TS2:241:b
16 AWG	BLU	MBR1-02	MBR1:2	TS2:162:b
16 AWG	WHT/BLK	MBR1-03	MBR1:3	TS2:215:b
16 AWG	RED/BLK	MBR1-04	MBR1:4	TS2:252:a
16 AWG	GRN/BLK	MBR1-05	MBR1:5	TS2:216:b
16 AWG	ORG/BLK	MBR1-06	MBR1:6	TS2:253:a
16 AWG	BLU/BLK	MBR1-07	MBR1:7	TS2:217:b
16 AWG	BLK/WHT	MBR1-08	MBR1:8	TS2:254:a
16 AWG	GRN	MBR1-09	MBR1:9	DIGOUT3:1
16 AWG	RED	MBR1-10	MBR1:10	TS2:167:a
16 AWG	WHT	MBR1-11	MBR1:11	TS2:117:b
16 AWG	BLK	MBR1-12	MBR1:12	TS2:168:b
16 AWG	ORG	MBR2-01	MBR2:1	TS2:239:b
16 AWG	BLU	MBR2-02	MBR2:2	TS2:153:b
16 AWG	WHT/BLK	MBR2-03	MBR2:3	TS2:218:b
16 AWG	RED/BLK	MBR2-04	MBR2:4	TS2:255:a
16 AWG	GRN/BLK	MBR2-05	MBR2:5	TS2:219:b
16 AWG	ORG/BLK	MBR2-06	MBR2:6	TS2:256:a
16 AWG	BLU/BLK	MBR2-07	MBR2:7	TS2:220:b
16 AWG	BLK/WHT	MBR2-08	MBR2:8	TS2:257:a
16 AWG	GRN	MBR2 09	MBR2:9	TS3:152:b
16 AWG	RED	MBR2-10	MBR2:10	TS2:158:b
16 AWG	WHT	MBR2-11	MBR2:11	NC
16 AWG	BLK	MBR2-12	MBR2:12	NC
16 AWG	ORG	PCP1-01	PCP1:1	DIGOUT3:5
16 AWG	BLU	PCP1-02	PCP1:2	DIGOUT3:6
16 AWG	WHT/BLK	PCP1-03	PCP1:3	NC
16 AWG	RED/BLK	PCP1-04	PCP1:4	ALGIN3:11
16 AWG	GRN/BLK	PCP1-05	PCP1:5	NC
16 AWG	ORG/BLK	PCP1-06	PCP1:6	AI GIN3:10
16 AWG	BLU/BLK	PCP1-07	PCP1:7	DIGOUT3:6
16 AWG	BLK/WHT	PCP1-08	PCP1:8	TS2:251:b
16 AWG	GRN	PCP1-09	PCP1:9	DIGOUT3:7
16 AWG	RED	PCP1-10	PCP1:10	TS2:127:b
16 AWG	WHT	PCP1-11	PCP1:11	TS2:128:b

WIRE CHART				
GAUGE	COLOR	WIRE CODE	SOURCE	TARGET
16 AWG	BLK	PCP1-12	PCP1:12	TS2:252:b
16 AWG	ORG	PCP2-01	PCP2:1	DIGOUT3:4
16 AWG	BLU	PCP2-02	PCP2:2	ALGIN1:16
16 AWG	WHT/BLK	PCP2-03	PCP2:3	DIGOUT3:3
16 AWG	RED/BLK	PCP2-04	PCP2:4	DIGOUT3:12
16 AWG	GRN/BLK	PCP2-05	PCP2:5	ALGIN3:9
16 AWG	ORG/BLK	PCP2-06	PCP2:6	DIGOUT2:5
16 AWG	BLU/BLK	PCP2-07	PCP2:7	ALGIN2:1
16 AWG	BLK/WHT	PCP2-08	PCP2:8	TS2:253:b
16 AWG	GRN	PCP2-09	PCP2:9	ALGIN2:2
16 AWG	RED	PCP2-10	PCP2:10	TS2:129:b
16 AWG	WHT	PCP2-11	PCP2:11	TS2:130:b
16 AWG	BLK	PCP2-12	PCP2:12	TS2:254:b
16 AWG	ORG	RAX1-01	RAX1:1	NC
16 AWG	BLU	RAX1-02	RAX1:2	NC
16 AWG	WHT/BLK	RAX1-03	RAX1:3	ALGIN3:4
16 AWG	RED/BLK	RAX1-04	RAX1:4	NC
16 AWG	GRN/BLK	RAX1-05	RAX1:5	ALGIN3:3
16 AWG	ORG/BLK	RAX1-06	RAX1:6	NC
16 AWG	BLU/BLK	RAX1-07	RAX1:7	DIGIN2:7
16 AWG	BLK/WHT	RAX1-08	RAX1:8	TS2:255:b
16 AWG	GRN	RAX1-09	RAX1:9	TS2:208:b
16 AWG	RED	RAX1-10	RAX1:10	TS2:135:b
16 AWG	WHT	RAX1-11	RAX1:11	TS2:136:b
16 AWG	BLK	RAX1-12	RAX1:12	TS2:256:b
16 AWG	ORG	RCL1-01	RCL1:1	TS2:222:b
16 AWG	BLU	RCL1-02	RCL1:2	TS2:259:a
16 AWG	WHT/BLK	RCL1-03	RCL1:3	TS2:240:b
16 AWG	RED/BLK	RCL1-04	RCL1:4	DIGOUT3:10
16 AWG	GRN/BLK	RCL1-05	RCL1:5	TS2:154:b
16 AWG	ORG/BLK	RCL1-06	RCL1:6	TS2:155:b
16 AWG	BLU/BLK	RCL1-07	RCL1:7	TS2:143:b
16 AWG	BLK/WHT	RCL1-08	RCL1:8	TS1:31:b
16 AWG	GRN	RCL1-09	RCL1:9	TS2:170:b
16 AWG	RED	RCL1-10	RCL1:10	TS2:242:b
16 AWG	WHT	RCL1-11	RCL1:11	TS2:221:b
16 AWG	BLK	RCL1-12	RCL1:12	TS2:258:a
16 AWG	GRN	RCL2-01	RCL2:1	TS2:169:b
16 AWG	BLK	RCL2-02	RCL2:2	TS2:118:b
16 AWG	WHT	RCL2-03	RCL2:3	NC
16 AWG	ORG	RFF1-01	RFF1:1	TS2:204:b
16 AWG	BLU	RFF1-02	RFF1:2	NC
16 AWG	WHT/BLK	RFF1-03	RFF1:3	ALGIN2:4
16 AWG	RED/BLK	RFF1-04	RFF1:4	ALGIN2:5
16 AWG	GRN/BLK	RFF1-05	RFF1:5	DIGIN3:11
16 AWG	ORG/BLK	RFF1-06	RFF1:6	DIGOUT5:10
16 AWG	BLU/BLK	RFF1-07	RFF1:7	ALGIN3:5
16 AWG	BLK/WHT	RFF1-08	RFF1:8	TS2:257:b
16 AWG	GRN	RFF1-09	RFF1:9	NC
16 AWG	RED	RFF1-10	RFF1:10	TS2:206:b
16 AWG	WHT	RFF1-11	RFF1:11	TS2:205:b
16 AWG	BLK	RFF1-12	RFF1:12	TS2:258:b
16 AWG	ORG	RFF2-01	RFF2:1	DIGOUT5:9
16 AWG	BLU	RFF2-02	RFF2:2	TS2:122:b
16 AWG	WHT/BLK	RFF2-03	RFF2:3	DIGIN2:2
16 AWG	RED/BLK	RFF2-04	RFF2:4	DIGOUT5:1
16 AWG	GRN/BLK	RFF2-05	RFF2:5	DIGOUT4:1
16 AWG	ORG/BLK	RFF2-06	RFF2:6	DIGOUT5:8
16 AWG	BLU/BLK	RFF2-07	RFF2:7	NC
16 AWG	BLK/WHT	RFF2-08	RFF2:8	TS2:259:b
16 AWG	GRN	RFF2-09	RFF2:9	NC
16 AWG	RED	RFF2-10	RFF2:10	TS2:225:b
16 AWG	WHT	RFF2-11	RFF2:11	TS2:226:b
16 AWG	BLK	RFF2-12	RFF2:12	TS2:260:b
16 AWG	ORG	RFF3-01	RFF3:1	ALGIN2:13
16 AWG	BLU	RFF3-02	RFF3:2	ALGIN2:11
16 AWG	WHT/BLK	RFF3-03	RFF3:3	ALGIN2:7
16 AWG	RED/BLK	RFF3-04	RFF3:4	ALGIN2:12
16 AWG	GRN/BLK	RFF3-05	RFF3:5	ALGIN2:6
16 AWG	ORG/BLK	RFF3-06	RFF3:6	DIGOUT5:11
16 AWG	BLU/BLK	RFF3-07	RFF3:7	ALGIN2:9
16 AWG	BLK/WHT	RFF3-08	RFF3:8	TS2:261:b
16 AWG	GRN	RFF3-09	RFF3:9	ALGIN2:8
16 AWG	RED	RFF3-10	RFF3:10	TS2:227:b
16 AWG	WHT	RFF3-11	RFF3:11	TS2:228:b
16 AWG	BLK	RFF3-12	RFF3:12	TS2:262:b
16 AWG	ORG	RFF4-01	RFF4:1	ALGIN2:16
16 AWG	BLU	RFF4-02	RFF4:2	ALGIN3:1
16 AWG	WHT/BLK	RFF4-03	RFF4:3	ALGIN2:10
16 AWG	RED/BLK	RFF4-04	RFF4:4	ALGIN3:2
16 AWG	GRN/BLK	RFF4-05	RFF4:5	DIGIN1:2
16 AWG	ORG/BLK	RFF4-06	RFF4:6	DIGOUT1:7
16 AWG	BLU/BLK	RFF4-07	RFF4:7	ALGIN2:15
16 AWG	BLK/WHT	RFF4-08	RFF4:8	TS2:263:b
16 AWG	GRN	RFF4-09	RFF4:9	ALGIN2:14
16 AWG	RED	RFF4-10	RFF4:10	TS2:229:b
16 AWG	WHT	RFF4-11	RFF4:11	TS2:230:b
16 AWG	BLK	RFF4-12	RFF4:12	TS2:264:b
16 AWG	ORG	RFF5-01	RFF5:1	ALGIN3:7
16 AWG	BLU	RFF5-02	RFF5:2	ALGIN3:12
16 AWG	WHT/BLK	RFF5-03	RFF5:3	NC
16 AWG	RED/BLK	RFF5-04	RFF5:4	ALGIN3:13
16 AWG	GRN/BLK	RFF5-05	RFF5:5	DIGOUT5:4
16 AWG	ORG/BLK	RFF5-06	RFF5:6	TS2:103:a
16 AWG	BLU/BLK	RFF5-07	RFF5:7	DIGOUT2:13
16 AWG	BLK/WHT	RFF5-08	RFF5:8	TS2:265:b
16 AWG	GRN	RFF5-09	RFF5:9	DIGOUT2:12
16 AWG	RED	RFF5-10	RFF5:10	TS2:131:b
16 AWG	WHT	RFF5-11	RFF5:11	TS2:132:b
16 AWG	BLK	RFF5-12	RFF5:12	TS2:266:b

WIRE CHART				
GAUGE	COLOR	WIRE CODE	SOURCE	TARGET
16 AWG	ORG	RFM1-01	RFM1:1	DIGIN2:3
16 AWG	BLU	RFM1-02	RFM1:2	NC
16 AWG	WHT/BLK	RFM1-03	RFM1:3	NC
16 AWG	RED/BLK	RFM1-04	RFM1:4	ALGIN3:6
16 AWG	GRN/BLK	RFM1-05	RFM1:5	ALGIN1:10
16 AWG	ORG/BLK	RFM1-06	RFM1:6	DIGIN3:10
16 AWG	BLU/BLK	RFM1-07	RFM1:7	DIGIN1:3
16 AWG	BLK/WHT	RFM1-08	RFM1:8	TS2:267:b
16 AWG	GRN	RFM1-09	RFM1:9	TS2:121:b
16 AWG	RED	RFM1-10	RFM1:10	TS2:133:b
16 AWG	WHT	RFM1-11	RFM1:11	TS2:134:b
16 AWG	BLK	RFM1-12	RFM1:12	TS2:280:a
16 AWG	ORG	SRC1-01	SRC1:1	DIGIN1:12
16 AWG	BLU	SRC1-02	SRC1:2	NC
16 AWG	WHT/BLK	SRC1-03	SRC1:3	TS3:113:b
16 AWG	RED/BLK	SRC1-04	SRC1:4	ALGIN1:3
16 AWG	GRN/BLK	SRC1-05	SRC1:5	TS1:11:b
16 AWG	ORG/BLK	SRC1-06	SRC1:6	TS1:51:b
16 AWG	BLU/BLK	SRC1-07	SRC1:7	NC
16 AWG	BLK/WHT	SRC1-08	SRC1:8	NC
16 AWG	GRN	SRC1-09	SRC1:9	NC
16 AWG	RED	SRC1-10	SRC1:10	TS2:157:b
16 AWG	WHT	SRC1-11	SRC1:11	TS2:158:b
16 AWG	BLK	SRC1-12	SRC1:12	TS2:159:b
22 AWG	BARE	SRC2-01	SRC2:1	DIGCAN:11
22 AWG	RED	SRC2-02	SRC2:2	NC
22 AWG	BLK	SRC2-03	SRC2:3	NC
22 AWG	WHT	SRC2-04	SRC2:4	DIGCAN:10
22 AWG	BLU	SRC2-05	SRC2:5	DIGCAN:9
16 AWG		0F4	TS1:50a	TS3:255:b
16 AWG		0B	TS3:211:b	TS1:2:b
16 AWG		0BA	TS3:110:b	CONT_PWRV1
16 AWG		0BD	TS3:210:b	DIGPWR:7
14 AWG		0C	TS3:117:b	TS1:3:b
10 AWG		0E	TS3:162:b	TS1:5:b
14 AWG		0E1	TS3:229:b	TS1:6:b
14 AWG		0E1A	TS3:129:b	TS1:27:a
10 AWG		0EA	TS3:282:b	TS2:235:a
10 AWG		0F	TS3:155:b	TS1:7:b
10 AWG		0F	TS3:156:b	TS1:8:b
16 AWG		0F2A	TS3:116:b	TS1:51:a
16 AWG		0F3	TS3:227:b	CRTD:1
12 AWG		0FA	TS3:258:b	TS2:137:a
12 AWG		0FA	TS3:257:b	TS2:138:a
14 AWG		0K	TS3:235:b	TS1:13:b
14 AWG		0KA	TS3:135:b	TS2:117:a
14 AWG		0L	TS3:236:b	TS1:14:b
14 AWG		0LA	TS3:136:b	TS1:29:a
14 AWG		0M	TS3:237:b	TS1:15:b
14 AWG		0MA	TS3:137:b	TS2:123:a
14 AWG		0N	TS3:238:b	TS1:16:b
14 AWG		0NA	TS3:138:b	TS2:213:a
14 AWG		0P	TS3:239:b	TS1:17:b
14 AWG		0PA	TS3:139:b	TS2:215:a
14 AWG		0R	TS3:240:b	TS1:18:b
14 AWG		0RA	TS3:140:b	TS2:218:a
14 AWG		0S	TS3:241:b	TS1:19:b
14 AWG		0SA	TS3:141:b	TS2:221:a
10 AWG		0T	TS3:160:b	CB21:2
10 AWG		0TA	TS3:260:b	TS1:46:a
10 AWG		0V	TS3:159:b	TS1:21:b
10 AWG		0VA	TS3:259:b	TS1:32:a
10 AWG		0W	TS3:161:b	TS1:22:b
10 AWG		0WA	TS3:261:b	TS1:40:a
14 AWG		0Y	TS3:112:b	TS1:24:b
14 AWG		0Z	TS3:230:b	TS1:20:b
14 AWG		01	TS3:252:b	TS1:49:b
16 AWG		3B	TS3:204:b	TS2:202:b
14 AWG		13	TS3:220:b	TS2:207:a
16 AWG		0I8	TS3:217:b	DIGIN1:8
16 AWG		DO2	TS3:114:b	DIGOUT1:11
16 AWG		DO4	TS3:246:b	DIGOUT1:9
16 AWG		DO5	TS3:245:b	DIGOUT1:8
16 AWG		DO7	TS3:243:b	DIGOUT1:6
16 AWG		DO8	TS3:242:b	DIGOUT1:5
16 AWG		DO17	TS3:250:b	DIGOUT2:10
16 AWG		DO10	TS3:249:b	DIGOUT2:9
16 AWG		DO19	TS3:248:b	DIGOUT2:8
16 AWG		DO23	TS3:115:b	DIGOUT2:3
16 AWG		DO24	TS3:109:b	DIGOUT2:1
16 AWG		DO35	TS3:251:b	DIGOUT3:2
16 AWG		EST1-02	TS3:224:b	DIGIN3:1
12 AWG		GND	TS3:150:b	GND:7
12 AWG		GND	TS3:122:b	GND:1

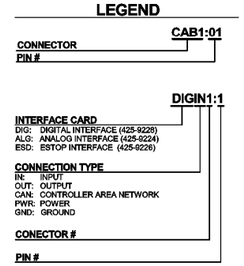
NOTE:
ALL WIRE MUST BE RUN BEFORE INSTALLING THE RELAY PANEL (426-5198), THEN CONNECTED TO TS3 AFTER INSTALLATION.

NOTE CAB 5:
STRIP AND PLACE BOTH CAB 5-01 AND CAB 5-03 WIRES INSIDE 4270205 16 GA FERRULE, CRIMP AND INSTALL IN DIGCAN-3

NOTE:
SEE TERMINAL BLOCK TORQUE SPECIFICATIONS CHART PRIOR TO INSTALLING WIRES IN THE TERMINAL BLOCKS.

REVISIONS						
ZONE	REV	DESCRIPTION	ECR	DATE	CHD	CHK
	00	RELEASE	NL11-1829	10-31-11	JFM	BS BS
	01	UPD REAR CONNECTORS & INTERCONNECTIONS				
	01	FOR RELAYS CRES1 THRU 3 & TERM BLKS 156-160	NL11-1843	12-07-11	LW	BAS BS
	02	UPDATED WIRE CHART	NL12-2466	12-06-12	LW	BAS BS
	03	NO CHANGE THIS SHEET	NL13-1273	3-21-13	JFM	BAS BS

LEGEND



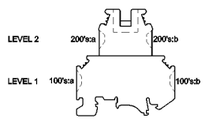
NC: NO CONNECTION

CONV: CONVERTER 24V TO 12V (427-0219)

CONTPWR: MACHINE CONTROLLER POWER (426-8633)

[: TERMINAL BRIDGE

—: SEPERATING PLATE



TERMINAL BLOCK LAYOUT

TORQUE SPECIFICATIONS CHART					
ITEM NO.	LTI P/N	MIN TORQUE (ft lb)	MAX TORQUE (ft lb)	MIN TORQUE (Nm)	MAX TORQUE (Nm)

LOW VOLTAGE CONTROL CABINET ASSEMBLY

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LOW VOLTAGE CONTROL CABINET ASSEMBLY

Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4274479			LOW VOLTAGE CONTROL CABINET ASSEMBLY		12/6/16
1	R4263793	1		· LOW VOLTAGE CONTROL CABINET STRUCTURE		
	R4286004	1		· · DOOR, LEFT - WITH GASKET, LVCC		12/6/16
	R4286005	1		· · DOOR, RIGHT - WITH GASKET, LVCC		12/6/16
2	R4274387	1		· PANEL ASSEMBLY, LOW VOLTAGE LINCS II (PAGE 5.92-5.92A)		
3	R4274400	1		· PANEL ASSEMBLY, LINCS II RELAY (PAGE 5.93-5.93A)		
4	R4046896	30		· RING, SEALING - 1/2" - CONDUIT		
5	R4265239	25		· RECEPTACLE, 12 PIN - FEMALE		
6	R4265238	3		· RECEPTACLE, 3 PIN - FEMALE		
7	R4264189	4		· RECEPTACLE, CAN - FEMALE		
8	R4264193	1		· RECEPTACLE, E-NET - FEMALE		
9	N.P.N.			· NOT USED		
10	R4004688	2		· CONNECTOR, CABLE - 1/2"		
11	R4230605	30		· NUT, BRASS - 1/2"		
12	N.P.N.			· NOT USED		
13	R4066606	2		· TERMINAL, WIRE - #1/0, 3/8" HOLE		
14	R4265214	1		· CODE SHEET ASSEMBLY, LVCC LINCS II		
15	R4120401	100	FT	· CABLE, #16 AWG 600V		
16	R4079832	120	FT	· CABLE, #14 AWG 600V		
17	R4111903	30	FT	· CABLE, #12 AWG 2000V		
18	R4111910	12	FT	· CABLE, 1/0 AWG		
19	R4255434	1		· CAP FOR M12 CONNECTOR BREAKOUT BOX		
20	R0810970	2		· BOLT, 3/8"-16 X 3/4"		
21	R0986145	1		· CLAMP, CABLE - INSULATED, 1-1/2"		
22	R0986144	1		· CLAMP, CABLE - INSULATED, 1-1/4"		
23	R0985113	2		· LOCKNUT, 3/8"-16 - NYLON		
24	R4270202	12		· FERRULE, 22 AWG - PURPLE		
25	R4270205	286		· FERRULE, INSULATED - 16AWG .315LG BLACK		
26	R4270206	36		· FERRULE, INSULATED - BLUE		
27	R4270207	8		· FERRULE, 12 AWG - GRAY		
28	R4079983	20		· CABLE TIE, 1/16" X 3"		
29	R4270070	AR		· LOCTITE 242		
30	R4274370	2		· LABELS		
31	R4232049	36	FT	· CABLE, #10 AWG 600V		
32	R4270208	18		· FERRULE, 10 AWG - YELLOW		
	R4278988	REF		LABEL, DO NOT WASH - ENGLISH AND TURKISH	1	5/6/13
		REF		DRAWING, LOW VOLTAGE CONTROL CABINET ASSEMBLY (R427447903)		5/6/13

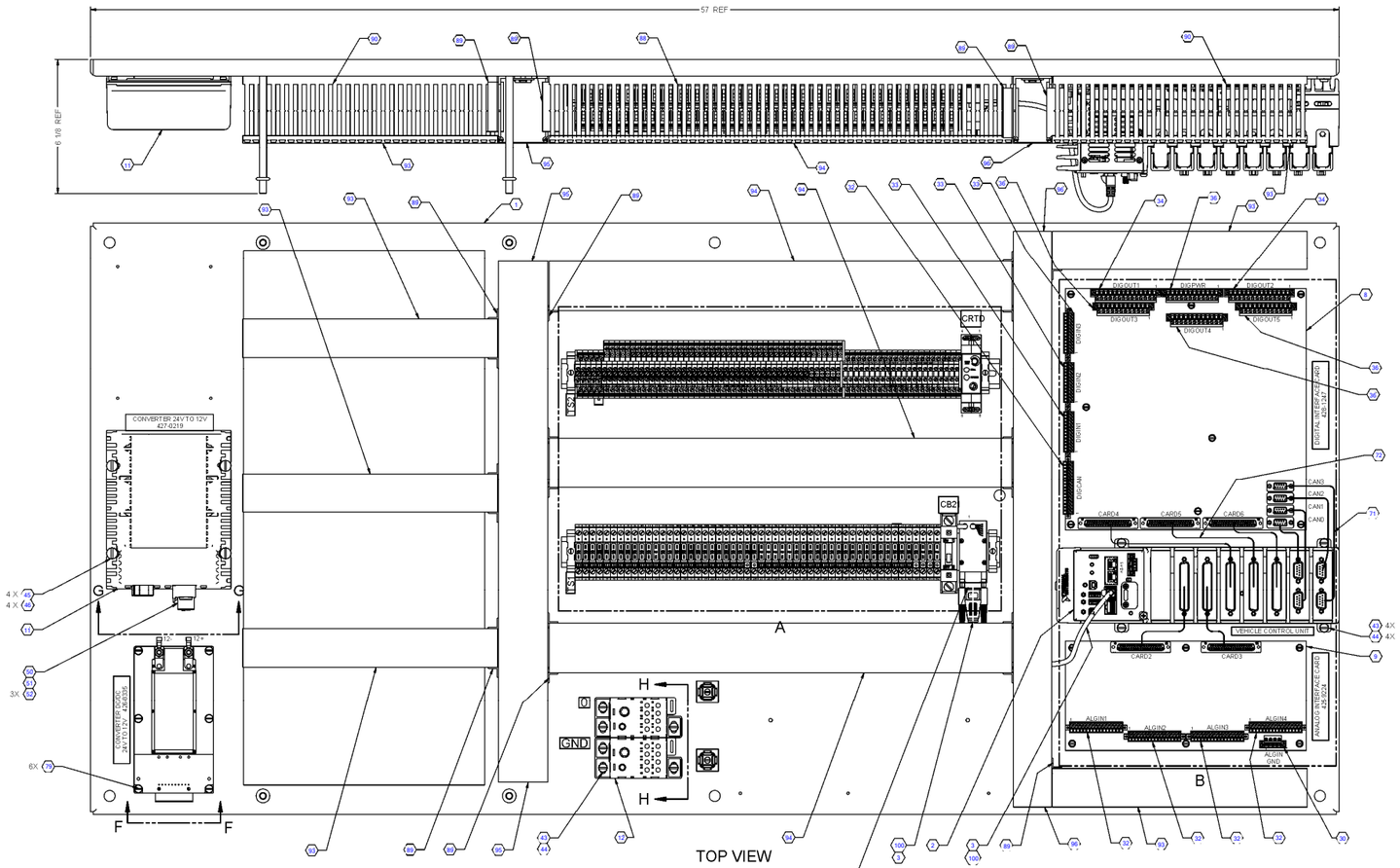
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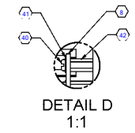
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

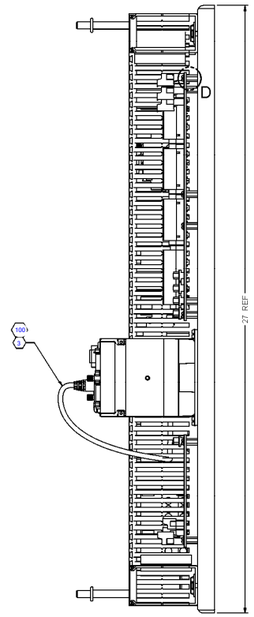
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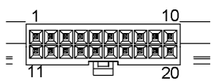
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LOW VOLTAGE PANEL ASSEMBLY, LINCS II

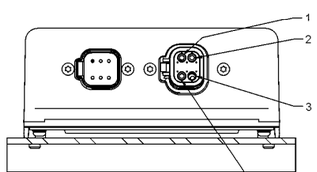




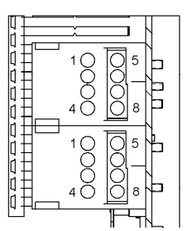




SECTION F-F
2:1



SECTION G-G
1:1



SECTION H-H
1:1

MACHINE I.D. PROGRAM CHART		
MACHINE	PART NUMBER	MACHINE I.D. DESCRIPTION
L-115B	4282771	MACH. I.D. KEY PROGRAMMED L-115B GEN 2
L-125B	1A318	MACH. I.D. KEY PROGRAMMED L-125B GEN 3
L-135B	4282772	MACH. I.D. KEY PROGRAMMED L-135B GEN 2
L-185B	4282773	MACH. I.D. KEY PROGRAMMED L-185B GEN 2
L-250B	4282774	MACH. I.D. KEY PROGRAMMED L-250B GEN 2

ITEM	PART NO.	QTY	DESCRIPTION
100	4282842	1	CABLE ASSY, DB9 DATA 72 LG
99	4277163	1	CIRCUIT BREAKER - 40 AMP
98	4265748	2	BRIDGE INSERTION PHOENIX 02 01 13 9
97	4274370	1	LABELS FOR BRADY ID PAL LABELER
96	4274338	1	COVER WIRING DUCT 1.5W 26 1/4
95	4274337	1	COVER WIRING DUCT 2.0W 23 3/4
94	4274338	3	COVER WIRING DUCT 2.0W 21 1/8
93	4274334	5	COVER WIRING DUCT 1.5W 11 5/8
92	4274332	1	DUCT WIRING 2.0W X 3 X 23 3/4
91	4274331	1	DUCT WIRING 1.5W X 3 X 26 1/4
90	4274327	5	DUCT WIRING 1.5W X 3 X 11 5/8LG
89	4274333	19	CORNER STRIP DUCT WHT PVC 2 1/4
88	4274330	3	DUCT WIRING 2.0W X 3 X 21LG
87	4270208	10	FERRULE INS 10AWG .472LG YELLOW
86	4270205	51	FERRULE INS 16AWG .315LG BLK
85	4270206	35	FERRULE INS 14AWG .315LG BLUE
84	4270207	17	FERRULE INS 12AWG .472LG GRAY
83	4270204	2	FERRULE INS 18AWG .315LG RED
82	4274419	1	TERMINAL MARKERS LOW VOLTAGE
81	4019418	2	WIRE TERM RT 16-14 #10 INS (BLU)
80	4111900	30.00	CABLE POLYOLEFIN #18 AWG
79	0182893	6	MSCR FH #8 .500 NC
78	4268335	1	ASSEMBLY DC/DC CONVERTER 24V TO 12V
77	4268336	1	CONNECTOR KIT - INPUT
76	4111904	20 FT	CABLE #10 AWG 1C XLP SHP 600V
75	4079832	12 FT	CABLE #14 AWG 1C EXANE DLO 600 VAC
74	4111903	42 FT	CABLE #12 AWG 1C XLP SHP 600V
73	4120401	100	CABLE #18 AWG EXANE DLO 600 VAC
72	4260954	5	CABLE DB37 M-F LINCS II
71	4260953	4	ASSY CABLE DB9 M-F LINCS II
70	4228727	2	MARKER DIN TERM BLOCK#271-280
69	4228726	2	MARKER DIN TERM BLOCK#261-270
68	4228725	4	MARKER DIN TERM BLOCK#251-260
67	4228724	2	MARKER DIN TERM BLOCK#241-250
66	4228723	1	MARKER DIN TERM BLOCK#231-240
65	4228722	1	MARKER DIN TERM BLOCK#221-230
64	4228721	1	MARKER DIN TERM BLOCK#211-220
63	4228720	1	MARKER DIN TERM BLOCK#201-210
62	4228717	2	MARKER DIN TERM BLOCK#171-180
61	4228716	2	MARKER DIN TERM BLOCK#161-170
60	4228715	4	MARKER DIN TERM BLOCK#151-160
59	4228714	2	MARKER DIN TERM BLOCK#141-150
58	4228713	1	MARKER DIN TERM BLOCK#131-140
57	4228712	1	MARKER DIN TERM BLOCK#121-130
56	4228711	1	MARKER DIN TERM BLK #111-120
55	4228710	1	MARKER DIN TERM BLOCK#101-110
54	4153881	3	CONTACT #12 SOCKET
53	4240042	1	WEDGE WP-4S DEUTSCH
52	4240040	1	PLUG DTP06-4S DEUTSCH
51	4274403	1	CODE SHEET LVCC PANEL LINCS II
50	0506807	4	WASHER LOCK EXT .256 .51 .03
49	0222286	4	MSCR PH .250 .625 NC
48	0182634	16	WASHER LOCK EXT .195 .41 .03
47	4010283	16	MSCR PH #10 .500 NF
46	4270211	14	STDOFF THD M/F 1/4HX #6NC 1/2LG SS
45	4010914	14	WASHER EXT STAR #6
44	0260712	14	MSCR PH #6-32 UNC-2A X 7/16 LG
43	4266266	78	BRIDGE FIXED PHOENIX FB10-6
42	4012067	39	MSCR PH #6 .375 NC
41	4078040	39	MOUNT, CABLE TIE, ADHESIVE
40	4220491	4	TERMINAL PLUG 12 POS 5.08 PITCH
39	4259171	2	TERMINAL PLUG 14 POS 5.08 PITCH
38	4259260	3	TERMINAL PLUG 12 POS 3.81 PITCH
37	4259207	5	TERMINAL PLUG 16 POS 3.81 PITCH
36	4220487	1	TERMINAL PLUG 4 POS
35	4265747	2	FUSE-30A 32V BLADE TYPE
34	4265746	6	FUSE-25A 32V BLADE TYPE
33	4265745	1	FUSE-20A 32V BLADE TYPE
32	4265744	7	FUSE-15A 32V BLADE TYPE
31	4265743	28	FUSE-10A 32V BLADE TYPE
30	4265742	8	FUSE-5A 32V BLADE TYPE
29	4228656	47	PLATE SEPARATING PHOENIX TS-KK3
28	4264185	46	BRIDGE FIXED PHOENIX 02 03 26 3
27	4264183	22	TERM BLK GND PHOENIX 27 74 21 1
26	4264184	1	TERM BLK COVER PHOENIX 27 71 02 3
25	4264180	45	TERM BLK GRAY PHOENIX 27 71 14 6
24	4264181	5	TERM BLK DIODE PHOENIX
23	4247479	1	SPCR PLT DBL TERM BLK 2770794
22	4264182	52	TERM BLK FUSE PHOENIX 30 01 93 8
21	4265756	4	BRACKET END PHOENIX 08 00 88 6
20	4265740	2	RAIL MOUNTING 20.00 LG DIN
19	4253965	2	POWER DISTR BLOCK COPPER 310A
18	4270219	1	CONVERTER, 24V TO 12V, 30A
17	4274535	1	TIME DELAY RELAY 0.5 SEC
16	4259224	1	CARD ASSEMBLY ANALOG INTERFACE CARD
15	4281247	1	CARD ASSEMBLY DIGITAL CARD
14	4259752	2	VCU, 2 PORT CAN MODULE
13	4258751	3	VCU 32CH TTL DIGITAL I/O MODULE
12	4258750	2	VCU ANALOG INPUT MODULE
11	4260947	1	VCU BLANK MODULE
10	4288955	1	CABLE ASSY S8 SERIAL 1M
9	4288956	1	ASSY CRIO-9038 PROGRAMMED
8	4260944	1	PANEL LOW VOLTAGE LINCS II
ITEM	PART NO.	QTY	DESCRIPTION

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1660.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°; FRAC TIONS ±1/16; XX DECIMAL ±.03; XXX DECIMAL ±.015
- MACHINED CORNERS .19R X 45°
- HELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 4274479

DWN	lwilliams	12-02-11
CHK	BAS	12-06-11
ENGR	BS	12-06-11
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY PANEL LOW VOLTAGE LINCS II

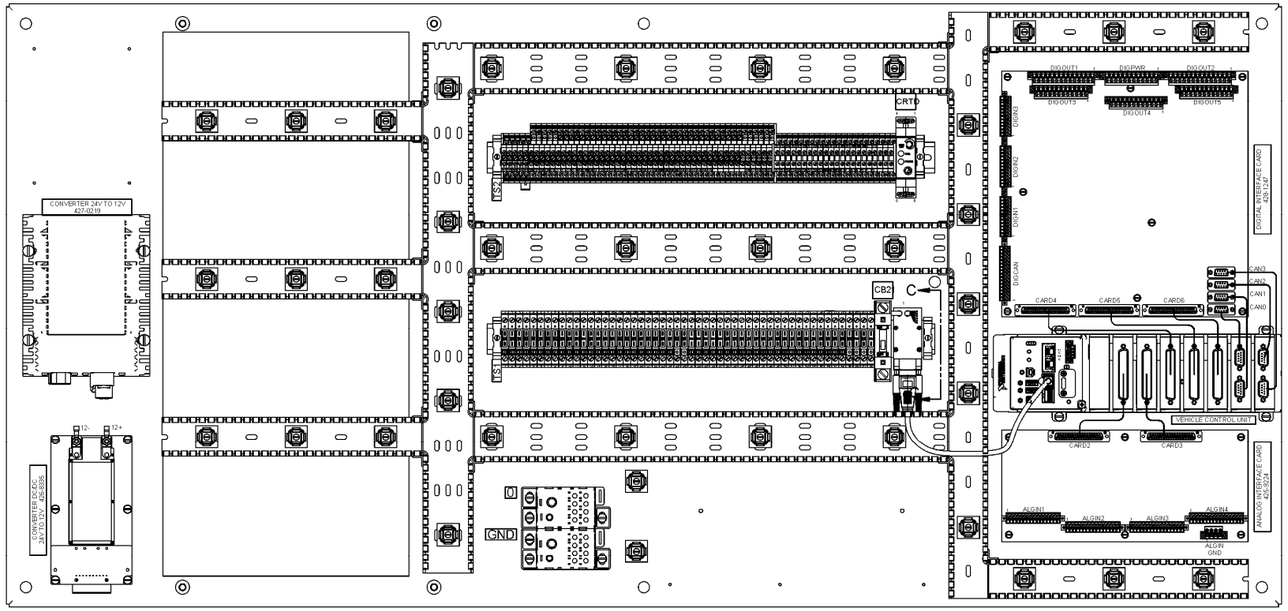
SIZE E | DO NOT SCALE | DWG NO. 4274387 | REV 05

SCALE 1:4 | WEIGHT 100.1 lbs | SHEET 1 OF 4

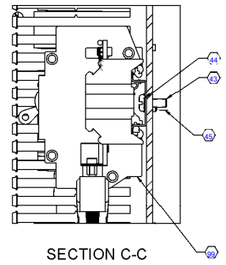
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LOW VOLTAGE PANEL ASSEMBLY, LINCS II



TOP VIEW
CONDUIT LAYOUT
WITH COVERS OMITTED
FOR CLARITY



SECTION C-C
1:1

ASSY PANEL LOW VOLTAGE LINCS II					
DRAWN	bellanz	E	DO NOT SCALE	DWG NO. 4274387	REV 05
DATE	12-02-11	SCALE 1/4	WEIGHT -	SHEET 2 OF 4	

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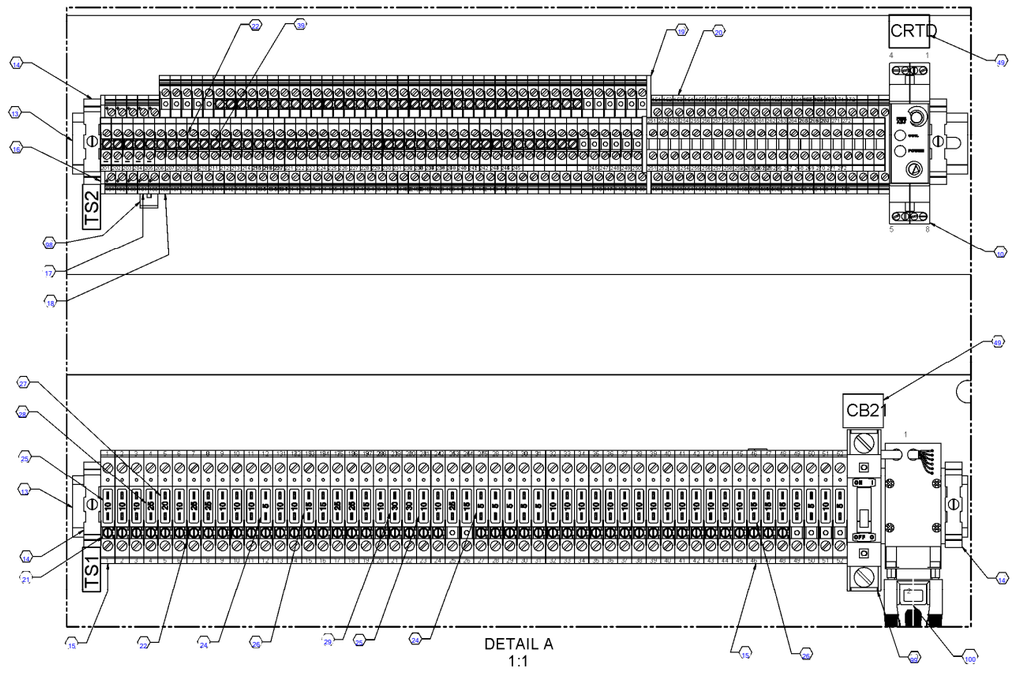
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LOW VOLTAGE PANEL ASSEMBLY, LINCS II

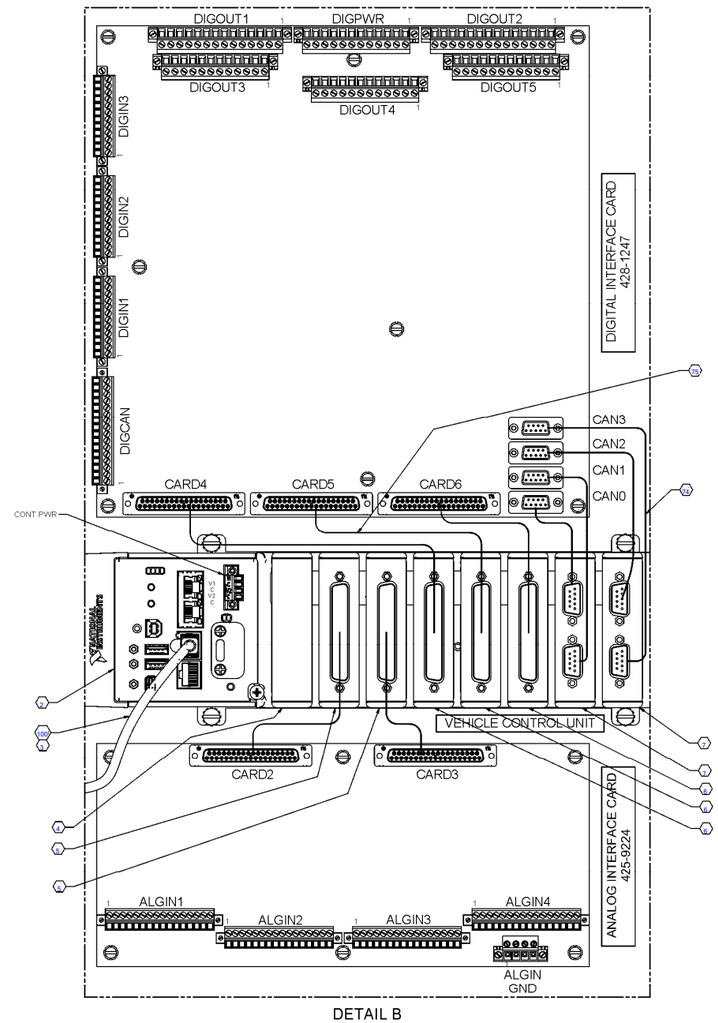
NOTE:
SEE TERMINAL BLOCK
TORQUE SPECIFICATIONS CHART
PRIOR TO INSTALLING WIRES
IN THE TERMINAL BLOCKS.

TORQUE SPECIFICATIONS CHART

ITEM NO.	LTI P/N	MIN TORQUE (lb-in)	MAX TORQUE (lb-in)	MIN TORQUE (Nm)	MAX TORQUE (Nm)
17	4264181	5.3	7.1	0.6	0.8
18	4264180	5.3	7.1	0.6	0.8
20	4264183	5.3	7.1	0.6	0.8
15	4264182	13.3	14.2	1.5	1.6
32	4259207	1.9	2.2	0.22	0.25
33	4259260	1.9	2.2	0.22	0.25
34	4259171	4.4	5.3	0.5	0.6
36	4220491	4.4	5.3	0.5	0.6
30	4220487	4.4	5.3	0.5	0.6



DETAIL A
1:1



DETAIL B
1:1

ASSY PANEL LOW VOLTAGE LINCS II
E DO NOT SCALE 4274387 05
DRAWN williams 12-02-11
SCALE 1/4 WT/WT - SHEET 3 OF 4

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LOW VOLTAGE PANEL ASSEMBLY, LINCS II

NOTE:
SEE TERMINAL BLOCK
TORQUE SPECIFICATIONS CHART
PRIOR TO INSTALLING WIRES
IN THE TERMINAL BLOCKS.

TERMINAL STRIP 1 (TS1) LAYOUT

TERMINAL BLOCK #	a SIDE WIRE CODE	FUSE CURRENT	FUSE COMPONENT	b SIDE WIRE CODE
1	0	10 AMP	FU01	EST1-10
2	0	10 AMP	FU02	0B
3	0	10 AMP	FU03	0C
4	0	25 AMP	FU04	0D
5	0	20 AMP	FU05	0E
6	0	10 AMP	FU06	0E1
7	0	25 AMP	FU07	0F
8	0	25 AMP	FU08	0F
9	0	10 AMP	FU09	0G
10	0	10 AMP	FU10	0H
11	0	10 AMP	FU11	SRC1-05
12	0	5 AMP	FU13	CSP1-09
13	0	10 AMP	FU14	0K
14	0	10 AMP	FU15	0L
15	0	15 AMP	FU16	0M
16	0	15 AMP	FU17	0N
17	0	25 AMP	FU18	0P
18	0	25 AMP	FU19	0R
19	0	15 AMP	FU20	0S
20	0	10 AMP	FU22	0Z
21	0	30 AMP	FU23	0V
22	0	30 AMP	FU24	0W
23	0	10 AMP	FU25	0X
24	0	10 AMP	FU26	0Y
25	0	25 AMP	FU27	03
26	12V1	15 AMP	FU102	12V2
27	0E1A	5 AMP	FU104	0E1B
28	0E1A	5 AMP	FU105	CAB1-05
29	0LA	5 AMP	FU109	0LB
30	0LA	5 AMP	FU110	0LC
31	0LA	5 AMP	FU111	RCL1-08
32	0VA	10 AMP	FU120	0VB
33	0VA	10 AMP	FU121	0VC
34	0VA	10 AMP	FU122	0VD
35	0VA	10 AMP	FU123	0VE
36	0VA	10 AMP	FU124	0VF
37	0VA	10 AMP	FU125	0VG
38	0VA	10 AMP	FU126	0VH
39	0VA	10 AMP	FU127	0VJ
40	0WA	10 AMP	FU128	0WB
41	0WA	10 AMP	FU129	0WC
42	0WA	10 AMP	FU130	0WD
43	0WA	10 AMP	FU131	0WE
44	0WA	10 AMP	FU132	0WF
45	0WA	10 AMP	FU133	EIC1-11
46	0TA	15 AMP	FU134	CAB4-01
47	0TA	15 AMP	FU135	CAB4-03
48	0TA	15 AMP	FU136	CAB4-05
49	0	10 AMP	FU28	01
50	0F4	5 AMP	FU137	EIC1-04
51	0F2A	10 AMP	FU138	SRC1-06
52	0FA	5 AMP	FU139	DCP1-02

TERMINAL STRIP 2 (TS2) LAYOUT

LEVEL 1 TERMINAL BLOCK #		LEVEL 1 WIRE CODE	LEVEL 2 TERMINAL BLOCK #	LEVEL 2 WIRE CODE
101	D	DO3	201	3B
102	D	DI7	202	3B
103	D	RFF5-06	203	RFF1-01
104	D	GND	204	RFF1-01
105	D	GND	205	0VF
106			206	0VF
107		EST1-05	207	13
108		EST1-08	208	13
109		EST1-06	209	0X
110		EST1-11	210	0X
111		0JA	211	0JB
112		0JA	212	0JB
113		12V2	213	0NA
114		12V2	214	0NA
115		12V2	215	0PA
116		12V2	216	0PA
117		0KA	217	0RA
118		0KA	218	0RA
119		0LB	219	0RA
120		0LB	220	0RA
121		0LC	221	0SA
122		0LC	222	0SA
123		0MA	223	0VB
124		0MA	224	0VB
125		0VC	225	0VG
126		0VC	226	0VG
127		0VD	227	0VH
128		0VD	228	0VH
129		0VE	229	0VJ
130		0VE	230	0VJ
131		0WB	231	0WE
132		0WB	232	0WE
133		0WC	233	0WF
134		0WC	234	0WF
135		0WD	235	0EA
136		0WD	236	0EA
137		0FA	237	DI10
138		0FA	238	DI10
139		0FA	239	DO38
140		0FA	240	DO38
141		0FA	241	DO37
142		0FA	242	DO37
143		DO58	243	0D
144		DO58	244	0D
145		CAB2-11	245	
146			246	
147			247	
148			248	
149			249	
150			250	
151		GND	251	GND
152		GND	252	GND
153		GND	253	GND
154		GND	254	GND
155		GND	255	GND
156		GND	256	GND
157		GND	257	GND
158		GND	258	GND
159		GND	259	GND
160		GND	260	GND
161		GND	261	GND
162		GND	262	GND
163		GND	263	GND
164		GND	264	GND
165		GND	265	GND
166		GND	266	GND
167		GND	267	GND
168		GND	268	GND
169		GND	269	GND
170		GND	270	GND
171		GND	271	GND
172		GND	272	GND

D - INDICATES DIODE TERMINAL BLOCK (4264181)

WIRE CHART

GAUGE	WIRE CODE	SOURCE	TARGET
10 AWG	0	TS1:1.a	
10 AWG	0	TS1:7.a	
10 AWG	0	TS1:10.a	
10 AWG	0	TS1:15.a	
10 AWG	0	TS1:20.a	
10 AWG	0	CB21:1	
12 AWG	0	TS1:25.a	
14 AWG	0	TS1:49.a	
16 AWG	0	ALGN1:4	
16 AWG	GND	CONT_PWR:C	TS2:168.a
16 AWG	GND	DC_DC:12-	TS2:162.a
18 AWG	GND	DC_DC:1	TS2:161.a
12 AWG	GND	GND:2	CONV:2
12 AWG	GND	GND:3	TS2:170.a
12 AWG	GND	GND:4	TS2:165.a
12 AWG	GND	GND:5	TS2:155.a
12 AWG	GND	GND:6	TS2:160.a
12 AWG	03	TS1:25.b	CONV:1
12 AWG	12V1	TS1:26.a	CONV:4
12 AWG	12V2	TS1:26.b	TS2:113.a
14 AWG	0D	TS1:4.b	TS2:243.a
14 AWG	0LB	TS1:29.b	TS2:119.a
14 AWG	0LC	TS1:30.b	TS2:121.a
14 AWG	0WB	TS1:40.b	TS2:131.a
14 AWG	0WC	TS1:41.b	TS2:133.a
14 AWG	0WD	TS1:42.b	TS2:135.a
14 AWG	0WE	TS1:43.b	TS2:231.a
14 AWG	0WF	TS1:44.b	TS2:233.a
14 AWG	0VB	TS1:32.b	TS2:223.a
14 AWG	0VC	TS1:33.b	TS2:125.a
14 AWG	0VD	TS1:34.b	TS2:127.a
14 AWG	0VE	TS1:35.b	TS2:129.a
14 AWG	0VF	TS1:36.b	TS2:206.a
14 AWG	0VG	TS1:37.b	TS2:225.a
14 AWG	0VJ	TS1:39.b	TS2:229.a
14 AWG	0X	TS1:23.b	TS2:209.a
16 AWG	0G	TS1:9.b	DIGPWR:6
16 AWG	0H	TS1:10.b	CRTD:6
18 AWG	0E1B	TS1:27.b	DC_DC:5
14 AWG	0VH	TS2:227.a	TS1:38.b
16 AWG	GND	TS2:154.a	ALGGND:1
16 AWG	GND	TS2:156.a	ALGGND:2
16 AWG	GND	TS2:151.a	DIGPWR:3
16 AWG	GND	TS2:152.a	DIGPWR:4
16 AWG	GND	TS2:153.a	DIGPWR:5
16 AWG	GND	TS2:157.a	CRTD:2
16 AWG	GND	TS2:159.a	TS2:105.a
16 AWG	DI10	TS2:237.a	DIGIN1:10
16 AWG	DO37	TS2:241.a	DIGOUT4:12
16 AWG	DO38	TS2:239.a	DIGOUT4:11
16 AWG	DO58	TS2:143.a	DIGOUT5:3
16 AWG	0FA	TS2:137.b	DIGPWR:8
16 AWG	0FA	TS2:138.b	DIGPWR:9
16 AWG	0FA	TS2:139.b	DIGPWR:10
16 AWG	0FA	TS2:140.b	DIGPWR:11
16 AWG	0FA	TS2:141.b	DIGPWR:12
16 AWG	0FA	TS2:142.b	TS1:52.a
16 AWG	RFF1-01	TS2:204.a	CRTD:8
16 AWG	DI7	TS2:102.b	DIGIN1:7
16 AWG	DO3	TS2:101.a	DIGOUT1:10
16 AWG	RFF5-06	TS2:103.b	DIGIN3:7

LEGEND

CAB1:01
CONNECTOR
PIN #

DIGIN1:1
INTERFACE CARD
DIG: DIGITAL INTERFACE (426-1247)
ALG: ANALOG INTERFACE (425-9224)
ESD: ESTOP INTERFACE (425-9226)
CONNECTION TYPE
IN: INPUT
OUT: OUTPUT
CAN: CONTROLLER AREA NETWORK
PWR: POWER
GND: GROUND
CONECTOR #
PIN #

TS3:205:a
TEMINAL STRIP
TS1: TERMINAL STRIP 1 (FUSE)
TS2: TERMINAL STRIP 2 (DISTRIBUTION)
TS3: TERMINAL STRIP 3 (RELAY PANEL)
TERMINAL BLOCK #
1's & 10's: SINGLE LEVEL TERMINAL
100's: LEVEL 1 TERMINAL
200's: LEVEL 2 TERMINAL
SIDE
CONNECTION

NC: NO CONNECTION

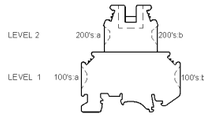
CONV: CONVERTER 24V TO 12V (427-0219)

CONTPWR: MACHINE CONTROLLER POWER (426-8633)

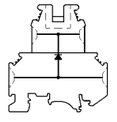
[: TERMINAL BRIDGE

—: SEPERATING PLATE

———: SPACER COVER



TERMINAL BLOCK LAYOUT



426-4181 (DIODE)

ASSY PANEL LOW VOLTAGE LINCSII
DRAWN Williams 12-02-11
SIZE E | DO NOT SCALE | DWG NO. 4274387 | REV 05
SCALE 1/4 | WT/WT - | SHEET 4 OF 4

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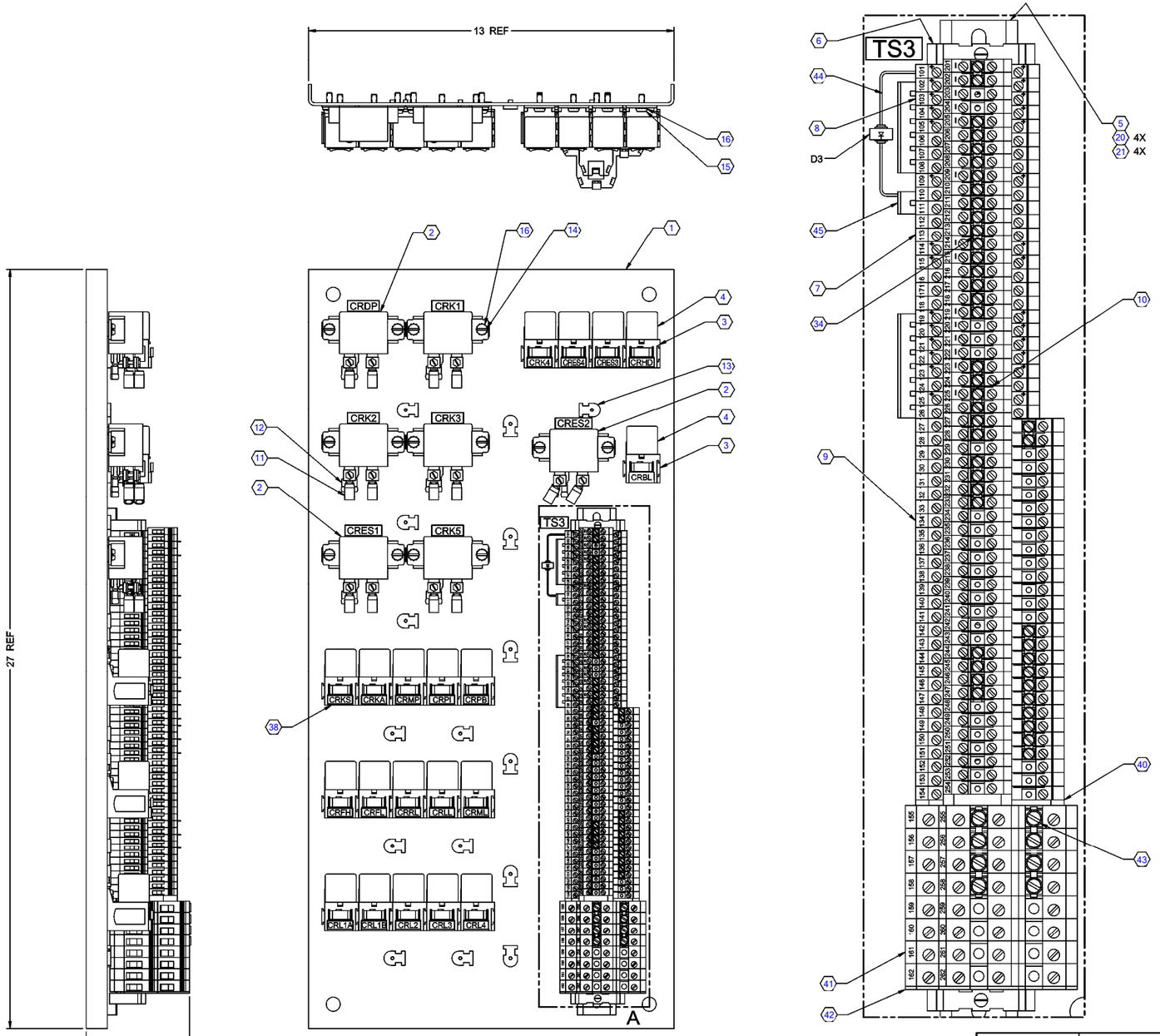
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4274387			LOW VOLTAGE PANEL ASSEMBLY, LINCS II		4/19/17
1	R4260944	1		· PANEL, LOW VOLTAGE - LINCS II		
2	R4288956	1		· CRIO ASSEMBLY, PROGRAMMED		4/19/17
3	R4288955	1		· CABLE ASSEMBLY, 1M		4/19/17
4	R4260947	1		· VCU BLANK MODULE		
5	R4258750	2		· VCU ANALOG INPUT MODULE		
6	R4258751	3		· VCU 32CH TTL I/O MODULE		
7	R4258752	2		· VCU 2 PORT CAN MODULE		
8	R4281247	1		· CARD ASSEMBLY, DIGITAL INTERFACE		6/26/13
9	R4259224	1		· CARD ASSEMBLY, ANALOG INTERFACE		
10	R4274535	1		· RELAY, TIME DELAY - .5 SECONDS		
11	R4270219	1		· CONVERTER, 24V TO 12V - 30A		
12	R4253985	2		· POWER DISTRIBUTION BLOCK, COPPER 310A		
13	R4265740	2		· RAIL MOUNTING, 20" DIN		
14	R4265756	6		· BRACKET END		
15	R4264182	52		· TERMINAL BLOCK, FUSE		
16	R4247479	1		· SPACER PLATE, GRAY		
17	R4264181	5		· TERMINAL BLOCK, DIODE		
18	R4264180	45		· TERMINAL BLOCK, GRAY		
19	R4264184	1		· TERMINAL BLOCK, COVER		
20	R4264183	22		· TERMINAL BLOCK, GROUND		
21	R4264185	46		· BRIDGE, FIXED		
22	R4228656	47		· PLATE, SEPARATING - TS-KK3 DIN		
23	N.P.N.			· NOT USED		
24	R4265742	8		· FUSE, 5A 32V - BLADE TYPE TAN		
25	R4265743	28		· FUSE, 10A 32V - BLADE TYPE RED		
26	R4265744	7		· FUSE, 15A 32V - BLADE TYPE LIGHT BLUE		
27	R4265745	1		· FUSE, 20A 32V - BLADE TYPE YELLOW		
28	R4265746	6		· FUSE, 25A 32V - BLADE TYPE CLEAR		
29	R4265747	2		· FUSE, 30A 32V - BLADE TYPE GREEN		
30	R4220487	1		· TERMINAL PLUG, 4 POS		
31	N.P.N.			· NOT USED		
32	R4259207	5		· TERMINAL PLUG, 16 POS		
33	R4259260	3		· TERMINAL PLUG, 12 POS		
34	R4259171	2		· TERMINAL PLUG, 14 POS		
35	N.P.N.			· NOT USED		
36	R4220491	4		· TERMINAL PLUG, 12 POS		
37	R4078040	39		· CABLE TIE MOUNT, ADHESIVE		
38	R4012067	39		· SCREW, #6-32 X 3/8" - F.H.		
39	R4266266	78		· BRIDGE, FIXED		
40	R0260712	14		· SCREW, #6-32 X 7/16" - P.H.		
41	R4010914	14		· LOCKWASHER, #6 - EXTERNAL, TOOTH		
42	R4270211	14		· STANDOFF		
43	R4010283	16		· SCREW, #10-32 X 1/2" - P.H.		4/19/17
44	R0182634	16		· LOCKWASHER, #10 - EXTERNAL, TOOTH		4/19/17
45	R0222286	4		· SCREW, 1/4"-20 X 5/8" - P.H.		
46	R0506807	4		· LOCKWASHER, 1/4" - EXTERNAL, TOOTH		
47	N.P.N.			· NOT USED		
48	N.P.N.			· NOT USED		4/19/17
49	R4274403	1		· CODE SHEET, LVCC PANEL LINCS II		
50	R4240040	1		· PLUG		
51	R4240042	1		· WEDGE		
52	R4153881	3		· CONTACT, #12 SOCKET		
53	N.P.N.			· NOT USED		
54	N.P.N.			· NOT USED		
55	R4228710	1		· MARKER, DIN - TERMINAL BLOCK, #101-110		
56	R4228711	1		· MARKER, DIN - TERMINAL BLOCK, #111-120		
57	R4228712	1		· MARKER, DIN - TERMINAL BLOCK, #121-130		

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
58	R4228713	1		· MARKER, DIN - TERMINAL BLOCK, #131-140		
59	R4228714	2		· MARKER, DIN - TERMINAL BLOCK, #141-150		
60	R4228715	4		· MARKER, DIN - TERMINAL BLOCK, #151-160		
61	R4228716	2		· MARKER, DIN - TERMINAL BLOCK, #161-170		
62	R4228717	2		· MARKER, DIN - TERMINAL BLOCK, #171-180		
63	R4228720	1		· MARKER, DIN - TERMINAL BLOCK, #201-210		
64	R4228721	1		· MARKER, DIN - TERMINAL BLOCK, #211-220		
65	R4228722	1		· MARKER, DIN - TERMINAL BLOCK, #221-230		
66	R4228723	1		· MARKER, DIN - TERMINAL BLOCK, #231-240		
67	R4228724	2		· MARKER, DIN - TERMINAL BLOCK, #241-250		
68	R4228725	4		· MARKER, DIN - TERMINAL BLOCK, #251-260		
69	R4228726	2		· MARKER, DIN - TERMINAL BLOCK, #261-270		
70	R4228727	2		· MARKER, DIN - TERMINAL BLOCK, #271-280		
71	R4260953	4		· CABLE ASSEMBLY, DB9 M-F LINCS II		
72	R4260954	5		· CABLE ASSEMBLY, DB37 M-F LINCS II		
73	R4120401	100	FT	· CABLE, #16 AWG - 600V		
74	R4111903	42	FT	· CABLE, #12 AWG 2000V		
75	R4079832	12	FT	· CABLE, #14 AWG- 600V		
76	R4111904	20	FT	· CABLE, #10 AWG 2000V		
77	R4268336	1		· CONNECTOR KIT, INPUT		
78	R4268335	1		· DC/DC CONVERTER ASSEMBLY, 24V TO 12V		
79	R0182893	6		· SCREW, #8-32 X 1/2"		
80	R4111900	30	FT	· CABLE, #18 AWG - 600V		4/19/17
81	R4019418	2		· TERMINAL, WIRE - #16-14, #10 HOLE		
82	R4274419	1		· TERMINAL MARKERS, LOW VOLTAGE		
83	R4270204	2		· FERRULE, INSULATED - 18AWG .315LG RED		
84	R4270207	17		· FERRULE, 12 AWG - GRAY		
85	R4270206	35		· FERRULE, INSULATED - BLUE		
86	R4270205	51		· FERRULE, INSULATED - 16AWG .315LG BLACK		
87	R4270208	10		· FERRULE, 10 AWG - YELLOW		
88	R4274330	3		· DUCT, WIRING - 2" X 3" X 21"		
89	R4274333	19		· DUCT, CORNER STRIP		
90	R4274327	5		· DUCT, WIRING - 1-1/2" X 3" X 11-5/8"		
91	R4274331	1		· DUCT, WIRING - 1-1/2" X 3" X 26-1/4"		
92	R4274332	1		· DUCT, WIRING - 2" X 3" X 23-3/4"		
93	R4274334	5		· COVER, WIRING DUCT - 1-1/2" X 11-5/8"		
94	R4274338	3		· COVER, WIRING DUCT - 2" X 21-1/8"		
95	R4274337	1		· COVER, WIRING DUCT - 2" X 23-3/4"		
96	R4274336	1		· COVER, WIRING DUCT - 1-1/2" X 26-1/4"		
97	R4274370	1		· LABELS		
98	R4265748	2		· BRIDGE, INSERTION		
99	R4277163	1		· CIRCUIT BREAKER, 40A		
100	R4282842	1		· CABLE ASSEMBLY DB9 DATA 72 LG		4/19/17
		REF		DRAWING, LOW VOLTAGE PANEL ASSEMBLY, LINCS II (R427438705)		4/19/17

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RELAY PANEL ASSEMBLY, LINCS II



DETAIL A
1:1

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	ENGR	PROD ENGR
	00	RELEASE	NL11-1843	12-06-11	LW	BAS	BS
	01	IT'S 3 & 4 QTY WERE 19; IT 15 QTY WAS 23; IT 16					
	01	QTY WAS 37; IT 33 QTY WAS 82; IT 34 QTY WAS					
	01	WAS 42; IT 36 QTY WAS 53 & IT 37 QTY WAS 46	NL12-2466	12-06-12	LW	BAS	BS
	02	NO CHANGE THIS SHEET	NL13-1261	2-5-13	JFM	BS	BS

TORQUE SPECIFICATIONS CHART					
ITEM NO.	LTI P/N	MIN TORQUE (lb in)	MAX TORQUE (lb in)	MIN TORQUE (Nm)	MAX TORQUE (Nm)
8	4247473	5.3	7.1	0.6	0.8
9	4264181	5.3	7.1	0.6	0.8
12	4264180	5.3	7.1	0.6	0.8
41	4274545	13.3	15.9	1.5	1.8

NOTE:
SEE TERMINAL BLOCK
TORQUE SPECIFICATIONS CHART
PRIOR TO INSTALLING WIRES
IN THE TERMINAL BLOCKS.

ITEM	PART NO.	QTY	DESCRIPTION
45	4265748	17	BRIDGE INSERTION PHOENIX 02 01 13 9
44	4135968	1	DIODE 6A 1000V
43	4251788	8	FIXED BRIDGE DIN FBI 10-10
42	4274546	1	TERM BLK COVER PHOENIX 3001394
41	4274545	8	TERM BLK GRAY PHOENIX 2772077
40	4274547	1	END COVER GRAY PHOENIX 2770859
39	4274370	1	LABELS FOR BRADY ID PAL LABELER
38	4270208	14	FERRULE INS 10AWG .472LG YELLOW
37	4270206	48	FERRULE INS 14AWG .315LG BLUE
36	4270205	55	FERRULE INS 16AWG .315LG BLK
35	4274401	1	TERMINAL MARKERS RELAY
34	4266266	43	BRIDGE FIXED PHOENIX FB10-6
33	4260955	86	FASTON CONNECTOR WITH TANG
32	4232459	28	CABLE #10 AWG 1C EXN DLO 2000V
31	4079832	61 FT	CABLE #14 AWG 1C EXANE DLO 600 VAC
30	4120401	104 FT	CABLE #16 AWG EXANE DLO 600 VAC
29	4228725	1	MARKER DIN TERM BLOCK#251-260
28	4228724	1	MARKER DIN TERM BLOCK#241-250
27	4228723	1	MARKER DIN TERM BLOCK#231-240
26	4228722	1	MARKER DIN TERM BLOCK#221-230
25	4228721	1	MARKER DIN TERM BLOCK#211-220
24	4228720	1	MARKER DIN TERM BLOCK#201-210
23	4228715	1	MARKER DIN TERM BLOCK#151-160
22	4228714	1	MARKER DIN TERM BLOCK#141-150
21	4228713	1	MARKER DIN TERM BLOCK#131-140
20	4228712	1	MARKER DIN TERM BLOCK#121-130
19	4228711	1	MARKER DIN TERM BLK #111-120
18	4228710	1	MARKER DIN TERM BLOCK#101-110
17	4274402	1	CODE SHEET RELAY PANEL LINCS 2
16	0182634	38	WASHER LOCK EXT .195 .41 .03
15	4010283	24	MSCR PH #10 .500 NF
14	4012632	14	MSCR PH #10-32 UNF X 5/8 LG
13	4252936	16	CABLE TIE MOUNT BASE
12	4112578	14	FASTON CONNECTOR #16-14 AWG 250 BLUE
11	4019434	14	WIRE TERM RT 12-10 #10 INS (YEL)
10	4228656	20	PLATE SEPARATING PHOENIX TS-KK3
9	4264180	28	TERM BLK GRAY PHOENIX 27 71 14 6
8	4264181	14	TERM BLK DIODE PHOENIX
7	4247473	12	TERMINAL BLOCK GRAY PHOENIX 27 74 01 7
6	4265756	2	BRACKET END PHOENIX 08 00 88 6
5	4274548	1	RAIL MOUNTING 18.00 LG DIN
4	4260950	20	RELAY 20 A
3	4260949	20	BRACKET MOUNT RELAY SOCKET
2	4119992	7	RELAY 50A 24VDC +/-10 OHMS
1	4265197	1	PANEL RELAY LINCS II

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° | FRACTIONS ±1/16 | .XX DECIMAL ±.03 | .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO 427-4479

		DATE
DWN	lwilliams	12-06-11
CHK	BAS	12-09-11
ENGR	BS	12-09-11
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY PANEL LINCS 2 RELAY

SIZE D | SCALE 1:4 | EST WT 22.9 lbm | DWG NO. 4274400 | REV 02 | SHEET 1 OF 2

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RELAY PANEL ASSEMBLY, LINCS II

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RELAY PANEL ASSEMBLY, LINCS II

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	APP
	00	RELEASE	NL11-1843	12-06-11	LW	BAS	BS
	01	UPDATED TERM STRIP 3 LAYOUT & WIRE CHART	NL12-2466	12-06-12	LW	BAS	BS
B8	02	SWAPPED PLCS WITH MBR2-09 & 01 AT TERM STRIP 3	NL13-1261	2-5-13	JFM	BS	BS

TERMINAL STRIP 3 (TS3) LAYOUT

LEVEL 1 TERMINAL BLOCK #		LEVEL 1 WIRE CODE	LEVEL 2 TERMINAL BLOCK #	LEVEL 2 WIRE CODE
101	D	0BB1	201	0BC
102	D	GND	202	0BC
103	D	GND	203	0BA
104	D	GND	204	3B
105	D	GND	205	0BD
106		GND	206	0BD
107		GND	207	0BD
108		GND	208	0BD
109	D	DO24	209	0BD
110		0BA	210	0BD
111		0BA	211	0B
112		0Y	212	0B
113		SRC1-03	213	0B
114	D	DO2	214	0B
115	D	DO23	215	0B
116			216	DI8
117		0C	217	DI8
118		0F2A	218	13B
119	D	GND	219	13B
120	D	GND	220	13
121	D	GND	221	LLC1-02
122	D	GND	222	CSP1-07
123	D	GND	223	EST1-02
124		GND	224	EST1-02
125	D	GND	225	EST1-12
126		GND	226	EST1-12
127		0F2	227	0F3
128		0F2	228	0F3
129		0E1A	229	0E1
130		CAB3-10	230	0Z
131		CAB3-01	231	0Z
132			232	0ZA
133		CAB3-11	233	0ZA
134		CAB3-12	234	CAB3-02
135		0KA	235	0K
136		0LA	236	0L
137		0MA	237	0M
138		0NA	238	0N
139		0PA	239	0P
140		0RA	240	0R
141		0SA	241	0S
142		GND	242	DO8
143		GND	243	DO7
144		GND	244	DO5
145		GND	245	DO5
146		GND	246	DO4
147		GND	247	DO4
148		GND	248	DO19
149		GND	249	DO18
150		GND	250	DO17
151		GND	251	DO35
152		MBR2-09	252	01
153			253	
154			254	
155		0F	255	0F4
156		0F	256	0F4
157		0F1	257	0FA
158		0F1	258	0FA
159		0V	259	0VA
160		0T	260	0TA
161		0W	261	0WA
162		0E	262	0EA

D - INDICATES DIODE TERMINAL BLOCK (4264181)

WIRE CHART			
GAUGE	WIRE CODE	SOURCE	TARGET
14 AWG	01	CRBL:30	TS3:252:a
14 AWG	MBR2-09	CRBL:87	TS3:152:a
16 AWG	DO35	CRBL:85	TS3:251:a
16 AWG	GND	CRBL:86	TS3:151:a
10 AWG	0F1	CRDP:30	TS3:158:a
10 AWG	0FA	CRDP:87	TS3:257:a
16 AWG	0B	CRDP:85	TS3:215:a
16 AWG	DO23	CRDP:86	TS3:115:a
10 AWG	0F	CRES1:30	TS3:155:a
10 AWG	0F4	CRES1:87	TS3:255:a
16 AWG	EST1-02	CRES1:85	TS3:223:a
16 AWG	GND	CRES1:86	TS3:123:a
10 AWG	0F4	CRES2:30	TS3:256:a
10 AWG	0F1	CRES2:87	TS3:157:a
16 AWG	EST1-12	CRES2:85	TS3:225:a
16 AWG	GND	CRES2:86	TS3:125:a
14 AWG	0F	CRES3:30	TS3:156:a
14 AWG	0F2	CRES3:87	TS3:127:a
14 AWG	0F3	CRES3:87A	TS3:227:a
16 AWG	EST1-02	CRES3:85	TS3:224:a
16 AWG	GND	CRES3:86	TS3:124:a
14 AWG	0F2	CRES4:30	TS3:128:a
14 AWG	0F2A	CRES4:87	TS3:118:a
14 AWG	0F3	CRES4:87A	TS3:228:a
16 AWG	EST1-12	CRES4:85	TS3:226:a
16 AWG	GND	CRES4:86	TS3:126:a
14 AWG	0Z	CRFH:30	TS3:230:a
14 AWG	CAB3-10	CRFH:87	TS3:130:a
14 AWG	0ZA	CRFH:87A	TS3:232:a
16 AWG	DO17	CRFH:85	TS3:250:a
16 AWG	GND	CRFH:86	TS3:150:a
14 AWG	0ZA	CRFL:30	TS3:233:a
14 AWG	CAB3-11	CRFL:87	TS3:133:a
14 AWG	CAB3-12	CRFL:87A	TS3:134:a
16 AWG	DO18	CRFL:85	TS3:249:a
16 AWG	GND	CRFL:86	TS3:149:a
14 AWG	0E1	CRHD:30	TS3:229:a
14 AWG	0E1A	CRHD:87	TS3:129:a
16 AWG	0BA	CRHD:85	TS3:203:a
16 AWG	GND	CRHD:86	TS3:103:a
10 AWG	0E	CRK1:30	TS3:162:a
10 AWG	0EA	CRK1:87	TS3:262:a
16 AWG	0BD	CRK1:85	TS3:205:a
16 AWG	GND	CRK1:86	TS3:105:a
10 AWG	0V	CRK2:30	TS3:159:a
10 AWG	0VA	CRK2:87	TS3:259:a
16 AWG	0BD	CRK2:85	TS3:206:a
16 AWG	GND	CRK2:86	TS3:106:a
10 AWG	0W	CRK3:30	TS3:161:a
10 AWG	0WA	CRK3:87	TS3:261:a
16 AWG	0BD	CRK3:85	TS3:207:a
16 AWG	GND	CRK3:86	TS3:107:a
14 AWG	0Y	CRK4:87	TS3:112:a
14 AWG	SRC1-03	CRK4:30	TS3:113:a
14 AWG	GND	CRK4:87A	TS3:120:a
16 AWG	0BD	CRK4:85	TS3:209:a
16 AWG	DO24	CRK4:86	TS3:109:a
10 AWG	0T	CRK5:30	TS3:160:a
10 AWG	0TA	CRK5:87	TS3:260:a
16 AWG	0BD	CRK5:85	TS3:208:a

WIRE CHART			
GAUGE	WIRE CODE	SOURCE	TARGET
16 AWG	GND	CRK5:86	TS3:108:a
14 AWG	0B	CRKA:30	TS3:211:a
14 AWG	0BA	CRKA:87	TS3:111:a
16 AWG	0B	CRKA:85	TS3:214:a
16 AWG	DO2	CRKA:86	TS3:114:a
14 AWG	0B	CRKS:30	TS3:212:a
14 AWG	0BB1	CRKS:87	TS3:101:a
16 AWG	3B	CRKS:85	TS3:204:a
16 AWG	GND	CRKS:86	TS3:104:a
14 AWG	0M	CRL1A:30	TS3:237:a
14 AWG	0MA	CRL1A:87	TS3:137:a
16 AWG	DO4	CRL1A:85	TS3:246:a
16 AWG	GND	CRL1A:86	TS3:146:a
14 AWG	0NA	CRL1B:87	TS3:138:a
14 AWG	0N	CRL1B:30	TS3:238:a
16 AWG	DO4	CRL1B:85	TS3:247:a
16 AWG	GND	CRL1B:86	TS3:147:a
14 AWG	0P	CRL2:30	TS3:239:a
14 AWG	0PA	CRL2:87	TS3:139:a
16 AWG	DO5	CRL2:85	TS3:244:a
16 AWG	GND	CRL2:86	TS3:144:a
14 AWG	0R	CRL3:30	TS3:240:a
14 AWG	0RA	CRL3:87	TS3:140:a
16 AWG	DO5	CRL3:85	TS3:245:a
16 AWG	GND	CRL3:86	TS3:145:a
14 AWG	0S	CRL4:30	TS3:241:a
14 AWG	0SA	CRL4:87	TS3:141:a
16 AWG	DO7	CRL4:85	TS3:243:a
16 AWG	GND	CRL4:86	TS3:143:a
14 AWG	0K	CRLL:30	TS3:235:a
14 AWG	0KA	CRLL:87	TS3:135:a
16 AWG	LLC1-02	CRLL:85	TS3:221:a
16 AWG	GND	CRLL:86	TS3:121:a
14 AWG	0L	CRML:30	TS3:236:a
14 AWG	0LA	CRML:87	TS3:136:a
16 AWG	CSP1-07	CRML:85	TS3:222:a
16 AWG	GND	CRML:86	TS3:122:a
14 AWG	0B	CRMP:30	TS3:213:a
14 AWG	0BD	CRMP:87	TS3:210:a
16 AWG	0BC	CRMP:85	TS3:202:a
16 AWG	GND	CRMP:86	TS3:102:a
14 AWG	0C	CRPB:30	TS3:117:a
14 AWG	13	CRPB:87	TS3:220:a
16 AWG	13B	CRPB:85	TS3:219:a
16 AWG	GND	CRPB:86	TS3:119:a
14 AWG	DI8	CRPt:30	TS3:216:a
14 AWG	13B	CRPt:87	TS3:218:a
16 AWG	DO8	CRPt:85	TS3:242:a
16 AWG	GND	CRPt:86	TS3:142:a
14 AWG	0Z	CRRL:30	TS3:231:a
14 AWG	CAB3-01	CRRL:87	TS3:131:a
14 AWG	CAB3-02	CRRL:87A	TS3:234:a
16 AWG	DO19	CRRL:85	TS3:248:a
16 AWG	GND	CRRL:86	TS3:148:a
	0BA	TS3:110:a	D3:-
	0BB1	TS3:101:a	D3:+
14 AWG	GND	TS3:108:b	TS3:119:b
14 AWG	GND	TS3:107:b	TS3:126:b
16 AWG	0BA	TS3:111:b	TS3:203:b

LEGEND

205:a

TERMINAL BLOCK #
1's & 10's: SINGLE LEVEL TERMINAL
100's: LEVEL 1 TERMINAL
200's: LEVEL 2 TERMINAL

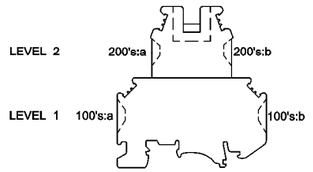
CONNECTION SIDE

NC: NO CONNECTION

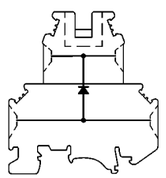
[: TERMINAL BRIDGE

—: SEPERATING PLATE

———: SPACER COVER

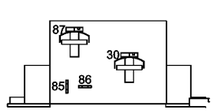


TERMINAL BLOCK LAYOUT

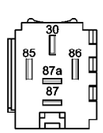


426-4181 (DIODE)

NOTE:
SEE TERMINAL BLOCK
TORQUE SPECIFICATIONS CHART
PRIOR TO INSTALLING WIRES
IN THE TERMINAL BLOCKS.



411-9992 (50A)



426-0950 (20A)

ASSY PANEL LINCS 2 RELAY		SIZE D	SCE	DWG NO. 4274400	REV 02
DRAWN lwilliams					
ISSUED 12-06-11	SCALE	EST WT 22.9 lbm		SHEET 2 OF 2	

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RELAY PANEL ASSEMBLY, LINCS II

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4274400			RELAY PANEL ASSEMBLY, LINCS II		5/17/13
1	R4265197	1		· PANEL, RELAY - LINCS II		
2	R4119992	7		· RELAY, 50A 24VDC		
3	R4260949	20		· BRACKET MOUNT SOCKET, RELAY		
4	R4260950	20		· RELAY, 20A		
5	R4274548	1		· RAIL MOUNTING, 18" DIN		
6	R4265756	2		· BRACKET END		
7	R4247473	12		· TERMINAL BLOCK, GRAY		
8	R4264181	14		· TERMINAL BLOCK, DIODE		
9	R4264180	28		· TERMINAL BLOCK, GRAY		
10	R4228656	20		· PLATE, SEPARATING - TS-KK3 DIN		
11	R4019434	14		· TERMINAL, WIRE - 12/10 AWG		
12	R4112578	14		· LUG, SPADE - 1/4", FEMALE		
13	R4252936	16		· MOUNT BASE, CABLE TIE		
14	R4012632	14		· SCREW, #10-32 X 5/8" - P.H.		
15	R4010283	24		· SCREW, #10-32 X 1/2" - P.H.		
16	R0182634	38		· LOCKWASHER, #10 - EXTERNAL, TOOTH		
17	R4274402	1		· CODE SHEET, RELAY PANEL - LINCS II		
18	R4228710	1		· MARKER, DIN - TERMINAL BLOCK, #101-110		
19	R4228711	1		· MARKER, DIN - TERMINAL BLOCK, #111-120		
20	R4228712	1		· MARKER, DIN - TERMINAL BLOCK, #121-130		
21	R4228713	1		· MARKER, DIN - TERMINAL BLOCK, #131-140		
22	R4228714	1		· MARKER, DIN - TERMINAL BLOCK, #141-150		
23	R4228715	1		· MARKER, DIN - TERMINAL BLOCK, #151-160		
24	R4228720	1		· MARKER, DIN - TERMINAL BLOCK, #201-210		
25	R4228721	1		· MARKER, DIN - TERMINAL BLOCK, #211-220		
26	R4228722	1		· MARKER, DIN - TERMINAL BLOCK, #221-230		
27	R4228723	1		· MARKER, DIN - TERMINAL BLOCK, #231-240		
28	R4228724	1		· MARKER, DIN - TERMINAL BLOCK, #241-250		
29	R4228725	1		· MARKER, DIN - TERMINAL BLOCK, #251-260		
30	R4120401	104	FT	· CABLE, #16 AWG - 600V		
31	R4079832	61	FT	· CABLE, #14 AWG- 600V		
32	R4232459	28	FT	· CABLE, #10 AWG 2000V		
33	R4260955	86		· LUG, SPADE - 14-16 AWG, MALE		
34	R4266266	43		· BRIDGE, FIXED		
35	R4274401	1		· TERMINAL MARKERS, RELAY		
36	R4270205	55		· FERRULE, INSULATED - 16AWG .315LG BLACK		
37	R4270206	48		· FERRULE, INSULATED - BLUE		
38	R4270208	14		· FERRULE, 10 AWG - YELLOW		
39	R4274370	1		· LABELS, BRADY		
40	R4274547	1		· END COVER, GRAY		
41	R4274545	8		· TERMINAL BLOCK, GRAY		
42	R4274546	1		· TERMINAL BLOCK, COVER		
43	R4251788	8		· BRIDGE, FIXED		
44	R4135968	1		· DIODE ASSEMBLY, 6A-1000V		
45	R4265748	17		· BRIDGE, INSERTION		
		REF		DRAWING, RELAY PANEL ASSEMBLY, LINCS II (R427440002)		5/17/13

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

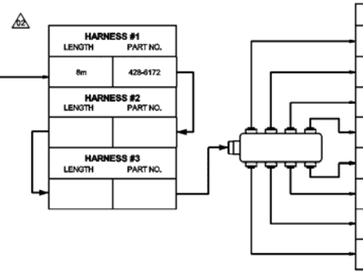
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FRONT FRAME HARNESS GROUP

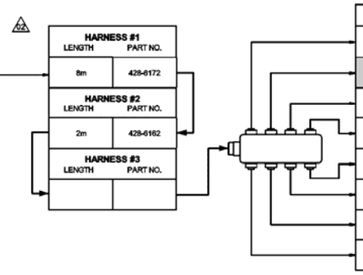
LOW VOLTAGE CONTROL CABINET

BOX: **FFR1**
DESCRIPTION: **FRONT FRAME #1**



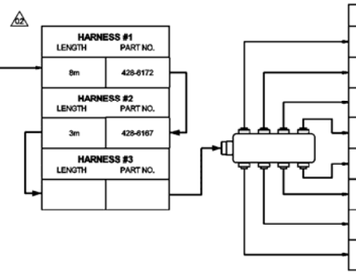
HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	DEVICE CABLES								
			HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		PINOUT
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	
FFR1-J7	FFR1-05								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
FFR1-J5	FFR1-03	AUTO LUBE SOL	1m	426-5230	1m DIN	426-5233					
FFR1-J3	FFR1-09	MAINTENANCE LIGHT LEFT FRONT	6m OPEN	426-5232					2 PIN DEUTSCH	426-1175	BLK = 2, GRN = 1
FFR1-J1	FFR1-07	AUTO LUBE SWITCHES	2m	426-5231							
FFR1-J2	FFR1-01								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
FFR1-J4	FFR1-02	FRONT SERVICE BRAKES XDCR	2m	426-5231	1.2m	426-4196	1m XDCR	426-5234			
FFR1-J6	FFR1-04	FRONT PARK BRAKES XDCR	2m	426-5231	1m	426-5230	1m XDCR	426-5234			
FFR1-J8	FFR1-06	FRONT PARK BRAKES SOL	6m OPEN	426-5232					2 PIN DEUTSCH	426-1175	BLK = 1, GRN = 2

BOX: **FFR2**
DESCRIPTION: **FRONT FRAME #2**



HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	DEVICE CABLES								
			HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		PINOUT
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	
FFR2-J7	FFR2-05	FRONT DRIVER LUBE FLOW SWITCHES	1m	426-5230	TEE	427-0079	6m OPEN 6m OPEN	426-5232 426-5232	2 PIN DEUTSCH 2 PIN DEUTSCH	426-1175 426-1175	BLK = 1, WHT = 2 BLK = 1, WHT = 2
FFR2-J5	FFR2-03	* CLAMSHELL CYL EXT XDCR (OPT)							CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
FFR2-J3	FFR2-09	BELLCRANK TO LIFT ARM XDCR	5m	426-6240	2m	426-5231	1m	429-2794			
FFR2-J1	FFR2-07	LIFT ARM POSITION XDCR	2m	426-5231	1m	429-2794					
FFR2-J2	FFR2-01	MAINTENANCE LIGHT RIGHT FRONT	6m OPEN	426-5232					2 PIN DEUTSCH	426-1175	BLK = 2, GRN = 1
FFR2-J4	FFR2-02								CAP - MALE TURCK (QTY - 1)	426-5200	
FFR2-J6	FFR2-04								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
FFR2-J8	FFR2-06								CAP - MALE TURCK (QTY - 1)	426-5200	

** BOX: **PCP1**
DESCRIPTION: **PILOT CONTROL PANEL #1**



HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	DEVICE CABLES								
			HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		PINOUT
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	
PCP1-J7	PCP1-05								CAP - MALE TURCK (PART OF HYD PANEL ASSY)	** 426-5200	
PCP1-J5	PCP1-03								CAP - MALE TURCK (PART OF HYD PANEL ASSY)	** 426-5200	
PCP1-J3	PCP1-09	** BUCKET DUMP PILOT SOL	1m DIN	426-5233							
PCP1-J1	PCP1-07	** BUCKET ROLLBACK PILOT SOL	1m DIN	426-5233							
PCP1-J2	PCP1-01	** HOIST LOWER PILOT SOL	1m DIN	426-5233							
PCP1-J4	PCP1-02	** HOIST RAISE PILOT SOL	1m DIN	426-5233							
PCP1-J6	PCP1-04	BUCKET CYL ROD XDCR	1m XCDR	426-5234					CAP - MALE TURCK (PART OF HYD PANEL ASSY)	** 426-5200	
PCP1-J8	PCP1-06								CAP - MALE TURCK (PART OF HYD PANEL ASSY)	** 426-5200	

LABEL NOTES:
1. LABEL EACH CABLE WITH HARNESS CODE AT EACH END USING A LABEL THAT REPEATS AROUND THE CABLE AS SHOWN.
2. LABEL EACH CABLE WITH IT'S PART NUMBER NEAR EACH END USING A 'REPEATING TEXT' LABEL AS SHOWN.
3. COVER ALL LABELS WITH CLEAR HEAT SHRINK.



NOTES:
1) * INDICATES MACHINE OPTION — SHOWN FOR REFERENCE ONLY.
2) ** PART OF HYD PANEL ASSY 427-1092.

ITEM	PART NO.	QTY	DESCRIPTION
28	4274511	1	CABLE EXT 4 PIN 3M
27	4274509	1	CABLE EXT 4 PIN 1M
26	4274370	2	LABELS FOR BRADY ID PAL LABELER
25	4274371	.125	TAPE STRIPS
24	4170168	3	HEAT SHRINK CLEAR 2.000 2:1
23	4170167	5	HEAT SHRINK CLEAR 1.500 2:1
22	4170166	5	HEAT SHRINK CLEAR 1.000 2:1
21	4170165	5	HEAT SHRINK CLEAR .750 2:1
20	4170164	5	HEAT SHRINK CLEAR .500 2:1
19	4170163	5	HEAT SHRINK CLEAR .375 2:1
18	4265200	2	CAP 7/8 MALE TURCK
17	4265235	2	BREAKOUT BOX 12 PIN 8 X 3 PIN
16	4261175	5	DEUTSCH DT06-2S KIT
15	4270079	1	CABLE 3 PIN SERIES WIRED TEE 1M1M
14	4286172	4	CABLE EXT 12 PIN 8M
13	4289079	2	CABLE EXT 4 PIN 6M
12	4286160	1	CABLE EXT 12 PIN 1M
11	4286162	2	CABLE EXT 12 PIN 2M
10	4286161	1	CABLE EXT 12 PIN 1.5M
9	4286187	2	CABLE EXT 12 PIN 3M
8	4292794	2	CABLE 3 PIN M12X1 ENCODER 1M
7	4265234	5	CABLE 3 PIN MX12 4 PIN 1M
6	4265233	1	CABLE 3 PIN DIN 1M
5	4265232	5	CABLE EXT 3 PIN - OPEN 6M
4	4266240	1	CABLE EXT 3 PIN 5M
3	4265231	5	CABLE EXT 3 PIN 2M
2	4264196	2	CABLE EXT 3 PIN 1.2M
1	4265230	4	CABLE EXT 3 PIN 1M

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1000.06

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, .XX DECIMAL ±.03, .XXX DECIMAL ±.010
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: -

DWN	J.MARTIN	7-14-17
CHK	JS	7-14-17
ENGR	JS	7-14-17
PROD ENGR	JS	7-14-17
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HARNESS FF L1350 G3

SIZE E | DO NOT SCALE | DWG NO. 4289056 | REV 02

SCALE 1/1 | WT | SHEET 1 OF 2

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LOW VOLTAGE CONTROL CABINET

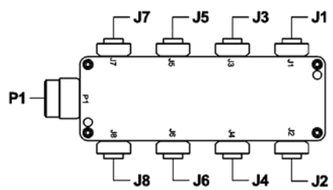
** BOX: **PCP2**
DESCRIPTION: **PILOT CONTROL PANEL #2**

HARNESS #1 LENGTH	HARNESS #1 PART NO.
6m	428-6172
HARNESS #2 LENGTH	**HARNESS #2** PART NO.
3m	428-6167
HARNESS #3 LENGTH	**HARNESS #3** PART NO.

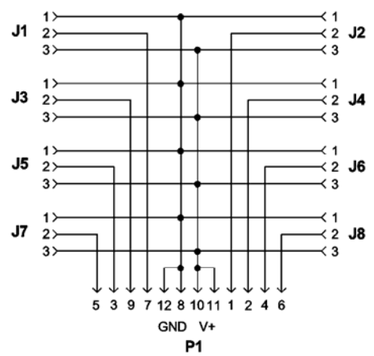
HARNESS CODE	SIGNAL PIN CODE	DEVICE CABLES: DEVICE DESCRIPTION	HARNESS #1 LENGTH / TYPE	HARNESS #1 PART NO.	HARNESS #2 LENGTH / TYPE	HARNESS #2 PART NO.	HARNESS #3 LENGTH / TYPE	HARNESS #3 PART NO.	CONNECTOR TYPE	CONNECTOR PART NO.	PINOUT
PCP2-J7	PCP2-05	HOIST CYL ROD XDCR	1m	426-5230	1m XDCR	426-5234			CAP - MALE TURCK (PART OF HYD PANEL ASSY)	** 426-5200	
PCP2-J5	PCP2-03	* CLAMSHELL CLOSE PILOT SOL (OPT)							CAP - MALE TURCK (PART OF HYD PANEL ASSY)	** 426-5200	
PCP2-J3	PCP2-09	HOIST CYL BASE XDCR	1.2m	426-4196	1m XDCR	426-5234					
PCP2-J1	PCP2-07	** GREATEST PILOT CMD XDCR	1m XDCR	426-5234							
PCP2-J2	PCP2-01	* CLAMSHELL OPEN PILOT SOL (OPT)							CAP - MALE TURCK (PART OF HYD PANEL ASSY)	** 426-5200	
PCP2-J4	PCP2-02	** PILOT SUPPLY XDCR	1m XDCR	426-5234							
PCP2-J6	PCP2-04	** DUMP PRESS REDUCING SOL	1m DN	426-5233							
PCP2-J8	PCP2-06	** FLOAT SOL	1m DN	426-5233							

CABLE	DESCRIPTION	HARNESS #1 LENGTH / TYPE	HARNESS #1 PART NO.	HARNESS #2 LENGTH / TYPE	HARNESS #2 PART NO.	HARNESS #3 LENGTH / TYPE	HARNESS #3 PART NO.	CONNECTOR TYPE	CONNECTOR PART NO.
FPL1	FRONT POLE LIGHT	6m	428-9079	1m	427-4509				
FPL2	FRONT POLE LIGHT	6m	428-9079	3m	427-4511				

BREAKOUT BOX 12 PIN - 8 X 3 PIN
(P/N: 426-5235)



TOP VIEW - BREAKOUT BOX



SCHEMATIC - BREAKOUT BOX

NOTES:
1) * INDICATES MACHINE OPTION — SHOWN FOR REFERENCE ONLY.
2) ** PART OF HYD PANEL ASSY 427-1092.

GP HARNESS FF L1350 G3 | J.MARTIN 7-14-17 | E | DO NOT SCALE | 4289056 | 02 | 1/1 | 8cm | 2 OF 2

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289056		FRONT FRAME HARNESS GROUP		8/30/19
1	R4265230	4	· CABLE EXTENSION, 3 PIN 1M		
2	R4264196	2	· CABLE EXTENSION, 3 PIN 1.2 MM		
3	R4265231	5	· CABLE EXTENSION, 3 PIN 2M		8/30/19
4	R4266240	1	· CABLE EXTENSION, 3 PIN 5M		
5	R4265232	5	· CABLE EXTENSION, 3 PIN - OPEN 6 M		
6	R4265233	1	· CABLE EXTENSION, 3 DIN 1M		
7	R4265234	5	· CABLE, 3 PIN - MX12 4 PIN, 1 M		
8	R4292794	2	· CABLE, 3 PIN - M12X1 ENCODER 1M		8/30/19
9	R4286167	1	· CABLE EXTENSION, 12 PIN 3M		8/30/19
10	R4286161	1	· CABLE EXTENSION, 12 PIN 1.5M		
11	R4286162	2	· CABLE EXTENSION, 12 PIN 2M		8/30/19
12	R4286160	1	· CABLE EXTENSION, 12 PIN 1M		
13	R4289079	2	· CABLE EXTENSION, 4 PIN 6M		8/30/19
14	R4286172	4	· CABLE EXTENSION, 12 PIN 8M		8/30/19
15	R4270079	1	· CABLE, 3 PIN 1M X 1M		
16	R4261175	5	· CONNECTOR KIT, DT06-2S KIT		
17	R4265235	2	· BREAKOUT BOX, 12 PIN - 8 X 3 PIN		
18	R4265200	2	· CAP, TURCK - 7/8" MALE		
19	R4170163	5	· HEAT SHRINK, CLEAR - 3/8"		
20	R4170164	5	· HEAT SHRINK, CLEAR - 1/2"		
21	R4170165	5	· HEAT SHRINK, CLEAR - 3/4"		
22	R4170166	5	· HEAT SHRINK, CLEAR - 1"		
23	R4170167	5	· HEAT SHRINK, CLEAR - 1-1/2"		
24	R4170168	3	· HEAT SHRINK, CLEAR - 2"		
25	R4274371	1	· TAPE STRIPS		
26	R4274370	2	· LABELS		
27	R4274509	1	· CABLE EXTENSION, 4 PIN 1M		8/30/19
28	R4274511	1	· CABLE EXTENSION, 4 PIN 3M		8/30/19
		REF	DRAWING, FRONT FRAME HARNESS GROUP (R428905602)		8/30/19

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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REAR FRAME HARNESS GROUP

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	06	DEL ITEM 12, ADDED ITEM 56, ITEM 4 QTY WAS 1.					
	06	ITEM 22 QTY WAS 4, ITEM 23 QTY WAS 1, ITEM 25 QTY WAS 2	1400952	2019-12-09	JP-M	BBD	JMS
F4	07	MOVED 4266241 TO HARN. #1 AT RFM1-J2.					
	07	ITEM 31 QTY WAS 2	1406846	2020-03-13	JFM	BBD	JMS

LOW VOLTAGE CONTROL CABINET

BOX: **RFM1**
DESCRIPTION: **REAR FRAME MID #1**

HARNESS #1 LENGTH	PART NO.
6m	428-6170

HARNESS #2 LENGTH	PART NO.
1m	428-6160

HARNESS #3 LENGTH	PART NO.

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	DEVICE CABLES								PINOUT
			HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	
RFM1-J7	RFM1-05	AUTO LUBE GREASE XDCR	3m	426-5213	1m XDCR	426-5234					
RFM1-J5	RFM1-03								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFM1-J3	RFM1-09	MAINTENANCE LIGHT MIDDLE LEFT	6m OPEN	426-5232					2 PIN DEUTSCH	426-1175	BLK = 2, GRN = 1
RFM1-J1	RFM1-07	RADIATOR FAN SPEED SENSOR	5 PIN SPD SNSR 9 FT (2.75m)	426-6267	ENG FAN SPD SNSR 6m	426-0477					
RFM1-J2	RFM1-01	ENGINE SAFETY FILTER RESTRICTION	10m	426-6241							
RFM1-J4	RFM1-02								CAP - MALE TURCK (QTY - 1)	426-5200	
RFM1-J6	RFM1-04	FUEL LEVEL XDCR	6m OPEN	426-5232					OPEN TO T.S. IN SENSOR		BLK = 4, GRN = BOX GND SCREW WHT = 5
RFM1-J8	RFM1-06	DRIVE COOL RESERVOIR LEVEL SWITCH	5m	426-6240	1m	426-5230	6m LOW LEVEL	429-2624			

BOX: **EST1**
DESCRIPTION: **EMERGENCY STOP #1**

HARNESS #1 LENGTH	PART NO.
6m	428-6170

HARNESS #2 LENGTH	PART NO.

HARNESS #3 LENGTH	PART NO.

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	DEVICE CABLES								PINOUT
			HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	
EST1-J5	EST1-10, EST1-3 & EST1-5	CAB E-STOP SWITCH	3m	426-5213	3m	426-5213					
EST1-J3	EST1-9 & EST1-8	HV CABINET E-STOP SWITCH	5m	427-4513							
EST1-J1	EST1-7 & EST1-6	RIGHT REAR E-STOP SWITCH	10m	427-4508	2m	427-4510					
EST1-J2	EST1-1 & EST1-11	LEFT REAR E-STOP SWITCH	10m	427-4508							
EST1-J4	EST1-2 & EST1-12	HYD RESERVOIR E-STOP SWITCH	10m	427-4508							

LABEL NOTES:
1. LABEL EACH CABLE WITH HARNESS CODE AT EACH END USING A LABEL THAT REPEATS AROUND THE CABLE AS SHOWN.
2. LABEL EACH CABLE WITH ITS PART NUMBER NEAR EACH END USING A 'REPEATING TEXT' LABEL AS SHOWN.
3. COVER ALL LABELS WITH CLEAR HEAT SHRINK.



NOTE:
* INDICATES MACHINE OPTION — SHOWN FOR REFERENCE ONLY.

ITEM	PART NO.	QTY	DESCRIPTION
56	4282857	1	CABLE PVED-CC CAN
55	4292624	2	CABLE 3 PIN - LOW LEVEL
54	4274508	3	CABLE EXT 4 PIN 10M
53	4274513	1	CABLE EXT 4 PIN 5M
52	428916/	1	CABLE EXT 12 PIN 3M
51	4265838	1	CABLE EXT CAN 4.3M
50	4274510	1	CABLE EXT 4 PIN 2M
49	4274507	1	BREAKOUT BOX -5 PORT
48	4274370	4	LABELS FOR BRADY ID PAL LABELER
47	4274371	125	TAPE STRIPS
46	4170168	5	HEAT SHRINK CLEAR 2.000 2:1
45	4170167	15	HEAT SHRINK CLEAR 1.500 2:1
44	4170166	15	HEAT SHRINK CLEAR 1.000 2:1
43	4170165	15	HEAT SHRINK CLEAR .750 2:1
42	4170164	15	HEAT SHRINK CLEAR .500 2:1
41	4170163	15	HEAT SHRINK CLEAR .375 2:1
40	4267798	2	CABLE WATER PUMP LINCS II
39	4265200	6	CAP 7/8 MALE TURCK
38	4265235	7	BREAKOUT BOX 12 PIN 8 X 3 PIN
37	4261175	5	DEUTSCH DT06-2S KIT
36	4240140	1	CONNECTOR (PLUG) DIN RExXH3TH
35	4255187	2	TERMINAL HOUSING
34	4255183	4	TERMINAL
33	4263961	2	ASSY BLWR SPD SNSR CABLE 10 FT
32	4260477	1	ASSY ENG FAN SPD SNSR HARNESS
31	4266267	3	CABLE 3PIN M-5PIN 9FT SPD SNSR
30	4286133	1	CABLE 12 PIN AC 5.2M
29	4258492	1	WIRE HARNESS KIT-AIR DRYER
28	4264195	1	CABLE EXT E-NET 1.5M
27	4266254	1	CABLE CAN MALE TERM
26	4286130	3	CAN Y MALE - 2 FEM TURCK
25	4266251	1	CABLE EXT CAN 10M
24	4264188	1	CABLE EXT CAN 1.5M
23	4266249	2	CABLE EXT CAN 1M
22	4266246	2	CABLE EXT CAN 0.5M
21	4286173	3	CABLE EXT 12 PIN 10M
20	4286172	1	CABLE EXT 12 PIN 8M
19	4286170	7	CABLE EXT 12 PIN 6M
18	4292794	1	CABLE 3 PIN M12x1 ENCODER 1M
17	4286168	3	CABLE EXT 12 PIN 4M
16	4286162	2	CABLE EXT 12 PIN 2M
15	4286161	6	CABLE EXT 12 PIN 1.5M
14	4286160	4	CABLE EXT 12 PIN 1M
13	4270079	1	CABLE 3 PIN SERIES WIRED TEE 1M1M
11	4265234	18	CABLE EXT 3 PIN - MX12 4 PIN 1M
10	4265233	5	CABLE EXT 3 PIN - DIN 1M
9	4265232	11	CABLE EXT 3 PIN - OPEN 6M
8	4266241	4	CABLE EXT 3 PIN 10M
7	4266240	7	CABLE EXT 3 PIN 5M
6	4265213	5	CABLE EXT 3 PIN 3M
5	4265231	2	CABLE EXT 3 PIN 2M
4	4267782	2	CABLE EXT 3 PIN 4M
3	4264197	3	CABLE EXT 3 PIN 1.4M
2	4264196	1	CABLE EXT 3 PIN 1.2M
1	4265230	6	CABLE EXT 3 PIN 1M

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INTERPRET DIM & TOL PER LETOURNEAU SPEC. MS0.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, XX.DECIMAL ±.03, XXX.DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON CONTRACT NO.: 429-9022

DWN	L.WILLIAMS	08-28-17
CHK	KD	08-31-17
ENGR	JMS	09-05-17
PROD ENGR		
PROJ APPROVAL		
MATL		

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GP HARNESS RF L1350 G3

SIZE	DO NOT SCALE	DWG NO.	REV
E		4289027	07

SCALE 1/5 SHT 1 SHEET 1 OF 4

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REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
F3-5	06	ADD 4m TO HARN #1 & SHIFTED HARN #2,#3 ACCORDINGLY;					
E3-5	06	DEL HARN #1, #2, DEVICE DESCR, ADD CONN TYPE AT RFF2-09	1400982	2019-12-09	JFM	BBD	JMS
E3-5	07	ADD 10m TO HARN #1 & SENSORS TO HARN #2 & #3;					
E3-5	07	ADD RFF2-J6 & J8, RFF2-04 & 06 AT HARN & SIG PIN CODES	1406846	2020-03-13	JFM	BBD	JMS

LOW VOLTAGE CONTROL CABINET

BOX: **RFF1**
DESCRIPTION: **REAR FRAME FRONT #1**

HARNESS #1 LENGTH	HARNESS #1 PART NO.
6m	428-6170
HARNESS #2 LENGTH	PART NO.
HARNESS #3 LENGTH	PART NO.

HARNESS CODE	SIGNAL PIN CODE	DEVICE CABLES: DEVICE DESCRIPTION	HARNESS #1 LENGTH / TYPE	HARNESS #1 PART NO.	HARNESS #2 LENGTH / TYPE	HARNESS #2 PART NO.	HARNESS #3 LENGTH / TYPE	HARNESS #3 PART NO.	CONNECTOR TYPE	CONNECTOR PART NO.	PINOUT
RFF1-J7	RFF1-05	HYD RESERVOIR LEVEL SWITCH	6m LOW LEVEL	429-2624							
RFF1-J5	RFF1-03	HYD RESERVOIR OIL TEMP XDCR	1.2m	426-4196	1m XDCR	426-5234					
RFF1-J3	RFF1-09								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFF1-J1	RFF1-07	KLENZ RESERVOIR AIR XDCR	3m	426-6213	1m	426-5230	1m XDCR	426-5234			
RFF1-J2	RFF1-01	HYD TANK DUMP SOL	5m	426-6240	1m	426-5230					
RFF1-J4	RFF1-02								CAP - MALE TURCK (QTY - 1)	426-5200	
RFF1-J6	RFF1-04	STEER POSITION XDCR	4m	426-7762	1m	429-2794					
RFF1-J8	RFF1-06								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		

BOX: **RFF2**
DESCRIPTION: **REAR FRAME FRONT #2**

HARNESS #1 LENGTH	HARNESS #1 PART NO.
6m	428-6170
HARNESS #2 LENGTH	PART NO.
HARNESS #3 LENGTH	PART NO.

HARNESS CODE	SIGNAL PIN CODE	DEVICE CABLES: DEVICE DESCRIPTION	HARNESS #1 LENGTH / TYPE	HARNESS #1 PART NO.	HARNESS #2 LENGTH / TYPE	HARNESS #2 PART NO.	HARNESS #3 LENGTH / TYPE	HARNESS #3 PART NO.	CONNECTOR TYPE	CONNECTOR PART NO.	PINOUT
RFF2-J7	RFF2-05	AUX STEER ENABLE *							CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFF2-J5	RFF2-03	AUX STEER SUPPLY PRESS SWITCH *							CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFF2-J3	RFF2-09	AUX OIL COOLER FAN SPEED SENSOR	10m	426-6241	5 PIN SPD SNSR 9 FT (2.75 m)	426-6267	BLOWER SPEED SENSOR 10 FT (3.05 m)	425-3961			
RFF2-J1	24V ONLY	AIR DRYER HEATER	6m OPEN	426-5232					WIRE HARNESS AIR DRYER	425-8492	WHT = 1, GRN = 2
RFF2-J2	RFF2-01	RADIATOR FAN CONTROL SOL	5m	426-6240	1m DIN	426-5233					
RFF2-J4	RFF2-02	MAINTENANCE LIGHT MIDDLE RIGHT	6m OPEN	426-5232					2 PIN DEUTSCH	426-1175	BLK = 2, GRN = 1
RFF2-J6	RFF2-04										
RFF2-J8	RFF2-06										

BOX: **RFF3**
DESCRIPTION: **REAR FRAME FRONT #3**

HARNESS #1 LENGTH	HARNESS #1 PART NO.
6m	420-0170
HARNESS #2 LENGTH	PART NO.
1m	428-6160
HARNESS #3 LENGTH	PART NO.

HARNESS CODE	SIGNAL PIN CODE	DEVICE CABLES: DEVICE DESCRIPTION	HARNESS #1 LENGTH / TYPE	HARNESS #1 PART NO.	HARNESS #2 LENGTH / TYPE	HARNESS #2 PART NO.	HARNESS #3 LENGTH / TYPE	HARNESS #3 PART NO.	CONNECTOR TYPE	CONNECTOR PART NO.	PINOUT
RFF3-J7	RFF3-05	FAST HOIST PUMP XDCR	1m XDCR	426-5234							
RFF3-J5	RFF3-03	HOIST/BUCKET PUMP A XDCR	1m XDCR	420-0234							
RFF3-J3	RFF3-09	HOIST/BUCKET PUMP B XDCR	1m XDCR	426-5234							
RFF3-J1	RFF3-07	HOIST/BUCKET PUMP C XDCR	1m XDCR	426-5234							
RFF3-J2	RFF3-01	ACCESSORY PUMP XDCR	1m XDCR	426-5234							
RFF3-J4	RFF3-02	STEER PUMP A XDCR	1m XDCR	426-5234							
RFF3-J6	RFF3-04	STEER PUMP B XDCR	1m XDCR	426-5234							
RFF3-J8	RFF3-06	HYD OIL COOLER BYPASS SOL	1.4m	426-4197	1m DIN	426-5233					

NOTE:
* INDICATES MACHINE OPTION.
— SHOWN FOR REFERENCE ONLY.

GP HARNESS RF L1350 G3	SIZE E	DO NOT SCALE	4289027	REV 07
LWILLIAMS 08-28-17	SCALE 1/1		SHEET 2 OF 4	

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REAR FRAME HARNESS GROUP

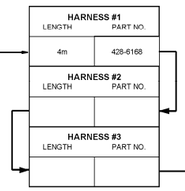
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REAR FRAME HARNESS GROUP

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	APP
	06	NO CHANGE THIS SHEET	1400982	2019-12-06	JFM	BBD	JMS
	07	NO CHANGE THIS SHEET	1406846	2020-03-13	JFM	BBD	JMS

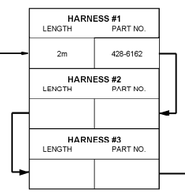
LOW VOLTAGE CONTROL CABINET

BOX: **RFF4**
DESCRIPTION: **REAR FRAME FRONT #4**



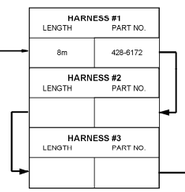
		DEVICE CABLES										
HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		PINOUT
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	
RFF4-J7	RFF4-05	BLOWER SPEED SENSOR	5 PIN SPD SNSR 9 FT (2.75m)	426-6267	BLOWER SPEED SENSOR 10 FT	425-3961					
RFF4-J5	RFF4-03	BLOWER PUMP PRESS XDCR	1m XDCR	426-5234							
RFF4-J3	RFF4-09	RADIATOR FAN PUMP PRESS XDCR	1m XDCR	426-5234							
RFF4-J1	RFF4-07	SYSTEM AIR PRESS XDCR	1m XDCR	426-5234							
RFF4-J2	RFF4-01	HPD GEARBOX TEMP XDCR	1.4m	425-4197	1m XDCR	426-5234					
RFF4-J4	RFF4-02	HPD GEARBOX PRESS XDCR	1m XDCR	426-5234							
RFF4-J6	RFF4-04	HYD RESERVOIR AIR PRESS XDCR	1m XDCR	426-5234							
RFF4-J8	RFF4-06										

BOX: **RFF5**
DESCRIPTION: **REAR FRAME FRONT #5**



		DEVICE CABLES										
HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		PINOUT
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	
RFF5-J7	RFF5-05	BLOWER SPEED CONTROL SOL	5m	426-6240	1m DIN	426-5233					
RFF5-J5	RFF5-03								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFF5-J3	RFF5-09	REAR WASHER PUMP	6m OPEN	426-5232					TERMINALS (QTY - 2) HOUSING (QTY - 1)	425-5183 425-5187	BLK, GRN
RFF5-J1	RFF5-07	FRONT WASHER PUMP	6m OPEN	426-5232					TERMINALS (QTY - 2) HOUSING (QTY - 1)	425-5183 425-5187	BLK, GRN
RFF5-J2	RFF5-01	AMBIENT AIR TEMPERATURE XDCR	1m	426-5230	3m	426-5213	1m XDCR	426-5234			
RFF5-J4	RFF5-02								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFF5-J6	RFF5-04								CAP - MALE TURCK (QTY - 1)	426-5200	
RFF5-J8	RFF5-06	FIRE SYSTEM STATUS	6m OPEN	426-5232							WHT=1, BLK= 3

BOX: **RAX1**
DESCRIPTION: **REAR AXLE #1**



		DEVICE CABLES										
HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		PINOUT
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	
RAX1-J7	RAX1-05	REAR SERVICE BRAKES XDCR	1m XDCR	426-5234							
RAX1-J5	RAX1-03	REAR PARK BRAKES XDCR	1m XDCR	426-5234							
RAX1-J3	RAX1-09	REAR PARK BRAKES SOL	6m OPEN	426-5232					2 PIN DEUTSCH	426-1175	BLK = 1, GRN = 2
RAX1-J1	RAX1-07	REAR DRIVER LUBE FLOW SWITCHES	TEE	427-0079	5m	426-6240	6m OPEN 6m OPEN	426-5232 426-5232	2 PIN DEUTSCH 2 PIN DEUTSCH	426-1175 426-1175	BLK = 1, WHT = 2 BLK = 1, WHT = 2
RAX1-J2	RAX1-01								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RAX1-J4	RAX1-02								CAP - MALE TURCK (QTY - 1)	426-5200	
RAX1-J6	RAX1-04								CAP - MALE TURCK (QTY - 1)	426-5200	
RAX1-J8	RAX1-06								CAP - MALE TURCK (QTY - 1)	426-5200	

NOTE:
* INDICATES MACHINE OPTION
— SHOWN FOR REFERENCE ONLY.

GP HARNESS RF L1350 G3
DRAWN: LWILLIAMS
DATE: 08-28-17
E
DO NOT SCALE
DRAWING NO. 4289027
REV 07
SCALE 1/1
SHEET 3 OF 4

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REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
E6-6	06	ADD 4.3m TO HARN #1 & 1m TO HARN #2 AND					
E5-6	06	SHIFTED OTHERS ACCORDINGLY AT EIC3 CONT.	1400982	2019-12-09	JFM	BBD	JMS
	07	NO CHANGE THIS SHEET	1406846	2020-03-13	JFM	BBD	JMS

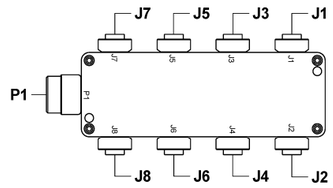
LOW VOLTAGE CONTROL CABINET

		HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR	
CABLE	DESCRIPTION	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.
KLZ1	KLENZ BOX	4m	428-6168	1.5m	428-6161				
MBR1	MIRROR BAR	6m	428-6170	1.5m	428-6161				
MBR2	MIRROR BAR	6m	428-6170	1.5m	428-6161				
DCP1	DRIVE COOLING PUMP	10m	426-6241	2m	426-5231				
EIC1	ENGINE INTERFACE CABINET	10m	428 6173	3m	428 6167				
EIC3	ENGINE INTERFACE CABINET	4.3m	426-5838	CAN Y MALE - 2 FEM	428-6130	4.3m	426-5838		
	(EIC3 CONT.)	STEER VALVE	428-2657 [END]	0.5m	426-6246	0.4m/WATER PUMP	426-7798 [END]		
		CAN Y MALE - 2 FEM	428-6130	0.5m	426-6246	CAN Y MALE - 2 FEM	428-6130		
	(EIC3 CONT.)	1m	426-6249	0.4m/WATER PUMP	426-7798 [END]				
		4.3m	426-5838						
CSP1	CONTROL SWITCH PANEL	10m	428-6173	2m	428-6162				
RCL1	REAR COWL	10m	428-6173	4m	428-6168				
RCL2	REAR COWL	10m	426 6241	4m	426 7762				
SRC1	SR CABINET	1m	428-6160	HARNESS PROVIDED AS PART OF SR CABINET ASSY					
SRC2	SR CABINET	1m	426-6249	HARNESS PROVIDED AS PART OF SR CABINET ASSY					
LLC1	LADDER LIGHT CONTROL	5m	426-6240	1m	426-5230				
CAB1	CAB	1.5m	428-6161						
CAB2	CAB	1.5m	428-6161						
CAB3	CAB	1.5m	428-6161						
CAB4	CAD	1.5m	428-6161						
CAB5	CAB	1.5m	426-4188						
CAB6	CAB	1.5m	426-4195						
CAB9	CAB TO AC CONDENSOR	5.2m	428-6133						
CAB10	CAB TO AC CLUTCH	1.4m	426-4197	1m DIN	426-5233				

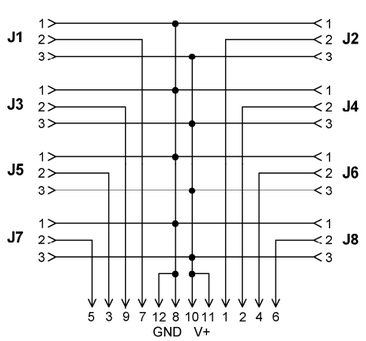
ISOLATION BOX

CABLE	DESCRIPTION	LENGTH / TYPE	PART NO.	PINOUT
CSP2	LADDER LIMIT SWITCH	6m OPEN	426-5232	GRN = NO CONNECTION WHT & BLK = CONNECT TOGETHER AT ONE SIDE OF THE LIMIT SWITCH TERMINAL

BREAKOUT BOX 12 PIN - 8 X 3 PIN (P/N: 426-5235) (ALL BOXES EXCEPT EST1)

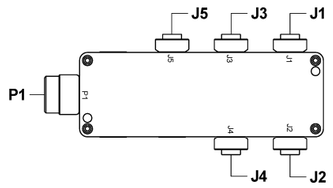


TOP VIEW - BREAKOUT BOX

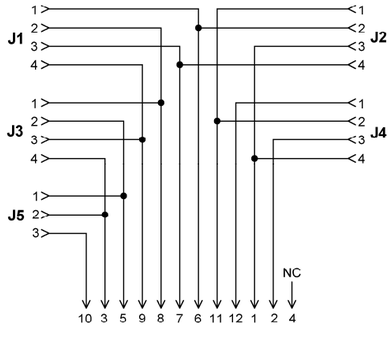


SCHEMATIC - BREAKOUT BOX

BREAKOUT BOX - 5 PORT (P/N: 427-4507) (EST1 BOX ONLY)



TOP VIEW - BREAKOUT BOX



SCHEMATIC - BREAKOUT BOX

NOTE:
* INDICATES MACHINE OPTION
— SHOWN FOR REFERENCE ONLY.

GP HARNESS RF L1350 G3 | WILLIAMS | 08-26-17 | E | DO NOT SCALE | 4289027 | 07 | 1/1 | SHEET 4 OF 4

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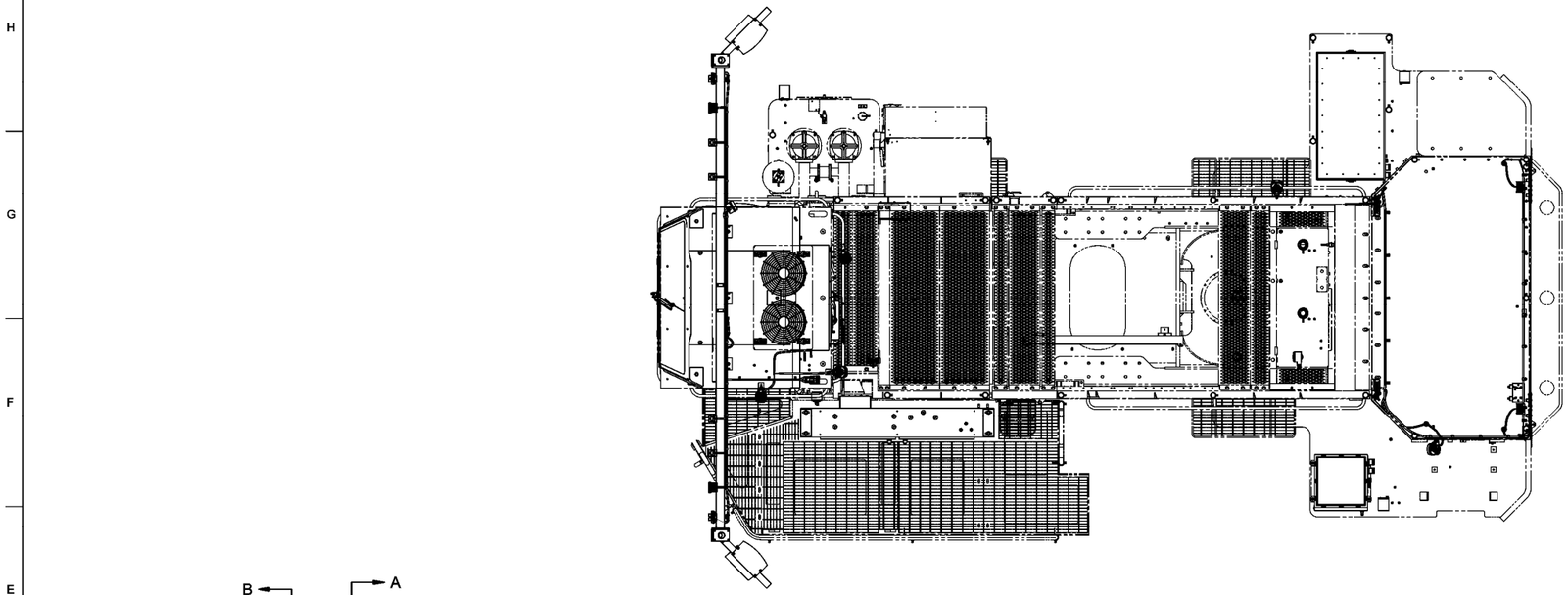
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289027		REAR FRAME HARNESS GROUP		9/15/20
1	R4265230	6	· CABLE EXTENSION, 3 PIN 1M		
2	R4264196	1	· CABLE EXTENSION, 3 PIN 1.2M		
3	R4264197	3	· CABLE EXTENSION, 3 PIN 1.4 MM		
4	R4267762	2	· CABLE EXTENSION, 3 PIN 4M		9/15/20
5	R4265231	2	· CABLE EXTENSION, 3 PIN 2M		
6	R4265213	5	· CABLE EXTENSION, 3 PIN 3M		
7	R4266240	7	· CABLE EXTENSION, 3 PIN 5M		
8	R4266241	4	· CABLE EXTENSION, 3 PIN 10M		2/3/20
9	R4265232	11	· CABLE EXTENSION, 3 PIN - OPEN 6 M		
10	R4265233	5	· CABLE EXTENSION, 3 DIN 1M		
11	R4265234	18	· CABLE, 3 PIN - MX12 4 PIN, 1 M		
12	N.P.N.		· NOT USED		9/15/20
13	R4270079	1	· CABLE, 3 PIN 1M X 1M		
14	R4286160	4	· CABLE EXTENSION, 12 PIN 1M		
15	R4286161	6	· CABLE EXTENSION, 12 PIN 1.5M		
16	R4286162	2	· CABLE EXTENSION, 12 PIN 2M		
17	R4286168	3	· CABLE EXTENSION, 12 PIN 4M		
18	R4292794	1	· CABLE EXTENSION, 3 PIN 1M		
19	R4286170	7	· CABLE EXTENSION, 12 PIN 6M		
20	R4286172	1	· CABLE EXTENSION, 12 PIN 8M		
21	R4286173	3	· CABLE EXTENSION, 12 PIN 10M		
22	R4266246	2	· CABLE EXTENSION, CAN .5M		9/15/20
23	R4266249	2	· CABLE EXTENSION, CAN 1M		9/15/20
24	R4264188	1	· CABLE EXTENSION, CAN 1.5M		
25	R4266251	1	· CABLE EXTENSION, CAN 10M		9/15/20
26	R4286130	3	· CABLE Y, CAN - 1 MALE-2 FEMALE		2/3/20
27	R4266254	1	· CABLE, CAN - MALE		
28	R4264195	1	· CABLE EXTENSION, E-NET 1.5 MM		
29	R4258492	1	· HARNESS KIT, AIR DRYER		
30	R4286133	1	· CABLE, 12 PIN AC 5.2M		
31	R4266267	3	· CABLE, 3PIN - M-5PIN 9FT SPEED SENSOR		9/15/20
32	R4260477	1	· HARNESS ASSEMBLY, ENGINE FAN SPEED SENSOR		
33	R4253961	2	· CABLE ASSEMBLY, BLOWER SPEED SENSOR - 10'		2/3/20
34	R4255183	4	· TERMINAL		
35	R4255187	2	· TERMINAL HOUSING		
36	R4240140	1	· CONNECTOR PLUG, DIN REXROTH		
37	R4261175	5	· CONNECTOR KIT, DT06-2S KIT		
38	R4265235	7	· BREAKOUT BOX, 12 PIN - 8 X 3 PIN		
39	R4265200	6	· CAP, TURCK - 7/8" MALE		2/3/20
40	R4267798	2	· CABLE, WATER PUMP - LINCS II		
41	R4170163	15	· HEAT SHRINK, CLEAR - 3/8"		
42	R4170164	15	· HEAT SHRINK, CLEAR - 1/2"		
43	R4170165	15	· HEAT SHRINK, CLEAR - 3/4"		
44	R4170166	15	· HEAT SHRINK, CLEAR - 1"		
45	R4170167	15	· HEAT SHRINK, CLEAR - 1-1/2"		
46	R4170168	5	· HEAT SHRINK, CLEAR - 2"		
47	R4274371	1	· TAPE STRIPS		
48	R4274370	4	· LABELS		
49	R4274507	1	· BREAKOUT BOX, 5 PORT		
50	R4274510	1	· CABLE EXTENSION, 4 PIN 2M		
51	R4265838	1	· CABLE EXTENSION, CAN 4.3M		
52	R4286167	1	· CABLE EXTENSION, 12 PIN 3M		
53	R4274513	1	· CABLE EXTENSION, 4 PIN 5M		
54	R4274508	3	· CABLE EXTENSION, 4 PIN 10M		
55	R4292624	2	· CABLE , 3 PIN - LOW LEVEL		
56	R4282857	1	· CABLE, CAN - PVED-CC		9/15/20

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
		REF	DRAWING, REAR FRAME HARNESS GROUP (R428902707)		9/15/20

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LOW VOLTAGE ELECTRICAL COMPONENTS



ITEM	PART NO.	QTY	DESCRIPTION
52	0230017	5	NUT HX #10-32 NF
51	4156542	5	SSCR HX #10 1.000 NF CUP
50	4286554	4	WASHER FLAT .563 1.375 .195
49	0810991	2	WASHER FLAT .531 1.062 .121
48	0801181	6	WASHER LOCK SPR .500 .873 .125
47	0824790	4	BOLT HX .500 1.750 NC G8
46	0801180	2	BOLT HX .500 1.000 NC G8 FT
45	4265261	10	WASHER FLAT .406 .845 .126
44	0808221	17	WASHER FLAT .375 .81 .08
43	0753123	27	WASHER LOCK SPR .375 .68 .09
42	4009640	4	BOLT HX .375 1.500 NC G8
41	0808476	2	BOLT HX .375 1.250 NC G8
40	0810971	16	BOLT HX .375 1.000 NC G8 FT
39	4131104	4	BOLT HX .375 .875 NC G8 FT
38	0810970	1	BOLT HX .375 .750 NC G8 FT
37	4010923	12	WASHER FLAT .250 .63 .066
36	0213584	12	WASHER LOCK SPR .25 .49 .06
35	0810966	4	BOLT HX .250 .750 NC G8 FT
34	0417597	8	BOLT HEX .250 .500 NC G8 FT
33	0810880	17	WASHER FLAT .219 .50 .07
32	4010907	17	WASHER LOCK SPR .190 .334 .047
31	0817105	12	MSCR PH #10-32 UNF X .75
30	0986144	1	CLAMP CABLE INSL 1.25 .406
29	4155057	1	PRESSURE SWITCH 200 PSI
28	4265491	1	TRANSMITTER PRESS 0-5000 PSIG
27	4286128	1	TEMP TRANSMITTER -50 TO 85 ° C
26	4117627	1	FUEL LEVEL SWITCH LOW LEVEL
25	4279005	1	FORWARD HORN UNIVERSAL MOUNT
24	4286089	1	STR PLATE MOUNT HORN CAB
23	4274593	1	COVER WIRE CHANNEL
22	4287641	1	STR WIRE CHAN 3.06 X 4.50 X 60 BOLT ON
21	4270063	1	ASSY SENSOR FUEL LEVEL 4-20mA
20	4274515	3	ASSY PUSHBUTTON E-STOP
19	4281999	2	STR E-STOP MOUNT
18	4258526	1	STR GUARD EMERGENCY STOP
17	4154792	3	RUBBER BUSHING Ø.937 X .50
16	4258790	3	LAMP WORK LED 9-32V
15	4275678	2	ASSY LAMP WORK LED 9-32V
14	4128304	1	GROMMET RUBBER
13	4265033	1	ASSY LADDER LIGHT SW BOX
12	4290171	1	GP POS SENSOR STEERING L1250
11	4265080	1	GP MIRROR BAR LIGHTS L13/18/23 G2
10	4274699	1	GP AC INSTALL HDW
9	4289024	1	GP COWL LIGHTS L1250 G3
8	4274464	1	GP CAB WITH ELECTRICS
7	4270333	1	GP CAB INSTALLATION HWR
6	4274479	1	ASSY LOW VOLTAGE CTRL CABINET
5	4265566	1	LVCC SUPPORT ASSY
4	4268365	1	ASSEMBLY, STEERING BOX
3	4270117	1	ISOL & CTRL SWITCH BOX ASSY
2	6985709	4	STORAGE BATTERY 12V WET
1	4268668	1	BATTERY BOX ASSEMBLY, L13/18/23 G2

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INTERPRET DIM & TOL PER LETOURNEAU SPEC W60.001

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.010
- MACHINED CORNERS 1MAX 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO	428-8022	
DWN	LWILLIAMS	05-24-17
CHK	JMS	06-29-17
ENGR	JMS	06-29-17
PROD ENGR		
PROJ APPROVAL		
MATL		

JOYGLOBAL

ASSY LV ELECT COMPONENTS L1250

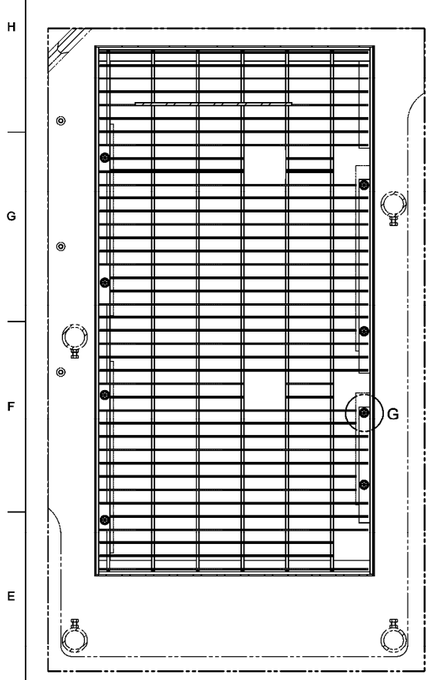
SIZE E | DO NOT SCALE | DWG NO. 4289025 | REV 00

SCALE 1/16 | WT/YR 0.0 lbm | SHEET 1 OF 9

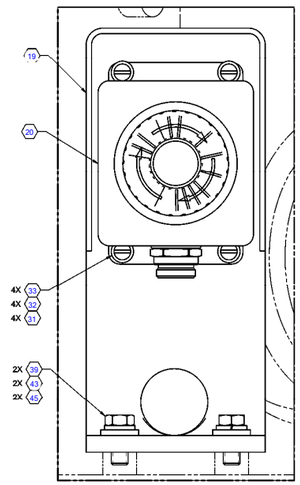
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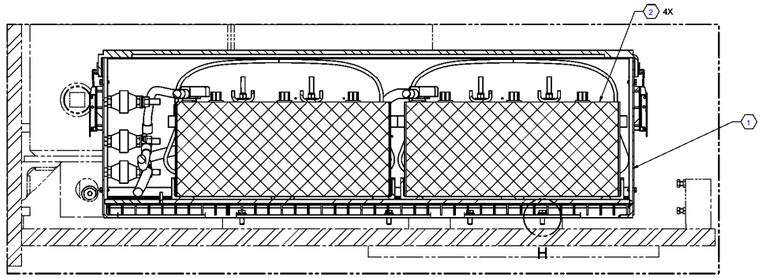
LOW VOLTAGE ELECTRICAL COMPONENTS



SECTION E-E
1:4



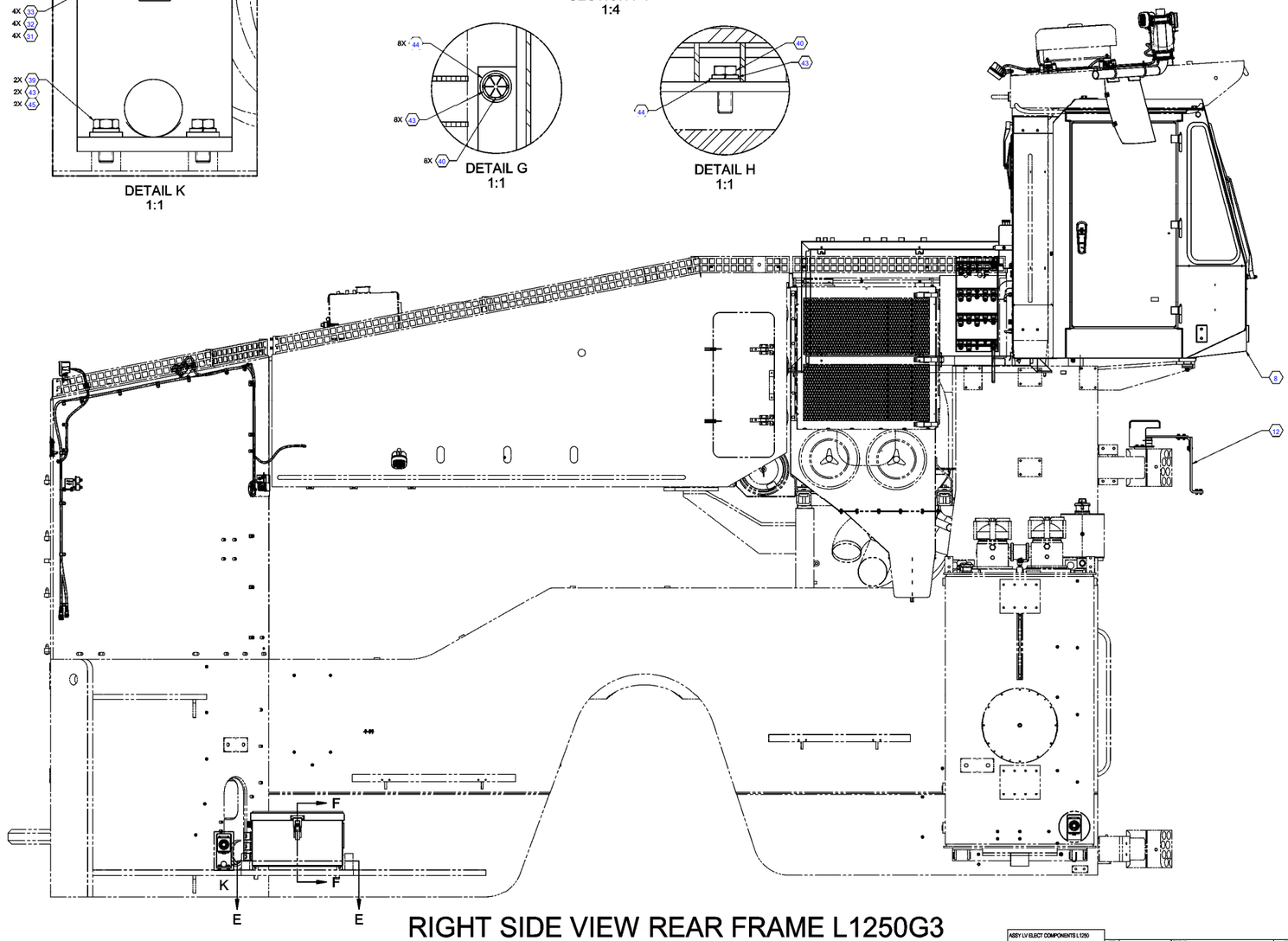
DETAIL K
1:1



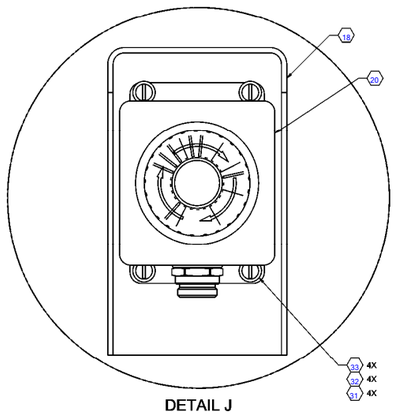
SECTION F-F
1:4

DETAIL G
1:1

DETAIL H
1:1



RIGHT SIDE VIEW REAR FRAME L1250G3
1:3/32



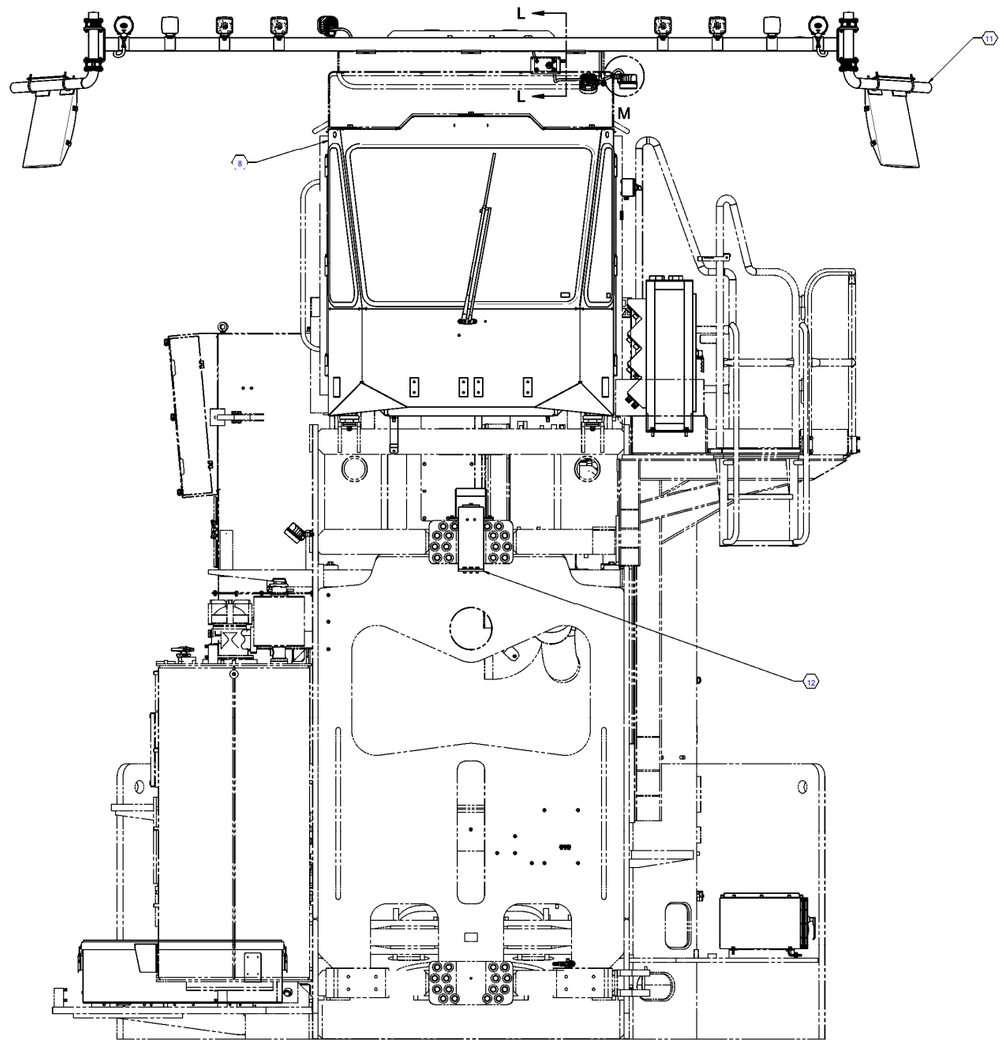
DETAIL J
1:1

ASSY LV ELECT COMPONENTS L1250				
Drawn: L.WILLIAMS	SIZE E	DO NOT SCALE	DWG NO. 4289025	REV 00
DRAWN 05-25-17	SCALE 1/16	WT 0,0 lbm	SHEET 2 OF 9	

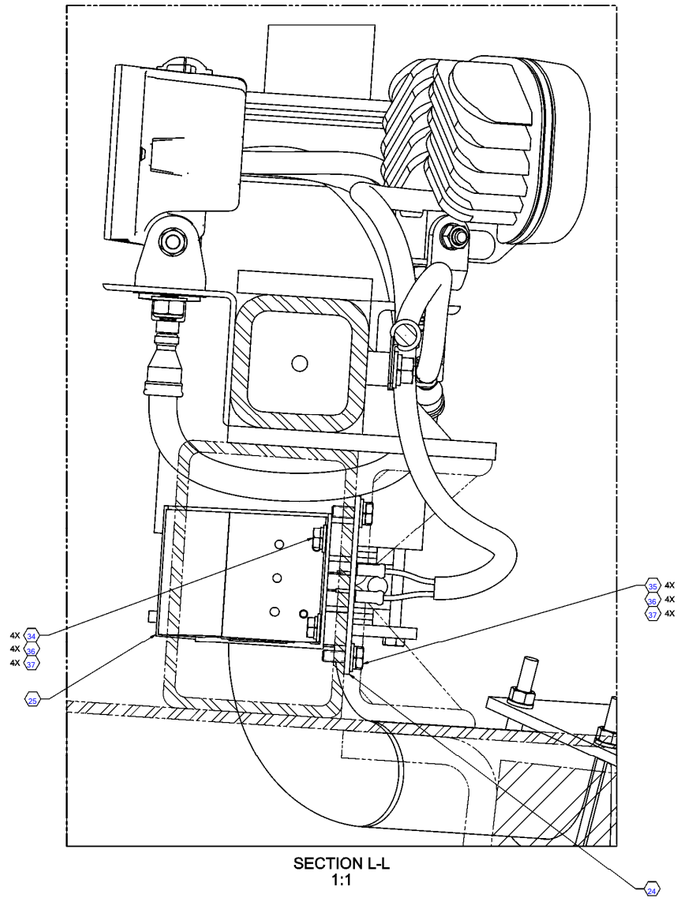
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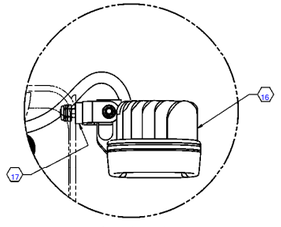
LOW VOLTAGE ELECTRICAL COMPONENTS



FRONT VIEW REAR FRAME L1250G3
1:3/32



SECTION L-L
1:1



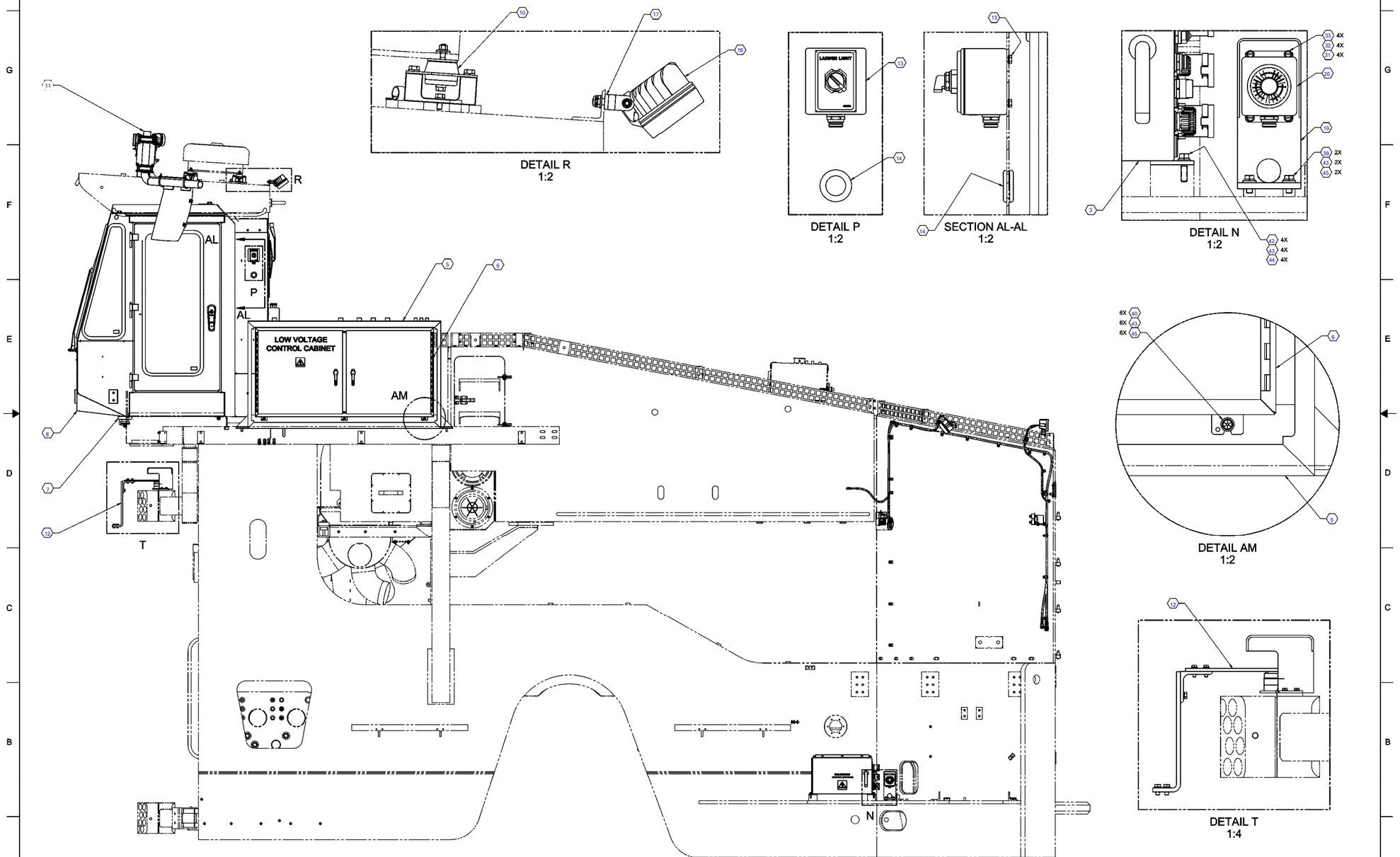
DETAIL M
1:2

ASSY LV ELECT COMPONENTS L1250				
DRAWN LWILLIAMS	SIZE E	DO NOT SCALE	DWG NO. 4289025	REV 00
ISSUED 05-25-17	SCALE 1/16	WT 0,0 lbsh	SHEET 3 OF 9	

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LOW VOLTAGE ELECTRICAL COMPONENTS



LEFT SIDE VIEW REAR FRAME L1250G3

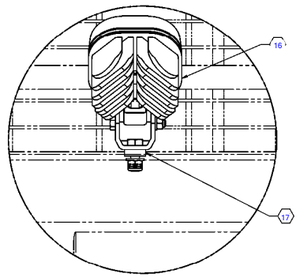
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ASSY LV ELECT COMPONENTS L1250			
DRAWN: L.WILLIAMS	SIZE E	DO NOT SCALE	DWG NO. 4289025 REV 00
DRAWN: 05-25-17	SCALE 1/16	WT 0.0 lbm	SHEET 4 OF 9

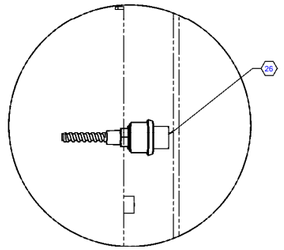
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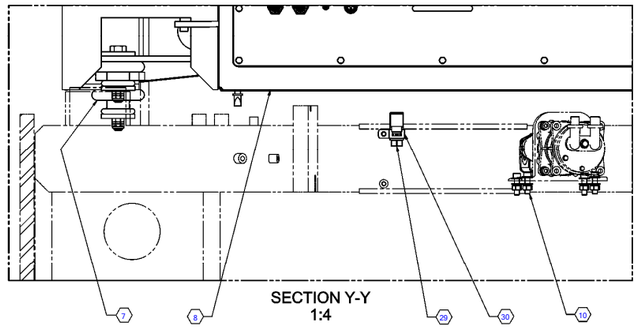
LOW VOLTAGE ELECTRICAL COMPONENTS



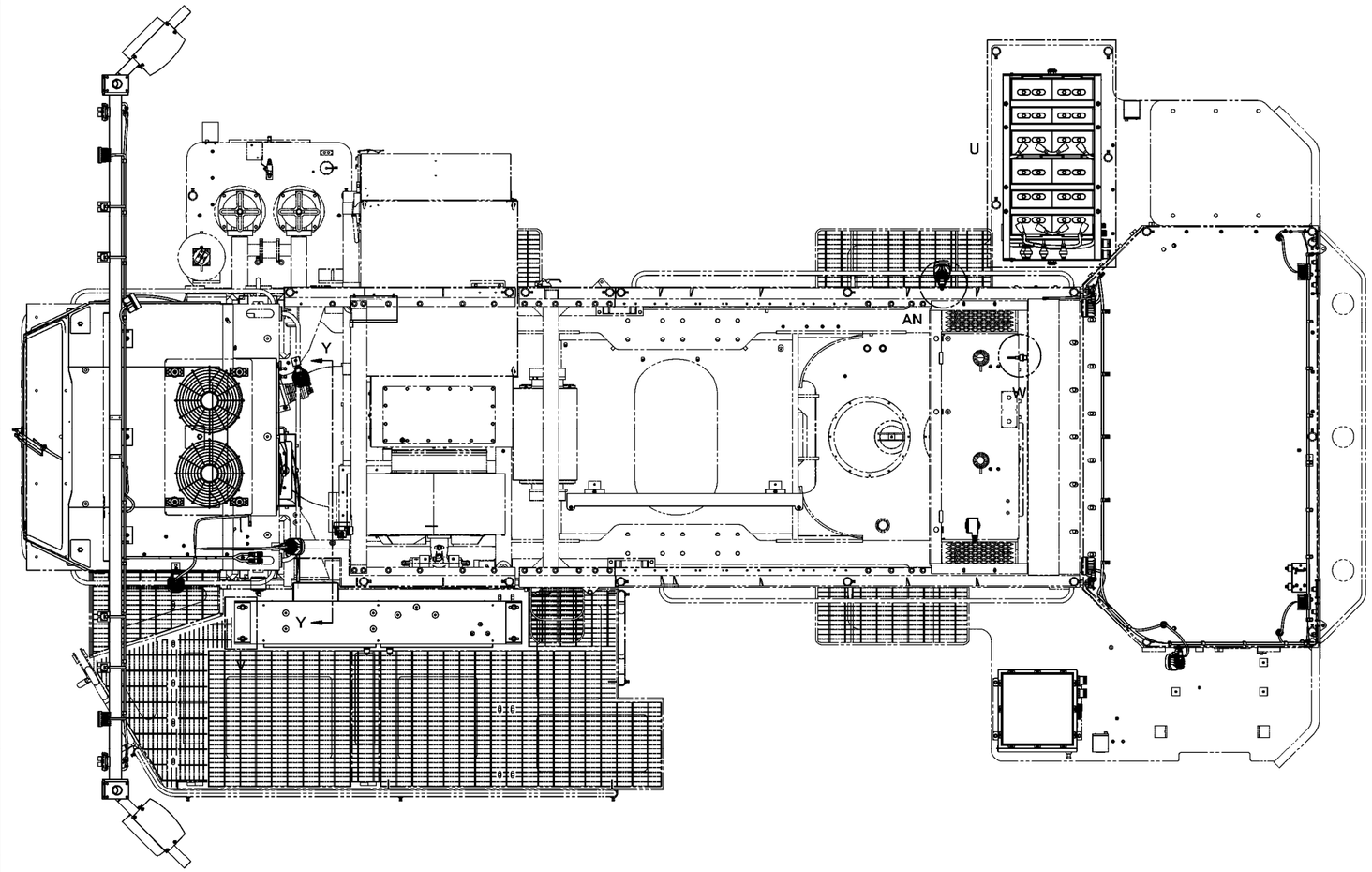
DETAIL AN
1:2



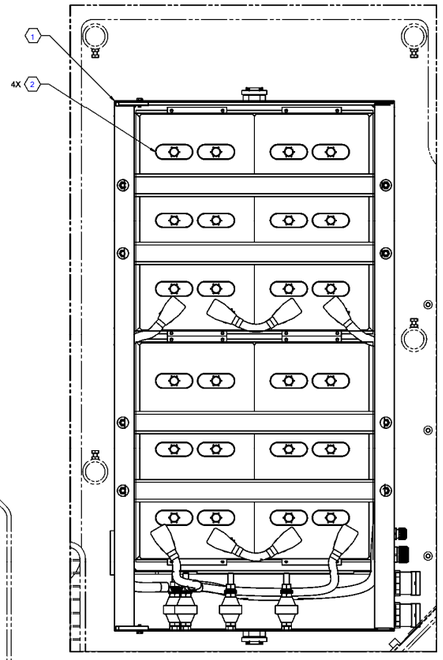
DETAIL W
1:2



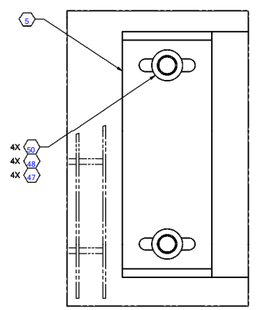
SECTION Y-Y
1:4



TOP VIEW REAR FRAME L1250G3
1:3/32



DETAIL U
1:4
BATTERY BOX ASSY LID IS REMOVED IN DETAIL U



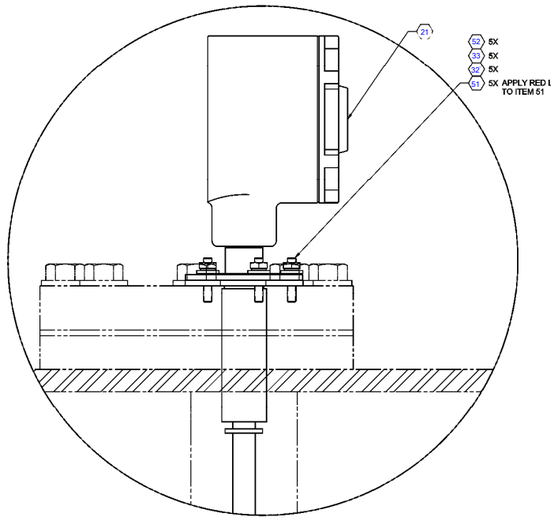
DETAIL V
1:2

ASSY LV ELECT COMPONENTS L1250				
Drawn: L.WILLIAMS	SIZE E	DO NOT SCALE	DWG NO. 4289025	REV 00
Date: 06-26-17	SCALE 1/16	WEIGHT 0,0 lbm	SHEET 5 OF 9	

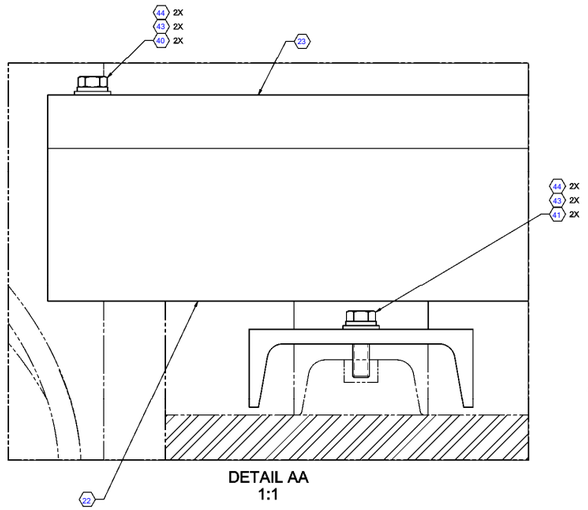
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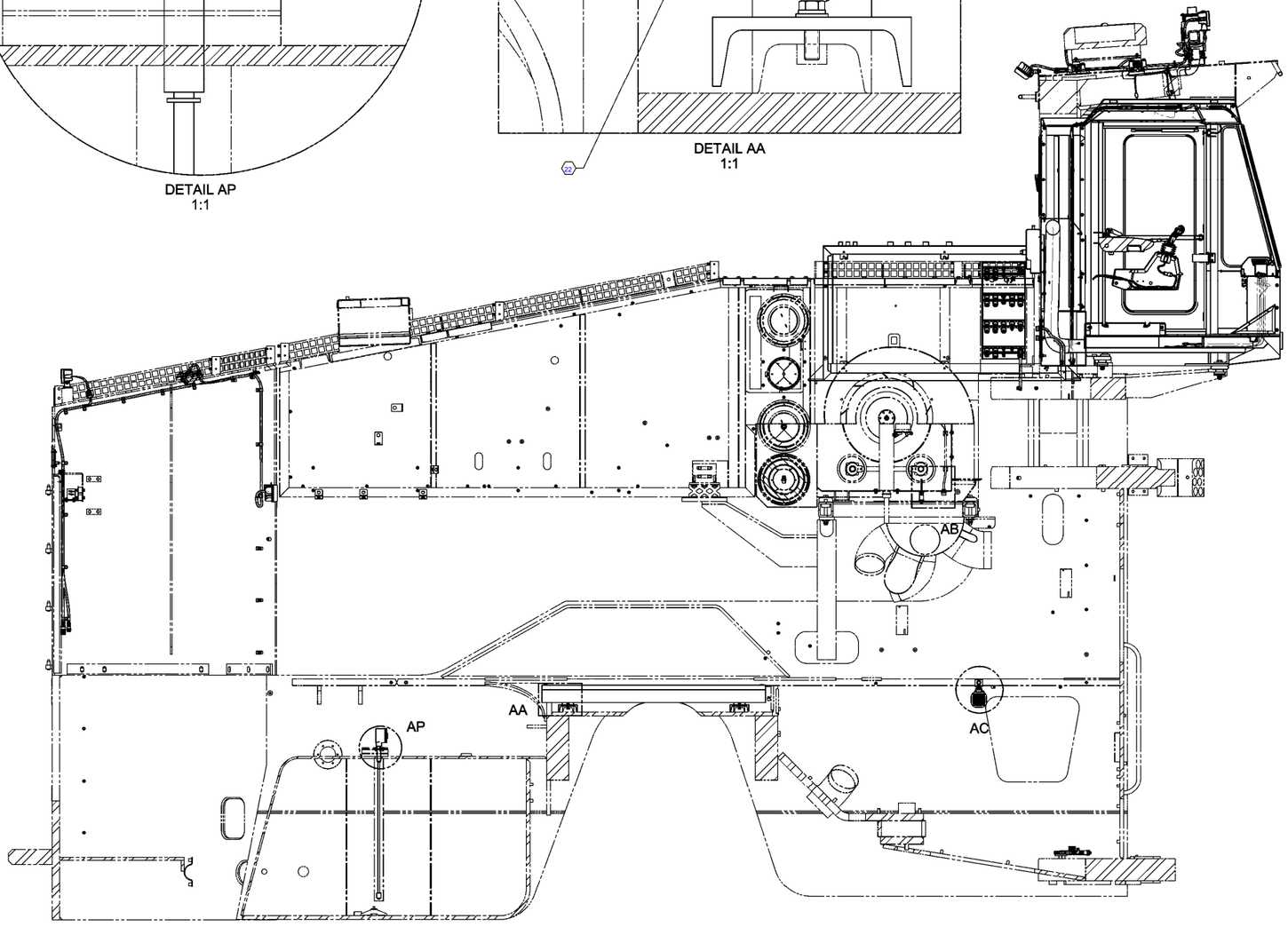
LOW VOLTAGE ELECTRICAL COMPONENTS



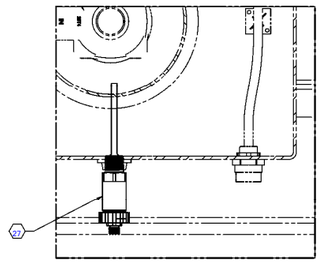
DETAIL AP
1:1



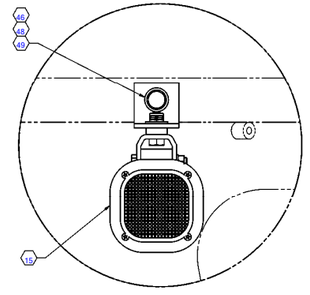
DETAIL AA
1:1



SECTION A-A
1:3/32



DETAIL AB
1:2



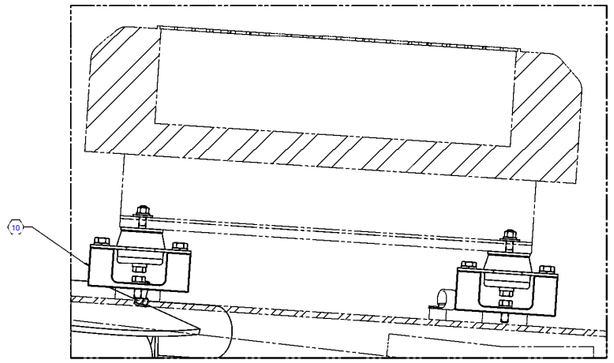
DETAIL AC
1:2

ASSY LV ELECT COMPONENTS L1250	SIZE E	DO NOT SCALE	DWG NO. 4289025	REV 00
DRAWN LWILLIAMS				
DATE 05-25-17	SCALE 1/16	DRY WT 0.0 lbm	SHEET 6 OF 9	

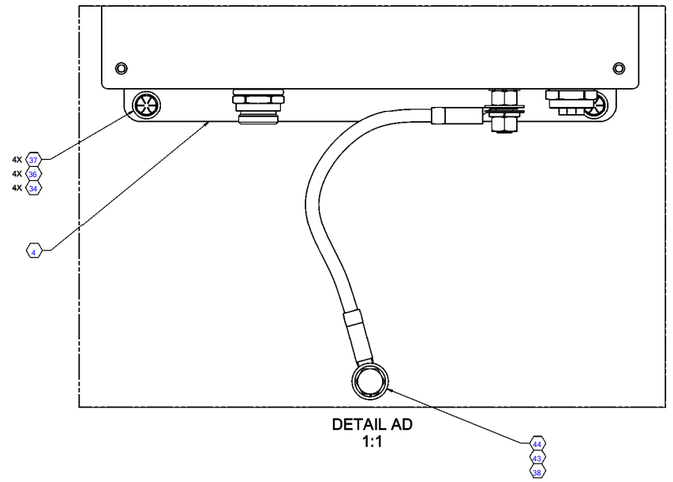
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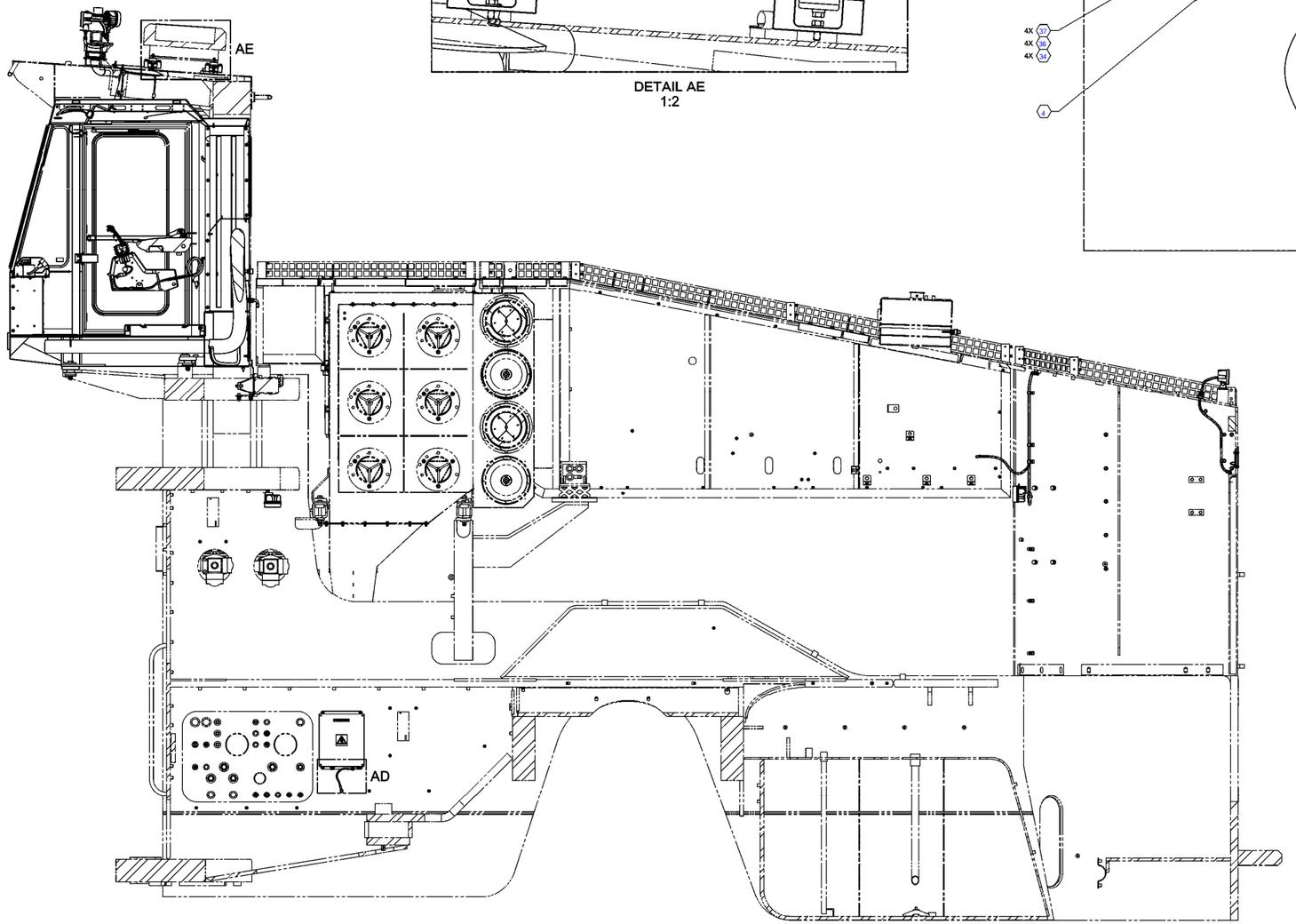
LOW VOLTAGE ELECTRICAL COMPONENTS



DETAIL AE
1:2



DETAIL AD
1:1



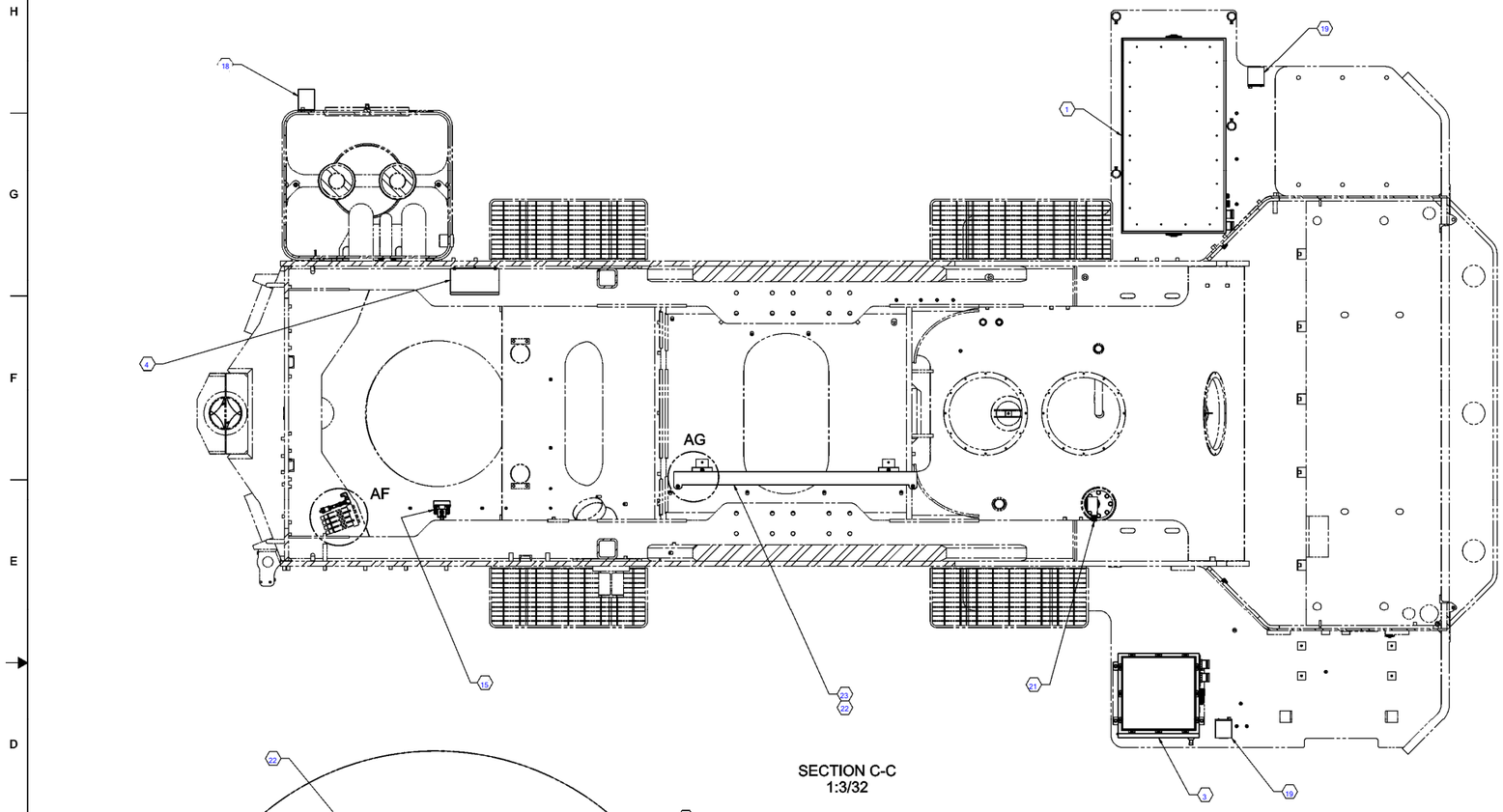
SECTION B-B
1:3/32

ASSY LV ELECT COMPONENTS L120J				
DRAWN L.WILLIAMS	SIZE E	DO NOT SCALE	DWG NO. 4289025	REV 00
ISSUED 05-25-17	SCALE 1/16	KEY WT 0.0 lbm	SHEET 7 OF 9	

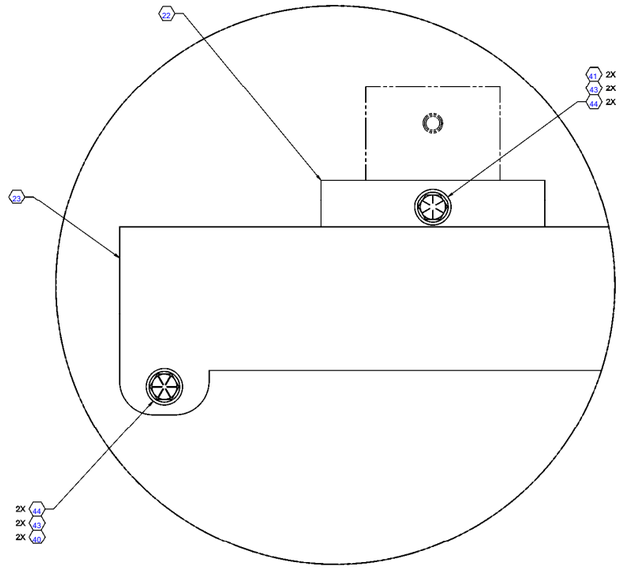
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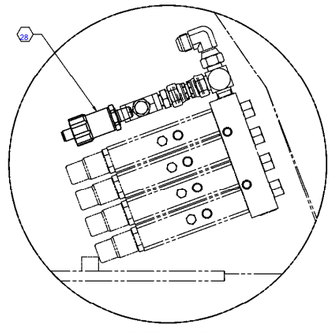
LOW VOLTAGE ELECTRICAL COMPONENTS



SECTION C-C
1:3/32



DETAIL AG
1:1



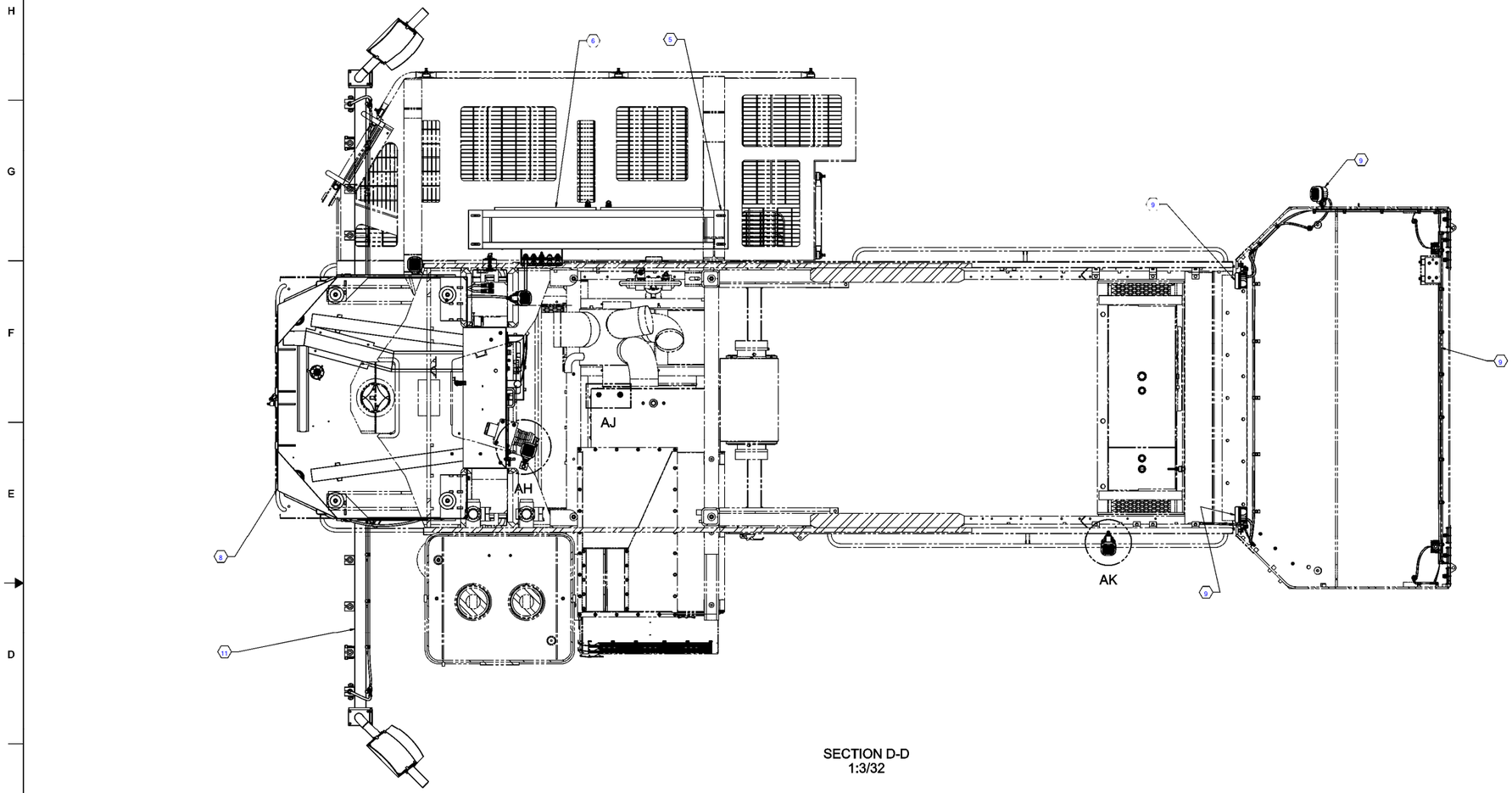
DETAIL AF
1:2

ASSY LV ELECT COMPONENTS L120G	SIZE E	DO NOT SCALE	DWG NO. 4289025	REV 00	
drawn LWILLIAMS	SCALE 1/16	WT KG 0,0 lbsh	SHEET 8 OF 9		
date 05-25-17					

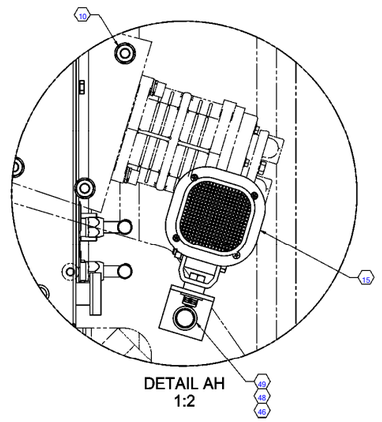
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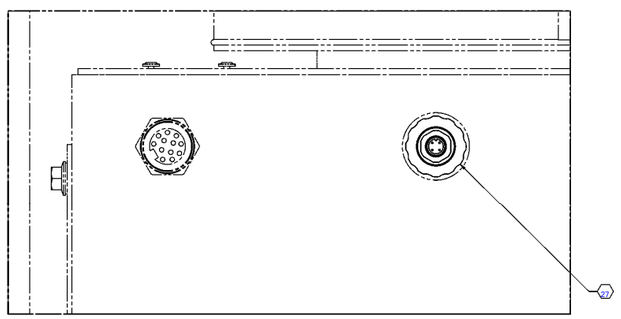
LOW VOLTAGE ELECTRICAL COMPONENTS



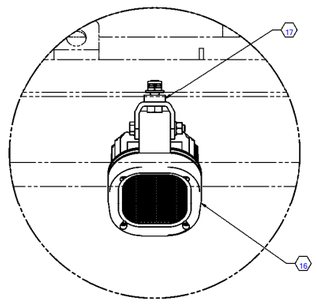
SECTION D-D
1:3/32



DETAIL AH
1:2



DETAIL AJ
1:1



DETAIL AK

ASSY LV ELECT COMPONENTS L120G		SIZE E	DO NOT SCALE	DWG NO. 4289025	REV 00
DRAWN L.WILLIAMS					
ISSUED 05-25-17		SCALE 1/16	WT 0.0 lbm	SHEET 9 OF 9	

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289025		LOW VOLTAGE ELECTRICAL COMPONENTS		
1	R4268668	1	· BATTERY BOX ASSEMBLY (PAGE 5.22-5.22A)		
2	R6985709	4	· BATTERY, 12V WET		
3	R4270117	1	· ISOLATION SWITCH BOX ASSEMBLY (PAGE 5.85-5.85A)		
4	R4268365	1	· STEERING BOX ASSEMBLY		
5	R4265566	1	· SUPPORT ASSEMBLY, LOW VOLTAGE CONTROL CABINET		
6	R4274479	1	· CABINET ASSEMBLY, LOW VOLTAGE CONTROL (PAGE 5.90-5.90A)		
7	R4270333	1	· CAB INSTALLATION HARDWARE GROUP		
8	R4274464	1	· CAB GROUP (PAGE 5.82-5.82A)		
9	R4289024	1	· REAR COWL LIGHTS GROUP (PAGE 5.40-5.40A)		
10	R4274699	1	· A/C INSTALLATION HARDWARE GROUP		
11	R4265080	1	· MIRROR/LIGHT BAR ASSEMBLY (PAGE 1.16-1.16A)		
12	R4290171	1	· STEERING POSITION INDICATOR GROUP (PAGE 5.11-5.11A)		
13	R4265033	1	· SWITCH BOX ASSEMBLY, LADDER LIGHT		
14	R4128304	1	· GROMMET, RUBBER - 1-1/4" I.D. X 2" O.D.		
15	R4275678	2	· LAMP ASSEMBLY, WORK - LED, 9-32V		
16	R4258790	3	· LAMP ASSEMBLY, WORK - LED, 9-32V		
17	R4164792	3	· BUSHING, RUBBER - 5/16" I.D. X 1" O.D.		
18	R4258526	1	· GUARD STRUCTURE, EMERGENCY STOP		
19	R4281999	2	· MOUNT STRUCTURE, E-STOP		
20	R4274515	3	· PUSHBUTTON ASSEMBLY, E-STOP		
21	R4270063	1	· SENDING UNIT ASSEMBLY, FUEL LEVEL		
22	R4287641	1	· COVER CHANNEL, WIRE - 60"		
23	R4274593	1	· COVER CHANNEL, WIRE - 60"		
24	R4286089	1	· MOUNT STRUCTURE, CAB HORN		
25	R4279005	1	· HORN, ELECTRIC - 12-60 VDC, UNIVERSAL MOUNT		
26	R4117627	1	· SENDING UNIT, LOW LEVEL		
27	R4286128	1	· SENSOR ASSEMBLY, TEMPERATURE - -50 TO +85 C		
28	R4255491	1	· TRANSMITTER, PRESSURE - 0-5000 PSI		
29	R4155057	1	· SWITCH, PRESSURE - 200 PSI		
30	R0986144	1	· CLAMP, CABLE - INSULATED, 1-1/4"		
31	R0817105	12	· SCREW, #10-32 X 3/4"		
32	R4010907	17	· LOCKWASHER, #10		
33	R0810880	17	· FLATWASHER, #10		
34	R0417597	8	· BOLT, 1/4"-20 X 1/2"		
35	R0810986	4	· BOLT, 1/4"-20 X 3/4"		
36	R0213584	12	· LOCKWASHER, 1/4"		
37	R4010923	12	· FLATWASHER, 1/4"		
38	R0810970	1	· BOLT, 3/8"-16 X 3/4"		
39	R4131194	4	· BOLT, 3/8"-16 X 7/8"		
40	R0810971	16	· BOLT, 3/8"-16 X 1"		
41	R0808476	2	· BOLT, 3/8"-16 X 1-1/4"		
42	R4009640	4	· BOLT, 3/8"-16 X 1-1/2"		
43	R0753123	27	· LOCKWASHER, 3/8"		
44	R0808221	17	· FLATWASHER, 3/8"		
45	R4285261	10	· FLATWASHER, 7/16" X 3/4" X 1/8"		
46	R0801180	2	· BOLT, 1/2"-13 X 1"		
47	R0824790	4	· BOLT, 1/2"-13 X 1-3/4"		
48	R0801181	6	· LOCKWASHER, 1/2"		
49	R0810991	2	· FLATWASHER, 1/2" X 1" X 1/8"		
50	R4286554	4	· FLATWASHER, 9/16" X 1-3/8" X 3/16"		
51	R4156542	5	· SETSCREW, #10-32 X 1"		
52	R0230017	5	· NUT, #10-32		
			DRAWING, LOW VOLTAGE ELECTRICAL COMPONENTS (R428902500)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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L-1350-2302 PARTS MANUAL
Motors And ESD

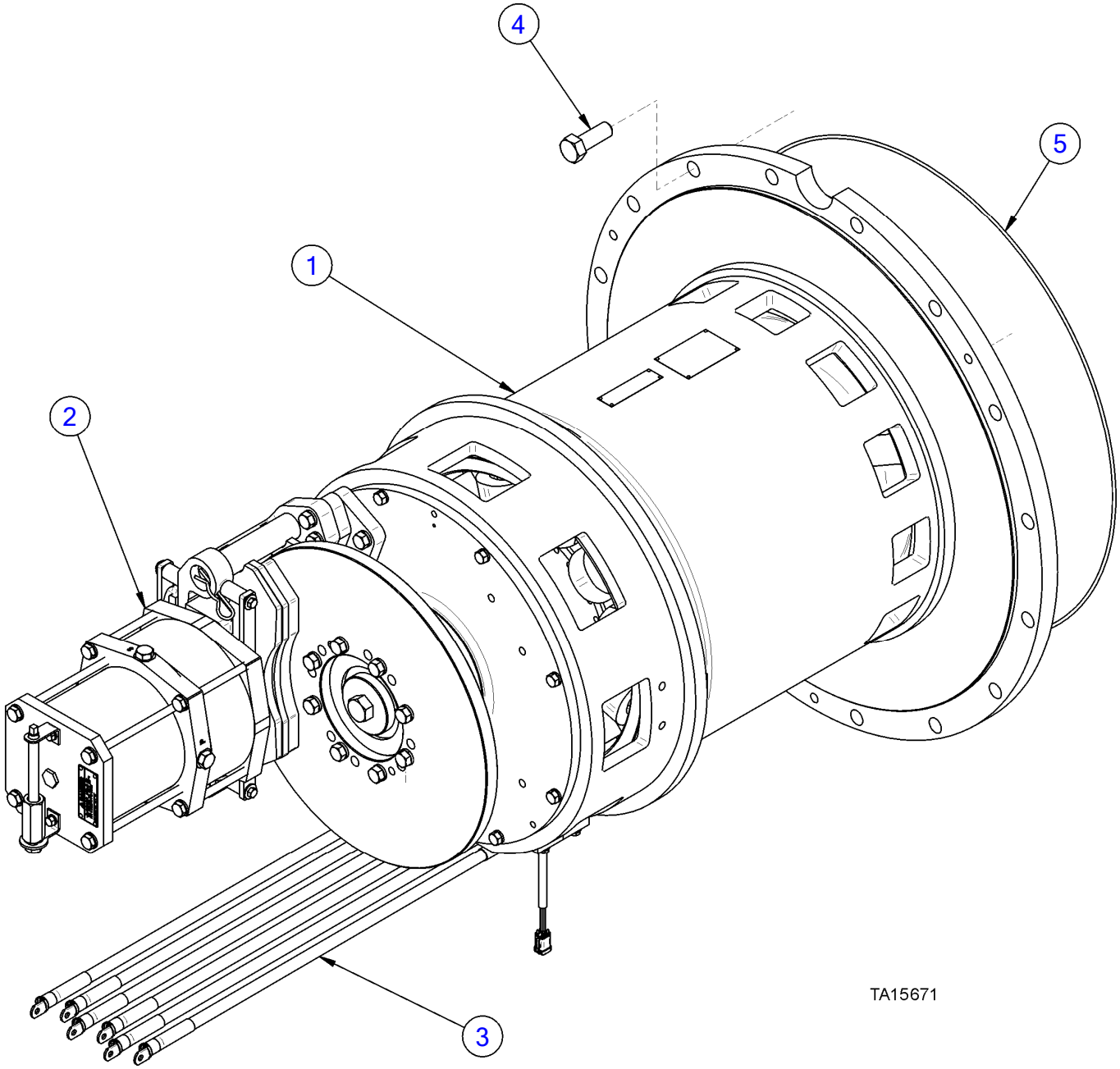
SECTION OR GROUP TITLE
B40A MOTOR AND BRAKE ASSEMBLY
B40A MOTOR ASSEMBLY - 51 DRIVER
B40A MOTOR ASSEMBLY
ESD INSTALLATION GROUP
ESD F20 SR ASSEMBLY
Komatsu has made effort to make this manual as accurate as possible based on the information available at the time of publication and printing.
Continuous improvement and advancement of product design may cause changes to machines which may not have been included in this publication.
Komatsu reserves the right to make changes and improvements at any time.
To ensure the most current information, please use the Komatsu On-Line Parts Manual Database or contact your service center.
This illustrated Parts Manual is now designed primarily for electronic viewing.
It is best viewed from the DVD or the Komatsu On-Line Parts Manual Database.
In its printed paper version some items in the illustrations may appear small and the reference numbers may be difficult to read.
In a case where a number or view is unreadable you will need to view it electronically and use the zoom feature.
NOTE: Many of the parts for factory-installed optional components are found in Section 9 of the Parts Manual, which is titled MISCELLANEOUS.
It is essential to verify the optional equipment on the machine and check the parts lists in Section 9 prior to ordering parts.
Should there be questions or need for additional information concerning parts for factory-installed options, contact the Komatsu Parts Sales Department before placing an order.

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B40A MOTOR AND BRAKE ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4286697		B40A MOTOR AND BRAKE ASSEMBLY		
1	R4288901	1	· B40A MOTOR ASSEMBLY - 51 DRIVER (PAGE 6.1-6.1B)		
2	R4289554	1	· BRAKE CALIPER ASSEMBLY (PAGE 8.21-8.21A)		
3	N.P.N.	REF	LEAD DETAIL		
4	R0032781	REF	BOLT, 1"-8 X 2-3/4"	16	
5	R4176283	REF	O-RING, 35-1/4" I.D. - BUNA N	1	
		REF	DRAWING, B40A MOTOR AND BRAKE ASSEMBLY (R428669701)		

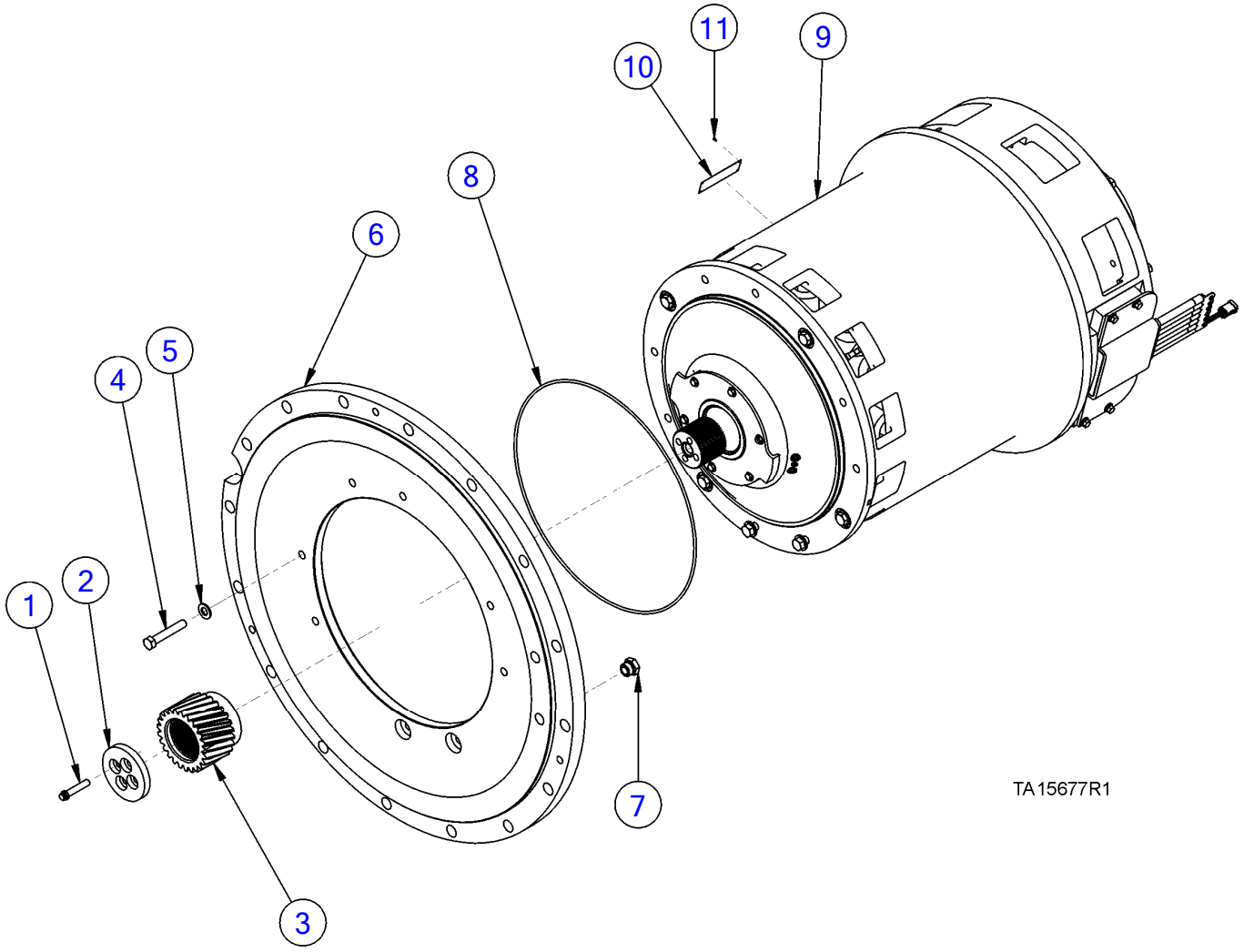
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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B40A MOTOR ASSEMBLY - 51 DRIVER



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288901		B40A MOTOR ASSEMBLY - 51 DRIVER		
1	R4001874	4	· CAPSCREW, 1/2"-13 X 2-1/2"		
2	R4221918	1	· RETAINER PLATE, PINION - B40		
3	R4221916	1	· PINION SHELL, 25T - 5P		
4	R0021637	8	· BOLT, 5/8"-11 X 3-3/4"		
5	R4217805	8	· FLATWASHER, 5/8"		
6	R4271288	1	· ADAPTER RING, B40A/51 DRIVER		
7	R4031553	2	· PLUG, #12 MO		
8	R4271284	1	· O-RING, 20" I.D. - BUNA N		
9	R4288900	1	· B40A MOTOR ASSEMBLY (PAGE 6.1-6.1C)		
10	R4275178	1	· NAME PLATE, SR MOTOR ASSEMBLY		
11	R4032268	4	· SCREW, DRIVE - #2 X 3/16"		
	R4285151	REF	PULLER TOOL, BRAKE HUB		
		REF	DRAWING, B40A MOTOR ASSEMBLY - 51 DRIVER (R428890100)		

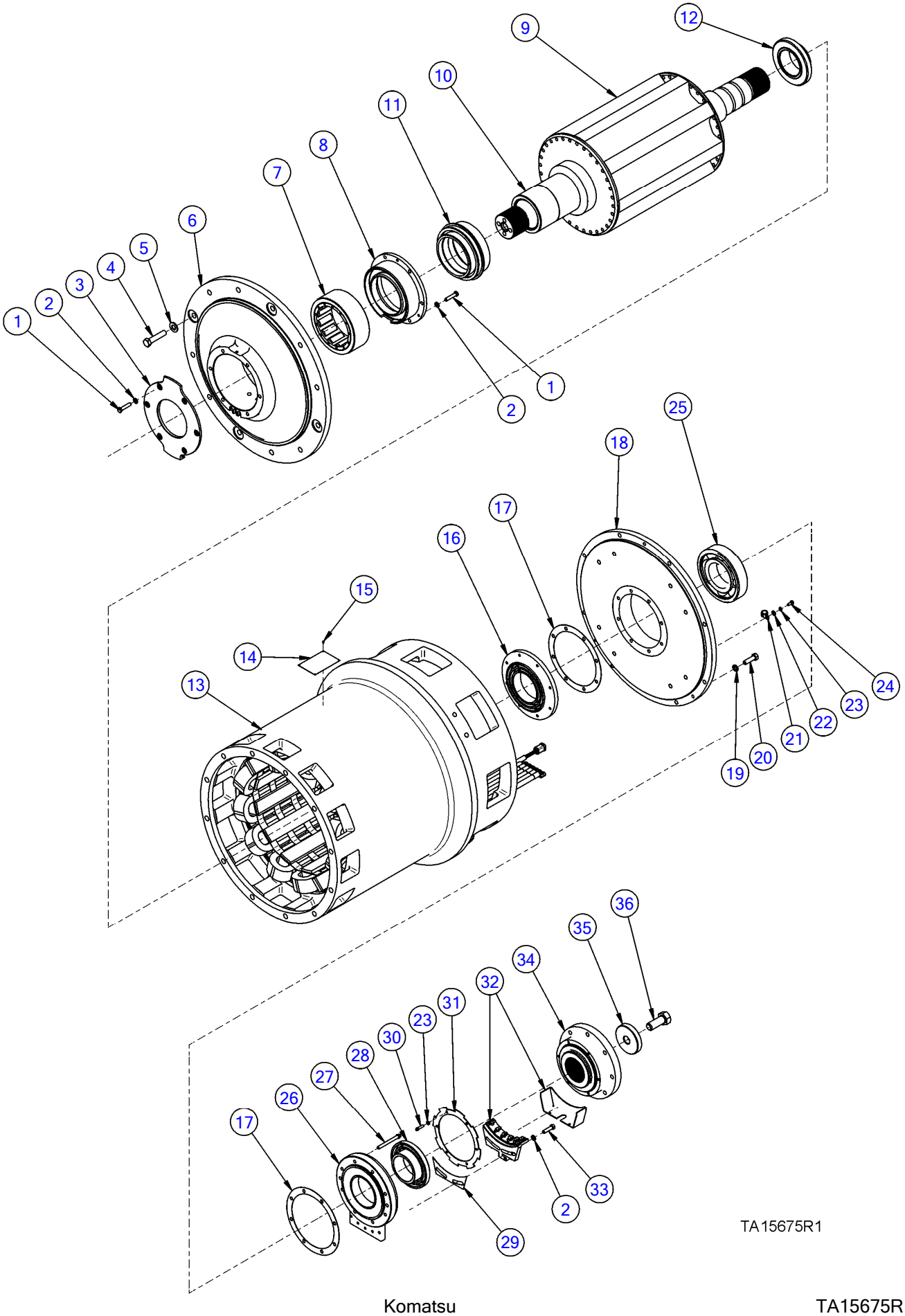
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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B40A MOTOR ASSEMBLY



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B40A MOTOR ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288900		B40A MOTOR ASSEMBLY		6/7/18
1	R0829683	12	· BOLT, 3/8"-16 X 1-3/4"		
2	R0753123	14	· LOCKWASHER, 3/8"		
3	R4235537	1	· RETAINER, BEARING - B40 PE OUTBOARD LIP		
4	R0021634	4	· BOLT, 5/8"-11 X 3"		
5	R4217805	4	· FLATWASHER, 5/8"		
6	R4266795	1	· ENDBELL, B40A DE		
7	R4068947	1	· BEARING ASSEMBLY, ROLLER		
8	R4234540	1	· SEAL, LABYRINTH - B40 MOTOR		
9	R4286590	1	· ROTOR ASSEMBLY, B40		
10	R4221919	1	· · RACE, BEARING - PE		
11	R4234815	1	· · RACE, INNER - LABYRINTH SEAL - B40 MOTOR		6/7/18
12	R4234541	1	· · SLINGER, INBOARD - J-2/57		
13	R4265485	1	· STATOR AND WINDING, B40A		
14	R4286616	1	· PLATE, DATA - B40A R4288900		
15	R4032268	4	· SCREW, DRIVE - #2 X 3/16"		
16	R4234813	1	· RETAINER, BEARING - INNER		
17	R4250207	2	· GASKET		
18	R4234520	1	· ENDBELL, MOTOR - B40 NDE		
19	R0801181	8	· LOCKWASHER, 1/2"		
20	R0824790	8	· BOLT, 1/2"-13 X 1-3/4"		
21	R4257612	1	· CLAMP, CABLE - INSULATED, 5/8"		
22	R4010923	1	· FLATWASHER, 1/4"		
23	R0213584	7	· LOCKWASHER, 1/4"		
24	R0812278	1	· BOLT, 1/4"-20 X 5/8"		
25	R4245678	1	· BEARING, BALL - INSULATED		
26	R4234836	1	· RETAINER, BEARING - OUTER		
27	R4001844	8	· CAPSCREW, 3/8"-16 X 3-1/2"		
28	R4234837	1	· RACE, OUTER - LABYRINTH SEAL - CE		6/7/18
29	R4262230	1	· SHIM PACK, CARRIER - RPT B40		
30	R4001805	6	· CAPSCREW, 1/4"-20 X 1"		
31	R4262229	1	· SHUTTER, RPT 12/8 SR		
32	R4262221	1	· CARRIER ASSEMBLY, RPT - B40		
33	R4009640	2	· BOLT, 3/8"-16 X 1-1/2"		
34	R4289656	1	· HUB, BRAKE - B40- SMALL		
35	R4235583	1	· WASHER, RETAINER - 4" X 3/4" X 1"		
36	R0986238	1	· BOLT, 1"-14 X 2-1/2"		
NS	R4214060	REF	· PAINT, RAVEN BLACK - QUICK DRY ENAMEL		
	R4251577	REF	· PRIMER, GRAY 112 - 1 GALLON		
	R4251575	REF	· CLEANER, ENAMEL		
	R4216206	REF	· GREASE, EXXON - UNIREX, N2, 35 LB PAIL		
		REF	DRAWING, B40A MOTOR ASSEMBLY (R428890002)		

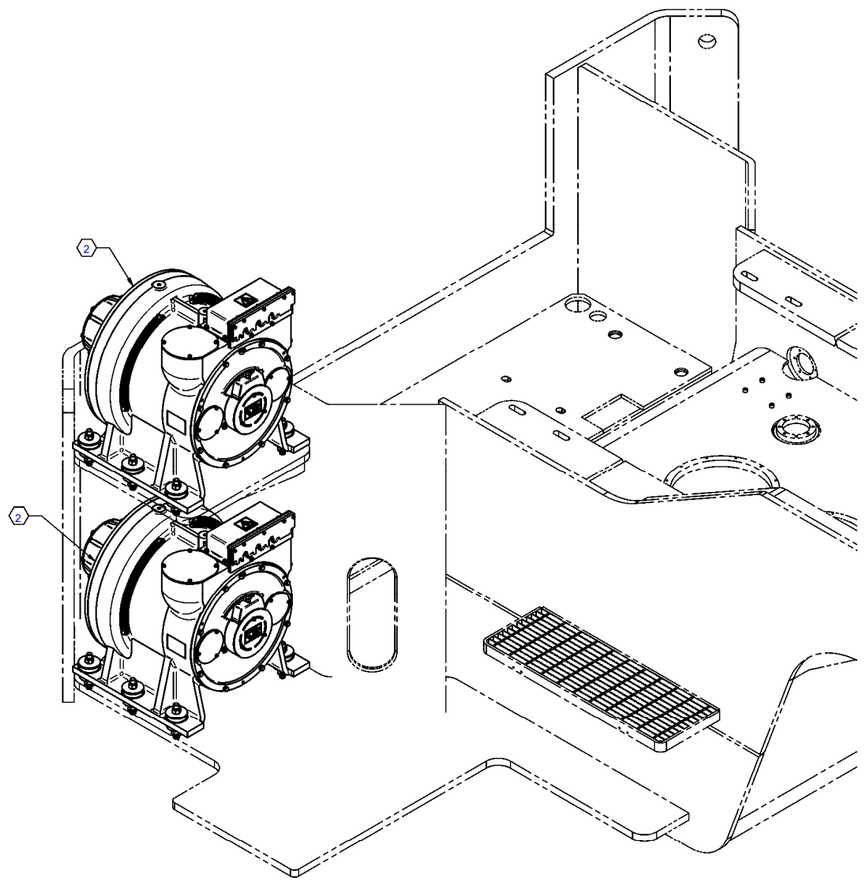
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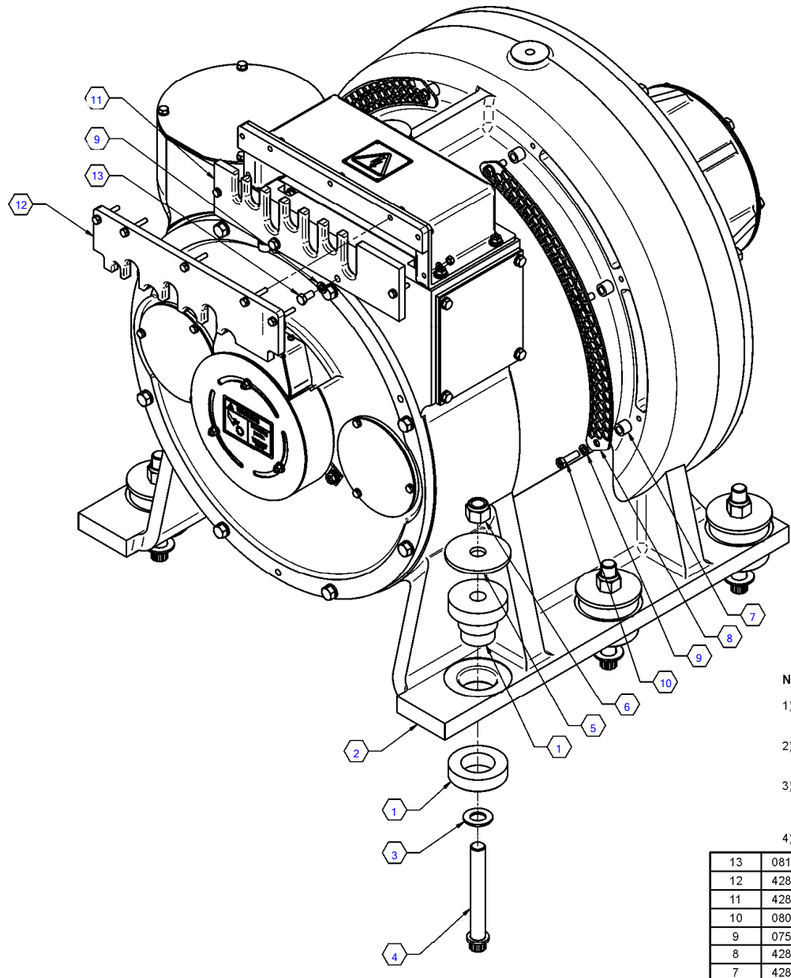
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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ESD INSTALLATION GROUP





TYPICAL ESD INSTALLATION

SCALE: 1:4

NOTES:

1) TORQUE ITEM 4 TO 617 LB-FT (DRY). DO NOT LUBRICATE WITH OIL.

2) USE THE EXISTING BOLTS IN THE BUSS BAR COVER ASSEMBLY TO MOUNT ITEMS 11 AND 12.

3) INSTALL ITEM 11 TO ITEM 2 BEFORE CONNECTING THE LEADS. RUN THE LEADS THROUGH THE SLOTS OF ITEM 11 AND THEN INSTALL ITEM 12.

4) REFERENCE R4286305 FOR L1250 WIRE AND CABLE GROUP.

ITEM	PART NO.	QTY	DESCRIPTION
13	0810970	4	BOLT HX .375 .750 NC G8 FT
12	4286586	2	COVER SHIELD WIRE EXIT F20 SINGLE LEAD 4/0
11	4286583	2	FRAME SHIELD WIRE EXIT F20 SINGLE LEAD 4/0
10	0808476	18	BOLT HX .375 1.250 NC G8
9	0753123	22	WASHER LOCK SPR .375 .68 .09
8	4283516	6	AIR OUTLET SCREEN F20
7	4283517	18	WASHER FLAT .438 .750 .63
6	4283529	12	NUT LOCK NYL INS .875 NC
5	4283527	12	WASHER SNUBBING 22004 ENG MT
4	4001936	12	CSCR FH .875 6.500 NC
3	4081898	12	WASHER FLAT .940 1.750 .130
2	4266818	2	ESD F20 SR 6500 RPM 4100 HP-S TMBU
1	4283528	12	MOUNT RUBBER ENGINE

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INTERPRET DIM. & TOL. PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO. L1250

		DATE
DWN	ANW	12-08-16
CHK	DFO	12-08-16
ENGR	DFO	12-08-16
PROD ENGR	DFO	12-08-16
PROJ APPROVAL	DFO	12-08-16
MATL		

JOYGLOBAL

GP ESD INST L1250

SIZE D | DO NOT SCALE | DWG NO. 4290779 | REV. 01

SCALE 1:12 | WEST WT. 5273.4 lbm | SHEET 1 OF 1

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4290779		ESD INSTALLATION GROUP		
1	R4283528	12	· MOUNT, RUBBER		
2	R4266818	2	· ESD F20 SR ASSEMBLY (PAGE 6.6-6.6A)		
3	R4081898	12	· FLATWASHER, 15/16" X 1-3/4" X 1/8"		
4	R4001936	12	· CAPSCREW, 7/8"-9 X 6-1/2"		
5	R4283527	12	· FLATWASHER, 15/16" X 3-7/8" X 1/4"		
6	R4283529	12	· LOCKNUT, 7/8"-9		
7	R4283517	18	· FLATWASHER, 7/16" X 3/4" X 5/8"		
8	R4283516	6	· SCREEN, AIR OUTLET		
9	R0753123	22	· LOCKWASHER, 3/8"		
10	R0808476	18	· BOLT, 3/8"-16 X 1-1/4"		
11	R4286583	2	· FRAME SHIELD, WIRE EXIT - F20		
12	R4286586	2	· COVER SHIELD, WIRE EXIT - F20		
13	R0810970	4	· BOLT, 3/8"-16 X 3/4"		
			DRAWING, ESD INSTALLATION GROUP(429077901)		

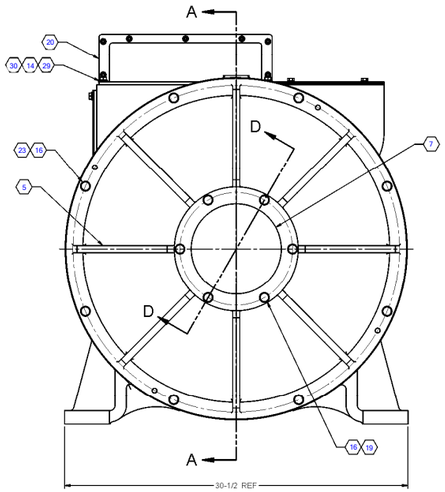
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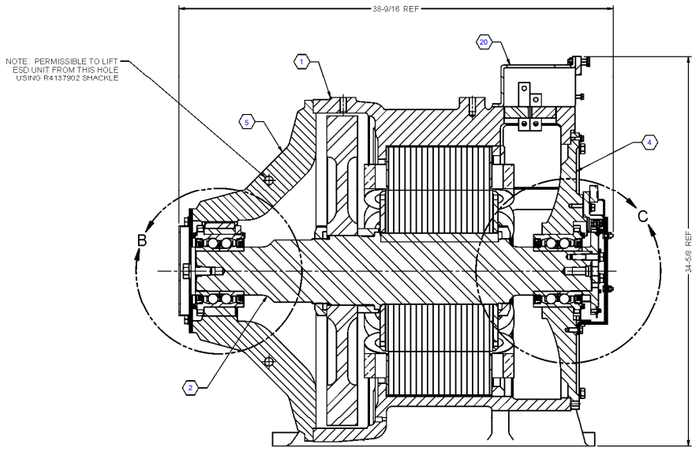
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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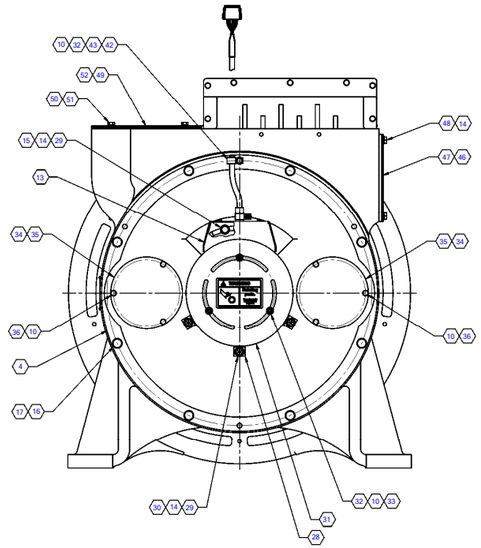
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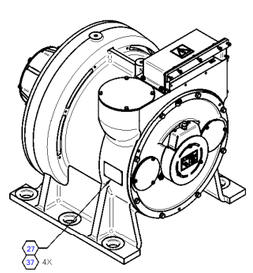
ESD F20 SR ASSEMBLY





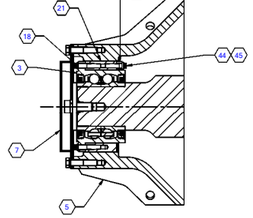
SECTION A-A





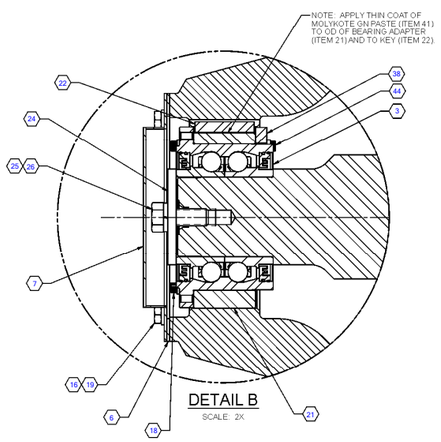
ISOMETRIC VIEW

SCALE: 1:4



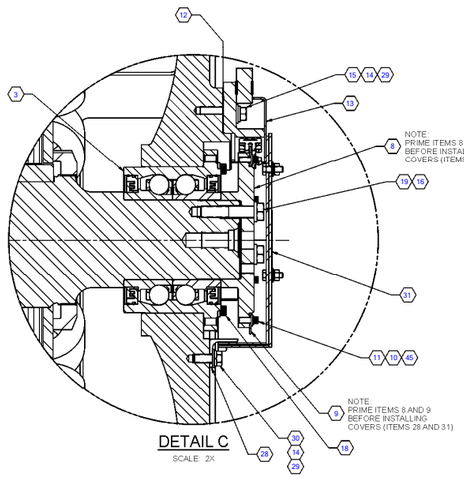
SECTION D-D

ROTATED 30° CCW



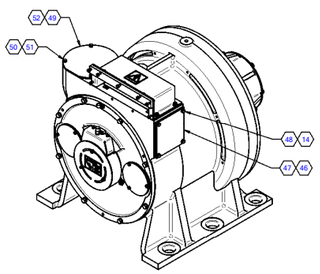
DETAIL B

SCALE: 2X



DETAIL C

SCALE: 2X



ISOMETRIC VIEW

SCALE: 1:8

BEARING INSTALLATION NOTES:

1. BEARING UNITS ARE PRE-LUBRICATED AND PERMANANTLY SEALED. DO NOT DISASSEMBLE BEARING UNITS OR ADD ADDITIONAL LUBRICANT.
2. WHEN INSTALLING BEARINGS INTO HOUSINGS, PRESS ONLY ON OUTER RACES OF BEARINGS.
3. WHEN INSTALLING BEARINGS ONTO SHAFT, PRESS ONLY ON INNER RACES OF BEARINGS. REF R4286594 INSTALLATION TOOL.
4. PRESS BEARINGS ONTO SHAFT WITH HYDRAULIC CYLINDER. VERIFY PRESSURE GAGE SPIKES TO 10 TONS TO ENSURE BEARING IS FULLY PRESSED AGAINST SHAFT SHOULDER.
5. HEAT OUTER RETAINER (ITEM 8) TO INSTALL ON SHAFT AND PRESS WITH HYDRAULIC CYLINDER TO 10 TONS. LEAVE LOAD ON CYLINDER UNTIL PART COOLS.
6. AFTER PRESS IS REMOVED, IMMEDIATELY INSTALL RETAINER PLATE AND TORQUE BOLTS.

ASSEMBLY NOTES:

1. ALL FASTENERS TO BE GRADE 8. LUBRICATE FASTENERS WITH SAE 30 WT OIL ON THE THREAD AND UNDER THE HEAD. TORQUE TO GRADE 8 SPEC.
2. REFERENCE DRAWING 4266664 FOR RPT ALIGNMENT PROCEDURE.

REF. AIR EXIT PARTS FOR USE ON ESD INSTALLATIONS
- OUTLET AIR SCREEN R4283516
- OUTLET SCREEN STAND-OFF R4283517
- GASKET AIR OUTLET R4283518
- COVER AIR OUTLET R4283519

REF. AIR INLET PARTS
- GASKET R4285166
- SOLID COVER R4285169
- 6 INCH INLET R4285170
- 8 INCH INLET R4285171
- INLET SCREEN R4283515

REF. LEAD EXIT SHIELDS ON ESD INSTALLATIONS

LEAD WIRE/SIZE	SINGLE 1/0 OR 2/0	DOUBLE 1/0 OR 2/0	SINGLE 4/0	DOUBLE 4/0
FRAME SHIELD	R4286678	R4286679	R4286583	R4286584
COVER SHIELD	R4286680	R4286681	R4286586	R4286587

ITEM	PART NO	QTY	DESCRIPTION	ITEM	PART NO	QTY	DESCRIPTION
52	4285166	1	GASKET AIR INLET F20	28	0021644	1	BOLT HX .750 2.000 NC
51	0988144	4	BOLT HX .313 .750 NC G8 FT	25	0021542	1	WASHER LOCK SPR .750 1.27 .19
50	0254174	4	WASHER LOCK SPR .313 .523 .59 .08	24	4086367	1	WASHER FLAT .750 4.25 .38
49	4285169	1	COVER F20 AIR INLET	23	4009754	8	BOLT HX .500 3.00 NC G8
48	0810970	4	BOLT HX .375 .750 NC G8 FT	22	4281879	1	KEY SQ .50 2.625
47	4286618	1	COVER SIDE F20	21	4286610	1	BEARING ADAPTER F20
46	4286617	1	GASKET SIDE F20	20	4285159	1	COVER ASSY BUSS BAR F20
45	0459283	A/R	THREAD COMPOUND LOCTITE #2760	19	4102793	9	BOLT HX .500 2.50 NC G8
44	4001836	2	CSCR FH .375 1.500 NC	18	4001838	12	CSCR FH .375 2.000 NC
43	0812278	1	BOLT HEX .250 .63 NC G8 FT	17	0824790	8	BOLT HX .500 1.750 NC G8
42	4257612	1	CLAMP CABLE INSL .63 .281	16	0801181	25	WASHER LOCK SPR .500 .873 .125
41	1530633	A/R	LUBRICANT, MOLYKOTE GN PASTE	15	4009840	2	BOLT HX .375 1.500 NC G8
40	4251577	BOM	PRIMER GRAY	14	0753123	13	WASHER LOCK SPR .375 .68 .09
39	4214060	BOM	PAINT RAVEN BLACK Q/DRY ENAMEL	13	4262221	1	ASY CARRIER RPT B40
38	4286613	1	KEY RETAINER PLATE	12	4262230	1	SHIM SET CARRIER RPT B40 .062
37	4032268	4	DRIVE SCREW, #2 X 3/16	11	4001802	6	CSCR FH .250 .625 NC G8 Ft
36	0195716	6	BOLT HX .250 .875 NC G8 FT	10	0213584	16	WASHER LOCK SPR .25 .49 .06
35	4280923	2	COVER AIR INLET	9	4262229	1	SHUTTER RPT 12/8 SR
34	4280922	2	GASKET AIR INLET	8	4286612	1	RETAINER BRG RPT F20
33	4012935	3	NUT HEX .250 NC G8 PL	7	4286615	1	COVER NLE F20 TMBU
32	4010923	4	WASHER FLAT .250 .63 .065	6	4285108	1	GASKET COVER F20
31	4283514	1	ROTATING COVER	5	4286608	1	ENDBELL F20 NLE TMBU
30	0810971	7	BOLT HX .375 1.000 NC G8 FT	4	4286609	1	ENDBELL LE F20 TMBU
29	0808221	9	WASHER FLAT .375 .81 .08	3	4286611	2	BRG AC ASY TMBU HYBRID F20
28	4283511	1	STATIONARY COVER	2	4286607	1	ROTOR F20 TMBU
27	4283502	1	NAME PLATE F20	1	4285172	1	S&W F20 ESD

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1660.00

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS 1.64 X 45°
- YIELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON CONTRACT NO: 429-0779

DWN	D. BRUMLEY	03-16-16
CHK	CFO	03-30-16
ENGR	CFO	03-30-16
PROD ENGR	CFO	03-30-16
PROJ APPROVAL	CFO	03-30-16
MAT'L		

JOY GLOBAL

ESD F20 SR
6500 RPM 4100 HP-S TMBU

SIZE: E | DO NOT SCALE | DWG NO: 4266818 | REV: 04

SCALE: 1:4 | WEIGHT: 2610.5 lbm | SHEET: 1 OF 1

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4266818		ESD F20 SR, 6500 RPM 4100 HP-S TMBU		8/6/19
1	R4285172	1	· STATOR AND WINDING, ESD F20		
2	R4286607	1	· ROTOR ASSEMBLY, F20 - TMBU		
3	R4286611	2	· BEARING, ANGULAR CONTACT SET - TMBU		
4	R4286609	1	· ENDBELL, LEAD END - F20 - TMBU		
5	R4286608	1	· ENDBELL, F20 - NON LEAD END - TMBU		
6	R4285108	1	· GASKET, COVER - F20		
7	R4286615	1	· COVER, F20 - NON LEAD END - TMBU		
8	R4286612	1	· RETAINER, BEARING - RPT - F20		
9	R4262229	1	· SHUTTER, RPT 12/8 SR		
10	R0213584	16	· LOCKWASHER, 1/4"		
11	R4001802	6	· CAPSCREW, 1/4"-20 X 5/8"		
12	R4262230	1	· SHIM PACK, RPT CARRIER - B40		
13	R4262221	1	· CARRIER ASSEMBLY, RPT - B40		
14	R0753123	13	· LOCKWASHER, 3/8"		
15	R4009640	2	· BOLT, 3/8"-16 X 1-1/4"		
16	R0801181	25	· LOCKWASHER, 1/2"		
17	R0824790	8	· BOLT, 1/2"-13 X 1-3/4"		
18	R4001838	12	· CAPSCREW, 3/8"-16 X 2"		
19	R4102793	9	· BOLT, 1/2"-13 X 2-1/2"		
20	R4285159	1	· COVER ASSEMBLY, BUS BAR - G40/B20V		8/6/19
21	R4286610	1	· ADAPTER, BEARING - F20		
22	R4281879	1	· KEY, SQUARE - 1/2" X 2-5/8"		
23	R4009754	8	· BOLT, 1/2"-13 X 3"		
24	R4086367	1	· FLATWASHER, 3/4" X 4-1/4" X 3/8"		
25	R0021542	1	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
26	R0021644	1	· BOLT, 3/4"-10 X 2"		
27	R4283502	1	· PLATE, NAME - F20		
28	R4283511	1	· COVER, STATIONARY		
29	R0808221	9	· FLATWASHER, 3/8"		
30	R0810971	7	· BOLT, 3/8"-16 X 1"		
31	R4283514	1	· COVER, ROTATING		
32	R4010923	4	· FLATWASHER, 1/4"		
33	R4012935	3	· NUT, 1/4"-20		
34	R4280922	2	· GASKET, AIR INLET		
35	R4280923	2	· COVER, AIR INLET		
36	R0195716	6	· BOLT, 1/4"-20 x 7/8"		
37	R4032268	1	· SCREW, DRIVE - #2 X 3/16"		
38	R4286613	1	· KEY, RETAINER PLATE		
39	R4214060	REF	· PAINT, RAVEN BLACK - QUICK DRY ENAMEL		
40	R4251577	REF	· PRIMER, GRAY 112 - 1 GALLON		
41	R1530633	AR	· LUBRICANT, MOLYKOTE G-N PASTE		
42	R4257612	1	· CLAMP, CABLE - INSULATED, 5/8"		
43	R0812278	1	· BOLT, 1/4"-20 X 5/8"		
44	R4001836	2	· CAPSCREW, 3/8"-16 X 1-1/2"		
45	R0459283	AR	· THREAD COMPOUND, LOCTITE #2760		
46	R4286617	4	· GASKET, COVER - SIDE, F20		
47	R4286618	1	· COVER, SIDE - F20		
48	R0810970	1	· BOLT, 3/8"-16 X 3/4"		
49	R4285169	1	· COVER, AIR OUTLET - F20		
50	R0264174	4	· LOCKWASHER, 5/16"		
51	R0988144	4	· BOLT, 5/16"-18 X 3/4"		
52	R4285166	1	· GASKET, AIR OUTLET - F20		
			DRAWING, ESD F20 SR, 6500 RPM 4100 HP-S TMBU (426681804)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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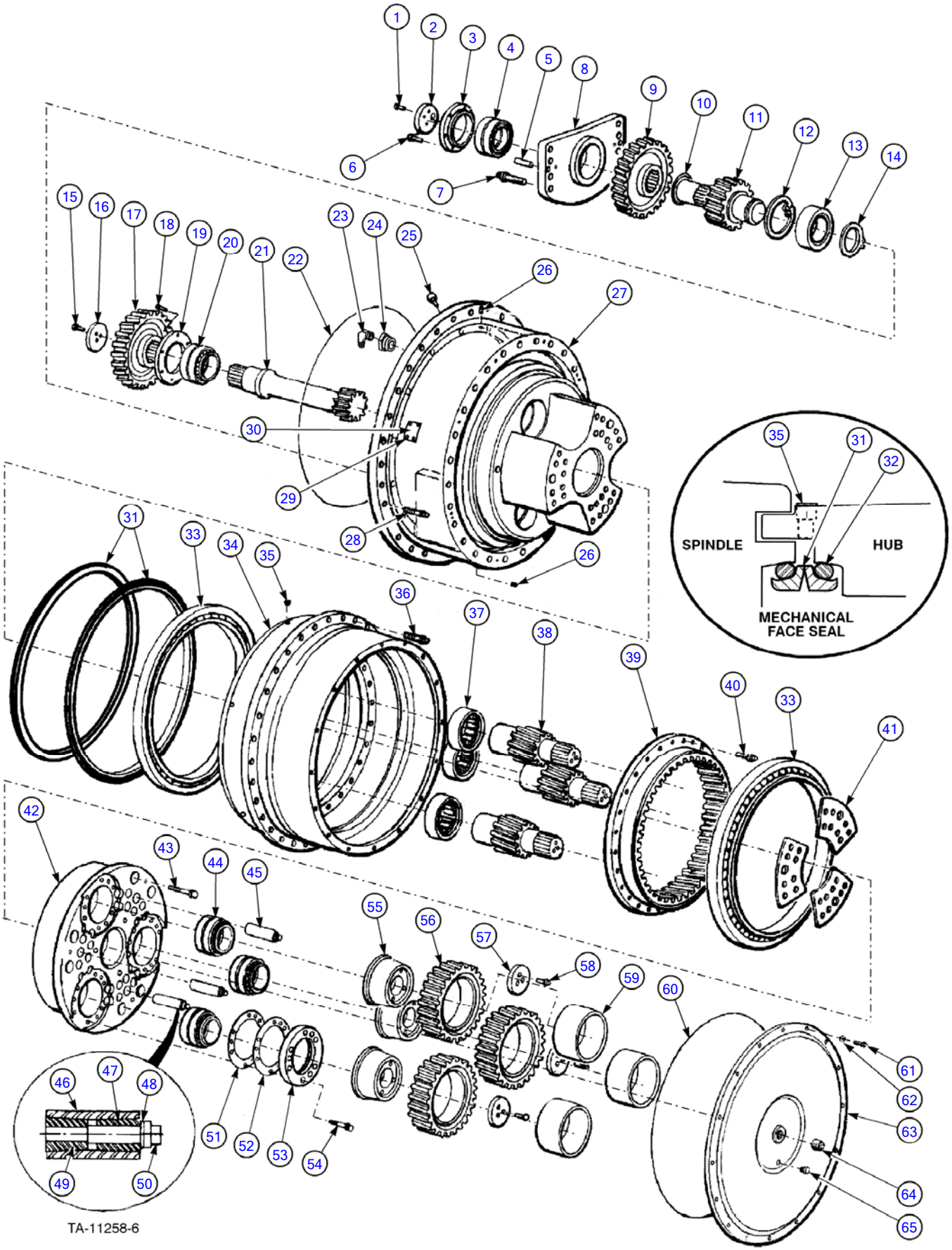
SECTION OR GROUP TITLE
DRIVER ASSEMBLY
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Continuous improvement and advancement of product design may cause changes to machines which may not have been included in this publication.
Komatsu reserves the right to make changes and improvements at any time.
To ensure the most current information, please use the Komatsu On-Line Parts Manual Database or contact your service center.
This illustrated Parts Manual is now designed primarily for electronic viewing.
It is best viewed from the DVD or the Komatsu On-Line Parts Manual Database.
In its printed paper version some items in the illustrations may appear small and the reference numbers may be difficult to read.
In a case where a number or view is unreadable you will need to view it electronically and use the zoom feature.
NOTE: Many of the parts for factory-installed optional components are found in Section 9 of the Parts Manual, which is titled MISCELLANEOUS.
It is essential to verify the optional equipment on the machine and check the parts lists in Section 9 prior to ordering parts.
Should there be questions or need for additional information concerning parts for factory-installed options, contact the Komatsu Parts Sales Department before placing an order.

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DRIVER ASSEMBLY, 51A3



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4286580		DRIVER ASSEMBLY, 51A3		
1	R4001869	4	· CAPSCREW, 1/2"-13 X 1-1/4"		
2	R4157112	1	· PLATE, RETAINER - BEARING		
3	R4157113	1	· RETAINER, BEARING - CUP		
4	R4157119	1	· BEARING ASSEMBLY, DOUBLE ROW TAPER		
5	R4132633	2	· DOWEL PIN, 1" DIA. X 1-1/2"		
6	R4001869	6	· CAPSCREW, 1/2"-13 X 1-1/4"		
7	R4001949	8	· CAPSCREW, 1"-8 X 5-1/2"		
8	N.S.S.	1	· PLATE STRUCTURE, PRIMARY (FOR SPINDLE ASSEMBLY SEE NOTE 1)		
9	R4220762	1	· GEAR, PRIMARY 1ST REDUCTION		
10	R4220777	1	· SPACER, GEAR		
11	R4220775	1	· PINION, PRIMARY 2ND REDUCTION		
12	R4161077	1	· RING, RETAINING - INTERNAL		
13	R4161059	1	· BEARING STRUCTURE, ROLLER		
14	R4128639	1	· RING, RETAINING - EXTERNAL		
15	R4002002	3	· CAPSCREW, 5/8"-18 X 1-1/2"		
16	R4184214	1	· RETAINER, HUB		
17	R4220776	1	· GEAR, PRIMARY 2ND REDUCTION		
18	R4001870	6	· CAPSCREW, 1/2"-13 X 1-1/2"		
19	R4184219	1	· RETAINER, BEARING - CUP		
20	R4286581	1	· BEARING ASSEMBLY, DOUBLE ROW TAPERED - ENHANCED		
21	R4220790	1	· PINION, MIDDLE - 13T-3P		
22	R4176283	REF	· O-RING	1	
23	R4002441	1	· ELBOW, #12 MP X 90 deg. X #12 MJ		
24	R4013950	1	· ADAPTER, 3/4" FP X 1-1/2" MP		
25	R4162499	1	· BREATHER, 1/4"-18		
26	R4213383	3	· PLUG, PIPE - 1-1/16", HEX CSK.		
27	N.S.S.	1	· SPINDLE STRUCTURE (FOR SPINDLE ASSEMBLY SEE NOTE 1)		
28	R4152660	REF	· CAPSCREW, 1"-8 X 4" - DRIVER TO AXLE HOUSING	63	
29	R0181073	4	· SCREW, DRIVE - #6 X .188		
30	R0737367	1	· NAME PLATE		
31	R4220733	1	· SEAL ASSEMBLY, MECHANICAL FACE SEAL SPINDLE		
32	R4238648	2	· · O-RING		
33	R4079484	2	· BEARING ASSEMBLY, SPINDLE		
34	R4232126	1	· HUB		
35	R4013779	6	· PLUG, PIPE - 1/4"		
36	N.P.N.	REF	· CAPSCREW (PAGE 1.14-1.14A)		
37	R4286582	3	· BEARING, STRAIGHT ROLLER - WITHOUT INNER RACE - ENHANCED		
38	R4187242	3	· PINION AND RACE ASSEMBLY, COUNTERSHAFT		
	N.P.N.	3	· · PINION, COUNTERSHAFT		
	N.P.N.	3	· · RACE, BEARING		
	R4187241	3	· · RING, RETAINING - EXTERNAL		
39	R4184077	1	· GEAR, INTERNAL - 50T-2P		
40	R4243987	46	· CAPSCREW, 1"-14 X 4"		
41	R4233660	3	· SHIM		
42	N.S.S.	1	· CARRIER, OUTER BEARING (FOR SPINDLE ASSEMBLY SEE NOTE 1)		
43	R4233789	24	· CAPSCREW, 1-1/4"-12 X 6-1/2"		
44	R4286581	3	· BEARING ASSEMBLY, DOUBLE ROW TAPERED - ENHANCED		
45	R4184324	3	· DOWEL PIN, EXPANDABLE		
46	R4184325	1	· · PIN, SPLIT - 2-1/2" O.D. X 5"		
47	R4184327	1	· · PIN, TAPERED - OUTER, 7/8"-9		
48	R0021542	1	· · LOCKWASHER, 3/4"		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
49	R4184326	1	· · PIN, TAPERED - INNER, 3/4"-16		
50	R4002116	1	· · CAPSCREW, 3/4"-16 X 4-1/2"		
51	R4220555	AR	· SHIM, BEARING - .005"	1	
52	R4220554	AR	· SHIM, BEARING - .010"	3	
53	R4220553	3	· RETAINER, BEARING		
54	R4116069	27	· CAPSCREW, 5/8"-18 X 2"		
55	R4184079	3	· HUB, COUNTERSHAFT GEAR		
56	R4220788	3	· GEAR, COUNTERSHAFT		
57	R4184214	3	· RETAINER, HUB		
58	R4002002	9	· CAPSCREW, 5/8"-18 X 1-1/2"		
59	R4184208	3	· LOCK RING, GEAR - COUNTERSHAFT		
60	R4161194	1	· O-RING, 39" I.D. - BUNA N		
61	R4001869	24	· CAPSCREW, 1/2"-13 X 1-1/4"		
62	R0080738	24	· FLATWASHER, 1/2" - COPPER		
63	R4161046	1	· COVER STRUCTURE		
64	R2000002	1	· PLUG, PIPE - 1-1/4", SQ. CSK. MAG.		
65	R0272969	1	· PLUG, PIPE - 1/4", HEX CSK.		
			NOTE 1:		
	R4232128	1	· SPINDLE ASSEMBLY CONSIST OF MATCHED SPINDLE, OUTER BEARING		
			· CARRIER AND PRIMARY PLATE STRUCTURE.		
			· INCLUDES ITEMS 5, 7, 8, 27, 42, 43, 45.		
			NOTE 2:		
		REF	· FOR DRIVER FILTRATION INFORMATION SEE PAGE 8.0-8.0A		

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L-1350-2302 PARTS MANUAL
Hydraulic And Air Operated Components

SECTION OR GROUP TITLE
FLUID POWER GROUP
SMALL O-RING KIT - 50 SERIES
DUAL CONTROL VALVE ASSEMBLY
SINGLE CONTROL VALVE ASSEMBLY
OIL COOLER CONTROL VALVE ASSEMBLY
RADIATOR - OIL COOLER AND FAN MOTOR ASSEMBLY
PROPORTIONAL AND RELIEF MANIFOLD ASSEMBLY
REAR ACCESSORY VALVE ASSEMBLY
STEER CYLINDER
STEER CYLINDER ASSEMBLY
HOIST CYLINDER ASSEMBLY
BUCKET CYLINDER ASSEMBLY WITH TUBE - L.H.
BUCKET CYLINDER ASSEMBLY WITH TUBE - R.H.
BUCKET CYLINDER ASSEMBLY
AIR SYSTEM
STEERING VALVE ASSEMBLY
BRAKE CALIPER ASSEMBLY
BRAKE ACTUATOR CYLINDER ASSEMBLY
STEERING JUNCTION VALVE ASSEMBLY
MAIN CONTROL VALVES ASSEMBLY
GEARBOX CONTROL VALVE ASSEMBLY
HYDRAULIC RESERVOIR ASSEMBLY
FRONT FRAME HYDRAULIC PANEL HARDWARE GROUP
FRONT FRAME HYDRAULIC PANEL HOSE GROUP
AIR BOX ASSEMBLY
AIR BOX HARDWARE GROUP
AIR BOX HOSE GROUP
FRONT AIR RESERVOIR ASSEMBLY
AIR DISTRIBUTION TANK ASSEMBLY
AIR BRAKE TANK ASSEMBLY
AIR KLENZ TANK ASSEMBLY
DRIVER FILTRATION MOTOR/PUMP ASSEMBLY
JUNCTION VALVE ASSEMBLY
FAN MOTOR MANIFOLD GROUP
PROPORTIONAL VALVE SUB-ASSEMBLY
AIR HORN KIT
FRONT RELAY VALVE ASSEMBLY
REAR RELAY VALVE ASSEMBLY
REAR FRAME TRANSDUCER ASSEMBLY
BUCKET CYLINDER HOSE GROUP - HIGH LIFT
FRONT FRAME MAIN HARDWARE GROUP
FRONT FRAME PRESSURE AND RETURN MANIFOLD GROUP
SINGLE FLOAT VALVE ASSEMBLY - RIGHT HAND
SINGLE FLOAT VALVE
SINGLE FLOAT VALVE ASSEMBLY - LEFT HAND
CROSSOVER PIPE ASSEMBLY - HOIST BASE
CROSSOVER PIPE ASSEMBLY - HOIST ROD
CROSSOVER PIPE ASSEMBLY - BUCKET BASE
CROSSOVER PIPE ASSEMBLY - BUCKET ROD
FRONT FRAME MAIN HOSE GROUP
FRONT FRAME HYDRAULIC PILOT HARDWARE GROUP
CYLINDER PRESSURE TRANSDUCER ASSEMBLY
FRONT FRAME HYDRAULIC PILOT HOSE GROUP
FRONT FRAME DRIVER FILTRATION HARDWARE GROUP
SUCTION FILTER ASSEMBLY
DRIVER FILTER ASSEMBLY
FRONT FRAME DRIVER FILTRATION HOSE GROUP
PIVOT LOOP HOSE GROUP
HYDRAULIC RESERVOIR HOSE GROUP

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SECTION OR GROUP TITLE
HYDRAULIC RESERVOIR INSTALLATION HARDWARE GROUP
UNDER POWER UNIT HARDWARE GROUP
OIL COOLER VALVE ASSEMBLY
UNDER POWER UNIT HOSE GROUP
HYDRAULIC PUMP INSTALLATION HARDWARE GROUP
PUMP PRESSURE TRANSDUCER ASSEMBLY
HYDRAULIC PUMP INSTALLATION HOSE GROUP
PUMP SUCTION GROUP
UNDER GEARBOX HARDWARE GROUP
STEERING VALVE SUB-ASSEMBLY
UNDER GEARBOX HOSE GROUP
STEER CYLINDER HARDWARE GROUP
STEER CYLINDER HOSE GROUP
AFTER GEARBOX HARDWARE GROUP
REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP
AFTER GEARBOX HOSE GROUP
MOTOR DRIVER SUB-ASSEMBLY HOSE GROUP
REAR DRIVER HOSE GROUP
REAR FRAME DRIVER FILTRATION HARDWARE GROUP
RADIATOR HARDWARE GROUP
RADIATOR HOSE GROUP
RADIATOR SUB-ASSEMBLY HOSE GROUP
FRONT FRAME AIR SUPPLY HARDWARE GROUP
FRONT FRAME AIR SUPPLY HOSE GROUP
FRONT BRAKE HARDWARE GROUP
FRONT PRE BRAKE HOSE GROUP
FRONT POST BRAKE HOSE GROUP
PIVOT LOOP AIR HARDWARE GROUP
PIVOT LOOP AIR HOSE GROUP
AFTER GEARBOX AIR HARDWARE GROUP
AIR DRYER & GOVERNOR ASSEMBLY
AFTER GEARBOX AIR HOSE GROUP
UNDER GEARBOX AIR HARDWARE GROUP
UNDER GEARBOX AIR HOSE GROUP
REAR FRAME AIR SUPPLY HARDWARE GROUP
REAR FRAME AIR SUPPLY HOSE GROUP
REAR BRAKE HARDWARE GROUP
REAR PRE BRAKE HOSE GROUP
REAR POST BRAKE HOSE GROUP
AIR RESTRICTION HARDWARE GROUP
AIR RESTRICTION HOSE GROUP
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Continuous improvement and advancement of product design may cause changes to machines which may not have been included in this publication.
Komatsu reserves the right to make changes and improvements at any time.
To ensure the most current information, please use the Komatsu On-Line Parts Manual Database or contact your service center.
This illustrated Parts Manual is now designed primarily for electronic viewing.
It is best viewed from the DVD or the Komatsu On-Line Parts Manual Database.
In its printed paper version some items in the illustrations may appear small and the reference numbers may be difficult to read.
In a case where a number or view is unreadable you will need to view it electronically and use the zoom feature.

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SECTION OR GROUP TITLE
NOTE: Many of the parts for factory-installed optional components are found in Section 9 of the Parts Manual, which is titled MISCELLANEOUS.
It is essential to verify the optional equipment on the machine and check the parts lists in Section 9 prior to ordering parts.
Should there be questions or need for additional information concerning parts for factory-installed options, contact the Komatsu Parts Sales Department before placing an order.

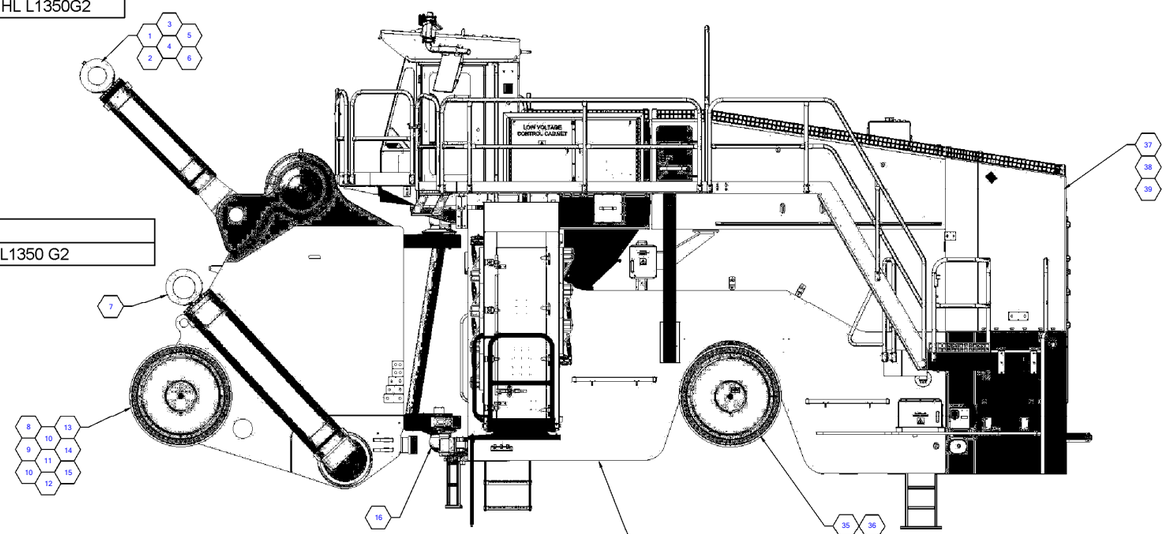
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FLUID POWER GROUP

ITEM	PART NO.	DESCRIPTION
1	428-0265	ASSY BUCKET CYL STD L1350G2 R
2	428-0266	ASSY BUCKET CYL STD L1350G2 L
3	428-0268	ASSY BUCKET CYL HL1350G2 R
4	428-0269	ASSY BUCKET CYL HL1350G2 L
5	428-0226	GP HOSE BKT CYL SL L1350 G2
6	428-0227	GP HOSE BKT CYL HL L1350G2

ITEM	PART NO.	DESCRIPTION
37	428-9633	GP HDW RADIATOR L1250 G3
38	428-9634	GP HOSE RADIATOR L1250 G3
39	428-0221	GP HOSE RDTR SUB-ASSY L1350 G2

ITEM	PART NO.	DESCRIPTION
7	427-1125	GP HOIST CYL L1350 G2



ITEM	PART NO.	DESCRIPTION
8	428-8368	GP HDW HYD MAIN FF L1250 G3
9	428-8369	GP HOSE HYD MAIN FF L1250 G3
10	427-4767	GP HW HYD PANEL L13-2350 G2
11	427-0966	GP HOSE HYD PANEL L13-2350 G2
12	427-8037	GP HW PILOT/ACC FF L1350 G2
13	427-8038	GP HOSE PILOT/ACC FF L1350 G2
14	428-8448	GP HW DRIVER FILTER FF L1250G3
15	428-8450	GP HOSE DRVR FLTR FF L1250G3

ITEM	PART NO.	DESCRIPTION
16	427-8032	GP HOSE PIVOT LOOP L1350 G2

ITEM	PART NO.	DESCRIPTION
35	428-8449	GP HDW DRIVER FILTER RF L1250G3
36	428-0220	GP HOSE REAR DRIVER L1350 G2

ITEM	PART NO.	DESCRIPTION
17	428-0201	GP HDW HYD RES L1350 G2
18	428-0202	GP HOSE HYD RES L1350 G2
19	428-0207	GP HW HYD RES INSTL L1350 G2
20	428-9625	GP HDW HYD PUMP INST L1250 G3
21	428-9626	GP HOSE HYD PUMP INST L1250 G3
22	428-9627	GP HDW AFTER GBOX L1250G3
23	428-9628	GP HOSE AFTER GBOX L1250G3
24	428-9629	GP HDW UNDER GBOX L1250G3
25	428-9630	GP HOSE UNDER GBOX L1250G3
26	428-9631	GP HDW UNDER PWR UNIT L1250 G3
27	428-9632	GP HOSE UNDER PWR UNIT L1250 G3
28	427-7960	GP HW STR CYL L1850 G2
29	427-7961	GP HOSE STR CYL L1850 G2
30	428-8375	GP INSTL HYD PUMP GBOX
31	428-8366	ASSY HYD PUMP GBOX L1250 G3
32	428-8367	GP PUMP SUCTION L1250 G3
33	428-0224	GP HW AUX STEER L1350 G2
34	428-0225	GP HOSE AUX STEER L1350 G2

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UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES 3 PLACES AFTER DECIMAL
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, XX.XX DECIMAL ±.03, XXX. DECIMAL ±.005
- MACHINED CORNERS: SIM X 45°
- YIELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL

THIRD ANGLE PROJECTION

FIRST USED ON CONTRACT NO:

		DATE
DWN	mduke	08-26-2016
CHK	JBD	09-26-16
ENGR		
PROD ENGR	JBD	09-26-16
PROJ APPROVAL		
MATL		

LeTourneau, Inc.

REF FLUID PWR DIA L1250

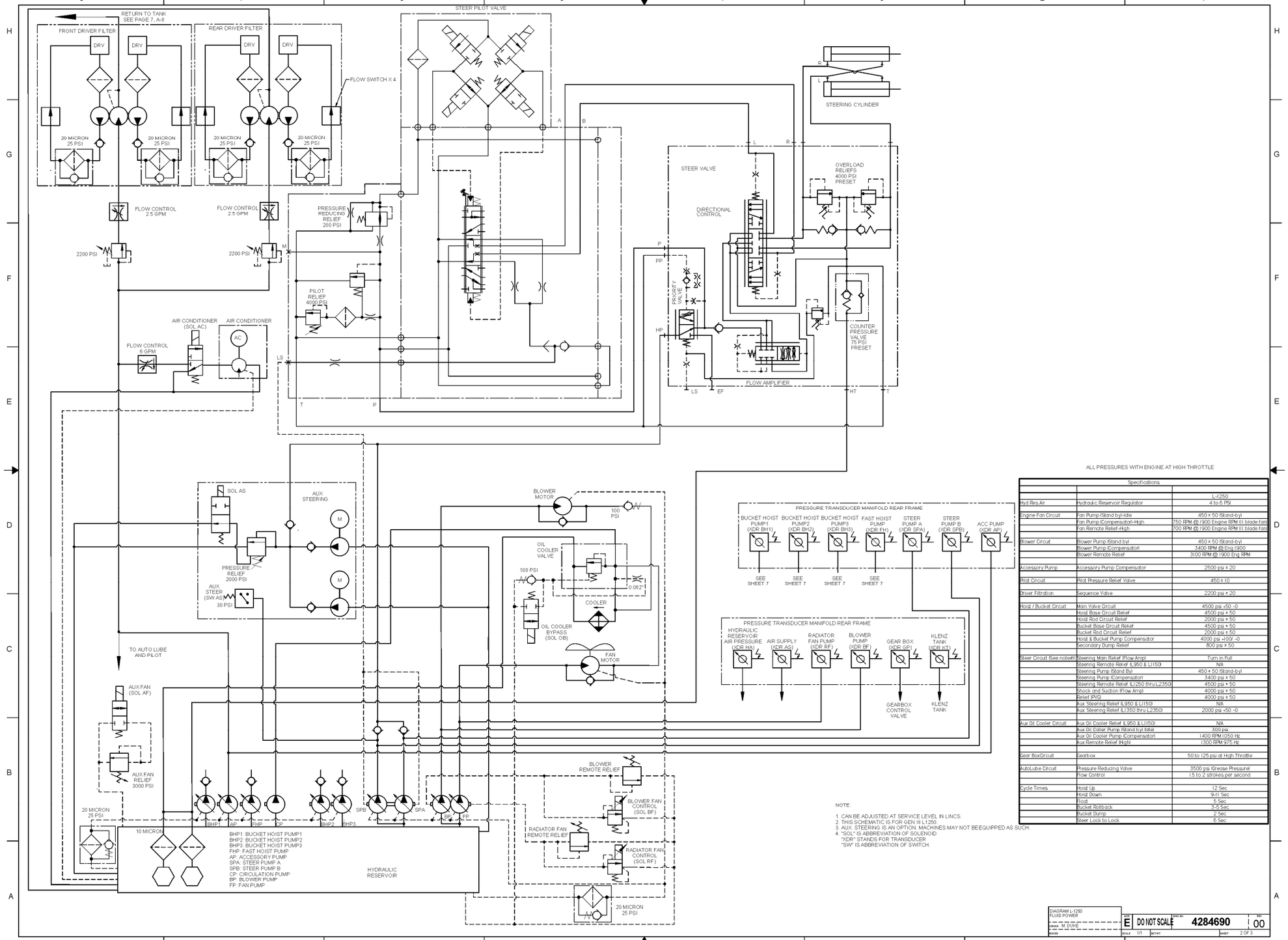
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FLUID POWER GROUP



ALL PRESSURES WITH ENGINE AT HIGH THROTTLE

Specifications		
		L-L1250
Hyd Res Air	Hydraulic Reservoir Regulator	4 to 6 PSI
Engine Fan Circuit	Fan Pump (Stand by)-Idle	450 x 50 (Stand-by)
	Fan Pump (Compensator)-High	750 RPM @ 1900 Engine RPM (11 blade fan)
	Fan Remote Relief-High	700 RPM @ 1900 Engine RPM (11 blade fan)
Blower Circuit	Blower Pump (Stand by)	450 x 50 (Stand-by)
	Blower Pump (Compensator)	3400 RPM @ Eng 1900
	Blower Remote Relief	3100 RPM @ 1900 Eng RPM
Accessory Pump	Accessory Pump Compensator	2500 psi ± 20
Pilot Circuit	Pilot Pressure Relief Valve	450 ± 10
Driver Filtration	Sequence Valve	2200 psi ± 20
Hoist / Bucket Circuit	Main Valve Circuit	4500 psi +50 -0
	Hoist Base Circuit Relief	4500 psi ± 50
	Hoist Rod Circuit Relief	2000 psi ± 50
	Bucket Base Circuit Relief	4500 psi ± 50
	Bucket Rod Circuit Relief	2000 psi ± 50
	Hoist & Bucket Pump Compensator	4000 psi +100/ -0
	Secondary Dump Relief	800 psi ± 50
Steer Circuit (See note#1)	Steering Main Relief (Flow Amp)	Turn in Full
	Steering Remote Relief (L950 & L1150)	N/A
	Steering Pump (Stand By)	450 x 50 (Stand-by)
	Steering Pump (Compensator)	3400 psi ± 50
	Steering Remote Relief (L1250 thru L2350)	4500 psi ± 50
	Shock and Suction (Flow Amp)	4000 psi ± 50
	Relief (PVG)	4000 psi ± 50
	Aux Steering Relief (L950 & L1150)	N/A
	Aux Steering Relief (L1350 thru L2350)	2000 psi +50 -0
Aux Oil Cooler Circuit	Aux Oil Cooler Relief (L950 & L1150)	N/A
	Aux Oil Cooler Pump (Stand by) Relief	300 psi
	Aux Oil Cooler Pump (Compensator)	1400 RPM/1050 Hz
	Aux Remote Relief (High)	1300 RPM/975 Hz
Gear Box Circuit	Gearbox	50 to 125 psi at High Throttle
AutoLube Circuit	Pressure Reducing Valve	3500 psi (Grease Pressure)
	Flow Control	1.5 to 2 strokes per second
Cycle Times	Hoist Up	12 Sec
	Hoist Down	9-11 Sec
	Float	5 Sec
	Bucket Rollback	3-5 Sec
	Bucket Dump	2 Sec
	Steer Lock to Lock	6 Sec

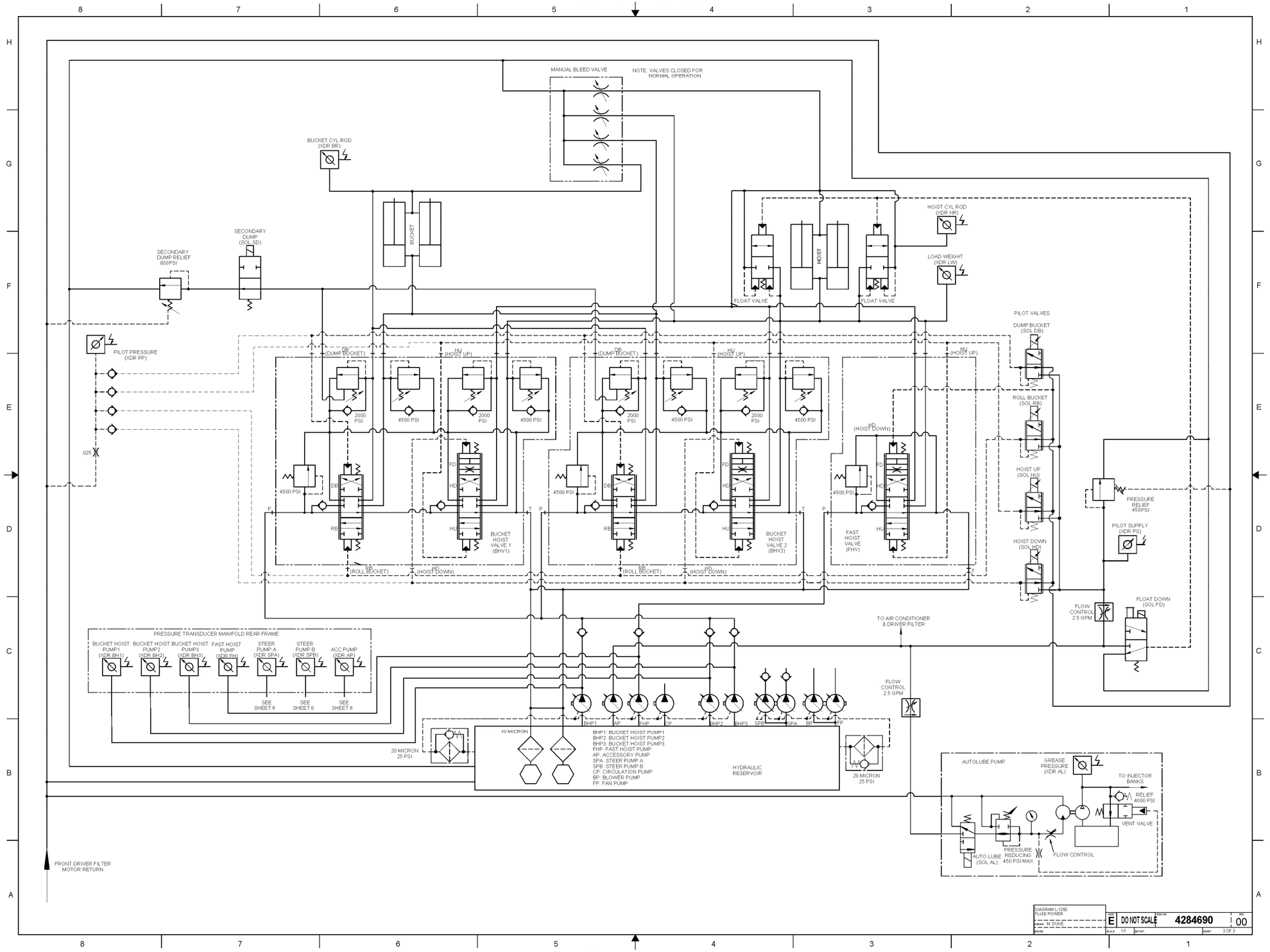
NOTE:
1. CAN BE ADJUSTED AT SERVICE LEVEL IN LINCS.
2. THIS SCHEMATIC IS FOR GEN III L1250.
3. AUX. STEERING IS AN OPTION. MACHINES MAY NOT BE EQUIPPED AS SUCH.
4. "SOL" IS ABBREVIATION OF SOLENOID.
   "XDR" STANDS FOR TRANSDUCER
   "SW" IS ABBREVIATION OF SWITCH.

DIAGRAM L1250 FLUID POWER
DRAWN M.DUKE
ISSUED
SIZE E | DO NOT SCALE | DWG NO. 4284690 | REV 00
SCALE 1/1 SHEET SHEET 2 OF 3

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FLUID POWER GROUP



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289621	1	FLUID POWER GROUP		
1	R4280265	1	· BUCKET CYLINDER ASSEMBLY - STANDARD LIFT, RIGHT HAND		
	R4280264	1	· · BUCKET CYLINDER ASSEMBLY - STANDARD LIFT (PAGE 8.15-8.15A)		
	R4237960	1	· · PIPE STRUCTURE, BUCKET CYLINDER - R.H.		
2	R4280266	1	· BUCKET CYLINDER ASSEMBLY - STANDARD LIFT, LEFT HAND		
	R4280264	1	· · BUCKET CYLINDER ASSEMBLY - STANDARD LIFT (PAGE 8.15-8.15A)		
	R4237959	1	· · PIPE STRUCTURE, BUCKET CYLINDER - L.H.		
3	R4280268	1	· BUCKET CYLINDER ASSEMBLY - HIGH LIFT, RIGHT HAND		
	R4280267	1	· · BUCKET CYLINDER ASSEMBLY - HIGH LIFT (PAGE 8.15-8.15A)		
	R4237960	1	· · PIPE STRUCTURE, BUCKET CYLINDER - R.H.		
4	R4280269	1	· BUCKET CYLINDER ASSEMBLY - HIGH LIFT, LEFT HAND		
	R4280267	1	· · BUCKET CYLINDER ASSEMBLY - HIGH LIFT (PAGE 8.15-8.15A)		
	R4237959	1	· · PIPE STRUCTURE, BUCKET CYLINDER - L.H.		
5	R4280226	1	· BUCKET CYLINDER HOSE GROUP - STANDARD LIFT (PAGE 8.56-8.56A)		
6	R4280227	1	· BUCKET CYLINDER HOSE GROUP - HIGH LIFT (PAGE 8.57-8.57A)		
7	R4271125	1	· HOIST CYLINDER GROUP		
	R4271114	1	· · HOIST CYLINDER ASSEMBLY (PAGE 8.14-8.14A)		
8	R4288368	1	· MAIN FRONT FRAME HARDWARE GROUP (PAGE 8.58-8.58A)		
	R4252628	1	· · PRESSURE AND RETURN MANIFOLD FRONT FRAME GROUP (PAGE 8.59-8.59A)		
	R4278026	1	· · MAIN VALVES ASSEMBLY (PAGE 8.25-8.25A)		
	R4273461	1	· · SINGLE FLOAT VALVE ASSEMBLY - RIGHT HAND (PAGE 8.60-8.60A)		
	R4244894	1	· · · SINGLE FLOAT VALVE (PAGE 8.61-8.61A)		
	R4273462	1	· · SINGLE FLOAT VALVE ASSEMBLY - LEFT HAND (PAGE 8.62-8.62A)		
	R4244894	1	· · · SINGLE FLOAT VALVE (PAGE 8.61-8.61A)		
	R4278027	1	· · CROSSOVER PIPE ASSEMBLY - HOIST BASE (PAGE 8.63-8.63A)		
	R4278028	1	· · CROSSOVER PIPE ASSEMBLY - HOIST ROD (PAGE 8.64-8.64A)		
	R4278029	1	· · CROSSOVER PIPE ASSEMBLY - BUCKET BASE (PAGE 8.65-8.65A)		
	R4278030	1	· · CROSSOVER PIPE ASSEMBLY - BUCKET ROD (PAGE 8.66-8.66A)		
9	R4288369	1	· MAIN FRONT FRAME HOSE GROUP (PAGE 8.67-8.67A)		
10	R4274767	1	· FRONT FRAME HYDRAULIC PANEL ASSEMBLY (PAGE 8.39-8.39A)		
11	R4270966	1	· FRONT FRAME HYDRAULIC PANEL HOSE GROUP (PAGE 8.39-8.39B)		
12	R4278037	1	· FRONT FRAME HYDRAULIC PILOT HARDWARE GROUP (PAGE 8.68-8.68A)		
	R4270955	1	· · CYLINDER PRESSURE TRANSDUCER ASSEMBLY (PAGE 8.69-8.69A)		
13	R4278038	1	· FRONT FRAME HYDRAULIC PILOT HOSE GROUP (PAGE 8.70-8.70A)		
14	R4288448	1	· FRONT FRAME DRIVER FILTRATION HARDWARE GROUP (PAGE 8.71-8.71A)		
	R4254486	1	· · SUCTION FILTER ASSEMBLY (PAGE 8.72-8.72A)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288447	1	· · DRIVER FILTER ASSEMBLY (PAGE 8.73-8.73A)		
	R4273488	1	· · DRIVER FILTRATION MOTOR/PUMP ASSEMBLY (PAGE 8.48-8.48B)		
15	R4288450	1	· FRONT FRAME DRIVER FILTRATION HOSE GROUP (PAGE 8.74-8.74A)		
16	R4278032	1	· PIVOT LOOP HOSE GROUP (PAGE 8.75-8.75A)		
17	R4280201	1	· HYDRAULIC RESERVOIR HARDWARE GROUP (PAGE 8.35-8.35A)		
18	R4280202	1	· HYDRAULIC RESERVOIR HOSE GROUP (PAGE 8.76-8.76A)		
19	R4280207	1	· HYDRAULIC RESERVOIR INSTALLATION HARDWARE GROUP (PAGE 8.77-8.77A)		
20	R4289625	1	· HYDRAULIC PUMP INSTALLATION HARDWARE GROUP (PAGE 8.81-8.81A)		
	R4273362	1	· · PROPORTIONAL AND RELIEF MANIFOLD ASSEMBLY (PAGE 8.7-8.7A)		
	R4270954	1	· · PUMP PRESSURE TRANSDUCER ASSEMBLY (PAGE 8.82-8.82A)		
	R4291708	3	· · FILTER ASSEMBLY, LOW PRESSURE		
	R4244991	3	· · · ELEMENT, FILTER		
	R4291750	3	· · · SEAL KIT		
21	R4289626	1	· HYDRAULIC PUMP INSTALLATION HOSE GROUP (PAGE 8.83-8.83A)		
	R4280208	1	· PUMP SUCTION GROUP (PAGE 8.84-8.84A)		
22	R4289627	1	· AFTER GEARBOX HARDWARE GROUP (PAGE 8.92-8.92A)		
	R4288509	1	· · PRESSURE AND RETURN MANIFOLD REAR FRAME GROUP (PAGE 8.93-8.93A)		
	R4273460	1	· · REAR ACCESSORY VALVE ASSEMBLY (PAGE 8.9-8.9A)		
	R4254486	1	· · SUCTION FILTER ASSEMBLY (PAGE 8.72-8.72A)		
23	R4289628	1	· AFTER GEARBOX HOSE GROUP (PAGE 8.94-8.94A)		
24	R4289629	1	· UNDER GEARBOX HARDWARE GROUP (PAGE 8.85-8.85A)		
	R4290580	1	· · PROPORTIONAL VALVE SUB-ASSEMBLY (PAGE 8.51-8.51A)		
	R4275775	1	· · STEERING VALVE SUB-ASSEMBLY (PAGE 8.86-8.86A)		
	R4270856	1	· · · STEERING VALVE ASSEMBLY (PAGE 8.20-8.20A)		
	R4275773	1	· · JUNCTION VALVE ASSEMBLY (PAGE 8.49-8.49A)		
	R4248914	1	· · · STEERING JUNCTION VALVE ASSEMBLY (PAGE 8.24-8.24A)		
25	R4289630	1	· UNDER GEARBOX HOSE GROUP (PAGE 8.87-8.87A)		
26	R4289631	1	· UNDER POWER UNIT HARDWARE GROUP (PAGE 8.78-8.78A)		
	R4278380	1	· · FAN MOTOR MANIFOLD GROUP (PAGE 8.50-8.50A)		
	R4270959	1	· · OIL COOLER VALVE ASSEMBLY (PAGE 8.79-8.79A)		
	R4277635	1	· · · OIL COOLER VALVE ASSEMBLY (PAGE 8.5-8.5A)		
27	R4289632	1	· UNDER POWER UNIT HOSE GROUP (PAGE 8.80-8.80A)		
28	R4277960	1	· STEER CYLINDER HARDWARE GROUP (PAGE 8.90-8.90A)		
29	R4277961	1	· STEER CYLINDER HOSE GROUP (PAGE 8.91-8.91A)		
30	R4288375	1	· GEARBOX INSTALLATION GROUP (PAGE 2.9-2.9F)		
31	R4288366	1	· GEARBOX AND PUMPS (PAGE 2.9-2.9A)		
32	R4288367	1	· PUMP SUCTION GROUP (PAGE 8.84-8.84A)		
	R4266371	1	· AUXILIARY STEERING GROUP		
33	R4280224	1	· AUXILIARY STEERING HARDWARE GROUP (PAGE 8.88-8.88A)		
34	R4280225	1	· AUXILIARY STEERING HOSE GROUP (PAGE 8.89-8.89A)		
35	R4288449	1	· REAR FRAME DRIVER FILTRATION HARDWARE GROUP (PAGE 8.97-8.97A)		
	R4273488	1	· · DRIVER FILTRATION MOTOR/PUMP ASSEMBLY (PAGE 8.48-8.48B)		
	R4288447	1	· · DRIVER FLOW SWITCH ASSEMBLY (PAGE 8.73-8.73A)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4254486	1	· · SUCTION FILTER ASSEMBLY (PAGE 8.72-8.72A)		
36	R4280220	1	· REAR DRIVER HOSE GROUP (PAGE 8.96-8.96A)		
37	R4289633	1	· RADIATOR HARDWARE GROUP (PAGE 8.98-8.98A)		
38	R4289634	1	· RADIATOR HOSE GROUP (PAGE 8.99-8.99A)		
39	R4280221	1	· RADIATOR SUB-ASSEMBLY HOSE GROUP (PAGE 8.100-8.100A)		
	R4271196	1	AUXILIARY OIL COOLER KIT (PAGE 8.101-8.101A)		
	R4274504	1	AUXILIARY OIL COOLER HARDWARE GROUP (PAGE 8.104-8.104A)		
	R4273438	1	AUXILIARY OIL COOLER FRAME AND PANELS ASSEMBLY (PAGE 8.105-8.105A)		
	R4270969	1	AUXILIARY OIL COOLER HOSE GROUP (PAGE 8.106-8.106A)		
	R4280222	1	AUXILIARY OIL COOLER SYSTEM HOSE GROUP (PAGE 8.103-8.103A)		
	R4280223	1	AUXILIARY OIL COOLER SYSTEM HARDWARE GROUP (PAGE 8.102-8.102A)		
			DRAWING, FLUID POWER DIAGRAM (R428469000)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4252726		SMALL O-RING KIT - 50 SERIES		
1	R0828984	1	· O-RING, .188 X 6.119, BUNA N - USE: FUEL SYSTEM		
2	R4002280	4	· O-RING, .078 X .47, BUNA N - USE: FOR R4219191 TEST BLOCK ADAPTER		
3	R4002282	4	· O-RING, .097 X .76, BUNA N - USE: FOR R4219191 TEST BLOCK ADAPTER		
4	R4068357	25	· SEAL, SPLIT FLANGE #20 1.25, POLYURETHANE - REPLACES R4222170 - USE: FLUID POWER GROUP		
5	R4068358	50	· SEAL, SPLIT FLANGE #24 1.5, POLYURETHANE - REPLACES R4222171 - USE: FLUID POWER GROUP		
6	R4068830	8	· O-RING, .139 4.98, VITON - REPLACES R4147284 - USE: FLUID POWER GROUP & GEARBOX		
7	R4071255	50	· SEAL, SPLIT FLANGE #32 2.0, POLYURETHANE - REPLACES R4222172 - USE: FLUID POWER GROUP		
8	R4105004	5	· O-RING, .139 .98, POLYURETHANE - USE: FLUID POWER GROUP		
9	R4105005	20	· SEAL, SPLIT FLANGE #16 1.0, POLYURETHANE - REPLACES R4222169 - USE: FLUID POWER GROUP		
10	R4116301	30	· O-RING, SPLIT FLANGE #40 2-1/2 SAE, POLYURETHANE - USE: FLUID POWER GROUP		
11	R4123584	4	· QUAD RING SEAL, .139 X 3.359" I.D., BUNA N - USE: FLUID POWER GROUP		
12	R4123585	4	· QUAD RING SEAL, .139 X 3.859" I.D., BUNA N - USE: FLUID POWER GROUP		
13	R4123586	4	· QUAD RING SEAL, .139 X 4.359" I.D., BUNA N - USE: FLUID POWER GROUP and oil cooler		
14	R4131587	2	· O-RING, .139 1.73, POLYURETHANE - USE: STEERING JUNCTION VALVE		
15	R4133132	4	· O-RING, 3/8" SAE BOSS, POLYURETHANE - USE: FLUID POWER GROUP		
16	R4133133	2	· O-RING, .087 .64, POLYURETHANE - USE: FLUID POWER GROUP		
17	R4154858	8	· O-RING, .139 2.63, POLYURETHANE - REPLACES R4222476 - USE: OIL COOLER CONTROL VALVE		
18	R4243926	4	· O-RING, .103 3.237, POLYURETHANE - USE: SUCTION FILTER		
19	R4244637	9	· O-RING, .139 6.48, VITON - REPLACES R4237599 - USE: FLUID POWER GROUP & GEARBOX		
20	R4244771	1	· O-RING, .139 3.23, VITON - REPLACES R4102824 - USE: FLUID POWER GROUP		
21	R4244772	8	· O-RING, .139 5.98, VITON - REPLACES R4181235 - USE: FLUID POWER GROUP & GEARBOX		
22	R4247845	1	· O-RING, .070 .3489, BUNA N - USE: POSITION INDICATOR ASSEMBLY		
23	R4247863	2	· O-RING, .070 1.05, BUNA N - USE: FUEL SYSTEM		
24	R4247879	2	· O-RING, .070 .489, BUNA N - USE: POSITION INDICATOR ASSEMBLY		
25	R4257212	2	· O-RING, .139 3.98, VITON - REPLACES R4110761 - USE: FLUID POWER GROUP		
26	R4267979	2	· O-RING, 1-1/4" I.D. - POLYURETHANE - USE: FLUID POWER GROUP		
27	R4268035	1	· O-RING, .103 2.11 - POLYURETHANE - USE: FLUID POWER GROUP		
28	R4268036	1	· O-RING, .103 1.74 - POLYURETHANE - USE: FLUID POWER GROUP		

NONE
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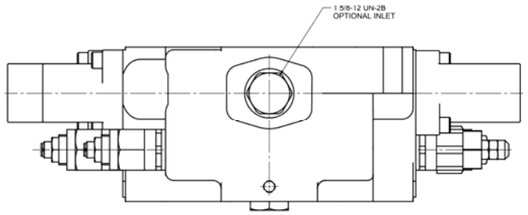
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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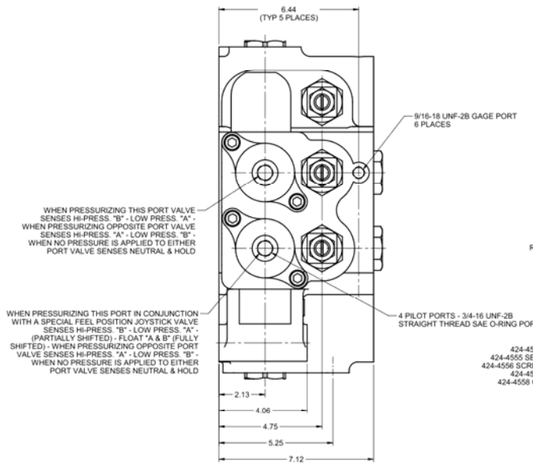
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2020 All Rights Reserved

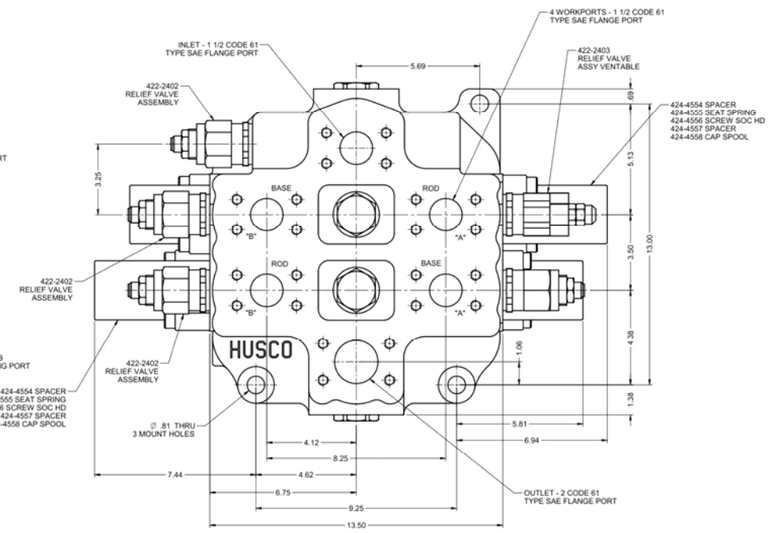
DUAL CONTROL VALVE ASSEMBLY

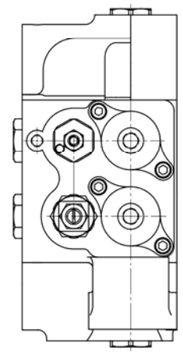
REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHD	CHK	APP
	00	RELEASED	NL03-0015	10-06	TEW	RWD	DMF
	01	ADD SERVICE PARTS 4244554,55,56,57,58	NL04-1420	4-21	KMD	RWD	RWD
	02	ADDED SERVICE PART 427-3405	NL11-0774	4-1	TEW	AY	AY
	03	ADDED BLACK PAINT NOTE	NL11-1252	04-11	BAM	SEM	SEM

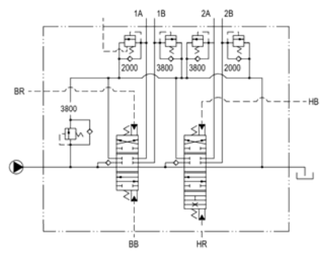


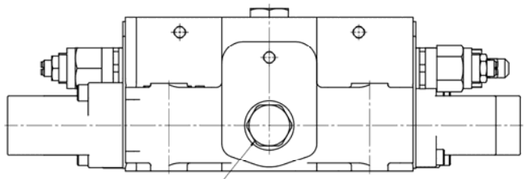
HUSCO TEST SPECIFICATIONS:
1.) TEST WITH PETROLEUM BASED 10W HYD. OIL @ 110° ±10°F (129 SSU)
2.) MAIN RELIEF VALVE TO BE SET AT 3800 ±25 PSI @ 5 GPM
3.) LEAKAGE RATES TO BE AS FOLLOWS AT 1000 PSI:
A.) SPOOLS, PORTS 1B & 2A, 7.5 CIPM MAX. PORTS 1A & 2B, 15 CIPM MAX.
B.) LOAD CHECK, ALL PORTS; NOT TO EXCEED 45 CIPM MAX.
4.) SPECIAL TEST SPECIFICATIONS: TP-1002 & TA-1014
5.) MAX. PILOT PRESSURE TO SHIFT SPOOL: 250 PSI
6.) CENTERING SPRINGS ARE ADEQUATE TO RETURN SPOOLS TO NEUTRAL AT 3450 PSI @ 90 GPM
7.) MAX. PILOT PRESSURE: 375 PSI











SERVICE PARTS:
422-2114 - SEAL KIT
422-2340 - SPRING, VALVE CENTERING, INT
422-2341 - SPRING, VALVE CENTERING, EXT
422-2402 - RELIEF VALVE ASSEMBLY
422-2403 - RELIEF VALVE ASSEMBLY
424-8719 - END CAP LONG
424-8720 - END CAP SHORT
424-4554 - SPACER
424-4555 - SEAT SPRING
424-4556 - SHOULDER SCREW SOC HD
424-4557 - SPACER
424-4558 - CAP SPOOL
427-3405 - SPRING FLOAT

PAINT NOTE:

1. PAINT FLAT BLACK WITH LET #426-4675
****DO NOT PAINT MACHINED SURFACES****

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
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• TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, XX DECIMAL ±.03, XXX DECIMAL ±.015
• MACHINED CORNERS .184 X 45°
• WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

DWN	T. Willis	10-03-2003
CHK	RWD	10 06 2003
ENGR		
PROD ENGR	DMF	10-06-2003
PROJ APPROVAL		
MATL	PURCHASED A	

LeTourneau Technologies™

CONTROL VALVE ASSEMBLY
VALVE - CONTROL DUAL

SIZE E | DO NOT SCALE | DWG NO 4248685 | REV 03
SCALE 1/2 | WT 300.0 lbm | SHEET 1 OF 1

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DUAL CONTROL VALVE ASSEMBLY

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DUAL CONTROL VALVE ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4248685		DUAL CONTROL VALVE ASSEMBLY		7/24/15
	R4244558	2	· CAP, END - SPOOL		
	R4244557	2	· SPACER		
	R4244556	2	· SCREW, SHOULDER - SOCKET HD.		
	R4244555	2	· SPRING, SEAT		
	R4244554	4	· SPACER		
	R4248720	2	· CAP, END - SHORT		
	R4248719	2	· CAP, END - LONG		
	R4222403	1	· VALVE ASSEMBLY, RELIEF		
	R4222402	4	· VALVE ASSEMBLY, RELIEF		
	R4222341	2	· SPRING, EXTERNAL		
	R4222340	2	· SPRING, INTERNAL		
	R4273405	1	· SPRING, FLOAT		4/25/11
	R4222114	1	SEAL KIT, HUSCO VALVE		
		REF	DRAWING, DUAL CONTROL VALVE ASSEMBLY (R424868503)		7/24/15

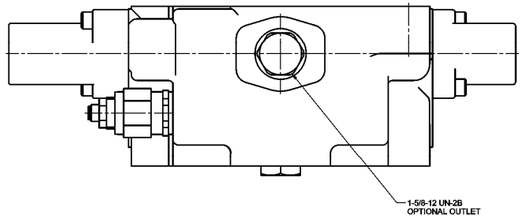
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

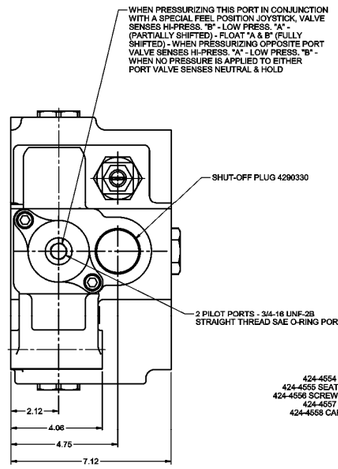
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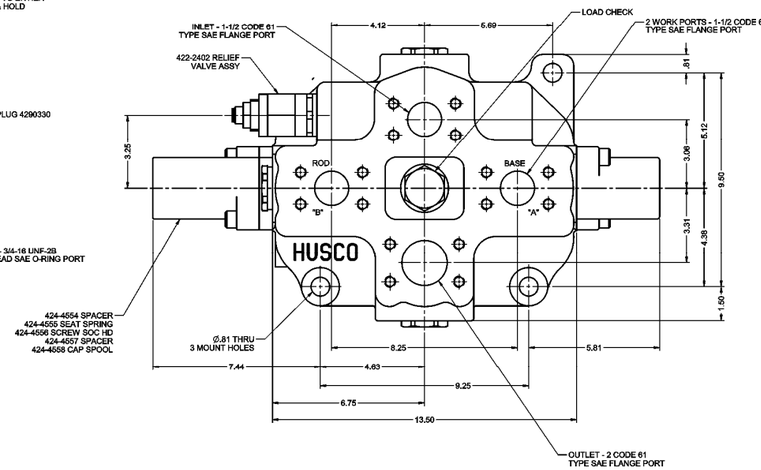
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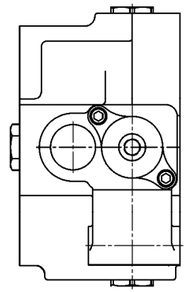
SINGLE CONTROL VALVE ASSEMBLY



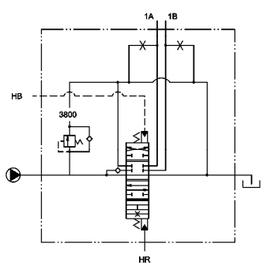
HUSCO TEST SPECIVICATIONS:
1. TEST WITH PETROLEUM BASED 10W HYD. OIL @ 110°±10°F (129 SSU)
2. MAIN RELIEF VALVE TO BE SET AT 3800±25 PSI @ 5 GPM
3. LEAKAGE RATES TO BE AS FOLLOWS AT 1000 PSI:
   A. SPOOLS, PORTS 1A; 7.5 CIPM MAX. PORTS 1B; 15 CIPM MAX.
   B. LOAD CHECK, ALL PORTS; NOT TO EXCEED 45 CIPM MAX.
4. SPECIAL TEST SPECIFICATIONS: TP-1002 & TA-1014
5. MAX. PILOT PRESSURE TO SHIFT SPOOL: 250 PSI
6. CENTERING SPRINGS ARE ADEQUATE TO RETURN SPOOLS TO NEUTRAL AT 3450 PSI @ 90 GPM
7. MAX. PILOT PRESSURE: 375 PSI

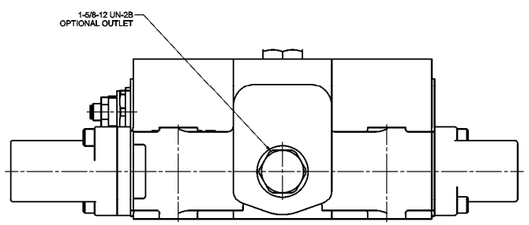






LeTOURNEAU SPECIFICATIONS:
PART NO.: 424-9686
PUMP OUTPUT: 125 GPM MAX.
OPERATION PRESSURE: 3800 PSI
OPERATING TEMP.: -40°TO +220°F
OIL TYPE: SAE 10W
CENTERING SPRINGS ARE ADEQUATE TO RETURN SPOOLS TO NEUTRAL PER ABOVE INFORMATION.





SERVICE PARTS
422-2113 - SEAL KIT
422-2340 - SPRING, VALVE CENTERING, INT
422-2341 - SPRING, VALVE CENTERING, EXT
422-2402 - RELIEF VALVE
424-8719 - END CAP LONG
424-8720 - END CAP SHORT
424-4554 - SPACER
424-4555 - SEAT SPRING
424-4556 - SCREW SHOULDER SOC HD
424-4557 - SPACER
424-4558 - CAP SPOOL
427-3405 - SPRING FLOAT
429-0330 - SHUT OFF PLUG

PAINT NOTE:

1. PAINT FLAT BLACK WITH LET #426-4675
   "DO NOT PAINT MACHINED SURFACES"

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UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING ON FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°; FRACTIONS ±1/16; XX DECIMAL ±.03; XXX DECIMAL ±.015
- MACHINED CORNERS .18 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	T. Willis	10/03/2003
CHK	RWD	10/03/2003
ENGR		
PROD ENGR	DMF	10/06/2003
PROJ APPROVAL		
MATL	PURCHASED A	

JOYGLOBAL

ASSY MAIN VALVE SINGLE SP VALVE - CONTROL - SINGLE

SIZE E | DO NOT SCALE | DWG NO. 4248686 | REV 05

SCALE 1/2 | WT 200.0 lbm | SHEET 1 OF 1

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SINGLE CONTROL VALVE ASSEMBLY

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SINGLE CONTROL VALVE ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4248686		SINGLE CONTROL VALVE ASSEMBLY		1/17/18
	R4244558	1	· CAP, END - SPOOL		
	R4244557	1	· SPACER		
	R4244556	1	· SCREW, SHOULDER - SOCKET HD.		
	R4244555	1	· SPRING, SEAT		
	R4244554	2	· SPACER		
	R4248720	1	· CAP, END - SHORT		
	R4248719	1	· CAP, END - LONG		
	R4222402	1	· VALVE ASSEMBLY, RELIEF		
	R4222341	1	· SPRING, EXTERNAL		
	R4222340	1	· SPRING, INTERNAL		
	R4273405	1	· SPRING, FLOAT		4/25/11
	R4290330	1	· PLUG, SHUT OFF		1/17/18
	R4222113	1	SEAL KIT, HUSCO VALVE		
		REF	DRAWING, SINGLE CONTROL VALVE ASSEMBLY (R424868605)		1/17/18

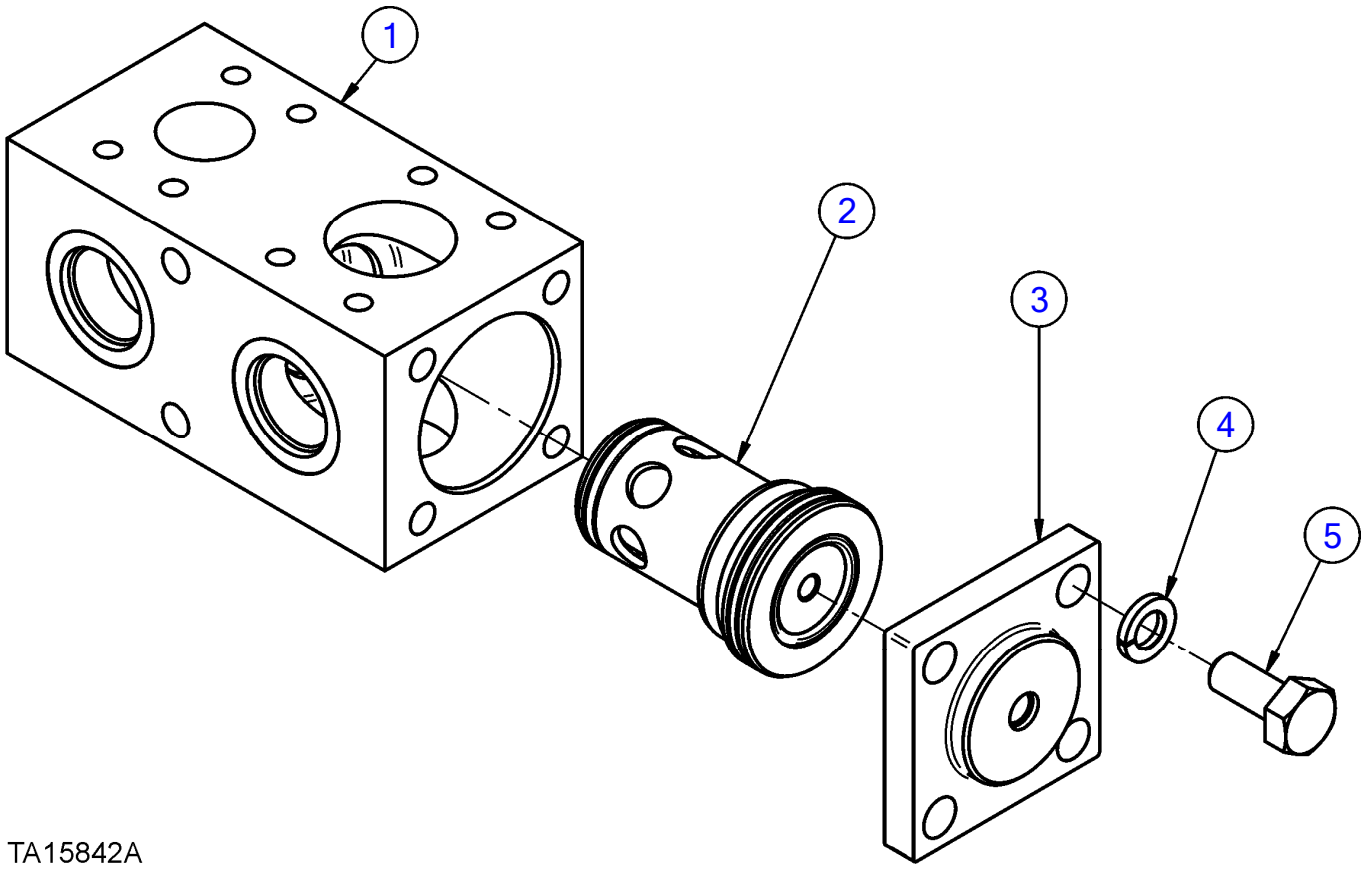
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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OIL COOLER VALVE ASSEMBLY



TA15842A

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OIL COOLER VALVE ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4277635		OIL COOLER VALVE ASSEMBLY		1/17/18
1	R4277634	1	· HOUSING, OIL COOLER VALVE		
2	R4277633	1	· CARTRIDGE ASSEMBLY, 40 MM		
	R4279449	1	· · SPRING		
	R4279450	1	· · SEAL KIT - VITON		
3	R4277636	1	· CAP, END		
4	R0021541	4	· LOCKWASHER, 5/8"		
5	R0025762	4	· BOLT, 5/8"-11 X 1-1/2"		
		REF	DRAWING, OIL COOLER VALVE ASSEMBLY (R427763501)		1/17/18

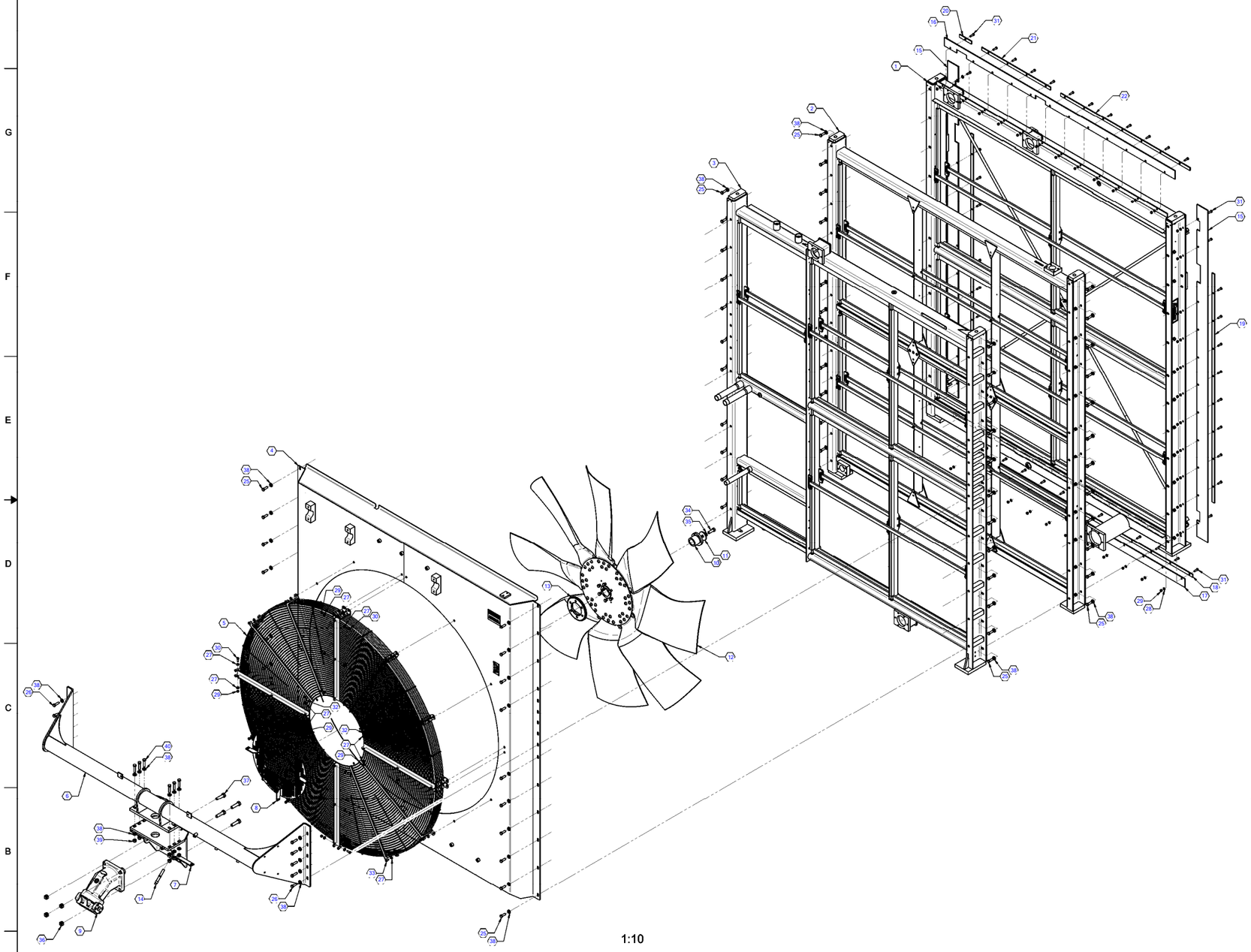
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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RADIATOR, OIL COOLER AND FAN ASSEMBLY



1:10

ITEM	PART NO.	QTY	DESCRIPTION
40	0808488	6	BOLT HX .500 2.250 NC G8
39	4016017	6	NUT LOCK NYL INS .500 NC
38	4285260	90	WASHER FLAT .531 1.063 .188
37	0021647	4	BOLT HX .750 2.750 NC G8 FT
36	4016018	4	NUT LOCK NYL INS .750 NC
35	0021541	1	WASHER LOCK SPR .625 1.06 .16
34	4267926	1	BOLT HX M16 X 2.0 X 50MM 10.9
33	0810970	16	BOLT HX .375 .750 NC G8 FT
32	4009540	2	BOLT HX .375 1.500 NC G8
31	0808476	46	BOLT HX .375 1.250 NC G8
30	0810971	10	BOLT HX .375 1.000 NC G8 FT
29	0812921	58	NUT HX 0.375-16UNC-2B G8 PL
28	9429695	46	WASHER LOCK SPR .382 .69 .12
27	4285261	46	WASHER FLAT .406 .845 .126
26	0824790	10	BOLT HX .500 1.750 NC G8
25	4009753	68	BOLT HX .500 1.500 NC G8
24*	0808489	48	NUT HX .500 NC
23*	9420963	48	WASHER LOCK SPR .509 .88 .15
22	4295562	1	L1350 G3 RAD TOP BAFFLE BAR LEFT
21	4295561	1	L1350 G3 RAD TOP BAFFLE BAR MID
20	4295560	1	L1350 G3 RAD TOP BAFFLE BAR RIGHT
19	4295559	2	L1350 G3 RAD SIDE BAFFLE BAR
18	4279949	1	BOTTOM FRAME BAFFLE STRAP 1350
17	4279948	1	BOTTOM FRAME BAFFLE 1350
16	4295558	1	L1350 G3 RAD TOP BAFFLE RUBBER
15	4295557	2	L1350 G3 RAD SIDE BAFFLE RUBBER
14	6980376	1	MAGNETIC PICKUP
13	4221349	1	GEAR FAN SENSOR
12	4287518	1	FAN ENG 78 PUSH COMPOSITE
11	4121199	1	WASHER, RETAINER
10	4236974	1	SPLIT TAPER BUSHING 50MM
9	4237906	1	MTR-PSTN-180CMP (10.98 IN*) BI
8	4295556	1	L1350 G3 RAD CENTER FINGER GUARD
7	4295555	1	L1350 G3 RAD MOTOR MOUNT
6	4295554	1	L1350 G3 RAD CROSSMEMBER
5	4295553	4	L1350 G3 RAD FAN GUARD
4	4295552	1	L1350 G3 RAD FAN SHROUD
3	4295551	1	L1350 G3 LTC
2	4295550	1	L1350 G3 HYD OIL COOLER
1	4287500	1	L1350 G3 HTC

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- MACHINED CORNERS MAX .40"
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 428-7521

JOYGLOBAL

DWN	khardy	01-12-2016
CHK	TMW	01-12-2016
ENGR	TMW	01-12-2016
PROD ENGR		
PROJ APPROVAL		
MATL	PURCHASED A	

ASSY RAD O/C CFAN MTR L1350 G3

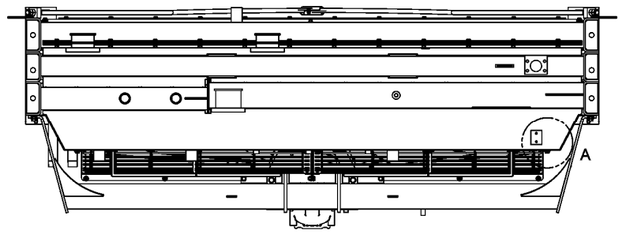
SIZE E | DO NOT SCALE | DWG NO. 4283227 | REV 02

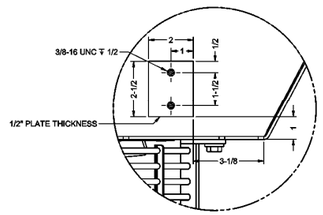
SCALE 1:8 | WT/WT 5983.7 lbm | SHEET 1 OF 2

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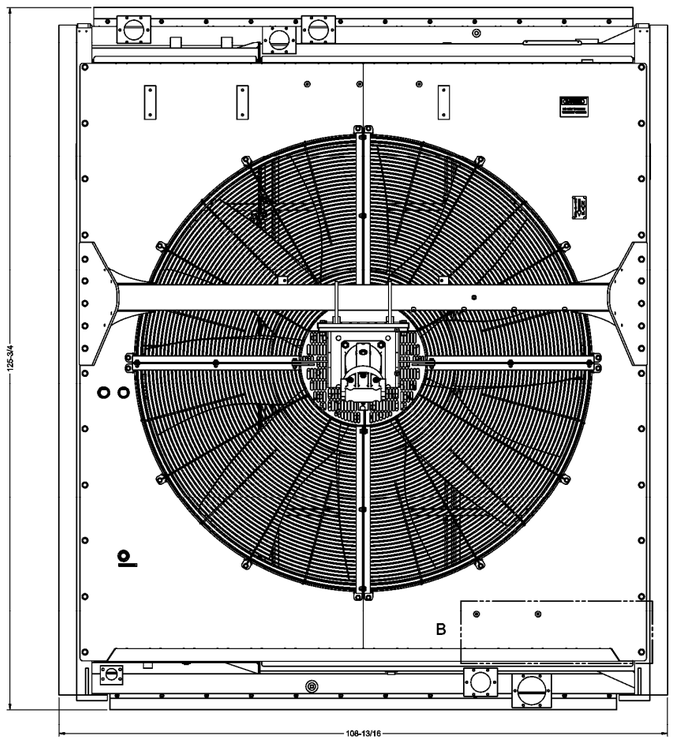
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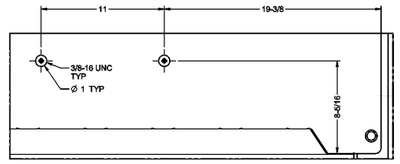
RADIATOR, OIL COOLER AND FAN ASSEMBLY



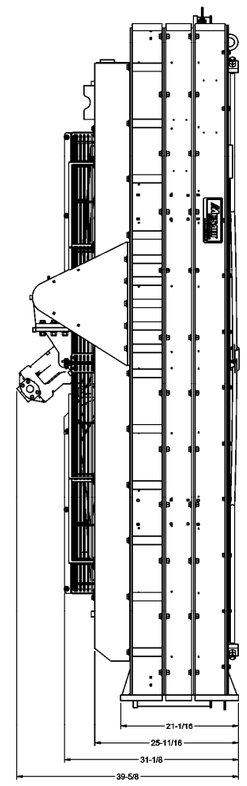


DETAIL A
1:2





DETAIL B
1:4



ASSY RAD OIC CFAN MTR L1350 G5				
DRAWN khamdy	SIZE E	DO NOT SCALE	DWG NO. 4283227	REV 02
ENGRD	SCALE 1:8	WT 5983.7 lbm	SHEET 2 OF 2	

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4283227		RADIATOR, OIL COOLER AND FAN ASSEMBLY		
1	R4287500	1	· RADIATOR ASSEMBLY, HIGH TEMPERATURE COOLER		
2	R4295550	1	· HYDRAULIC OIL COOLER ASSEMBLY		
3	R4295551	1	· RADIATOR ASSEMBLY, LOW TEMPERATURE COOLER		
4	R4295552	1	· SHROUD STRUCTURE, RADIATOR		
5	R4295553	4	· GUARD, FAN		
6	R4295554	1	· CROSSMEMBER, FAN MOTOR		
7	R4295555	1	· MOUNT STRUCTURE, FAN MOTOR		
8	R4295556	1	· GUARD, CENTER FINGER		
9	R4237906	1	· MOTOR, FAN		
	R4241079	1	· · SEAL KIT		
10	R4236974	1	· BUSHING, SPLIT TAPER		
11	R4121199	1	· WASHER, RETAINER		
12	R4287518	1	· FAN ASSEMBLY, 78" - COMPOSITE BLADE		
13	R4221349	1	· GEAR, FAN SPEED		
	R4186093	AR	· SHIM, FAN SPEED GEAR		
14	R6980376	1	· SPEED SENSOR PROBE		
	R4260477	REF	· HARNESS ASSEMBLY, ENGINE FAN SPEED SENSOR - TURCK		
15	R4295557	2	· BAFFLE, RUBBER - SIDE, 120"		
16	R4295558	1	· BAFFLE, RUBBER - TOP, 96-3/8"		
17	R4279948	1	· BAFFLE, RUBBER - BOTTOM		
18	R4279949	1	· BAR, BAFFLE - BOTTOM		
19	R4295559	2	· BAR, BAFFLE - SIDE		
20	R4295560	1	· BAR, BAFFLE - TOP RIGHT		
21	R4295561	1	· BAR, BAFFLE - TOP MIDDLE		
22	R4295562	1	· BAR, BAFFLE - TOP LEFT		
23	R9420963	48	· LOCKWASHER, 1/2"		
24	R0808489	48	· NUT, 1/2"-13		
25	R4009753	68	· BOLT, 1/2"-13 X 1-1/2"		
26	R0824790	10	· BOLT, 1/2"-13 X 1-3/4"		
27	R4285261	46	· FLATWASHER, 7/16" X 3/4" X 1/8"		
28	R9429695	46	· LOCKWASHER, 3/8"		
29	R0812921	58	· NUT, 3/8"-16		
30	R0810971	10	· BOLT, 3/8"-16 X 1"		
31	R0808476	46	· BOLT, 3/8"-16 X 1-1/4"		
32	R4009640	2	· BOLT, 3/8"-16 X 1-1/2"		
33	R0810970	16	· BOLT, 3/8"-16 X 3/4"		
34	R4257928	1	· BOLT, 16M X 2 X 50MM		
35	R0021541	1	· LOCKWASHER, 5/8"		
36	R4016018	4	· LOCKNUT, 3/4"-10 - NYLON		
37	R0021647	4	· BOLT, 3/4"-10 X 2-3/4"		
38	R4285260	90	· FLATWASHER, 9/16" I.D. X 1-1/16" O.D. X 3/16"		
39	R4016017	6	· LOCKNUT, 1/2"-13 - NYLON		
40	R0808488	6	· BOLT, 1/2"-13 X 2-1/4"		
			DRAWING, RADIATOR, OIL COOLER AND FAN ASSEMBLY (428322702)		

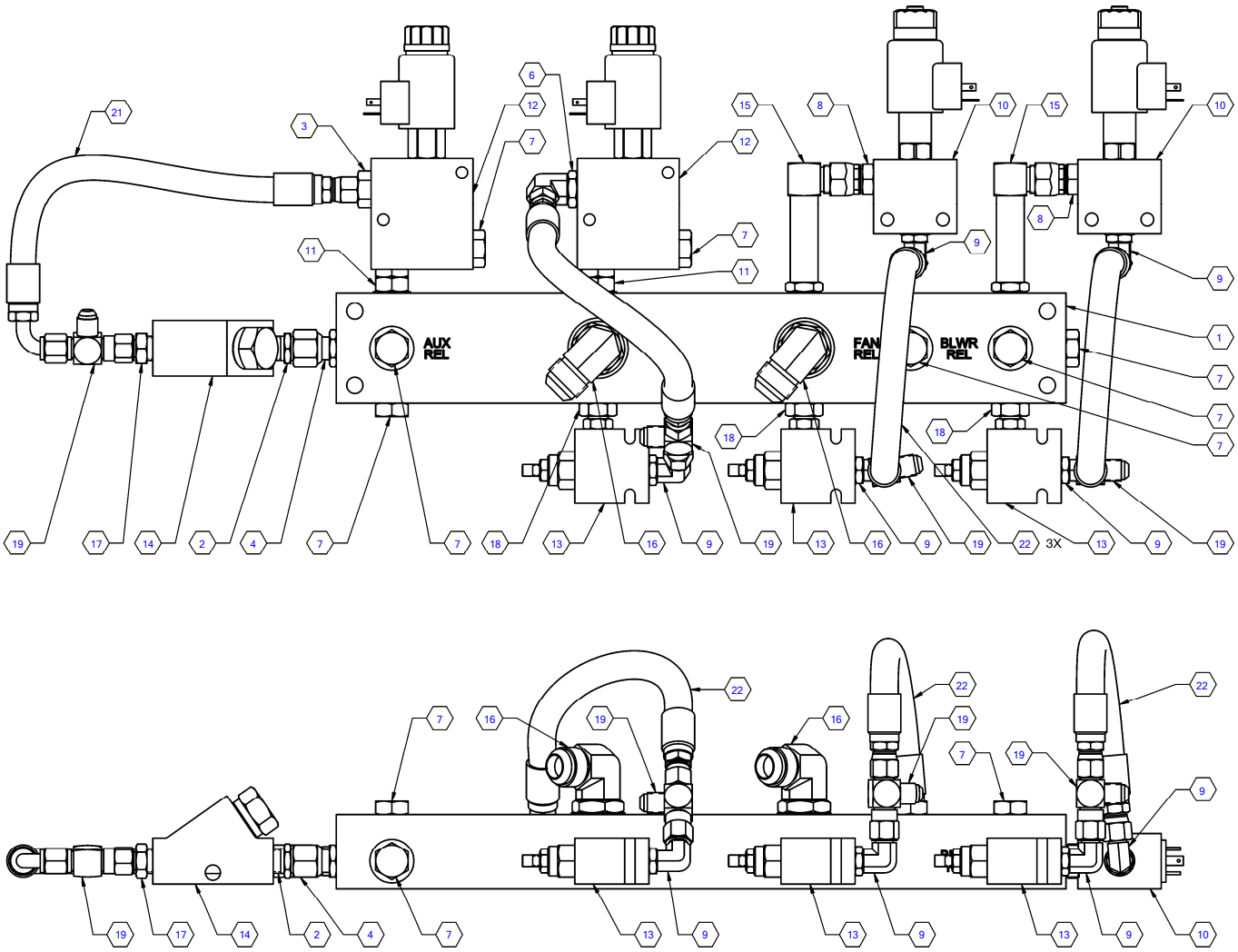
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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PROPORTIONAL AND RELIEF MANIFOLD ASSEMBLY



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PROPORTIONAL AND RELIEF MANIFOLD ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273362		PROPORTIONAL AND RELIEF MANIFOLD ASSEMBLY		
1	R4273390	1	· MANIFOLD STRUCTURE		
2	R4002420	1	· ADAPTER, 3/8" MP X #8 MJ		
3	R4020771	1	· ADAPTER, #8 MO X #6 MJ		
4	R4116765	1	· ADAPTER, #8 MO X #8 FJ		
5	N.P.N.		· NOT USED		
6	R4017400	1	· ELBOW, #8 MO X 90 deg. X #6 MJ - ADJ.		
7	R4020769	7	· PLUG, # 8 MO		
8	R4273444	2	· ADAPTER, #6 MO X #8 FJ		
9	R4002470	5	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
10	R4261352	2	· VALVE ASSEMBLY, PROPORTIONAL - N.C.		
11	R4030078	2	· ADAPTER, #8 MO X #8 MO		
12	R4244832	2	· VALVE ASSEMBLY, SOLENOID - 2 WAY N.C., 24VDC		
13	R4241019	3	· VALVE ASSEMBLY, RELIEF - 500-5000 PSI		
14	R4261663	1	· VALVE ASSEMBLY, CHECK - 100 PSI		
15	R4273445	2	· ELBOW, #8 MO X 90 deg. X #8 MJ		
16	R4002473	2	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
17	R4011756	1	· ADAPTER, 3/8" MP X #6 MJ		
18	R4264894	3	· ADAPTER, #8 MO X #6 MO		
19	R4131486	4	· TEE, #6 MJ X #6 FJ X #6 MJ		
20	N.P.N.		· NOT USED		
21	R4186018	1	· HOSE ASSEMBLY, #6 X 14"		
22	R4103632	3	· HOSE ASSEMBLY, #6 X 12"		
	R4273362	REF	DRAWING, PROPORTIONAL AND RELIEF MANIFOLD ASSEMBLY (01)		

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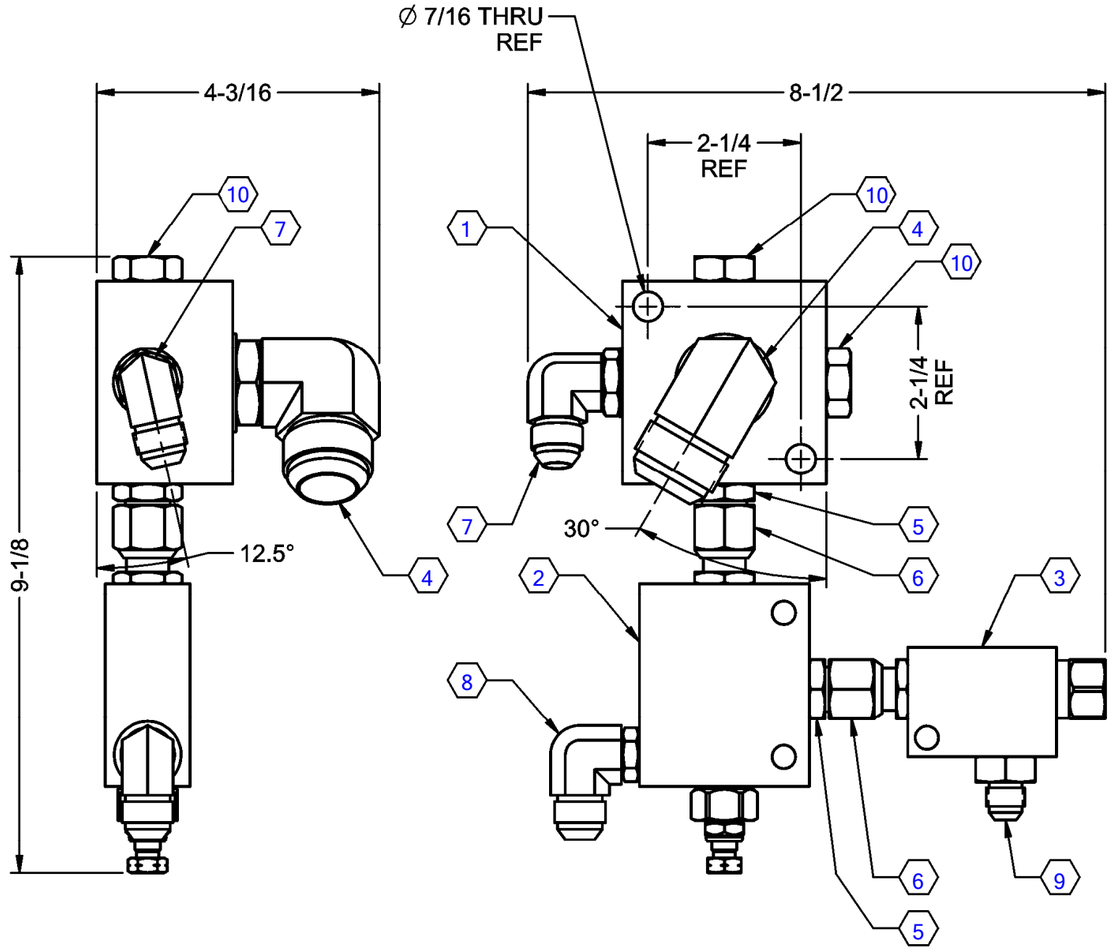
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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REAR ACCESSORY VALVE ASSEMBLY

REVISIONS						
REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
00	RELEASE	1349112	8-30-17	RAH	EER	JBD



ITEM	PART NO.	QTY	DESCRIPTION
10	4020769	2	PLG 8 MO OH HX
9	4020771	1	ADAPTER FTG HYD 0 8MO 6MJ JUMP
8	4040553	1	FTG HYD 90 8MJ 6MO
7	4179644	1	FTG HYD 90 8 MJ 8 MO
6	4116765	2	FTG HYD 0 8 MO 8 FJ
5	4002455	2	FTG HYD 0 8 MJ 8 MO
4	4040556	1	FTG HYD 90 16 MJ 12 MO JUMP
3	4244881	1	VALVE-FLOW CONT ASSY 2.5 GPM
2	4273458	1	SEQUENCE VALVE PILOT OPERATED
1	4170566	1	MANIFOLD, 5 PORT, #8, #12

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, .XX DECIMAL ±.03, .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

USED ON 428-9627

		DATE
DWN	rhyatt	8-30-17
CHK	EER	8-30-17
ENGR	EER	8-30-17
PROD ENGR		
PROJ APPROVAL	JBD	8-30-17
MATL		

KOMATSU

ASSY VALVE ACCESSORY G3

SIZE		DWG NO.	REV
B	DO NOT SCALE	4292325	00

SCALE 1:2 | EST WT 5.4 lbm | SHEET 1 OF 1

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REAR ACCESSORY VALVE ASSEMBLY

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REAR ACCESSORY VALVE ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4292325		REAR ACCESSORY VALVE ASSEMBLY		
1	R4170566	1	· MANIFOLD STRUCTURE - 5 PORT		
2	R4273458	1	· VALVE, SEQUENCE - PILOT OPERATED		
	R4277619	1	· · VALVE ASSEMBLY, SEQUENCE - 15 GPM		
3	R4244881	1	· VALVE, FLOW CONTROL - 2.5 GPM		
4	R4040556	1	· ELBOW, #12 MO X 90 deg. X #16 MJ		
5	R4002455	2	· ADAPTER, #8 MO X #8 MJ		
6	R4116765	2	· ADAPTER, #8 MO X #8 FJ		
7	R4179644	1	· ELBOW, #8 MO X 90 deg. X #8 MJ		
8	R4040553	1	· ELBOW, #6 MO X 90 deg. X #8 MJ		
9	R4020771	1	· ADAPTER, #8 MO X #6 MJ		
10	R4020769	2	· PLUG, PIPE - #8 MO		
		REF	DRAWING, REAR ACCESSORY VALVE ASSEMBLY(R429232500)		

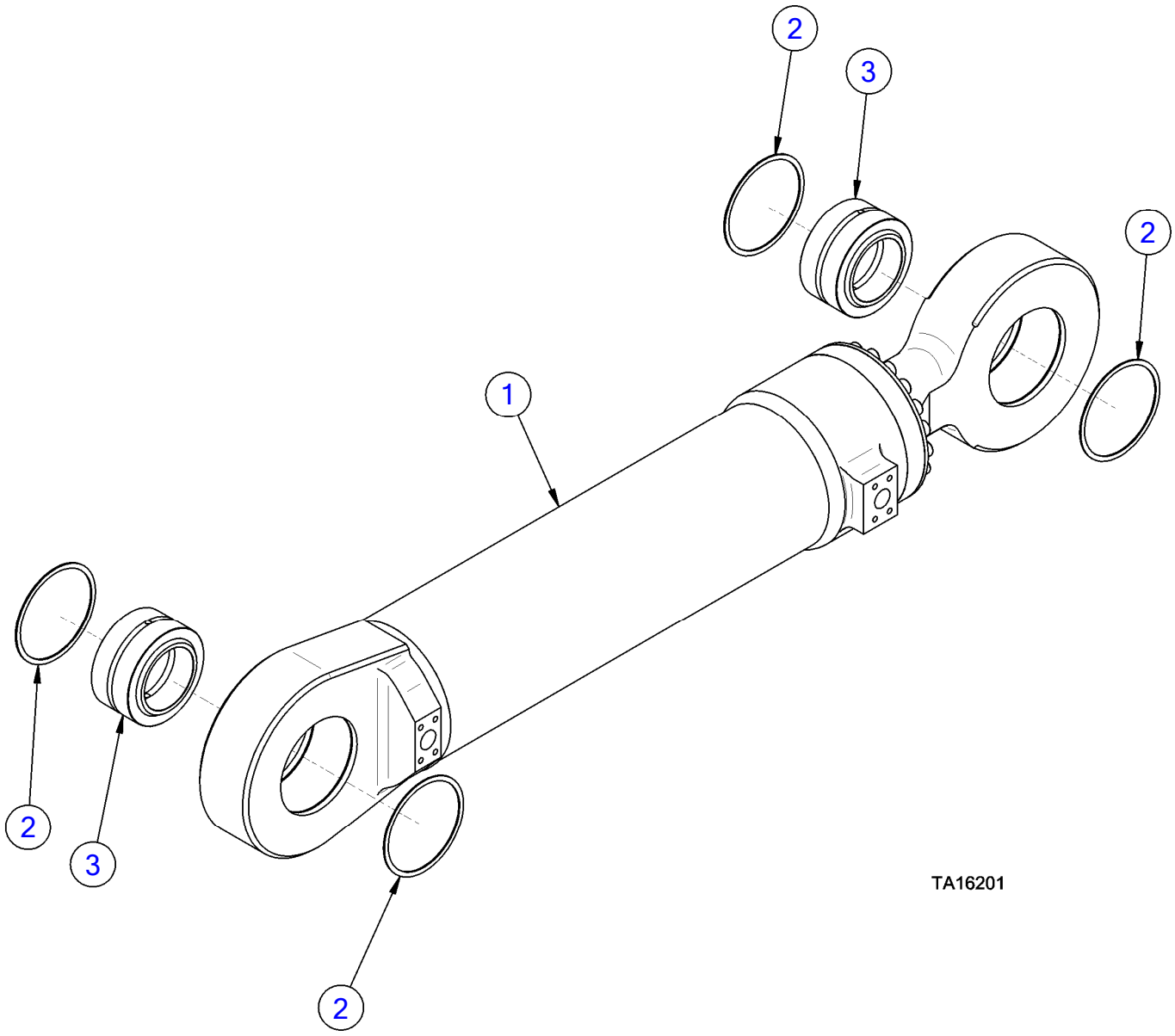
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STEER CYLINDER



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4261599		STEER CYLINDER		
1	R4290005	1	· STEER CYLINDER ASSEMBLY (PAGE 8.12-8.12C)		
2	R4093488	4	· RING, RETAINING - INTERNAL		
3	R6944893	2	· BUSHING, SELF-ALIGNING - 4"		

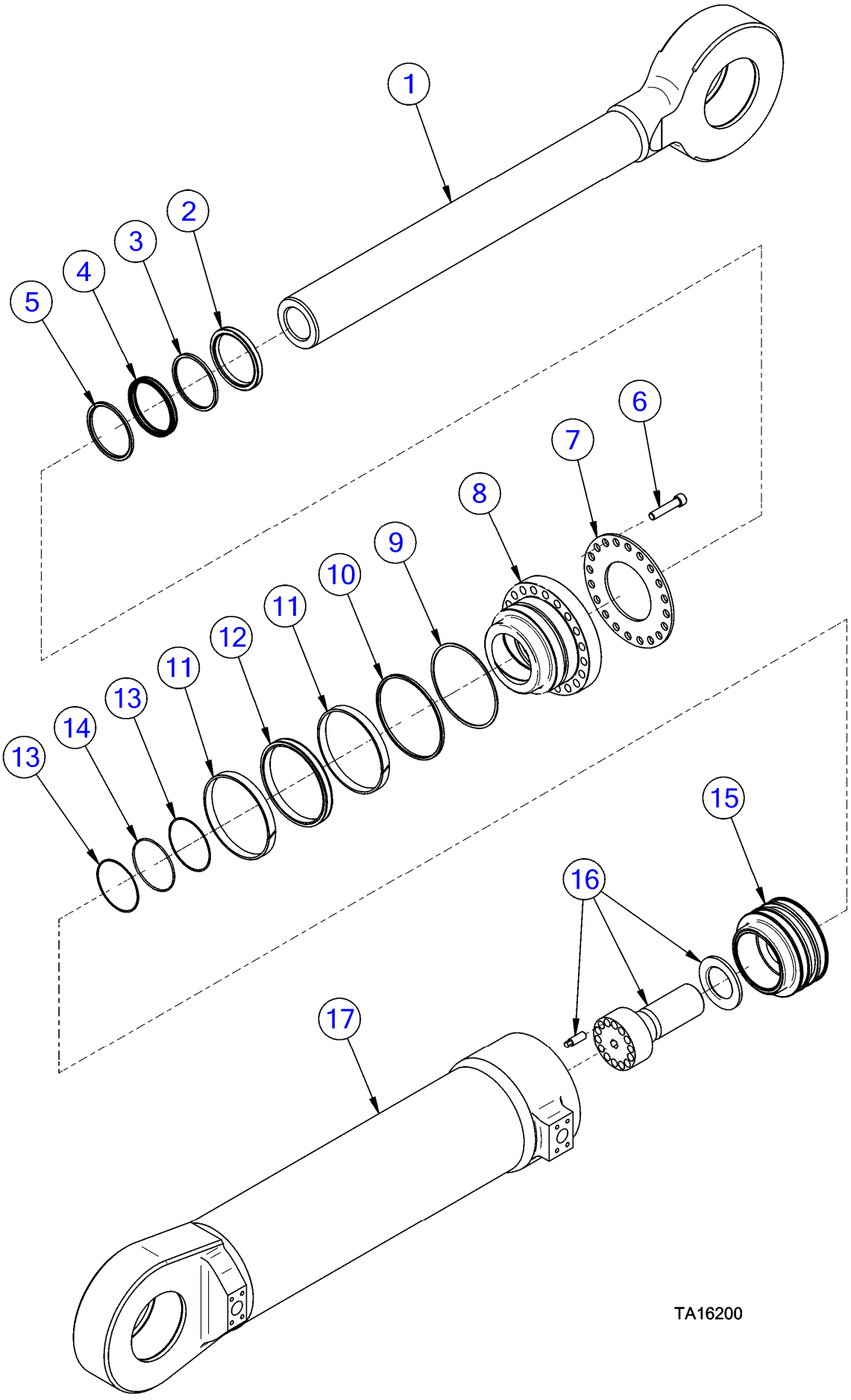
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STEER CYLINDER ASSEMBLY



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STEER CYLINDER ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4290005		STEER CYLINDER ASSEMBLY		
1	R4267890	1	· ROD, CYLINDER		
2	R4290494	1	· WIPER		
3	R4290471	1	· WIPER, SECONDARY		
4	R4256368	1	· SEAL, U-CUP		
5	R4256366	1	· SEAL, ROD		
6	R4267893	20	· CAPSCREW, 5/8"-11 X 3" - SOCKET HD.		
7	R4271203	1	· RETAINER PLATE		
8	R4271205	1	· HEAD		
9	R4234104	1	· SEAL, U-CUP		
10	R4244906	1	· SEAL, QUAD RING - 7" I.D. - NITRILE		
11	R4290493	2	· RING, WEAR - PISTON		
12	R4219220	1	· SEAL, PISTON - 7-1/2" O.D. - NITRILE		
13	R4068217	2	· RING, BACK-UP		
14	R4290472	1	· O-RING		
15	R4290492	1	· PISTON		
16	R4290469	1	· SUPERBOLT, 2-3/4" X 7"		
17	R4267885	1	· TUBE STRUCTURE		
			NOTE:		
	R4291960	REF	· SEAL KIT, CYLINDER TOP		
	R4291961	REF	· SEAL KIT, PISTON		
	R4291962	REF	· SEAL KIT, PISTON - .010 OVERSIZE		
	R4291963	REF	· SEAL KIT, PISTON - .020 OVERSIZE		
	R4291964	REF	· SEAL KIT, PISTON - .030 OVERSIZE		
		REF	DRAWING, STEER CYLINDER ASSEMBLY (R429000501)		

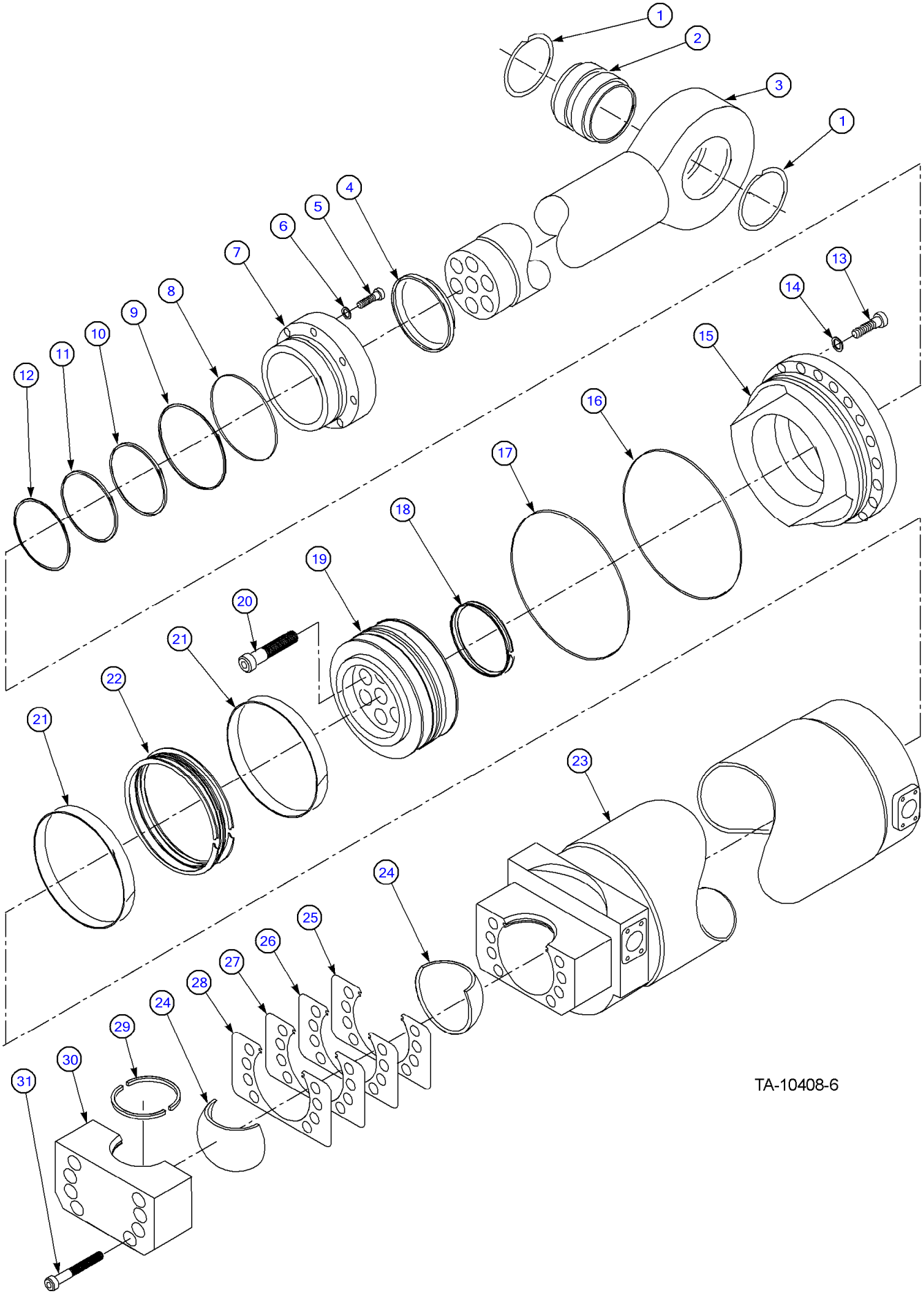
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HOIST CYLINDER ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271114		HOIST CYLINDER ASSEMBLY		6/24/13
1	R4231208	REF	· RING, RETAINING - INTERNAL - 10-13/16" O.D.	2	
2	R4231131	REF	· BUSHING, SELF-ALIGNING - 6-3/4" I.D. X 10-1/2" O.D.	1	
3	R4241218	1	· ROD STRUCTURE		
4	R4219180	1	· WIPER, ROD		
5	R4241258	6	· CAPSCREW, 5/8"-11 X 4-1/2" - SOCKET HD.		
	R0021641	2	· BOLT, 5/8"-11 X 4-1/2"		
6	R4010925	8	· FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
7	R4241216	1	· PACKING GLAND		
8	R4241234	1	· RING, BACK-UP		
9	R4241233	1	· O-RING		
10	R4241224	1	· SEAL, U-CUP		
11	R4241228	1	· SEAL, U-CUP		
12	R4241223	1	· SEAL, ROD BUFFER - 7"		
13	R4241257	22	· CAPSCREW, 1"-8 X 5"		
14	R4242939	22	· FLATWASHER, 1" X 1-1/2"		
15	R4241208	1	· HEAD		
16	R4241230	1	· RING, BACK-UP		
17	R4241229	1	· O-RING		
18	R4244676	1	· O-RING		
	R4244677	2	· RING, BACK-UP		
19	R4241207	1	· PISTON		
20	R4241235	7	· CAPSCREW, 1-1/4"-7 X 6"		
21	R4241222	2	· RING, WEAR - PISTON		
22	R4241225	1	· SEAL, PISTON		
23	R4241214	1	· TUBE STRUCTURE (SEE NOTE)		1/25/13
	R4271113	1	· SOCKET, BALL - 12", 10 BOLT (SEE NOTE)		1/25/13
24	R4081645	REF	LINER, BALL - HALF, 12"	2	
25	R4083039	REF	SHIM, .007"	AR	
26	R4170755	REF	SHIM, .018"	AR	
27	R4170756	REF	SHIM, .030"	AR	
28	R4170754	REF	SPACER, 3/16"	1	6/24/13
29	R4261580	REF	SEAL, BALL - 12" - NITRILE	1	
30	R4161182	REF	CAP, BALL - 12", 10 BOLT	1	
31	R4233222	REF	CAPSCREW, 1-1/4"-7 X 6"	10	
	R4241231	REF	SEAL KIT, INCLUDES ITEMS 4, 8, 9, 10, 11, 12, 16, 17, 18, 21 & 22.		
			NOTE:		1/25/13
			· TUBE STRUCTURE R4241214 AND BALL SOCKET R4271113 ARE NOT WELDED TOGETHER.		
			NOTE:		1/25/13
			· FACTORY WELDING INSTALLATION PROCEDURES MUST BE FOLLOWED FOR INSTALLATION OF		
			· THESE SOCKETS AND FAILURE TO DO SO COULD DAMAGE THE MACHINE AND VOID ANY REMAINING		
			· WARRANTY. THESE PROCEDURES ARE PUBLISHED. PLEASE CONTACT YOUR LETOURNEAU		
			· PRODUCT SUPPORT REPRESENTATIVE IF YOU HAVE ANY QUESTION OR NEED ASSISTANCE.		

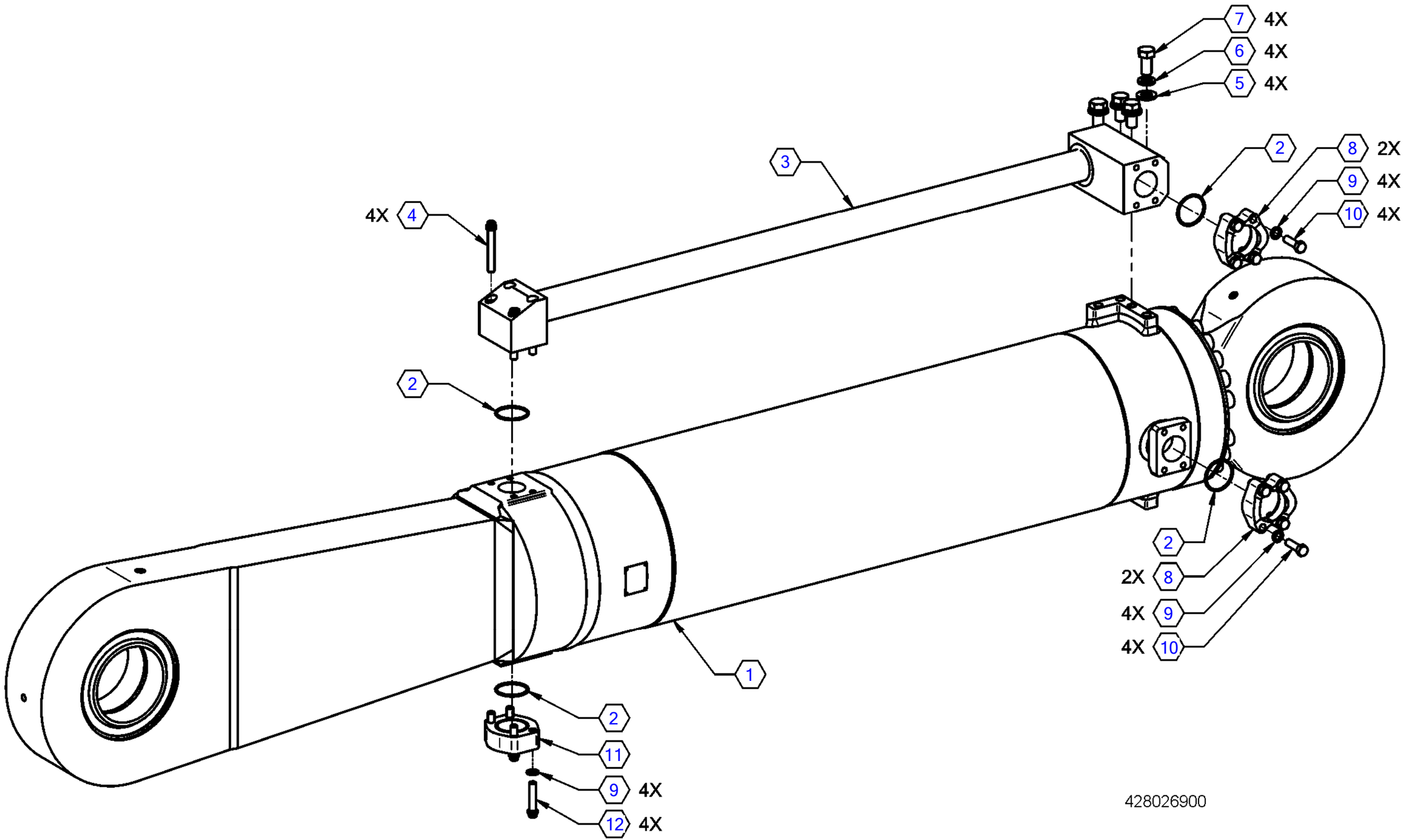
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BUCKET CYLINDER ASSEMBLY WITH TUBE - L.H.



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BUCKET CYLINDER ASSEMBLY WITH TUBE - L.H.

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280269		BUCKET CYLINDER ASSEMBLY WITH TUBE - L.H.		
1	R4280267	1	· BUCKET CYLINDER ASSEMBLY - HIGH LIFT (PAGE 8.15-8.15C)		
2	R4071255	4	· O-RING, 2-1/4" I.D. - POLYURETHANE		
3	R4237959	1	· PIPE STRUCTURE, BUCKET CYLINDER - L.H.		
4	R4152343	4	· CAPSCREW, 1/2"-13 X 3-1/2"		
5	R4016046	4	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		
6	R0021542	4	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
7	R4009523	4	· BOLT, 3/4"-10 X 1-1/2"		
8	R4186402	4	· FLANGE HALF, 2"		
9	R4210349	12	· FLATWASHER, 1/2" - HARDENED		
10	R0808488	4	· BOLT, 1/2"-13 X 1-3/4"		
11	R4223136	1	· PLUG, 2" SF		
12	R4001873	4	· CAPSCREW, 1/2"-13 X 2-1/4"		
		REF	BUCKET CYLINDER ASSEMBLY WITH TUBE - L.H. (R428026900)		

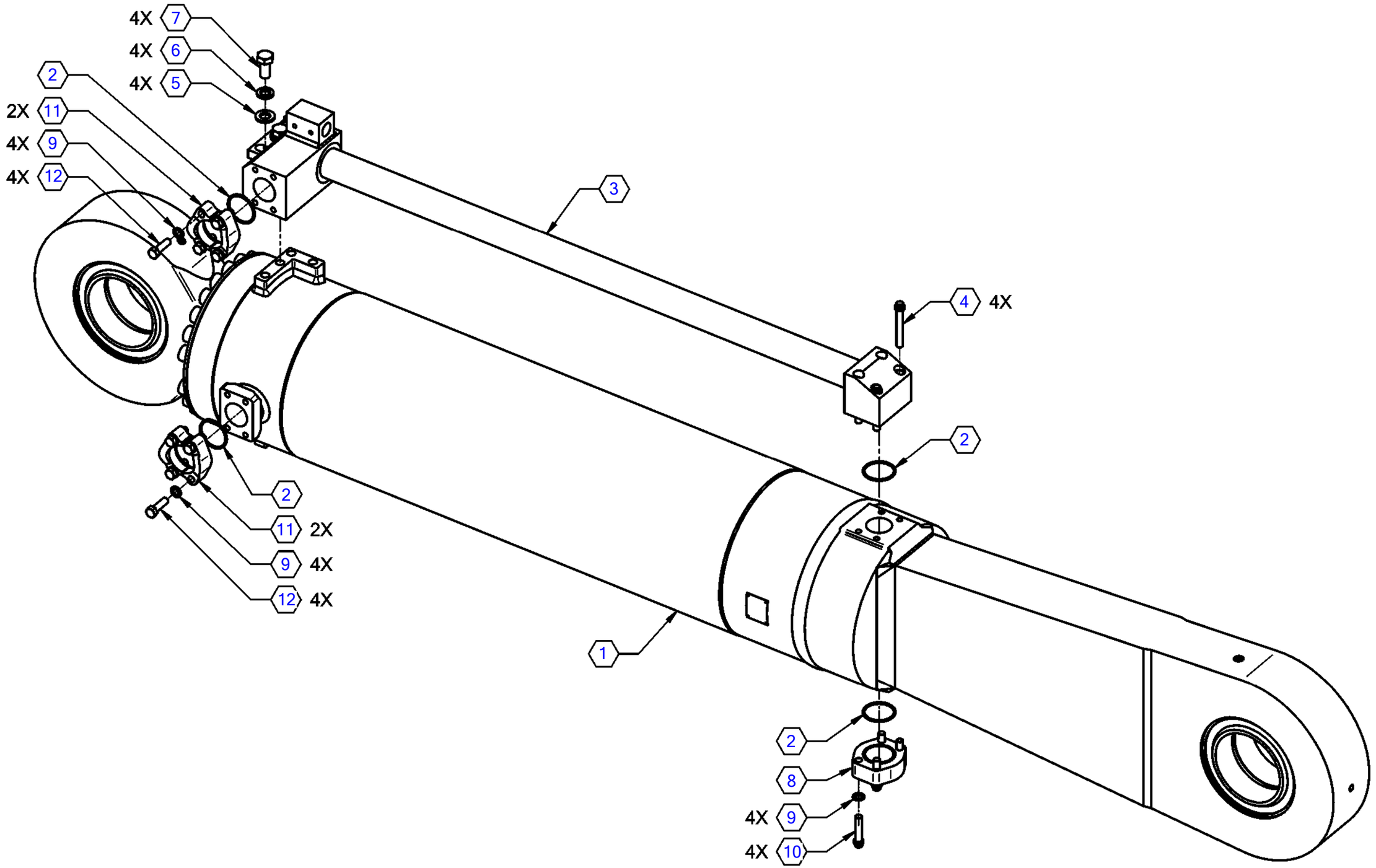
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BUCKET CYLINDER ASSEMBLY WITH TUBE - R.H.



428026800

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BUCKET CYLINDER ASSEMBLY WITH TUBE - R.H.

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BUCKET CYLINDER ASSEMBLY WITH TUBE - R.H.

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280268		BUCKET CYLINDER ASSEMBLY WITH TUBE - R.H.		
1	R4280267	1	· BUCKET CYLINDER ASSEMBLY - HIGH LIFT (PAGE 8.15-8.15C)		
2	R4071255	4	· O-RING, 2-1/4" I.D. - POLYURETHANE		
3	R4237960	1	· PIPE STRUCTURE, BUCKET CYLINDER - R.H.		
4	R4152343	4	· CAPSCREW, 1/2"-13 X 3-1/2"		
5	R4016046	4	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		
6	R0021542	4	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
7	R4009523	4	· BOLT, 3/4"-10 X 1-1/2"		
8	R4223136	1	· PLUG, 2" SF		
9	R4210349	12	· FLATWASHER, 1/2" - HARDENED		
10	R4001873	4	· CAPSCREW, 1/2"-13 X 2-1/4"		
11	R4186402	4	· FLANGE HALF, 2"		
12	R0824790	8	· BOLT, 1/2"-13 X 1-3/4"		
		REF	BUCKET CYLINDER ASSEMBLY WITH TUBE - R.H. (R428026800)		

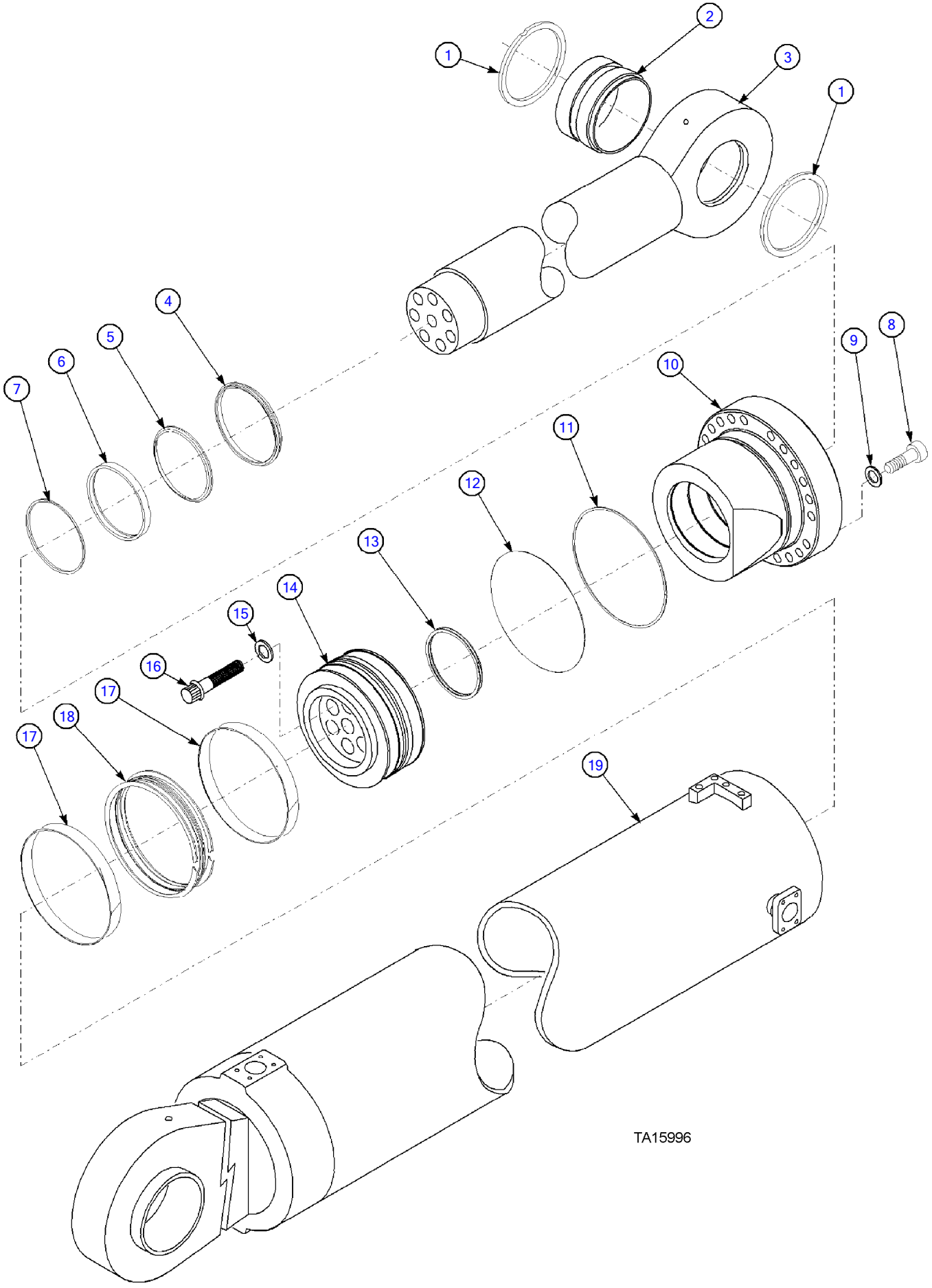
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BUCKET CYLINDER ASSEMBLY



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BUCKET CYLINDER ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280267		BUCKET CYLINDER ASSEMBLY - HIGH LIFT		2/8/16
1	R4093490	4	· RING, RETAINING - INTERNAL - 9" O.D.		2/8/16
2	R6964139	2	· BUSHING, SELF-ALIGNING - 6" I.D. X 8-3/4" O.D.		2/8/16
	R4271195	1	· BUCKET CYLINDER ASSEMBLY		
3	R4241226	1	· · ROD STRUCTURE		
4	R4271201	1	· · WIPER, 7" X 8" X 1/2"		
5	R4241224	1	· · SEAL, U-CUP		
6	R4241228	1	· · SEAL, U-CUP		
7	R4241223	1	· · SEAL, ROD BUFFER - 7"		
8	R4273319	22	· · CAPSCREW, 3/4"-10 X 4-1/2" - SOCKET HD.		
9	R4271218	1	· · RETAINER PLATE		
10	R4271231	1	· · HEAD, FRONT		
11	R4241239	1	· · RING, BACK-UP		
12	R4271221	1	· · O-RING		
13	R4244676	1	· · O-RING		
	R4244677	2	· · RING, BACK-UP		
14	R4241203	1	· · PISTON		
15	R4242939	8	· · FLATWASHER, 1" X 1-1/2"		
16	R4273320	8	· · CAPSCREW, 1"-8 X 6"		
17	R4241237	2	· · RING, WEAR		
18	R4241238	1	· · SEAL, PISTON		
19	R4271194	1	· · TUBE STRUCTURE		
	R4241242	REF	SEAL KIT, INCLUDES ITEMS 4, 5, 6, 7, 11, 12, 13, 17 & 18		

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AIR SYSTEM

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASED	NL12-1508	1-12-12	JFM	AY	AY

TO ATMOSPHERE

TO ENGINE

TO ENGINE

AIR PIPE

TO KLENZ

KLENZ TANK

COMPRESSOR

TO ATMOSPHERE

HYD TANK STAND PIPE

AIR FILTER GROUP

FRONT FRAME RESERVOIR

REAR BRAKE RESERVOIR

DISTRIBUTION TANK

TO CAB BLOWGUN

AIR RESERVOIR GROUP

BRAKE VALVE GROUP

FRONT AXLE GROUP

REAR AXLE GROUP

ITEM	PART NO	QTY	DESCRIPTION
102	416-2499	3	BREATHER VENT
101	-		
100	-		
99	425-8480	1	MOUNT PLATE AIR DRYER
98	-		
97	-		
96	026-4174	2	LOCKWASHER 5/16
95	074-4049	2	BOLT HH 5/16-18 UNC X 2-3/4
94	406-2643	1	HOSE 2750 4 188.0 0J 0J
93	404-0658	1	FTG HYD 0 8 MJ 12 MP JUMP
92	-		
91	400-2424	2	ADAPTER STRAIGHT 1 MJ X 1 MP
90	415-5482	3	HOSE 250 4 10.0 0J 0J
89	424-4820	1	HOSE 2250 6 300.0 0J 0J
88	403-2315	7	TEE 3/8 FP
87	408-2649	1	HOSE 2250 6 152.0 0J 0J
86	425-6308	2	FTH HYD 0 4 MP 12 MP
85	427-3487	5	FTG HYD 0 12MO 12FP
84	406-2639	1	HOGC 1000 16 26.0 0J 0J
83	415-6131	1	HOSE 2750 4 110.0 0J 0J
82	404-0654	1	FTG HYD 90 8MJ 12MO JUMP
81	426-1746	1	HOSE 1200 12 120.0 0J 0J SS
80	421-3975	2	HOSE 250 4 200.0 0J 0J
79	415-9778	1	HOSE 2000 8 166.0 0J 90J
78	027-2969	2	PIPE PLG 250 CS HX
77	421-0358	1	HOSE 2750 4 230.0 0J 90J
76	-		
75	426-7504	1	ASSY MANIFOLD REAR FRAME
74	418-6115	1	HOSE 2000 8 232.0 0J 90J
73	403-1412	2	FTG HYD 0 10 MO 12 MJ
72	424-4889	2	FTG HYD 90 12 MJ 12 FJ MOD
71	421-3508	1	HOSE 2000 8 136.0 0J 90J
70	416-3776	1	HOSE 2000 8 176.0 0J 90J
69	424-4790	2	VALVE CHECK EXHAUST ASY
68	406-3332	1	FTG HYD TE 4MJ 4MP 4FJ
67	403-2420	1	FTG HYD 0 8MJ 8MP JUMP
66	406-9123	1	HOSE 1000 16 62.0 0J 0J
65	400-2438	3	FTG HYD 90 6 MJ 4 MP
64	408-1386	10	FTG HYD 90 12 MJ 10 MO
63	401-7544	1	HOSE 2750 4 17.0 0J 0J
62	-		
61	419-3350	1	BUSHING, REDUCING, 1 X 3/4
60	401-3787	4	PIPE RED .375 .250 BSH 6000
59	021-3417	1	PIPE ELB 1.000 90
58	400-2422	8	FTG HYD 0 12 MJ 12 MP
57	400-2473	1	FTG HYD 90 12MJ 12MO
56	403-1553	2	PLUG HX 12MO
55	427-0697	1	AIR RESERVOIR
54	415-3284	1	HOSE 2250 6 376.0 0J 0J
53	006-8402	4	PLUG 3/8 NPT
52	425-5493	REF	KIT TRANSMITTER PRES 50 PSIG
51	425-5496	REF	KIT TRANSMITTER PRES 5000 PSIG
50	424-4753	4	FTG HYD 0 12 FJ 12 MP SWV
49	425-5494	REF	KIT TRANSMITTER PRES 200 PSIG
48	924-2071	1	HOSE 2250 6 28.0 0J 0J
47	405-1616	2	STR/ADPT 3/8MJX3/8MJ BULKHEAD
46	894-8185	1	FTG HYD TE 4 MJ 4 MP 4 MJ
45	-		
44	400-2457	2	FTG HYD 0 12MJ 12MO
43	400-2478	6	FTG HYD 90 8 MJ 8 FJ SWVL
42	404-3024	2	FTG HYD TE 6 MJ 4 MP 6 MJ
41	097-9138	1	ADAPTER 90°1/4 MJ X 1/8 MP
40	500-1457	1	FTG HYD 0 4 MJ 6 FJ
39	406-9124	2	HOSE 2250 6 14.0 0J 0J
38	425-6383	6	VALVE RELAY R12 ARCTIC
37	052-7116	1	ADAPTER STRAIGHT 3/8 MJ X 1/4 MP
36	401-1744	1	FTG HYD 90 8 MJ 8 MP JUMP
35	403-2316	6	TEE 1/2
34	400-2441	13	FTG HYD 90 12 MJ 12 MP
33	097-8632	3	ADAPTER STRAIGHT 1/4 MJ X 1/8 MP
32	404-1344	1	FTG HYD 0 4 MP 2 MP
31	427-3497	6	FTG HYD 0 12 MO 8 MP
30	401-8888	3	FTG HYD 0 8 MJ 8 MP
29	-		
28	698-9418	1	HOSE 2750 4 34.0 0J 0J
27	-		
26	416-9196	1	DUMP VALVE
25	427-1109	1	AIR BOX
24	424-4754	2	CHECK VALVE AIR 3/4
23	421-3618	1	HORN
22	424-8784	REF	DISC - 22 OD X 1 LARGE BRAKE
21	423-4611	REF	HUB BRAKE B40
20	424-0108	REF	CARRIER AND LINING ASSEMBLY
19	403-2313	4	PIPE HYD NIP 8 MP 8 MP HX
18	401-2924	REF	WELD COUPLING 3/4 NPT
17	424-0101	REF	TORQUE TUBE RIGHT MACHINED
16	424-0102	REF	BRAKE ACTUATOR MOUNT
15	424-8969	REF	BRAKE SPRING CYLINDER
14	424-0106	REF	MOUNT CALIPER
13	424-0103	REF	TORQUE TUBE LEFT MACHINED
12	-		
11	416-3058	1	PRESSURE SWITCH
10	426-1177	3	AIR SOLENOID-24V
9	424-3743	1	HOSE 2750 4 131.0 0J 0J
8	424-3530	2	HOSE 1250 12 22.0 0J 90J
7	407-8315	2	HOSE 1250 12 30.0 0J 0J
6	427-4390	1	VALVE ASSY BRAKE
5	425-5667	3	RELIEF VALVE AIR 175 PSI
4	425-8482	REF	DESICCANT CARTRIDGE (SERVICE PART)
3	426-4801	1	DRYER AIR BENDIX
2	426-1543	1	COMPRESSOR
1	427-0695	3	AIR RESERVOIR

ITEM	PART NO	QTY	DESCRIPTION
148	424-3502	2	HOSE 1250 12 25.0 0J 90J
147	422-6500	1	HOSE 1250 12 25.0 0J 0J
146	400-7414	2	MOUNTING BRACKET
145	411-7472	6	CLAMP BRACKET
144	401-1756	6	FTG HYD 0 6 MJ 6 MP JUMP
143	403-2507	1	PIPE RED 1/2X3/8
142	416-5712	1	BALL VAL 3-WAY 1/2NPT
141	400-2483	2	FTG HYD 90 16 MJ 16 FJ SWV
140	411-6444	4	FTG HYD 90 4 MJ 4 FJ
139	415-3288	1	HOSE 2750 4 120.0 0J 0J
138	401-3786	4	PIPE RED .500 .25
137	412-8048	1	FTG HYD TEE 12 MJ 12 FJ 12 MJ
136	-		
135	418-8472	1	HOSE 2750 4 168.0 0J 0J
134	407-8933	1	FTG HYD 90 4 MJ 2 MP 1.2 LG
133	401-1748	5	FTG HYD 90 4 MJ 4 MP JUMP
132	422-3146	1	HOSE 300 8 98.0 0J
131	421-3537	1	HOSE 1000 16 80.0 0J
130	411-6390	2	HOSE 2750 4 224.0 0J 0J
129	418-9287	1	ANGLE STR AIR BLEED
128	415-2842	7	BALL VALVE .375 NPT
127	403-2312	8	NIPPLE 3/8 NPT
126	695-3864	6	ADAPTER 90°1/4 MJ X 3/8 MP
125	415-5483	1	HOSE 250 4 12.0 0J 0J
124	-		
123	422-2057	1	HOSE 1250 12 20.0 0J 0J
122	-		
121	-		
120	-		
119	-		
118	403-2314	1	TEE 1/8 FP
117	-		
116	-		
115	401-6785	4	FTG HYD 0 4 MJ 4 MP
114	695-2697	3	FTG HYD 0 4 MJ 8 MP
113	406-3332	1	FTG HYD TE 4 MJ 4 MJ 4FJ
112	415-6388	1	HOSE 1250 12 178.0 0J 0J
111	-		
110	-		
109	401-4580	1	FTG HYD 0 4 MJ 4 MO
108	414-8929	2	HOSE 1250 12 156.0 0J 0J
107	414-3974	1	HOSE 2250 6 200.0 0J 0J
106	415-8758	1	HOSE 1250 12 162.0 0J 0J
105	400-2434	1	FTG HYD 45 16 MJ 16 MP
104	422-3265	1	HOSE 1250 12 140.0 0J 90J
103	411-6605	1	HOSE 1250 12 194.0 0J 0J

ITEM	PART NO	QTY	DESCRIPTION
176	-		
175	422-3012	1	HOSE 2750 4 252.0 0J 0J
174	426-1747	1	STR DRAIN MOUNT
173	403-1401	4	PIPE HYD ST ELB 90 8 MP 8 FP
172	404-0582	3	FTG HYD 0 4 MJ 6 MP JUMP
171	425-6309	1	FTG HYD 0 6 MP 12 MP
170	-		
169	-		
168	426-4809	REF	FTG HYD 90 8 MJ 18 MMO
167	423-6760	REF	STR, AIR TUBE, FRONT AXLE
166	400-2443	1	FTG HYD 90 16 MJ 16 MP
165	400-2479	REF	FTG HYD 90 8 MJ 8 FJ
164	425-8262	1	FTG HYD 0 16 MJ 27 MMO
163	424-3562	1	FTG HYD 0 12 MJ 22 MMO
162	-		
161	-		
160	-		
159	410-4834	REF	HOSE 2000 8 234.0 0J 0J
158	400-2481	2	FTG HYD 90 12 MJ 12 FJ SWVL
157	415-3281	1	HOSE 2250 6 32.0 0J 0J
156	417-2292	1	HOSE 1250 12 28.0 0J 90J
155	401-5753	14	FTG HYD 0 12 MJ 8 MP JUMP
154	403-2510	1	HOSE 1250 12 21.0 0J 0J
153	411-6607	1	HOSE 1250 12 19.0 0J 0J
152	417-7380	2	HOSE 1250 12 26.0 0J 0J
151	422-2038	2	HOSE 1250 12 30.0 0J 90J
150	407-9178	2	HOSE 1250 12 32.0 0J 0J
149	426-7944	1	GOVERNOR AIR COMPRESSOR

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.010
- MACHINED CORNERS 1/64 X 45°.
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON CONTRACT NO

DWN	J.MARTIN	1-12-12
CHK	A.YAO	1-12-12
ENGR	A.YAO	1-12-12
PROD ENGR	A.YAO	1-12-12
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

BRAKE CONTROLS L-13502203&UP LARGE BRAKE/BENDIX

SIZE	DWG NO	REV
E	4270990	00

DO NOT SCALE

SCALE 1/1 SHT WT SHEET 1 OF 2

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AIR SYSTEM

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASED	NL12-1506	1-12-12	JFM	AY	AY

AIR SUPPLY XDR AS
TO CAB BLOWER GUN
SOL AH
AIR HORN
GOVERNOR SEE NOTE 2
FILTER - DRYER ASSEMBLY
STAINLESS STEEL HOSE
DLU VALVE
COMPRESSOR
FROM COOLING AIR FLOW TO FRONT AXLE
RELIEF 175 PSI
DISTRIBUTION RESERVOIR
MANUAL DRAIN
RELIEF 175 PSI
AIR RESERVOIR REAR BRAKES
AIR RESERVOIR FRONT BRAKES
MANUAL DRAIN
MANUAL DRAIN
RELIEF 175 PSI
SERVICE BRAKE FRONT XDR SB1
RELAY VALVE SERVICE BRAKE FRONT
PARK BRAKE FRONT XDR PB1
PARK BRAKE FRONT SOL PB1
SPRING BRAKE CYLINDERS FRONT LEFT
RELAY VALVE PARK BRAKE FRONT
SPRING BRAKE CYLINDERS FRONT RIGHT
RELAY VALVE SERVICE BRAKE FRONT
SERVICE BRAKE REAR XDR SB2
RELAY VALVE SERVICE BRAKE REAR
PARK BRAKE REAR XDR PB2
PARK BRAKE REAR SOL PB2
SPRING BRAKE CYLINDERS REAR LEFT
RELAY VALVE PARK BRAKE REAR
SPRING BRAKE CYLINDERS REAR RIGHT
RELAY VALVE SERVICE BRAKE REAR
DUAL BRAKE VALVE FRONT
DUAL BRAKE VALVE REAR
MANUAL BLEED DOWN VALVE
MANUAL BLEED DOWN VALVE

AIR REGULATOR BOX
RELIEF VALVE
12 PSI
90 PSI
KLENZ SUPPLY REGULATOR
4-6PSI
HYD RESERVOIR SUPPLY REGULATOR
KLENZ AIR SUPPLY (SOL KA)
HYDRAULIC RESERVOIR AIR SUPPLY (SOL HA)
MANUAL SHUT OFF
MANUAL SHUT OFF
HYD TANK AIR DUMP (SOL TD)
.060
.125
MANIFOLD
KLENZ RESERVOIR (XDR KR)
AIR RESERVOIR KLENZ
FROM DISTRIBUTION RESERVOIR
TO GROUND
TO KLENZ MANIFOLD
TO HYDRAULIC RESERVOIR
TO AUTOMATIC DUMP VALVE
TO/FROM KLENZ RESERVOIR

SOL K1–K7
PULSE VALVE
SAMPLE KLENZ PULSE VALVE & SOLENOID. QUANTITY VARIES BY MACHINE
HYDRAULIC RESERVOIR AIR (XDR HA)
AUTOMATIC DUMP VALVE
MANUAL DRAIN AIR
HYDRAULIC RESERVOIR

NOTE:

1. THIS SCHEMATIC IS FOR GEN II OF L-1350, L-1850 AND L- 2350.
2. FOR L-1350 AND L-1850, THE GOVERNOR IS SET TO 125 PSI. FOR L-2350, THE GOVERNOR IS SET TO 140 PSI.

BRAKE CONTROLS L-1350 LRG BRK					
DRAWN J.MARTIN	E	DO NOT SCALE	DWG NO 4270990	REV 00	
DRAWN 1-12-12	SCALE 1/1	WT	SHEET 2 OF 2		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
NOTE: Many of the parts for factory-installed optional components are found in Section 9 of the Parts Catalog, which is titled "MISCELLANEOUS".					
It is essential to verify the optional equipment on the machine and check the parts lists in Section 9 prior to ordering parts.					
Should there be questions or need for additional information concerning parts for factory-installed options, contact the Joy Global Parts Sales Department before placing an order.					
	R4288528		AIR SYSTEM		11/12/13
1	R4270895	3	· RESERVOIR, AIR - 10" O.D. X 30-3/4" - S.S.		
2	R4261543	1	· COMPRESSOR, AIR - 922, 31.6 CFM		
	R4270858	1	· · VALVE, SAFETY - 250 PSI, 16 MM X 1.5		
3	R4264801	1	· DRYER, AIR		
4	R4258482	1	· · DESICCANT CARTRIDGE		
	R4258492	1	· · HARNESS KIT, AIR DRYER		
	R4258490	1	· · VALVE, DELIVERY CHECK KIT		
	R4258484	1	· · HEATER AND THERMOSTAT KIT, 24V		
	R4258483	1	· · VALVE, PURGE KIT		
5	R4255667	3	· VALVE, RELIEF - 175 PSI		
6	R4274390	REF	· VALVE, BRAKE		
	R4002175	1	· · VALVE, BRAKE		
	R4124937	1	· · · REPAIR KIT		
7	R4078315	2	· HOSE ASSEMBLY, #12 X 30"		
8	R4243530	2	· HOSE ASSEMBLY, #12 X 22"		
9	R4243743	1	· HOSE ASSEMBLY, #4 X 131"		
10	R4261177	3	· SOLENOID KIT, AIR - 24V		11/12/13
	R4039803	3	· · SOLENOID, AIR - 24V		11/12/13
	R4255415	3	· · RECEPTACLE, DT04-2P		11/12/13
	R4255416	3	· · WEDGE, W2P		11/12/13
	R4185763	6	· · PIN, CONTACT - 16		11/12/13
11	R4163058	1	· SWITCH, PRESSURE - 70 PSI, 1 N.O./1 N.C.		
12	N.P.N.		· NOT USED		
13	R4240103	REF	· TORQUE TUBE, L.H. (PAGE 8.21-8.21A)		
14	R4240105	REF	· CALIPER MOUNT		
15	R4248969	REF	· BRAKE, SPRING - CYLINDER (PAGE 8.21-8.21B)		
16	R4240102	REF	· ACTUATOR MOUNT, BRAKE		
17	R4240101	REF	· TORQUE TUBE, R.H.		
18	R4012924	REF	· COUPLING, WELD - 3/4"		
19	R4032313	4	· NIPPLE, PIPE - 1/2", HEX		
20	R4240108	REF	· BRAKE PAD		
21	R4234511	REF	· BRAKE HUB		
22	R4248784	REF	· BRAKE DISC, 22" O.D. X 1"		
23	R4213818	1	· HORN, AIR		
24	R4244754	2	· VALVE, CHECK - 3/4"		
25	R4271109	1	· AIR BOX ASSEMBLY (PAGE 8.46-8.46A)		
26	R4189196	1	· VALVE, AIR - 2-WAY N.C.		
27	N.P.N.		· NOT USED		
28	R6989418	1	· HOSE ASSEMBLY, #4 X 34"		
29	N.P.N.		· NOT USED		
30	R4018666	3	· ADAPTER, 1/2" MP X #8 MJ		
31	R4273497	6	· ADAPTER, #12 MO X 3/8" MP		
32	R4041344	1	· REDUCER, 1/8" MP X 1/4" MP		
33	R0978632	3	· ADAPTER, 1/8" MP X #4 MJ		
34	R4002441	13	· ELBOW, 3/4" MP X 90 deg. X #12 MJ		
35	R4032316	6	· TEE, 1/2" FP		
36	R4011744	1	· ELBOW, 1/2" MP X 90 deg. X #6 MJ		
37	R0527116	1	· ADAPTER, 1/4" MP X #6 MJ		
38	R4256383	6	· VALVE, RELAY - R12 BENDIX		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
39	R4069124	2	· HOSE ASSEMBLY, #6 X 14"		
40	R5001457	1	· ADAPTER, #6 FJ X #4 MJ		
41	R0979138	1	· ELBOW, 1/8" MP X 90 deg. X #4 MJ - SWIVEL		
42	R4043024	2	· TEE, #6 MJ X 1/4" MP X #6 MJ		
43	R4002478	6	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
44	R4002457	2	· ADAPTER, #12 MO X #12 MJ		
45	N.P.N.		· NOT USED		
46	R6946165	1	· TEE, #4 MJ X 1/4" MP X #4 MJ		
47	R4051616	2	· ADAPTER, #6 MJ X #6 MJ - BULKHEAD		
48	R9242071	1	· HOSE ASSEMBLY, #6 X 28"		
49	R4255494	REF	· TRANSMITTER KIT, PRESSURE - 0-200 PSI		
	R4255489	REF	· · TRANSMITTER, PRESSURE - 0-200 PSI		
	R4255449	REF	· · CABLE ASSEMBLY, TURCK - 4-PIN 250V 0.9M		
50	R4244753	4	· ADAPTER, 3/4" MP X #12 FJ - SWIVEL		
51	R4255496	REF	· TRANSMITTER KIT, PRESSURE - 5000 PSI		
	R4255491	REF	· · TRANSMITTER, PRESSURE - 0-5000 PSI		
	R4255449	REF	· · CABLE ASSEMBLY, TURCK - 4-PIN 250V 0.9M		
52	R4255493	REF	· TRANSMITTER KIT, PRESSURE - 50 PSI		
	R4255488	REF	· · TRANSMITTER, PRESSURE - 0-50 PSI		
	R4255449	REF	· · CABLE ASSEMBLY, TURCK - 4-PIN 250V 0.9M		
53	R0088402	4	· PLUG, PIPE - 3/8", HEX CSK.		
54	R4153284	1	· HOSE ASSEMBLY, #6 X 376"		
55	R4270897	1	· RESERVOIR, AIR - 7" O.D. X 16-1/2" - S.S.		
56	R4031553	2	· PLUG, #12 MO		
57	R4002473	1	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
58	R4002422	8	· ADAPTER, 3/4" MP X #12 MJ		
59	R0213417	1	· ELBOW, 1" FP X 90 deg. X 1" FP		
60	R4013787	4	· BUSHING, 1/4" FP X 3/8" MP		
61	R4193350	1	· BUSHING, 3/4" FP X 1" MP		
62	N.P.N.		· NOT USED		
63	R4017544	1	· HOSE ASSEMBLY, #4 X 17"		
64	R4081386	10	· ELBOW, #10 MO X 90 deg. X #12 MJ		
65	R4002438	3	· ELBOW, 1/4" MP X 90 deg. X #6 MJ		
66	R4069123	1	· HOSE ASSEMBLY, #16 X 52"		
67	R4002420	1	· ADAPTER, 3/8" MP X #8 MJ		
68	R4063332	1	· TEE, #4 MJ X #4 MJX #4 FJ - SWIVEL		
69	R4244790	2	· VALVE ASSEMBLY, CHECK - EXHAUST		
70	R4163776	1	· HOSE ASSEMBLY, #8 X 176"		
71	R4213508	1	· HOSE ASSEMBLY, #8 X 136"		
72	R4244689	2	· ELBOW, #12 FJ X 90 deg. X #12 MJ		
73	R4021412	2	· ADAPTER, #10 MO X #12 MJ		
74	R4186115	1	· HOSE ASSEMBLY, #8 X 232"		
75	R4267504	1	· TRANSDUCER MANIFOLD ASSEMLBY, REAR		
76	N.P.N.		· NOT USED		
77	R4210358	1	· HOSE ASSEMBLY, #4 X 230"		
78	R0272969	2	· PLUG, PIPE - 1/4", HEX CSK.		
79	R4158778	1	· HOSE ASSEMBLY, #8 X 166"		
80	R4213975	2	· HOSE ASSEMBLY, #4 X 200"		
81	R4261746	1	· HOSE ASSEMBLY, #12 X 120" - S.S.		
82	R4040563	1	· ELBOW, 1/4" MP X 90 deg. X #8 MJ		
83	R4186131	1	· HOSE ASSEMBLY, #4 X 110"		
84	R4082839	1	· HOSE ASSEMBLY, #16 X 26"		
85	N.P.N.		· NOT USED		
86	R4256308	2	· ADAPTER, 1/4" MP X 3/4" MP		
87	R4082849	1	· HOSE ASSEMBLY, #6 X 152"		
88	R4032315	3	· TEE, 3/8" FP		
89	R4244820	1	· HOSE ASSEMBLY, #6 X 300"		
90	R4155482	3	· HOSE ASSEMBLY, #4 X 10"		

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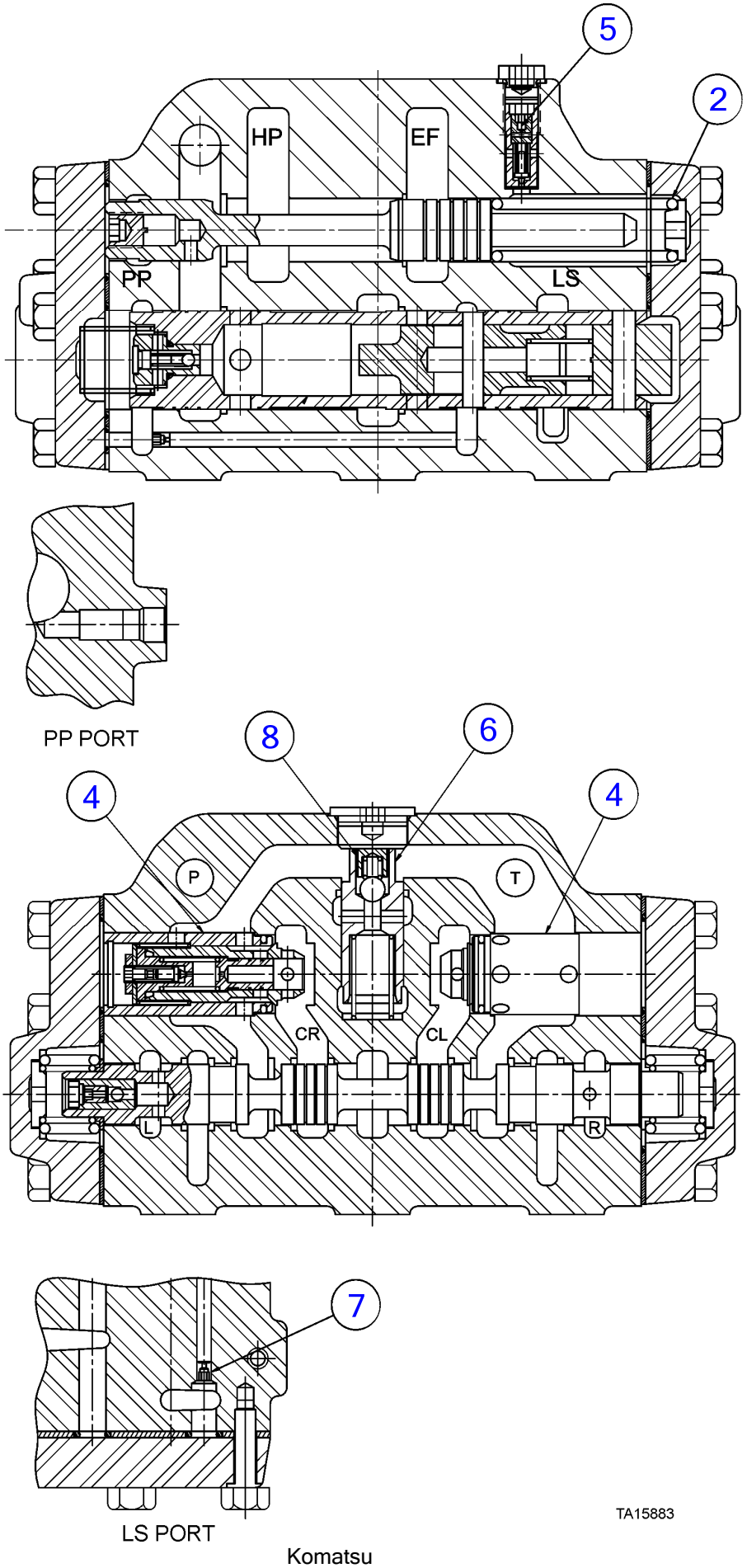
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
91	R4002424	2	· ADAPTER, 1" MP X #16 MJ		
92	N.P.N.		· NOT USED		
94	R4031038	1	· HOSE ASSEMBLY, #4 X 66"		
95	R0744049	2	· BOLT, 5/16"-18 X 2-3/4"		
96	R0264174	2	· LOCKWASHER, 5/16"		
97	N.P.N.		· NOT USED		
98	N.P.N.		· NOT USED		
99	R4258480	1	· MOUNT PLATE, AIR DRYER		
100	N.P.N.		· NOT USED		
101	N.P.N.		· NOT USED		
102	R4162499	3	· BREATHER, 1/4"-18		
103	R4116605	1	· HOSE ASSEMBLY, #12 X 194"		
104	R4223265	1	· HOSE ASSEMBLY, #12 X 140"		
105	R4002434	1	· ELBOW, 1" MP X 45 deg. X #16 MJ		
106	R4158757	1	· HOSE ASSEMBLY, #6 X 162"		
107	R4143974	1	· HOSE ASSEMBLY, #6 X 200"		
108	R4148929	3	· HOSE ASSEMBLY, #12 X 156"		
109	R4014580	1	· ADAPTER, #4 MO X #4 MJ		
110	N.P.N.		· NOT USED		
111	N.P.N.		· NOT USED		
112	R4156388	1	· HOSE ASSEMBLY, #12 X 178"		
113	R4063332	1	· TEE, #4 MJ X #4 MJ X #4 FJ - SWIVEL		
114	R6952697	3	· ADAPTER, 1/2" MP X #4 MJ		
115	R4016785	4	· ADAPTER, 1/4" MP X #4 MJ		
116	N.P.N.		· NOT USED		
117	N.P.N.		· NOT USED		
118	R4032314	1	· TEE, 1/8" FP		
119	N.P.N.		· NOT USED		
120	N.P.N.		· NOT USED		
121	N.P.N.		· NOT USED		
122	N.P.N.		· NOT USED		
123	R4222057	1	· HOSE ASSEMBLY, #12 X 20"		
124	N.P.N.		· NOT USED		
125	R4155483	1	· HOSE ASSEMBLY, #4 X 12"		
126	R6953864	6	· ELBOW, 3/8" MP X 90 deg. X #4 MJ		
127	R4032312	8	· NIPPLE, PIPE - 3/8", HEX		
128	R4152842	7	· VALVE, BALL - 3/8"		
129	R4189287	1	· MOUNT STRUCTURE, AIR BLEED VALVE		
130	R4116390	2	· HOSE ASSEMBLY, #4 X 224"		
131	R4213537	1	· HOSE ASSEMBLY, #16 X 80"		
132	R4223146	1	· HOSE ASSEMBLY, #8 X 98"		
133	R4011748	5	· ELBOW, 1/4" MP X 90 deg. X #4 MJ		
134	R4078933	1	· ELBOW, 1/8" MP X 90 deg. X #4 MJ X 1-3/16"		
135	R4186472	1	· HOSE ASSEMBLY, #4 X 168"		
136	N.P.N.		· NOT USED		
137	R4126046	1	· TEE, #12 MJ X #12 FJ X #12 MJ		
138	R4013788	4	· BUSHING, 1/4" FP X 1/2" MP		
139	R4153288	1	· HOSE ASSEMBLY, #4 X 120"		
140	R4116444	4	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
141	R4002483	2	· ELBOW, #16 FJ X 90 deg. X #16 MJ - SWIVEL		
142	R4165712	1	· VALVE, BALL - 3-WAY, 1/2"		
143	R4032507	1	· REDUCER, 1/2" MP X 3/8" MP		
144	R4011756	6	· ADAPTER, 3/8" MP X #6 MJ		
145	R4117472	6	· BRACKET, AIR RESERVOIR		
146	R4007414	2	· BRACKET, MOUNTING		
147	R4226500	1	· HOSE ASSEMBLY, #12 X 25"		
148	R4243502	2	· HOSE ASSEMBLY, #12 X 25"		
149	R4267944	1	· GOVERNOR MODULE ASSEMBLY		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4267943	1	· GOVERNOR		
	R4265902	1	· ADAPTER, 1/8" FP X 10 MMO		
150	R4079178	2	· HOSE ASSEMBLY, #12 X 32"		
151	R4222038	2	· HOSE ASSEMBLY, #12 X 30"		
152	R4177380	2	· HOSE ASSEMBLY, #12 X 26"		
153	R4116607	1	· HOSE ASSEMBLY, #12 X 19"		
154	R4032510	1	· HOSE ASSEMBLY, #12 X 21"		
155	R4015753	14	· ADAPTER, 1/2" MP X #12 MJ		
156	R4172292	1	· HOSE ASSEMBLY, #12 X 28"		
157	R4153281	1	· HOSE ASSEMBLY, #6 X 32"		
158	R4002481	2	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
159	R4104834	REF	· HOSE ASSEMBLY, #8 X 234"		
160	N.P.N.		· NOT USED		
161	N.P.N.		· NOT USED		
162	N.P.N.		· NOT USED		
163	R4243562	1	· ADAPTER, 22 MMO X #12 MJ		
164	R4255252	1	· ADAPTER, 27 MMO X #16 MJ		
165	R4002479	REF	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
166	R4002443	1	· ELBOW, 1" MP X 90 deg. X #16 MJ		
167	R4236760	REF	· TUBE STRUCTURE, 12" O.D.		
168	R4264809	REF	· ELBOW, 18 MMO X 90 deg. X #8 MJ		
169	N.P.N.		· NOT USED		
170	N.P.N.		· NOT USED		
171	R4256309	1	· ADAPTER, 3/8" MP X 3/4" MP		
172	R4040562	3	· ADAPTER, 3/8" MP X #4 MJ		
173	R4031401	4	· ELBOW, 3/8" FP X 90 deg. X 3/8" MP		
174	R4261747	1	· DRAIN MOUNT STRUCTURE		
175	R4223012	1	· HOSE ASSEMBLY, #4 X 252"		
176	N.P.N.		· NOT USED		
		REF	DIAGRAM AND SCHEMATIC, BRAKE CONTROLS (R427099000)		

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STEERING VALVE ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4270856	1	STEERING VALVE ASSEMBLY		7/18/14
1	R4116620	1	· SEAL KIT		
2	R4116639	1	· SPRING, VALVE - PRIORITY		
3	N.P.N.		· NOT USED		6/26/14
4	R4271024	1	· VALVE ASSEMBLY, CIRCUIT RELIEF - 4000 PSI		7/18/14
5	R4116624	1	· VALVE ASSEMBLY, MAIN RELIEF		
6	R4123564	1	· VALVE ASSEMBLY, COUNTER PRESSURE		
7	R4123704	1	· SCREW, ORIFICE		
8	R4123705	1	· PLUG		
9	R4278419	1	· SEAL KIT, SHOCK AND SUCTION VALVE		
	R4219622	REF	DANFOSS TEST BLOCK ASSEMBLY		
			THE PROCEDURE TO PRESET YOUR SHOCK AND SUCTION VALVE USING THE DANFOSS TEST BLOCK ASSEMBLY		
			CAN BE FOUND IN THE SERVICE MANUAL.		
		REF	DRAWING, STEERING VALVE ASSEMBLY (R427085607)		6/26/14

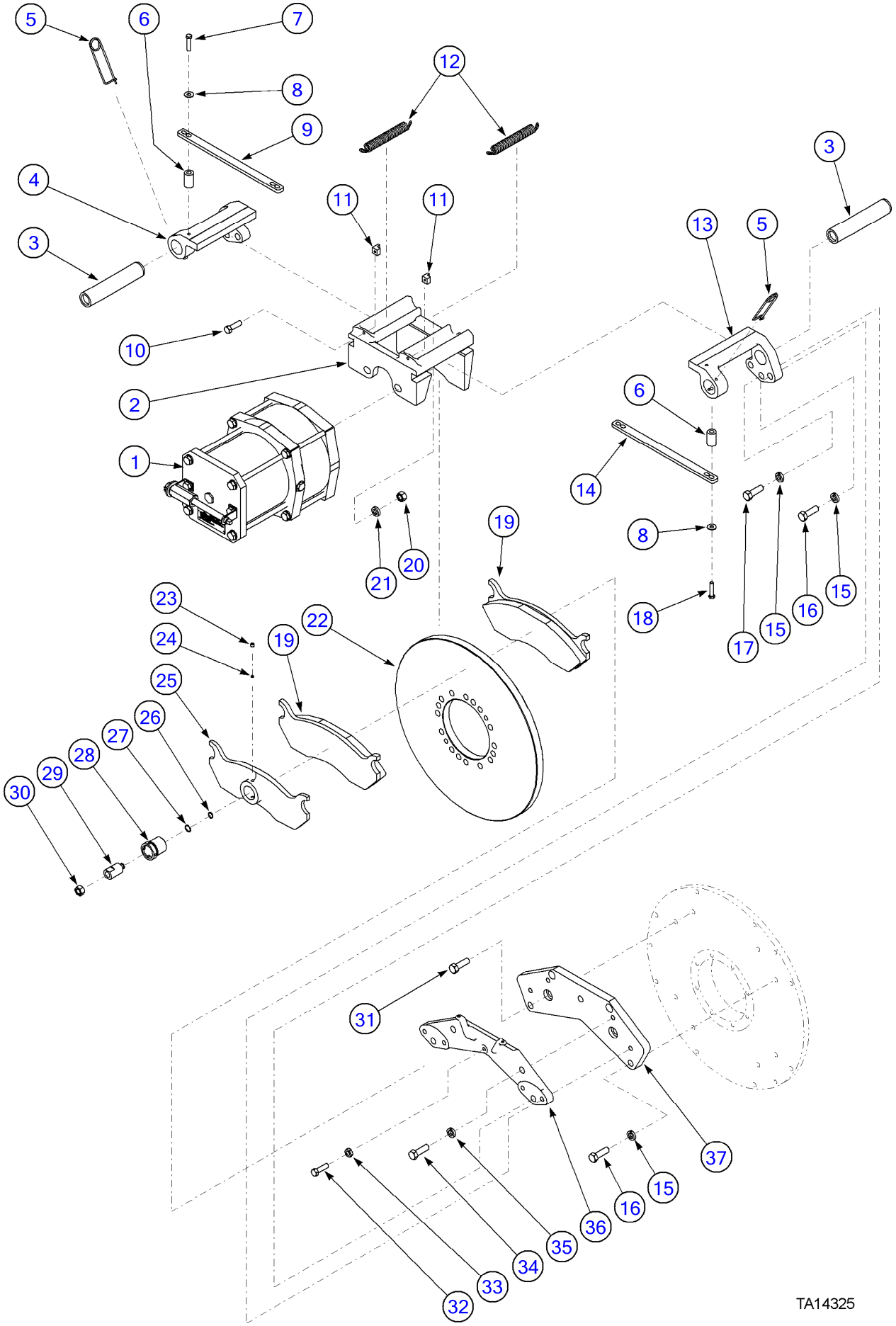
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR BRAKE CALIPER ASSEMBLY



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AIR BRAKE CALIPER ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289554		BRAKE CALIPER ASSEMBLY		8/24/18
1	R4248969	1	· BRAKE ACTUATOR CYLINDER ASSEMBLY (PAGE 8.21-8.21B)		
2	R4240102	1	· MOUNT STRUCTURE, CALIPER		
3	R4240110	2	· PIN, GUIDE		
4	R4240101	1	· TUBE, TORQUE - R.H.		
5	R4240104	2	· PIN CLIP, SAFETY		
6	R4239307	4	· SPACER		
7	R4009645	4	· BOLT, 3/8"-16 X 3"		
8	R4223102	4	· FLATWASHER, 3/8" I.D. X 1" O.D. X 1/16" - CONICAL		
9	R4255597	1	· BAR, RETAINER - SHORT		
10	R4248733	2	· BOLT, 5/16"-18 X 2-1/4" - FULL THREAD		
11	R4248730	2	· MOUNTING BLOCK, SPRING		
12	R4240109	2	· SPRING		
13	R4240103	1	· TUBE, TORQUE - L.H.		
14	R4239306	1	· BAR, RETAINER - LONG		
15	R0021541	16	· LOCKWASHER, 5/8"		
16	R0021631	4	· BOLT, 5/8"-11 X 2-1/4"		
17	R0021641	2	· BOLT, 5/8"-11 X 4-1/2"		
18	R4009644	2	· BOLT, 3/8"-16 X 2-3/4"		
19	R4293961	2	· DISC PAD, BRAKE		8/24/18
20	R0021528	2	· NUT, 3/4"-16		
21	R0021542	2	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
22	R4289552	1	· BRAKE DISC, 18" X 3/4"		
23	R0186429	1	· SETSCREW, 3/8"-16 X 3/8"		
24	R4102197	1	· INSERT, THREAD LOCKING - 1/4" DIA. X 1/8"		
25	R4240107	1	· CLAMP PLATE, CALIPER		
26	R0603123	1	· RING, RETAINING - EXTERNAL		
27	R4241845	1	· FLATWASHER, 5/8" X 1-1/16" X 1/16"		
28	R4241844	1	· SLEEVE, ADJUSTING		
29	R4240111	1	· BOSS, SWIVEL - 3/4"-16		
30	R4256387	1	· JAMNUT, 3/4"-16		
31	R0021630	2	· BOLT, 5/8"-11 X 2"		
32	R4183718	1	· BOLT, 1/2"-13 X 2-3/4" - FULL THREAD		
33	R4013750	1	· JAMNUT, 1/2"-13		
34	R0021629	2	· BOLT, 5/8"-11 X 1-3/4"		
35	R4223105	2	· FLATWASHER, 5/8" I.D. X 1-3/4" O.D. X 1/8" - CONICAL		
36	R4289657	1	· MOUNT, CALIPER		
37	R4289828	1	· MOUNT ADAPTER, CALIPER		8/24/18
			DRAWING, BRAKE CALIPER ASSEMBLY (428955402)		8/24/18

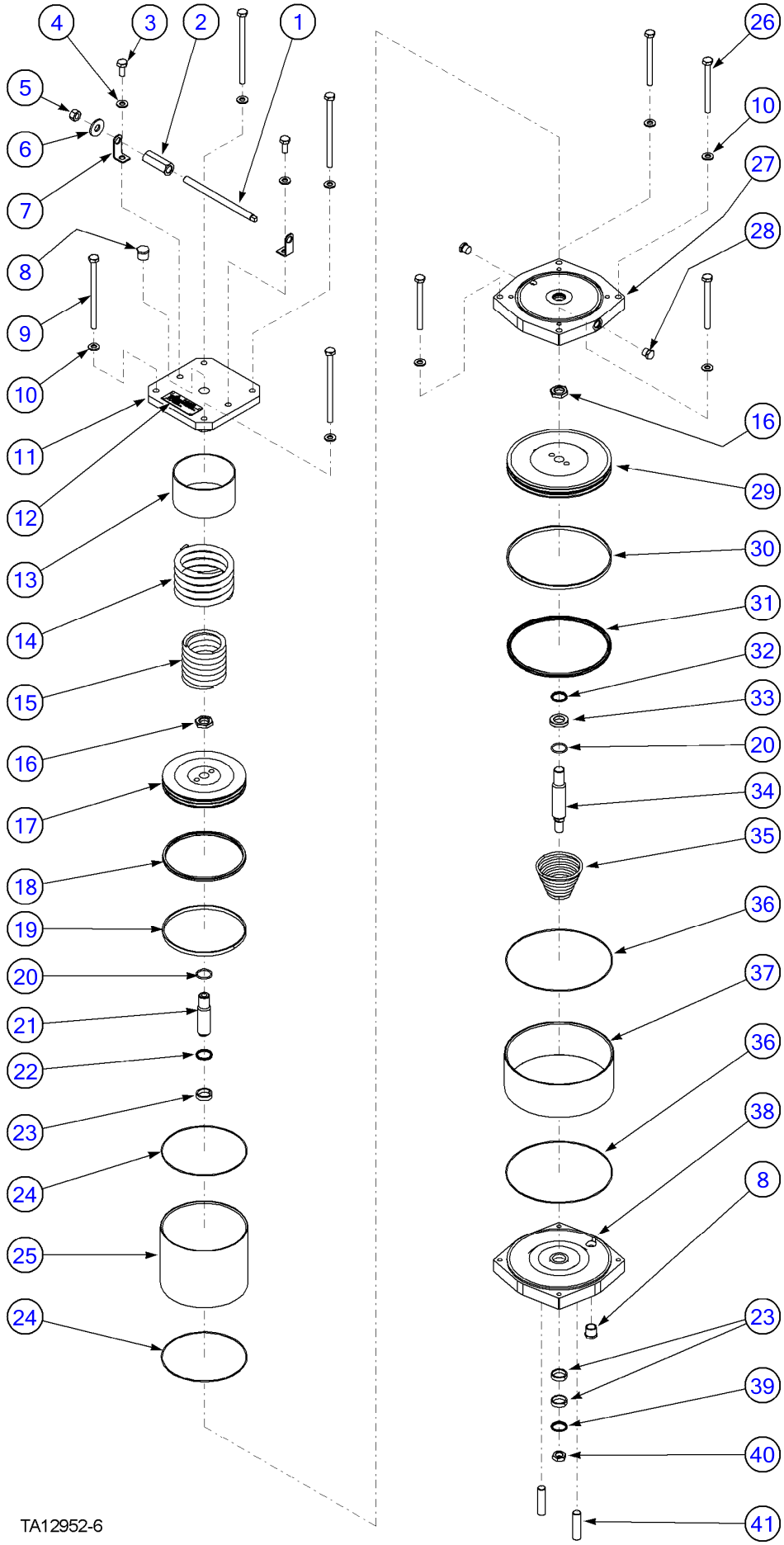
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BRAKE ACTUATOR CYLINDER ASSEMBLY



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BRAKE ACTUATOR CYLINDER ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4248969		BRAKE ACTUATOR CYLINDER ASSEMBLY		9/19/19
1	R4239176	1	· ROD, JACK - 5/8"-11		
2	R4239175	1	· NUT, JACK - 5/8"-11		
3	R0824766	2	· BOLT, 3/8"-16 X 1/2"		
4	R0753123	2	· LOCKWASHER, 3/8"		
5	R4010920	1	· NUT, 5/8"-11		
6	R0271979	1	· FLATWASHER, 5/8"		
7	R4239174	2	· BRACKET, MOUNT		
8	R4248749	2	· BREATHER		
9	R4222239	4	· BOLT, 1/2"-13 X 8"		
10	R0810991	8	· FLATWASHER, 1/2" X 1" X 1/8"		
11	R4248738	1	· END CAP, 8"		
12	R4275712	1	· PLATE, SAFETY - BRAKE SPRING - 6 LANGUAGE		9/19/19
	R4279628	1	· PLATE, SAFETY - BRAKE SPRING - TURKISH		9/19/19
13	R4248746	1	· TUBE, STOP		
14	R4239166	1	· SPRING, HEAVY		
15	R4239167	1	· SPRING, BOOST		
16	R4248748	2	· JAMNUT, 1"-12		
17	R4248737	1	· PISTON, 8"		
18	R4256375	1	· SEAL, PISTON - 8"		2/5/09
19	R4248759	1	· RING, WEAR - PISTON, 8"		
20	R4256385	2	· O-RING		3/14/06
21	R4248745	1	· ROD, CYLINDER - REAR		
22	R4256374	1	· SEAL, ROD		3/14/06
23	R4248758	3	· RING, WEAR - ROD, 1-1/4"		
24	R4256381	2	· O-RING		3/14/06
25	R4248740	1	· TUBE, HOUSING - 8"		
26	R4222260	4	· BOLT, 1/2"-13 X 5-3/4"		
27	R4248968	1	· PLATE, SUPPORT - MIDDLE		
28	R4040566	4	· PLUG, #10 MO		
29	R4248736	1	· PISTON, 10"		
30	R4248760	1	· RING, WEAR - PISTON, 10"		
31	R4256373	1	· SEAL, PISTON - 10"		3/14/06
32	R4256384	1	· O-RING		3/14/06
33	R4248747	1	· SPACER, STOP		
34	R4248743	1	· ROD, CYLINDER - FRONT		
35	R4248752	1	· SPRING, RETURN		
36	R4256382	2	· O-RING		3/14/06
37	R4248742	1	· TUBE, HOUSING - 10"		
38	R4248734	1	· END CAP, 10"		
39	R4256380	1	· WIPER, ROD		3/14/06
40	R0506863	1	· JAMNUT, 3/4"-16		
41	R4239168	2	· STUD, MOUNTING - 3/4"-16 X 3"		
			NOTE:		
	R4256376		· SEAL KIT INCLUDES ITEMS:		3/14/06
			· 18, 19, 20, 22, 23, 24, 30, 31 32, 36 & 39		
	R4248795	REF	PRESS ASSEMBLY, BRAKE ACTUATOR CYLINDER	1	10/19/06
	R4248794	REF	· FRAME STRUCTURE, BRAKE PRESS	1	10/19/06
	R4248797	REF	· CYLINDER, PORTA POWER	1	10/19/06
	R4248796	REF	· PLATE, PUSH - BRAKE PRESS	1	10/19/06
	R4256461	REF	· SPACER, BRAKE PRESS	1	10/19/06

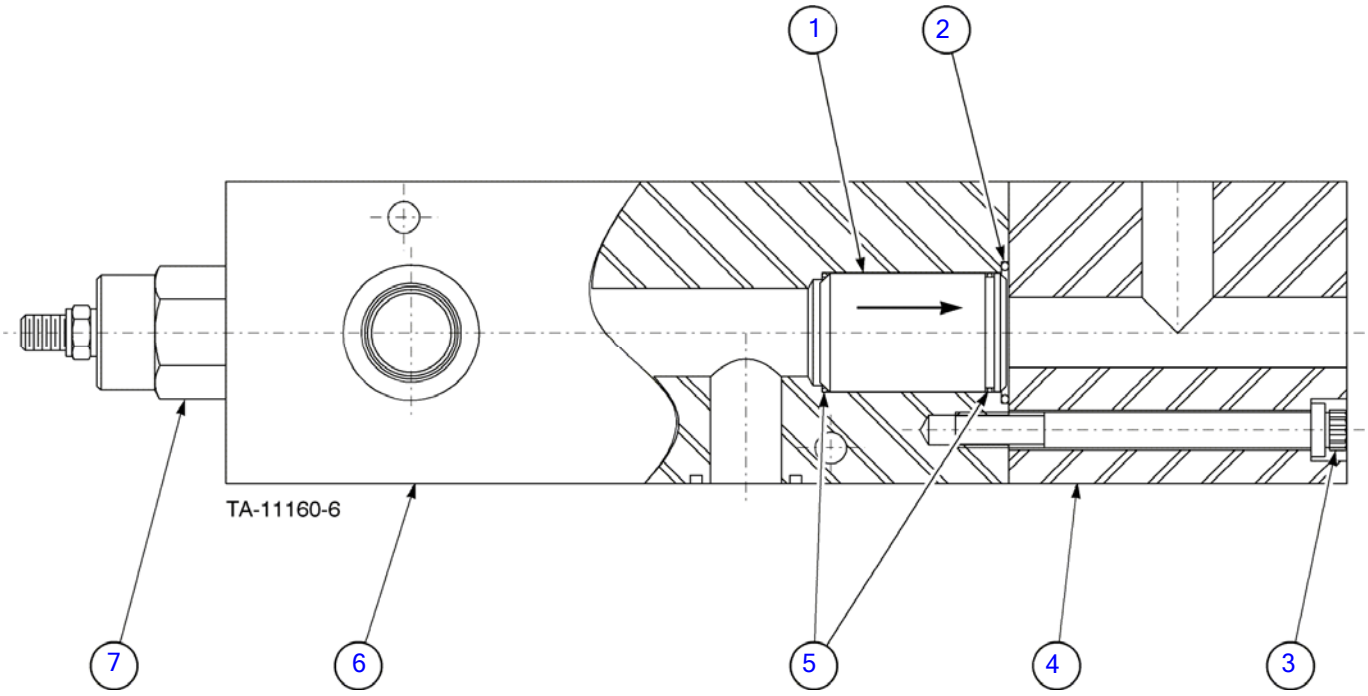
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STEERING JUNCTION VALVE ASSEMBLY



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STEERING JUNCTION VALVE ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4248914		STEERING JUNCTION VALVE ASSEMBLY		
1	R4138033	1	· VALVE, CHECK		
2	R4131587	1	· O-RING, 1-3/4" I.D. - POLYURETHANE		
3	R4001881	4	· CAPSCREW, 1/2"-13 X 5"		
4	R4248913	1	· HOUSING		
5	R4138036	2	· O-RING, 1-1/2" I.D. - POLYURETHANE		
6	R4238231	1	· HOUSING, WITH RELIEF VALVE MOUNT		
7	R4172123	1	· VALVE, RELIEF - VENTED		
			DRAWING, STEERING JUNCTION VALVE ASSEMBLY (R424891403)		

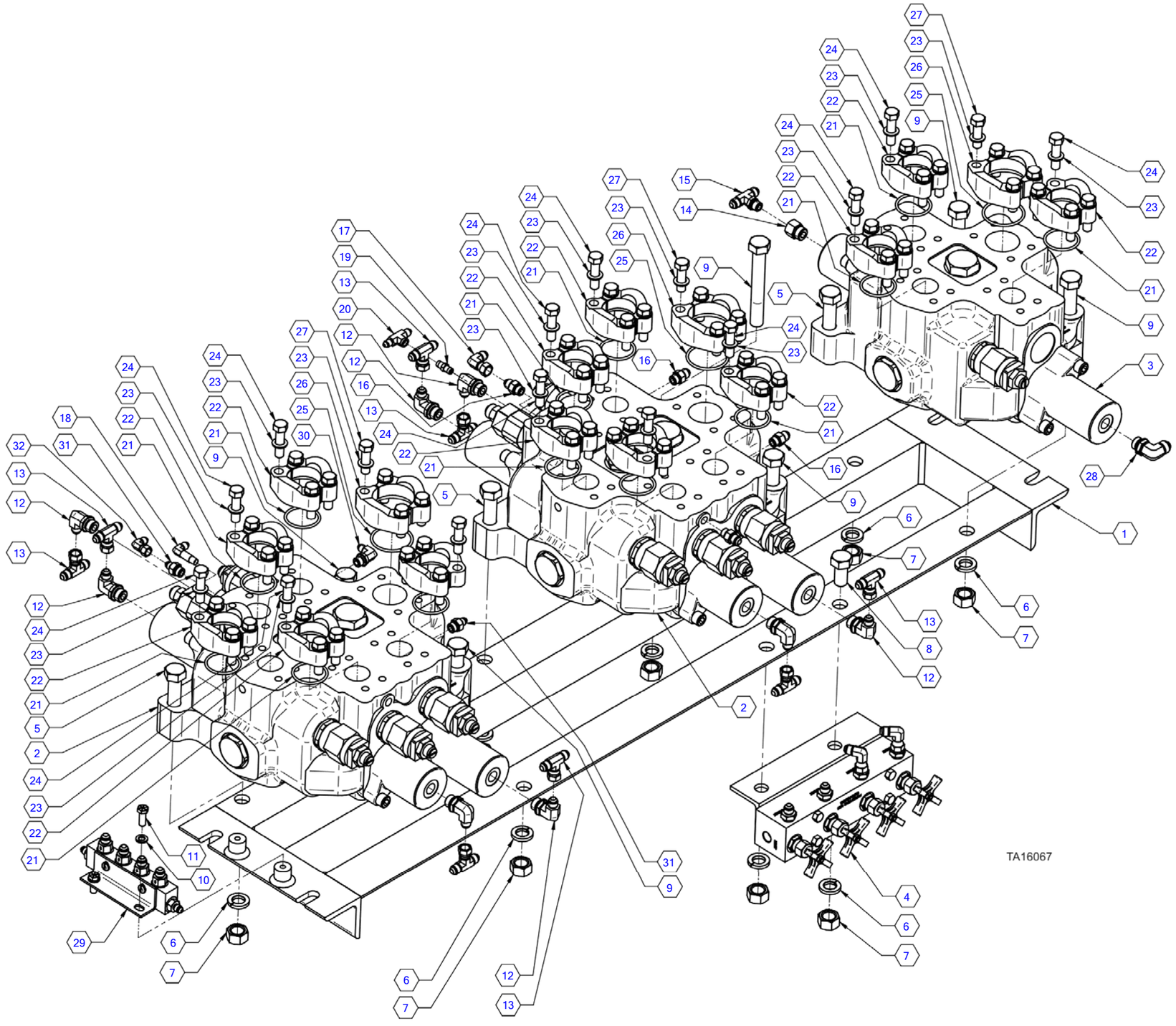
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MAIN CONTROL VALVES ASSEMBLY



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MAIN CONTROL VALVES ASSEMBLY

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4278026		MAIN CONTROL VALVES ASSEMBLY		
1	R4261774	1	· MOUNT STRUCTURE, MAIN VALVE		
2	R4248685	2	· VALVE, CONTROL - DUAL (PAGE 8.3-8.3A)		
3	R4248686	1	· VALVE, CONTROL - SINGLE (PAGE 8.4-8.4A)		
4	R4278035	1	· VALVE ASSEMBLY, MAIN BLEED		
	R4248840	1	· · VALVE ASSEMBLY, MAIN BLEED		
	R4284602	1	· · · SEAL KIT, BLEED VALVE		
	R4284603	4	· · · VALVE, NEEDLE CARTRIDGE		
	R4011756	4	· · ADAPTER, 3/8" MP X #6 MJ		
	R4002420	1	· · ADAPTER, 3/8" MP X #8 MJ		
	R4002478	2	· · ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
	R4261735	1	· · MOUNT, BLEED VALVE		
	R0801173	4	· · BOLT, 3/8" X 3-1/4"		
	R0753123	4	· · LOCKWASHER, 3/8"		
	R0812921	4	· · NUT, 3/8"-16		
5	R0021651	3	· BOLT, 3/4"-10 X 3-3/4"		
6	R0021542	10	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
7	R0021527	10	· NUT, 3/4"-10		
8	R4009820	1	· BOLT, 3/4"-16 X 1-1/2"		
9	R0021657	6	· BOLT, 3/4"-10 X 5-1/2"		
10	R0753123	2	· LOCKWASHER, 3/8"		
11	R0810971	2	· BOLT, 3/8"-16 X 1"		
12	R4017400	8	· ELBOW, #8 MO X 90 deg. X #6 MJ - ADJ.		
13	R4177038	8	· TEE, #6 MJ X #6 MJ X #6 FJ		
14	R4103836	1	· REDUCER, #6 FO X #8 MO		
15	R4043032	1	· TEE, #6 MJ X #6 MO X #6 MJ		
16	R4002454	4	· ADAPTER, #6 MO X #6 MJ		
17	R4002478	1	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
18	R6947581	1	· ELBOW, 1/8" MP X 90 deg. X #4 MJ X 1-1/2" LONG		
19	R4030297	1	· ADAPTER, 1/8" MP X 1/8" MP		
20	R4261628	1	· TEE, #4 MJ X #4 MJ X 2 FP		
21	R4068358	13	· O-RING, 1-7/8" I.D. - POLYURETHANE		
22	R4186401	26	· FLANGE HALF, 1-1/2"		
23	R4210349	64	· FLATWASHER, 1/2" - HARDENED		
24	R0827222	52	· BOLT, 1/2"-13 X 2"		
25	R4071255	3	· O-RING, 2-1/4" I.D. - POLYURETHANE		
26	R4186402	6	· FLANGE HALF, 2"		
27	R0824790	12	· BOLT, 1/2"-13 X 1-3/4"		
28	R4002471	1	· ELBOW, #8 MO X 90 deg. X #8 MJ - ADJ.		
29	R4273449	1	· MANIFOLD ASSEMBLY, MAIN VALVE		
	R4273443	1	· · MANIFOLD ASSEMBLY, MAIN VALVES		
	R4261627	4	· · VALVE, CHECK - #6 MO X #6 MJ		
	R4039499	1	· · ADAPTER, #6 MO X #4 MJ		
	R4261624	1	· · ADAPTER, #6 MO X #4 MJ - WITH ORIFICE		
	R4273450	1	· · MOUNT BRACKET, MANIFOLD		
	R0506807	2	· · LOCKWASHER, 1/4" - EXTERNAL, TOOTH		
	R0817104	2	· · SCREW, 1/4"-20 X 1/2"		
30	R4040552	1	· ELBOW, #6 MO X 90 deg. X #4 MJ		
31	R4039499	2	· ADAPTER, #6 MO X #4 MJ		
32	R4116444	1	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
		REF	DRAWING, MAIN VALVES ASSEMBLY (R427802600)		

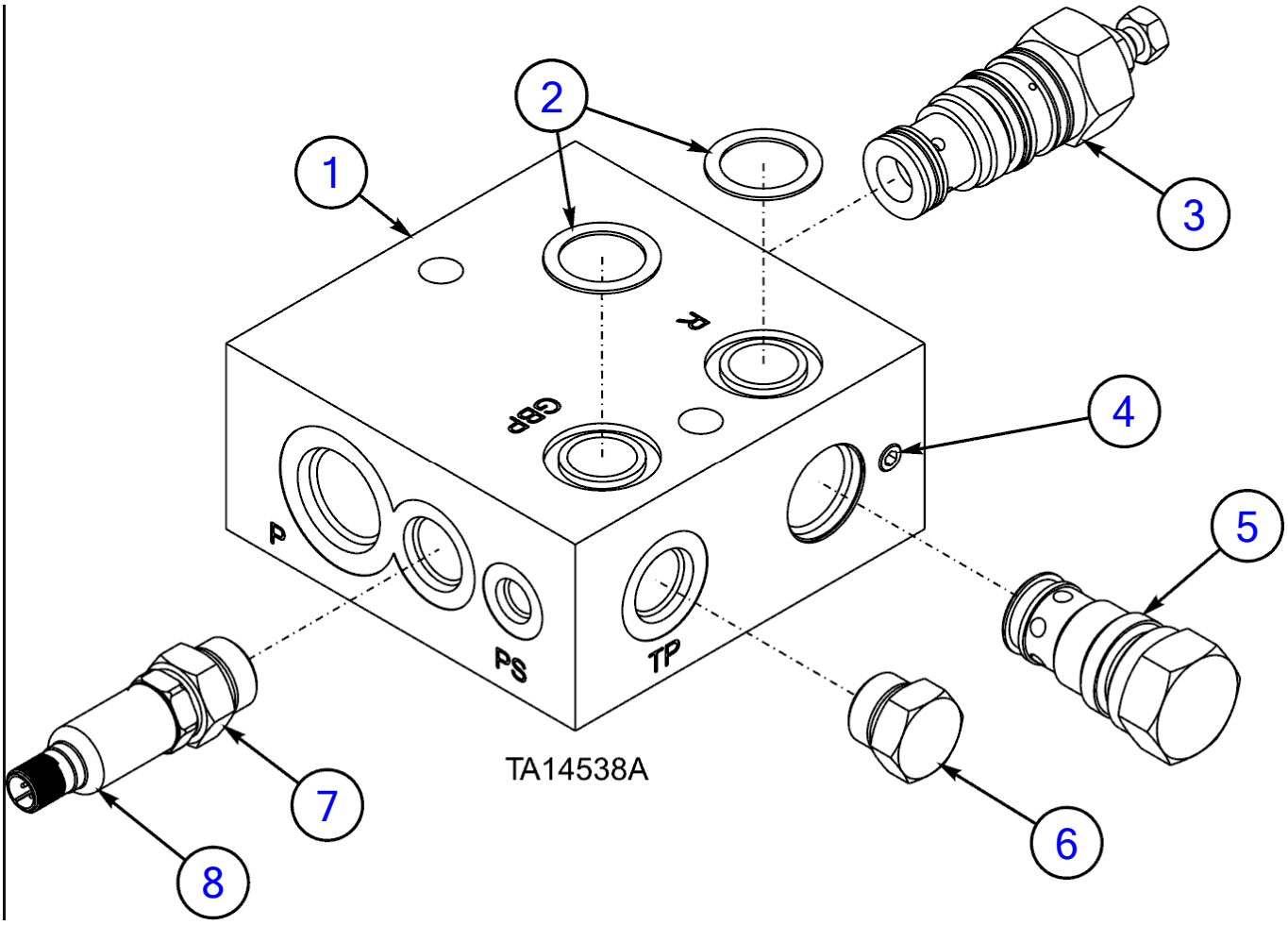
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GEARBOX CONTROL VALVE ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4256410		GEARBOX CONTROL VALVE ASSEMBLY		5/5/17
1	R4256408	1	· HOUSING		
2	R4002283	REF	· O-RING, 15/16" I.D. - BUNA N	2	5/5/17
3	R4256409	1	· VALVE, CARTRIDGE SEQUENCE		
4	R0403840	2	· PLUG, 1/16" - HEX CSK.		
5	R4138105	1	· CARTRIDGE, CHECK VALVE - 100 PSI		
6	R4020769	1	· PLUG, PIPE - #8 MO		
7	R4256411	1	· ADAPTER, #8 MO X 1/4-19 BSPP		
8	R4256107	1	· TRANSDUCER, TEMPERATURE - -13 deg. TO 212 deg. F		
			DRAWING, GEARBOX CONTROL VALVE ASSEMBLY (R425641001)		

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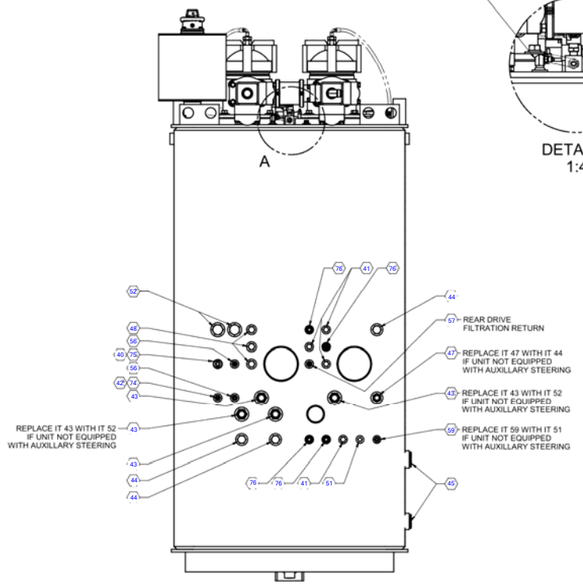
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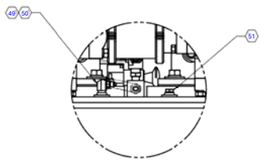
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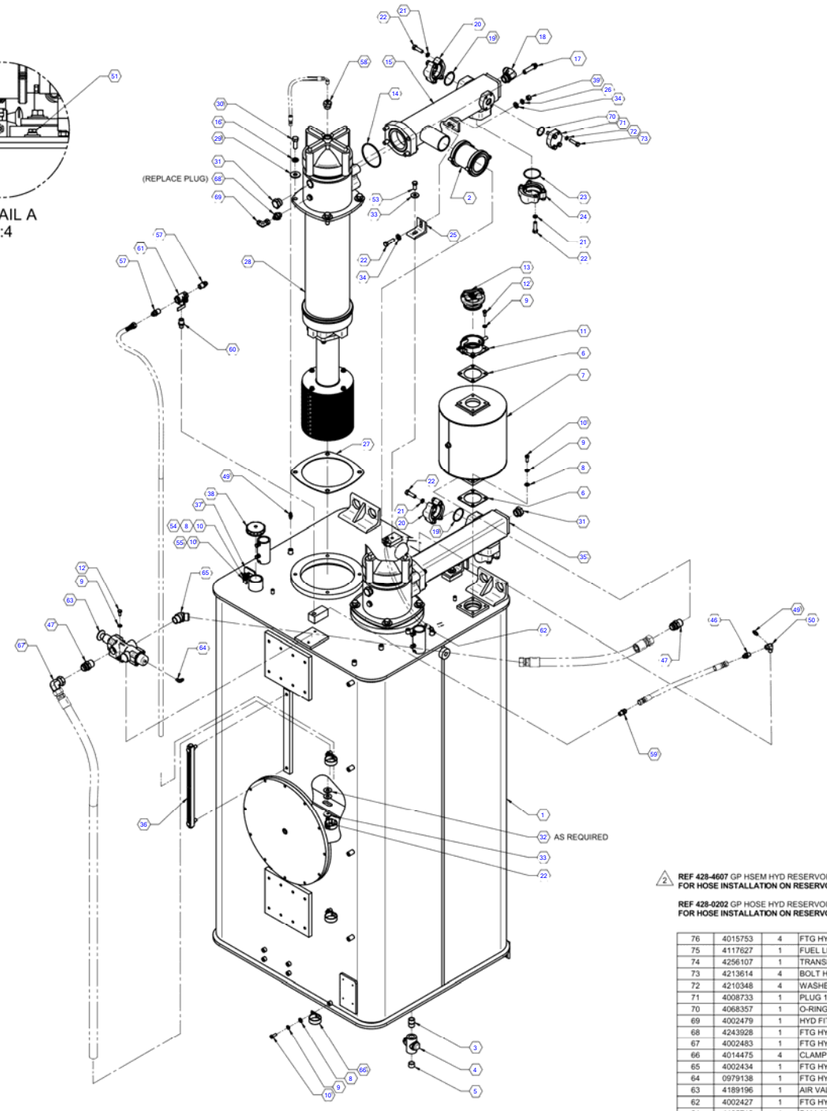
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REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG		CHK
	00	RELEASE	NL13-1602	2-4	TEW	JD	JD
	01	MRS #1595: QTY IT 41 WAS 6; QTY IT 44 WAS 1;					
	01	QTY IT 56 WAS 1; QTY IT 57 WAS 4; QTY IT 76					
	01	WAS 2; DELE IT 77 (4040561)	1311715	7-10-15	TEW	JBD	JBD
	02	ADD REF 428-4607 MDG HOSE GP NOTE	1321242	1-15-16	KMD	JBD	JBD







2 **REF 428-4607** GP HSEM HYD RESERVOIR L1350 G2 **FOR HOSE INSTALLATION ON RESERVOIR**

REF 428-0202 GP HOSE HYD RESERVOIR L1350 G2 **FOR HOSE INSTALLATION ON RESERVOIR**

ITEM	PART NO.	QTY	DESCRIPTION
76	4015753	4	FTG HYD 0 12 MJ 8 MP JUMP
75	4117627	1	FUEL LEVEL SWITCH LOW LEVEL
74	4256107	1	TRANSDUCER TEMP ETS7000
73	4213614	4	BOLT HX .438 1.750 NC G8
72	4210348	4	WASHER FLAT .438 .66 .13 HRD
71	4008733	1	PLUG 1-1/4 SF
70	4068357	1	O-RING, 1-1/4 SAE SPLIT FLANGE
69	4002479	1	HYD FITTING, 90-DEG 8 MJ 8 FJ
68	4243928	1	FTG HYD O 8 MJ 8 BSPP
67	4002483	1	FTG HYD 90 16 MJ 16 FJ SWV
66	4014475	4	CLAMP CABLE INSL 2.00 .406
65	4002434	1	FTG HYD 45 16 MJ 16 MP
64	0979138	1	FTG HYD 90 4 MJ 2 MP
63	4189196	1	AIR VALVE 2-WAY NC
62	4002427	1	FTG HYD 45 4 MJ 2 MP
61	4165712	1	BALL VALVE 3-WAY 1/2 NPT
60	4244985	1	FTG HYD 0 6 MP 8 MP
59	4002420	2	FTG HYD 0 8 MJ 6 MP
58	4243936	2	FTG HYD 0 4 MJ 12 MO
57	4018666	3	FTG HYD 0 8 MJ 8 MP JUMP
56	4040557	2	FTG HYD 0 6 MJ 8 MP JUMP
55	0985113	1	NUT LOCK NYL INS .375 NC
54	0812921	1	NUT HX 0.375-16UNC-2B G8 PL
53	0801180	2	BOLT HX .500 1.000 NC G8 FT
52	4223348	2	PIPE PLUG 1.250 OH HX
51	4013780	2	PIPE PLUG, .375 OH HX

ITEM	PART NO.	QTY	DESCRIPTION
50	4076637	1	FTG HYD 90 6MP 6FP ST MOD
49	0978632	2	FTG HYD 0 4MJ 1/8MP
48	4223339	3	PIPE PLUG .750 0H HX
47	4002424	3	FTG HYD 0 16 MJ 16 MP
46	4011756	1	FTG HYD 0 6 MJ 6 MP
45	4223353	2	PIPE PLG 2.000 OH HEX
44	4223340	3	PIPE PLUG HX 1.000
43	4002425	4	FTG HYD 0 20 MJ 20 MP
42	4244777	1	ADAPTER 1/2-14 NPT X 1/4-19 BSPP
41	4223338	4	PIPE PLUG .500 0H HEX
40	4013789	1	PIPE RED .500 .375 BSH 6000
39	0808489	2	NUT HX .500 NC
38	4102094	1	FILLER CAP
37	4122889	1	LATCH - FILLER NECK
36	4182773	1	LIQUID LEVEL GAUGE
35	4257629	1	STR MANIFOLD TUBE FRONT
34	0810991	4	WASHER FLAT .531 1.062 .121
33	4223104	4	WASHER CON .531 1.38 .15 HRD
32	0021549	4	WASHER FLAT .500 1.38 .13
31	4040567	3	PLUG, 1 JIC WITH O-RING
30	0021629	8	BOLT HX .625 1.750 NC G8
29	0271979	8	WASHER FLAT .625 1.750 .16
28	4237920	2	ASSY FILTER
27	4236946	2	SEAL 9.13 ID
26	0801181	2	WASHER LOCK SPR .500 .873 .125
25	4257648	2	MOUNT ANGLE MANIFOLD
24	4222106	4	FLANGE HALF 2-1/2 FORGED C61
23	4116301	2	O-RING 2-1/2 SAE SPLIT FLANGE
22	0824790	20	BOLT HX .500 1.750 NC G8
21	4210349	16	WASHER FLAT .531 .750 .125
20	4186402	4	FLANGE HALF 2.00 FORGED C61
19	4071255	2	O-RING, 2 SAE SPLIT FLANGE
18	4179645	1	FTG HYD 90 8MO 8MJ
17	4261508	8	CSCR FH M16 X 2.00 X 60.0 (2.36)
16	0021541	8	WASHER LOCK SPR .625 1.08 .16
15	4257627	1	STR MANIFOLD TUBE REAR
14	4123586	2	QUAD SEAL RING .139" X 4.359" ID
13	4256396	1	CAP ASSY - HYDRAULIC W/RELIEF
12	0810970	6	BOLT HX .375 .750 NC G8 FT
11	4102220	1	FILLER NECK - PLATED
10	0810971	10	BOLT HX .375 1.00 NC G8 FT
9	0753123	14	WASHER LOCK SPR .375 .68 .09
8	0808221	10	WASHER FLAT .375 .81 .08
7	4189195	1	STR HYD TANK STAND PIPE
6	4121119	2	GASKET FILLER NECK
5	4013957	1	PIPE PLUG MAGNETIC
4	4035388	1	DRAIN VALVE
3	4012819	1	PIPE NIP .750 1.500 700
2	4014480	1	TUBE JOINT STRAIGHT
1	4257646	1	STR HYDRAULIC RESERVOIR

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°; FRACTIONS ±1/16; XX DECIMAL ±.03; XXX DECIMAL ±.015
- MACHINED CORNERS .164 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 427-4726

DWN	twillis	10-19-2012
CHK	JBD	2-4-2013
ENGR		
PROD ENGR	JBD	2-4-2013
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HDW HYD RESERVOIR L1350 G2

SIZE E | DO O S LE | DWG NO 4280201 | REV 02

SCALE 1/8 | WT lbm 348.9 | SHEET 1 OF 1

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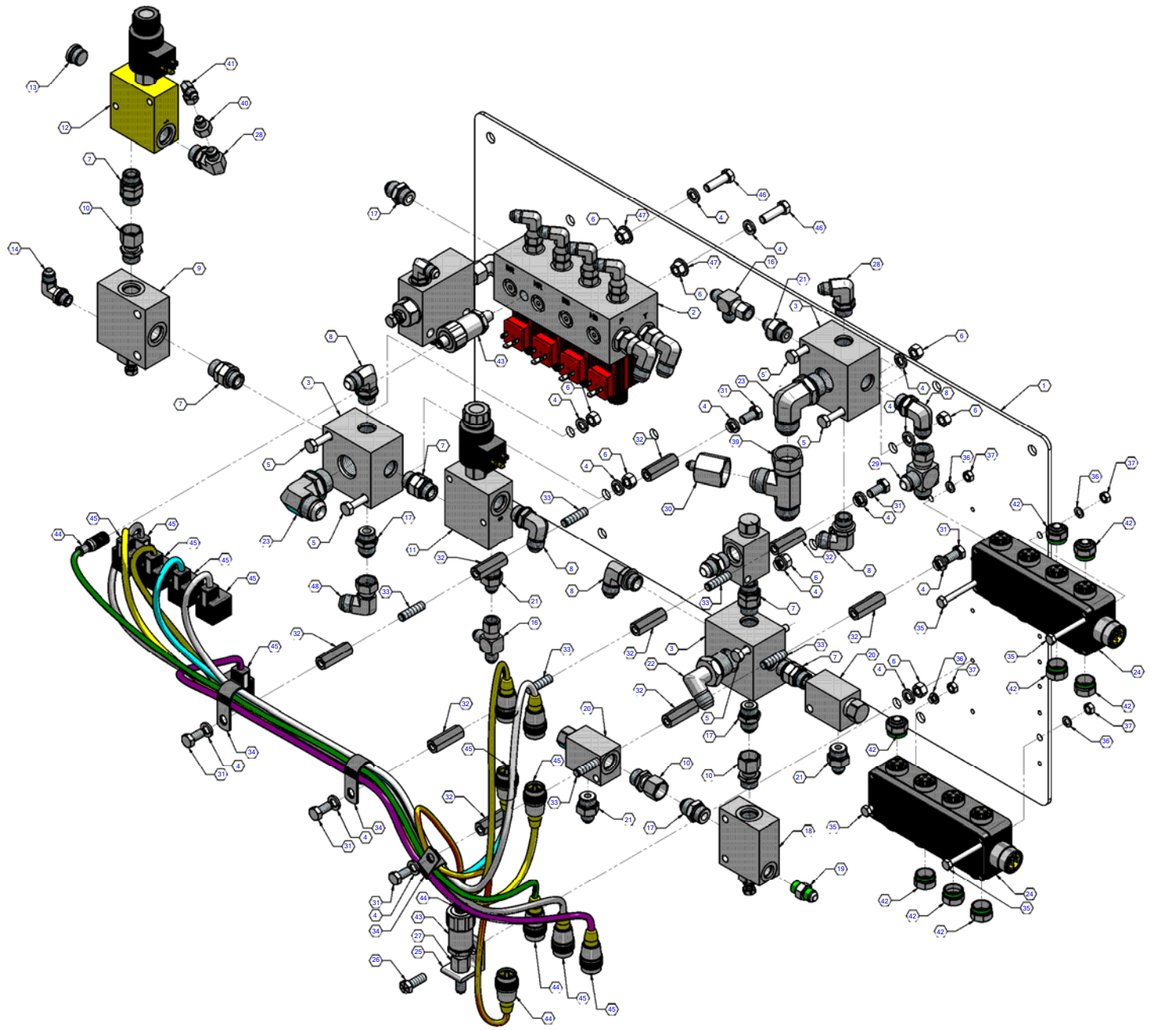
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280201		HYDRAULIC RESERVOIR HARDWARE GROUP		
1	R4257646	1	· RESERVOIR STRUCTURE, HYDRAULIC		
	R4248986	2	· · O-RING, 18-7/16" I.D. - BUNA N		
	R4248985	2	· · COVER PLATE, 20-5/8" - ALUMINUM		
	R0753123	24	· · LOCKWASHER, 3/8"		
	R0808476	24	· · BOLT, 3/8"-16 X 1-1/4"		
	R4013957	1	· · PLUG, PIPE - 3/4", SQ.		
2	R4014480	1	· TUBE JOINT, 3" I.D. X 5" - STRAIGHT		
3	R4012819	1	· NIPPLE, PIPE - 3/4"		
4	R4035388	1	· VALVE, DRAIN - 3/4"		
5	R4013957	1	· PLUG, PIPE - 3/4", SQ. CSK. MAG.		
6	R4121119	2	· GASKET, FILLER NECK		
7	R4189195	1	· PIPE STRUCTURE, HYDRAULIC TANK STAND		
8	R0808221	10	· FLATWASHER, 3/8"		
9	R0753123	14	· LOCKWASHER, 3/8"		
10	R0810971	10	· BOLT, 3/8"-16 X 1"		
11	R4102220	1	· FILLER NECK		
12	R0810970	6	· BOLT, 3/8"-16 X 3/4"		
13	R4256396	1	· CAP ASSEMBLY, WITH PRESSURE RELIEF		
14	R4123586	2	· SEAL, QUAD RING - 4-3/8" I.D. - BUNA N		
15	R4257627	1	· MANIFOLD TUBE STRUCTURE, REAR		
16	R0021541	8	· LOCKWASHER, 5/8"		
17	R4261508	8	· CAPSCREW, 16 MM X 2"		
18	R4179645	1	· ELBOW, #8 MO X 90 deg. X #8 MJ		
19	R4071255	2	· O-RING, 2-1/4" I.D. - POLYURETHANE		
20	R4186402	4	· FLANGE HALF, 2"		
21	R4210349	16	· FLATWASHER, 1/2" - HARDENED		
22	R0824790	20	· BOLT, 1/2"-13 X 1-3/4"		
23	R4116301	2	· O-RING, 2-3/4" I.D. - POLYURETHANE		
24	R4222106	4	· FLANGE HALF, 2-1/2"		
25	R4257648	2	· MOUNT ANGLE, MANIFOLD		
26	R0801181	2	· LOCKWASHER, 1/2"		
27	R4236946	2	· SEAL, 9-1/8" I.D. - BUNA N		
28	R4237920	2	· FILTER ASSEMBLY		
	R4237922	2	· · FILTER ASSEMBLY, RETURN		
	R4237908	2	· · · ELEMENT, FILTER - RETURN		
	R4248974	2	· · · LID ASSEMBLY, INLET		
	R4248505	2	· · · O-RING, CAP - FILTER ASSEMBLY - BUNA N		
	R4243882	2	· · · LID, OUTLET - BOTTOM OF FILTER ASSEMBLY		
	R4243883	2	· · · BASKET, CONTAMINATION		
	R4243976	2	· · · SHIELD, FILTER ELEMENT		
	R4123586	2	· · SEAL, QUAD RING - 4-3/8" I.D. - BUNA N		
	R4237910	2	· · DIFFUSER BASKET STRUCTURE		
	R4237916	2	· · FILTER EXTENSION STRUCTURE		
29	R0271979	3	· FLATWASHER, 5/8"		
30	R0021629	8	· BOLT, 5/8"-11 X 1-3/4"		
31	R4040567	3	· PLUG, #16 MO		
32	R0021549	4	· FLATWASHER, 1/2"		
33	R4223104	4	· FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		
34	R0810991	4	· FLATWASHER, 1/2" X 1" X 1/8"		
35	R4257629	1	· MANIFOLD TUBE STRUCTURE, FRONT		
36	R4182773	1	· GAUGE, LIQUID LEVEL		
37	R4122889	1	· LATCH, FILLER NECK		
38	R4102094	1	· FILLER CAP AND GASKET ASSEMBLY		
39	R0808489	2	· NUT, 1/2"-13		
40	R4013789	1	· BUSHING, 3/8" FP X 1/2" MP		
41	R4223338	4	· PLUG, PIPE - 1/2", HEX HD.		
42	R4244777	1	· ADAPTER, #4 BSPP X 1/2" MP		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
43	R4002425	4	· ADAPTER STRUCTURE, 1-1/4" MP X #20 MJ		
44	R4223340	3	· PLUG, PIPE - 1", HEX HD.		
45	R4223353	2	· PLUG, PIPE - 2"		
46	R4011756	1	· ADAPTER, 3/8" MP X #6 MJ		
47	R4002424	3	· ADAPTER, 1" MP X #16 MJ		
48	R4223339	3	· PLUG, PIPE - 3/4", HEX HD.		
49	R0978632	2	· ADAPTER, 1/8" MP X #4 MJ		
50	R4076637	1	· ELBOW, 3/8" FP X 90 deg. X 3/8" MP - TAPPED, 1/8" FP		
51	R4013780	2	· PLUG, PIPE - 3/8", HEX HD.		
52	R4223348	2	· PLUG, PIPE - 1-1/4", HEX HD.		
53	R0801180	2	· BOLT, 1/2"-13 X 1"		
54	R0812921	1	· NUT, 3/8"-16		
55	R0985113	1	· LOCKNUT, 3/8"-16 - NYLON		
56	R4040557	2	· ADAPTER, 1/2" MP X #6 MJ		
57	R4018666	3	· ADAPTER, 1/2" MP X #8 MJ		
58	R4243936	2	· ADAPTER, #12 MO X #4 MJ		
59	R4002420	2	· ADAPTER, 3/8" MP X #8 MJ		
60	R4244985	1	· ADAPTER, 3/8" MP X 1/2" MP		
61	R4165712	1	· VALVE, BALL - 3-WAY, 1/2"		
62	R4002427	1	· ELBOW, 1/8" MP X 45 deg. X #4 MJ		
63	R4189196	1	· VALVE, AIR - 2-WAY N.C.		
64	R0979138	1	· ELBOW, 1/8" MP X 90 deg. X #4 MJ - SWIVEL		
65	R4002434	1	· ELBOW, 1" MP X 45 deg. X #16 MJ		
66	R4014475	4	· CLAMP, CABLE - INSULATED, 2"		
67	R4002483	1	· ELBOW, #16 FJ X 90 deg. X #16 MJ - SWIVEL		
68	R4243928	1	· ADAPTER, #8 BSPP X #8 MJ		
69	R4002479	1	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
70	R4068357	1	· O-RING, 1-1/2" I.D. - POLYURETHANE		
71	R4008733	1	· PLUG, SF - 1-1/4"		
72	R4210348	4	· FLATWASHER, 7/16" - HARDENED		
73	R4213614	4	· BOLT, 7/16"-14 X 1-3/4"		
74	R4256107	1	· TRANSDUCER, TEMPERATURE - -13 deg. TO 212 deg. F		
75	R4117627	1	· SENDING UNIT, LOW LEVEL		
76	R4015753	4	· ADAPTER, 1/2" MP X #12 MJ		
			DRAWING, HYDRAULIC RESERVOIR HARDWARE GROUP (R428020102)		

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FRONT FRAME HYDRAULIC PANEL HARDWARE GROUP



ITEM	PART NO.	QTY	DESCRIPTION
48	4002479	1	HYD FITTING, 90-DEG 8 MJ 8 FJ
47	0808221	2	WASHER FLAT .375 .81 .08
46	0808476	2	BOLT HX .375 1.250 NC G8
45	4265233	6	CABLE 3 PIN - DIN 1M
44	4265234	2	CABLE 3 PIN - M12X1 4 PIN 1M
43	4255490	2	TRANSMITTER PRESS 0-1500 PSIG
42	4265200	8	CAP 7/8 MALE TURCK
41	4116444	1	FTG HYD 90 .4 MJ .4 FJ
40	5001457	1	FTG HYD 0 .4 MJ .6 FJ
39	4125046	1	FTG HYD TE 12 MJ 12 FJ 12 MJ
37	4012935	4	NUT HEX .250 NC G8 PL
36	0213564	4	WASHER LOCK SPR .25 .49 .06
35	4009615	4	BOLT HX .250 2.250 NC G8
34	0968143	3	CLAMP CABLE INSL 1.00 .406
33	4069503	6	ROD THREADED 3/8-16- NC X 1.375
32	4255073	9	NUT - 3/8-16 UNC 2B LONG ROD CPLG
31	0810970	6	BOLT HX .375 .750 NC G8 FT
30	5001454	1	FTG HYD 0 .4 MJ 12 FJ
29	4078968	1	FTG HYD TE 8 MJ 8 FJ 8 MJ
28	4017400	2	FTG HYD 90 6 MJ 8 MO JUMP
27	4261258	1	FTG HYD 0 .4 FP .4 MJ BH
26	0810971	1	BOLT HX .375 1.000 NC G8 FT
25	4261259	1	ANGLE - MOUNT - TRANSDUCER
24	4265235	2	BREAKOUT BOX 12 PIN - 8 x 3 PIN
23	4002473	2	HYD FITTING, 90 12 MJ 12 MO
22	4040554	1	FTG HYD 90 8 MJ 12 MO JUMP
21	4020771	4	ADAPTER FTG HYD 0 8MO 6MJ JUMP
20	4244681	3	VALVE-FLOW CONT ASSY 2.5 GPM
19	4002454	1	FTG HYD, 0 6 MJ 6 MO
18	4273458	1	SEQUENCE VALVE PILOT OPERATED
17	4002455	5	FTG HYD 0 8 MJ 8 MO
16	4131486	2	FTG HYD TE 8 MJ 8 FJ 8 MJ
14	4002470	1	HYD FITTING 90 6 MJ 6 MO
13	4167345	1	PLUG 8 MO HOLLOW HEX
12	4244631	1	VALVE ASY SOL 2 WAY NO 24VDC
11	4258320	1	VALVE ASS'Y - SOL.3 WAY - 24VDC
10	4116765	3	FTG HYD 0 8 MO 8 FJ
9	4244988	1	RELIEF VALVE ASSY - VENTED
8	4002471	5	FTG HYD 90 8 MJ 8 MO
7	4030078	5	FTG HYD 0 8 MO 8 MO
6	0812921	9	NUT HX 0.375-16UNC-2B G8 PL
5	4009645	6	BOLT HX .375 3.00 NC G8
4	0753123	15	WASHER LOCK SPR .375 .68 .09
3	4170566	3	MANIFOLD, 5 PORT, #8, #12
2	4273459	1	ASSY MANIFOLD - HYD PANEL
1	4261322	1	PLATE - HYDRAULIC PANEL

REF 427-0868 GP HOSE HYD PANEL FF G2 FOR **HOSE INSTALLATION ON PANEL**

REF 428-4413 GP HSEM HYD PANEL FF G2 FOR **MDG HOSE INSTALLATION ON PANEL**

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INTERPRET DIM & TOL PER LETOURNEAU STD: 1950.05

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, .XX DECIMAL ±.03, .XXX DECIMAL ±.015
- MACHINED CORNERS .156 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 427-0851

DWN	jmarlin0	12-21-11
CHK	AY	12-21-11
ENGR	AY	12-21-11
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HDW HYD PANEL FF G2

SIZE E | DO NOT SCALE | DWG NO. 4274767 | REV 05

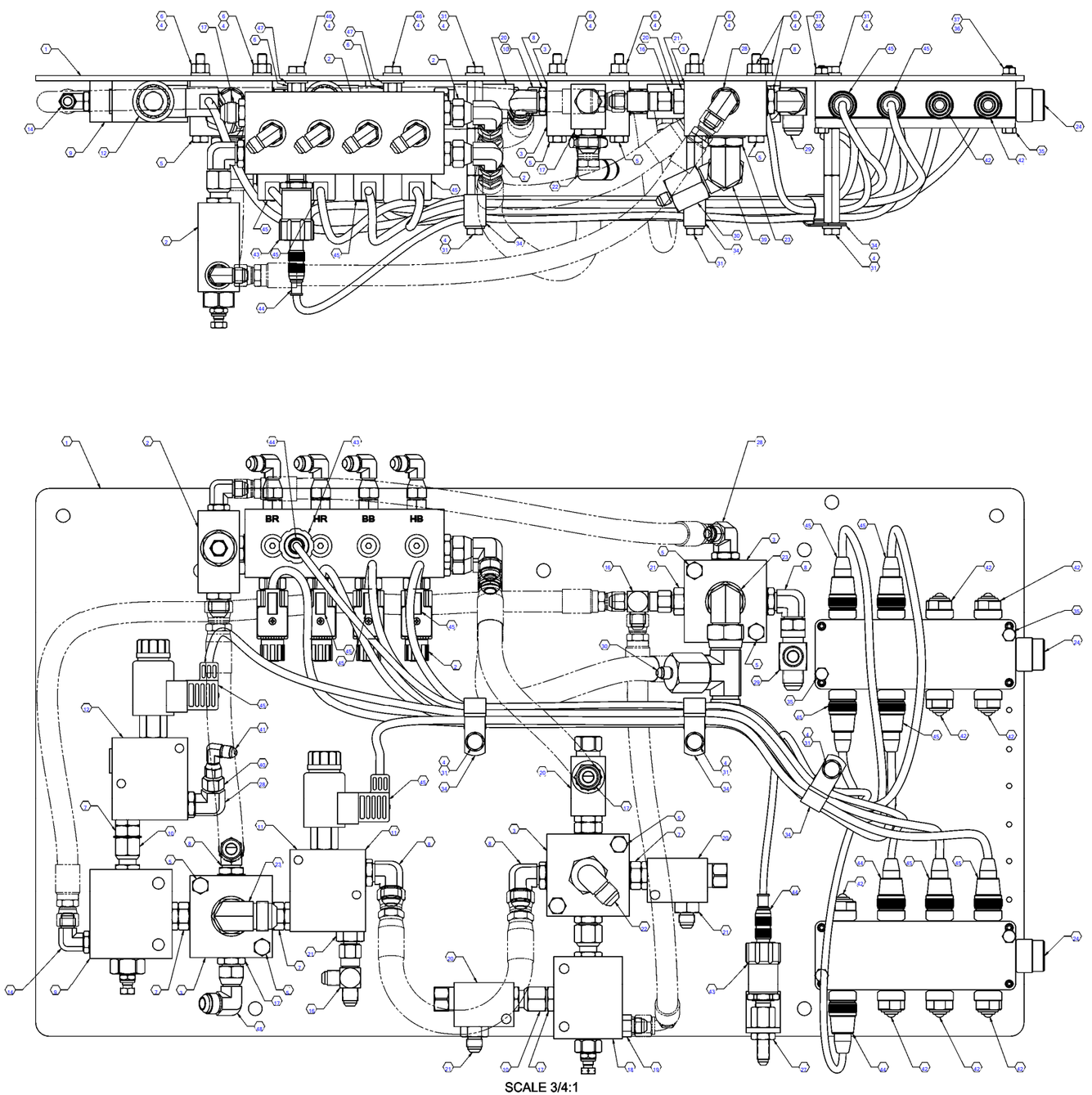
SCALE 1/2 | WEIGHT 105.5 lbm | SHEET 1 OF 2

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FRONT FRAME HYDRAULIC PANEL HARDWARE GROUP

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SCALE 3/4:1

GP HDW HYD PANEL FF G2 | E | DO NOT SCALE | 4274767 | 05 | jmartin0 | 12-21-11 | 1/2 | 105.5 lbm | 2 OF 2

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FRONT FRAME HYDRAULIC PANEL HARDWARE GROUP

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FRONT FRAME HYDRAULIC PANEL HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274767		FRONT FRAME HYDRAULIC PANEL HARDWARE GROUP		6/21/18
1	R4261322	1	· MOUNT PLATE, HYDRAULIC PANEL		
2	R4273459	1	· MANIFOLD ASSEMBLY, PANEL		
	R4273402	1	· · MANIFOLD, PANEL		
	R4238000	4	· · VALVE, PROPORTIONAL PRESSURE REDUCING		
	R4174782	4	· · COIL, 24 VDC		
	R4243929	8	· · PLUG, PIPE - #4, HEX CSK.		
	R4002455	4	· · ADAPTER, #8 MO X #8 MJ		
	R4002479	2	· · ELBOW, #8 FJ X 90 deg. X #8 MJ		
	R4002470	2	· · ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
	R4116765	1	· · ADAPTER, #8 MO X #8 FJ		
	R4244988	1	· · VALVE ASSEMBLY, RELIEF - VENTED		
	R4002471	1	· · ELBOW, #8 MO X 90 deg. X #8 MJ - ADJ.		
	R4002454	3	· · ADAPTER, #6 MO X #6 MJ		
	R4002478	3	· · ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
3	R4170566	3	· MANIFOLD STRUCTURE - 5 PORT		
4	R0753123	15	· LOCKWASHER, 3/8"		
5	R4009645	6	· BOLT, 3/8"-16 X 3"		
6	R0812921	9	· NUT, 3/8"-16		6/21/18
7	R4030078	5	· ADAPTER, #8 MO X #8 MO		
8	R4002471	5	· ELBOW, #8 MO X 90 deg. X #8 MJ - ADJ.		
9	R4244988	1	· VALVE ASSEMBLY, RELIEF - VENTED		
	R4256409	1	· · VALVE, CARTRIDGE SEQUENCE		
	R4235025	1	· · SEAL KIT		
10	R4116765	3	· ADAPTER, #8 MO X #8 FJ		
11	R4256320	1	· VALVE ASSEMBLY, SOLENOID - 3-WAY		
	R4138101	1	· · SEAL KIT		
	R4244836	1	· · COIL, 24VDC		
12	R4244831	1	· VALVE ASSEMBLY, SOLENOID - 2-WAY N.O.		
13	R4167345	1	· PLUG, #8 MO		
14	R4002470	1	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
15	N.P.N.		· NOT USED		6/21/18
16	R4131486	2	· TEE, #6 MJ X #6 FJ X #6 MJ		
17	R4002455	5	· ADAPTER, #8 MO X #8 MJ		6/21/18
18	R4273458	1	· VALVE, SEQUENCE - PILOT OPERATED		
19	R4002454	1	· ADAPTER, #6 MO X #6 MJ		
20	R4244881	3	· VALVE, FLOW CONTROL - 2.5 GPM		
21	R4020771	4	· ADAPTER, #8 MO X #6 MJ		6/21/18
22	R4040554	1	· ELBOW, #12 MO X 90 deg. X #8 MJ		
23	R4002473	2	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		6/21/18
24	R4265235	2	· BREAKOUT BOX, 12 PIN - 8 X 3 PIN		
25	R4261259	1	· MOUNT ANGLE, TRANSDUCER		
26	R0810971	1	· BOLT, 3/8"-16 X 1"		
27	R4261258	1	· ADAPTER, #4 FP X #4 MJ - BULKHEAD		
28	R4017400	2	· ELBOW, #8 MO X 90 deg. X #6 MJ - ADJ.		
29	R4078968	1	· TEE, #8 MJ X #8 FJ X #8 MJ		
30	R5001454	1	· ADAPTER, #12 FJ X #4 MJ		
31	R0810970	6	· BOLT, 3/8"-16 X 3/4"		
32	R4255973	9	· NUT, 3/8"		
33	R4069503	6	· ROD, THREADED - 3/8" X 1-3/8"		
34	R0986143	3	· CLAMP, CABLE - INSULATED, 1"		
35	R4009615	4	· BOLT, 1/4"-20 X 2-1/4"		
36	R0213584	4	· LOCKWASHER, 1/4"		
37	R4012935	4	· NUT, 1/4"-20		
38	N.P.N.		· NOT USED		6/21/18
39	R4126046	1	· TEE, #12 MJ X #12 FJ X #12 MJ		6/21/18
40	R5001457	1	· ADAPTER, #6 FJ X #4 MJ		
41	R4116444	1	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		

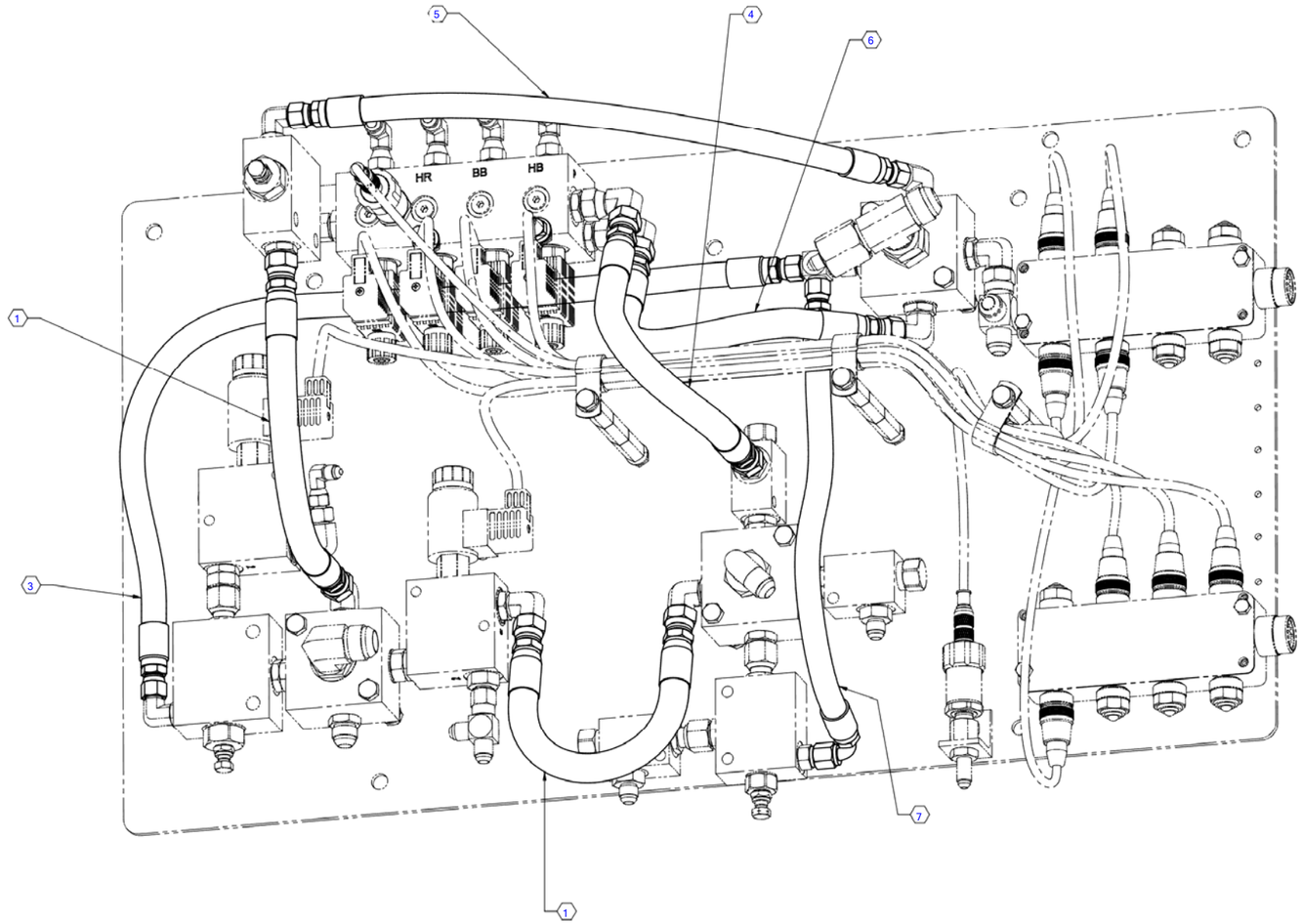
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
42	R4265200	8	· CAP, TURCK - 7/8" MALE		
43	R4255490	2	· TRANSMITTER, PRESSURE - 0-1500 PSI		
44	R4265234	2	· CABLE EXTENSION, 3 PIN - M12 X 1 4 PIN 1M		
45	R4265233	6	· CABLE EXTENSION, 3 PIN 1M		
46	R0808476	2	· BOLT, 3/8"-16 X 1-1/4"		
47	R0808221	2	· FLATWASHER, 3/8"		
48	R4002479	1	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		6/21/18
	R4270966	1	FRONT FRAME HYDRAULIC PANEL HOSE GROUP		
		REF	DRAWING, FRONT FRAME HYDRAULIC PANEL HARDWARE GROUP (R427476705)		6/21/18

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FRONT FRAME HYDRAULIC PANEL HOSE GROUP, MDG

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	1321766	1-27-16	RAH	JBD	JBD



ITEM	PART NO.	QTY	DESCRIPTION
6	4284419	1	HSEM 4000 6 18.0 0J 90J
5	4284418	1	HSEM 4250 8 14.0 0J 0J
4	4284417	1	HSEM 4000 6 20.0 0J 0J
3	4284416	1	HSEM 4250 8 15.0 0J 0J
2	4284415	1	HSEM 4000 6 34.0 0J 0J
1	4284414	2	HSEM 4250 8 12.0 0J 0J

REF 427-4767 GP HDW HYD PANEL FF G2 **FOR HARDWARE INSTALLATION ON PANEL**

OFFSET: 4270966

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO

		DATE
DWN	jdillinger	01-05-16
CHK	KMD	1-27-16
ENGR	JBD	1-27-16
PROD ENGR		
PROJ APPROVAL	JBD	1-27-16
MATL		

JOYGLOBAL

GP HSEM HYD PANEL FF G2

SIZE D | DWG NO. 4284413 | REV 00

SCALE 1/2 | EST WT 12.9 lbm | SHEET 1 OF 1

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FRONT FRAME HYDRAULIC PANEL HOSE GROUP, MDG

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4284413		FRONT FRAME HYDRAULIC PANEL HOSE GROUP, MDG		
1	R4284414	2	· HOSE ASSEMBLY, #8 X 12", MDG		
2	R4284415	1	· HOSE ASSEMBLY, #6 X 34", MDG		
3	R4284416	1	· HOSE ASSEMBLY, #8 X 15", MDG		
4	R4284417	1	· HOSE ASSEMBLY, #6 X 20", MDG		
5	R4284418	1	· HOSE ASSEMBLY, #8 X 14", MDG		
6	R4284419	1	· HOSE ASSEMBLY, #6 X 18", MDG		
		REF	DRAWING, FRONT FRAME HYDRAULIC PANEL HOSE GROUP, MDG (R428441300)		

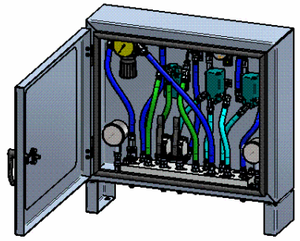
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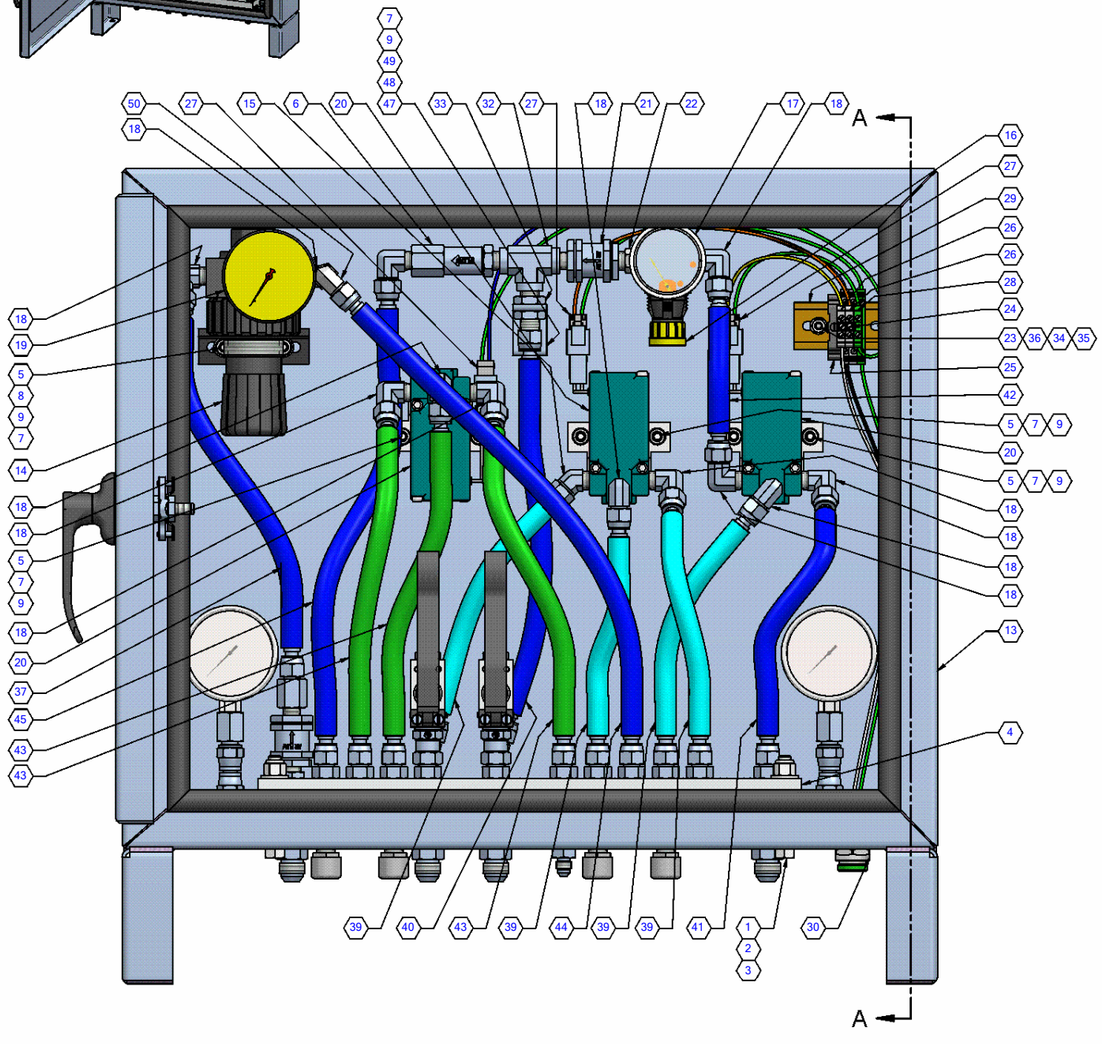
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

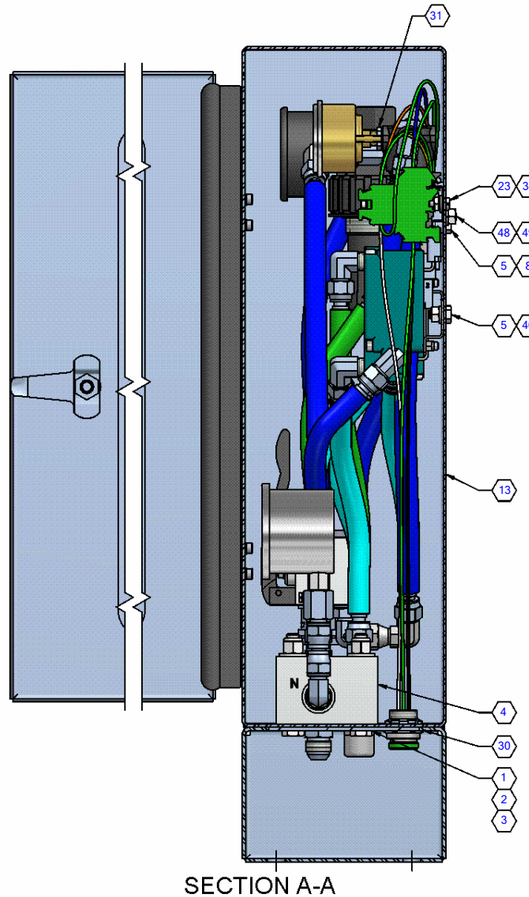
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AIR BOX ASSEMBLY







SECTION A-A

ITEM	PART NO.	QTY	DESCRIPTION
50	4002478	1	FTG HYD 90 .6 MJ .6 FJ SWVL
49	0753118	1	WASHER FLAT .313 .69 .08
48	0812278	1	BOLT HEX .250 .63 NC G8 FT
47	4273358	1	ANGLE BH FITTING MOUNT
46⊠	4120401	10 FT	CABLE #16 AWG EXANE DLO 600 VAC
45	4271138	1	HOSE .300 .6 15.0 0J 0J
44	4271135	1	HOSE .300 .6 17.5 0J 0J
43	4271142	3	HOSE .300 .6 11.5 0J 0J
42	4271136	1	HOSE .300 .6 5.5 0J 0J
41	4271140	1	HOSE .300 .6 9.5 0J 0J
40	4271137	1	HOSE .300 .6 13.0 0J 0J
39	4271141	4	HOSE .300 .6 8.8 0J 0J
37	4271139	1	HOSE .300 .6 12.0 0J 0J
36	4010907	2	WASHER LOCK SPR .190 .334 .047
35	0230017	2	NUT HX #10-32 NF
34	0810880	2	WASHER FLAT .219 .50 .07
33	4267558	1	FTG HYD 0 .4 MP .6 MJ BH
32	4031446	1	HYP/FEMALE TEE 1/4 PIPE
31	0513704	1	PIPE BUSHING-REDUCING 1/4 X 1/8
30	4265237	1	RECEPTACLE 3 PIN MALE 3M
29	4228909	1	RAIL MOUNT 3.0 IN
28	4264183	1	TERM BLK GND PHOENIX 27 74 21 1
27	4261175	3	DEUTSCH DT06-2S KIT
26	4247473	2	TERMINAL BLOCK GRAY PHOENIX 27 74 01 7
25	4265756	1	BRACKET END PHOENIX 08 00 88 6
24	4266266	2	BRIDGE FIXED PHOENIX FB10-6
23	4010283	2	MSCR PH #10 .500 NF
22	4030298	1	PIPE NIPPLE HYD 1/4 MP 1/4 MP HX
21	0828313	1	CHECK VALVE
20	4261177	3	AIR SOLENOID KIT
19	4244824	1	GAUGE AIR 160 PSI
18	4002438	12	FTG HYD 90 .6 MJ .4 MP
17	4067043	1	PRESSURE GAUGE 0-15 PSI
16	4264840	1	REGULATOR - AIR
15	4002429	1	FTG HYD 45 .6 MJ .4 MP
14	4103792	1	REGULATOR AIR PRESSURE
13	4271086	1	ASSY AIR BOX ENCLOSURE
9	0213584	9	WASHER LOCK SPR .25 .49 .06
8	4105721	2	WASHER FLAT .250 .56 .07 SS
7	4012935	9	NUT HEX .250 NC G8 PL
6	4256397	1	RELIEF VALVE 12 PSI
5	0417597	8	BOLT HEX .250 .500 NC G8 FT
4	4271097	1	ASSY MANIFOLD - AIR BOX
3	0985113	4	NUT LOCK NYL INS .375 NC
2	0808221	4	WASHER FLAT .375 .81 .08
1	4009644	4	BOLT HX .375 2.750 NC G8

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UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° | FRAC TIONS ±1/16 | .XX DECIMAL ±.03 | .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 426-7497

	DATE
DWN	
CHK	
ENGR	
PROD ENGR	
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

ASSY AIR BOX

SIZE D | DO NOT SCALE | DWG NO. 4271109 | REV 02

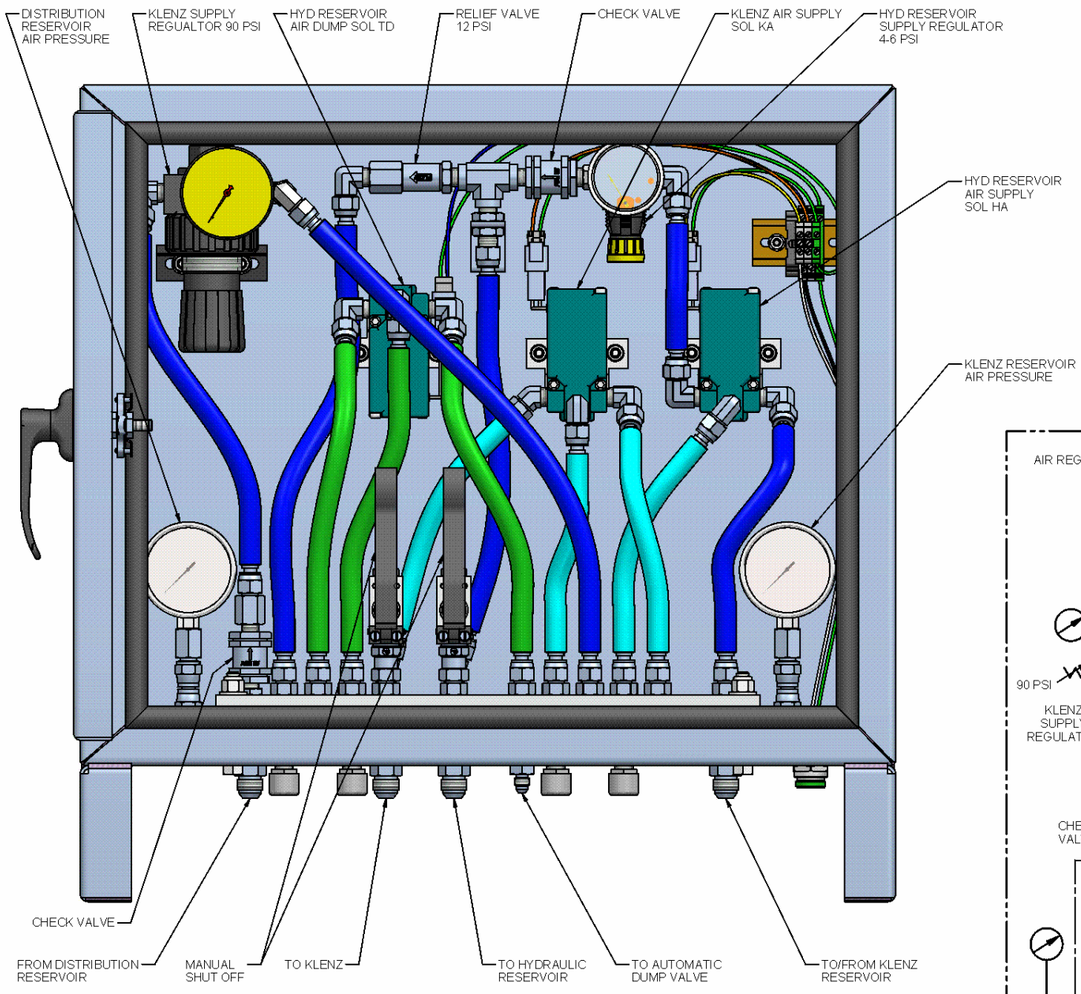
SCALE 1/2 | EST WT 83.0 lbm | SHEET 1 OF 2

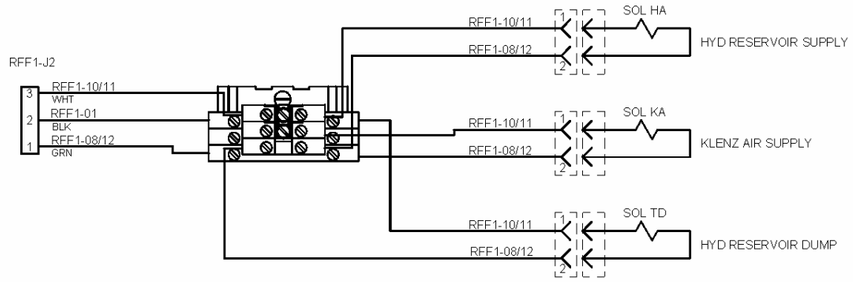
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AIR BOX ASSEMBLY

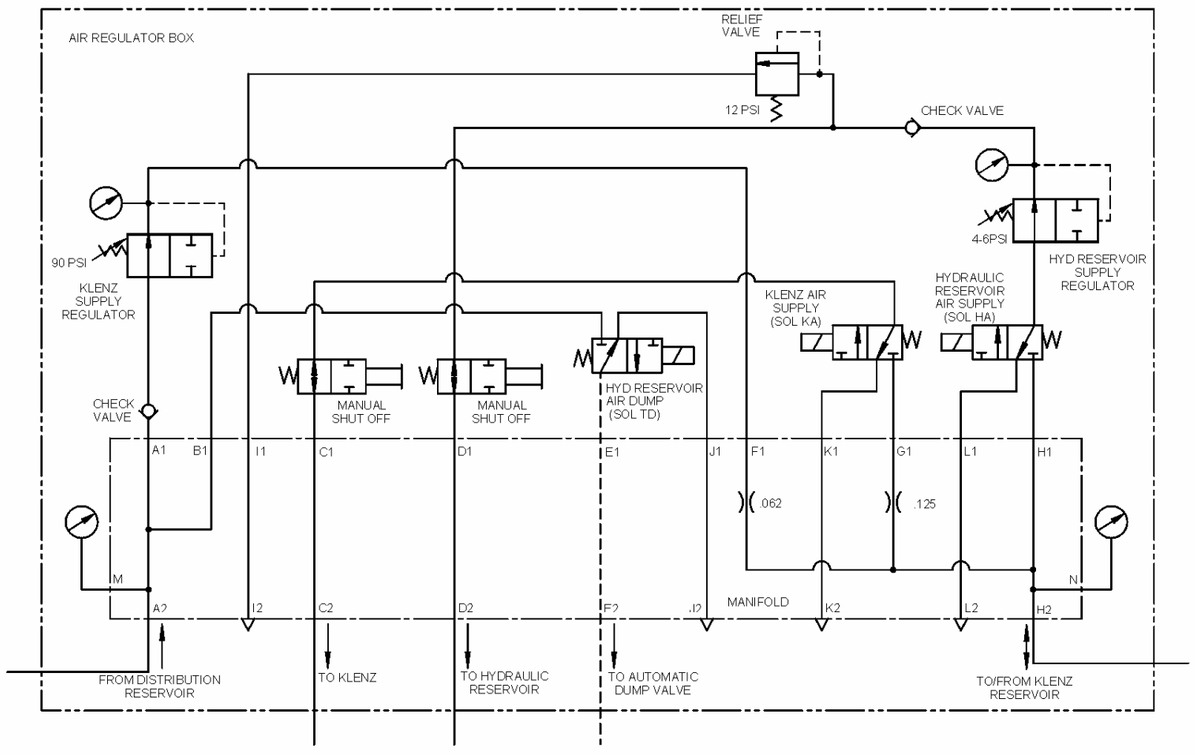
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AIR BOX ASSEMBLY





WIRING DIAGRAM



HYDRAULIC SCHEMATIC

ASSY AIR BOX	SIZE D	DO NOT SCALE	DWG NO. 4271109	REV 02	
DRAWN	SCALE 1/2	EST WT 83.0 lbm	SHEET 2 OF 2		
ISSUED					

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AIR BOX ASSEMBLY

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4271109			AIR BOX ASSEMBLY		11/12/13
1	R4009644	4		· BOLT, 3/8"-16 X 2-3/4"		
2	R0808221	4		· FLATWASHER, 3/8"		
3	R0985113	4		· LOCKNUT, 3/8"-16 - NYLON		
4	R4271097	1		· MANIFOLD ASSEMBLY, AIR BOX		
	R4268037	1		· · MANIFOLD, AIR BOX		7/12/11
	R4136495	1		· · ORIFICE, .062" X 1/16" MP		7/12/11
	R4136497	1		· · ORIFICE, .125" X 1/16" MP		7/12/11
	R0828313	1		· · VALVE, CHECK		7/12/11
	R4271082	2		· · GAUGE, PRESSURE - 0-160 PSI		7/12/11
	R4271087	2		· · VALVE, SHUT-OFF		7/12/11
	R4271089	2		· · LEVER KIT		7/12/11
	R4162499	3		· · VENT, BREATHER - 1/4"-18		7/12/11
5	R0417597	8		· BOLT, 1/4"-20 X 1/2"		
6	R4256397	1		· VALVE, RELIEF - 10-12 PSI		
7	R4012935	9		· NUT, 1/4"-20		
8	R4105721	2		· FLATWASHER, 1/4" - S.S.		
9	R0213584	9		· LOCKWASHER, 1/4"		
10	N.P.N.			· NOT USED		
11	N.P.N.			· NOT USED		
12	N.P.N.			· NOT USED		
13	R4271086	1		· BOX ASSEMBLY, AIR BOX		
14	R4103792	1		· REGULATOR, AIR PRESSURE		
15	R4002429	1		· ELBOW, 1/4" MP X 45 deg. X #6 MJ		
16	R4264840	1		· REGULATOR, AIR - 0-160 PSI		
17	R4067043	1		· GAUGE, AIR PRESSURE - 0-15 PSI		
18	R4002438	12		· ELBOW, 1/4" MP X 90 deg. X #6 MJ		
19	R4244824	1		· GAUGE, AIR PRESSURE - 0-160 PSI		
20	R4261177	3		· SOLENOID KIT, AIR - 24V		11/12/13
	R4039803	3		· · SOLENOID, AIR - 24V		11/12/13
	R4255415	3		· · RECEPTACLE, DT04-2P		11/12/13
	R4255416	3		· · WEDGE, W2P		11/12/13
	R4185763	6		· · PIN, CONTACT - 16		11/12/13
21	R0828313	1		· VALVE, CHECK		
22	R4030298	1		· NIPPLE, PIPE - 1/4", HEX		
23	R4010283	2		· SCREW, #10-32 X 1/2" - P.H.		
24	R4266266	2		· BRIDGE, FIXED		
25	R4265756	1		· BRACKET END		
26	R4247473	2		· TERMINAL BLOCK, GRAY		
27	R4261175	3		· CONNECTOR KIT, DT06-2S KIT		
28	R4264183	1		· TERMINAL BLOCK, GROUND		
29	R4228909	1		· RAIL MOUNT, 3"		
30	R4265237	1		· RECEPTACLE, 3 PIN - MALE		
31	R0513704	1		· BUSHING, 1/8" FP X 1/4" MP		
32	R4031446	1		· TEE, 1/4" FP		
33	R4267558	1		· ADAPTER, 1/4" MP X #6 MJ - BULKHEAD		
34	R0810880	2		· FLATWASHER, #10		
35	R0230017	2		· NUT, #10-32		
36	R4010907	2		· LOCKWASHER, #10		
37	R4271139	1		· HOSE ASSEMBLY, #6 X 12"		
39	R4271141	4		· HOSE ASSEMBLY, #6 X 8-13/16"		
40	R4271137	1		· HOSE ASSEMBLY, #6 X 13"		
41	R4271140	1		· HOSE ASSEMBLY, #6 X 9-1/2"		
42	R4271136	1		· HOSE ASSEMBLY, #6 X 5-1/2"		
43	R4271142	3		· HOSE ASSEMBLY, #6 X 11-1/2"		
44	R4271135	1		· HOSE ASSEMBLY, #6 X 17-1/2"		
45	R4271138	1		· HOSE ASSEMBLY, #6 X 15"		
46	R4120401	10	FT	· CABLE, #16 AWG 600V		

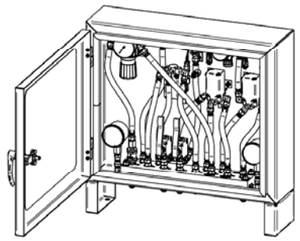
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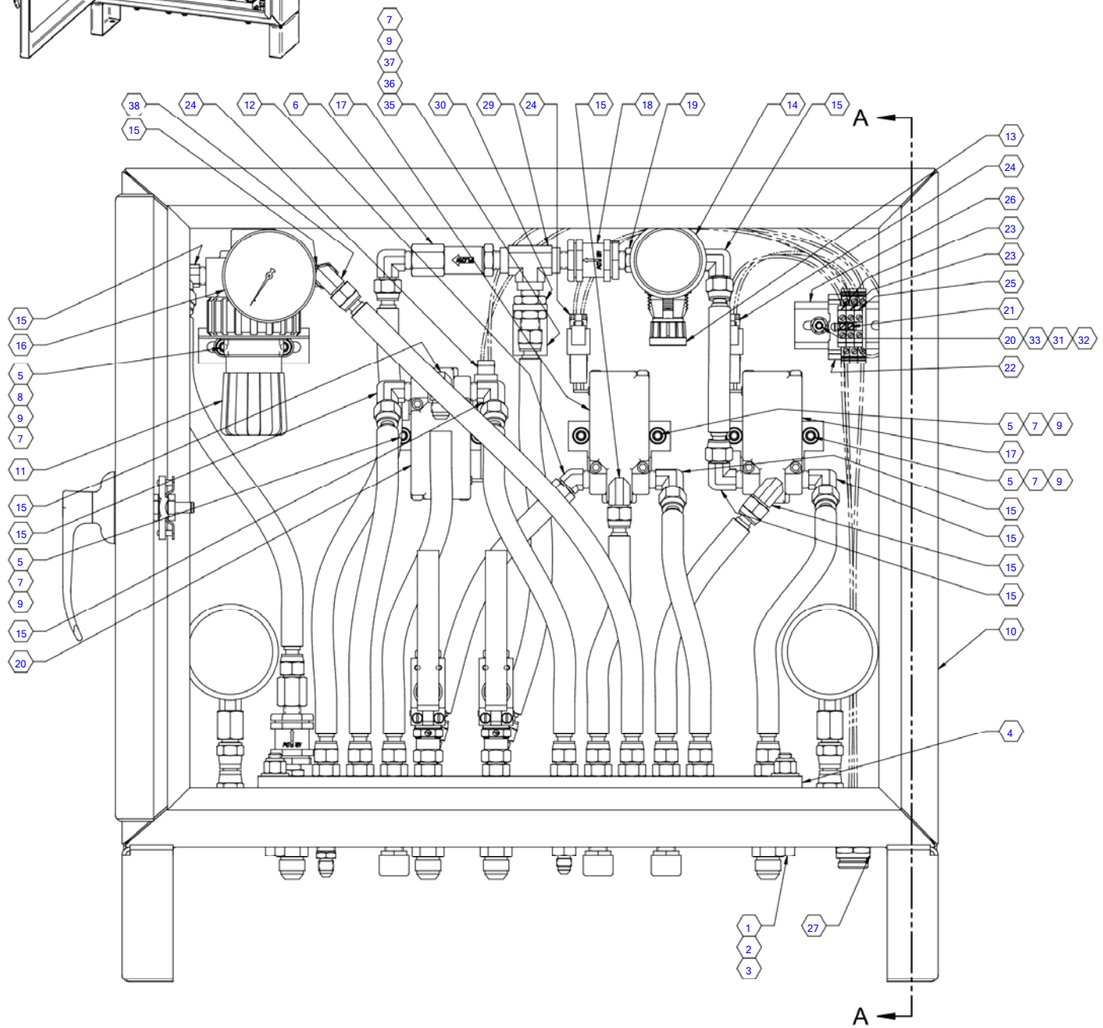
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
47	R4273358	1		· MOUNT ANGLE		
48	R0812278	1		· BOLT, 1/4"-20 X 5/8"		
49	R0753118	1		· FLATWASHER, 5/16"		
50	R4002478	1		· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
		REF		DRAWING, AIR BOX ASSEMBLY (R427110902)		

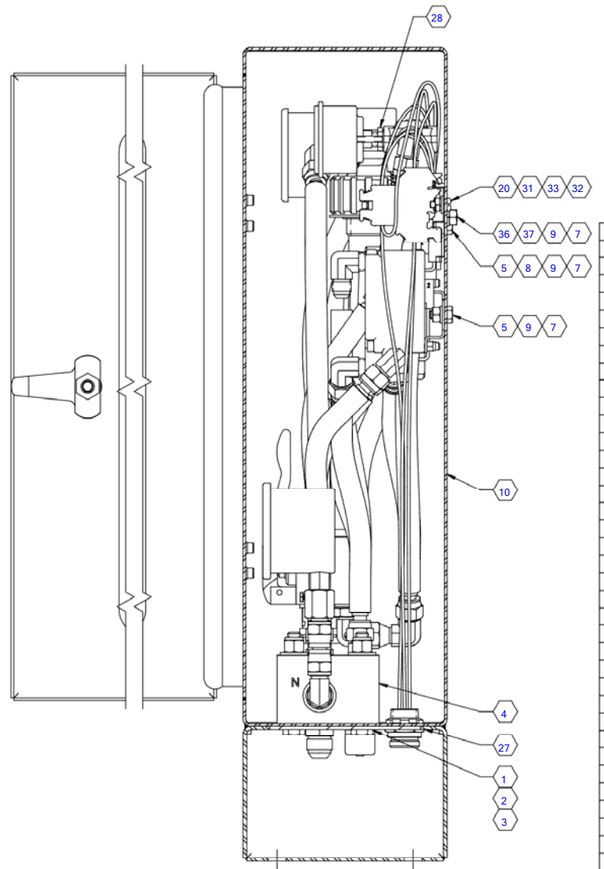
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AIR BOX HARDWARE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASE	NL11-2064	12-19	TEW	AY	AY
	01	ADD MDG HOSE REFERENCE	1321955	1-29-16	TEW	JBD	JBD







SECTION A-A

REF 427-0967 GP HOSE AIR BOX **FOR HOSE INSTALLATION.**

REF 428-7384 GP HSEM AIR BOX **FOR MDG HOSE INSTALLATION.**

ITEM	PART NO.	QTY	DESCRIPTION
38	4002478	1	FTG HYD 90 6 MJ 6 FJ SWVL
37	0753118	1	WASHER FLAT .313 .69 .08
36	0812278	1	BOLT HEX .250 .63 NC G8 FT
35	4273358	1	ANGLE BH FITTING MOUNT
34	4120401	10 FT	CABLE #16 AWG EXANE DLO 600 VAC
33	4010907	2	WASHER LOCK SPR .190 .334 .047
32	0230017	2	NUT HX #10-32 NF
31	0810880	2	WASHER FLAT .219 .50 .07
30	4267558	1	FTG HYD 0 4 MP 6 MJ BH
29	4031446	1	HYP/FEMALE TEE 1/4 PIPE
28	0513704	1	PIPE BUSHING-REDUCING 1/4 X 1/8
27	4265237	1	RECEPTACLE 3 PIN MALE 3M
26	4228909	1	RAIL MOUNT 3.0 IN
25	4264183	1	TERM BLK GND PHOENIX 27 74 21 1
24	4261175	3	DEUTSCH DT06-2S KIT
23	4247473	2	TERMINAL BLOCK GRAY PHOENIX 27 74 01 7
22	4265756	1	BRACKET END PHOENIX 08 00 88 6
21	4266266	2	BRIDGE FIXED PHOENIX FB10-6
20	4010283	2	MSCR PH #10 .500 NF
19	4030298	1	PIPE NIPPLE HYD 1/4 MP 1/4 MP HX
18	0828313	1	CHECK VALVE
17	4261177	3	AIR SOLENOID KIT
16	4244824	1	GAUGE AIR 160 PSI
15	4002438	12	FTG HYD 90 6 MJ 4 MP
14	4067043	1	PRESSURE GAUGE 0-15 PSI
13	4264840	1	REGULATOR - AIR
12	4002429	1	FTG HYD 45 6 MJ 4 MP
11	4103792	1	REGULATOR AIR PRESSURE
10	4271086	1	ASSY AIR BOX ENCLOSURE
9	0213584	9	WASHER LOCK SPR .25 .49 .06
8	4105721	2	WASHER FLAT .250 .56 .07 SS
7	4012935	9	NUT HEX .250 NC G8 PL
6	4256397	1	RELIEF VALVE 12 PSI
5	0417597	8	BOLT HEX .250 .500 NC G8 FT
4	4271097	1	ASSY MANIFOLD - AIR BOX
3	0985113	4	NUT LOCK NYL INS .375 NC
2	0808221	4	WASHER FLAT .375 .81 .08
1	4009644	4	BOLT HX .375 2.750 NC G8

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- TOLERANCES ON: ANGLES ±1° | FRACTIONS ±1/16 | .XX DECIMAL ±.03 | .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 427-1109

		DATE
DWN	twillis	12-19-2011
CHK	AY	12-20-2011
ENGR		
PROD ENGR	AY	12-20-2011
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HDW AIR BOX

SIZE D | DWG NO. 4277842 | REV 01

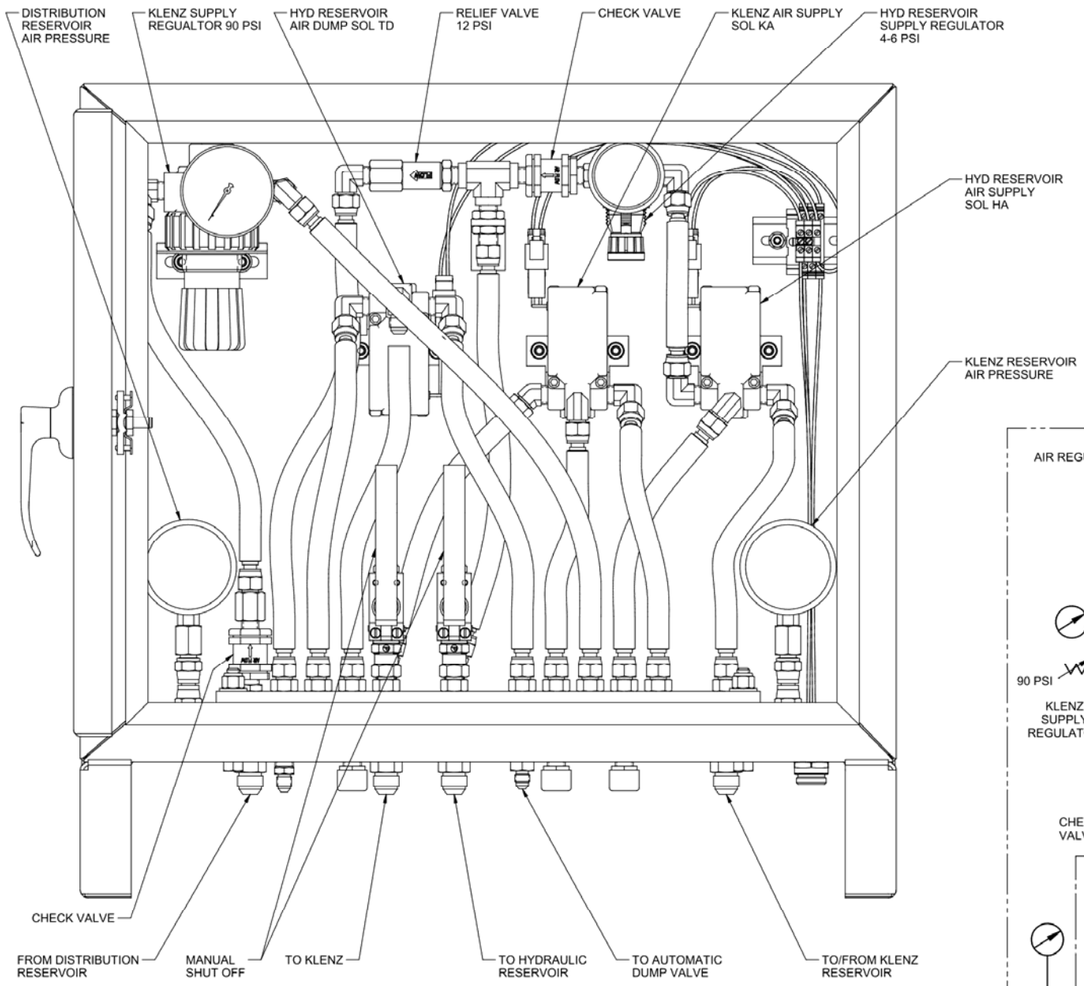
SCALE 1/2 | EST WT 79.0 lbm | SHEET 1 OF 2

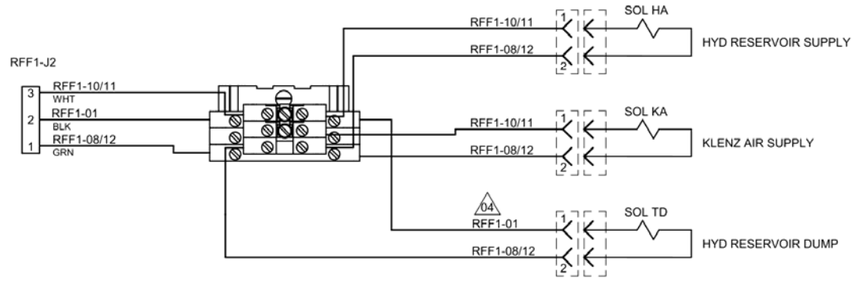
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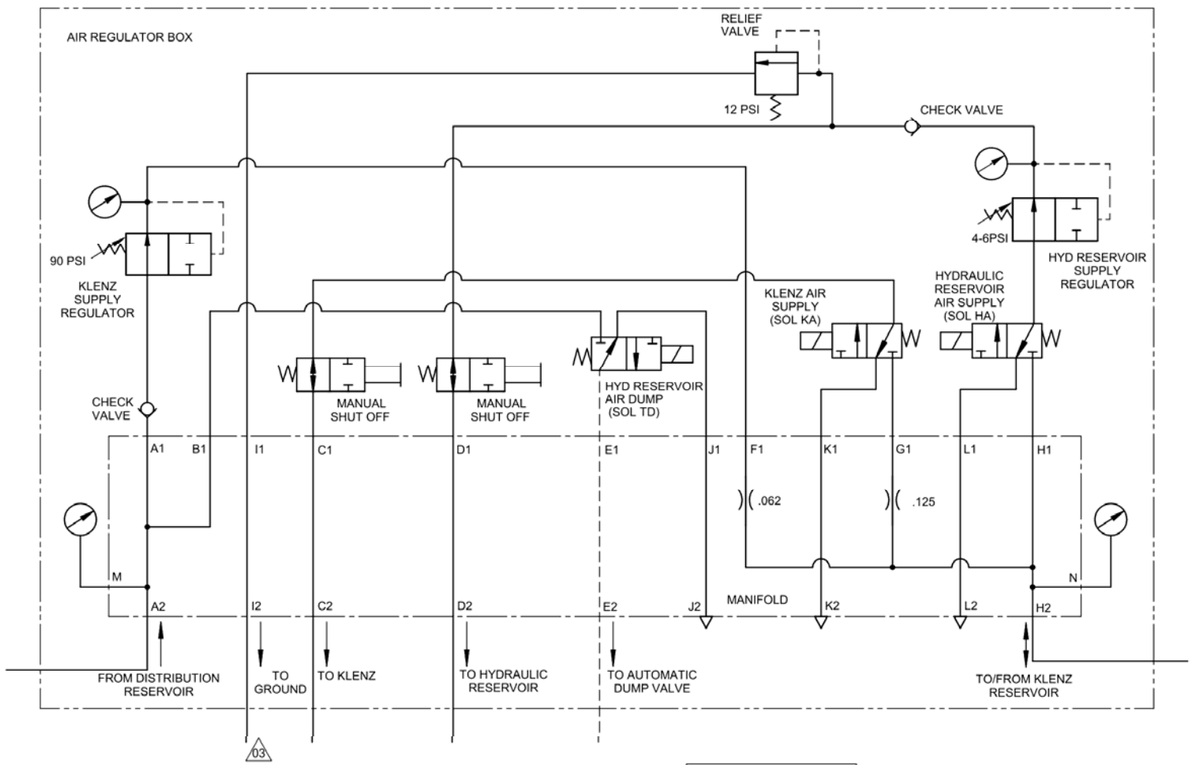
AIR BOX HARDWARE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASE	NL11-2064	12-19	TEW	AY	AY
	01	SEE SHEET 1	1321955	1-29-16	TEW	JBD	JBD





WIRING DIAGRAM



HYDRAULIC SCHEMATIC

GP HDW AIR BOX				
DRAWN twillis	SIZE D	DO NOT SCALE	DWG NO. 4277842	REV 01
ISSUED 12-19-2011	SCALE 1/2	EST WT 79.0 lbm	SHEET 2 OF 2	

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4277842			AIR BOX HARDWARE GROUP		
1	R4009644	4		· BOLT, 3/8"-16 X 2-3/4"		
2	R0808221	4		· FLATWASHER, 3/8"		
3	R0985113	4		· LOCKNUT, 3/8"-16 - NYLON		
4	R4271097	1		· MANIFOLD ASSEMBLY, AIR BOX		
	R4268037	1		· · MANIFOLD, AIR BOX		
	R4136495	1		· · ORIFICE, .062" X 1/16" MP		
	R4136497	1		· · ORIFICE, .125" X 1/16" MP		
	R0828313	1		· · VALVE, CHECK		
	R4271082	2		· · GAUGE, PRESSURE - 0-160 PSI		
	R4271087	2		· · VALVE, SHUT-OFF		
	R4271089	2		· · LEVER KIT		
	R4162499	3		· · VENT, BREATHER - 1/4"-18		
5	R0417597	8		· BOLT, 1/4"-20 X 1/2"		
6	R4256397	1		· VALVE, RELIEF - 10-12 PSI		
7	R4012935	9		· NUT, 1/4"-20		
8	R4105721	2		· FLATWASHER, 1/4" - S.S.		
9	R0213584	9		· LOCKWASHER, 1/4"		
10	R4271086	1		· BOX ASSEMBLY, AIR BOX		
11	R4103792	1		· REGULATOR, AIR PRESSURE		
12	R4002429	1		· ELBOW, 1/4" MP X 45 deg. X #6 MJ		
13	R4264840	1		· REGULATOR, AIR - 0-160 PSI		
14	R4067043	1		· GAUGE, AIR PRESSURE - 0-15 PSI		
15	R4002438	12		· ELBOW, 1/4" MP X 90 deg. X #6 MJ		
16	R4244824	1		· GAUGE, AIR PRESSURE - 0-160 PSI		
17	R4261177	3		· SOLENOID KIT, AIR - 24V		
	R4039803	3		· · SOLENOID, AIR - 24V		
	R4255415	3		· · RECEPTACLE, DT04-2P		
	R4255416	3		· · WEDGE, W2P		
	R4185763	6		· · PIN, CONTACT - 16		
18	R0828313	1		· VALVE, CHECK		
19	R4030298	1		· NIPPLE, PIPE - 1/4", HEX		
20	R4010283	2		· SCREW, #10-32 X 1/2" - P.H.		
21	R4266266	2		· BRIDGE, FIXED		
22	R4265756	1		· BRACKET END		
23	R4247473	2		· TERMINAL BLOCK, GRAY		
24	R4261175	3		· CONNECTOR KIT, DT06-2S KIT		
25	R4264183	1		· TERMINAL BLOCK, GROUND		
26	R4228909	1		· RAIL MOUNT, 3"		
27	R4265237	1		· RECEPTACLE, 3 PIN - MALE		
28	R0513704	1		· BUSHING, 1/8" FP X 1/4" MP		
29	R4031446	1		· TEE, 1/4" FP		
30	R4267558	1		· ADAPTER, 1/4" MP X #6 MJ - BULKHEAD		
31	R0810880	2		· FLATWASHER, #10		
32	R0230017	2		· NUT, #10-32		
33	R4010907	2		· LOCKWASHER, #10		
34	R4120401	10	FT	· CABLE, #16 AWG 600V		
35	R4273358	1		· MOUNT ANGLE		
36	R0812278	1		· BOLT, 1/4"-20 X 5/8"		
37	R0753118	1		· FLATWASHER, 5/16"		
38	R4002478	1		· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
		REF		DRAWING, AIR BOX HARDWARE GROUP (R427784201)		

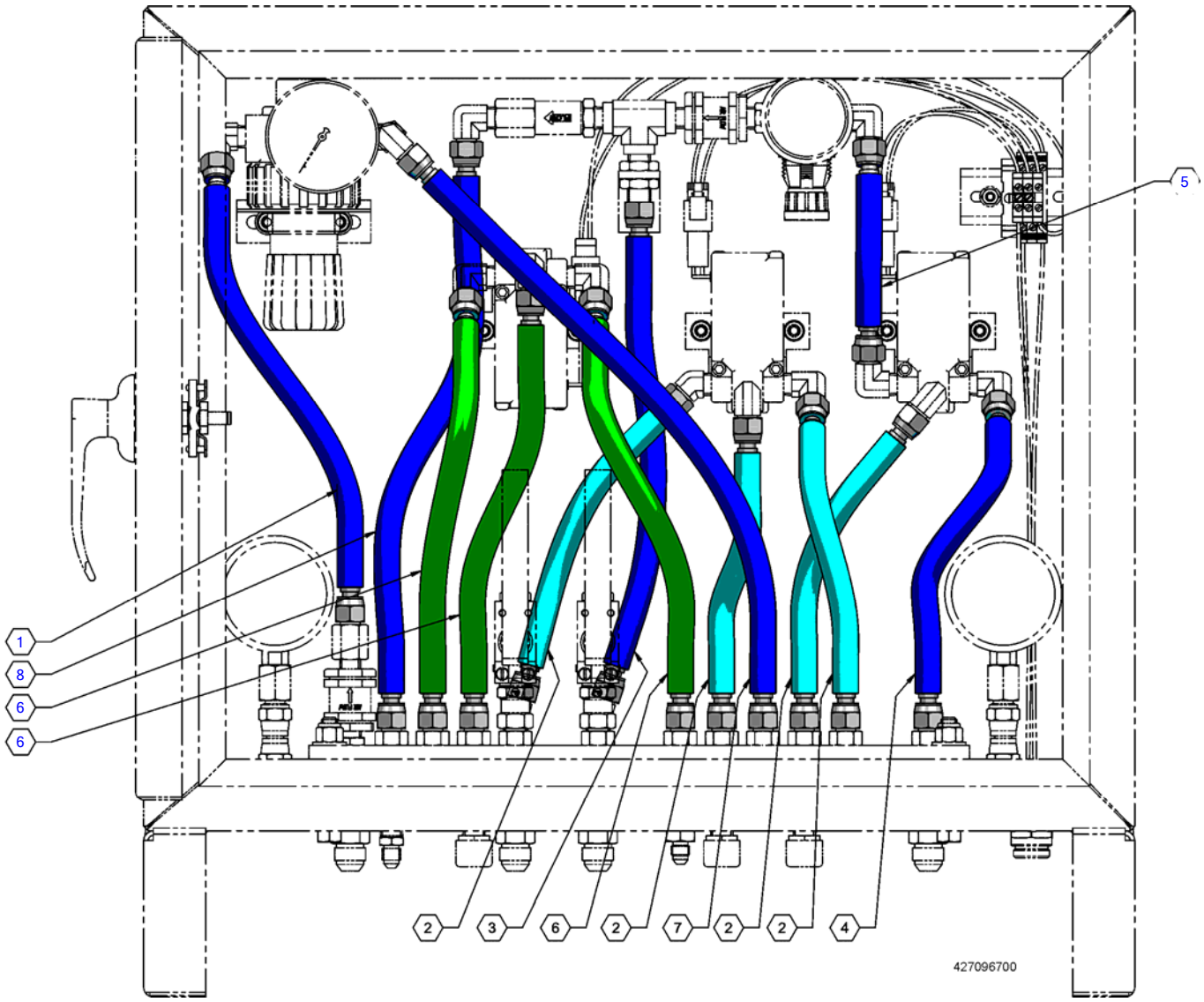
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

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AIR BOX HOSE GROUP



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AIR BOX HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4270967		AIR BOX HOSE GROUP		
1	R4271139	1	· HOSE ASSEMBLY, #6 X 12"		
2	R4271141	4	· HOSE ASSEMBLY, #6 X 8-13/16"		
3	R4271137	1	· HOSE ASSEMBLY, #6 X 13"		
4	R4271140	1	· HOSE ASSEMBLY, #6 X 9-1/2"		
5	R4271136	1	· HOSE ASSEMBLY, #6 X 5-1/2"		
6	R4271142	3	· HOSE ASSEMBLY, #6 X 11-1/2"		
7	R4271135	1	· HOSE ASSEMBLY, #6 X 17-1/2"		
8	R4271138	1	· HOSE ASSEMBLY, #6 X 15"		
		REF	DRAWING, AIR BOX HOSE GROUP (R427096700)		

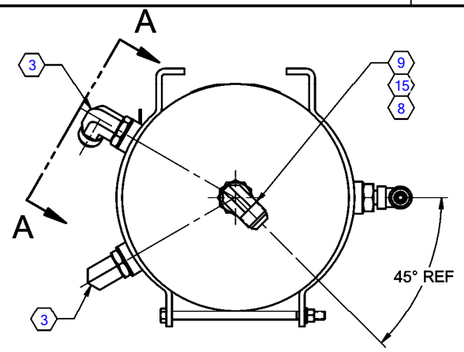
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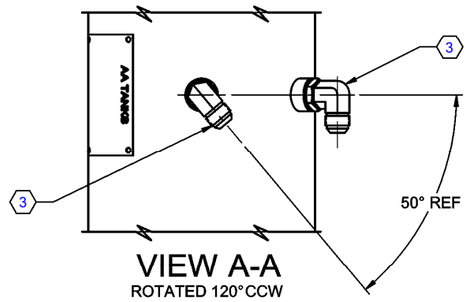
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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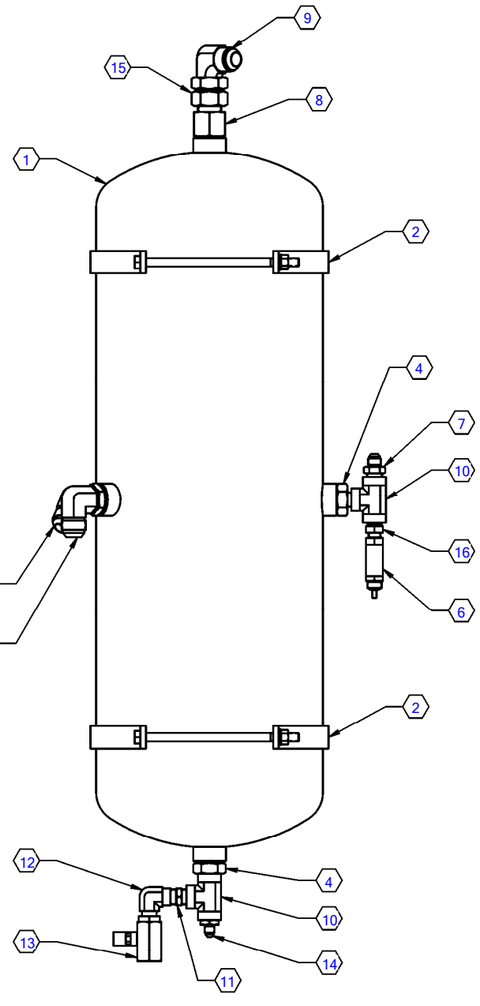
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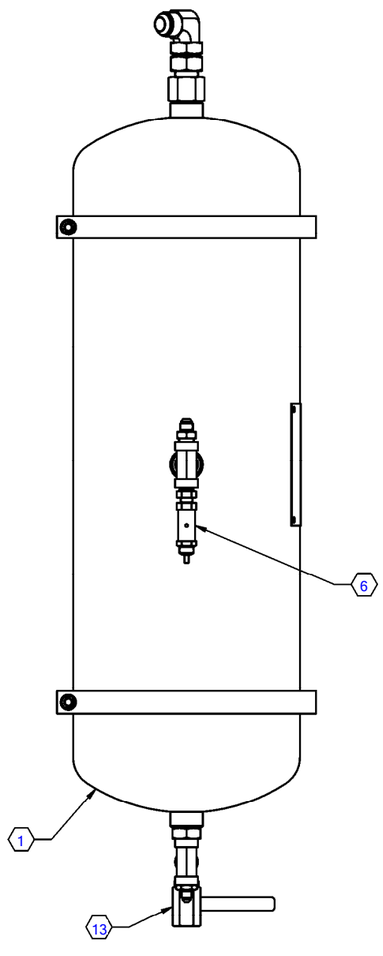
FRONT AIR RESERVOIR ASSEMBLY



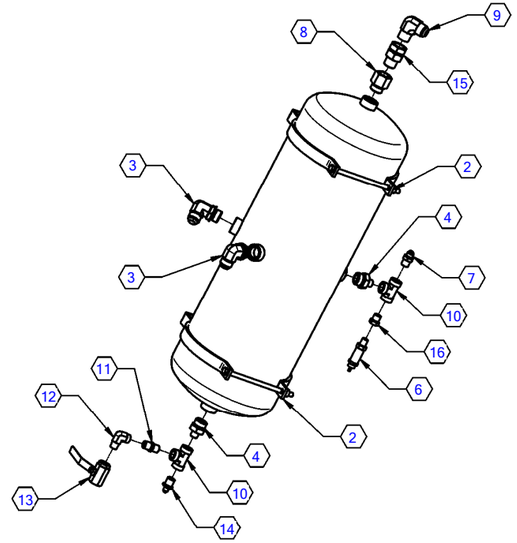


VIEW A-A
ROTATED 120°CCW





REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	NL12-1593	7-17-12	JFM	AY	AY
	01	DELE IT 5 (4031446); IT 7 WAS 0527116;					
	01	QTY IT 10 WAS 1; ADD IT 16 (4013787)	NL13-1602	2-26	TEW	JBD	JBD



EXPLODED VIEW
1:8

ITEM	PART NO.	QTY	DESCRIPTION
16	4013787	1	PIPE RED .375 .250 BSH 6000
15	4244754	1	VALVE CHECK AIR 3/4
14	4040562	1	FTG HYD 0 4 MJ 6 MP JUMP
13	4152842	1	BALL VALVE 3/8
12	4031401	1	FTG HYD 90 6MP 6FP ST
11	4032312	1	PIPE HYD NIP 6 MP 6 MP HX
10	4032315	2	PIPE HYD TEE 6 FP 6 FP 6 FP
9	4002441	1	FTG HYD 90 12 MJ 12 MP
8	4273487	1	FTG HYD 0 12 MO 12 FP
7	4011756	1	FTG HYD 0 6 MJ 6 MP
6	4255667	1	VALVE RELIEF AIR 175 PSI
4	4273497	2	FTG HYD 0 12 MO 6 MP
3	4002473	2	HYD FITTING, 90 12 MJ 12 MO
2	4117472	2	CLAMP BRACKET ASSY 10 INCH
1	4270895	1	AIR RESERVOIR - STAINLESS

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- TOLERANCES ON: ANGLES ±1° | FRACTIONS ±1/16 | .XX DECIMAL ±.03 | .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

USED ON: -

		DATE
DWN	J.MARTIN	7-17-12
CHK	A.YAO	7-17-12
ENGR	A.YAO	7-17-12
PROD ENGR	J.DILLINGER	7-17-12
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY AIR RESERVOIR FRONT

SIZE	DO NOT SALE	DWG NO.	REV
C		4277972	01

SCALE 1/4 | EST WT 40.2 lbm | SHEET 1 OF 1

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FRONT AIR RESERVOIR ASSEMBLY

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FRONT AIR RESERVOIR ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4277972		FRONT AIR RESERVOIR ASSEMBLY		
1	R4270895	1	· RESERVOIR, AIR - 10" O.D. X 30-3/4" - S.S.		
2	R4117472	2	· BRACKET, AIR RESERVOIR		
3	R4002473	2	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
4	R4273497	2	· ADAPTER, #12 MO X 3/8" MP		
5	N.P.N.		· NOT USED		
6	R4255667	1	· VALVE, RELIEF - 175 PSI		
7	R4011756	1	· ADAPTER, 3/8" MP X #6 MJ		
8	R4273487	1	· ADAPTER, #12 MO X 3/4" FP		
9	R4002441	1	· ELBOW, 3/4" MP X 90 deg. X #12 MJ		
10	R4032315	2	· TEE, 3/8" FP		
11	R4032312	1	· NIPPLE, PIPE - 3/8", HEX		
12	R4031401	1	· ELBOW, 3/8" FP X 90 deg. X 3/8" MP		
13	R4152842	1	· VALVE, BALL - 3/8"		
14	R4040562	1	· ADAPTER, 3/8" MP X #4 MJ		
15	R4244754	1	· VALVE, CHECK - 3/4"		
16	R4013787	1	· BUSHING, 1/4" FP X 3/8" MP		
		REF	DRAWING, FRONT AIR RESERVOIR ASSEMBLY (R427797201)		

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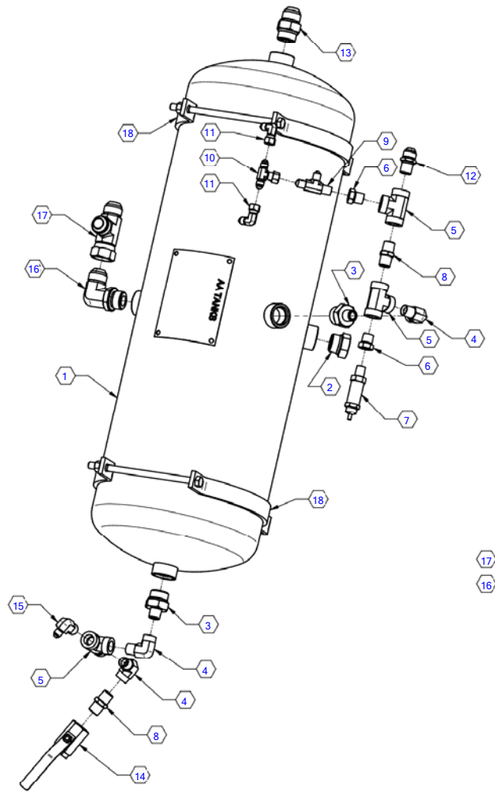
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

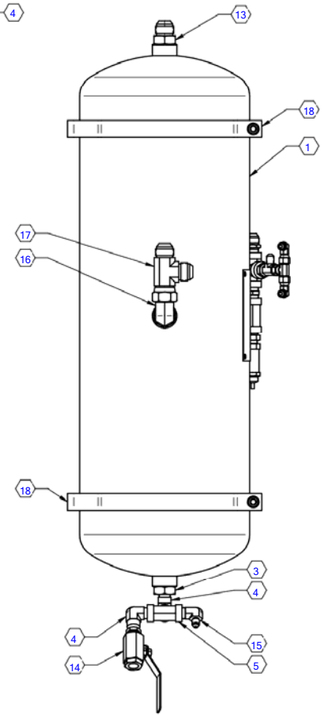
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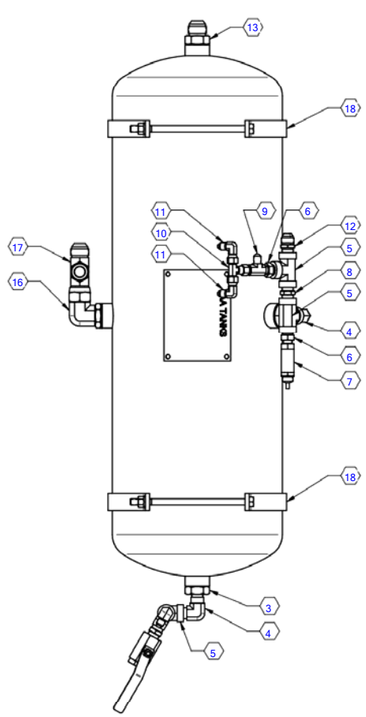
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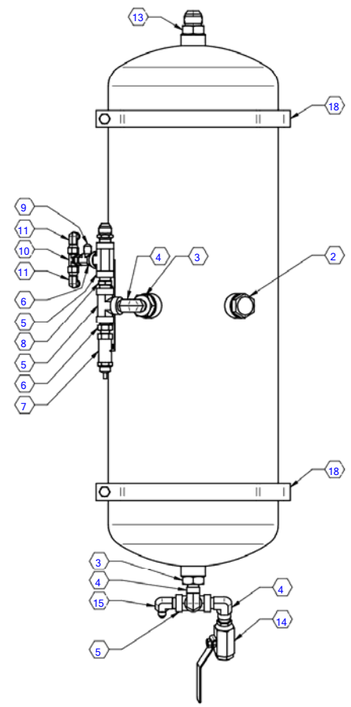
AIR DISTRIBUTION TANK ASSEMBLY

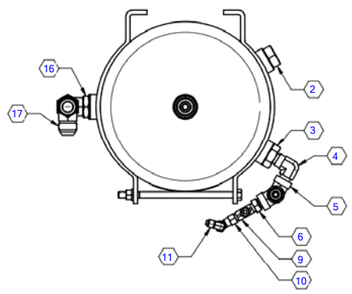
REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASE	NL13-1602	2-26	TEW	JBD	JBD

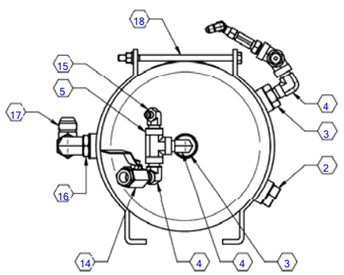












ITEM	PART NO.	QTY	DESCRIPTION
18	4117472	2	CLAMP BRACKET ASSY 10 INCH
17	4126046	1	FTG HYD TE 12 MJ 12 FJ 12 MJ
16	4002473	1	HYD FITTING, 90 12 MJ 12 MO
15	6953864	1	FTG HYD 90 4 MJ 6 MP JUMP
14	4152842	1	BALL VALVE 3/8
13	4002457	1	FTG HYD 0 12 MJ 12 MO
12	4002420	1	FTG HYD 0 8 MJ 6 MP
11	4116444	2	FTG HYD 90 4 MJ 4 FJ
10	4063332	1	FTG HYD TEE 4MJ 4MJ 4FJ
9	6946165	1	FTG HYD TE 4 MJ 4 MP 4 MJ
8	4032312	2	PIPE HYD NIP 6 MP 6 MP HX
7	4255667	1	VALVE RELIEF AIR 175 PSI
6	4013787	2	PIPE RED .375 .250 BSH 6000
5	4032315	3	PIPE HYD TEE 6 FP 6 FP 6 FP
4	4031401	3	FTG HYD 90 6MP 6FP ST
3	4273497	2	FTG HYD 0 12 MO 6 MP
2	4031553	1	JIC PLUG 3/4 WITH O-RING
1	4270895	1	AIR RESERVOIR - STAINLESS

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- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 428-0229

		DATE
DWN	twillis	2-26-13
CHK	JBD	2-26-13
ENGR		
PROD ENGR	JBD	2-26-13
PROJ APPROVAL		
MATL		

LeTourneau

ASSY AIR DISTRIBUTION TANK

SIZE D | DO NOT SALE | DWG NO. 4280232 | REV 00

SCALE 1/4 | EST WT 40.7 lbm | SHEET 1 OF 1

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AIR DISTRIBUTION TANK ASSEMBLY

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AIR DISTRIBUTION TANK ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280232		AIR DISTRIBUTION TANK ASSEMBLY		
1	R4270895	1	· RESERVOIR, AIR - 10" O.D. X 30-3/4" - S.S.		
2	R4031553	1	· PLUG, #12 MO		
3	R4273497	2	· ADAPTER, #12 MO X 3/8" MP		
4	R4031401	3	· ELBOW, 3/8" FP X 90 deg. X 3/8" MP		
5	R4032315	3	· TEE, 3/8" FP		
6	R4013787	2	· BUSHING, 1/4" FP X 3/8" MP		
7	R4255667	1	· VALVE, RELIEF - 175 PSI		
8	R4032312	2	· NIPPLE, PIPE - 3/8", HEX		
9	R6946165	1	· TEE, #4 MJ X 1/4" MP X #4 MJ		
10	R4063332	1	· TEE, #4 MJ X #4 MJ X #4 FJ - SWIVEL		
11	R4116444	2	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
12	R4002420	1	· ADAPTER, 3/8" MP X #8 MJ		
13	R4002457	1	· ADAPTER, #12 MO X #12 MJ		
14	R4152842	1	· VALVE, BALL - 3/8"		
15	R6953864	1	· ELBOW, 3/8" MP X 90 deg. X #4 MJ		
16	R4002473	1	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
17	R4126046	1	· TEE, #12 MJ X #12 FJ X #12 MJ		
18	R4117472	2	· BRACKET, AIR RESERVOIR		
		REF	DRAWING, AIR DISTRIBUTION TANK ASSEMBLY (R428023200)		

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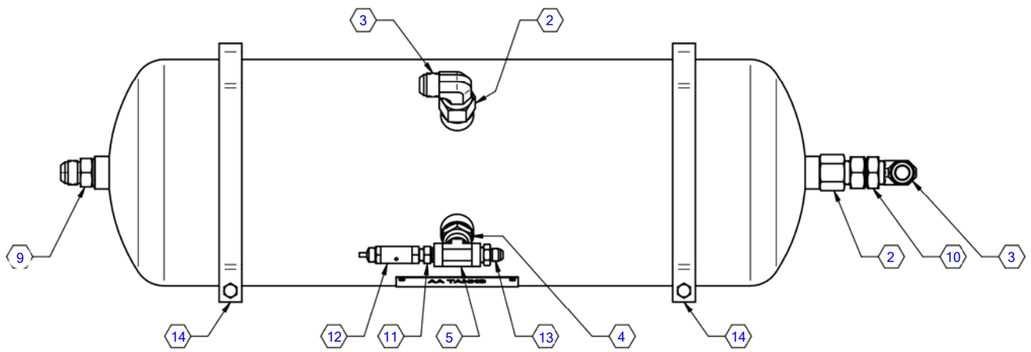
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

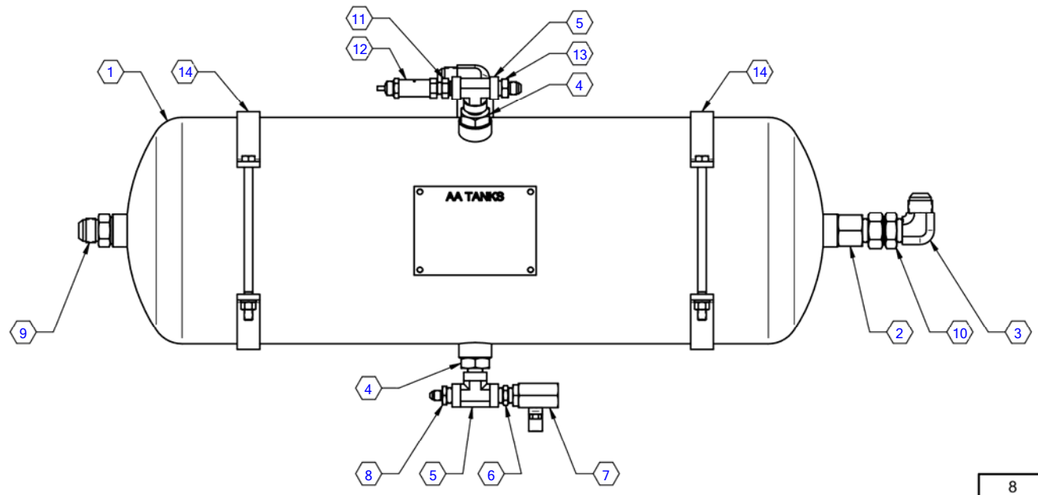
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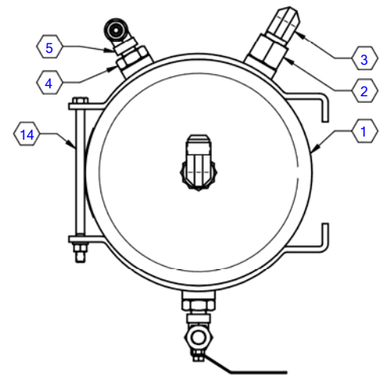
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AIR BRAKE TANK ASSEMBLY

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	NL13-1602	2-26	TEW	JBD	JBD







ITEM	PART NO.	QTY	DESCRIPTION
14	4117472	2	CLAMP BRACKET ASSY 10 INCH
13	4011756	1	FTG HYD 0 6 MJ 6 MP
12	4255667	1	VALVE RELIEF AIR 175 PSI
11	4013787	1	PIPE RED .375 .250 BSH 6000
10	4244754	1	VALVE CHECK AIR 3/4
9	4002457	1	FTG HYD 0 12 MJ 12 MO

ITEM	PART NO.	QTY	DESCRIPTION
8	4040562	1	FTG HYD 0 4 MJ 6 MP JUMP
7	4152842	1	BALL VALVE 3/8
6	4032312	1	PIPE HYD NIP 6 MP 6 MP HX
5	4032315	2	PIPE HYD TEE 6 FP 6 FP 6 FP
4	4273497	2	FTG HYD 0 12 MO 6 MP
3	4002441	2	FTG HYD 90 12 MJ 12 MP
2	4273487	2	FTG HYD 0 12 MO 12 FP
1	4270895	1	AIR RESERVOIR - STAINLESS

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- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

USED ON: 428-0229

		DATE
DWN	twillis	2-26-13
CHK	JBD	2-26-13
ENGR		
PROD ENGR	JBD	2-16-13
PROJ APPROVAL		
MATL		

LeTourneau

ASSY AIR RESERVOIR BRAKE

SIZE	DO NOT SALE	DWG NO.	REV
C		4280231	00

SCALE 1/4 | EST WT 40.0 lbm | SHEET 1 OF 1

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AIR BRAKE TANK ASSEMBLY

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AIR BRAKE TANK ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280231		AIR BRAKE TANK ASSEMBLY		
1	R4270895	1	· RESERVOIR, AIR - 10" O.D. X 30-3/4" - S.S.		
2	R4273487	2	· ADAPTER, #12 MO X 3/4" FP		
3	R4002441	2	· ELBOW, 3/4" MP X 90 deg. X #12 MJ		
4	R4273497	2	· ADAPTER, #12 MO X 3/8" MP		
5	R4032315	2	· TEE, 3/8" FP		
6	R4032312	1	· NIPPLE, PIPE - 3/8", HEX		
7	R4152842	1	· VALVE, BALL - 3/8"		
8	R4040562	1	· ADAPTER, 3/8" MP X #4 MJ		
9	R4002457	1	· ADAPTER, #12 MO X #12 MJ		
10	R4244754	1	· VALVE, CHECK - 3/4"		
11	R4013787	1	· BUSHING, 1/4" FP X 3/8" MP		
12	R4255667	1	· VALVE, RELIEF - 175 PSI		
13	R4011756	1	· ADAPTER, 3/8" MP X #6 MJ		
14	R4117472	2	· BRACKET, AIR RESERVOIR		
		REF	DRAWING, AIR BRAKE TANK ASSEMBLY (R428023100)		

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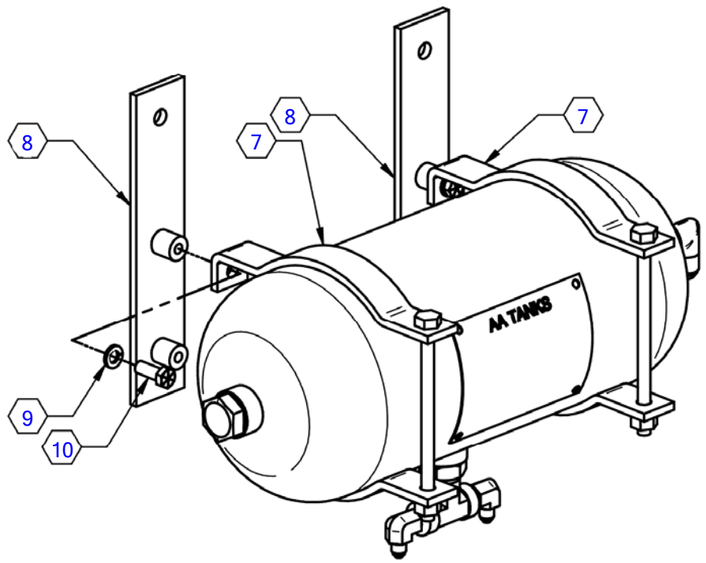
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

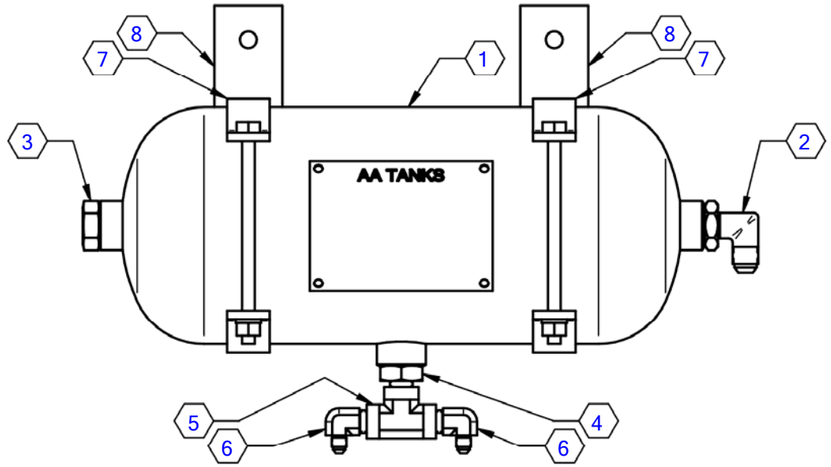
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AIR KLENZ TANK ASSEMBLY

REVISIONS						
REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
00	RELEASE	NL12-1602	2-26	TEW	AY	AY
01	ADD IT8(4257004), 9(0753123),					
01	10(0810971); MRS# 1019	NL13-0147	8-20	RAH	JBD	JBD





ITEM	PART NO.	QTY	DESCRIPTION
10	0810971	4	BOLT HX .375 1.00 NC G8 FT
9	0753123	4	WASHER LOCK SPR .375 .68 .09
8	4257004	2	STR MOUNT AIR TANK L950
7	4007414	2	CLAMP BRACKET
6	6953864	2	FTG HYD 90 4 MJ 6 MP JUMP
5	4032315	1	PIPE HYD TEE 6 FP 6 FP 6 FP
4	4273497	1	FTG HYD 0 12 MO 6 MP
3	4031553	1	JIC PLUG 3/4 WITH/O-RING
2	4040554	1	FTG HYD 90 8 MJ 12 MO JUMP
1	4270897	1	AIR RESERVOIR - STAINLESS

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, .XX DECIMAL ±.03, .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

USED ON 428-0229

		DATE
DWN	twillis	2-26-13
CHK	JBD	2-26-13
ENGR		
PROD ENGR	JBD	2-26-13
PROJ APPROVAL		
MATL		

LeTourneau

ASSY AIR RESERVOIR KLENZ

SIZE		DWG NO.	REV
B	ONOTSALE	4280230	01

SCALE	EST WT	SHEET
1/4	20.8 lbm	1 OF 1

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AIR KLENZ TANK ASSEMBLY

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AIR KLENZ TANK ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280230		AIR KLENZ TANK ASSEMBLY		
1	R4270897	1	· RESERVOIR, AIR - 7" O.D. X 16-1/2" - S.S.		
2	R4040554	1	· ELBOW, #12 MO X 90 deg. X #8 MJ		
3	R4031553	1	· PLUG, #12 MO		
4	R4273497	1	· ADAPTER, #12 MO X 3/8" MP		
5	R4032315	1	· TEE, 3/8" FP		
6	R6953864	2	· ELBOW, 3/8" MP X 90 deg. X #4 MJ		
7	R4007414	2	· BRACKET, MOUNTING		
8	R4257004	2	· MOUNT STRUCTURE, AIR TANK		
9	R0753123	4	· LOCKWASHER, 3/8"		
10	R0810971	4	· BOLT, 3/8"-16 X 1"		
		REF	DRAWING, AIR KLENZ TANK ASSEMBLY (R428023001)		

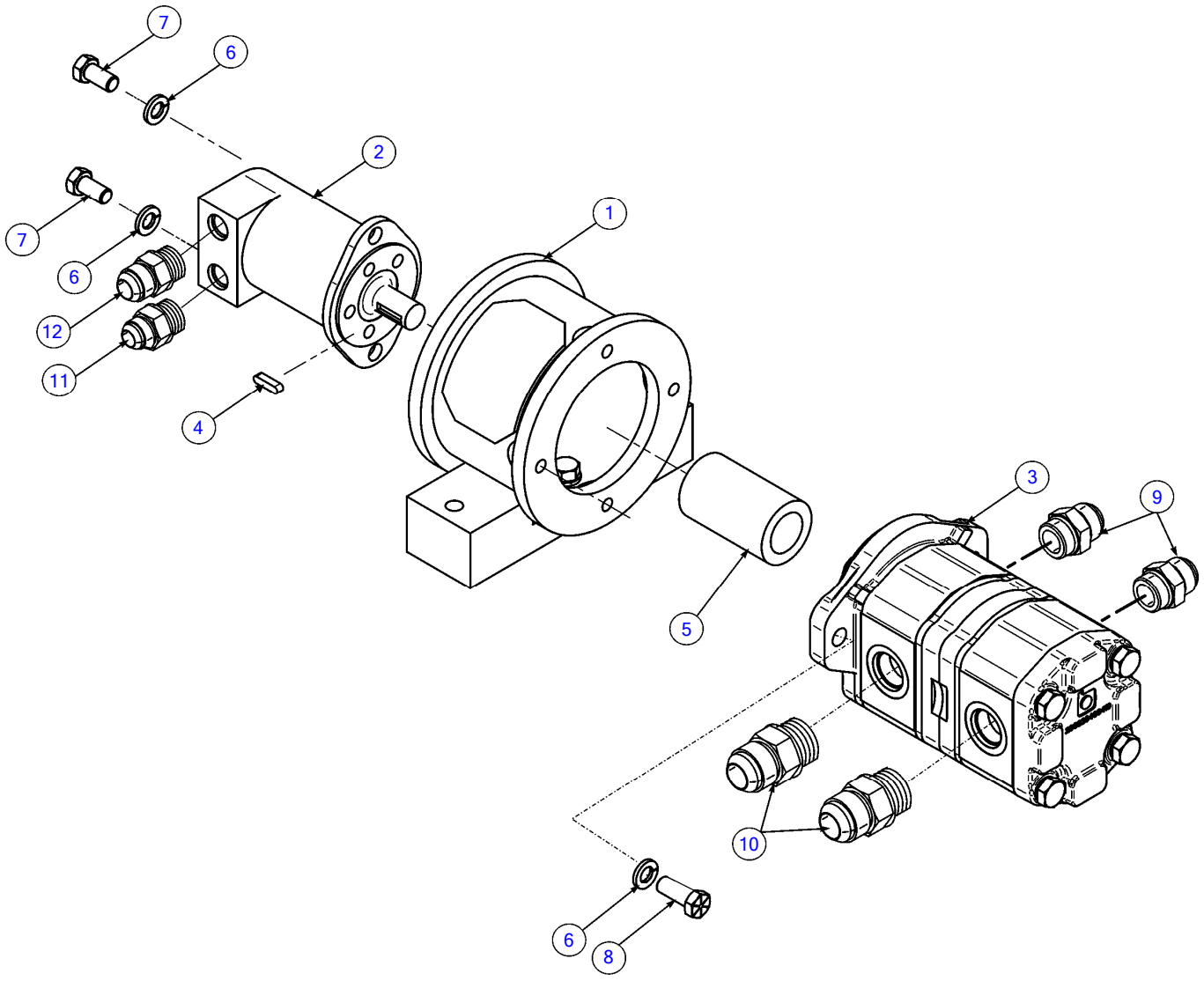
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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DRIVER FILTRATION MOTOR/PUMP ASSEMBLY



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DRIVER FILTRATION MOTOR/PUMP ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273488		DRIVER FILTRATION MOTOR/PUMP ASSEMBLY		9/19/17
	R4271071	1	· PUMP ASSEMBLY, DRIVER FILTRATION		
1	R4271069	1	· · ADAPTER, MOTOR TO PUMP		
2	R4271066	1	· · MOTOR		
	R4279451	1	· · · SEAL KIT		8/17/17
3	R4271067	1	· · PUMP		
4	R4272517	1	· · KEY, 3/16" X 3/16" X 3/4" - ROUND END		
5	R4271068	1	· · SHAFT, COUPLING		
	R4271070	1	· · BOLT KIT, MOTOR/PUMP		9/19/17
6	R0753123	4	· · · LOCKWASHER, 3/8"		
7	R0810970	2	· · · BOLT, 3/8"-16 X 3/4"		
8	R0810971	2	· · · BOLT, 3/8"-16 X 1"		
9	R4021412	2	· ADAPTER, #10 MO X #12 MJ		
10	R4002457	2	· ADAPTER, #12 MO X #12 MJ		
11	R4002454	1	· ADAPTER, #6 MO X #6 MJ		
12	R4020772	1	· ADAPTER, #6 MO X #8 MJ		
		REF	DRAWING, MOTOR/PUMP ASSEMBLY (R427107103)		

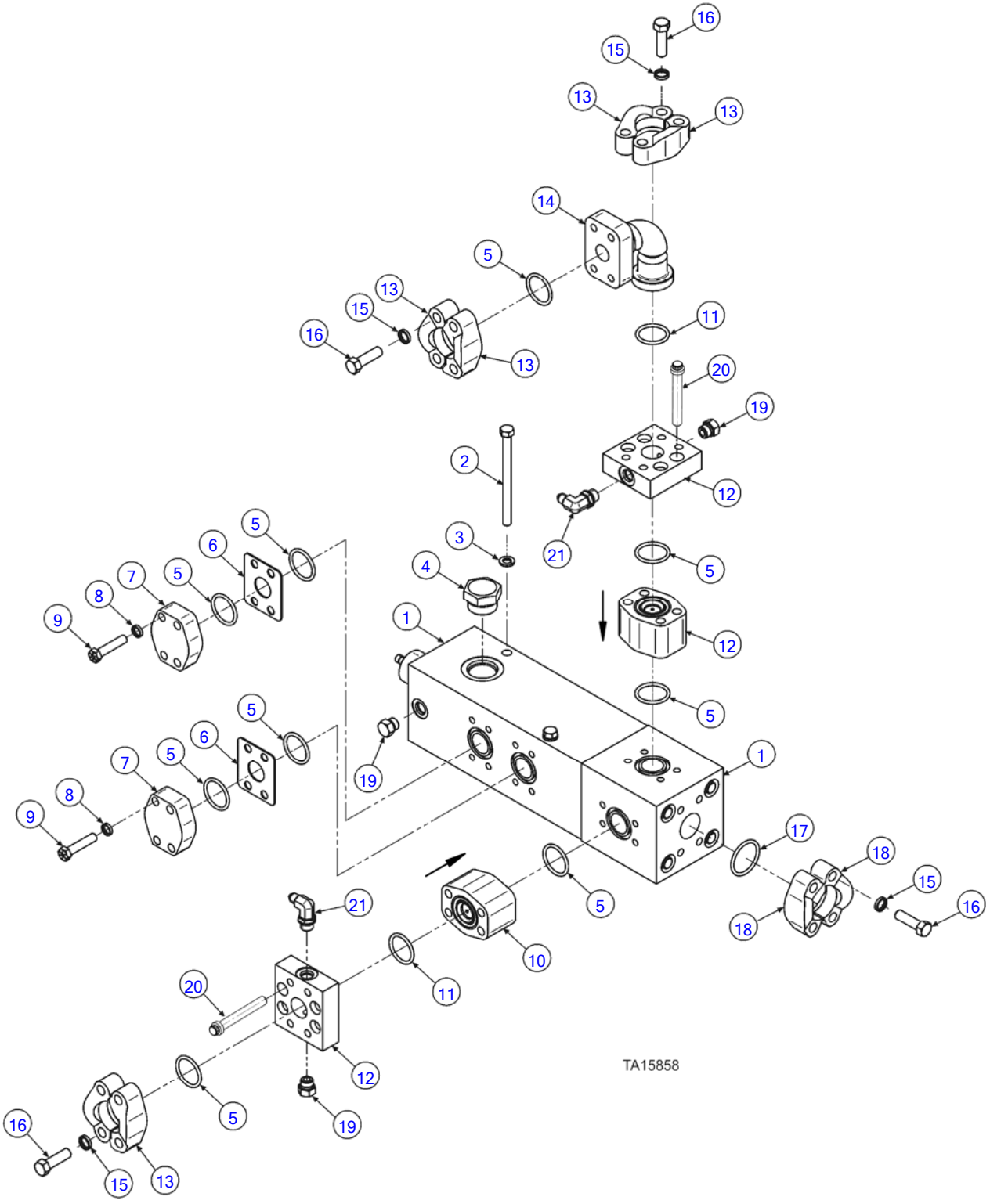
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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JUNCTION VALVE ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4275773		JUNCTION VALVE ASSEMBLY		8/11/17
1	R4248914	1	· VALVE, JUNCTION - STEERING (PAGE 8.24-8.24A)		
2	R4009649	2	· BOLT, 3/8"-16X5"		
3	R0753123	2	· LOCKWASHER, 3/8"		
4	R4040567	1	· PLUG, #16 MO		
5	R4105005	9	· O-RING, 1-1/4" I.D. - POLYURETHANE		
6	R4219017	2	· PLATE, CONNECTOR-1"		
7	R4008732	2	· PLUG, SF-1"		
8	R4210347	8	· FLATWASHER, 3/8" - HARDENED		
9	R0829683	8	· BOLT, 3/8"-16X 1-3/4"		
10	R4150321	2	· VALVE, CHECK - 1"SF		
	R4138036	2	· · O-RING, 1-1/2" I.D. - POLYURETHANE		8/5/14
	R4267979	2	· · O-RING, 1-1/4" I.D. - POLYURETHANE		8/5/14
11	R4267979	2	· O-RING, 1-1/4" I.D. - POLYURETHANE		
12	R4241394	2	· TEST BLOCK, 1" S.F.		
13	R4269658	6	· FLANGE HALF, 1"		
14	R4255274	1	· ELBOW STRUCTURE, 1" S.F. X 90 deg.		
15	R4210348	16	· FLATWASHER, 7/16" - HARDENED		
16	R4213614	16	· BOLT, 7/16"-14 x 1-3/4"		
17	R4068357	1	· O-RING, 1-1/2" I.D. - POLYURETHANE		
18	R4186400	2	· FLANGE HALF, 1-1/4"		
19	R4030061	3	· PLUG, #6 MO		
20	R4001842	8	· CAPSCREW, 3/8"-16 X 3"		8/11/17
21	R4040552	2	· ELBOW, #6 MO X 90 deg. x #4 MJ		
		REF	DRAWING, JUNCTION VALVE ASSEMBLY (R427577302)		8/11/17

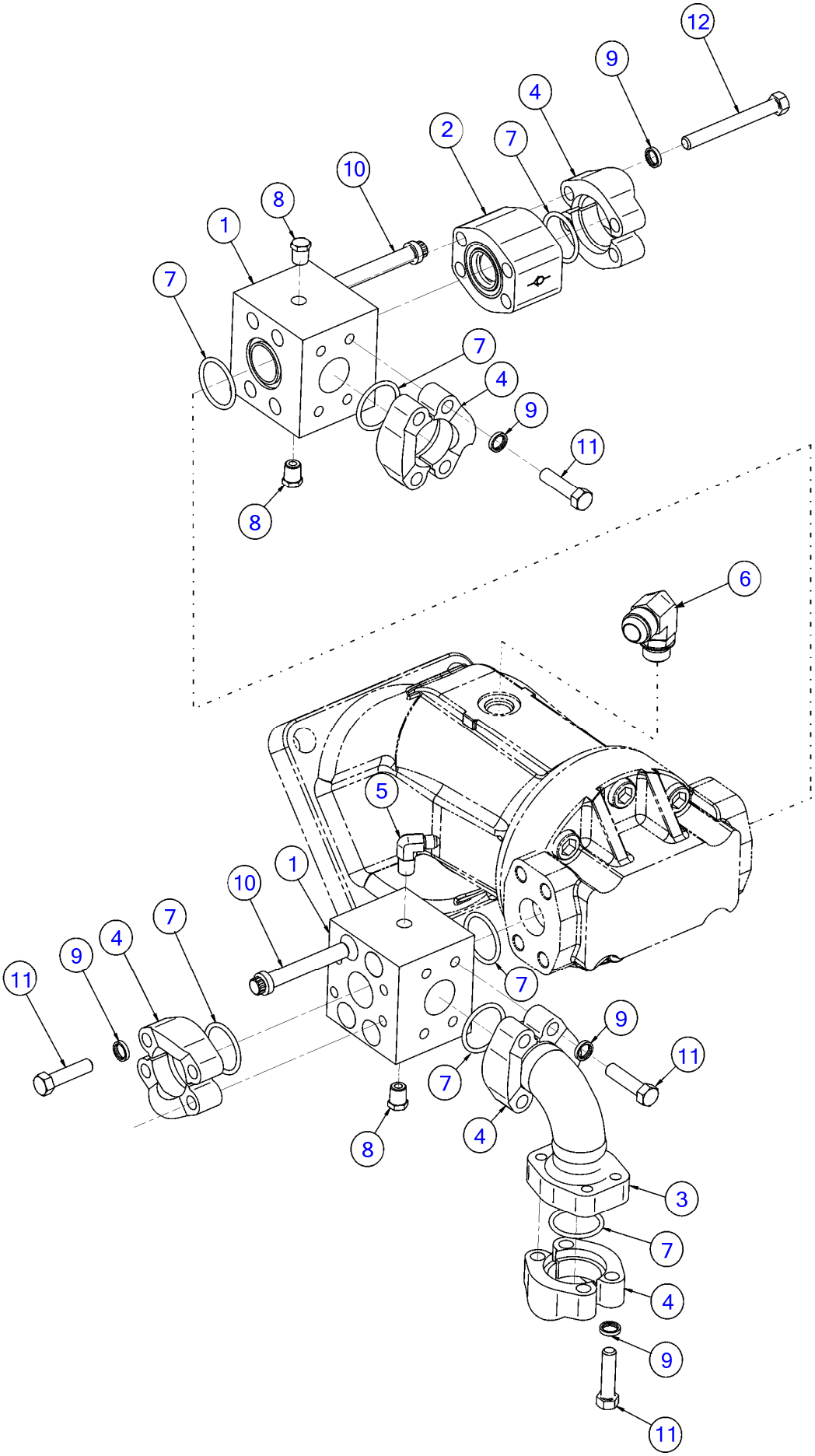
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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FAN MOTOR MANIFOLD GROUP



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FAN MOTOR MANIFOLD GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4278380		FAN MOTOR MANIFOLD GROUP		8/5/14
1	R4186108	2	· BLOCK, MANIFOLD - SERVICE PORT		
2	R4133410	1	· VALVE, CHECK - 1-1/4" S.F.		
	R4268036	1	· · O-RING, 1-3/4" I.D. - POLYURETHANE		8/5/14
	R4068357	1	· · O-RING, 1-1/2" I.D. - POLYURETHANE		8/5/14
3	R4255268	1	· ELBOW STRUCTURE, 1-1/4" S.F. X 90 deg.		
4	R4186400	10	· FLANGE HALF, 1-1/4"		
5	R4011748	1	· ELBOW, 1/4" MP X 90 deg. X #4 MJ		
6	R4081386	1	· ELBOW, #10 MO X 90 deg. X #12 MJ		
7	R4068357	7	· O-RING, 1-1/2" I.D. - POLYURETHANE		
8	R4013779	3	· PLUG, PIPE - 1/4", HEX HD		
9	R4210348	20	· FLATWASHER, 7/16" - HARDENED		
10	R4001877	8	· CAPSCREW, 1/2"-13 X 3-1/4"		
11	R4213614	16	· BOLT, 7/16"-14 X 1-3/4"		
12	R4009517	4	· BOLT, 7/16"-14 X 3-3/4"		
		REF	DRAWING, FAN MOTOR MANIFOLD GROUP (R427838000)		

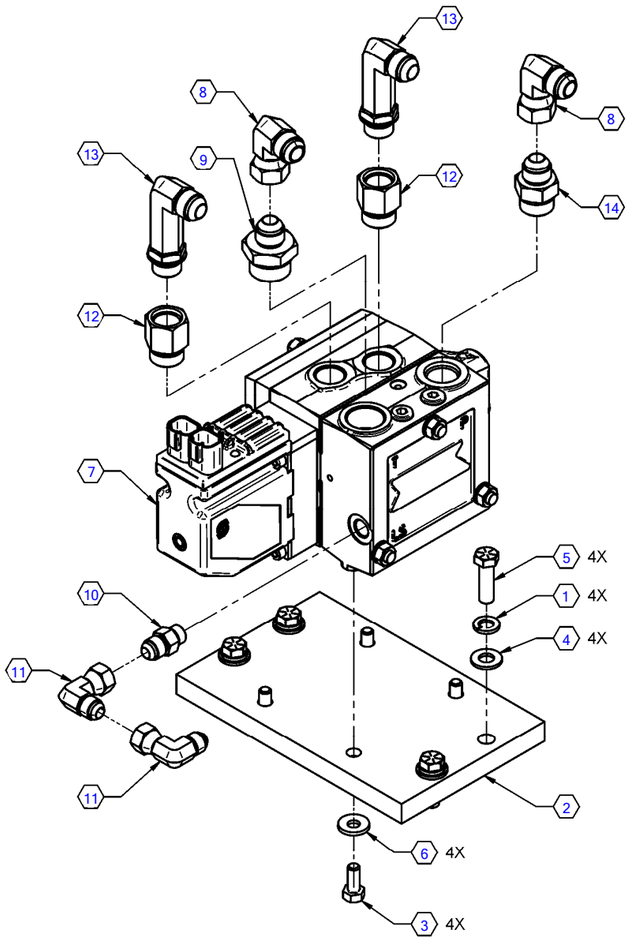
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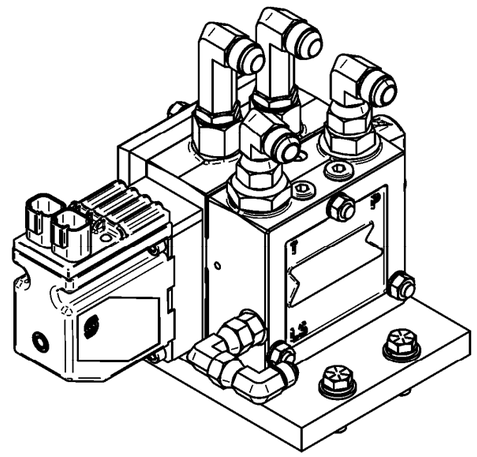
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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PROPORTIONAL VALVE SUB-ASSEMBLY





1:2

ITEM	PART NO.	QTY	DESCRIPTION
14	4119193	1	FTG HYD 0 8 MJ 10 MO
13	4129393	2	FTG HYD 90 8MJ 8MO LONG
12	4256361	2	FTG HYD 0 10 MO 8 FO
11	4002478	2	FTG HYD 90 6 MJ 6 FJ SWVL
10	4237965	1	FTG HYD 0 6MJ 5MO
9	4040550	1	FTG HYD 0 8 MJ 12 MO JUMP
8	4002479	2	HYD FITTING, 90-DEG 8 MJ 8 FJ
7	4290000	1	ASSY PVG32 PROPORTIONAL VALVE
6	4285242	4	WASH BELL HRD .331 .827 .098
5	0808476	4	BOLT HX .375 1.250 NC G8
4	0808221	4	WASHER FLAT .375 .81 .08
3	0988144	4	BOLT HX .313 .750 NC G8 FT
2	4238024	1	PLATE VALVE BASE
1	0753123	4	WASHER LOCK SPR .375 .68 .09

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- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

USED ON: 428-9629

		DATE
DWN	twillis	1-30-17
CHK	EER	1-30-17
ENGR	EER	1-30-17
PROD ENGR	JBD	
PROJ APPROVAL		
MATL	PURCHASED C	

JOYGLOBAL

SUB-ASSY PROPORTIONAL VALVE

SIZE C | DO NOT SCALE | DWG NO 4290580 | REV 00

SCALE N/A | EST WT 32.6 lbm | SHEET 1 OF 1

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PROPORTIONAL VALVE SUB-ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4290580		PROPORTIONAL VALVE SUB-ASSEMBLY		
1	R0753123	4	· LOCKWASHER, 3/8"		
2	R4238024	1	· MOUNT PLATE, VALVE		
3	R0988144	4	· BOLT, 5/16"-18 X 3/4"		
4	R0808221	4	· FLATWASHER, 3/8"		
5	R0808476	4	· BOLT, 3/8"-16 X 1-1/4"		
6	R4285242	4	· FLATWASHER, 5/16" I.D. X 13/16" O.D. X 1/8" - CONICAL		
7	R4290000	1	· VALVE ASSEMBLY, PROPORTIONAL - PVG 32		
	R4241456	1	· · MODULE,SIDE - PUMP - PVP		
	R4241457	1	· · VALVE, BASIC - PVB		
	R4241458	1	· · SPOOL, MAIN - PVBS		
	R4241459	1	· · MECHANICAL ACTUATION, PVM		
	R4282175	1	· · ELECTRICAL ACTIVATION, PVED-CC		
	R4290481	1	· · END PLATE, PVS		
	R4241462	1	· · ASSEMBLY KIT, PVAS		
	R4241482	1	· · SEAL KIT		
8	R4002479	2	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
9	R4040550	1	· ADAPTER, #12 MO X #8 MJ		
10	R4237965	1	· ADAPTER, #5 MO X #6 MJ		
11	R4002478	2	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
12	R4256361	2	· ADAPTER, #8 FO X #10 MO		
13	R4129393	2	· ELBOW, #8 MO X 90 deg. X #8 MJ		
14	R4119193	1	· ADAPTER, #10 MO X #8 MJ		
		REF	DRAWING, PROPORTIONAL VALVE SUB-ASSEMBLY (R429058000)		

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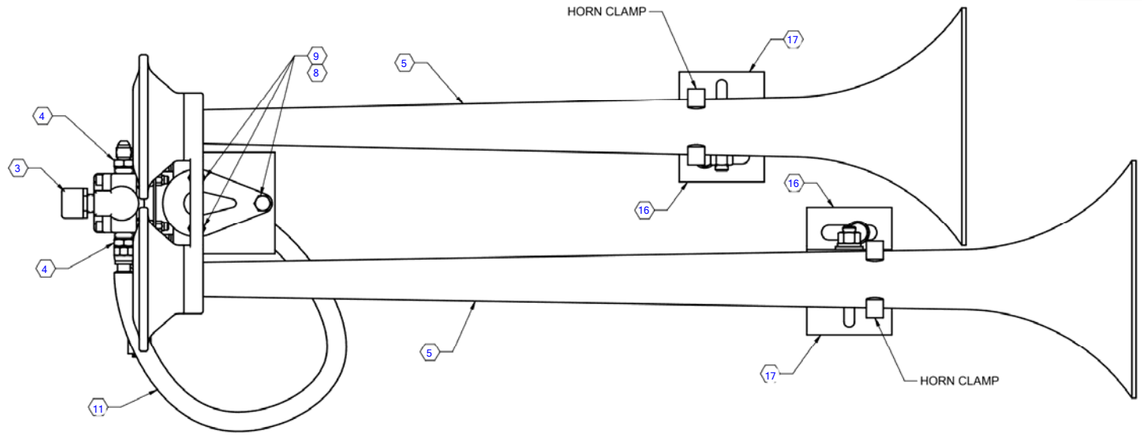
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

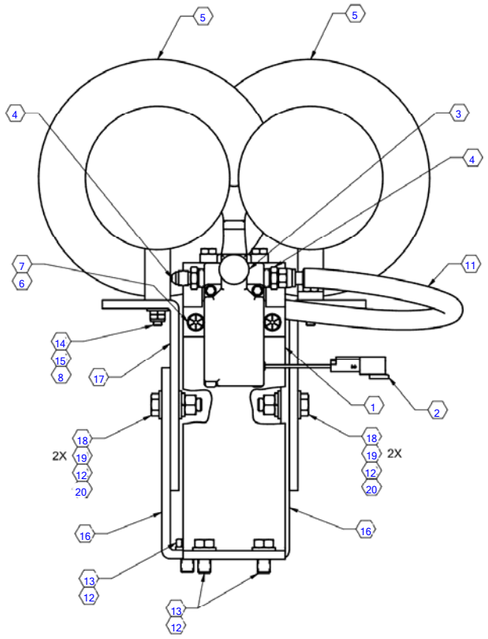
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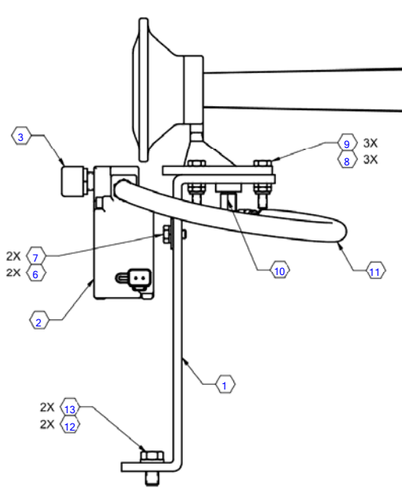
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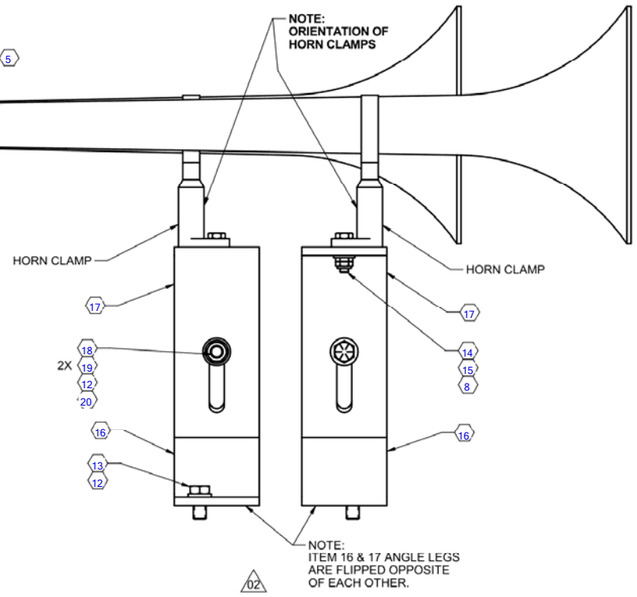
AIR HORN KIT

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASED PRINT	NL12-2016	3-28-12	RRM	AY	AY
	01	ITEM 12 & 13 WAS QTY 2 EA;		7-23-12	RAH	AY	AY
	01	ITEM 1 WAS P/N 4163819; ITEM 11 WAS P/N 4222544	NL12-1622	8-27-12	JFM	BS	BS
	02	REORIENT HORN CLAMPS; CHG'D ITEM 14; ITEM 12 WAS QTY 4;					
	02	ITEM 13 WAS P/N 0788159; ADDED ITEM 17,18,19,20 & NOTE	NL12-1645	10-812	JFM	BS	BS









ITEM	PART NO.	QTY	DESCRIPTION
20	0812921	2	NUT HX 0.3756UNCB G8 PL
19	0808221	4	WASHER FLAT .375 .81 .08
18	0808476	2	BOLT HX .375 1.250 NC G8
17	4278925	2	TOP FRT SUPP'T HORN MNT BRK'T
16	4278924	2	BTM FRT SUPP'T HORN MNT BRK'T
15	4010923	2	WASHER FLAT .250 .63 .08
14	0814157	2	BOLT HX .250 1.000 NC G8
13	0810970	4	BOLT HX .375 .750 NC G8 FT
12	0753123	6	WASHER LOCK SPR .375 .68 .09
11	4255483	1	HOSE!2JJ50PSI
10	4078933	1	FTG HYD 90 4 MJ 2 MP 1.2 LG
9	4009612	3	BOLT HX .250 1.250 NC G8
8	4016015	5	NUT LOCK NYL INS .250 NC
7	0417597	2	BOLT HEX .250 .500 NC G8 FT
6	0213584	2	WASHER LOCK SPR .25 .49 .06
5	4213818	1	HORN AIR
4	4016785	2	FTG HYD 0 4 MJ 4 MP
3	4162499	1	BREATHER VENT
2	4261177	1	AIR SOLENOID KIT
1	4274709	1	REAR MOUNT, HORN MOUNT BRACKET

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- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	J.MARTIN	3-28-12
CHK	A.YAO	3-28-12
ENGR	A.YAO	3-28-12
PROD ENGR	A.YAO	3-28-12
PROJ APPROVAL		
MATL		

LeTourneau, Inc.

KIT AIR HORN

SIZE D | DO NOT SCALE | DWG NO. 4270891 | REV 02

SCALE 1/2 | EST WT 25.5 lbm | SHEET 1 OF 1

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AIR HORN KIT

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AIR HORN KIT

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4270891		AIR HORN KIT		
1	R4274709	1	· MOUNT BRACKET, HORN - REAR		
2	R4261177	1	· SOLENOID KIT, AIR - 24V		
	R4039803	1	· · SOLENOID, AIR - 24V		
	R4255415	1	· · RECEPTACLE, DT04-2P		
	R4255416	1	· · WEDGE, W2P		
	R4185763	2	· · PIN, CONTACT - 16		
3	R4162499	1	· VENT, BREATHER - 1/4"-18		
4	R4016785	2	· ADAPTER, 1/4" MP X #4 MJ		
5	R4213818	1	· HORN, AIR		
6	R0213584	2	· LOCKWASHER, 1/4"		
7	R0417597	2	· BOLT, 1/4"-20 X 1/2"		
8	R4016015	5	· LOCKNUT, 1/4"-20 - NYLON		
9	R4009612	3	· BOLT, 1/4"-20 X 1-1/4"		
10	R4078933	1	· ELBOW, 1/8" MP X 90 deg. X #4 MJ X 1-3/16"		
11	R4155483	1	· HOSE ASSEMBLY, #4 X 12"		
12	R0753123	6	· LOCKWASHER, 3/8"		
13	R0810970	4	· BOLT, 3/8"-16 X 3/4"		
14	R0814157	2	· BOLT, 1/4"-20 X 1"		
15	R4010923	2	· FLATWASHER, 1/4"		
16	R4278924	2	· MOUNT BRACKET, HORN - FRONT, BOTTOM		
17	R4278925	2	· MOUNT BRACKET, HORN - FRONT, TOP		
18	R0808476	2	· BOLT, 3/8"-16 X 1-1/4"		
19	R0808221	4	· FLATWASHER, 3/8"		
20	R0812921	2	· NUT, 3/8"-16		
			DRAWING, AIR HORN KIT (R427089102)		

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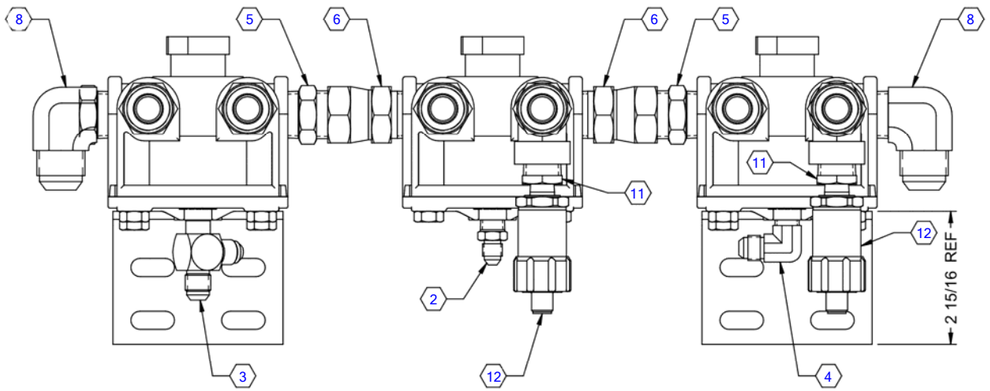
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

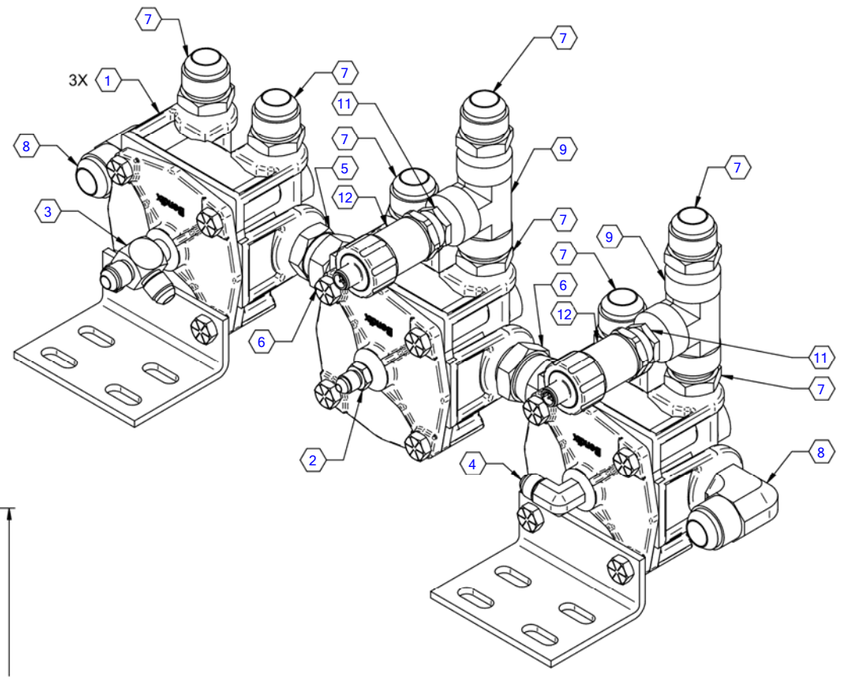
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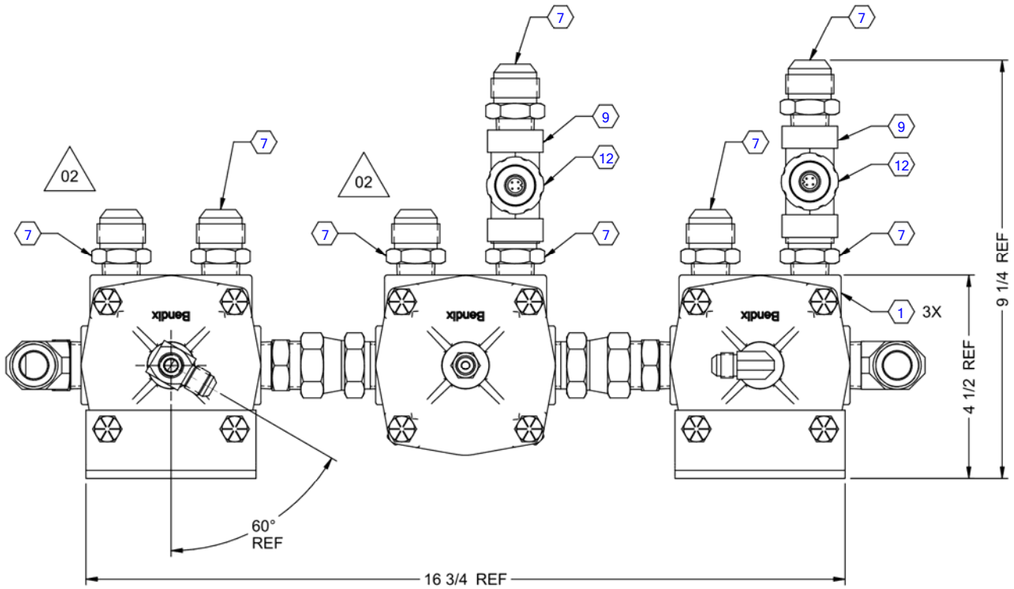
FRONT RELAY VALVE ASSEMBLY

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASED	NL11-0987	10-4-11	RRM	AY	AY
B2	01	ITEM 12 WAS P/N 4255494;QTY REF	NL12-1557	5-7-12	JFM	BS	BS
	02	DEL IT 10(403-2313), IT 7 (2) WAS IT 10,					
	02	IT 7 QTY 8 WAS 6 PER MRS #851	NL13-0114	2-14	RAH	JBD	JBD





1:2



NOTE:

EACH ITEM 1 IS SUPPLIED WITH MOUNT BRACKET, HOWEVER, ONLY TWO (2) ARE NEEDED AS SHOWN.

ITEM	PART NO.	QTY	DESCRIPTION
12	4255489	2	TRANSMITTER PRESS 0-200 PSIG
11	4013788	2	PIPE RED .500 .250 BSH 6000
9	4032316	2	PIPE TEE 1/2FPX1/2FPX1/2FP HYD
8	4002441	2	FTG HYD 90 12 MJ 12 MP
7	4015753	8	FTG HYD 0 12 MJ 8 MP JUMP
6	4244753	2	FTG HYD 0 12 FJ 12 MP SWV
5	4002422	3	FTG HYD 0 12 MJ 12 MP
4	4002438	1	FTG HYD 90 6 MJ 4 MP
3	4043024	1	FTG HYD TE 6 MJ 4 MP 6 MJ
2	4016785	1	FTG HYD 0 4 MJ 4 MP
1	4256383	3	RELAY VALVE - ARCTIC - R12

02

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- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

USED ON: 427-0845

		DATE
DWN	rmiller	10-04-11
CHK	AYAO	10-04-11
ENGR		
PROD ENGR	AYAO	10-04-11
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY RELAY VALVE L1350

SIZE		DWG NO.	REV
C	D TSALE	4273474	02

SCALE	EST WT	SHEET
1/2	29.9 lbm	1 OF 1

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FRONT RELAY VALVE ASSEMBLY

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FRONT RELAY VALVE ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273474		FRONT RELAY VALVE ASSEMBLY		
1	R4256383	3	· VALVE, RELAY - R12 BENDIX		
	R4261362	3	· · REPAIR KIT, RELAY VALVE		
	R4261665	3	· · · O-RING		
	R4261664	3	· · · BACKUP RING		
	R4261360	3	· · · SEAL KIT		
	R4261667	3	· · · SPRING		
2	R4016785	1	· ADAPTER, 1/4" MP X #4 MJ		
3	R4043024	1	· TEE, #6 MJ X 1/4" MP X #6 MJ		
4	R4002438	1	· ELBOW, 1/4" MP X 90 deg. X #6 MJ		
5	R4002422	3	· ADAPTER, 3/4" MP X #12 MJ		
6	R4244753	2	· ADAPTER, 3/4" MP X #12 FJ - SWIVEL		
7	R4015753	8	· ADAPTER, 1/2" MP X #12 MJ		
8	R4002441	2	· ELBOW, 3/4" MP X 90 deg. X #12 MJ		
9	R4032316	2	· TEE, 1/2" FP		
10	N.P.N.		· NOT USED		
11	R4013788	2	· BUSHING, 1/4" FP X 1/2" MP		
12	R4255489	2	· TRANSMITTER, PRESSURE - 0-200 PSI		
		REF	DRAWING, FRONT RELAY VALVE ASSEMBLY (R427347402)		

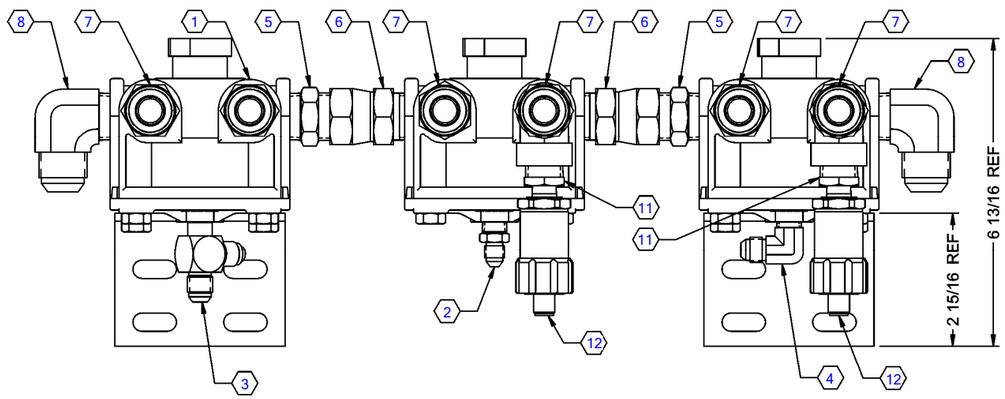
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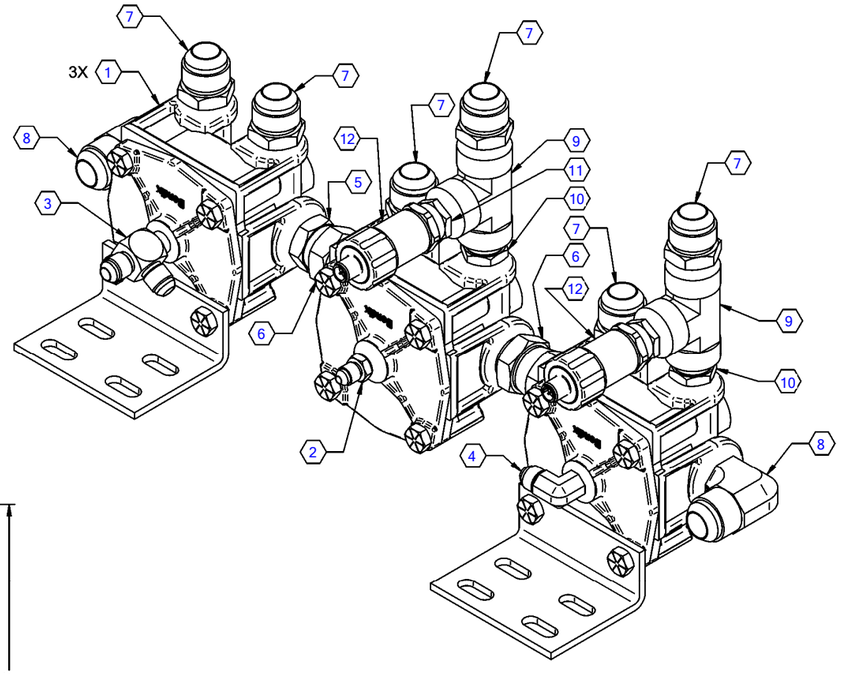
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

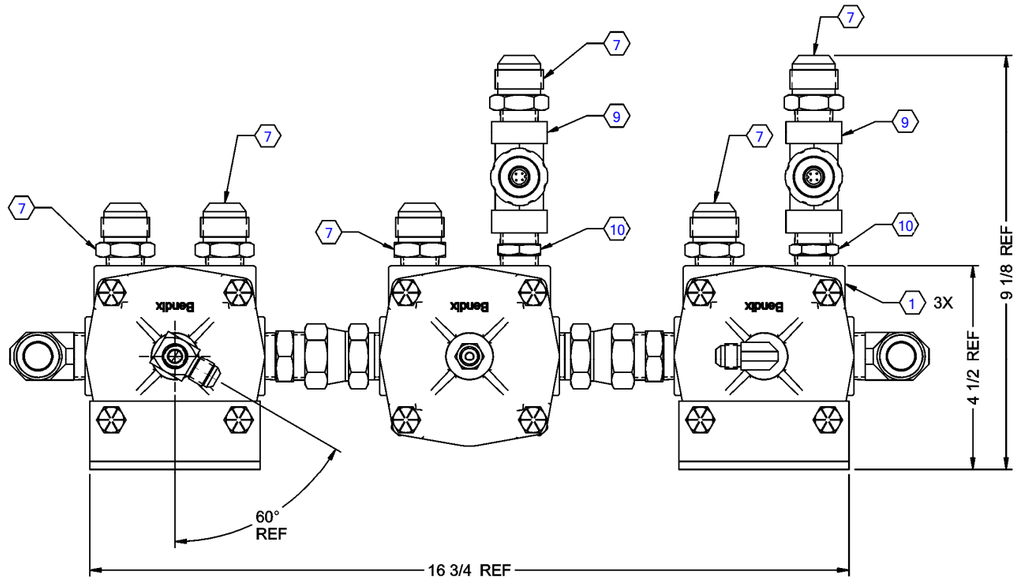
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REAR RELAY VALVE ASSEMBLY







NOTE:

EACH ITEM 1 IS SUPPLIED WITH MOUNT BRACKET, HOWEVER, ONLY TWO (2) ARE NEEDED AS SHOWN.

ITEM	PART NO.	QTY	DESCRIPTION
12	4255489	2	TRANSMITTER PRESS 0-200 PSIG
11	4013788	2	PIPE RED .500 .250 BSH 6000
10	4032313	2	PIPE HYD NIP 8 MP 8 MP HX
9	4032316	2	PIPE TEE 1/2FPX1/2FPX1/2FP HYD
8	4002441	2	FTG HYD 90 12 MJ 12 MP
7	4015753	6	FTG HYD 0 12 MJ 8 MP JUMP
6	4244753	2	FTG HYD 0 12 FJ 12 MP SWV
5	4002422	2	FTG HYD 0 12 MJ 12 MP
4	4002438	1	FTG HYD 90 6 MJ 4 MP
3	4043024	1	FTG HYD TE 6 MJ 4 MP 6 MJ
2	4016785	1	FTG HYD 0 4 MJ 4 MP
1	4256383	3	RELAY VALVE - ARCTIC - R12

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- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

USED ON 427-0845

		DATE
DWN	rmiller	10-04-11
CHK	AYAO	10-04-11
ENGR		
PROD ENGR	AYAO	10-04-11
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY RELAY VALVE L18/2350 RXL

SIZE C | DO NOT SCALE | DWG NO. 4273473 | REV 03

SCALE 1/2 | EST WT 30.4 lbm | SHEET 1 OF 1

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REAR RELAY VALVE ASSEMBLY

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REAR RELAY VALVE ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273473		REAR RELAY VALVE ASSEMBLY		6/21/18
1	R4256383	3	· VALVE, RELAY - R12 BENDIX		
	R4261362	3	· · REPAIR KIT, RELAY VALVE		
	R4261665	3	· · O-RING		
	R4261664	3	· · BACKUP RING		
	R4261360	3	· · SEAL KIT		
	R4261667	3	· · SPRING		
2	R4016785	1	· ADAPTER, 1/4" MP X #4 MJ		
3	R4043024	1	· TEE, #6 MJ X 1/4" MP X #6 MJ		
4	R4002438	1	· ELBOW, 1/4" MP X 90 deg. X #6 MJ		
5	R4002422	2	· ADAPTER, 3/4" MP X #12 MJ		
6	R4244753	2	· ADAPTER, 3/4" MP X #12 FJ - SWIVEL		
7	R4015753	6	· ADAPTER, 1/2" MP X #12 MJ		
8	R4002441	2	· ELBOW, 3/4" MP X 90 deg. X #12 MJ		
9	R4032316	2	· TEE, 1/2" FP		
10	R4032313	2	· NIPPLE, PIPE - 1/2", HEX		
11	R4013788	2	· BUSHING, 1/4" FP X 1/2" MP		
12	R4255489	2	· TRANSMITTER, PRESSURE - 0-200 PSI		
		REF	DRAWING, REAR RELAY VALVE ASSEMBLY (R427347303)		6/21/18

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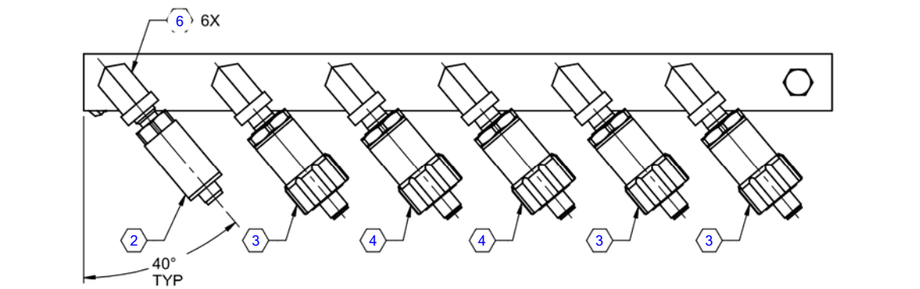
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

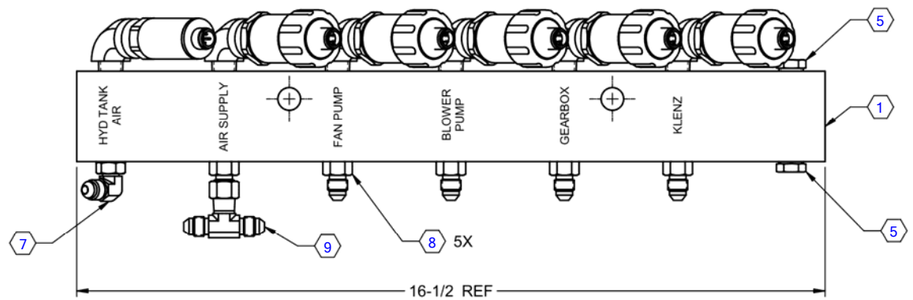
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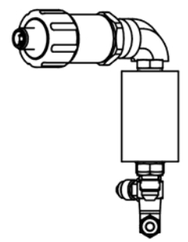
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REAR FRAME TRANSDUCER ASSEMBLY

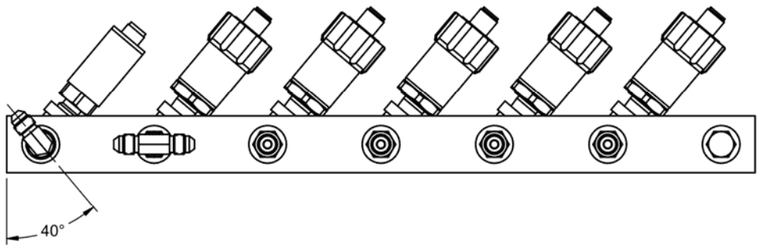
REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASED	NL12-2011	2-23-12	RRM	AY	AY
	01	ADDED ITEM 9 (TEE)	NL12-1591	7-16-12	JFM	AY	AY







01



01

ITEM	PART NO.	QTY	DESCRIPTION
9	4063332	1	FTG HYD TEE 4MJ 4MJ 4FJ
8	4014580	5	FTG HYD 0 4 MJ 4 MO
7	4014581	1	FTG HYD 90 4 MJ 4 MO
6	4031400	6	PIPE HYD ST ELB 90 4 MP 4 FP
5	4013779	2	PIPE PLUG 1/4 NPT HEX HEAD
4	4255491	2	TRANSMITTER PRESS 0-5000 PSIG
3	4255489	3	TRANSMITTER PRESS 0-200 PSIG
2	4265196	1	XMTR PRESS 0-15 PSI 4-20 MA
1	4241115	1	MANIFOLD HOUSING

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- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

USED ON: 426-7493

		DATE
DWN	rmiller	2-23-12
CHK	A.YAO	2-23-12
ENGR	A.YAO	2-23-12
PROD ENGR	A.YAO	2-23-12
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY TRANSDUCER REAR FRAME

SIZE C | D NT SCALE | DWG NO. 4275726 | REV 01

SCALE 1/2 | EST WT 13.2 lbm | SHEET 1 OF 1

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REAR FRAME TRANSDUCER ASSEMBLY

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REAR FRAME TRANSDUCER ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4275726		REAR FRAME TRANSDUCER ASSEMBLY		
1	R4241115	1	· MANIFOLD HOUSING		
2	R4265196	1	· TRANSMITTER, PRESSURE - 0-15 PSI		
3	R4255489	3	· TRANSMITTER, PRESSURE - 0-200 PSI		
4	R4255491	2	· TRANSMITTER, PRESSURE - 0-5000 PSI		
5	R4013779	2	· PLUG, PIPE - 1/4", HEX HD.		
6	R4031400	6	· ELBOW, 1/4" FP X 90 deg. X 1/4" MP		
7	R4014581	1	· ELBOW, #4 MO X 90 deg. X #4 MJ - ADJ.		
8	R4014580	5	· ADAPTER, #4 MO X #4 MJ		
9	R4063332	1	· TEE, #4 MJ X #4 MJ X #4 FJ - SWIVEL		
			DRAWING, REAR FRAME TRANSDUCER ASSEMBLY (R427572601)		

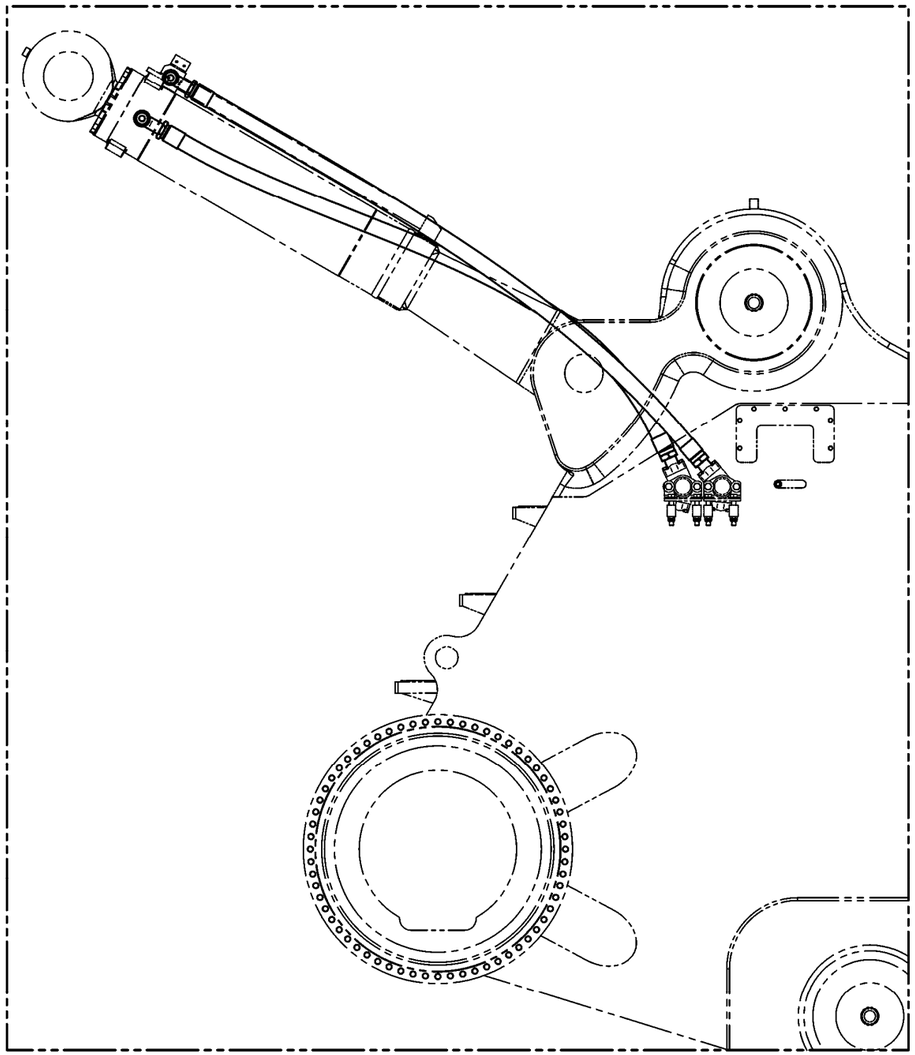
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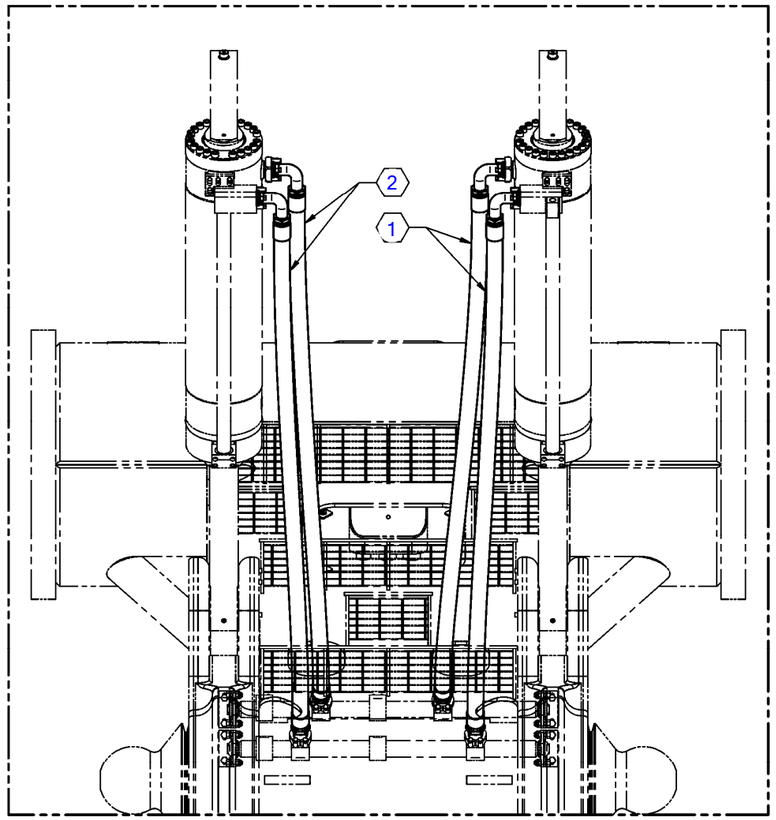
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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BUCKET CYLINDER HOSE GROUP - HIGH LIFT





TOP VIEW
ROTATED 90vCW

ITEM	PART NO.	QTY	DESCRIPTION
2	4287425	2	HSEM 5000 32 121 0F 90FSGARL4
1	4287424	2	HSEM 5000 32 121 0F 90FSGARL2

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- TOLERANCES ON: ANGLES ±1° ; FRACTIONS ±1/16 ; XX DECIMAL ±.03 ; XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL

THIRD ANGLE PROJECTION

USED ON: 428-6891

		DATE
DWN	twillis	2-1-16
CHK	JBD	2-1-16
ENGR		
PROD ENGR	JBD	2-1-16
PROJ APPROVAL		
MATL	-	

LeTourneau

GP HSEM BKT CYL HL L1350 G2

SIZE C | DO NOT SCALE | DWG NO. 4287426 | REV 01

SCALE 1/16 | EST WT 130.6 lbm | SHEET 1 OF 1

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BUCKET CYLINDER HOSE GROUP - HIGH LIFT

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BUCKET CYLINDER HOSE GROUP - HIGH LIFT

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4287426		BUCKET CYLINDER HOSE GROUP, MDG - HIGH LIFT		5/18/17
1	R4287424	2	· HOSE ASSEMBLY, #32 X 121", MDG		
2	R4287425	2	· HOSE ASSEMBLY, #32 X 121", MDG		
		REF	DRAWING, BUCKET CYLINDER HOSE GROUP, MDG - HIGH LIFT (R428742601)		5/18/17

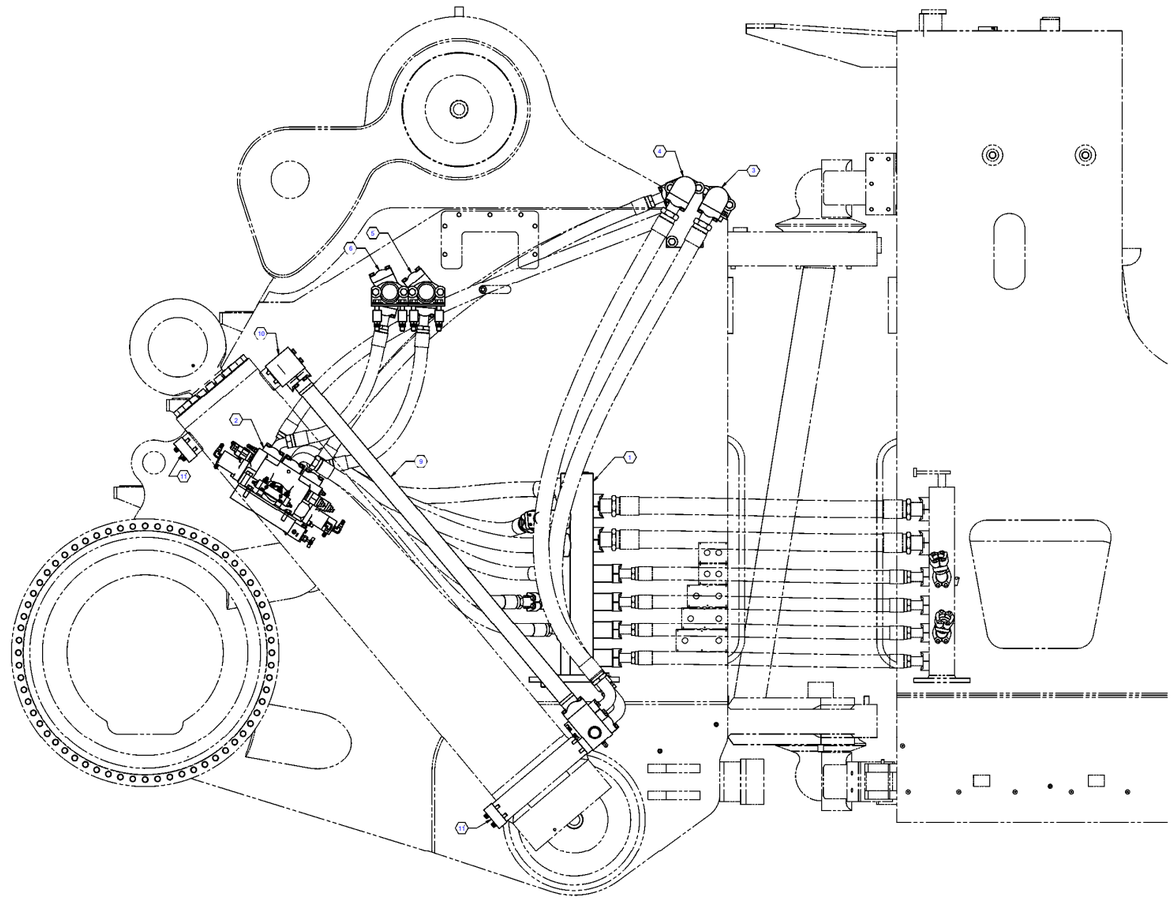
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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FRONT FRAME MAIN HARDWARE GROUP



ITEM	PART NO.	QTY	DESCRIPTION
36	4186402	2	FLANGE HALF 2.00 FORGED C61
35	4071205	1	O-RING, 2 SAE SPLIT FLANGE
34	4186401	2	FLANGE HALF 1.50 FORGED C61
33	4068368	1	O-RING, 1-1/2 SAE SPLIT FLANGE
32	4288517	1	STR ELB SAE 2 90° C61 80
31	4255270	1	STR ELB-SAE-1 1/2-60°-C61-160
30	0827222	16	BOLT HX .500 2.000 NC G8
29	4001875	16	CSCR FH .500 2.750 NC G8
28	4009760	8	BOLT HX .500 6.000 NC G8
27	4210349	40	WASHER FLAT .531 .750 .125
26	0021629	4	BOLT HX .625 1.750 NC G8
25	4223105	4	WASHER .625 HARD CONICAL
24	4009623	8	BOLT HX .750 1.50 NC G8
23	0021644	4	BOLT HX .750 2.000 NC
22	4009525	16	BOLT HX .750 2.250 NC G8
21	0021656	8	BOLT HX .750 5.000 NC G8
20	4016018	24	NUT LOCK NYL INS .750 NC
19	4211004	8	SPACER RD .812 1.500 2.000
18	4223106	8	WASHER .750 HARD CONICAL
17	4211003	28	WASHER FLAT .750 2.00 .25 SP
16	4222106	4	FLANGE HALF 2-1/2 FORGED C61
15	4116301	10	O-RING 2-1/2 SAE SPLIT FLANGE
14	4016121	8	BACKUP RING 2.734 3.012 .050
13	4238155	2	PLATE MOUNT
12	4109010	6	ANGLE MOUNT
11	4256459	4	COVER - 2 1/2 FLANGE
10	4163826	2	ELBOW - CYLINDER ROD
9	4237956	2	STR PIPE HOIST CYL ROD
8	4273461	1	ASSY VALVE FLOAT SINGLE RH
7	4273462	1	ASSY VALVE FLOAT SINGLE LH
6	4278030	1	ASSY BUCKET CROSSOVER ROD
5	4278029	1	ASSY BUCKET CROSSOVER BASE
4	4278028	1	ASSY HOIST CROSSOVER ROD
3	4278027	1	ASSY HOIST CROSSOVER BASE
2	4278026	1	ASSY MAIN VALVES L1350 G2
1	4252628	1	ASSY PRESS & RTRN MNFLD FRONT FR

REF 428-8369 GP HOSE HYD MAIN FF L1250 G3 **FOR HOSE INSTALLATION**

REF 428-8370 GP HSEM HYD MAIN FF L1250 G3 **FOR MDG-41 HOSE INSTALLATION**

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1060.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
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- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO

		DATE
DWN	rhyatt	9-30-16
CHK	ER	9-30-16
ENGR	ER	9-30-16
PROD ENGR		
PROJ APPROVAL	JBD	9-30-16
MATL		

JOYGLOBAL

GP HDW HYD MAIN FF L1250 G3

SIZE E | DO NOT SCALE | DWG NO. 4288368 | REV 01

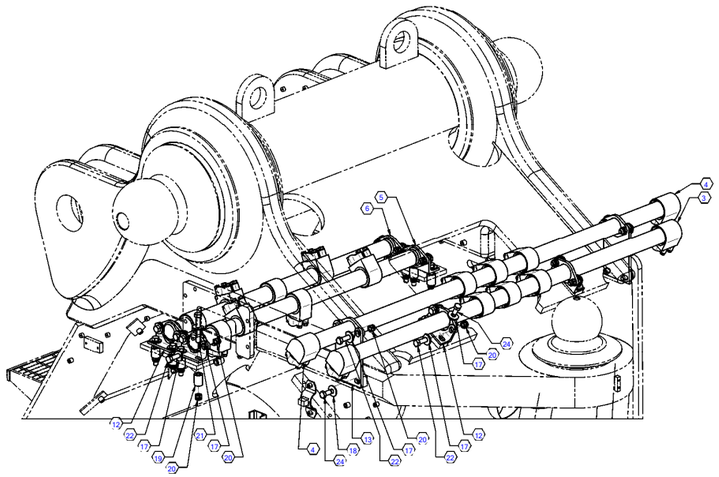
SCALE 1:8 | WT KT 2238.2 lbm | SHEET 1 OF 2

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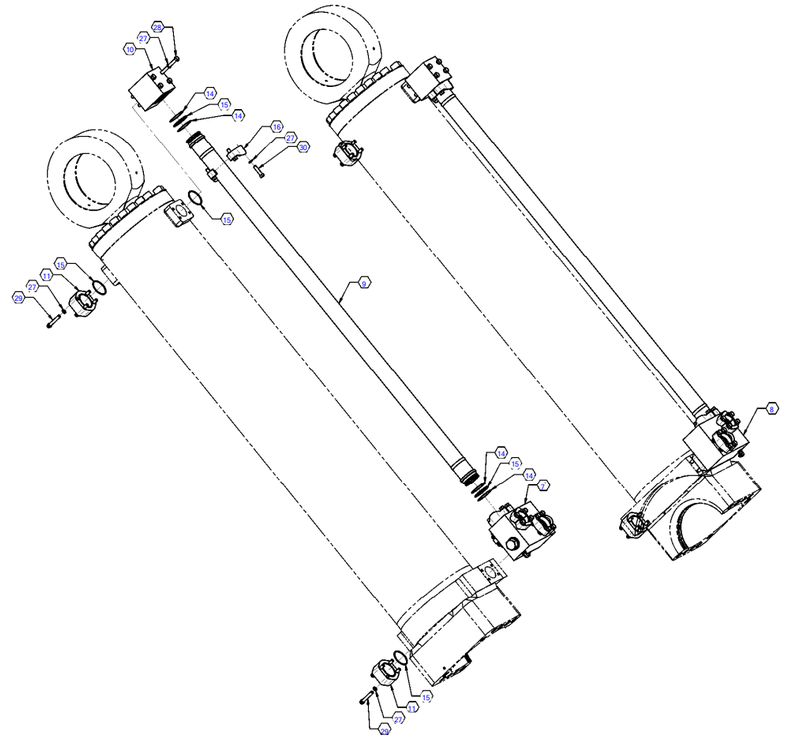
FRONT FRAME MAIN HARDWARE GROUP

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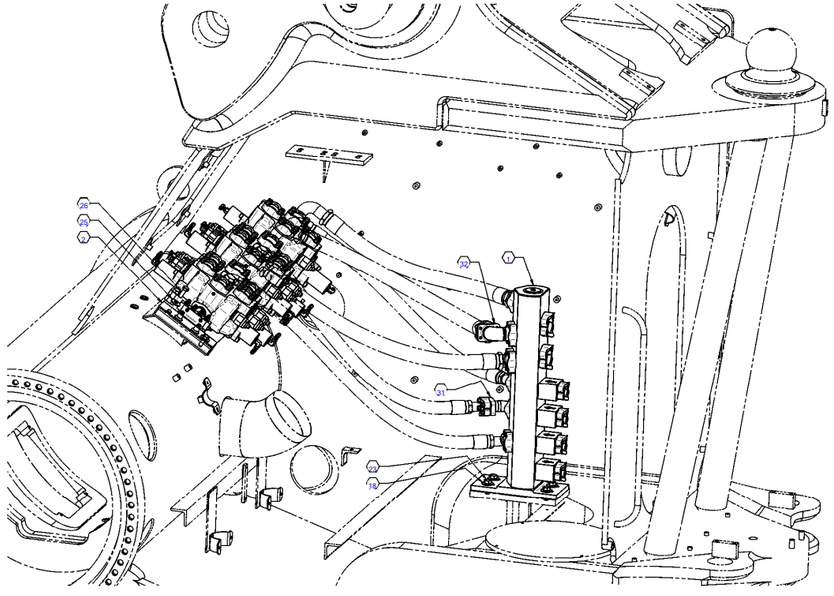
FRONT FRAME MAIN HARDWARE GROUP



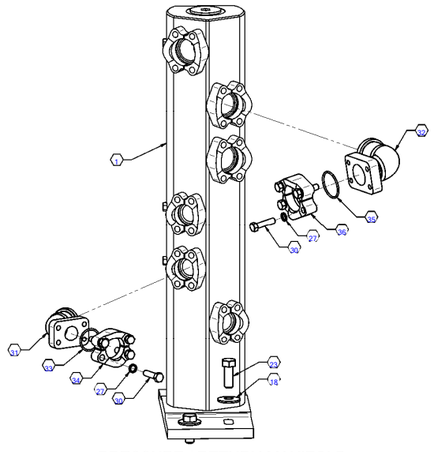
CROSSOVER TUBES



HOIST CYLINDERS



MAIN VALVES & PRESSURE / RETURN MANIFOLD



PRESSURE / RETURN MANIFOLD
SCALE 1:4

QP HDW HYD MAIN FF L1250 G3		SIZE E	DO NOT SCALE	DWG NO. 4288368	REV 01
drawn rhyatt					
FILED		SCALE 1:8	WT KT 2236.2 lbm	SHEET 2 OF 2	

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FRONT FRAME MAIN HARDWARE GROUP

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FRONT FRAME MAIN HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288368		FRONT FRAME MAIN HARDWARE GROUP		
1	R4252628	1	· FRONT FRAME PRESSURE AND RETURN MANIFOLD GROUP (PAGE 8.59-8.59A)		
2	R4278026	1	· MAIN VALVES ASSEMBLY (PAGE 8.25-8.25A)		
3	R4278027	1	· CROSSOVER PIPE ASSEMBLY - HOIST BASE (PAGE 8.63-8.63A)		
4	R4278028	1	· CROSSOVER PIPE ASSEMBLY - HOIST ROD (PAGE 8.64-8.64A)		
5	R4278029	1	· CROSSOVER PIPE ASSEMBLY - BUCKET BASE (PAGE 8.65-8.65A)		
6	R4278030	1	· CROSSOVER PIPE ASSEMBLY - BUCKET ROD (PAGE 8.66-8.66A)		
7	R4273462	1	· SINGLE FLOAT VALVE ASSEMBLY - LEFT HAND (PAGE 8.62-8.62A)		
8	R4273461	1	· SINGLE FLOAT VALVE ASSEMBLY - RIGHT HAND (PAGE 8.61-8.61A)		
9	R4237956	2	· PIPE STRUCTURE, HOIST CYLINDER ROD		
10	R4163826	2	· ELBOW, CYLINDER ROD		
11	R4256459	4	· CAP, SF - 2-1/2"		
12	R4103010	6	· MOUNT BRACKET, ANGLE		
13	R4238155	2	· MOUNT BRACKET, CROSSOVER TUBE		
14	R4016121	8	· RING, BACK-UP		
15	R4116301	10	· O-RING, 2-3/4" I.D. - POLYURETHANE		
16	R4222106	4	· FLANGE HALF, 2-1/2"		
17	R4211003	28	· FLATWASHER, 3/4" I.D. X 2" O.D. X 1/4" - CUT, HARDENED		
18	R4223106	8	· FLATWASHER, 3/4" I.D. X 2" O.D. X 3/16" - CONICAL		
19	R4211004	8	· SPACER, 13/16" I.D. X 1-1/2" O.D. X 2"		
20	R4016018	24	· LOCKNUT, 3/4"-10 - NYLON		
21	R0021656	8	· BOLT, 3/4"-10 X 5"		
22	R4009525	16	· BOLT, 3/4"-10 X 2-1/4"		
23	R0021644	4	· BOLT, 3/4"-10 X 2"		
24	R4009523	8	· BOLT, 3/4"-10 X 1-1/2"		
25	R4223105	4	· FLATWASHER, 5/8" I.D. X 1-3/4" O.D. X 1/8" - CONICAL		
26	R0021629	4	· BOLT, 5/8"-11 X 1-3/4"		
27	R4210349	40	· FLATWASHER, 1/2" - HARDENED		
28	R4009760	8	· BOLT, 1/2"-13 X 6"		
29	R4001875	16	· CAPSCREW, 1/2"-13 X 2-3/4"		
30	R0827222	16	· BOLT, 1/2"-13 X 2"		
31	R4255270	1	· ELBOW STRUCTURE, 1-1/2" SF X 60 deg.		
32	R4288517	1	· ELBOW STRUCTURE, 2" SF X 90 deg.		
33	R4068358	1	· O-RING, 1-7/8" I.D. - POLYURETHANE		
34	R4186401	2	· FLANGE HALF, 1-1/2"		
35	R4071255	1	· O-RING, 2-1/4" I.D. - POLYURETHANE		
36	R4186402	2	· FLANGE HALF, 2"		
		REF	DRAWING, FRONT FRAME MAIN HARDWARE GROUP (R428836801)		

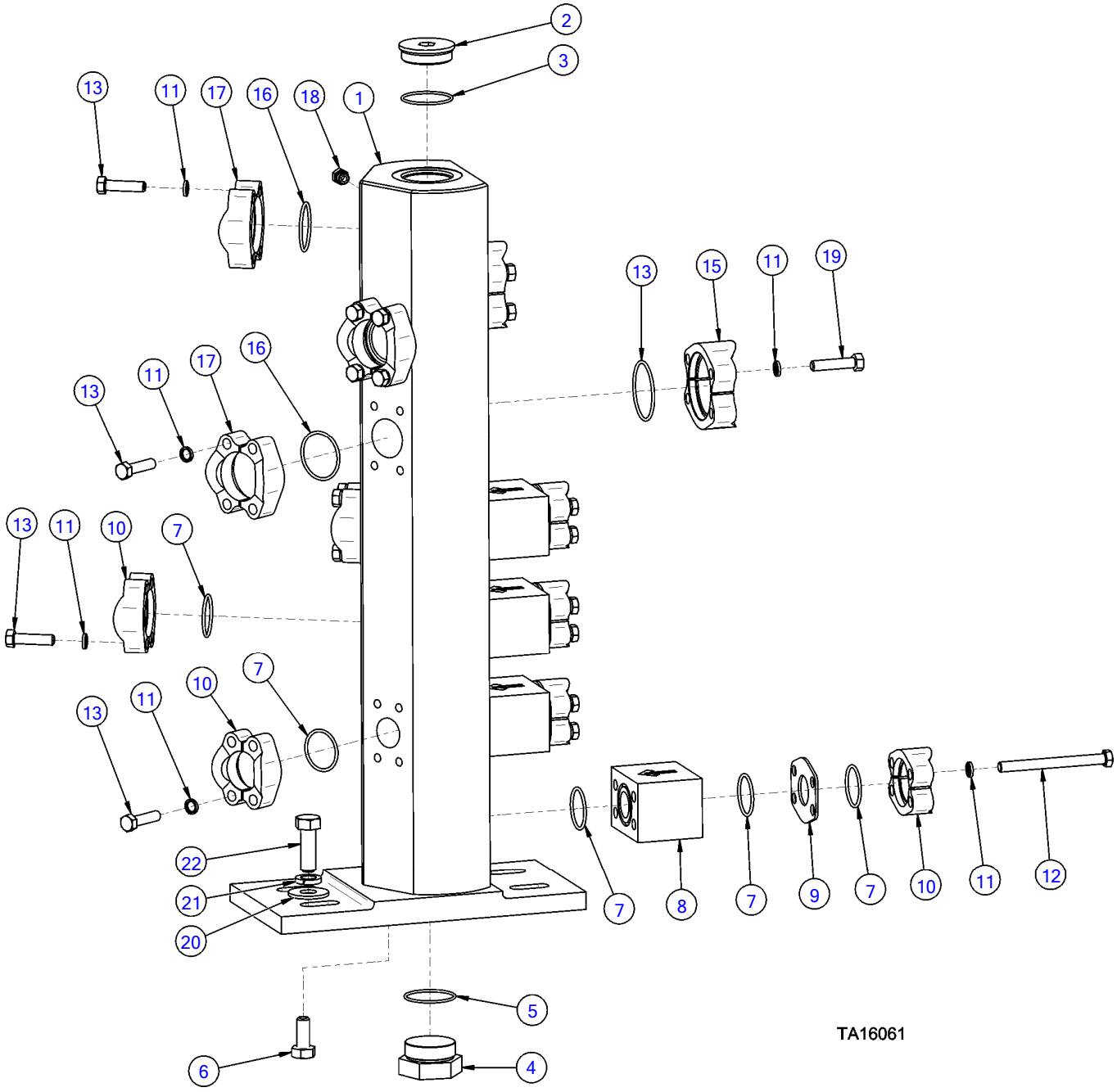
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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FRONT FRAME PRESSURE AND RETURN MANIFOLD GROUP



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FRONT FRAME PRESSURE AND RETURN MANIFOLD GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4252628		FRONT FRAME PRESSURE AND RETURN MANIFOLD GROUP		9/19/19
1	R4281664	1	· MANIFOLD BLOCK STRUCTURE - FRONT		
2	R4241329	1	· · PLUG, #32 MO - HEX CSK.		9/19/19
3	R4002288	1	· · O-RING, #32 - BUNA N		9/19/19
4	R4297637	1	· · PLUG, #32 MO		9/19/19
5	R4297638	1	· · · O-RING, #32 - POLYURETHANE		9/19/19
6	R0025762	4	· · BOLT, 5/8"-11 X 1-1/2"		9/19/19
7	R4068358	15	· O-RING, 1-7/8" I.D. - POLYURETHANE		
8	R4133249	4	· VALVE, CHECK - 1-1/2" SF		
9	R4143664	4	· PLATE, CONNECTOR - 1-1/2"		
10	R4186401	14	· FLANGE HALF, 1-1/2"		
11	R4210349	48	· FLATWASHER, 1/2" - HARDENED		
12	R4009759	16	· BOLT, 1/2"-13 X 5-1/2"		
13	R0827222	24	· BOLT, 1/2"-13 X 2"		9/19/19
14	R4116301	2	· O-RING, 2-3/4" I.D. - POLYURETHANE		
15	R4222106	4	· FLANGE HALF, 2-1/2"		
16	R4071255	3	· O-RING, 2-1/4" I.D. - POLYURETHANE		
17	R4186402	6	· FLANGE HALF, 2"		
18	R4030061	3	· PLUG, #6 MO		
19	R0808488	8	· BOLT, 1/2"-13 X 2-1/4"		
20	R0735509	REF	· FLATWASHER, 3/4" I.D. X 2" X 1/8"	4	9/19/19
21	R0131167	REF	· LOCKWASHER, 3/4" - HEAVY	4	9/19/19
22	R4009525	REF	· BOLT, 3/4"-10 X 2-1/4"	4	9/19/19
			DRAWING, FRONT FRAME PRESSURE AND RETURN MANIFOLD GROUP (R425262805)		9/19/19

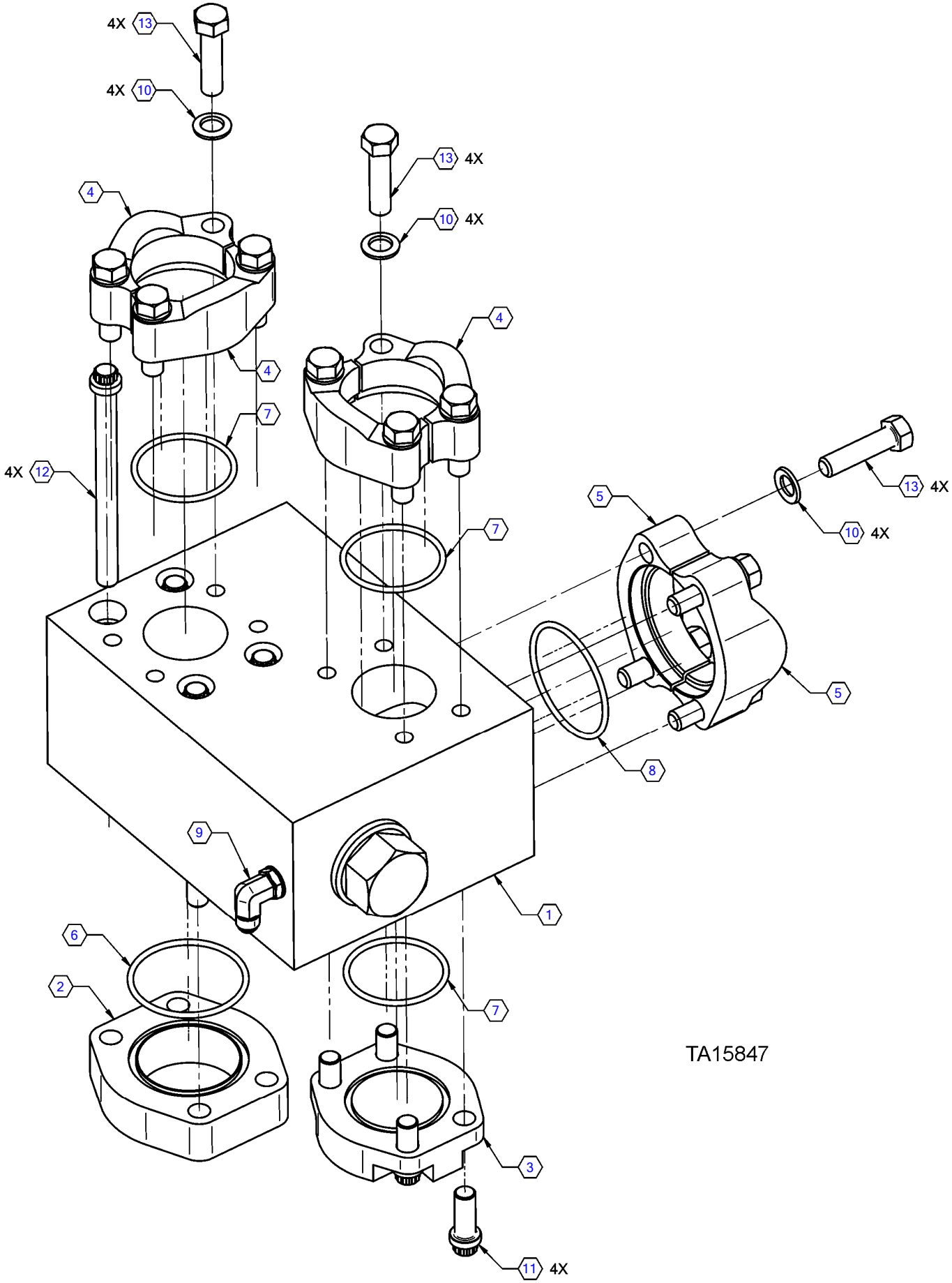
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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SINGLE FLOAT VALVE ASSEMBLY - RIGHT HAND



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SINGLE FLOAT VALVE ASSEMBLY - RIGHT HAND

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SINGLE FLOAT VALVE ASSEMBLY - RIGHT HAND

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273461		SINGLE FLOAT VALVE ASSEMBLY - RIGHT HAND		
1	R4244894	1	· SINGLE FLOAT VALVE (PAGE 8.61-8.61A)		
2	R4172157	1	· PLATE, CONNECTOR - 2-1/2"		
3	R4163959	1	· PLUG, SF - 2"		
4	R4186402	4	· FLANGE HALF, 2"		
5	R4222106	2	· FLANGE HALF, 2-1/2"		
6	R4154858	2	· O-RING, 2-5/8" I.D. - POLYURETHANE		
7	R4071255	3	· O-RING, 2-1/4" I.D. - POLYURETHANE		
8	R4116301	1	· O-RING, 2-3/4" I.D. - POLYURETHANE		
9	R4002470	1	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
10	R4210349	12	· FLATWASHER, 1/2" - HARDENED		
11	R4001869	4	· CAPSCREW, 1/2"-13 X 1-1/4"		
12	R4001883	4	· CAPSCREW, 1/2"-13 X 6"		
13	R0827222	12	· BOLT, 1/2"-13 X 2"		
			DRAWING, SINGLE FLOAT VALVE ASSEMBLY - RIGHT HAND (R427346101)		

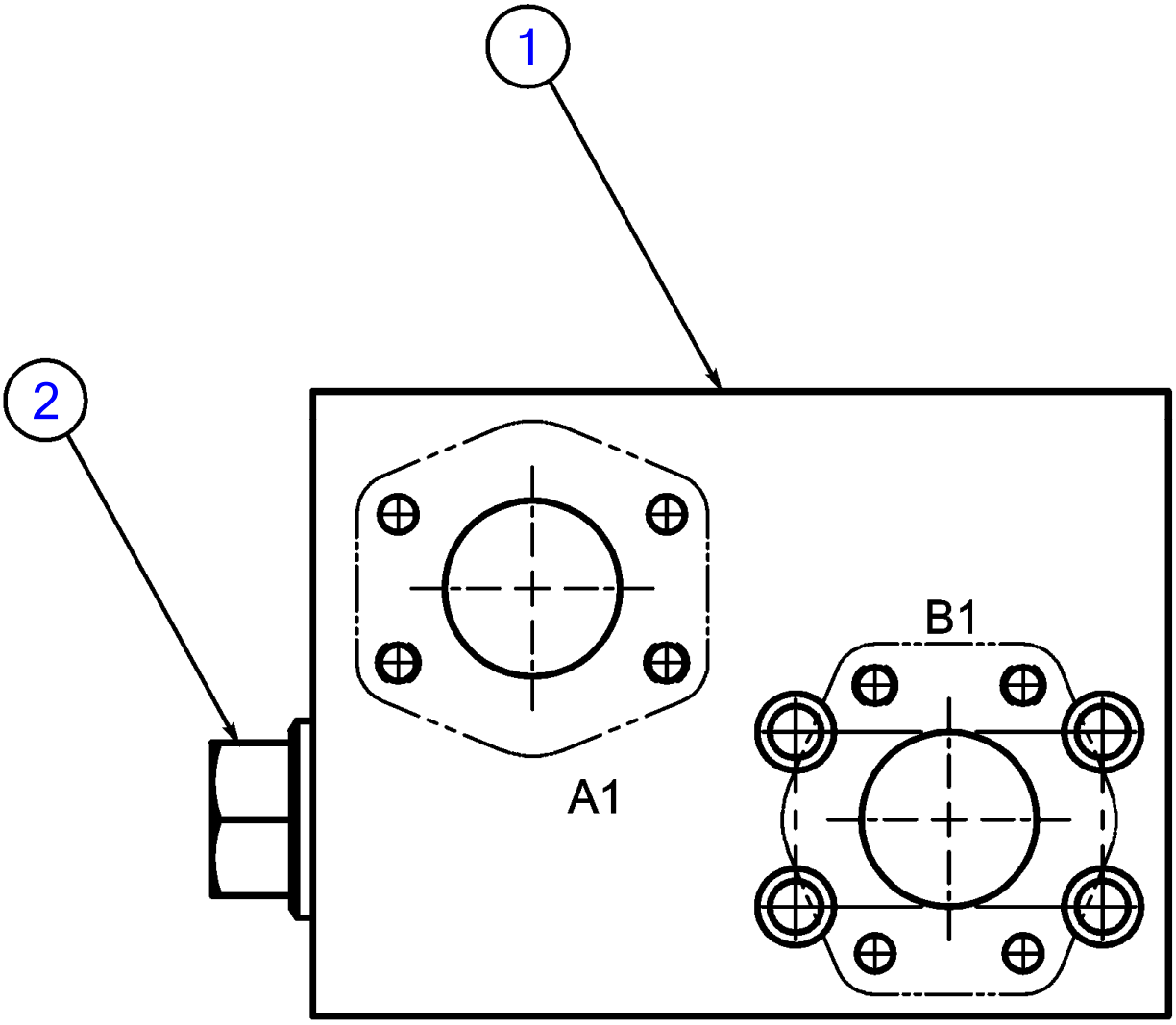
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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SINGLE FLOAT VALVE



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SINGLE FLOAT VALVE

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SINGLE FLOAT VALVE

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4244894		SINGLE FLOAT VALVE		6/21/18
1	R4293151	1	· MANIFOLD, FLOAT VALVE		6/21/18
2	R4163658	1	· CARTRIDGE, LOGIC ELEMENT - N.C.		6/21/18
	R4163659	1	SEAL KIT		
			DRAWING, SINGLE FLOAT VALVE (R424489406)		

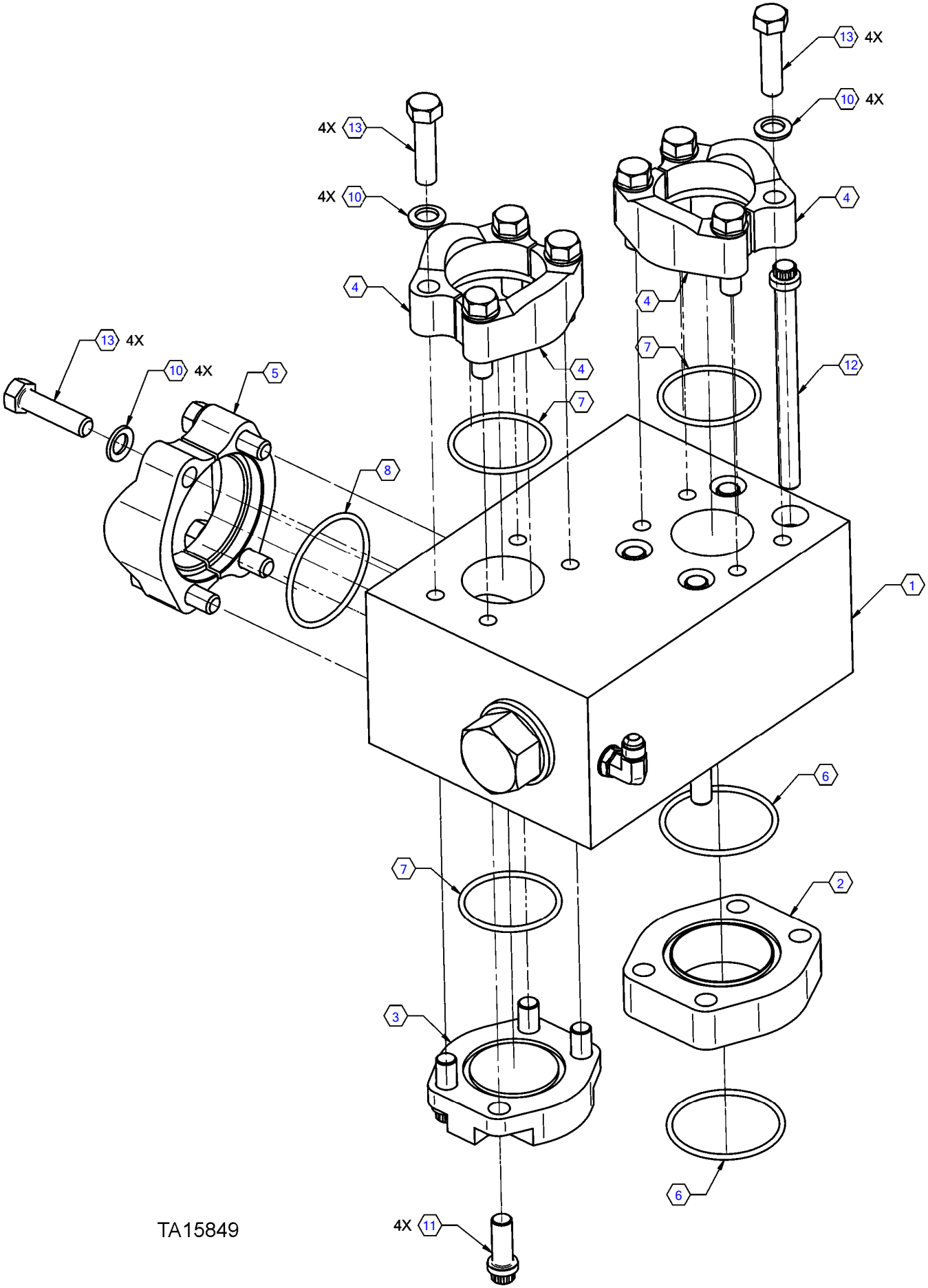
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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SINGLE FLOAT VALVE ASSEMBLY - LEFT HAND



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SINGLE FLOAT VALVE ASSEMBLY - LEFT HAND

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SINGLE FLOAT VALVE ASSEMBLY - LEFT HAND

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273462		SINGLE FLOAT VALVE ASSEMBLY - LEFT HAND		
1	R4244894	1	· SINGLE FLOAT VALVE (PAGE 8.61-8.61A)		
2	R4172157	1	· PLATE, CONNECTOR - 2-1/2"		
3	R4163959	1	· PLUG, SF - 2"		
4	R4186402	4	· FLANGE HALF, 2"		
5	R4222106	2	· FLANGE HALF, 2-1/2"		
6	R4154858	2	· O-RING, 2-5/8" I.D. - POLYURETHANE		
7	R4071255	3	· O-RING, 2-1/4" I.D. - POLYURETHANE		
8	R4116301	1	· O-RING, 2-3/4" I.D. - POLYURETHANE		
9	R4002470	1	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
10	R4210349	12	· FLATWASHER, 1/2" - HARDENED		
11	R4001869	4	· CAPSCREW, 1/2"-13 X 1-1/4"		
12	R4001883	4	· CAPSCREW, 1/2"-13 X 6"		
13	R0827222	12	· BOLT, 1/2"-13 X 2"		
			DRAWING, SINGLE FLOAT VALVE ASSEMBLY - LEFT HAND (R427346201)		

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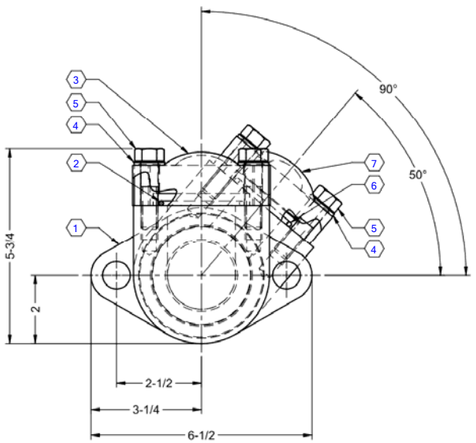
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

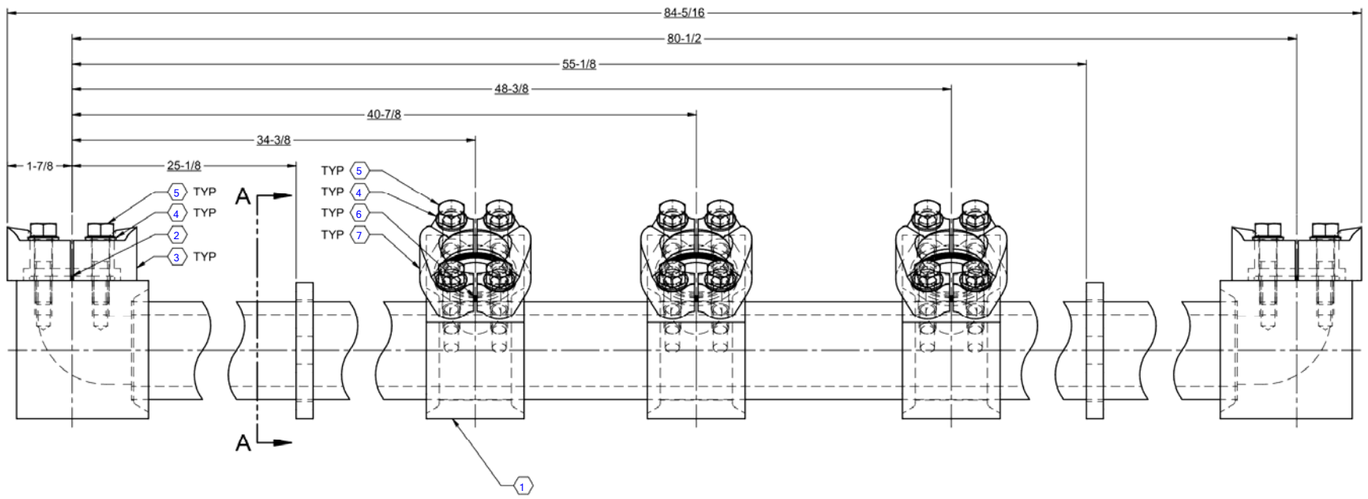
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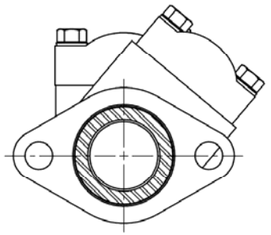
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CROSSOVER PIPE ASSEMBLY - HOIST BASE

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASE	NL12-1886	11-12	RAH	JBD	JBD







SECTION A-A

NOTE:

ALL DIMENSIONS ARE REFERENCE

ITEM	PART NO.	QTY	DESCRIPTION
7	4186401	6	FLANGE HALF FORGED 1.50 6000
6	4068358	3	O-RING, 1-1/2 SAE SPLIT FLANGE
5	0827222	20	BOLT HX .500 2.000 NC G8
4	4210349	20	WASHER CON .531 .915 .089 HRD
3	4186402	4	FLANGE HALF 2.00 FORGED C61
2	4071255	2	O-RING, 2 SAE SPLIT FLANGE
1	4241068	1	STR CROSSOVER PIPE HOIST BASE

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- TOLERANCES ON: ANGLES ±1° | FRACTIONS ±1/16 | .XX DECIMAL ±.03 | .XXX DECIMAL ±.015
- MACHINED CORNERS .164 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	rhyatt	10-05-12
CHK	JBD	11-12-12
ENGR	JBD	11-12-12
PROD ENGR		
PROJ APPROVAL		
MATL		

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ASSY HOIST CROSSOVER BASE

SIZE D | DWG NO. 4278027 | REV 00

SCALE 1/2 | EST WT 124.0 lbm | SHEET 1 OF 1

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CROSSOVER PIPE ASSEMBLY - HOIST BASE

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CROSSOVER PIPE ASSEMBLY - HOIST BASE

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4278027		CROSSOVER PIPE ASSEMBLY - HOIST BASE		
1	R4241068	1	· PIPE STRUCTURE, CROSSOVER - HOIST BASE		
2	R4071255	2	· O-RING, 2-1/4" I.D. - POLYURETHANE		
3	R4186402	4	· FLANGE HALF, 2"		
4	R4210349	20	· FLATWASHER, 1/2" - HARDENED		
5	R0827222	20	· BOLT, 1/2"-13 X 2"		
6	R4068358	3	· O-RING, 1-7/8" I.D. - POLYURETHANE		
7	R4186401	6	· FLANGE HALF, 1-1/2"		
			DRAWING, CROSSOVER PIPE ASSEMBLY - HOIST BASE (R427802700)		

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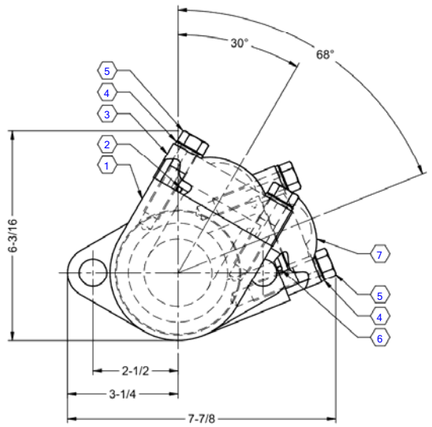
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

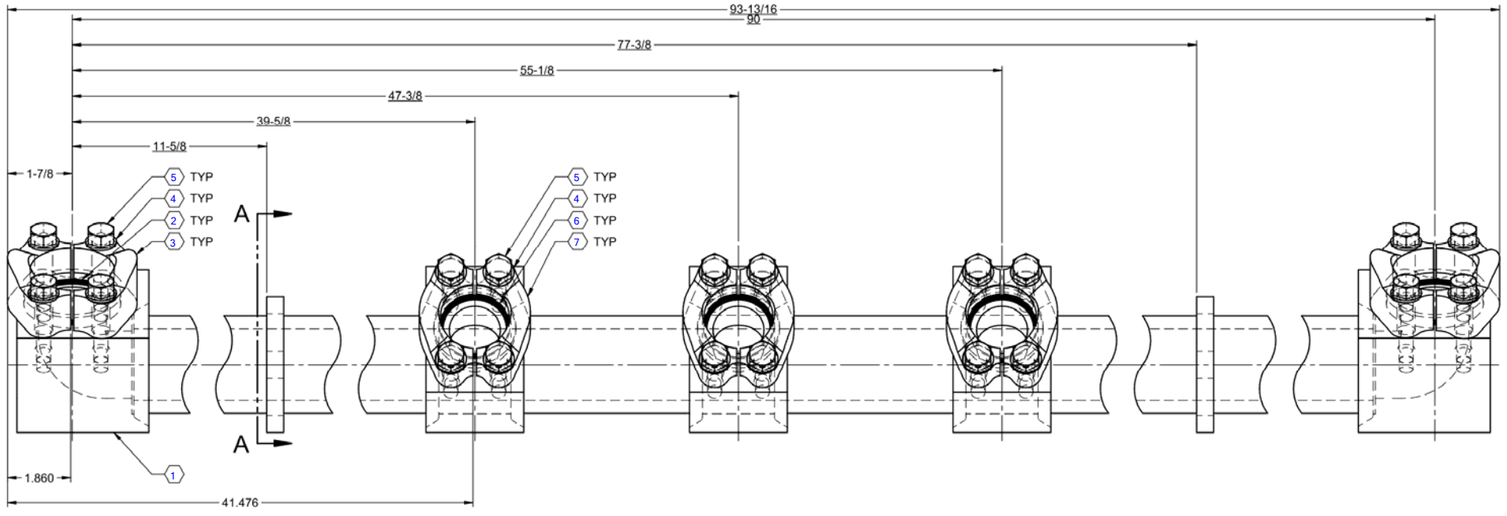
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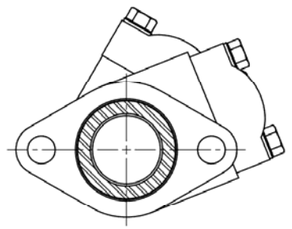
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CROSSOVER PIPE ASSEMBLY - HOIST ROD

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASE	NL12-1886	11-12	RAH	JBD	JBD







SECTION A-A

NOTE:

ALL DIMENSIONS ARE REFERENCE

ITEM	PART NO.	QTY	DESCRIPTION
7	4186401	6	FLANGE HALF FORGED 1.50 6000
6	4068358	3	O-RING, 1-1/2 SAE SPLIT FLANGE
5	0827222	20	BOLT HX .500 2.000 NC G8
4	4210349	20	WASHER CON .531 .915 .089 HRD
3	4186402	4	FLANGE HALF 2.00 FORGED C61
2	4071255	2	O-RING, 2 SAE SPLIT FLANGE
1	4241069	1	STR CROSSOVER PIPE HOIST ROD

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- TOLERANCES ON: ANGLES ±1° | FRACTIONS ±1/16 | .XX DECIMAL ±.03 | .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	rhyatt	10-05-12
CHK	JBD	11-12-12
ENGR	JBD	11-12-12
PROD ENGR		
PROJ APPROVAL		
MATL		

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ASSY HOIST CROSSOVER ROD

SIZE D | DO OT SCAE | DWG NO. 4278028 | REV 00

SCALE 1/2 | EST WT 131.8 lbm | SHEET 1 OF 1

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CROSSOVER PIPE ASSEMBLY - HOIST ROD

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CROSSOVER PIPE ASSEMBLY - HOIST ROD

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4278028		CROSSOVER PIPE ASSEMBLY - HOIST ROD		
1	R4241079	1	· PIPE STRUCTURE, CROSSOVER - HOIST ROD		
2	R4071255	2	· O-RING, 2-1/4" I.D. - POLYURETHANE		
3	R4186402	4	· FLANGE HALF, 2"		
4	R4210349	20	· FLATWASHER, 1/2" - HARDENED		
5	R0827222	20	· BOLT, 1/2"-13 X 2"		
6	R4068358	3	· O-RING, 1-7/8" I.D. - POLYURETHANE		
7	R4186401	6	· FLANGE HALF, 1-1/2"		
			DRAWING, CROSSOVER PIPE ASSEMBLY - HOIST BASE (R427802800)		

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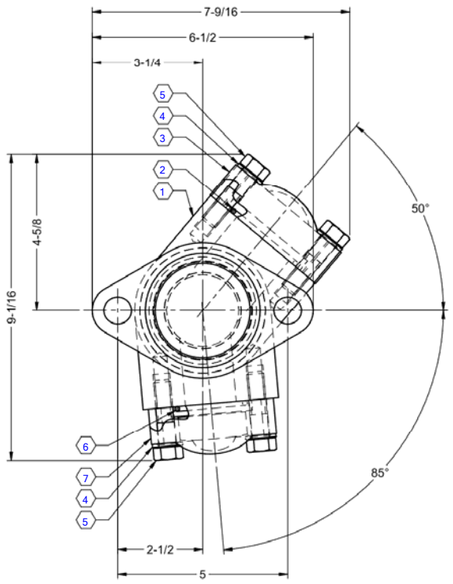
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

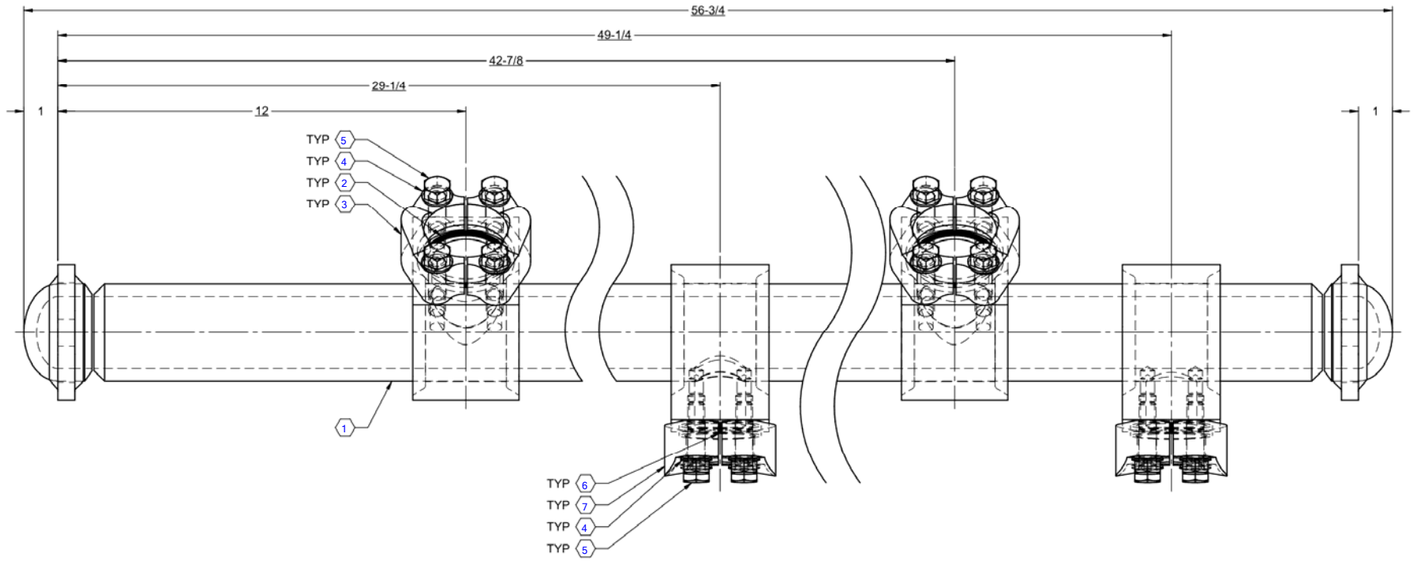
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CROSSOVER PIPE ASSEMBLY - BUCKET BASE

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASE	NL12-1886	11-12	RAH	JBD	JBD





NOTE:

ALL DIMENSIONS ARE REFERENCE

ITEM	PART NO.	QTY	DESCRIPTION
7	4186401	4	FLANGE HALF FORGED 1.50 6000
6	4068358	2	O-RING, 1-1/2 SAE SPLIT FLANGE
5	0827222	16	BOLT HX .500 2.000 NC G8
4	4210349	16	WASHER CON .531 .915 .089 HRD
3	4186402	4	FLANGE HALF 2.00 FORGED C61
2	4071255	2	O-RING, 2 SAE SPLIT FLANGE
1	4241070	1	STR CROSSOVER PIPE BUCKET BASE

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- TOLERANCES ON: ANGLES ±1° | FRACTIONS ±1/16 | .XX DECIMAL ±.03 | .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	rhyatt	10-08-12
CHK	JBD	11-12-12
ENGR	JBD	11-12-12
PROD ENGR		
PROJ APPROVAL		
MATL		

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ASSY BUCKET CROSSOVER BASE

SIZE D | DWG NO. 4278029 | REV 00

SCALE 1/2 | EST WT 91.8 lbm | SHEET 1 OF 1

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CROSSOVER PIPE ASSEMBLY - BUCKET BASE

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CROSSOVER PIPE ASSEMBLY - BUCKET BASE

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4278029		CROSSOVER PIPE ASSEMBLY - BUCKET BASE		
1	R4241070	1	· PIPE ASSEMBLY, CROSSOVER - BUCKET BASE		
2	R4071255	2	· O-RING, 2-1/4" I.D. - POLYURETHANE		
3	R4186402	4	· FLANGE HALF, 2"		
4	R4210349	16	· FLATWASHER, 1/2" - HARDENED		
5	R0827222	16	· BOLT, 1/2"-13 X 2"		
6	R4068358	2	· O-RING, 1-7/8" I.D. - POLYURETHANE		
7	R4186401	4	· FLANGE HALF, 1-1/2"		
			DRAWING, CROSSOVER PIPE ASSEMBLY - BUCKET BASE (R427802900)		

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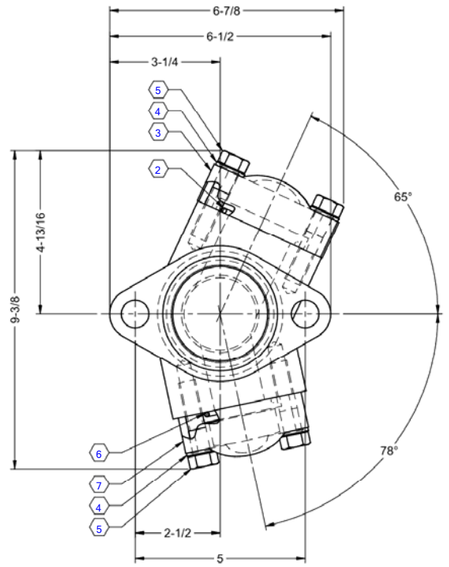
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

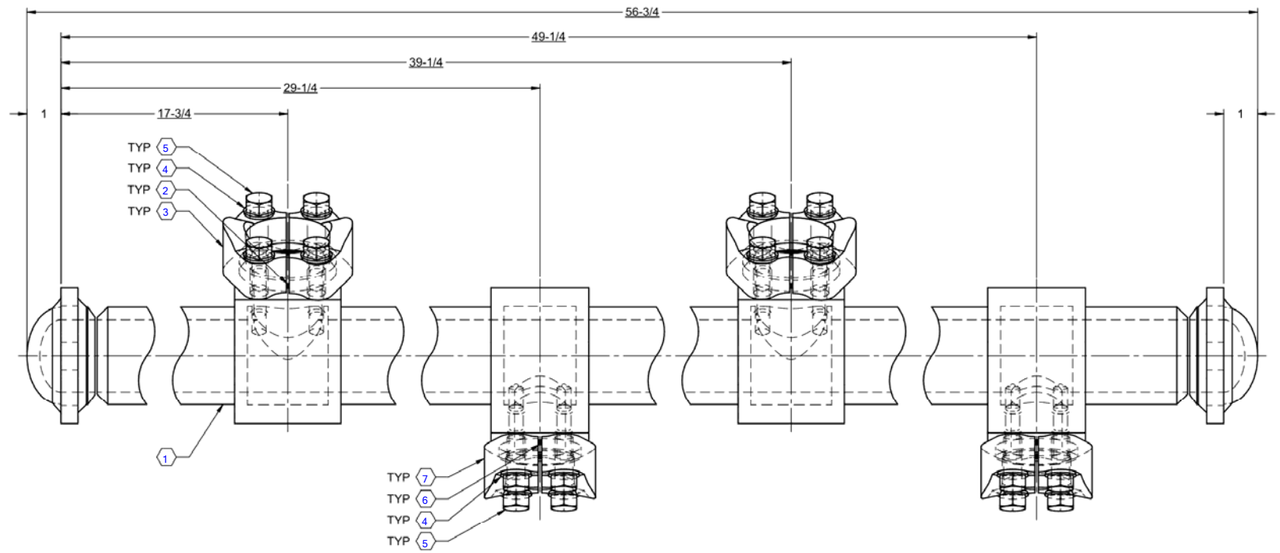
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CROSSOVER PIPE ASSEMBLY - BUCKET ROD

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASE	NL12-1886	11-12	RAH	JBD	JBD





NOTE:

ALL DIMENSIONS ARE REFERENCE

ITEM	PART NO.	QTY	DESCRIPTION
7	4186401	4	FLANGE HALF FORGED 1.50 6000
6	4068358	2	O-RING, 1-1/2 SAE SPLIT FLANGE
5	0827222	16	BOLT HX .500 2.000 NC G8
4	4210349	16	WASHER CON .531 .915 .089 HRD
3	4186402	4	FLANGE HALF 2.00 FORGED C61
2	4071255	2	O-RING, 2 SAE SPLIT FLANGE
1	4241071	1	STR CROSSOVER PIPE BUCKET ROD

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° / FRACTIONS ±1/16 / .XX DECIMAL ±.03 / .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	rhyatt	10-08-12
CHK	JBD	11-12-12
ENGR	JBD	11-12-12
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau

ASSY BUCKET CROSSOVER ROD

SIZE D | DO OT SCA E | DWG NO. 4278030 | REV 00

SCALE 1/2 | EST WT 91.6 lbm | SHEET 1 OF 1

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CROSSOVER PIPE ASSEMBLY - BUCKET ROD

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CROSSOVER PIPE ASSEMBLY - BUCKET ROD

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4278030		CROSSOVER PIPE ASSEMBLY - BUCKET ROD		
1	R4241071	1	· PIPE ASSEMBLY, CROSSOVER - BUCKET ROD		
2	R4071255	2	· O-RING, 2-1/4" I.D. - POLYURETHANE		
3	R4186402	4	· FLANGE HALF, 2"		
4	R4210349	16	· FLATWASHER, 1/2" - HARDENED		
5	R0827222	16	· BOLT, 1/2"-13 X 2"		
6	R4068358	2	· O-RING, 1-7/8" I.D. - POLYURETHANE		
7	R4186401	4	· FLANGE HALF, 1-1/2"		
			DRAWING, CROSSOVER PIPE ASSEMBLY - BUCKET ROD (R427803000)		

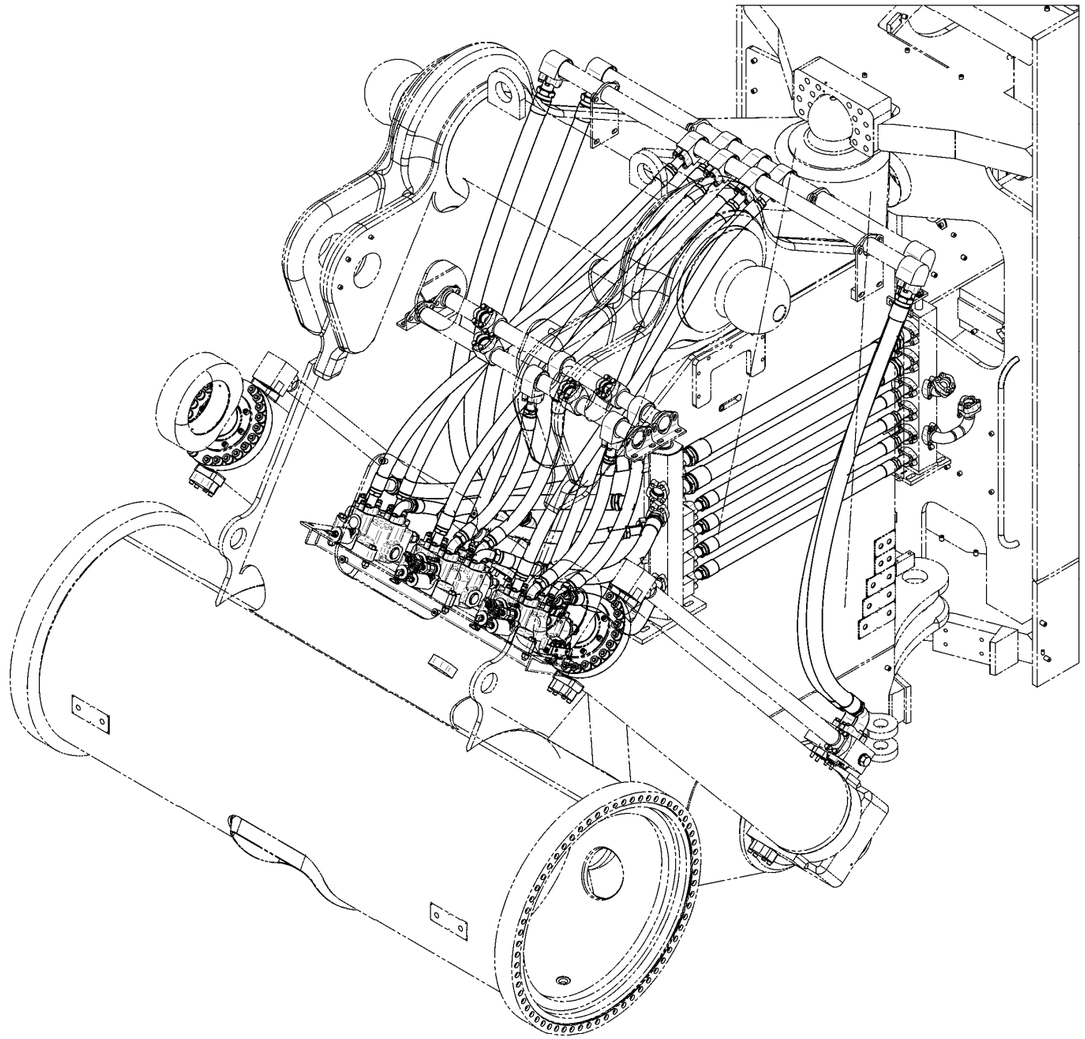
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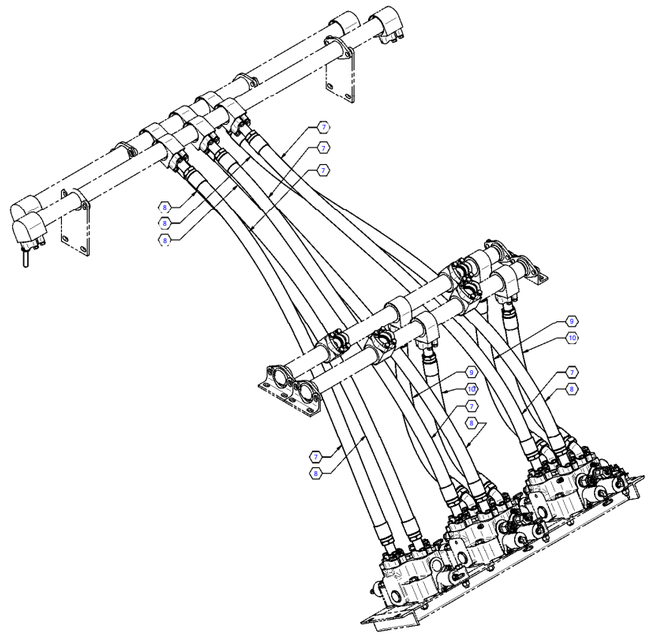
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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FRONT FRAME MAIN HOSE GROUP





MAIN VALVE HOSES

ITEM	PART NO.	QTY	DESCRIPTION
11	4172289	4	HOSE 5000 32 100.0 0F 90F L3
10	4292284	2	HOSE 5000 24 36.0 0F 45F HD
9	4292285	2	HOSE 5000 24 41.0 0F 45F HD
8	4243539	3	HOSE 5000 24 91.0 0F 0F HD
7	4243541	3	HOSE 5000 24 84.0 0F 0F HD
6	4223485	1	HOSE 5000 24 64.0 0F 90F HD L1
5	4222190	1	HOSE 5000 24 60.0 0F 90F HD L1
4	4278403	1	HOSE 5000 24 57.0 0F 60F HD L1
3	4062804	3	HOSE 2500 32 56.0 0F 90F
2	4222185	4	HOSE 5000 24 55.0 0F 0F HD
1	4223414	2	HOSE 1200 40 59.0 0F 0F

REF 428-8368 GP HDW HYD MAIN FF L1250 G3 **FOR HARDWARE INSTALLATION**

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1660.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO

DWN	rhyatt	10-03-16
CHK	EER	10-03-16
ENGR	EER	10-03-16
PROD ENGR		
PROJ APPROVAL	JBD	10-03-16
MATL		

JOYGLOBAL

GP HOSE HYD MAIN FF L1250 G3

SIZE E | DO NOT SCALE | DRWG NO. 4288369 | REV 02

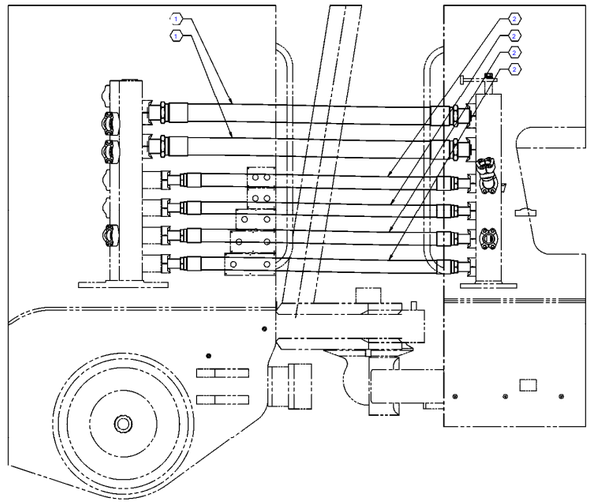
SCALE 1:8 | WT/WT 373.2 lbm | SHEET 1 OF 2

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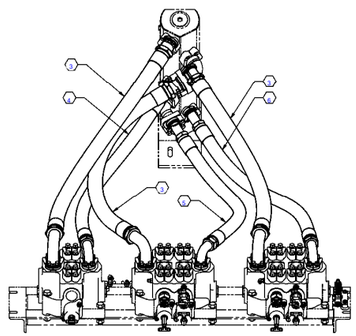
FRONT FRAME MAIN HOSE GROUP

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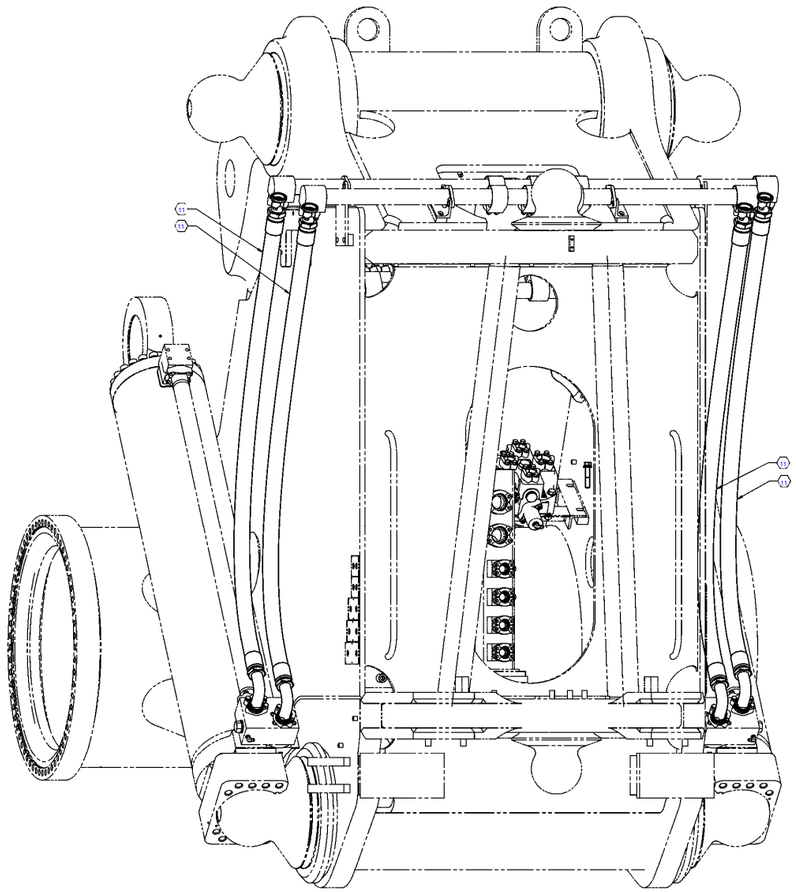
FRONT FRAME MAIN HOSE GROUP



PIVOT HOSES



MANIFOLD HOSES



HOIST CYLINDER HOSES

GP HOSE HYD MAIN FF L1250 G3					
DRAWN mypt	SIZE E	DO NOT SCALE	DWG NO. 4288369	REV 02	
DATE 10-05-16	SCALE 1:8	APP WT 373.2 lbm	SHEET 2 OF 2		

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FRONT FRAME MAIN HOSE GROUP

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FRONT FRAME MAIN HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288369		FRONT FRAME MAIN HOSE GROUP		
1	R4223414	2	· HOSE ASSEMBLY, #40 X 59"		
2	R4222185	4	· HOSE ASSEMBLY, #24 X 55"		
3	R4082804	3	· HOSE ASSEMBLY, #32 X 56"		
4	R4278403	1	· HOSE ASSEMBLY, #24 X 57"		
5	R4222190	1	· HOSE ASSEMBLY, #24 X 60"		
6	R4223485	1	· HOSE ASSEMBLY, #24 X 64"		
7	R4243541	3	· HOSE ASSEMBLY, #24 X 84"		
8	R4243539	3	· HOSE ASSEMBLY, #24 X 91"		
9	R4292285	2	· HOSE ASSEMBLY, #24 X 41"		
10	R4292284	2	· HOSE ASSEMBLY, #24 X 36"		
11	R4172289	4	· HOSE ASSEMBLY, #32 X 100"		
			DRAWING, FRONT FRAME MAIN HOSE GROUP (R428836902)		

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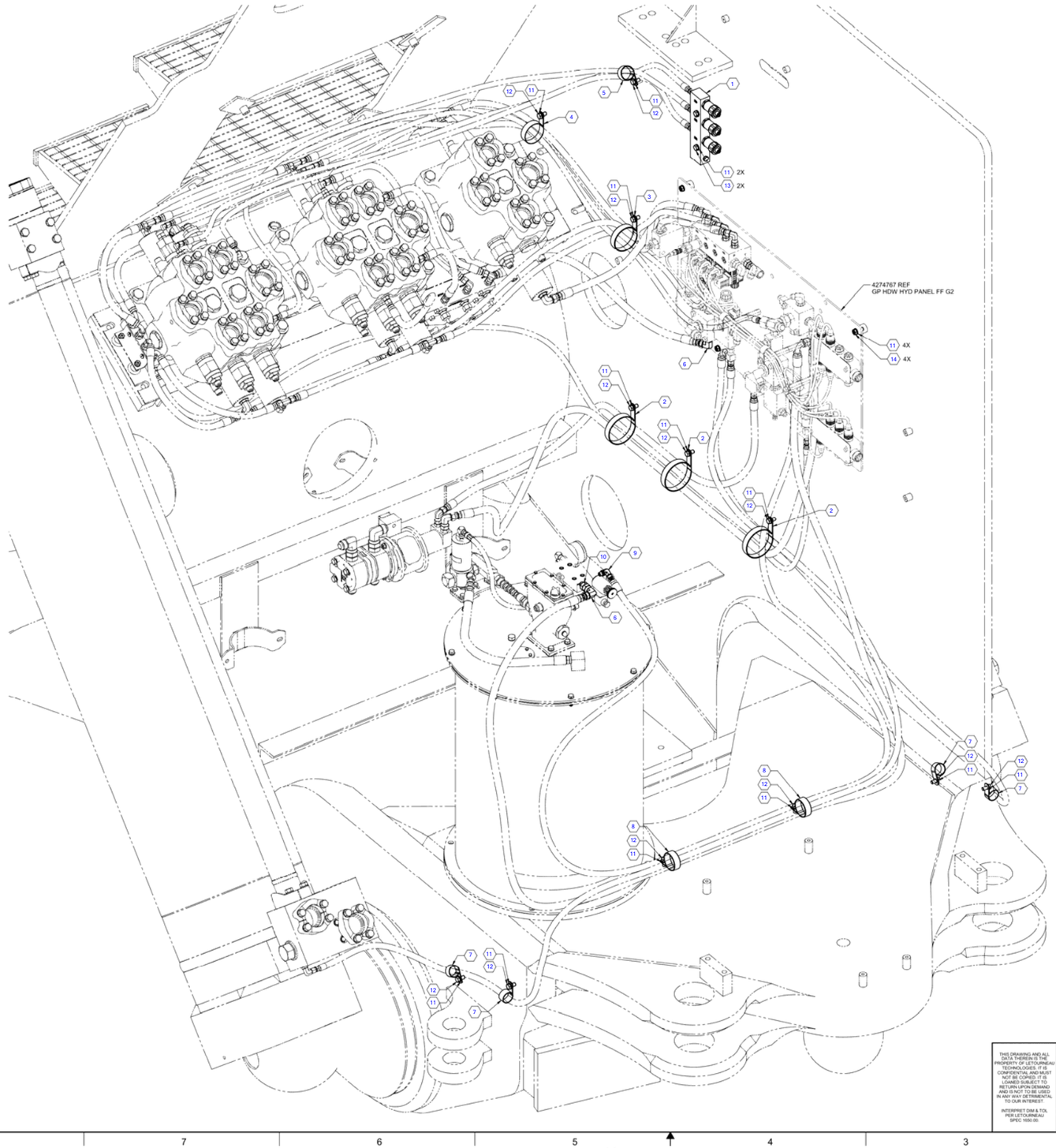
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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FRONT FRAME HYDRAULIC PILOT HARDWARE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHG	CHK
	00	RELEASED	NL12-1886	11-12	TEW	JD	JD
	01	UPDATE HYD PANEL GRAPHICS	1302939	2-2-15	TEW	ANW	JBD
	02	ADD REF# 428-6811 NOTE; DEL REF 427-9430 NOTE	1321871	1-27-16	RAH	JBD	JBD



REF 427-8038 GP HOSE PILOT/ACC FF L1350 G2 **FOR HOSE INSTALLATION**

REF 428-6811 GP HSEM PILOT/ACC FF L1350G2 **FOR MDG HOSE INSTALLATION**

ITEM	PART NO.	QTY	DESCRIPTION
14	0810971	4	BOLT HX .375 1.00 NC G8 FT
13	0829683	2	BOLT HX .375 1.750 NC G8
12	0810970	12	BOLT HX .375 .750 NC G8 FT
11	0753123	18	WASHER LOCK SPR .375 .68 .09
10	4020772	1	FTG HYD 0 8 MJ 6 MO JUMP
9	4116644	1	FTG HYD 90 6 MJ 4 MO
8	4014475	2	CLAMP CABLE INSL 2.00 .406
7	0986144	4	CLAMP CABLE INSL 1.25 .406
6	4002479	2	HYD FITTING, 90-DEG 8 MJ 8 FJ
5	0986145	1	CLAMP CABLE INSL 1.50 .406
4	4065747	1	CLAMP CABLE INSL 2.50 .406
3	4065748	1	CLAMP CABLE INSL 3.00 .406
2	4068386	3	CLAMP CABLE INSL 3.50 .406
1	4270955	1	ASSY CYL PRESS TRANSDUCER

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650 (M)

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- TOLERANCES ON: ANGLES ±1° | FRACTIONS ±1/16 | XX DECIMAL ±.03 | XXX DECIMAL ±.015
- MACHINED CORNERS .156 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

DWN	twillis	11-9-12
CHK	JD	11-12-12
ENGR		
PROD ENGR	JD	11-12-12
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HW PILOT/ACC FF L1350 G2

SIZE E | DO NOT SCALE | DWG NO 4278037 | REV 02

SCALE 1/4 | WT 9.5 lbm | SHEET 1 OF 1

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FRONT FRAME HYDRAULIC PILOT HARDWARE GROUP

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4278037		FRONT FRAME HYDRAULIC PILOT HARDWARE GROUP		
	R4274767	REF	· FRONT FRAME HYDRAULIC PANEL ASSEMBLY (PAGE 8.39-8.39A)		
1	R4270955	1	· CYLINDER PRESSURE TRANSDUCER ASSEMBLY (PAGE 8.69-8.69A)		
2	R4068386	3	· CLAMP, CABLE - INSULATED, 3-1/2" I.D.		
3	R4065748	1	· CLAMP, CABLE - 3"		
4	R4065747	1	· CLAMP, CABLE - 2-1/2"		
5	R0986145	1	· CLAMP, CABLE - INSULATED, 1-1/2"		
6	R4002479	2	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
7	R0986144	4	· CLAMP, CABLE - INSULATED, 1-1/4"		
8	R4014475	2	· CLAMP, CABLE - INSULATED, 2"		
9	R4116644	1	· ELBOW, #4 MO X 90 deg. X #6 MJ		
10	R4020772	1	· ADAPTER, #6 MO X #8 MJ		
11	R0753123	18	· LOCKWASHER, 3/8"		
12	R0810970	12	· BOLT, 3/8"-16 X 3/4"		
13	R0829683	2	· BOLT, 3/8"-16 X 1-3/4"		
14	R0810971	4	· BOLT, 3/8"-16 X 1"		
			DRAWING, FRONT FRAME HYDRAULIC PILOT HARDWARE GROUP (R427803702)		

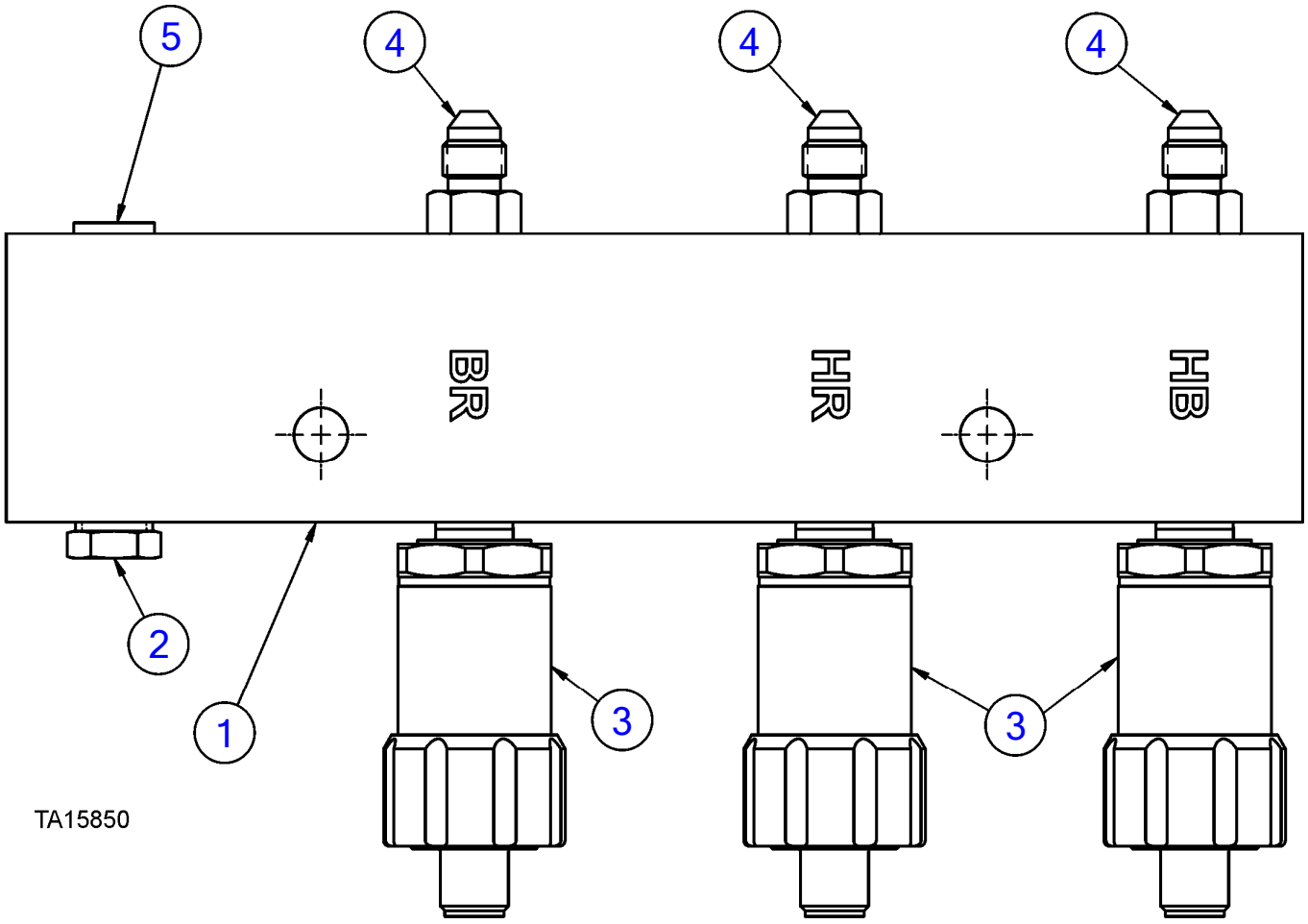
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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CYLINDER PRESSURE TRANSDUCER ASSEMBLY



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CYLINDER PRESSURE TRANSDUCER ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4270955		CYLINDER PRESSURE TRANSDUCER ASSEMBLY		
1	R4241154	1	· MANIFOLD HOUSING, 4 PORT		
2	R4013779	1	· PLUG, PIPE - 1/4", HEX HD.		
3	R4255491	3	· TRANSMITTER, PRESSURE - 0-5000 PSI		
4	R4014580	3	· ADAPTER, #4 MO X #4 MJ		
5	R4243929	1	· PLUG, PIPE - #4, HEX CSK.		
			DRAWING, CYLINDER PRESSURE TRANSDUCER ASSEMBLY (R427095503)		

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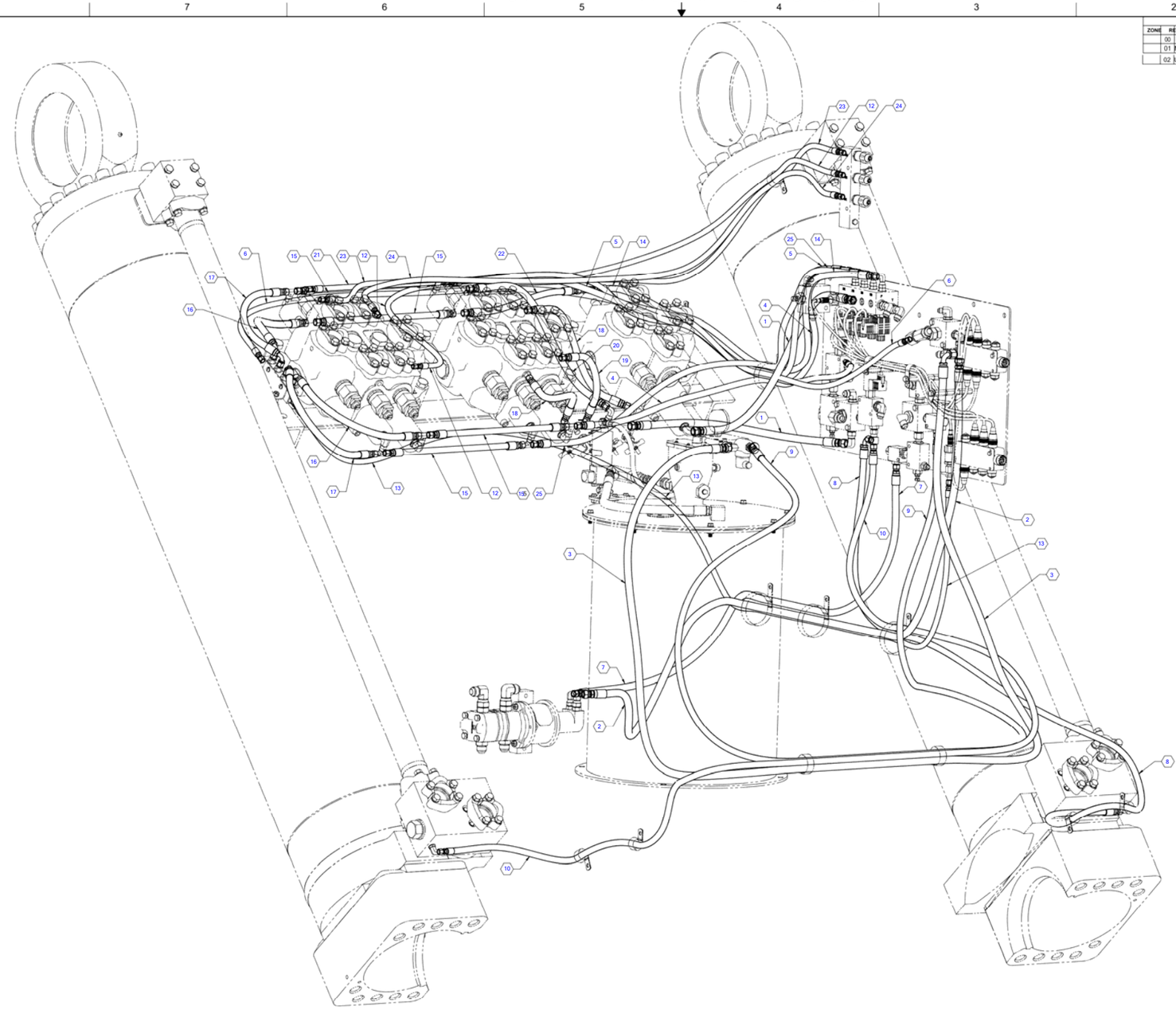
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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FRONT FRAME HYDRAULIC PILOT HOSE GROUP

REVISIONS								
ZONE	REV	DESCRIPTION	ECN		DATE	CHG	CHK
	00	RELEASED	NL12-1886	11-12	TEW	JD	JD
	01	MRS# 989: CORRECT IT 2 & 8 DESCRIPTION	NL13-1611	8-14	TEW	JBD	JBD
	02	UPDATE GRAPHICS	1302939	2-2-15	TEW	ANW	JBD



REF 427-8037 GP HWD HYD PILOT/ACC FF L1350 G2 **FOR HARDWARE INSTALLATION.**

REF 427-9430 REF FLUID PWR DIA L1350 **FOR SCHEMATIC**

ITEM	PART NO.	QTY	DESCRIPTION
25	4097827	1	HOSE 2250 6 58.0 0J 0J
24	4122856	1	HOSE 5000 4 114.0 0J 0J
23	4148824	1	HOSE 5000 4 100.0 0J 0J
22	4148861	1	HOSE 2250 6 16.0 0J 0J
21	4143887	1	HOSE 5000 4 20.0 0J 0J
20	4129106	1	HOSE 4000 6 24.0 0J 0J
19	4103632	1	HOSE 4000 6 12.0 0J 0J
18	4129103	2	HOSE 4000 6 18.0 0J 0J
17	4155548	2	HOSE 4000 6 18.0 0J 90J
16	4158769	2	HOSE 4000 6 20.0 0J 90J
15	4150758	4	HOSE 2250 6 19.0 0J 0J
14	4030448	1	HOSE 2250 6 64.0 0J 0J
13	4150753	1	HOSE 5000 4 148.0 0J 0J
12	6983189	1	HOSE 5000 4 108.0 0J 0J
11	4122872	1	HOSE 5000 4 70.0 0J 0J
10	6982815	1	HOSE 4000 6 158.0 0J 0J
9	4129162	1	HOSE 4000 6 136.0 0J 0J
8	4155732	1	HOSE 4000 6 104.0 0J 0J
7	4243742	1	HOSE 4000 6 78.0 0J 90J
6	4096672	1	HOSE 2750 4 142.0 0J 0J
5	4061706	1	HOSE 2250 6 76.0 0J 0J
4	4034906	1	HOSE 2250 6 50.0 0J 0J
3	4223438	1	HOSE 2000 8 140.0 0J 90J
2	4098409	1	HOSE 2000 8 102.0 0J 0J
1	4017536	2	HOSE 2000 8 34.0 0J 0J

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- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

DWN	twillis	11-9-12
CHK	JD	11-12-12
ENGR		
PROD ENGR	JD	11-12-12
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HOSE PILOT/ACC FF L1350 G2

SIZE E | DO NOT SCALE | DWG NO 4278038 | REV 02

SCALE 1/4 | WT 116.6 lbm | SHEET 1 OF 4

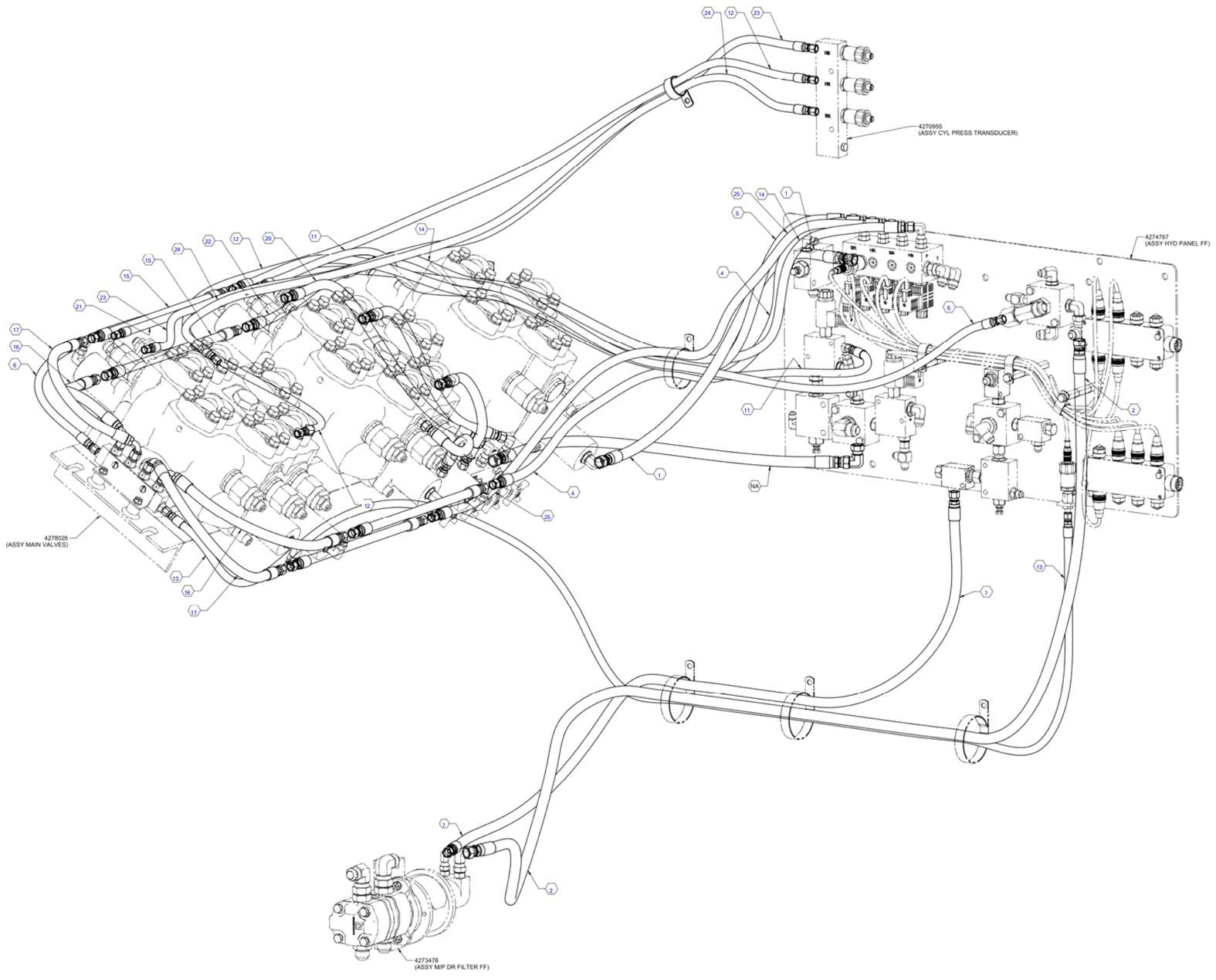
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FRONT FRAME HYDRAULIC PILOT HOSE GROUP

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REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHD	CHK
	00	RELEASED	NIL12-1886	11-12	TEW	JD	JD
	01	SEE SHEET 1	NIL13-1611	8-14	TEW	JBD	JBD
	02	UPDATE GRAPHICS	1302939	2-2-15	TEW	ANW	JBD



GP HOSE PILOT:ACC FF L1350 G2 | E | DO NOT SCALE | 4278038 | 02 | 11-12-12 | NONE | 116.6 lbm | 2 OF 4

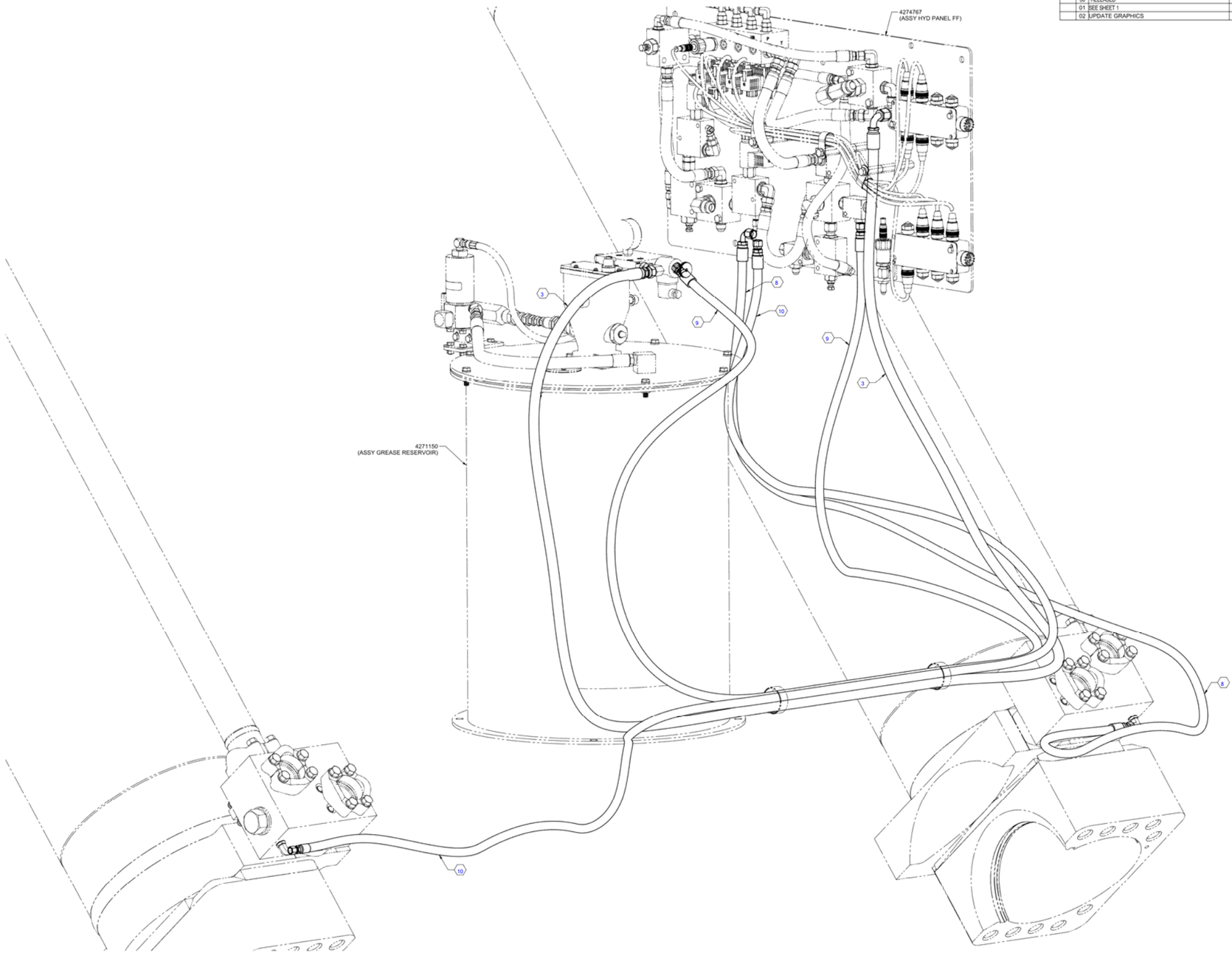
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FRONT FRAME HYDRAULIC PILOT HOSE GROUP

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHD	CHK
	00	RELEASED	NL12-1886	11-12	TEW	JD
	01	SEE SHEET 1	NL13-1611	8-14	TEW	JBD
	02	UPDATE GRAPHICS	1302939	2-2-15	TEW	ANW



GP HOSE PILOT/ACC FF L1350 G2

		SIZE E	DO NOT SCALE	DWG NO 4278038	REV 02
DRAWN	twills				
ISSUED	11-12-12	SCALE NONE	SOFT WT 116.6 lbm	SHEET 3 OF 4	

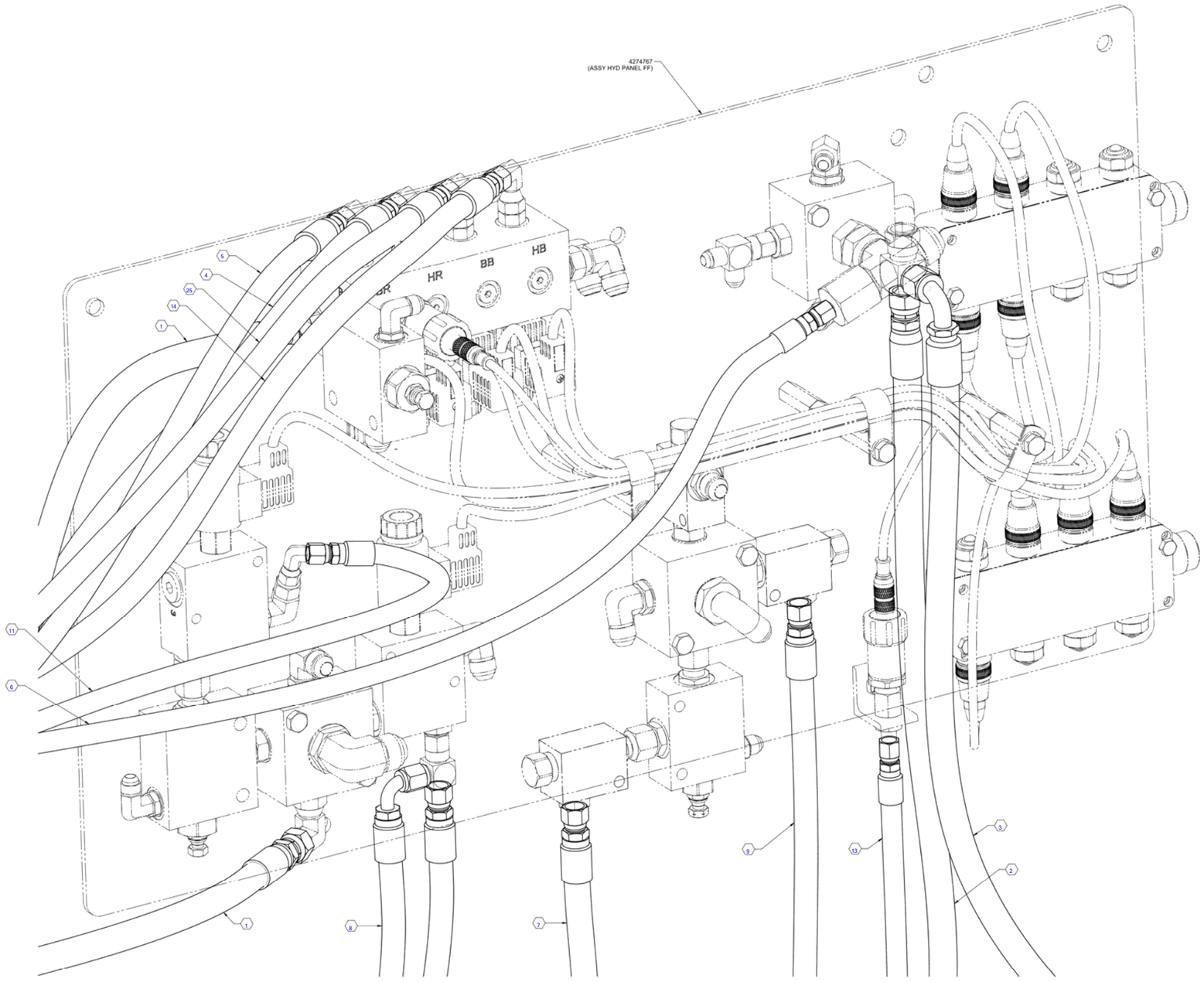
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REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHD	CHK
	00	RELEASED	NL12-1886	11-12	TEW	JD	JD
	01	SEE SHEET 1	NL13-1611	8-14	TEW	JBD	JBD
	02	UPDATE GRAPHICS	1302939	2-2-15	TEW	ANW	JBD



GP HOSE PILOT/ACC FF L1350 G2 | E | DO NOT SCALE | 4278038 | 02 | 11-12-12 | NONE | 116.6 lbm | 4 OF 4

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FRONT FRAME HYDRAULIC PILOT HOSE GROUP

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FRONT FRAME HYDRAULIC PILOT HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4278038		FRONT FRAME HYDRAULIC PILOT HOSE GROUP		
1	R4017536	2	· HOSE ASSEMBLY, #8 X 34"		
2	R4098409	1	· HOSE ASSEMBLY, #8 X 102"		
3	R4223438	1	· HOSE ASSEMBLY, #8 X 140"		
4	R4034906	1	· HOSE ASSEMBLY, #6 X 50"		
5	R4061706	1	· HOSE ASSEMBLY, #6 X 76"		
6	R4096672	1	· HOSE ASSEMBLY, #4 X 142"		
7	R4243742	1	· HOSE ASSEMBLY, #6 X 78"		
8	R4155732	1	· HOSE ASSEMBLY, #6 X 104"		
9	R4129162	1	· HOSE ASSEMBLY, #6 X 136"		
10	R6982815	1	· HOSE ASSEMBLY, #6 X 158"		
11	R4122872	1	· HOSE ASSEMBLY, #4 X 70"		
12	R6983189	1	· HOSE ASSEMBLY, #4 X 108"		
13	R4150753	1	· HOSE ASSEMBLY, #4 X 148"		
14	R4030448	1	· HOSE ASSEMBLY, #6 X 64"		
15	R4150758	4	· HOSE ASSEMBLY, #6 X 19"		
16	R4158769	2	· HOSE ASSEMBLY, #6 X 20"		
17	R4155548	2	· HOSE ASSEMBLY, #6 X 18"		
18	R4129103	2	· HOSE ASSEMBLY, #6 X 18"		
19	R4103632	1	· HOSE ASSEMBLY, #6 X 12"		
20	R4129106	1	· HOSE ASSEMBLY, #6 X 24"		
21	R4143887	1	· HOSE ASSEMBLY, #4 X 20"		
22	R4148861	1	· HOSE ASSEMBLY, #6 X 16"		
23	R4148824	1	· HOSE ASSEMBLY, #4 X 100"		
24	R4122856	1	· HOSE ASSEMBLY, #4 X 114"		
25	R4097827	1	· HOSE ASSEMBLY, #6 X 58"		
			DRAWING, FRONT FRAME HYDRAULIC PILOT HOSE GROUP (R427803802)		

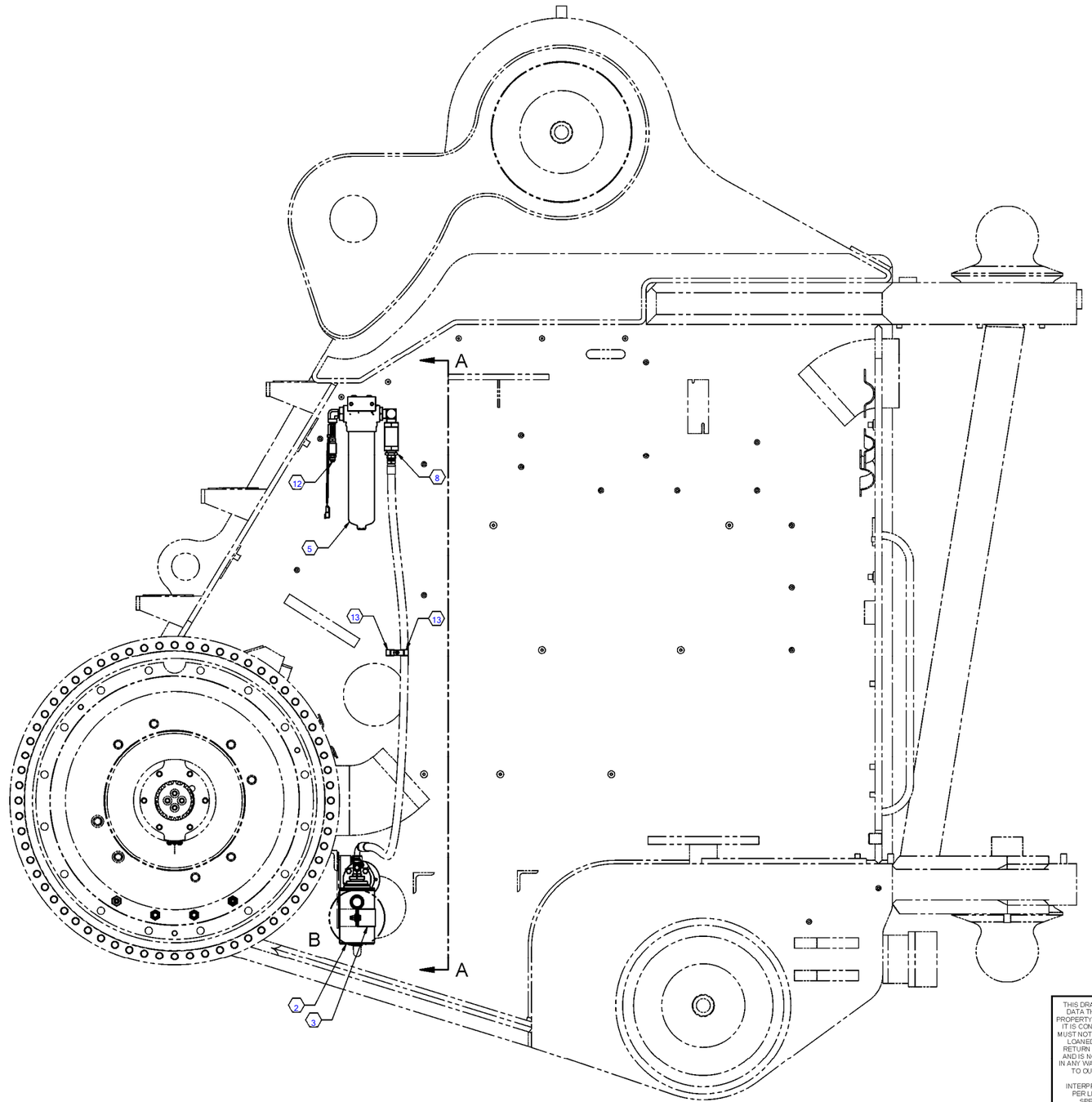
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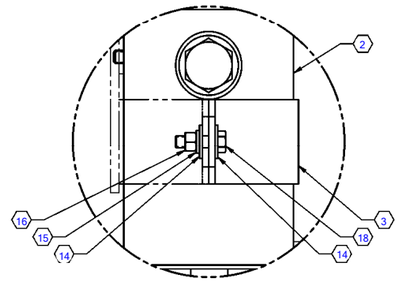
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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FRONT FRAME DRIVER FILTRATION HARDWARE GROUP





DETAIL B
SCALE 1:2

REF 428-8450 GP HOSE DRIVER FILTER FF L1250G3
FOR HOSE INSTALLATION

REF 428-8456 GP HSEM DRIVER FILTER FF L1250G3
FOR MDG-41 HOSE INSTALLATION

REF 428-4960 REF FLUID POWER DIA L1250G3
FOR OTHER L1250 G3 FLUID POWER GROUPS

ITEM	PART NO.	QTY	DESCRIPTION
23	0812278	2	BOLT HEX .250 .63 NC G8 FT
22	0213584	2	WASHER LOCK SPR .25 .49 .06
21	4010923	2	WASHER FLAT .250 .63 .065
20	0836039	4	BOLT HX .375 1.000 NF G8
19	0810971	4	BOLT HX .375 1.000 NC G8 FT
18	0808476	4	BOLT HX .375 1.250 NC G8
17	4009641	2	BOLT HX .375 2.000 NC G8
16	0753124	4	NUT HX .375 NF G8 PL
15	0753123	14	WASHER LOCK SPR .375 .68 .09
14	0233042	8	WASHER FLAT .375 1.00 .10
13	0986143	4	CLAMP CABLE INSL 1.00 .406
12	4018666	2	FTG HYD 0 8 MJ 8 MP JUMP
11	4040550	2	FTG HYD 0 8 MJ 12 MO JUMP
10	4002457	2	FTG HYD 0 12 MJ 12 MO
9	4223340	2	PIPE PLUG HX 1.000
8	4040561	4	FTG HYD 0 12 MJ 16 MP
7	4002473	2	HYD FITTING, 90 12 MJ 12 MO
6	4243516	2	FTG HYD 0°24MO 12FO
5	4288447	2	ASSY DRIVER FILTER
4	4238033	2	STR FILTER MOUNT
3	0987622	2	CLAMP HALF 5 INCH
2	4254486	2	ASSEMBLY FILTER
1	4273488	1	ASSY M/P DR FILTER RF L1850 G2

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-9622

		DATE
DWN	rhyatt	2-22-17
CHK	EER	2-22-17
ENGR	EER	2-22-17
PROD ENGR		
PROJ APPROVAL	JBD	2-22-17
MATL		

JOYGLOBAL

GP HDW DRIVER FILTER
FF L1250G3

SIZE D | DO NOT SCALE | DWG NO. 4288448 | REV 00

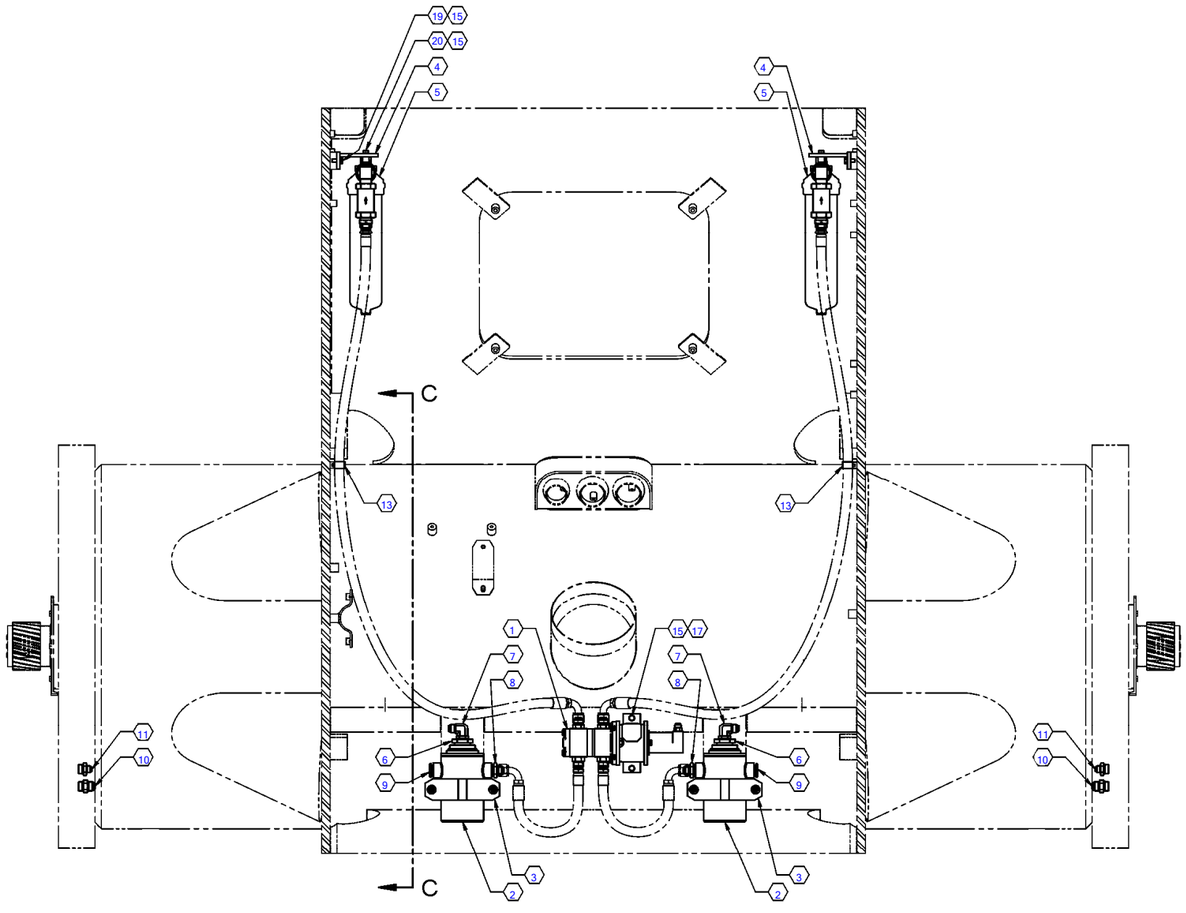
SCALE 1:8 | EST WT 86.0 lbm | SHEET 1 OF 2

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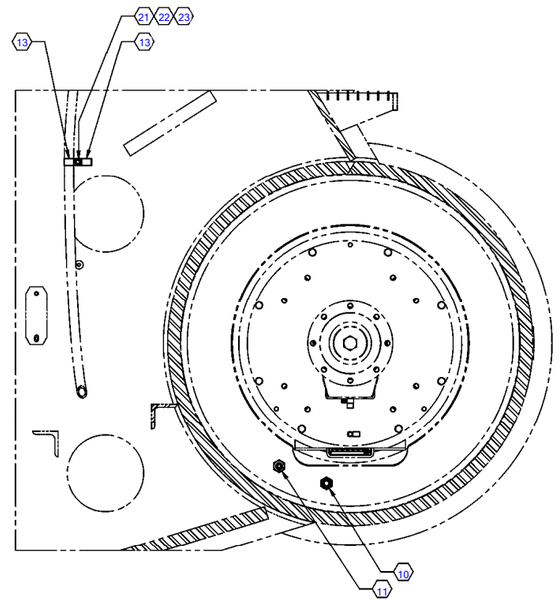
FRONT FRAME DRIVER FILTRATION HARDWARE GROUP

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FRONT FRAME DRIVER FILTRATION HARDWARE GROUP



SECTION A-A



SECTION C-C

TYP BOTH SIDES

GP HDW DRIVER FILTER FF L1250G3		SIZE D	DO NOT SCALE	DWG NO 4288448	REV 00
DRAWN rhyatt					
ISSUED 2-22-17	SCALE 1:8	EST WT 86.0 lbm		SHEET 2 OF 2	

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FRONT FRAME DRIVER FILTRATION HARDWARE GROUP

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FRONT FRAME DRIVER FILTRATION HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288448		FRONT FRAME DRIVER FILTRATION HARDWARE GROUP		
1	R4273488	1	· DRIVER FILTRATION MOTOR/PUMP ASSEMBLY - FRONT FRAME (PAGE 8.48-8.48A)		
2	R4254486	2	· SUCTION FILTER ASSEMBLY (PAGE 8.72-8.72A)		
3	R0987622	2	· CLAMP HALF, 5"		
4	R4238033	2	· MOUNT STRUCTURE, FILTER		
5	R4288447	2	· DRIVER FILTER ASSEMBLY (PAGE 8.73-8.73A)		
6	R4243516	2	· REDUCER, #12 FO X #24 MO		
7	R4002473	2	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
8	R4040561	4	· ADAPTER, 1" MP X #12 MJ		
9	R4223340	2	· PLUG, PIPE - 1", HEX HD.		
10	R4002457	2	· ADAPTER, #12 MO X #12 MJ		
11	R4040550	2	· ADAPTER, #12 MO X #8 MJ		
12	R4018666	2	· ADAPTER, 1/2" MP X #8 MJ		
13	R0986143	4	· CLAMP, CABLE - INSULATED, 1"		
14	R0233042	8	· FLATWASHER, 3/8"		
15	R0753123	14	· LOCKWASHER, 3/8"		
16	R0753124	4	· NUT, 3/8"-24		
17	R4009641	2	· BOLT, 3/8"-16 X 2"		
18	R0808476	4	· BOLT, 3/8"-16 X 1-1/4"		
19	R0810971	4	· BOLT, 3/8"-16 X 1"		
20	R0836039	4	· BOLT, 3/8"-24 X 1"		
21	R4010923	2	· FLATWASHER, 1/4"		
22	R0213584	2	· LOCKWASHER, 1/4"		
23	R0812278	2	· BOLT, 1/4"-20 X 5/8"		
			DRAWING, FRONT FRAME DRIVER FILTRATION HARDWARE GROUP (R428844800)		

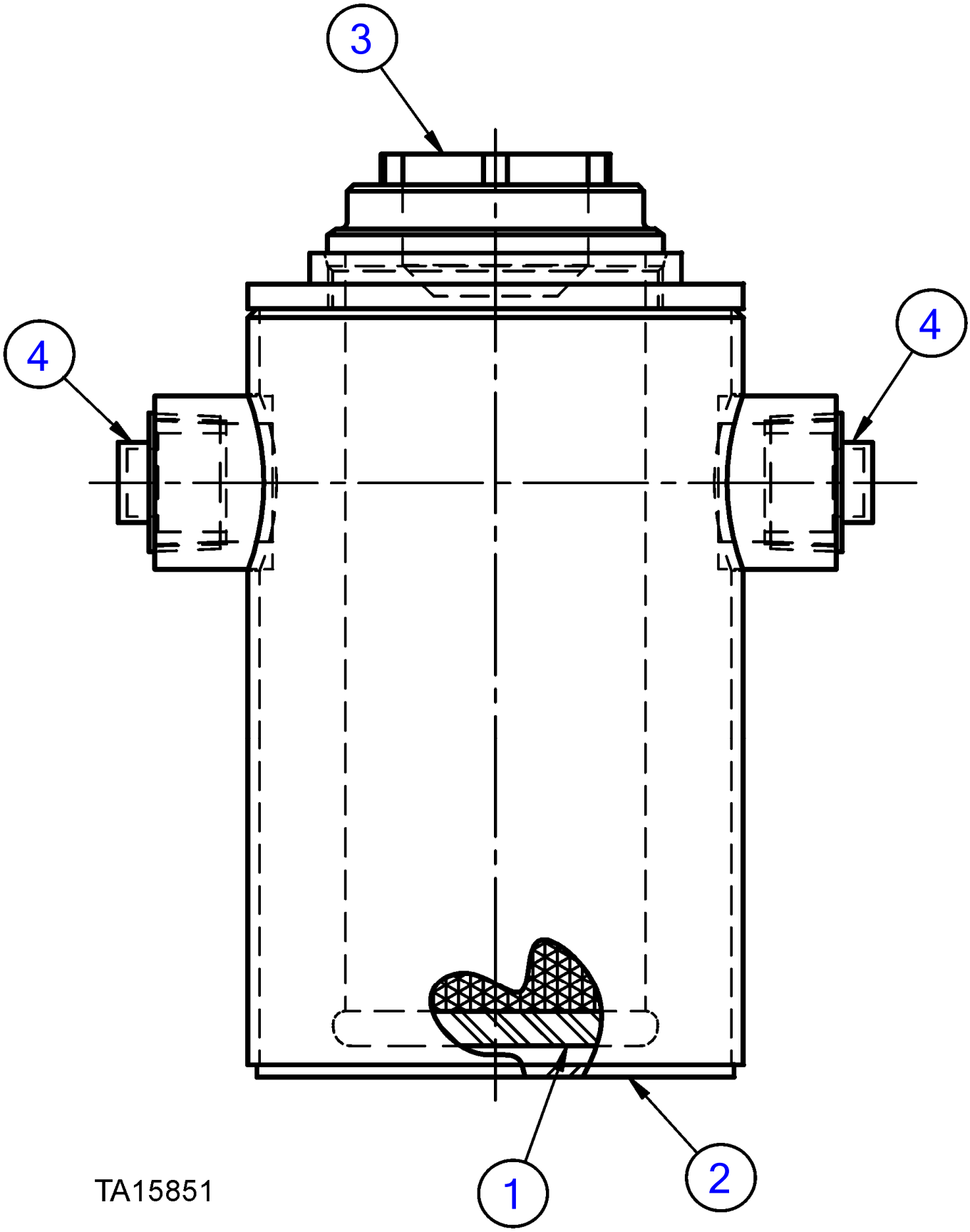
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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SUCTION FILTER ASSEMBLY



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SUCTION FILTER ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4254486		SUCTION FILTER ASSEMBLY		3/3/16
1	R4271055	1	· FILTER, WASHABLE - 30 MESH		
	R4243926	1	· · O-RING, 3-1/4" I.D. - POLYURETHANE		3/3/16
2	R4254487	1	· HOUSING STRUCTURE, FILTER		
3	R4150428	1	· PLUG, SHIPPING - 1-1/2"		
4	R4258380	2	· PLUG, SHIPPING - 1"		
		REF	DRAWING, SUCTION FILTER ASSEMBLY (R425448605)		

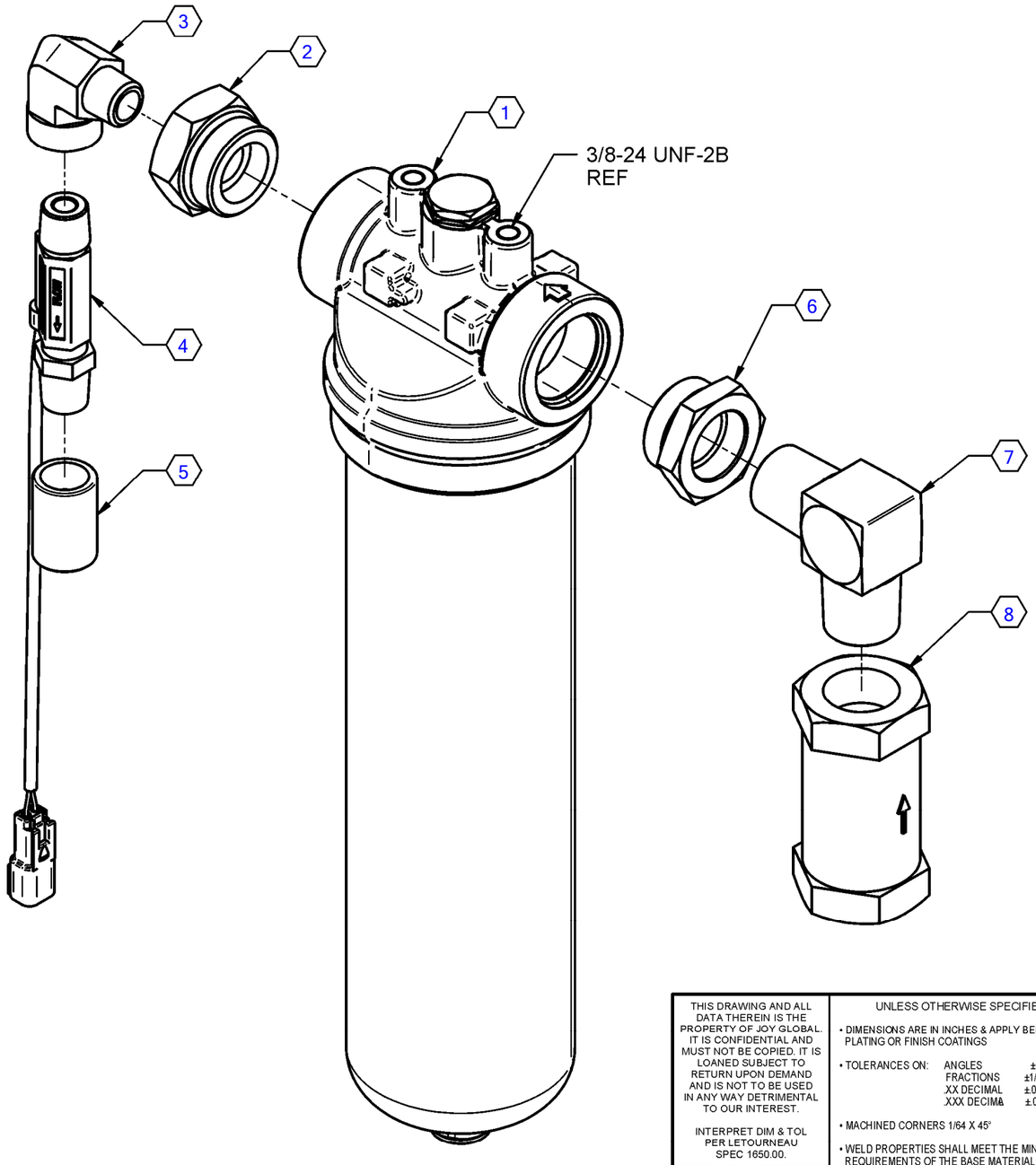
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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DRIVER FILTER ASSEMBLY



SERVICE PART:
424-4991 FILTER ELEMENT

ITEM	PART NO.	QTY	DESCRIPTION
8	4213978	1	VALVE CHECK
7	4244735	1	FTG HYD 90 16 MP 16 MP
6	4244734	1	FTG HYD 0 20 MO 16 FP
5	0180841	1	PIPE COUPLING STD 1/2 NPT
4	4270058	1	ASSEMBLY FLOW SWITCH
3	4032325	1	PIPE HYD ST ELB 90 8 MP X 8 FP
2	4077098	1	BUSHING 1-1/4 O-RING X 1/2 NPTF
1	4291708	1	FILTER LOW PRESSURE

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

USED ON
428-8448

		DATE
DWN	rhyatt	2-15-17
CHK	EER	2-15-17
ENGR	EER	2-15-17
PROD ENGR		
PROJ APPROVAL	JBD	2-15-17
MATL		

JOYGLOBAL

ASSY DRIVER FILTER

SIZE	DWG NO.	REV
B	4288447	00

DO NOT SCALE

SCALE	EST WT	SHEET
1:2	11.4 lbm	1 OF 1

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DRIVER FILTER ASSEMBLY

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DRIVER FILTER ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288447		DRIVER FILTER ASSEMBLY		7/15/20
1	R4291708	1	· FILTER ASSEMBLY, LOW PRESSURE		
	R4244991	1	· · ELEMENT, FILTER		7/15/20
	R4291750	1	· · SEAL KIT		7/15/20
2	R4077098	1	· BUSHING, #20 MO X 1/2" FP		
3	R4032325	1	· ELBOW, 1/2" FP X 90 deg. X 1/2" MP		
4	R4270058	1	· SWITCH ASSEMBLY, FLOW		
	R4253949	1	· · SWITCH, FLOW - N.O. SPST, 20 VOLT-AMPS - 1/2" MP		
	R4255415	1	· · RECEPTACLE, DT04-2P		
	R4255416	1	· · WEDGE, W2P		
	R4185763	2	· · PIN, CONTACT - 16		
5	R0180841	1	· COUPLING, PIPE - 1/2"		
6	R4244734	1	· ADAPTER, #20 MO X 1" FP		
7	R4244735	1	· ELBOW, 1" MP X 90 deg. X 1" MP		
8	R4213978	1	· VALVE, CHECK - 1" FP, .29 PSI		
	R4244991	REF	ELEMENT, FILTER		
			DRAWING, DRIVER FILTER ASSEMBLY (R428844700)		

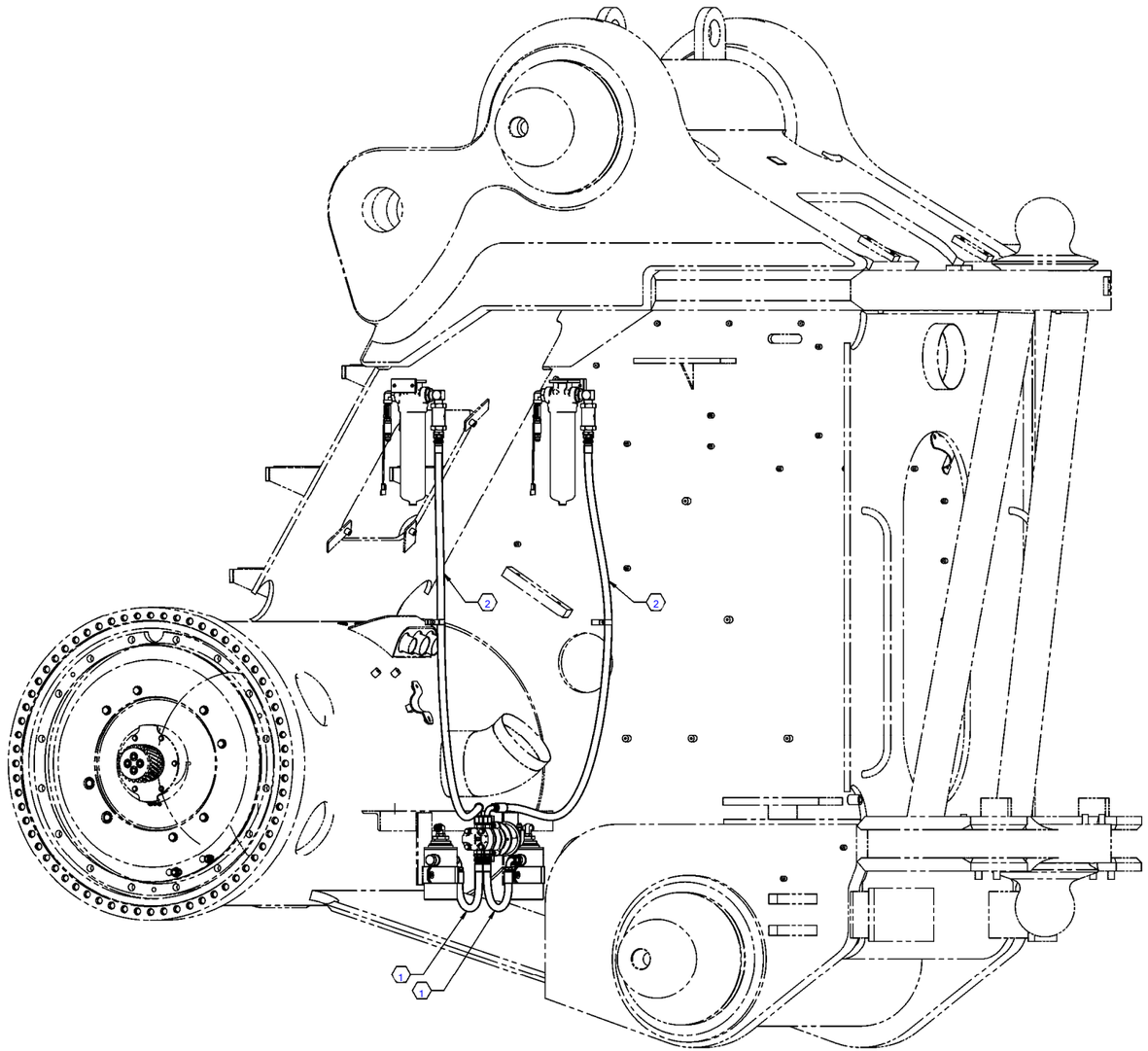
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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FRONT FRAME DRIVER FILTRATION HOSE GROUP



REF 428-8448 GP HDW DRIVER FILTER FF L1250G3
FOR HARDWARE INSTALLATION

REF 428-4960 REF FLUID POWER DIA L1250G3
FOR OTHER L1250 G3 FLUID POWER GROUPS

ITEM	PART NO.	QTY	DESCRIPTION
2	4243856	2	HOSE 1250 12 80.0 0J 90J
1	4222057	2	HOSE 1250 12 20.0 0J 90J

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

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- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-9622

		DATE
DWN	rhyatt	2-23-17
CHK	EER	2-23-17
ENGR	EER	2-23-17
PROD ENGR		
PROJ APPROVAL	JBD	2-23-17
MATL		

JOYGLOBAL

GP HOSE DRIVER FILTER
FF L1250G3

SIZE D | DO NOT SCALE | DWG NO. 4288450 | REV 00

SCALE 1:20 | EST WT 7.7 lbm | SHEET 1 OF 1

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FRONT FRAME DRIVER FILTRATION HOSE GROUP

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FRONT FRAME DRIVER FILTRATION HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288450		FRONT FRAME DRIVER FILTRATION HOSE GROUP		
1	R4222057	2	· HOSE ASSEMBLY, #12 X 20"		
2	R4243856	2	· HOSE ASSEMBLY, #12 X 80"		
			DRAWING, FRONT FRAME DRIVER FILTRATION HOSE GROUP (R428845000)		

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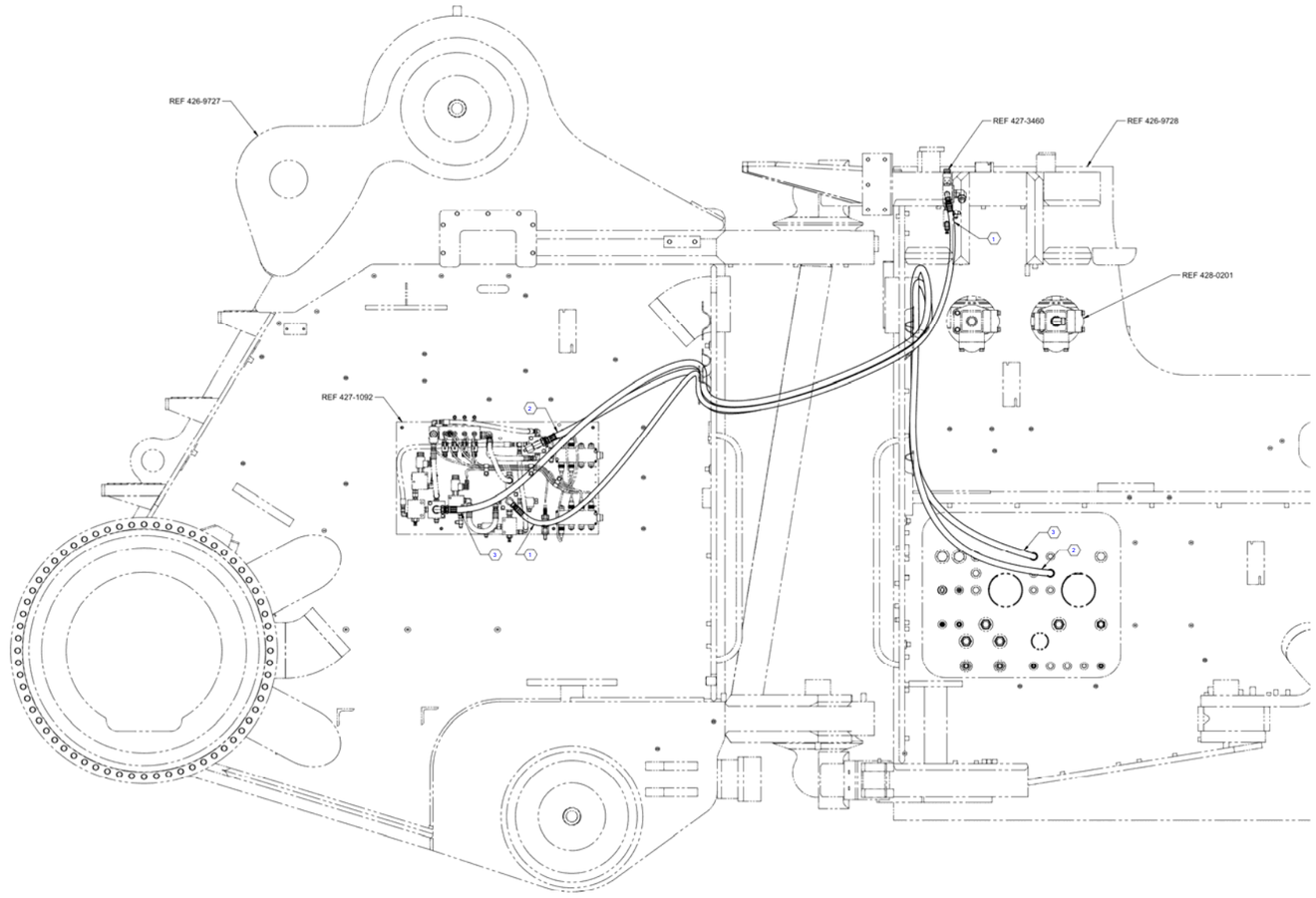
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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PIVOT LOOP HOSE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	
	00	RELEASE	NL12-1886	11-12	RAH	JBD	JBD



ITEM	PART NO.	QTY	DESCRIPTION
3	4243738	1	HOSE 1250 12 300.0 0J 0J
2	4222292	1	HOSE 1250 12 288.0 0J 0J
1	4150779	1	HOSE 4250 8 168.0 0J 0J

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00

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- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, XX DECIMAL ±.03, XXX DECIMAL ±.015
- MACHINED CORNERS .156 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	rhyatt	10-29-12
CHK	JBD	11-12-12
ENGR	JBD	11-12-12
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau

GP HOSE PIVOT LOOP L1350 G2

SIZE E | CAGE CODE 0 OT S LE | DWG NO. 4278032 | REV 00

SCALE 1/8 | DO NOT SCALE 7.8 Bm | SHEET 1 OF 2

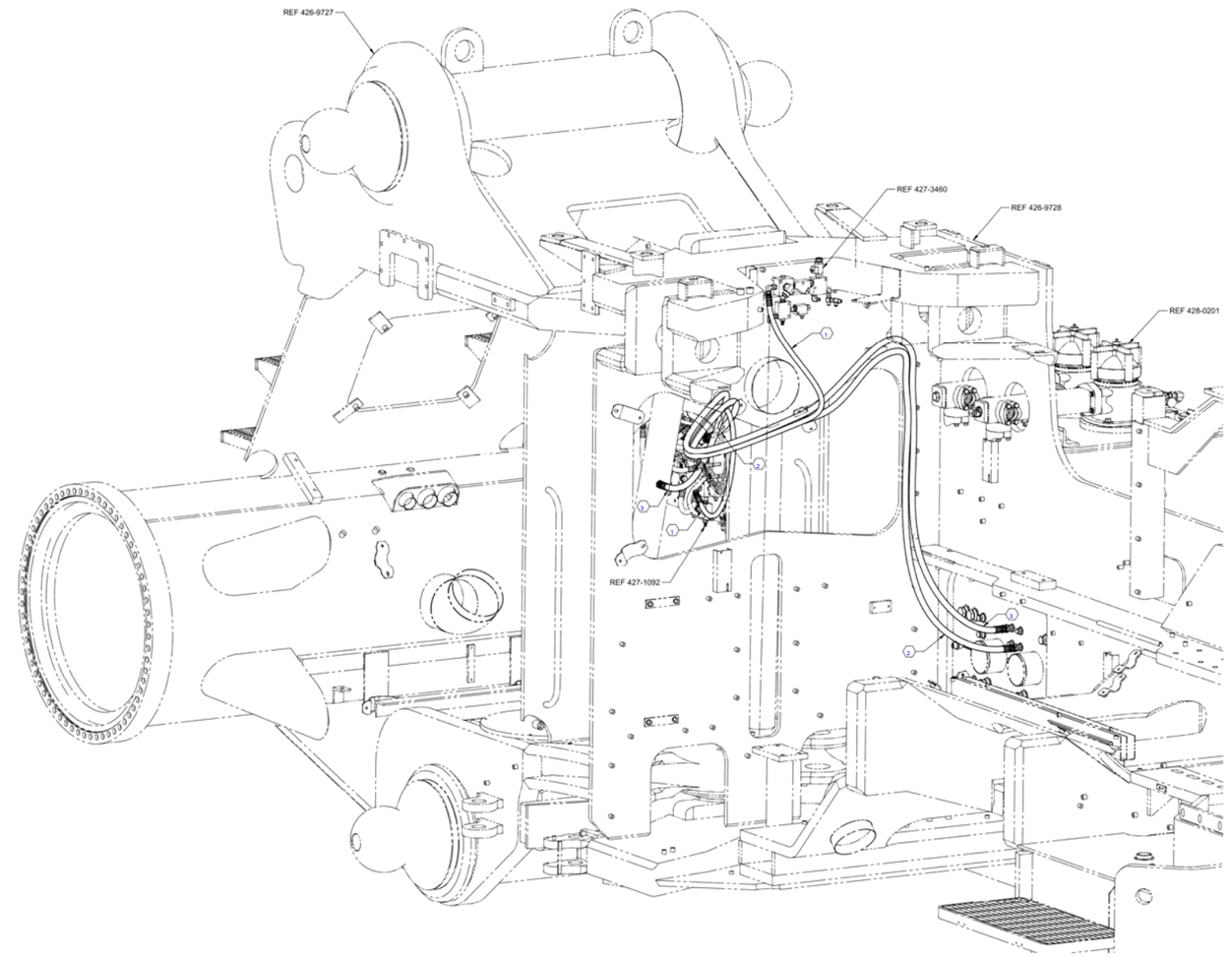
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PIVOT LOOP HOSE GROUP

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PIVOT LOOP HOSE GROUP

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHD	CHK
	00	RELEASE	NL12-1886	11-12	RAH	JBD	JBD



GP HOSE PIVOT LOOP L1350 G2

E | 0 OTS LE | 4278032 | 00

11-12-12 | 1/8 | 7.8 lbm | 2 OF 2

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PIVOT LOOP HOSE GROUP

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PIVOT LOOP HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4278032		PIVOT LOOP HOSE GROUP		
1	R4150779	1	· HOSE ASSEMBLY, #8 X 168"		
2	R4222292	1	· HOSE ASSEMBLY, #12 X 288"		
3	R4243738	1	· HOSE ASSEMBLY, #12 X 300"		
			DRAWING, PIVOT LOOP HOSE GROUP (R427803200)		

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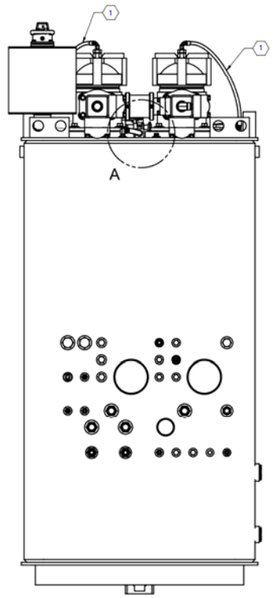
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

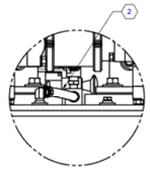
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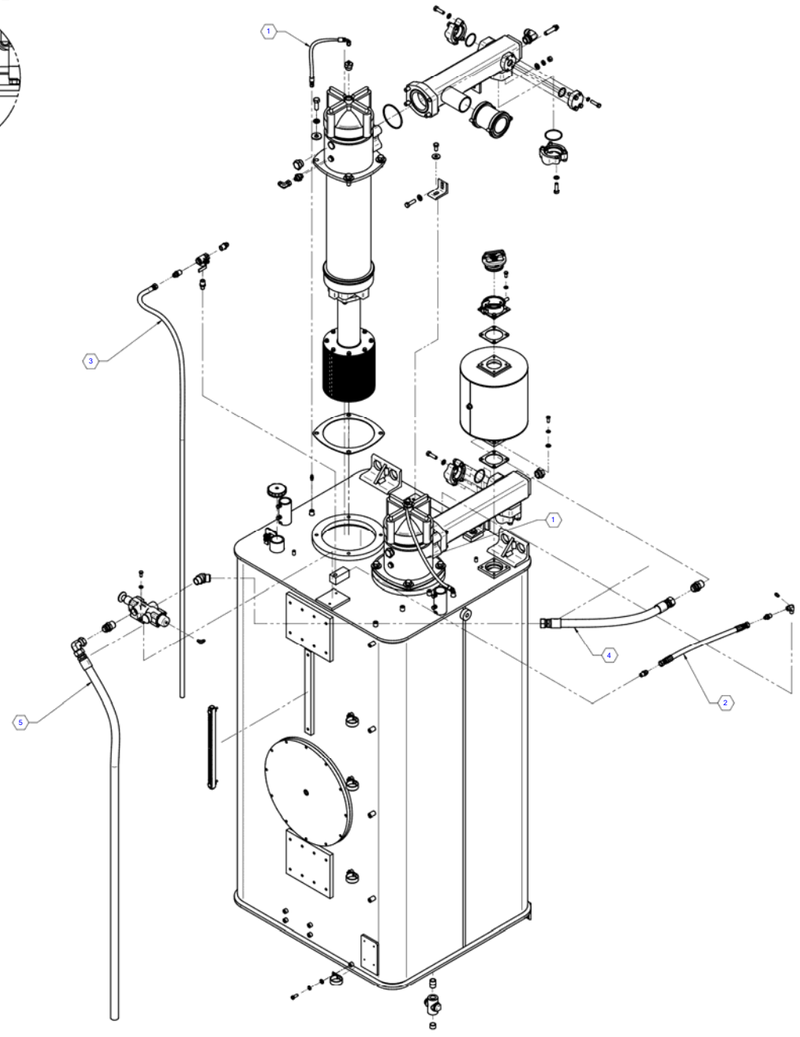
HYDRAULIC RESERVOIR HOSE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	
	00	RELEASE	NL13-1602	2-4	TEW	JD	JD





DETAIL A
1:4



REF 428-0201 GP HDW HYD RESERVOIR L1350 G2
FOR HARDWARE INSTALLATION ON RESERVOIR

ITEM	PART NO.	QTY	DESCRIPTION
5	4213537	1	HOSE 1000 16 80.0 0J
4	4082839	1	HOSE 1000 16 26.0 0J 0J
3	4223146	1	HOSE 300 8 98.0 0J
2	4143971	1	HOSE 2000 8 20.0 0J 0J
1	6946332	2	HOSE 2750 4 22.0 0J 90J

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- TOLERANCES ON: ANGLES ±1°; FRACTIONS ±1/16; XX DECIMAL ±.03; XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 427-7485

DWN	twillis	10-19-2012
CHK	JBD	2-4-2013
ENGR		
PROD ENGR	JBD	2-4-2013
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HOSE HYD RESERVOIR L1350 G2

SIZE E | DO O S LE | DWG NO 4280202 | REV 00

SCALE 1/8 | WEIGHT 35.0 lbm | SHEET 1 OF 1

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HYDRAULIC RESERVOIR HOSE GROUP

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HYDRAULIC RESERVOIR HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280202		HYDRAULIC RESERVOIR HOSE GROUP		
1	R6946332	3	· HOSE ASSEMBLY, #4 X 22"		
2	R4143971	1	· HOSE ASSEMBLY, #8 X 20"		
3	R4223146	1	· HOSE ASSEMBLY, #8 X 98"		
4	R4082839	1	· HOSE ASSEMBLY, #16 X 26"		
5	R4213537	1	· HOSE ASSEMBLY, #16 X 80"		
			DRAWING, HYDRAULIC RESERVOIR HOSE GROUP (R428020200)		

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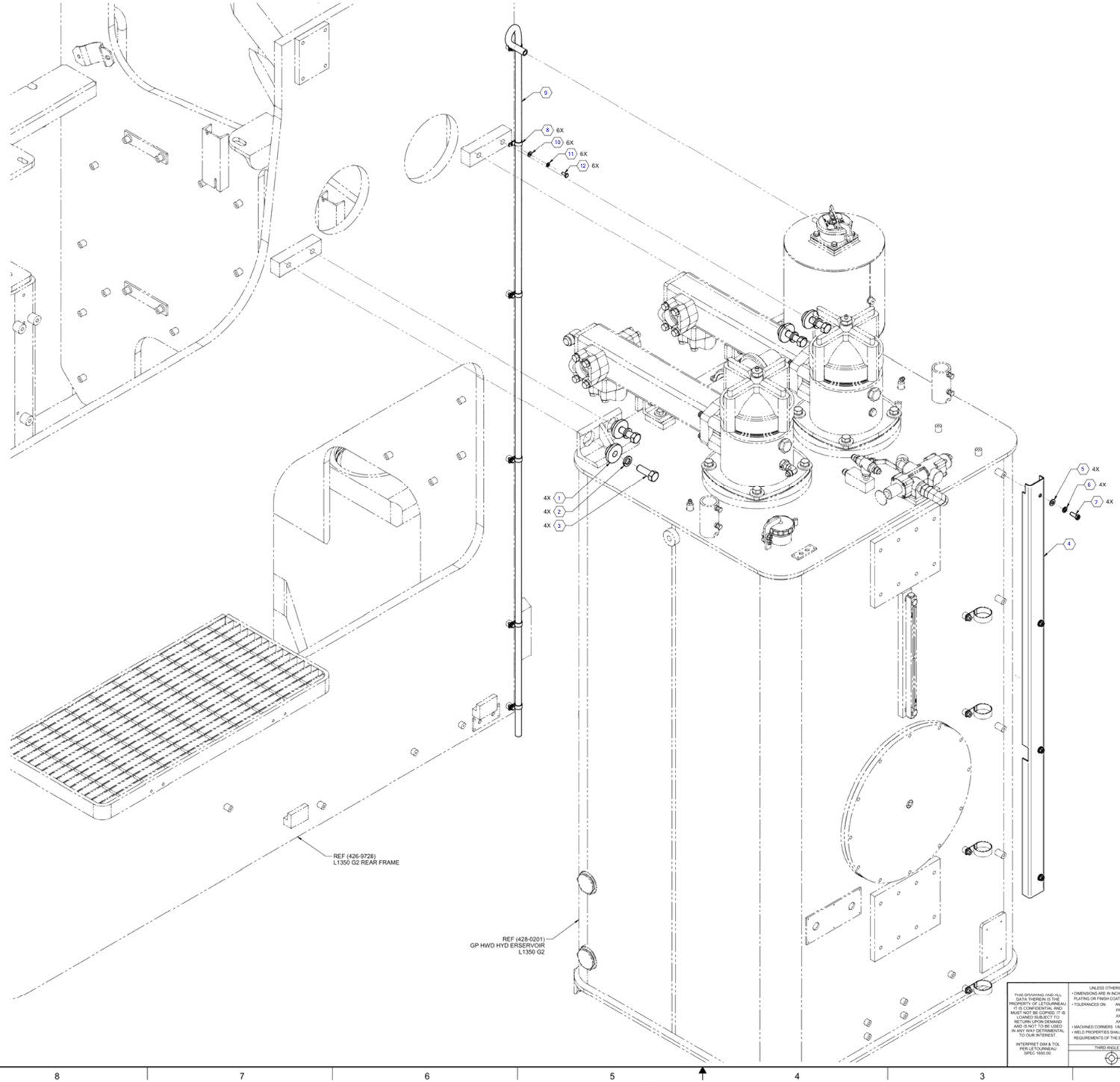
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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HYDRAULIC RESERVOIR INSTALLATION HARDWARE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHG	CHK
	00	RELEASE	NL13-1602	2-4	TEW	JBD	JBD



ITEM	PART NO.	QTY	DESCRIPTION
12	0812278	6	BOLT HEX .250 .63 NC G8 FT
11	0213584	6	WASHER LOCK SPR .25 .49 .06
10	4010923	6	WASHER FLAT .250 .63 .08
9	4275763	1	HOSE .300 8 120.0
8	0989003	6	CLAMP CABLE INSL .750 .281
7	0810971	4	BOLT HX .375 1.00 NC G8 FT
6	0753123	4	WASHER LOCK SPR .375 .68 .09
5	0808221	4	WASHER FLAT .375 .81 .08
4	4116587	1	COVER HOSE HYD TANK
3	4009525	4	BOLT HX .750 2.250 NC G8
2	0021542	4	WASHER LOCK SPR .750 1.27 .19
1	4105811	4	BUSHING 2-3/8

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- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, XX DECIMAL ±.03, XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

DWN	twillis	11-13-12
CHK	JBD	2-4-13
ENGR		
PROD ENGR	JBD	2-4-13
PROJ APPROVAL		
MATL		

LeTourneau

GP HW HYD RES INSTL L1350 G2

SIZE E | DO NOT SCALE | DWG NO 4280207 | REV 00

SCALE 1/4 | WT 21.6 lbm | SHEET 1 OF 1

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HYDRAULIC RESERVOIR INSTALLATION HARDWARE GROUP

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HYDRAULIC RESERVOIR INSTALLATION HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280207		HYDRAULIC RESERVOIR INSTALLATION HARDWARE GROUP		
1	R4105811	4	· BUSHING, 2-3/8" O.D.		
2	R0021542	4	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
3	R4009525	4	· BOLT, 3/4"-10 X 2-1/4"		
4	R4116587	1	· HOSE COVER, 2-1/2" X 60"		
5	R0808221	4	· FLATWASHER, 3/8"		
6	R0753123	4	· LOCKWASHER, 3/8"		
7	R0810971	4	· BOLT, 3/8"-16 X 1"		
8	R0989003	6	· CLAMP, CABLE - INSULATED, 3/4"		
9	R4275763	1	· HOSE, #8 X 120"		
10	R4010923	6	· FLATWASHER, 1/4"		
11	R0213584	6	· LOCKWASHER, 1/4"		
12	R0812278	6	· BOLT, 1/4"-20 X 5/8"		
			DRAWING, HYDRAULIC RESERVOIR INSTALLATION HARDWARE GROUP (R428020700)		

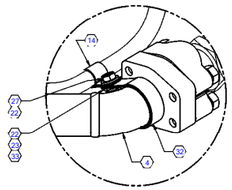
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

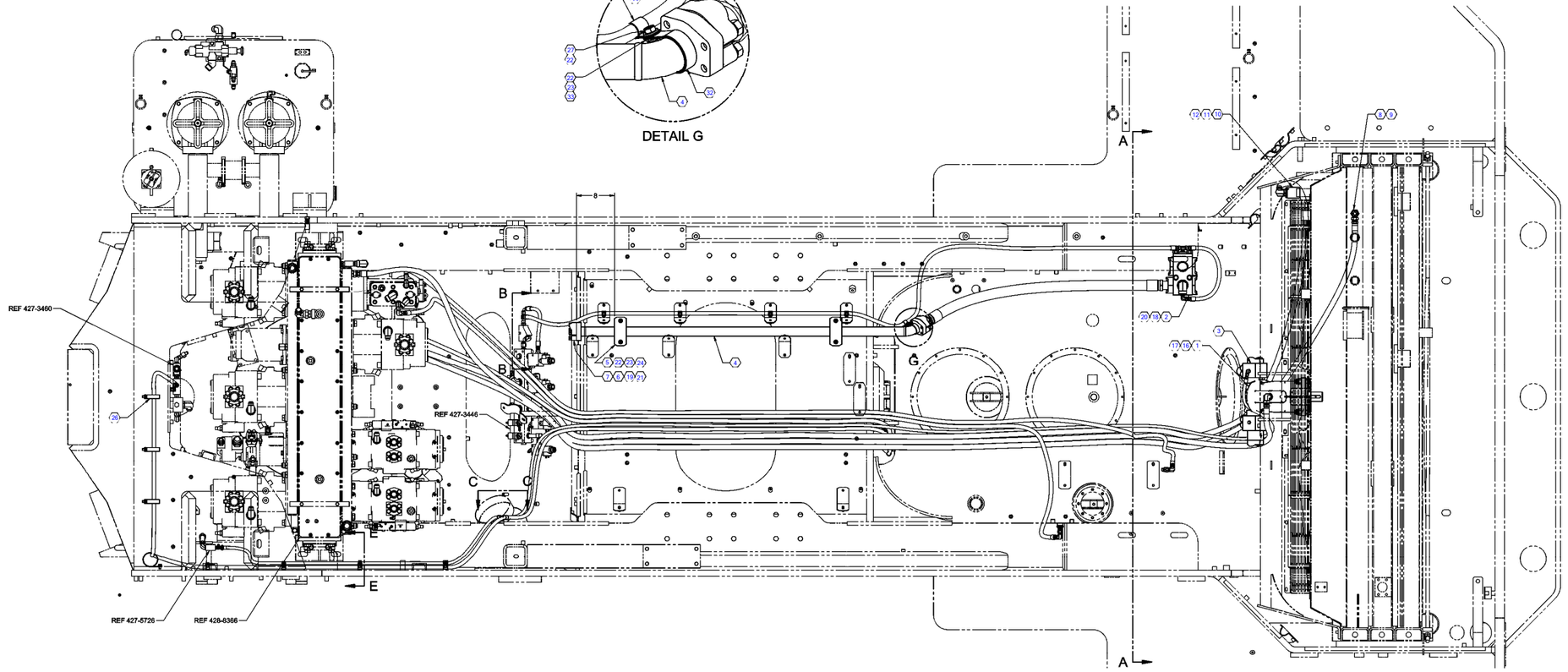
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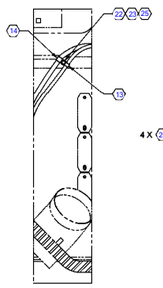
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UNDER POWER UNIT HARDWARE GROUP

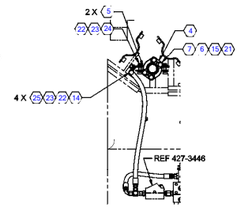


DETAIL G

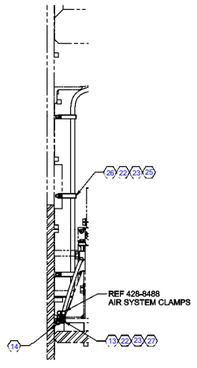




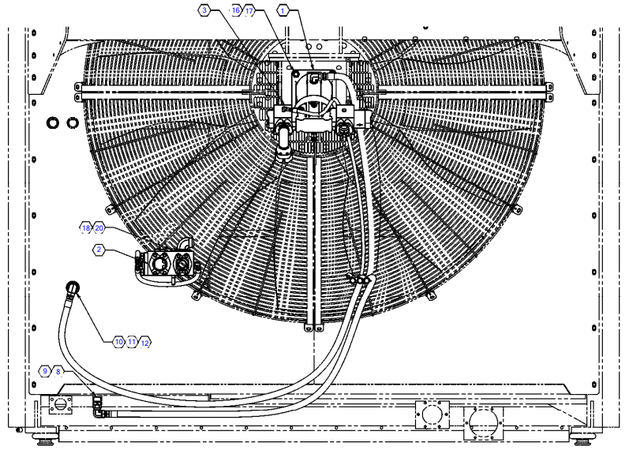
SECTION C-C



SECTION B-B



SECTION E-E



SECTION A-A
REAR FRAME NOT SHOWN FOR CLARITY

REF 428-9632 GP HOSE UNDER PWR UNIT L1250 G3
FOR STANDARD HOSE INSTALLATION

REF 428-8414 GP HSEM UNDER PWR UNIT L1250 G3
FOR MDG-41 SPEC HOSE INSTALLATION

REF 428-4690 REF FLUID PWR DIA L1250 G3
FOR OTHER L1250 G3 FLUID POWER GROUPS

ITEM	PART NO.	QTY	DESCRIPTION
33	0812921	1	NUT HX 0.375-16UNC-2B G8 PL
32	4014475	1	CLAMP CABLE INSL 2.00 .406
31	4264802	1	FTG HYD 0 8 MJ 14 MMO
30	4002479	2	HYD FITTING, 90-DEG 8 MJ 8 FJ
29	4018666	1	FTG HYD 0 8 MJ 8 MP JUMP
28	4243560	1	FTG HYD 0 8 FP X 30 MM MOD
27	0810971	4	BOLT HX .375-1.000 NC G8 FT
26	4065748	6	CLAMP CABLE INSL 3.00 .406

ITEM	PART NO.	QTY	DESCRIPTION
25	0810970	14	BOLT HX .375 .750 NC G8 FT
24	0808476	4	BOLT HX .375 1.250 NC G8
23	0753123	22	WASHER LOCK SPR .375 .68 .09
22	0808221	23	WASHER FLAT .375 .81 .08
21	0827222	8	BOLT HX .500 2.000 NC G8
20	4009760	2	BOLT HX .500 6.000 NC G8
19	4210349	8	WASHER FLAT .531 .750 .125
18	0810991	2	WASHER FLAT .531 1.062 .121
17	4016018	4	NUT LOCK NYL INS .750 NC
16	0021647	4	BOLT HX .750 2.750 NC G8 FT
15	0986143	1	CLAMP CABLE INSL 1.00 .406
14	4274399	12	CLAMP CABLE INSL .75 .406
13	4086112	4	CLAMP CABLE INSL .63 .40
12	0964170	1	FTG HYD 90 12 MJ 16 MP
11	4013782	1	PIPE BUSHING REDUCING
10	4012925	1	COUPLING PIPE 3000 LB
9	4002481	1	FTG HYD 90 12 MJ 12 FJ SWVL
8	4040561	1	FTG HYD 0 12 MJ 16 MP
7	4186401	4	FLANGE HALF 1.50 FORGED C61
6	4068358	2	O-RING, 1-1/2 SAE SPLIT FLANGE
5	4237810	2	CLAMP HALF 2.50
4	4238015	1	STR 1.50 HYD PIPE SAE FLANGE
3	4278380	1	GP MANIFOLD MTR SERVICE PORT
2	4270969	1	ASSY OIL COOLER VALVE
1	4237906	1	MTR-PSTN-180CM* (10.98 IN²) BI

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1660.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-9823

DWN	rhyatt	1-16-17
CHK	EER	1-16-17
ENGR	EER	1-16-17
PROD ENGR		
PROJ APPROVAL	JBD	1-16-17
MATL		

JOYGLOBAL

GP HDW UNDER PWR UNIT L1250 G3

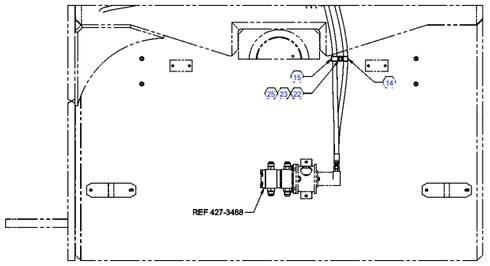
SIZE E | DO NOT SCALE | DWG NO. 4289631 | REV 02

SCALE 1:8 | WT/WT 283.9 lbm | SHEET 1 OF 3

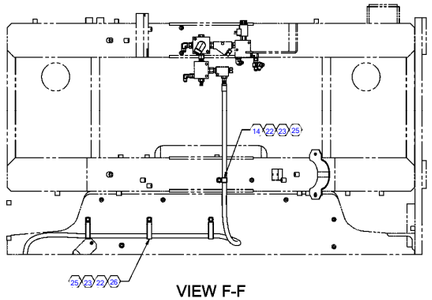
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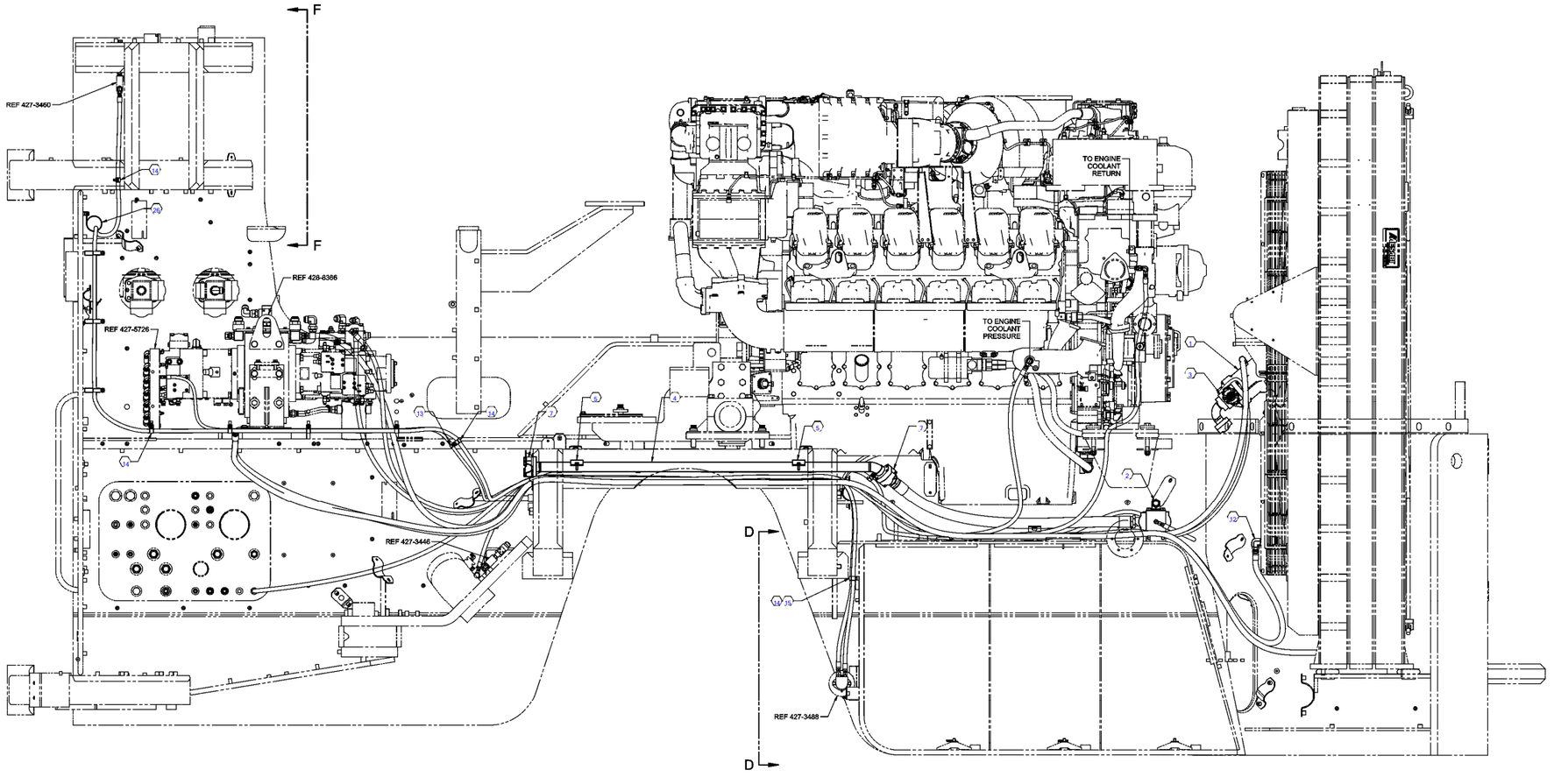
UNDER POWER UNIT HARDWARE GROUP



SECTION D-D



VIEW F-F



GP HDW UNDER PWR UNIT L1250 QS

drawn ffywtE

date 1-16-17

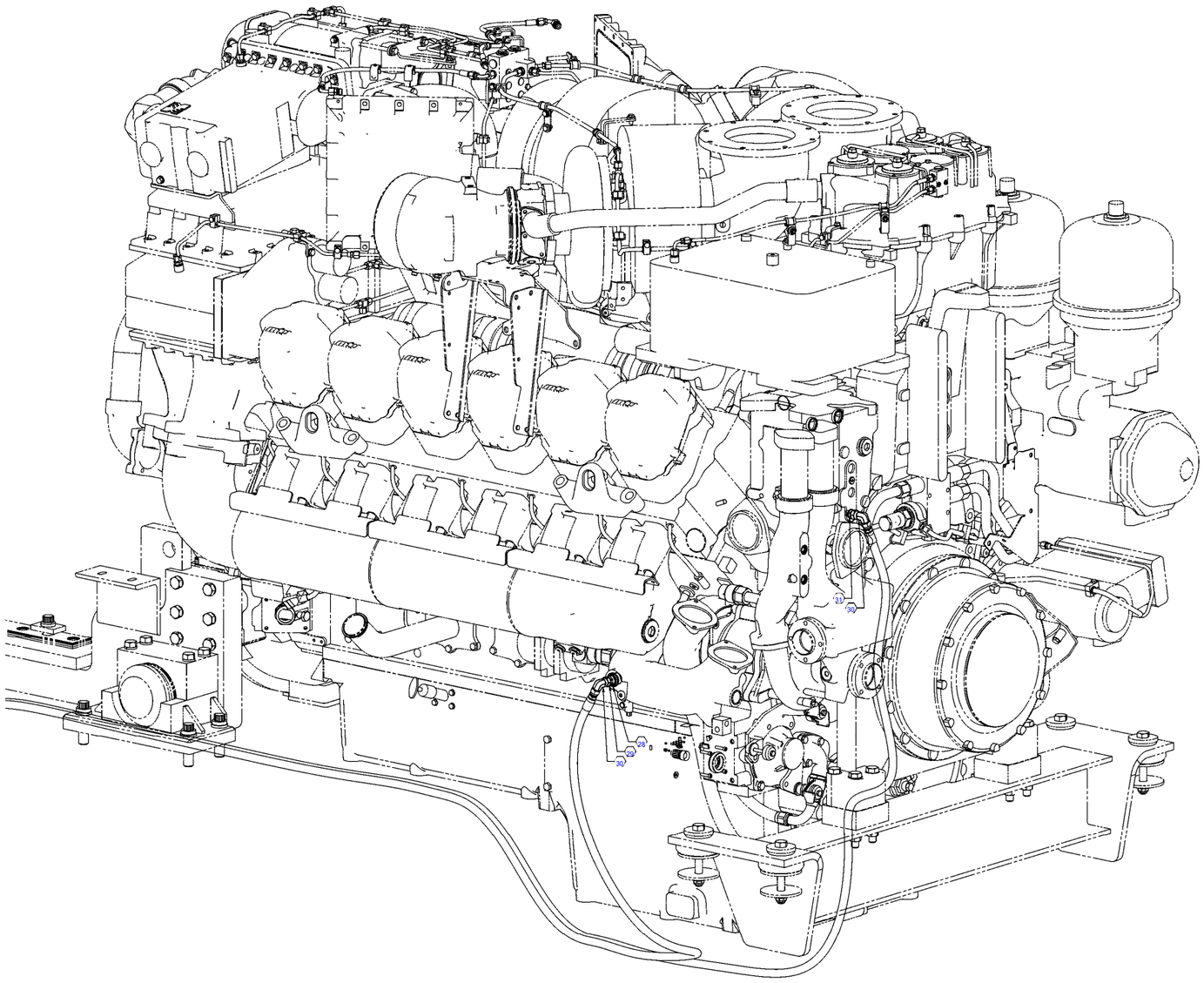
SIZE E | DO NOT SCALE | DWG NO. 4289631 | REV 02

SCALE 1:8 | WT 283.9 lbm | SHEET 2 OF 3

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UNDER POWER UNIT HARDWARE GROUP



ENGINE CONNECTIONS
SCALE 1:4

QP HDW UNDER PWR UNIT L1250 QR					
DRAWN RYANT	SIZE E	DO NOT SCALE	DRAWING NO. 4289631	REV 02	
APPROVED 1-10-17	SCALE 1:8	WEIGHT 283.9 lbm	SHEET 3 OF 3		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289631		UNDER POWER UNIT HARDWARE GROUP		
1	R4237906	1	· MOTOR, FAN		
	R4241079	1	· · SEAL KIT		
2	R4270959	1	· OIL COOLER VALVE ASSEMBLY (PAGE 8.79-8.79A)		
3	R4278380	1	· FAN MOTOR MANIFOLD GROUP (PAGE 8.50-8.50A)		
4	R4238015	1	· PIPE STRUCTURE, 1-1/2"		
5	R4237810	2	· CLAMP HALF, 2-1/2"		
6	R4068358	2	· O-RING, 1-7/8" I.D. - POLYURETHANE		
7	R4186401	4	· FLANGE HALF, 1-1/2"		
8	R4040561	1	· ADAPTER, 1" MP X #12 MJ		
9	R4002481	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
10	R4012925	1	· COUPLING, PIPE - 1-1/4"		
11	R4013782	1	· REDUCER, 1" FP X 1-1/4" MP		
12	R6964170	1	· ELBOW, 1" MP X 90 deg. X #12 MJ		
13	R4086112	4	· CLAMP, CABLE - INSULATED, 5/8"		
14	R4274399	12	· CLAMP, CABLE - INSULATED, 3/4"		
15	R0986143	1	· CLAMP, CABLE - INSULATED, 1"		
16	R0021647	4	· BOLT, 3/4"-10 X 2-3/4"		
17	R4016018	4	· LOCKNUT, 3/4"-10 - NYLON		
18	R0810991	2	· FLATWASHER, 1/2" X 1" X 1/8"		
19	R4210349	8	· FLATWASHER, 1/2" - HARDENED		
20	R4009760	2	· BOLT, 1/2"-13 X 6"		
21	R0827222	8	· BOLT, 1/2"-13 X 2"		
22	R0808221	23	· FLATWASHER, 3/8"		
23	R0753123	22	· LOCKWASHER, 3/8"		
24	R0808476	4	· BOLT, 3/8"-16 X 1-1/4"		
25	R0810970	14	· BOLT, 3/8"-16 X 3/4"		
26	R4065748	6	· CLAMP, CABLE - 3"		
27	R0810971	4	· BOLT, 3/8"-16 X 1"		
28	R4243560	1	· ADAPTER, 1/2" FP X 30MM		
29	R4018666	1	· ADAPTER, 1/2" MP X #8 MJ		
30	R4002479	2	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
31	R4264802	1	· ADAPTER, #14 MO X #8 MJ		
32	R4014475	1	· CLAMP, CABLE - INSULATED, 2"		
33	R0812921	1	· NUT, 3/8"-16		
			DRAWING, UNDER POWER UNIT HARDWARE GROUP (R428963102)		

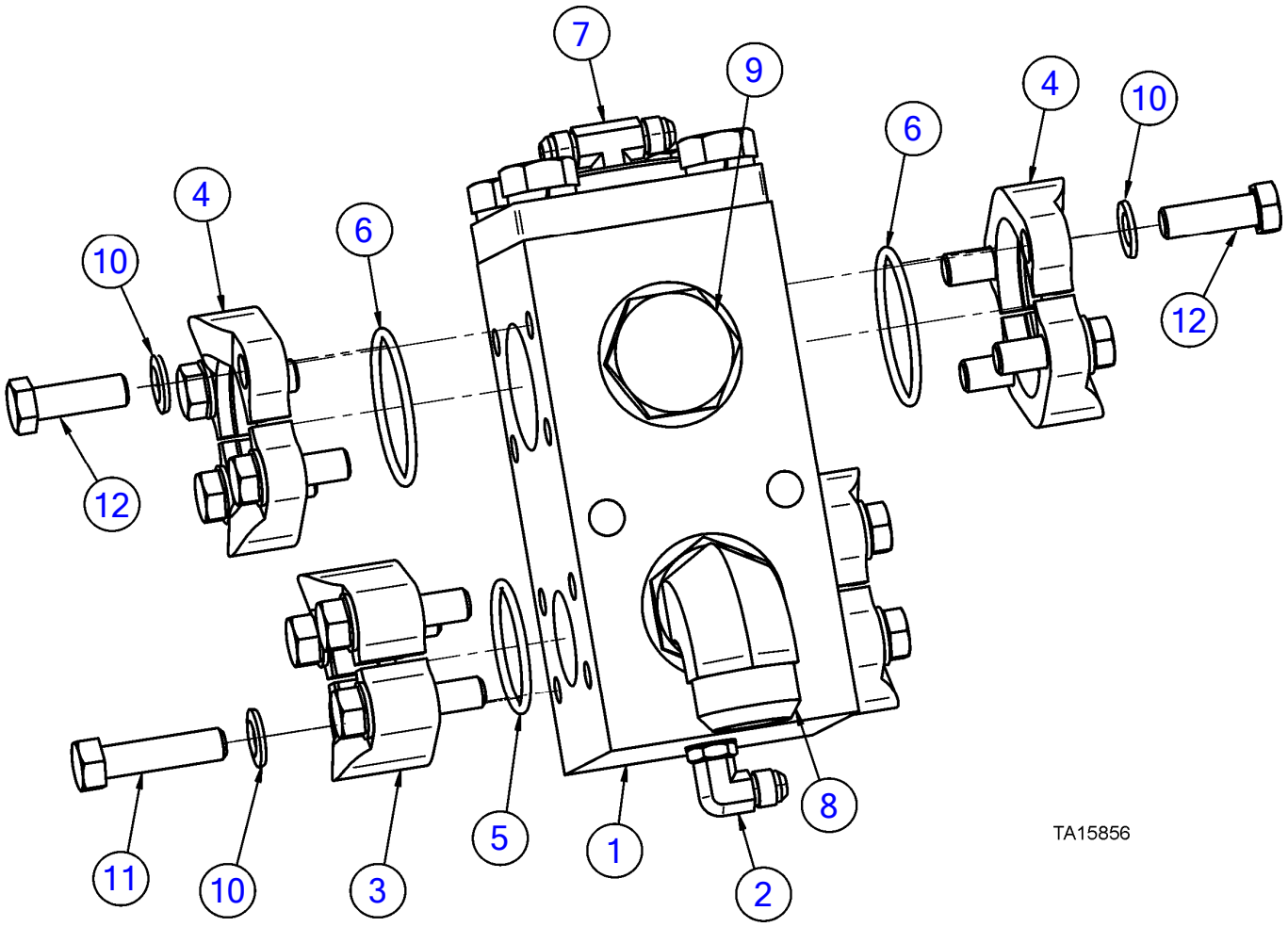
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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OIL COOLER VALVE ASSEMBLY



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OIL COOLER VALVE ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4270959		OIL COOLER VALVE ASSEMBLY		
1	R4277635	1	· OIL COOLER VALVE ASSEMBLY (PAGE 8.5-8.5A)		
2	R4248951	1	· ELBOW WITH .062" ORIFICE ASSEMBLY, #6 MO X 90 deg. X #6 MJ		
3	R4186401	2	· FLANGE HALF, 1-1/2"		
4	R4223453	6	· FLANGE HALF, 2"		
5	R4068358	1	· O-RING, 1-7/8" I.D. - POLYURETHANE		
6	R4071255	3	· O-RING, 2-1/4" I.D. - POLYURETHANE		
7	R4043032	1	· TEE, #6 MJ X #6 MO X #6 MJ		
8	R4002476	1	· ELBOW, #20 MO X 90 deg. X #20 MJ		
9	R4077099	1	· PLUG, 1-1/4" MO		
10	R4210349	16	· FLATWASHER, 1/2" - HARDENED		
11	R0827222	4	· BOLT, 1/2"-13 X 2"		
12	R4009753	12	· BOLT, 1/2"-13 X 1-1/2"		
			DRAWING, OIL COOLER VALVE ASSEMBLY (R427095901)		

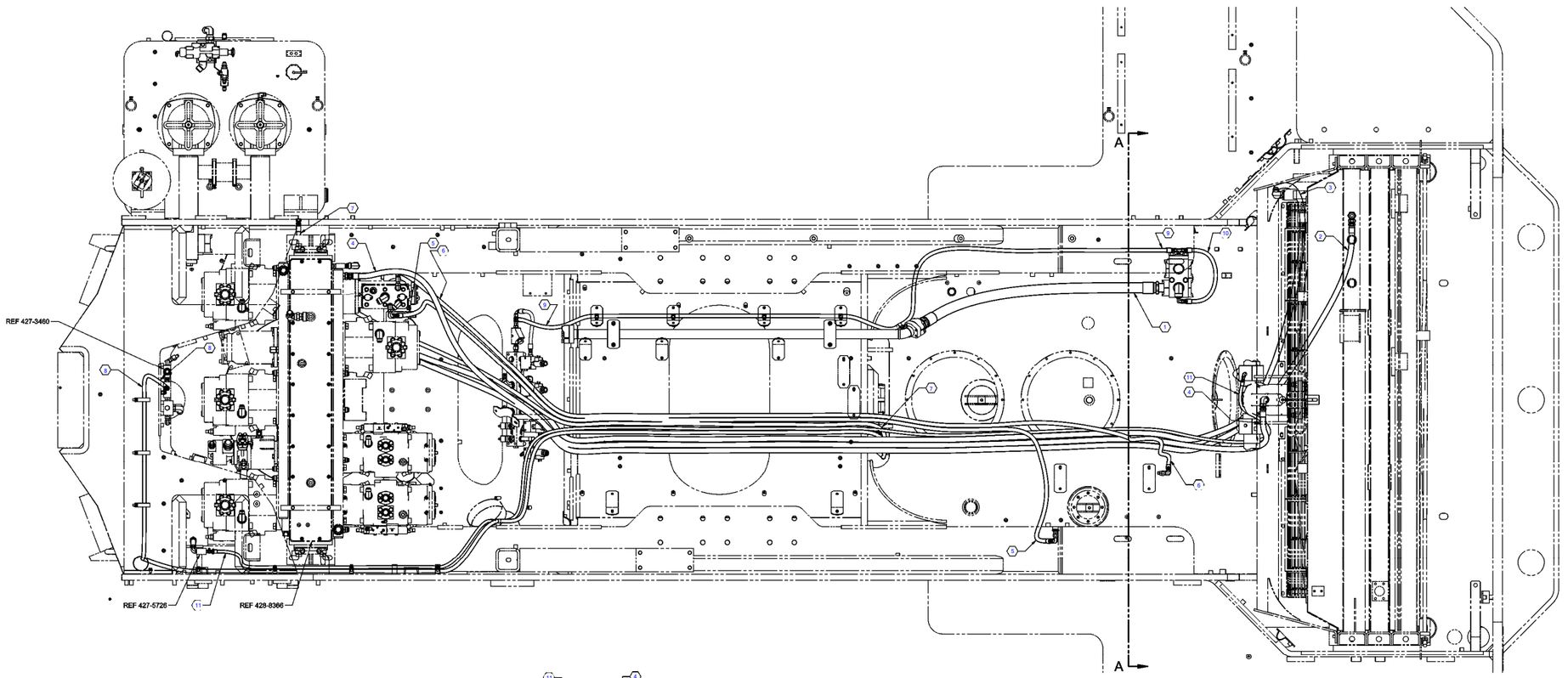
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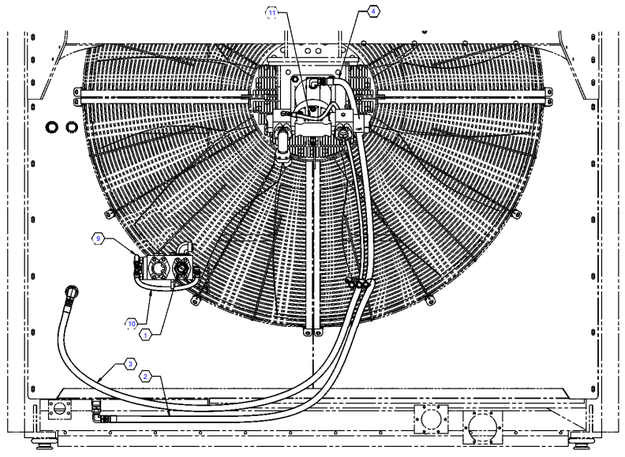
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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UNDER POWER UNIT HOSE GROUP





SECTION A-A
REAR FRAME NOT SHOWN FOR CLARITY

REF 428-9531 GP HDW UNDER PWR UNIT L1250 G3
FOR HARDWARE INSTALLATION

REF 428-8414 GP HSEM UNDER PWR UNIT L1250 G3
FOR MDG-41 SPEC HOSE INSTALLATION

REF 428-4690 REF FLUID PWR DIA L1250 G3
FOR OTHER L1250 G3 FLUID POWER GROUPS

ITEM	PART NO.	QTY	DESCRIPTION
11	6982885	1	HOSE 5000 4 290.0 0J 0J
10	4129106	1	HOSE 4000 6 24.0 0J 0J
9	4143899	1	HOSE 4000 6 168.0 0J 0J
8	4288522	1	HOSE 4000 6 330.0 0J 0J
7	6946041	1	HOSE 2000 8 190.0 0J 0J
6	4116615	1	HOSE 2000 8 213.0 0J 0J
5	4119112	1	HOSE 2000 8 254.0 0J 0J
4	4222465	1	HOSE 1250 12 264.0 0J 0J
3	4288423	1	HOSE 1250 12 306.0 0J 90J
2	4186143	1	HOSE 1250 12 306.0 0J 90J
1	4292287	1	HOSE 2500 24 57.5 0F 0F

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 16500.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-9623

DWN	rhyatt	1-16-17
CHK	EER	1-19-17
ENGR	EER	1-19-17
PROD ENGR		
PROJ APPROVAL	JBD	1-16-17
MATL		

JOYGLOBAL

GP HOSE UNDER PWR UNIT L1250 G3

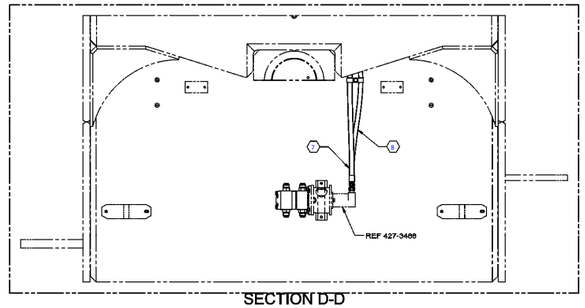
SIZE E | DO NOT SCALE | DWG NO. 4289632 | REV 02

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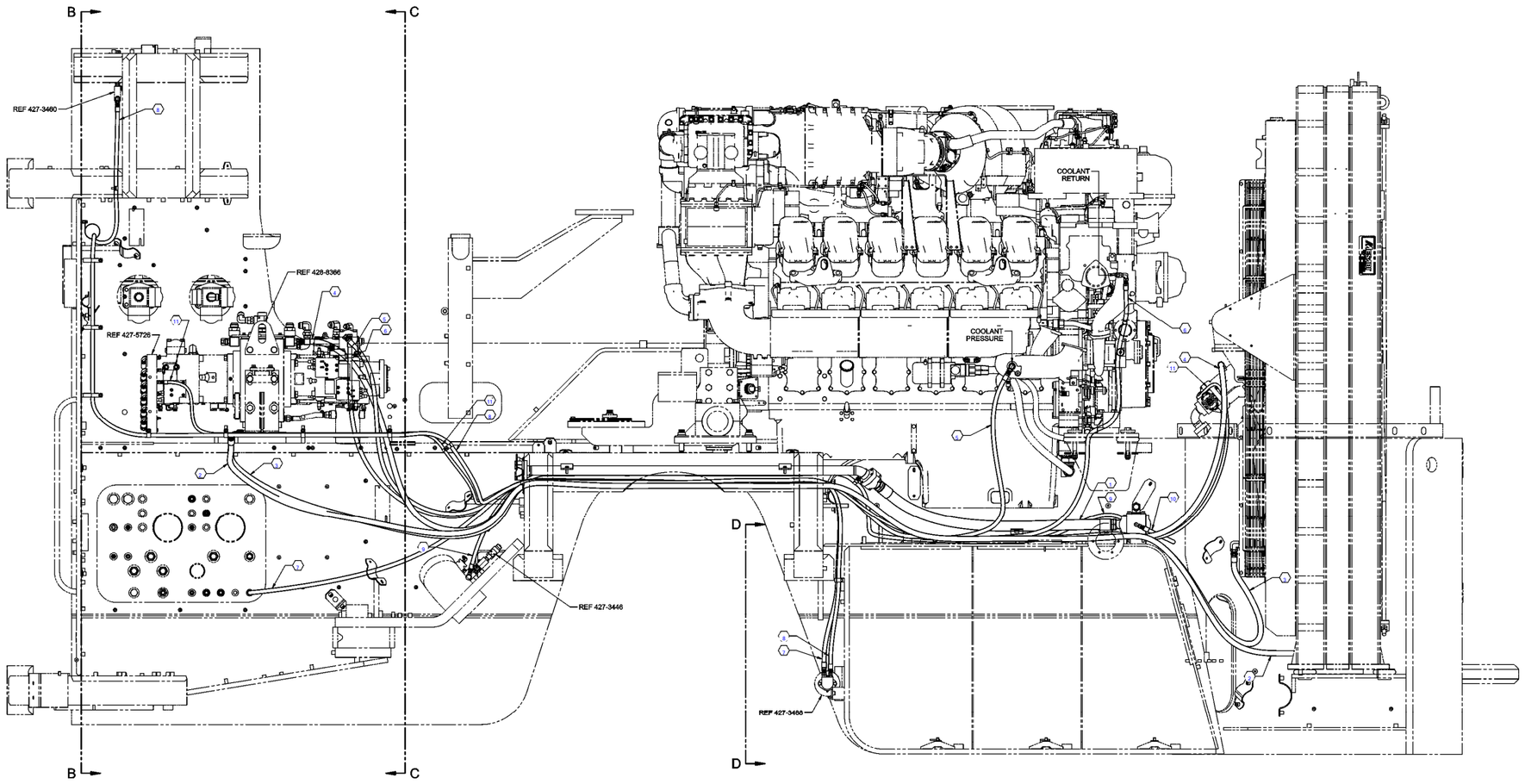
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UNDER POWER UNIT HOSE GROUP



SECTION D-D



8	7	6	5	4	3	2	1	

GP HOSE UNDER PWR UNIT L1250 G3

drawn: PlyeE

issued: 1-16-17

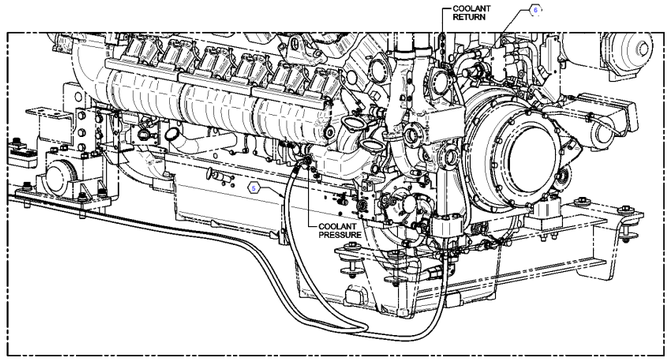
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SCALE 1:8 WT 47.2 lbm SHEET 2 OF 3

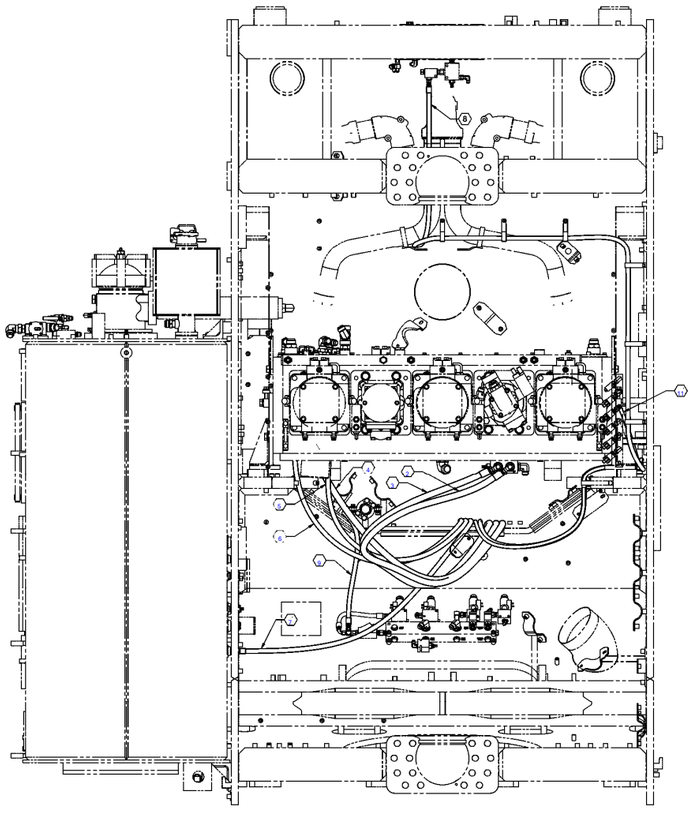
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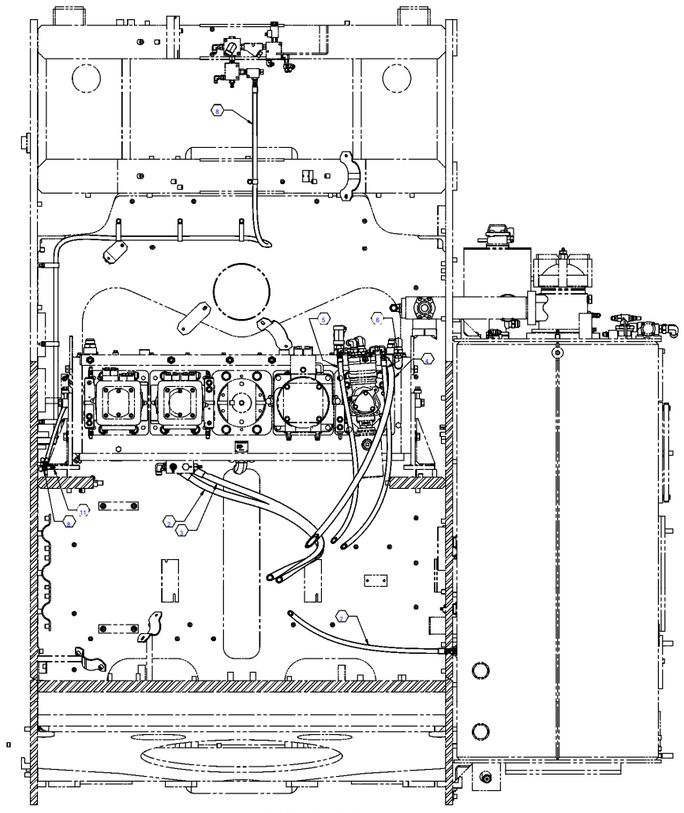
UNDER POWER UNIT HOSE GROUP



ENGINE CONNECTIONS



SECTION B-B



SECTION C-C

QP HOSE UNDER PWR UNIT L1250 G3

drawn myatt	SIZE E	DO NOT SCALE	DWG NO. 4289632	REV 02
issued 1-16-17	SCALE 1:8	WT 47.2 lbm	SHEET 3 OF 3	

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UNDER POWER UNIT HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289632		UNDER POWER UNIT HOSE GROUP		
1	R4292287	1	· HOSE ASSEMBLY, #24 X 57-1/2"		
2	R4186143	1	· HOSE ASSEMBLY, #12 X 300"		
3	R4288423	1	· HOSE ASSEMBLY, #12 X 306"		
4	R4222465	1	· HOSE ASSEMBLY, #12 X 264"		
5	R4119112	1	· HOSE ASSEMBLY, #8 X 254"		
6	R4116615	1	· HOSE ASSEMBLY, #8 X 213"		
7	R6946041	1	· HOSE ASSEMBLY, #8 X 190"		
8	R4288522	1	· HOSE ASSEMBLY, #6 X 330"		
9	R4143899	1	· HOSE ASSEMBLY, #6 X 168"		
10	R4129106	1	· HOSE ASSEMBLY, #6 X 24"		
11	R6982885	1	· HOSE ASSEMBLY, #4 X 290"		
			DRAWING, UNDER POWER UNIT HOSE GROUP (R428963202)		

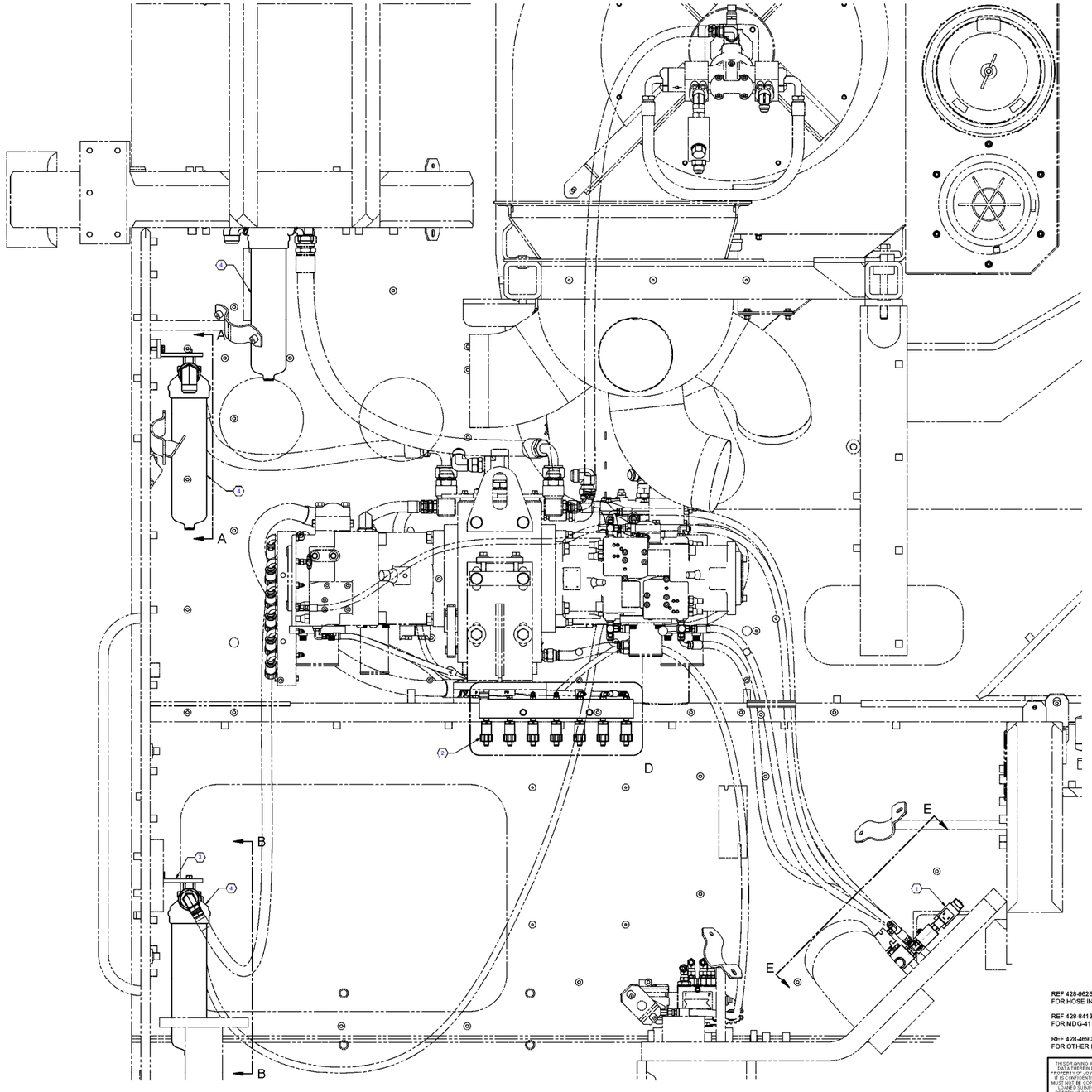
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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HYDRAULIC PUMP INSTALLATION HARDWARE GROUP



REF 429-9626 GP HOSE HYD PUMP INST L1250 G3
FOR HOSE INSTALLATION

REF 428-6413 GP HSEM HYD PUMP INST L1250 G3
FOR MDG-41 HOSE INSTALLATION

REF 428-4690 REF FLUID POWER DIA L1250 G3
FOR OTHER L1250 G3 FLUID POWER GROUPS

ITEM	PART NO	QTY	DESCRIPTION
17	0808476	6	BOLT HX .375 1.250 NC G8
16	4009641	2	BOLT HX .375 2.000 NC G8
15	4009843	4	BOLT HX .375 2.500 NC G8
14	0753123	12	WASHER LOCK SPR .375 .68 .09
13	0808221	6	WASHER FLAT .375 .81 .08
12	0836039	6	BOLT HX .375 1.000 NF G8
11	0264174	6	WASHER LOCK SPR .323 .59 .08
10	4002476	4	FTG HYD 90 20 MJ 20 MO
9	4013779	1	PIPE PLUG 1/4 NPT HEX HEAD
8	4002438	1	FTG HYD 90 6 MJ 4 MP
7	4244689	1	FTG HYD 90 12 MJ 12 FJ MOD
6	4002481	1	FTG HYD 90 12 MJ 12 FJ SWVL
5	4074094	2	FTG HYD 0 12 MJ 20 MO JUMP
4	4291708	3	FILTER LOW PRESSURE
3	4238033	3	STR FILTER MOUNT
2	4270954	1	ASSY PUMP PRESS TRANSDUCER
1	4273362	1	ASSY MANIFOLD L1350 G2

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INTERPRET DIM & TOL PER LET OUR NEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- YIELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON CONTRACT NO
428-9623

		DATE
DWN	rhyatt	1-10-17
CHK	EER	1-10-17
ENGR	EER	1-10-17
PROD ENGR		
PROJ APPROVAL	JBD	1-10-17
MATL		

JOYGLOBAL

GP HDW HYD PUMP INST L1250 G3

SIZE	DWG NO	REV
E	4289625	02

DO NOT SCALE

SCALE 1:4 | WT/FT 81.8 lbm | SHEET 1 OF 3

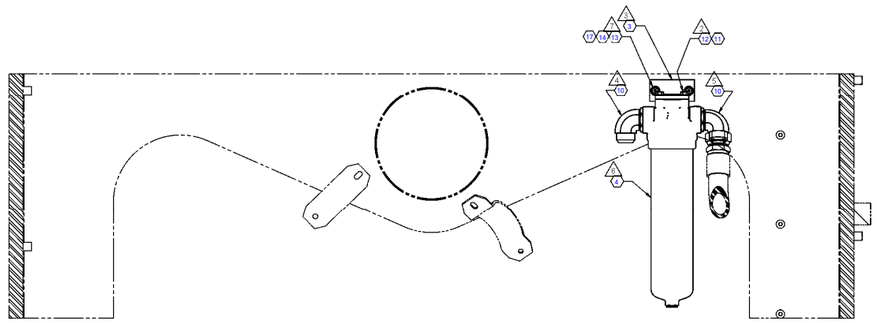
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8.81A.1|R4289625

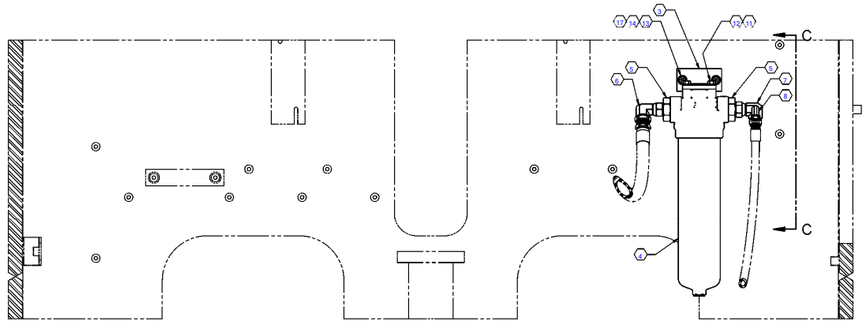
HYDRAULIC PUMP INSTALLATION HARDWARE GROUP

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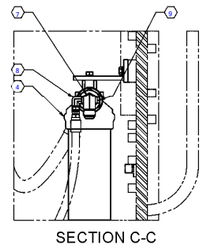
HYDRAULIC PUMP INSTALLATION HARDWARE GROUP



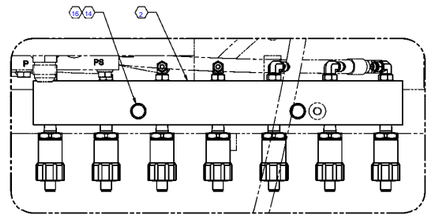
SECTION A-A



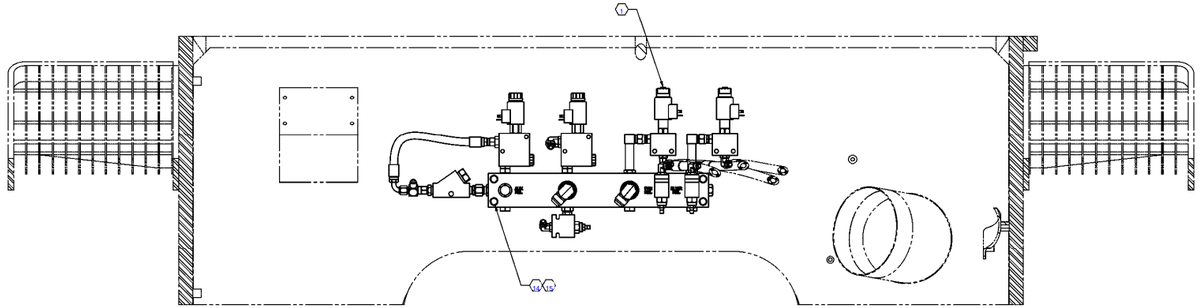
SECTION B-B



SECTION C-C



DETAIL D



SECTION E-E

GP HDW HYD PUMP INST L1250 G3

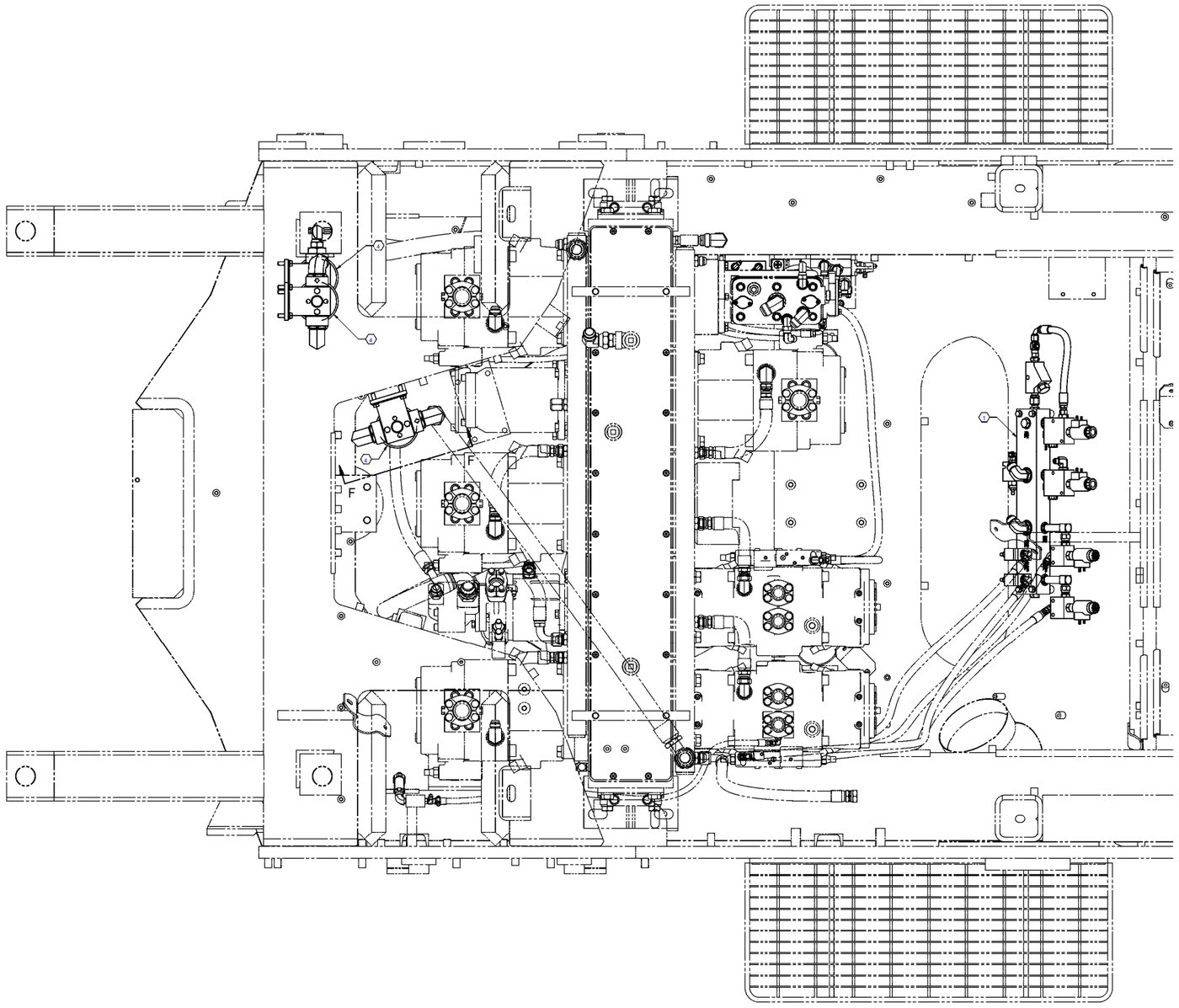
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APVD 1-10-17	SCALE 1:4	WEIGHT 81.8 lbs	SHEET 2 OF 3	

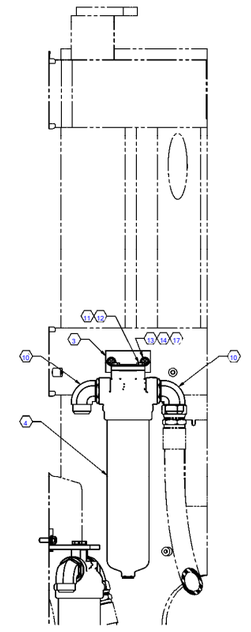
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HYDRAULIC PUMP INSTALLATION HARDWARE GROUP





SECTION F-F

GP HDW HYD PUMP INST L1250 G3

DRAWN	Rydell	SIZE	DO NOT SCALE	DWG NO.	4289625	REV 02
APVD	1-10-17	SCALE 1:1	WT/WT 81.8 lbm	SHEET 3 OF 3		

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HYDRAULIC PUMP INSTALLATION HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289625		HYDRAULIC PUMP INSTALLATION HARDWARE GROUP		
1	R4273362	1	· PROPORTIONAL AND RELIEF MANIFOLD ASSEMBLY (PAGE 8.7-8.7A)		
2	R4270954	1	· PUMP PRESSURE TRANSDUCER ASSEMBLY (PAGE 8.82-8.82A)		
3	R4238033	3	· MOUNT STRUCTURE, FILTER		
4	R4291708	3	· FILTER ASSEMBLY, LOW PRESSURE		
	R4244991	3	· · ELEMENT, FILTER		
	R4291750	3	· · SEAL KIT		
5	R4074094	2	· ADAPTER STRUCTURE, #20 MO X #12 MJ		
6	R4002481	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
7	R4244689	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ		
8	R4002438	1	· ELBOW, 1/4" MP X 90 deg. X #6 MJ		
9	R4013779	1	· PLUG, PIPE - 1/4", HEX HD.		
10	R4002476	4	· ELBOW, #20 MO X 90 deg. X #20 MJ		
11	R0264174	6	· LOCKWASHER, 5/16"		
12	R0836039	6	· BOLT, 3/8"-24 X 1"		
13	R0808221	6	· FLATWASHER, 3/8"		
14	R0753123	12	· LOCKWASHER, 3/8"		
15	R4009643	4	· BOLT, 3/8"-16 X 2-1/2"		
16	R4009641	2	· BOLT, 3/8"-16 X 2"		
17	R0808476	6	· BOLT, 3/8"-16 X 1-1/4"		
			DRAWING, HYDRAULIC PUMP INSTALLATION HARDWARE GROUP (R428962502)		

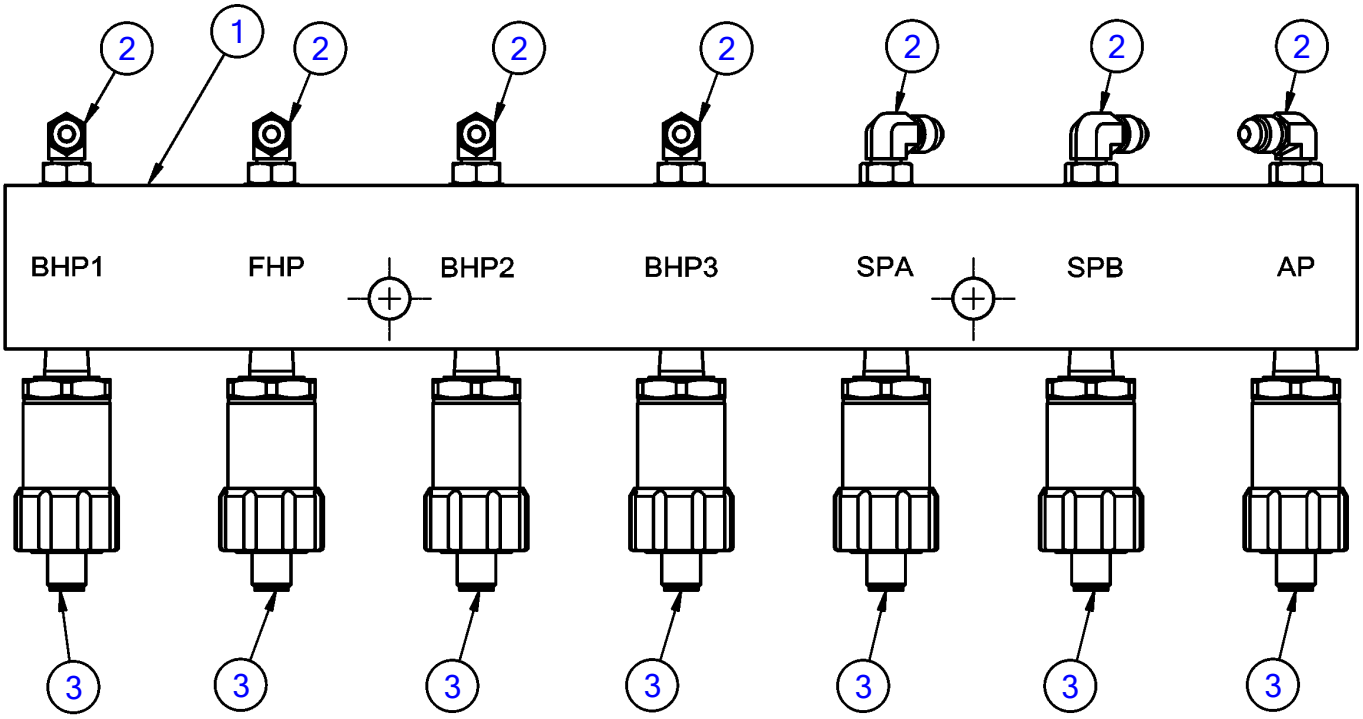
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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PUMP PRESSURE TRANSDUCER ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4270954		PUMP PRESSURE TRANSDUCER ASSEMBLY		
1	R4241115	1	· MANIFOLD HOUSING		
2	R4014581	7	· ELBOW, #4 MO X 90 deg. X #4 MJ - ADJ.		
3	R4255491	7	· TRANSMITTER, PRESSURE - 0-5000 PSI		
			DRAWING, PUMP PRESSURE TRANSDUCER ASSEMBLY (R427095401)		

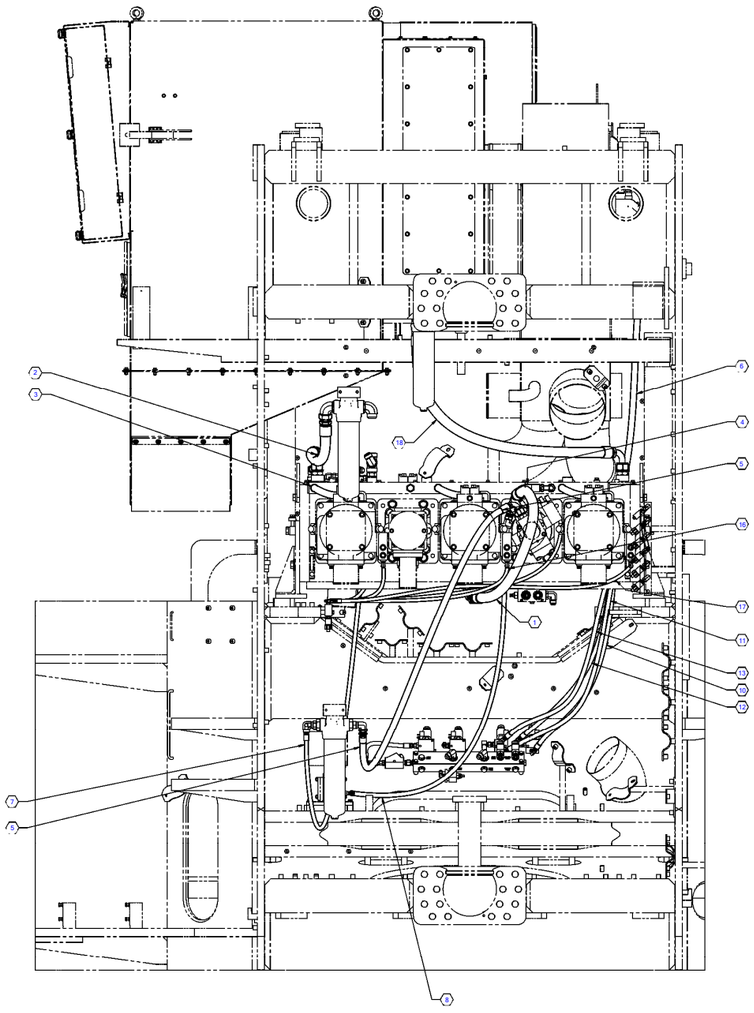
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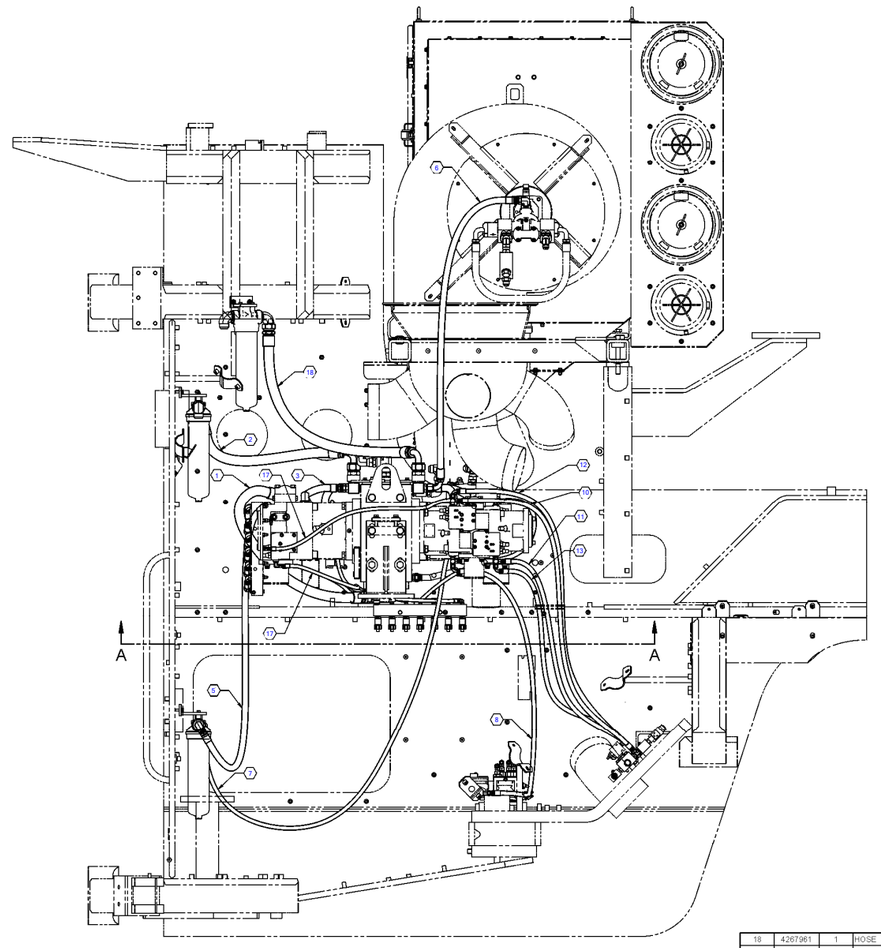
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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HYDRAULIC PUMP INSTALLATION HOSE GROUP





ITEM	PART NO.	QTY	DESCRIPTION
18	4267961	1	HOSE .625 20 62.0 0J 90J
17	4150730	2	HOSE 5000 4 65.0 0J 0J
16	4150726	1	HOSE 5000 4 45.0 0J 0J
15	4193525	1	HOSE 5000 4 33.0 0J 0J
14	4143887	1	HOSE 5000 4 20.0 0J 0J
13	4243742	1	HOSE 4000 6 78.0 0J 90J
12	4141624	1	HOSE 4000 6 90.0 0J 90J
11	4155731	1	HOSE 4000 6 82.0 0J 0J
10	4156395	1	HOSE 4000 6 90.0 0J 0J
9	4129107	1	HOSE 4000 6 26.0 0J 0J
8	4223480	1	HOSE 4000 8 72.0 0J 90J
7	4223309	1	HOSE 2250 6 90.0 0J 90J
6	4222463	1	HOSE 1250 12 60.0 0J 90J
5	4186071	1	HOSE 1250 12 82.0 0J 90J
4	4267509	1	HOSE 300 12 11.0 0J 90J SP
3	4244950	6	HOSE 300 12 13.0 0J 0J SP
2	4223489	1	HOSE .625 20 36.0 0J 90J
1	4243736	1	HOSE .625 20 44.0 0J 90J

REF 428-9625 GP HDW HYD PUMP INST L1250 G3
FOR HARDWARE INSTALLATION

REF 428-8413 GP HSEM HYD PUMP INST L1250 G3
FOR MDG-41 HOSE INSTALLATION

REF 428-4690 REF FLUID POWER DIA L1250 G3
FOR OTHER L1250 G3 FLUID POWER GROUPS

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INTERPRET DIM & TOL PER LET DURNEAU SPEC 1600.00

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
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- TOLERANCED ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.02 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- YIELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 RA OR BETTER

FIRST USED ON CONTRACT NO: 428-9623

		DATE
DWN	rhyatt	1-11-17
CHK	EER	1-11-17
ENGR	EER	1-11-17
PROD ENGR		
PROJ APPROVAL	JBD	1-11-17
MATL		

JOYGLOBAL

GP HOSE HYD PUMP INST L1250 G3

SIZE E | DO NOT SCALE | DRAWING 4289626 | REV 02

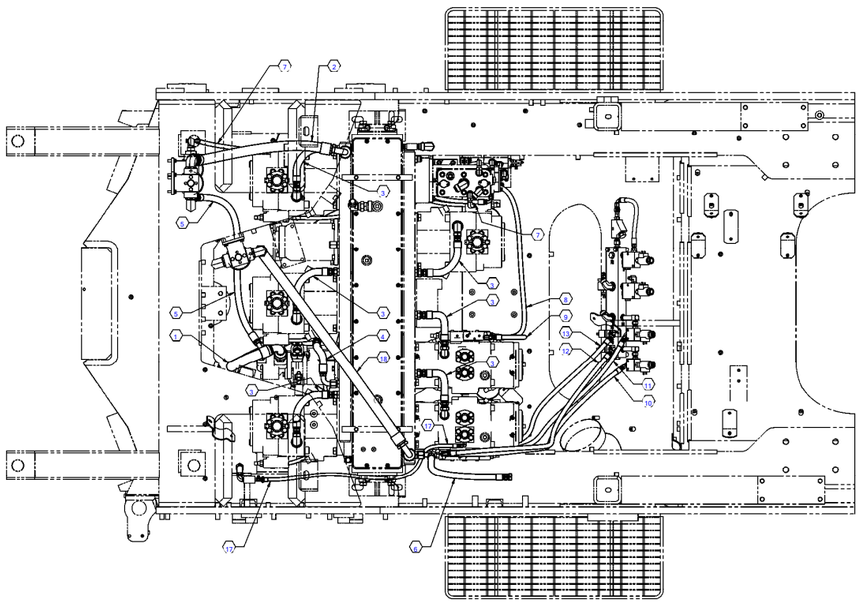
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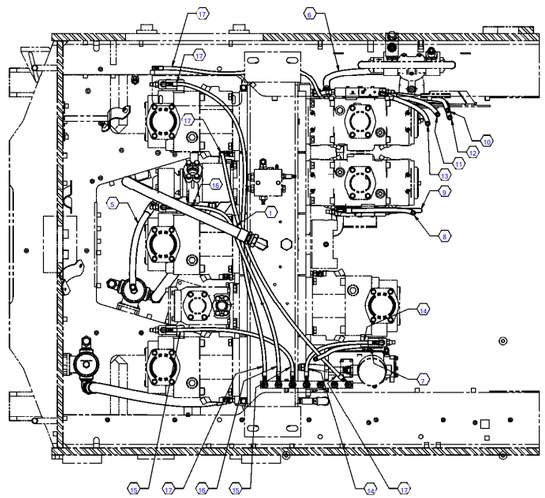
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HYDRAULIC PUMP INSTALLATION HOSE GROUP

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HYDRAULIC PUMP INSTALLATION HOSE GROUP





SECTION A-A

GP HOSE HYD PUMP INST L1250 G3

E DO NOT SCALE DWG NO. 4289626 REV 02

SCALE 1:8 WT 14.3 lbm SHEET 2 OF 2

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HYDRAULIC PUMP INSTALLATION HOSE GROUP

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HYDRAULIC PUMP INSTALLATION HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289626		HYDRAULIC PUMP INSTALLATION HOSE GROUP		
1	R4243736	1	· HOSE ASSEMBLY, #20 X 44"		
2	R4223489	1	· HOSE ASSEMBLY, #20 X 36"		
3	R4244950	6	· HOSE ASSEMBLY, #12 X 13"		
4	R4267509	1	· HOSE ASSEMBLY, #12 X 11"		
5	R4186071	1	· HOSE ASSEMBLY, #12 X 82"		
6	R4222463	1	· HOSE ASSEMBLY, #12 X 60"		
7	R4233309	1	· HOSE ASSEMBLY, #6 X 90"		
8	R4223480	1	· HOSE ASSEMBLY, #6 X 72"		
9	R4129107	1	· HOSE ASSEMBLY, #6 X 26"		
10	R4156395	1	· HOSE ASSEMBLY, #6 X 90"		
11	R4155731	5	· HOSE ASSEMBLY, #6 X 82"		
12	R4141624	1	· HOSE ASSEMBLY, #6 X 90"		
13	R4243742	1	· HOSE ASSEMBLY, #6 X 78"		
14	R4143887	1	· HOSE ASSEMBLY, #4 X 20"		
15	R4193525	1	· HOSE ASSEMBLY, #4 X 33"		
16	R4150726	1	· HOSE ASSEMBLY, #4 X 45"		
17	R4150730	1	· HOSE ASSEMBLY, #4 X 65"		
18	R4267961	1	· HOSE ASSEMBLY, #20 X 62"		
			DRAWING, HYDRAULIC PUMP INSTALLATION HOSE GROUP (R428962602)		

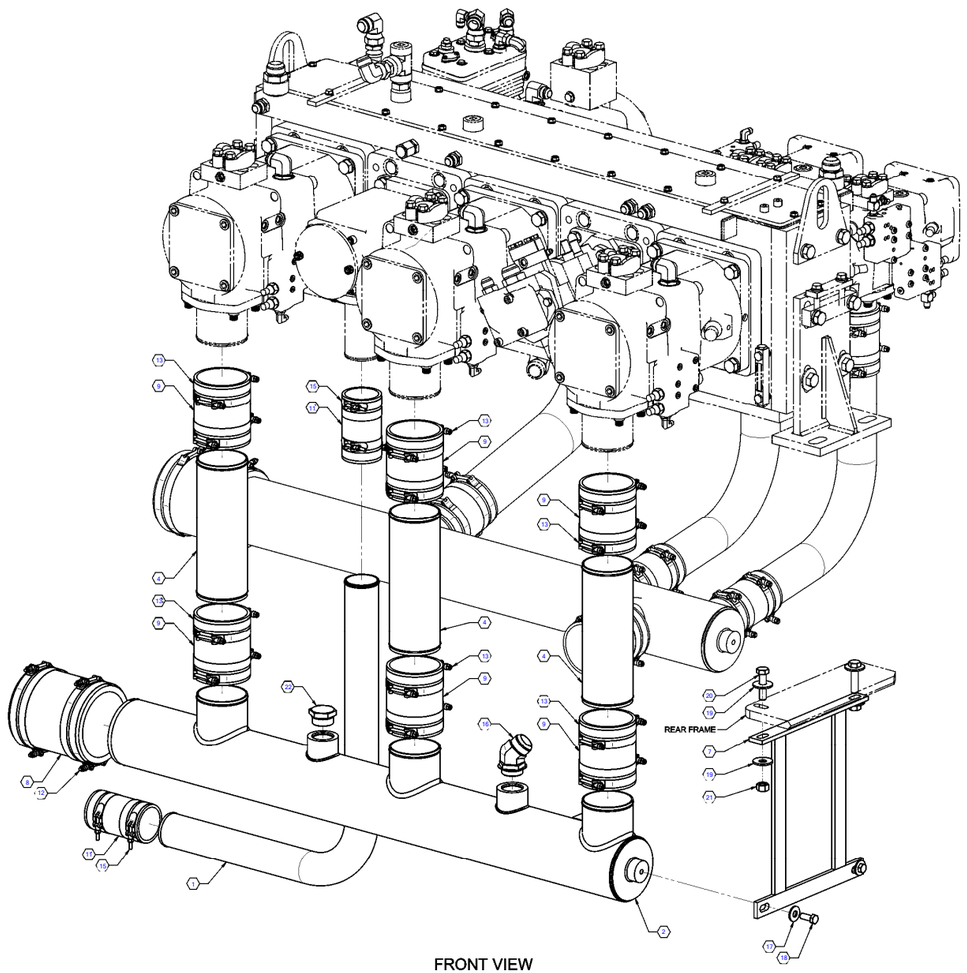
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

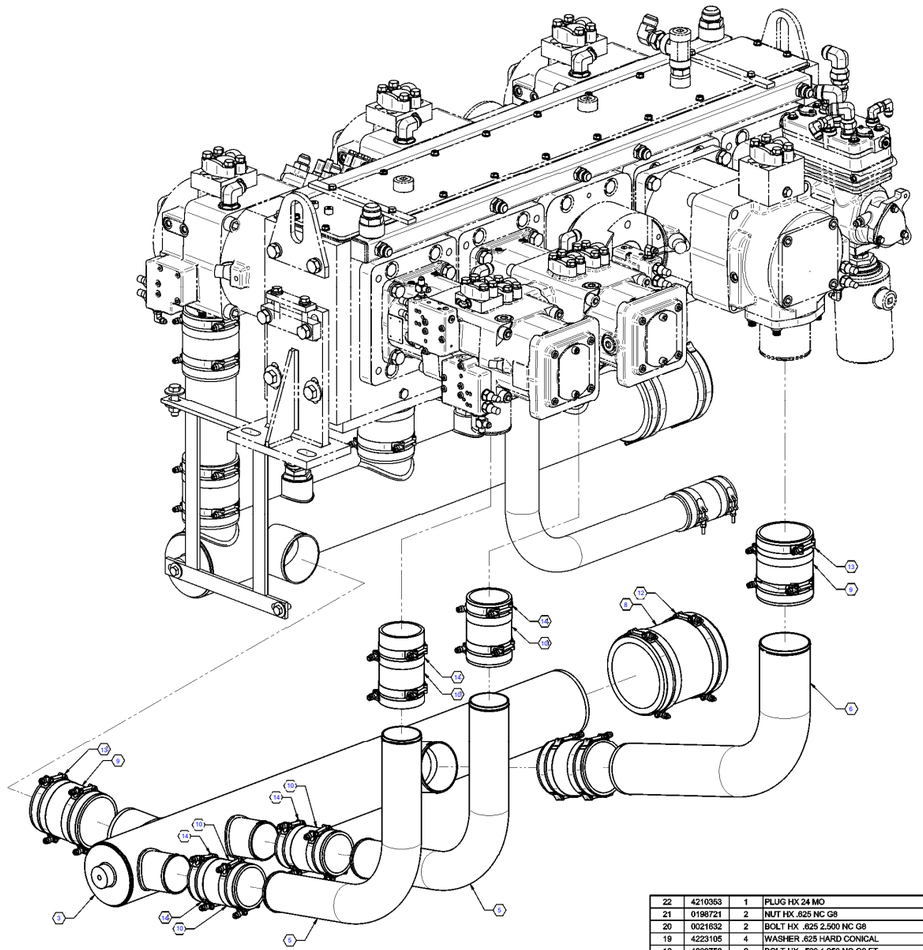
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PUMP SUCTION GROUP



FRONT VIEW



REAR VIEW

ITEM	PART NO.	QTY	DESCRIPTION
22	4210353	1	PLUG HX 24 MO
21	0198721	2	NUT HX .625 NC G8
20	0021632	2	BOLT HX .625 2.500 NC G8
19	4223105	4	WASHER .625 HARD CONICAL
18	4009752	2	BOLT HX .500 1.250 NC G8 FT
17	4223104	2	WASHER CON .531 1.38 .15 HRD
16	4002469	1	FTG HYD 45 24 MJ 24 MO
15	0983443	8	CLAMP HOSE T-BOLT 3.50
14	0983424	16	CLAMP HOSE T-BOLT 4.00
13	4014470	36	CLAMP HOSE T-BOLT 5.00
12	4243973	8	CLAMP HOSE T-BOLT 7.25
11	4238009	2	HOSE, 3 ID X 6 LONG
10	4162338	4	HYD HOSE, 3-1/2" ID X 8" LONG
9	4188910	9	HYD HOSE, 4-1/2 ID X 6 LONG
8	4163818	2	HOSE, 6" ID X 8" LONG
7	4241376	1	STR SUCTION TUBE BRACE L-1350
6	4241061	1	TUBE SUCTION REAR 4.50 OD
5	4241047	2	TUBE SUCTION 3.50 OD REAR
4	4241062	3	TUBE SUCTION REAR 4.50 OD
3	4241052	1	STR SUCTION TUBE REAR
2	4241051	1	STR SUCTION TUBE FRONT
1	4241063	1	TUBE SUCTION FRONT

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1600.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.02 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-9823

		DATE
DWN	rhyatt	9-23-16
CHK	EER	9-23-16
ENGR	EER	9-23-16
PROD ENGR		
PROJ APPROVAL	JBD	9-23-16
MATL		

JOYGLOBAL

GP PUMP SUCTION L1250 G3

SIZE E | DO NOT SCALE | DWG NO. 4288367 | REV 01

SCALE 1:4 | WT 256.0 lbm | SHEET 1 OF 1

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PUMP SUCTION GROUP

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PUMP SUCTION GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288367		PUMP SUCTION GROUP		
1	R4241063	1	· TUBE, SUCTION		
2	R4241051	1	· TUBE STRUCTURE, SUCTION - FRONT		
3	R4241052	1	· TUBE STRUCTURE, SUCTION - REAR		
4	R4241062	3	· TUBE, SUCTION - REAR 4-1/2" O.D.		
5	R4241047	2	· TUBE, SUCTION - REAR 3-1/2" O.D.		
6	R4241061	1	· TUBE, SUCTION		
7	R4241376	1	· MOUNT STRUCTURE, SUCTION TUBE		
8	R4163818	2	· HOSE, 6" I.D. X 8"		
9	R4188910	9	· HOSE, 4-1/2" I.D. X 6"		
10	R4162338	4	· HOSE, 3-1/2" I.D. X 6"		
11	R4238009	2	· HOSE, 3" I.D. X 6"		
12	R4243973	8	· CLAMP, HOSE - T-BOLT, 7-1/4"		
13	R4014470	36	· CLAMP, HOSE - T-BOLT, 5"		
14	R0983424	16	· CLAMP, HOSE - T-BOLT, 4"		
15	R0983443	8	· CLAMP, HOSE - T-BOLT, 3-1/2"		
16	R4002469	1	· ELBOW, #24 MO X 45 deg. X #24 MJ		
17	R4223104	2	· FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		
18	R4009752	2	· BOLT, 1/2"-13 X 1-1/4"		
19	R4223105	4	· FLATWASHER, 5/8" I.D. X 1-3/4" O.D. X 1/8" - CONICAL		
20	R0021632	2	· BOLT, 5/8"-11 X 2-1/2"		
21	R0198721	2	· NUT, 5/8"-11		
22	R4210353	1	· PLUG, #24 MO		
			DRAWING, PUMP SUCTION GROUP (R428836701)		

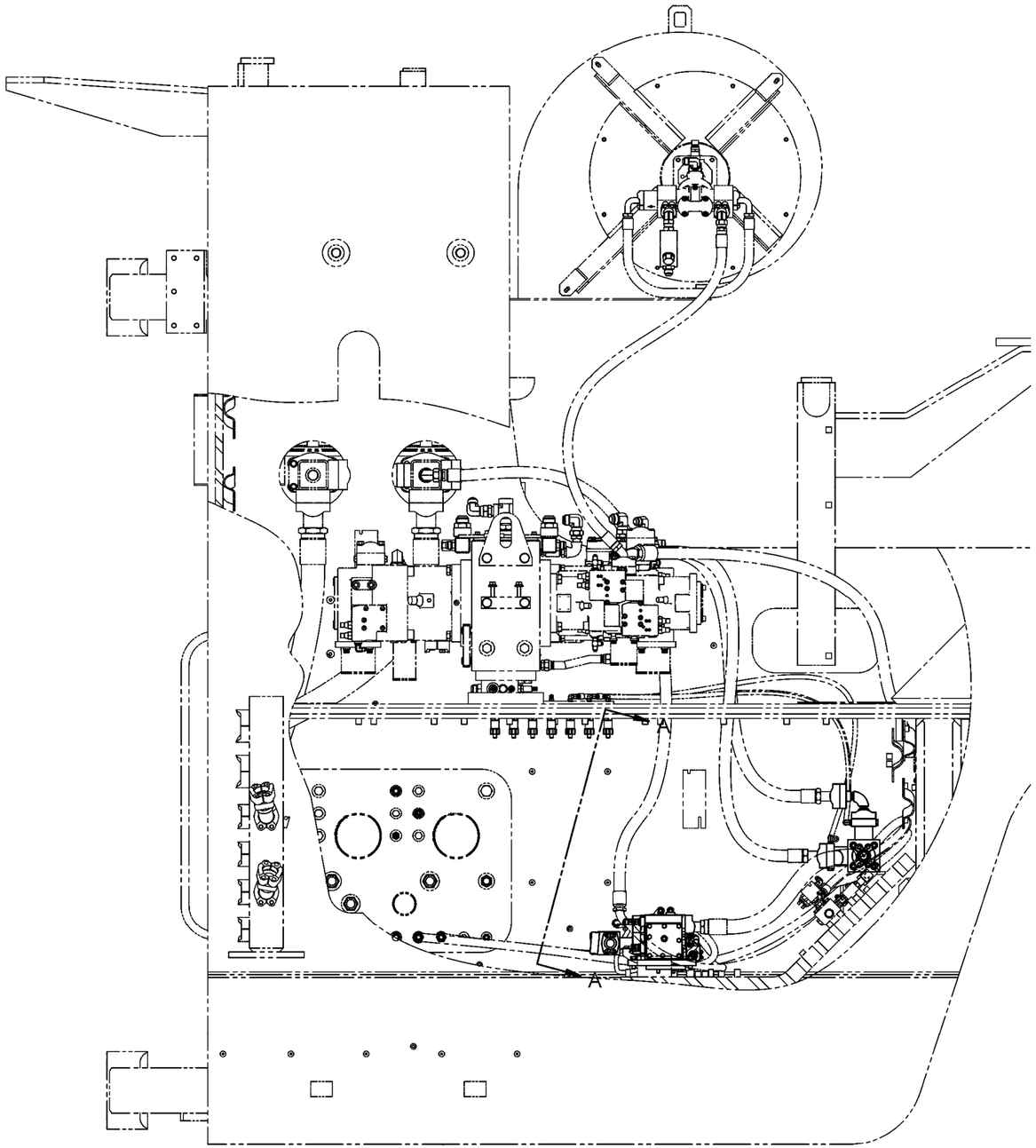
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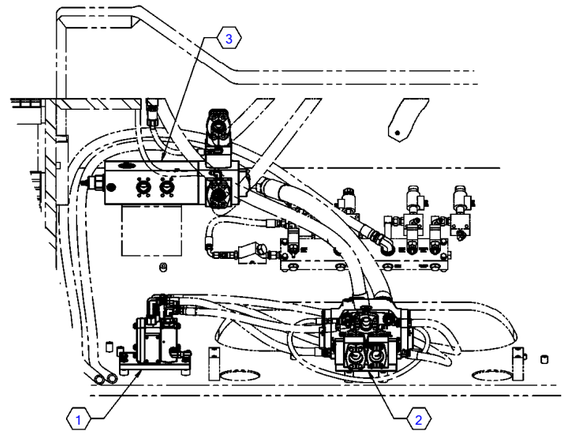
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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UNDER GEARBOX HARDWARE GROUP





SECTION A-A

REF 428-9630 GP HOSE UNDER GBOX L1250 G3
FOR HOSE INSTALLATION

ITEM	PART NO.	QTY	DESCRIPTION
3	4275773	1	SUB-ASSY JUNCTION VALVE
2	4275775	1	SUB-ASSY STEERING VALVE
1	4290580	1	SUB-ASSY PROPORTIONAL VALVE

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- TOLERANCES ON: ANGLES ±1°; FRAC TIONS ±1/16; XX DECIMAL ±.03; XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	twillis	1-11-17
CHK	EER	1-30-17
ENGR	EER	1-30-17
PROD ENGR	JBD	1-30-17
PROJ APPROVAL		
MATL		

JOYGLOBAL

GP HDW UNDER GBOX L1250G3

SIZE D | DO NOT SCALE | DWG NO. 4289629 | REV. 00

SCALE 1/8 | EST WT 252.1 lbm | SHEET 1 OF 1

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289629		UNDER GEARBOX HARDWARE GROUP		
1	R4290580	1	PROPORTIONAL VALVE SUB-ASSEMBLY (PAGE 8.51-8.51A)		
2	R4275775	1	STEERING VALVE SUB-ASSEMBLY (PAGE 8.86-8.86A)		
3	R4275773	1	JUNCTION VALVE ASSEMBLY (PAGE 8.49-8.49A)		
			DRAWING, UNDER GEARBOX HARDWARE GROUP (R428962900)		

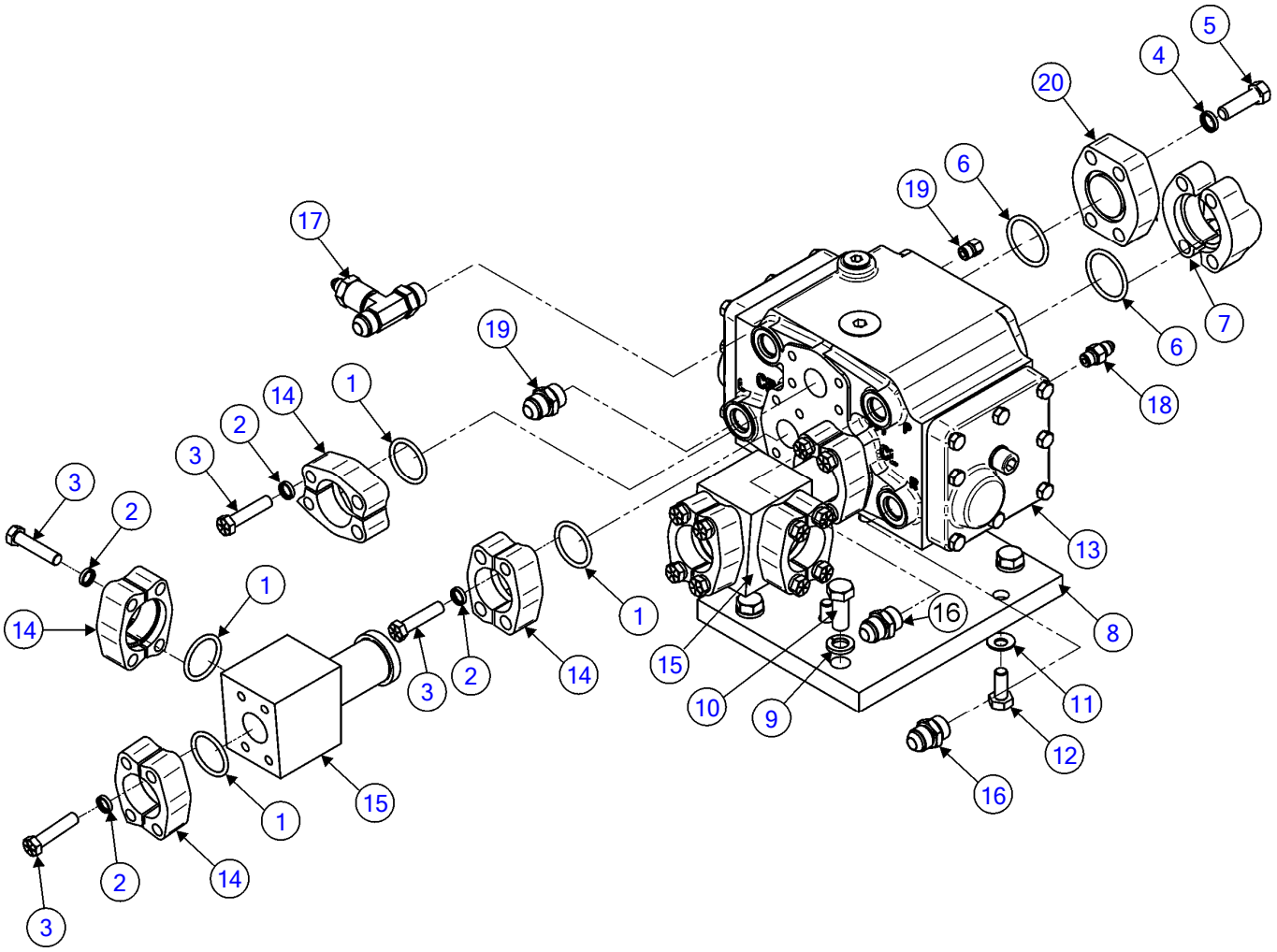
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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STEERING VALVE SUB-ASSY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4275775		STEERING VALVE SUB-ASSEMBLY		8/11/17
1	R4105005	7	· O-RING, 1-1/4" I.D. - POLYURETHANE		
2	R4210347	28	· FLATWASHER, 3/8" - HARDENED		
3	R0829683	28	· BOLT, 3/8"-16 X 1-3/4"		
4	R4210348	8	· FLATWASHER, 7/16" - HARDENED		
5	R4213614	8	· BOLT, 7/16"-14 X 1-3/4'		
6	R4068357	2	· O-RING, 1-1/2" I.D. - POLYURETHANE		
7	R4186400	2	· FLANGE HALF, 1-1/4"		
8	R4103847	1	· MOUNT PLATE, STEERING VALVE		
9	R0801181	4	· LOCKWASHER, 1/2"		
10	R4009752	4	· BOLT, 1/2"-13 X 1-1/4"		
11	R4285243	3	· FLATWASHER, 7/16" I.D. X 15/16" O.D. X 1/16" - CONICAL		8/11/17
12	R4103848	3	· BOLT, M10 X 1.50 X 25		
13	R4270856	1	· VALVE, STEERING (PAGE 8.20-8.20A)		
14	R4186491	14	· FLANGE HALF, 1"		
15	R4103844	2	· MANIFOLD		
16	R4002455	3	· ADAPTER, #8 MO X #8 MJ		
17	N.P.N.	1	· TEE ASSEMBLY		
	R4020762	1	· · TEE, #8 MJ X #8 MO X #8 MJ		
	R4257157	1	· · ADAPTER, #8 FJ X #4 MJ		
18	R4014580	1	· ADAPTER, #4 MO X #4 MJ		
19	R4020770	1	· PLUG, #4 MO		
20	R4008733	1	· PLUG, SF - 1-1/4"		
		REF	DRAWING, STEERING VALVE SUB-ASSEMBLY (R427577502)		8/11/17

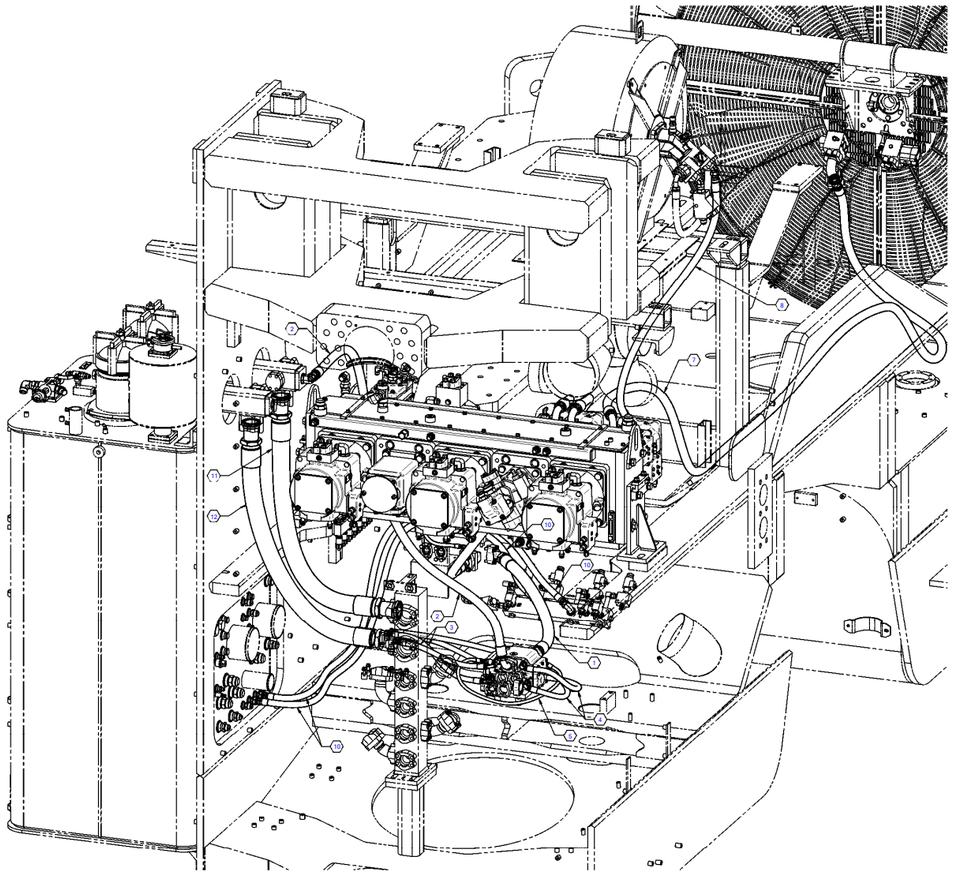
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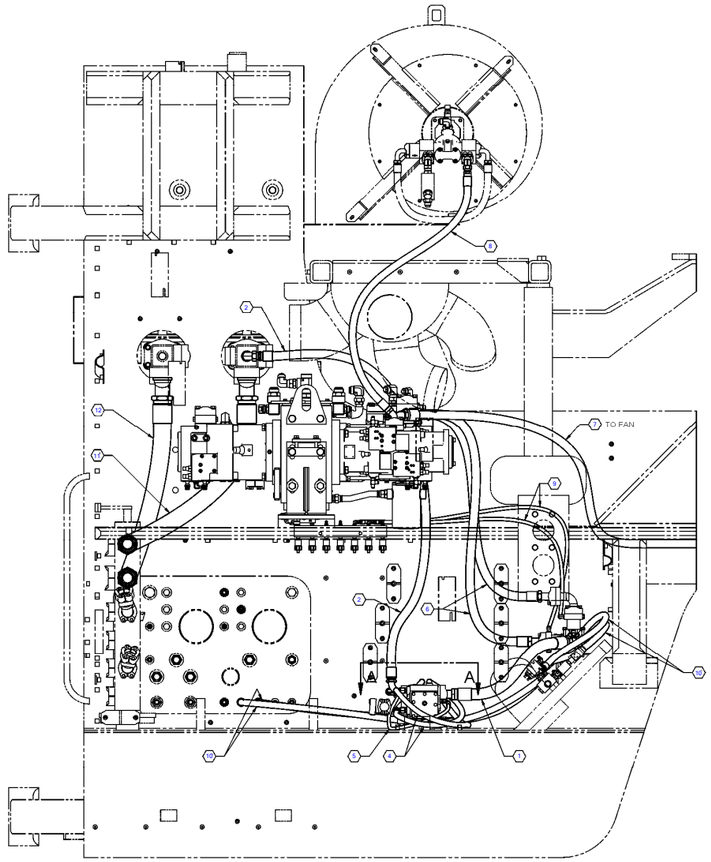
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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UNDER GEARBOX HOSE GROUP





ITEM	PART NO.	QTY	DESCRIPTION
12	4292289	1	HOSE 1200 40 57.0 0F 0F
11	4223414	1	HOSE 1200 40 59.0 0F 0F
10	4121659	2	HOSE 1250 12 138.0 0J 0J
9	6989042	2	HOSE 5000 4 50.0 0J 0J
8	4270880	1	HOSE 5000 12 58.0 0J45FJ16C62
7	4270926	1	HOSE5000 16 246.0FJ206190F62FS
6	4270952	2	HOSE 5000 16 74.0 0F62 90F62
5	4186076	1	HOSE 2750 4 34.0 0J 90J
4	4222273	2	HOSE 4250 8 52.0 0J 90J
3	4243503	2	HOSE 4250 8 25.0 0J 90J
2	4243527	1	HOSE 4000 16 96.0 0J 90F
1	4244714	1	HOSE 5000 20 36.0 0F 45F

REF 428-9629 GP HDW UNDER GBOX L1250G3
FOR HARDWARE INSTALLATION

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INTERPRET DIM & TOL PER LET OURNEAU SPEC 1656 00

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°, FRAC TIONS ±1/16, XXD ECIMAL ±.03, XXX DECIMAL ±.015
- MACHINED CORNERS .189 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON CONTRACT NO: 428-9623

		DATE
DWN	twillis	1-20-17
CHK	EER	1-30-17
ENGR		
PROD ENGR	JBD	1-30-17
PROJ APPROVAL		
MATL		

JOYGLOBAL

GP HOSE UNDER GBOX L1250G3

SIZE E | DO NOT SCALE | DWG NO. 4289630 | REV 02

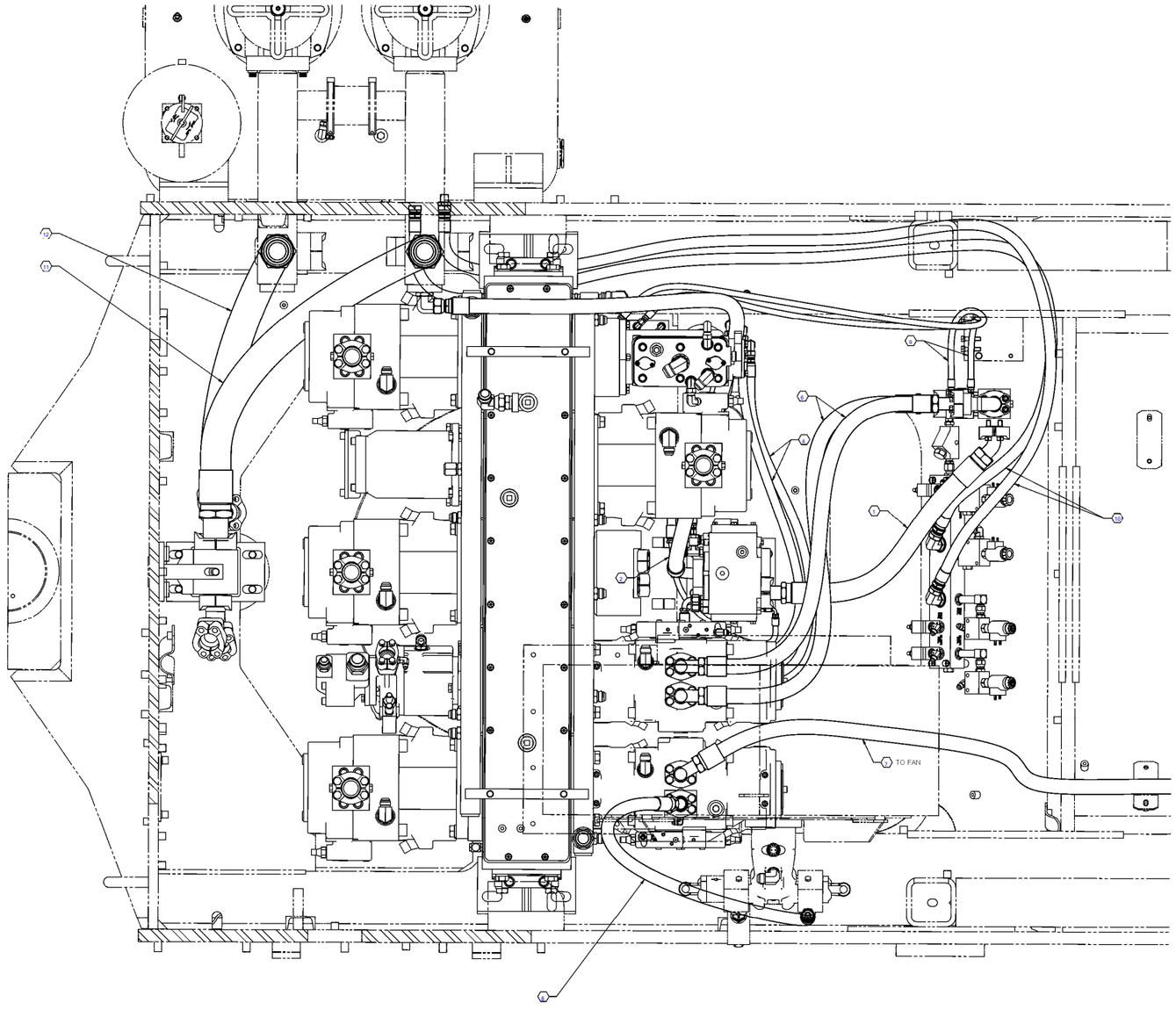
SCALE 1:20 | WEIGHT 186.4 lb/m | SHEET 1 OF 2

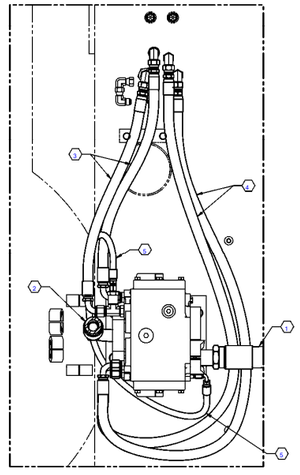
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UNDER GEARBOX HOSE GROUP

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UNDER GEARBOX HOSE GROUP





SECTION A-A
1:4

GP HOSE UNDER GBOX L120G3

E | DO NOT SCALE | DWG NO 4289630 | REV 02

SCALE 1:4 | WT/WT 186.4 lbm | SHEET 2 OF 2

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UNDER GEARBOX HOSE GROUP

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289630		UNDER GEARBOX HOSE GROUP		
1	R4244714	1	· HOSE ASSEMBLY, #20 X 36"		
2	R4243527	1	· HOSE ASSEMBLY, #16 X 96"		
3	R4243503	2	· HOSE ASSEMBLY, #8 X 25"		
4	R4222273	2	· HOSE ASSEMBLY, #8 X 52"		
5	R4186076	1	· HOSE ASSEMBLY, #4 X 34"		
6	R4270952	2	· HOSE ASSEMBLY, #16 X 74"		
7	R4270926	1	· HOSE ASSEMBLY, #16 X 246"		
8	R4270880	1	· HOSE ASSEMBLY, #12 X 58"		
9	R6989042	2	· HOSE ASSEMBLY, #4 X 50"		
10	R4121659	2	· HOSE ASSEMBLY, #12 X 138"		
11	R4223414	1	· HOSE ASSEMBLY, #40 X 59"		
12	R4292289	1	· HOSE ASSEMBLY, #40 X 57"		
			DRAWING, UNDER GEARBOX HOSE GROUP (R428963002)		

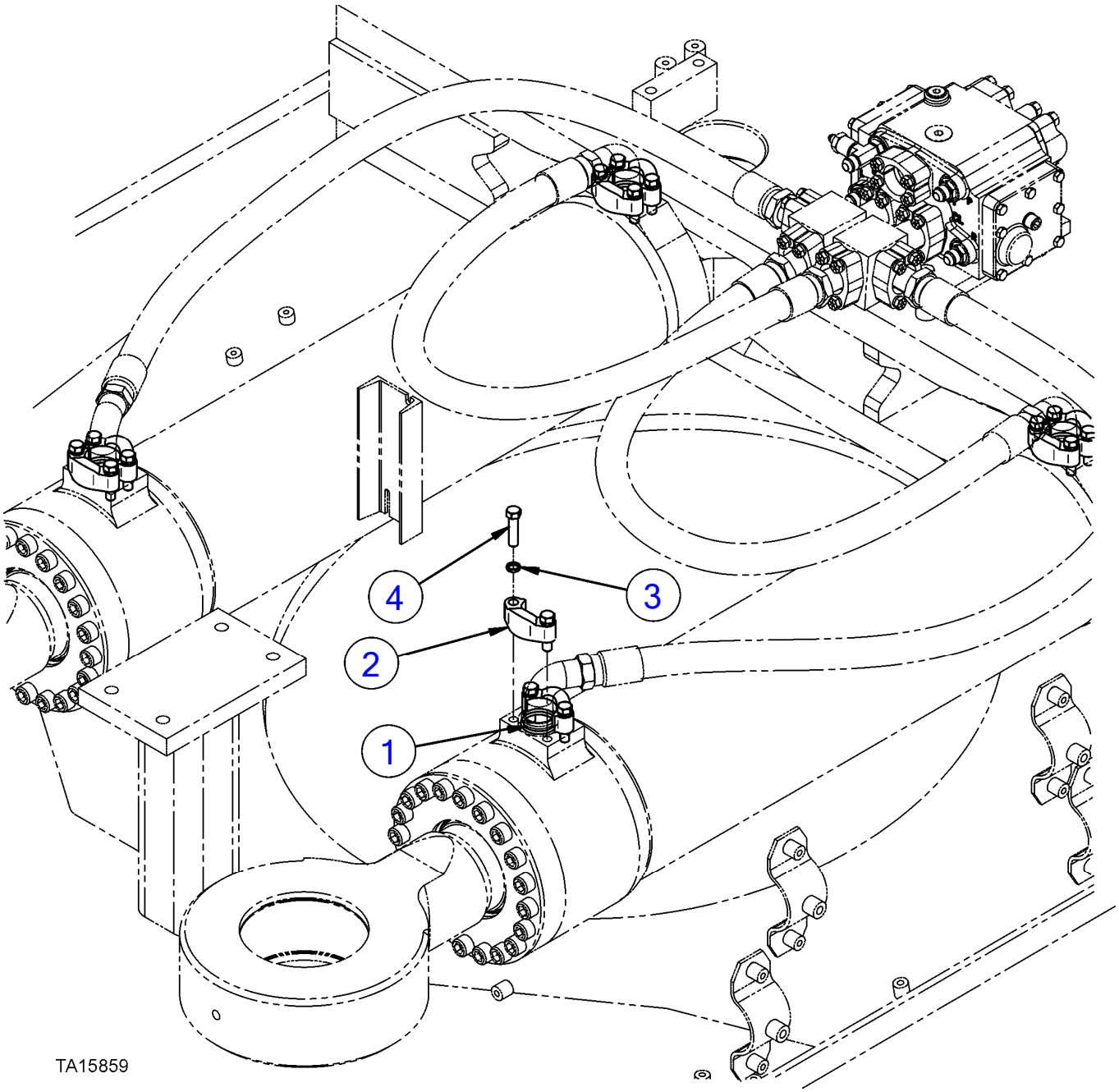
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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STEER CYLINDER HARDWARE GROUP



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4277960		STEER CYLINDER HARDWARE GROUP		
1	R4068357	4	· O-RING, 1-1/2" I.D. - POLYURETHANE		
2	R4186400	8	· FLANGE HALF, 1-1/4"		
3	R4210348	16	· FLATWASHER, 7/16" - HARDENED		
4	R4213614	16	· BOLT, 7/16"-14 X 1-3/4"		
			DRAWING, STEER CYLINDER HARDWARE GROUP (R427796000)		

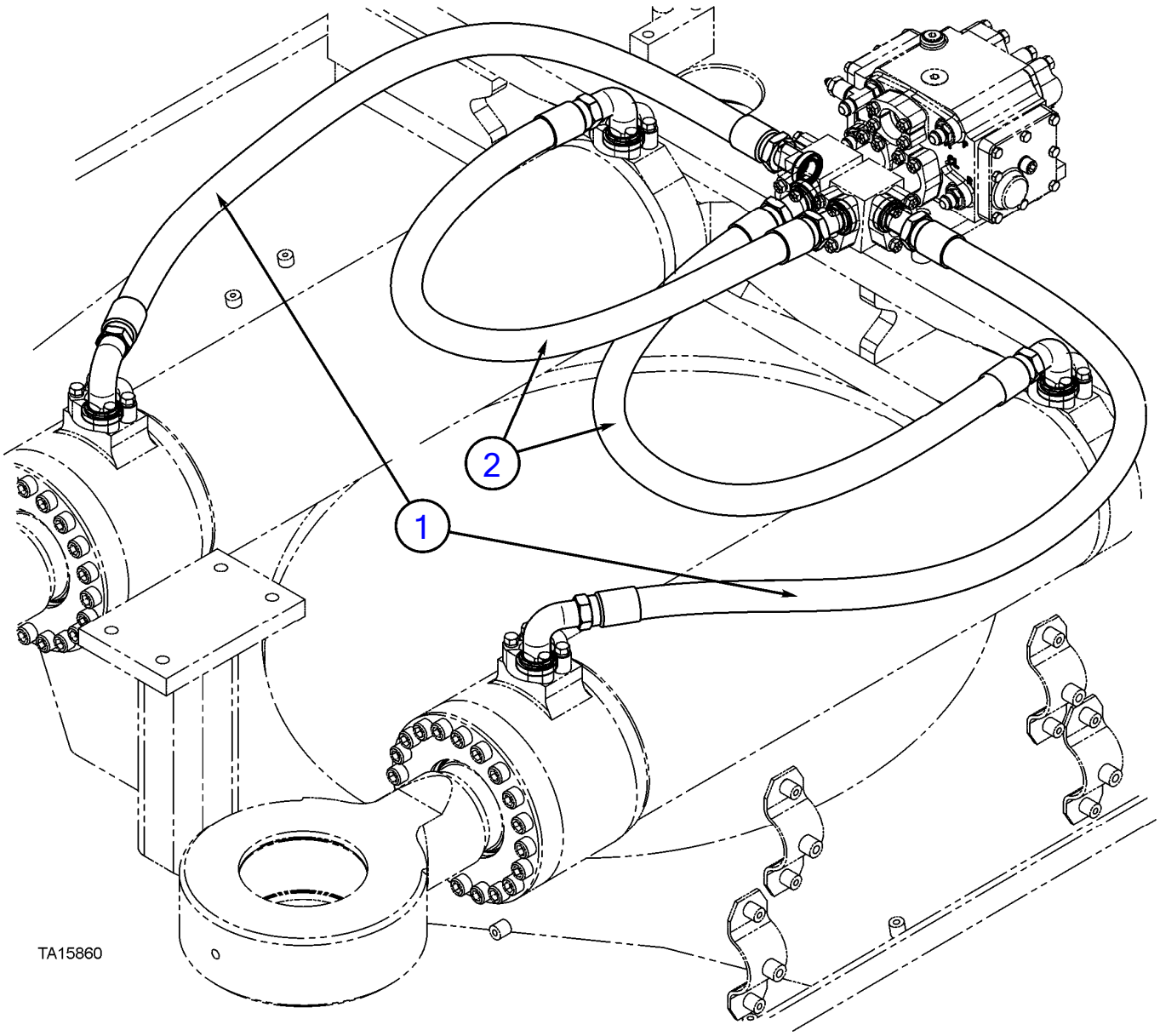
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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STEER CYLINDER HOSE GROUP



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4277961		STEER CYLINDER HOSE GROUP		
1	R4223097	2	· HOSE ASSEMBLY, #16 X 54"		
2	R4223091	2	· HOSE ASSEMBLY, #16 X 46"		
			DRAWING, STEER CYLINDER HOSE GROUP (R427796100)		

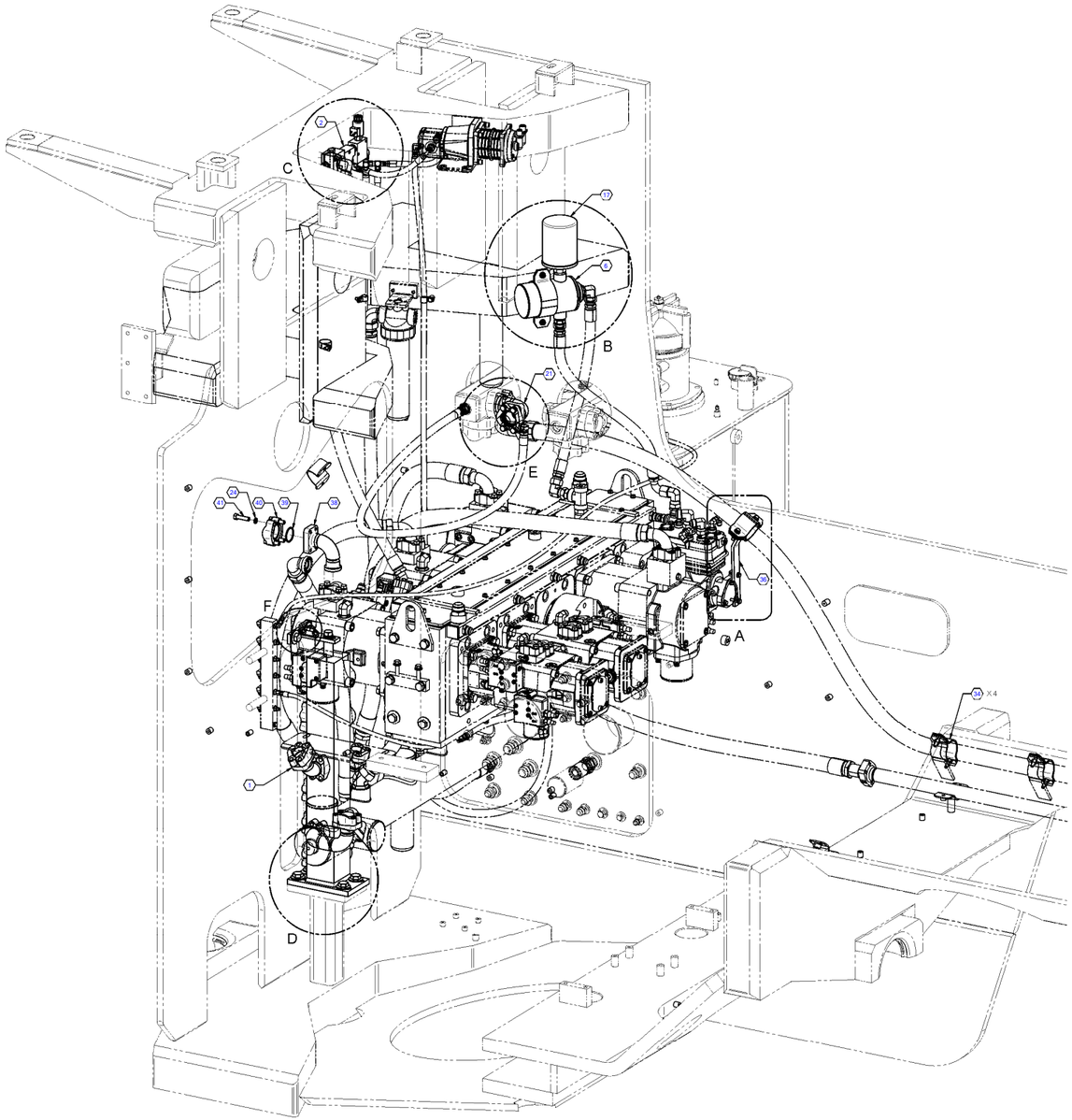
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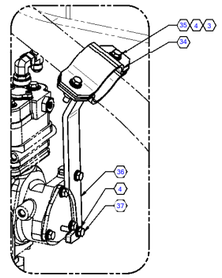
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

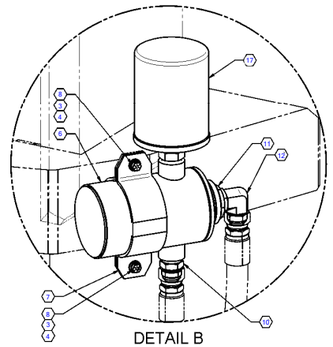
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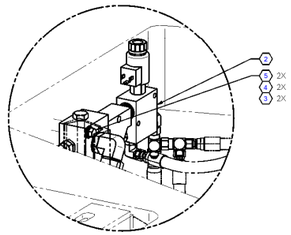
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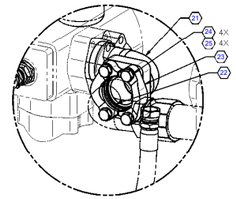
AFTER GEARBOX HARDWARE GROUP

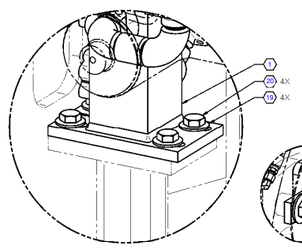


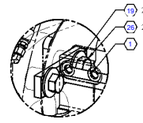

DETAIL A


DETAIL B


DETAIL C


DETAIL E


DETAIL D


DETAIL F

ITEM	PART NO	QTY	DESCRIPTION
42	4243933	1	HOSE .625 20 121.0 .0J .0J
41	0827222	4	BOLT HX .500 2.000 NC G8
40	4186401	2	FLANGE HALF 1.50 FORGED C61
39	4068358	1	O-RING, 1-1/2 SAE SPLIT FLANGE
38	4255263	1	STR ELB SAE-1 1/2-90°-C61-160
37	4236447	2	BOLT HEX 10M X1.5 X 1.25 LG
36	4288514	1	STR CLAMP 2.50 STANDOFF
35	0829683	10	BOLT HX .375 1.750 NC G8
34	0987618	5	CLAMP HALF 3.00
33	4275716	1	ADAPTER TANK BREATHER
32	6945598	1	PIPE NIP 1 X 2-3/8 HX/HYD
31	0810970	3	BOLT HX .375 .750 NC G8 FT
30	4274399	2	CLAMP CABLE INSL .75 .406
29	0988145	1	CLAMP CABLE INSL 1.50 .406
28	4264892	2	FTG HYD .0 6 MJ 10 MO
27	4002470	1	HYD FITTING 90 6 MJ 6 MO
26	4009820	2	BOLT HX .750 1.500 NF G8 FT
25	4009753	4	BOLT HX .500 1.500 NC G8
24	4210349	8	WASHER FLAT .531 .750 .125
23	4223453	2	FLANGE HALF FORG 2.00 .3000
22	4071255	1	O-RING, 2 SAE SPLIT FLANGE
21	4172129	1	STR ELB-SAE-2-90°-C61-80
20	4009822	4	BOLT HX .750 2.000 NF G8
19	4223106	6	WASHER .750 HARD CONICAL
17	4244941	1	FILTER ELEMENT BREATHER
12	4002475	1	FTG HYD 90 16 MJ 16 MO
11	4244690	1	FTG HYD 0 24 MO 16 FO
10	4002424	1	FTG HYD .0 16 MJ 16 MP
8	0808476	2	BOLT HX .375 1.250 NC G8
7	0987622	1	CLAMP HALF 5 INCH
6	4254486	1	ASSEMBLY FILTER
5	4009644	2	BOLT HX .375 2.750 NC G8
4	0753123	19	WASHER LOCK SPR .375 .68 .09
3	0808221	17	WASHER FLAT .375 .81 .08
2	4273460	1	ASSY VALVE ACCESSORY REAR
1	4288509	1	ASSY PRESS & RETURN MNFLD RF

REF 428-9628 GP HOSE AFTER GBOX L1250G3
FOR STD HOSE INSTALLATION

REF 428-9628 GP HSEM AFTER GBOX L1250 G3
FOR MDG-41 HOSE INSTALLATION

REF 428-4690 REF FLUID POWER DIA L1250 G3
FOR OTHER L1250 G3 HYD GROUPS

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1160.00

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°; FRAC TKNS ±1/16; XX.0 DECIMAL ±.03; XXX. DECIMAL ±.015
- MACHINED CORNERS 1 MAX 45°.
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON CONTRACT NO
428-9623

DWN	twills	1-10-17
CHK	EER	1-10-17
ENGR	EER	1-10-17
PROD ENGR		
PROJ APPROVAL	JBD	1-10-17
MATL		

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GP HDW AFTER GBOX L1250 G3

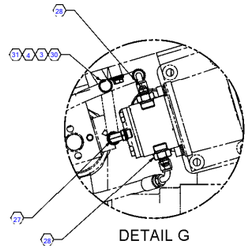
SIZE E | DO NOT SCALE | DWG NO 4289627 | REV 02

SCALE 1:6 | WEIGHT 317.4 lbm | SHEET 1 OF 2

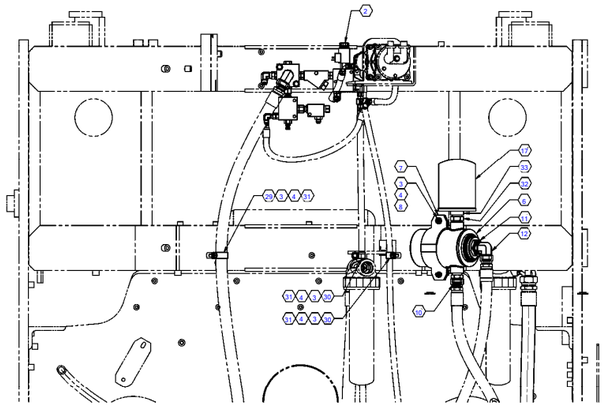
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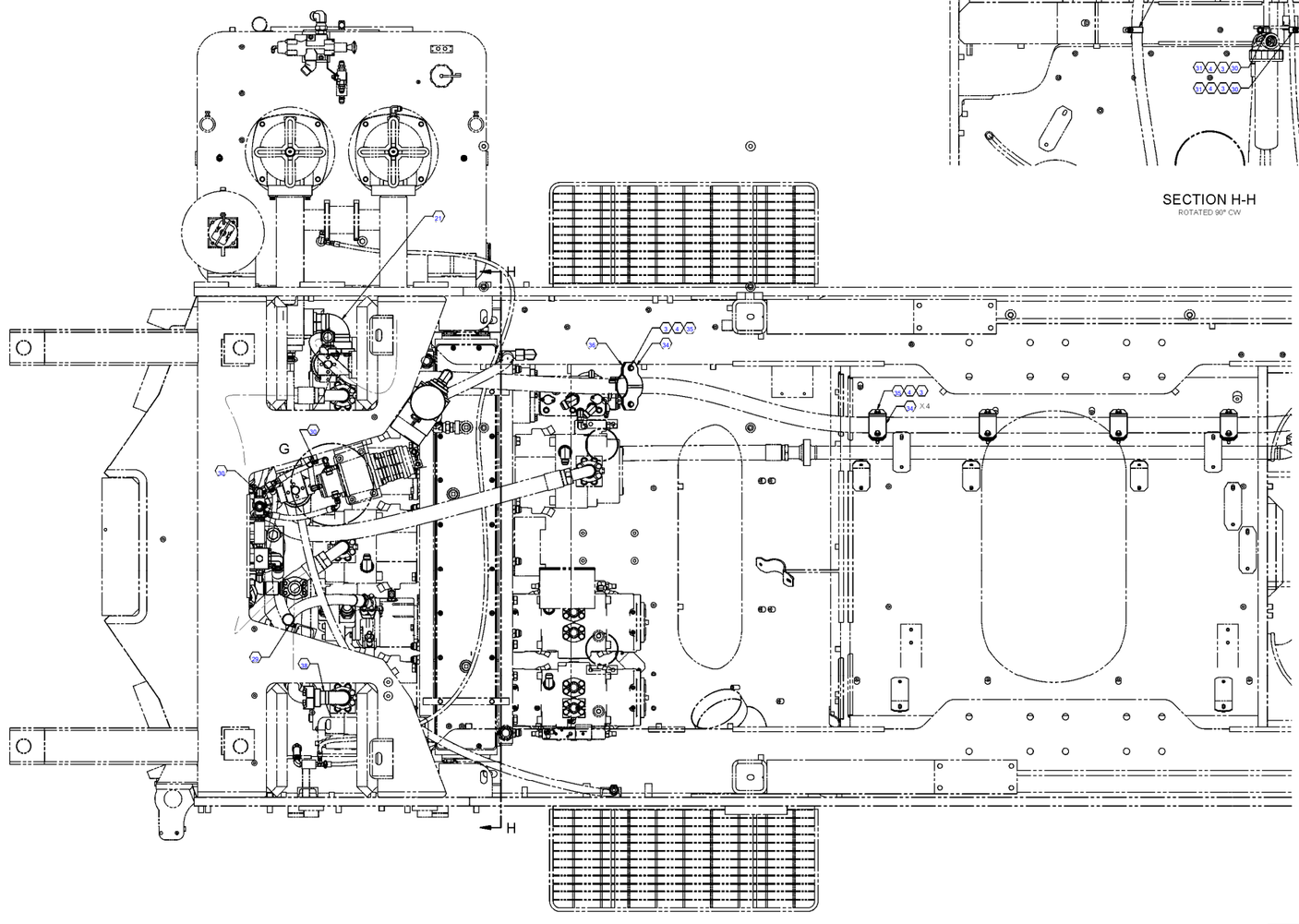
AFTER GEARBOX HARDWARE GROUP



DETAIL G



SECTION H-H
ROTATED 90° CW



GP HDW AFTER GBOX L1250 G3

E | DO NOT SCALE | DWG NO. 4289627 | REV 02

SCALE 1:6 | WEIGHT 317.4 lbm | SHEET 2 OF 2

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289627		AFTER GEARBOX HARDWARE GROUP		
1	R4288509	1	· REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP (PAGE 8.93-8.93A)		
2	R4273460	1	· REAR ACCESSORY VALVE ASSEMBLY (PAGE 8.9-8.9A)		
3	R0808221	17	· FLATWASHER, 3/8"		
4	R0753123	19	· LOCKWASHER, 3/8"		
5	R4009644	2	· BOLT, 3/8"-16 X 2-3/4"		
6	R4254486	1	· FILTER ASSEMBLY, SUCTION (PAGE 8.72-8.72A)		
7	R0987622	1	· CLAMP HALF, 5"		
8	R0808476	2	· BOLT, 3/8"-16 X 1-1/4"		
9	N.P.N.		· NOT USED		
10	R4002424	1	· ADAPTER, 1" MP X #16 MJ		
11	R4244690	1	· BUSHING, #16 FO X #24 MO		
12	R4002475	1	· ELBOW, #16 MO X 90 deg. X #16 MJ		
13	N.P.N.		· NOT USED		
14	N.P.N.		· NOT USED		
15	N.P.N.		· NOT USED		
16	N.P.N.		· NOT USED		
17	R4244941	1	· ELEMENT, FILTER		
18	N.P.N.		· NOT USED		
19	R4223106	6	· FLATWASHER, 3/4" I.D. X 2" O.D. X 3/16" - CONICAL		
20	R4009822	4	· BOLT, 3/4"-16 X 2"		
21	R4172129	1	· ELBOW, #32 SF X 90 deg. X #32 SF		
22	R4071255	1	· O-RING, 2-1/4" I.D. - POLYURETHANE		
23	R4223453	2	· FLANGE HALF, 2"		
24	R4210349	8	· FLATWASHER, 1/2" - HARDENED		
25	R4009753	4	· BOLT, 1/2"-13 X 1-1/2"		
26	R4009820	2	· BOLT, 3/4"-16 X 1-1/2"		
27	R4002470	1	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
28	R4264892	2	· ADAPTER, #10 MO X #6 MJ		
29	R0986145	1	· CLAMP, CABLE - INSULATED, 1-1/2"		
30	R4274399	2	· CLAMP, CABLE - INSULATED, 3/4"		
31	R0810970	3	· BOLT, 3/8"-16 X 3/4"		
32	R6945598	1	· NIPPLE, PIPE - 1"		
33	R4275716	1	· ADAPTER, BREATHER		
34	R0987618	5	· CLAMP HALF, 3" O.D.		
35	R0829683	10	· BOLT, 3/8"-16 X 1-3/4"		
36	R4288514	1	· CLAMP STANDOFF STRUCTURE, 2-1/2" O.D.		
37	R4236447	2	· BOLT, 10 MM X 1.5 X 35.0 MM		
38	R4255263	1	· ELBOW STRUCTURE, 1-1/2" SF X 90 deg.		
39	R4068358	1	· O-RING, 1-7/8" I.D. - POLYURETHANE		
40	R4186401	2	· FLANGE HALF, 1-1/2"		
41	R0827222	4	· BOLT, 1/2"-13 X 2"		
42	R4243933	1	· HOSE ASSEMBLY, #20 X 121"		
			DRAWING, AFTER GEARBOX HARDWARE GROUPR (428962702)		

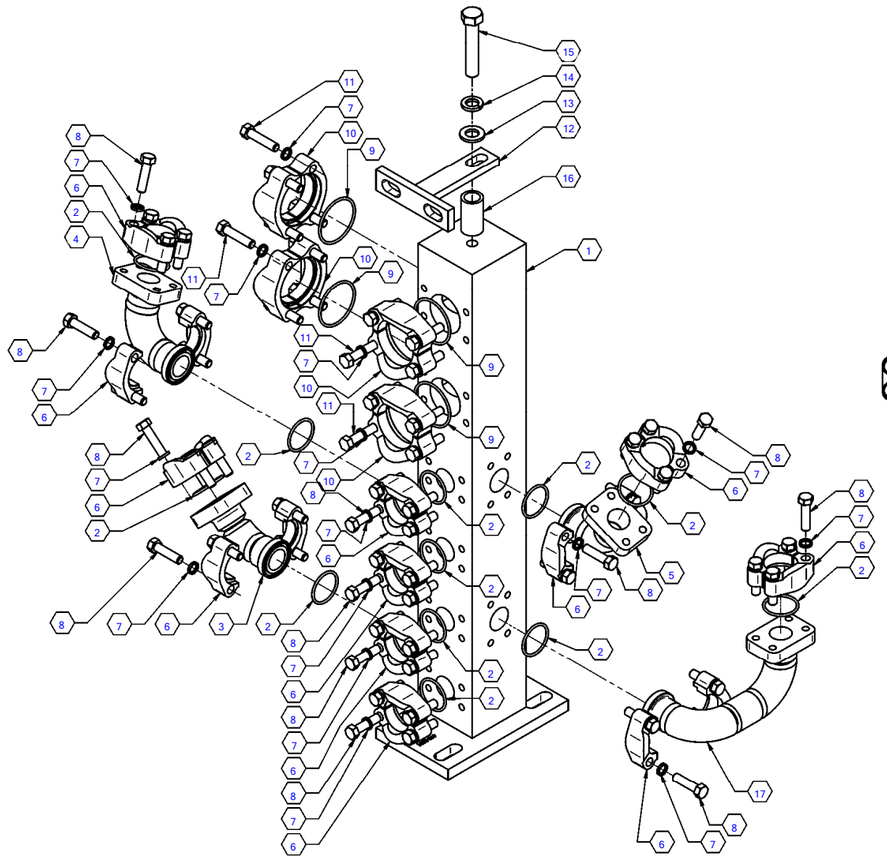
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

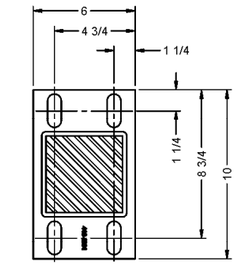
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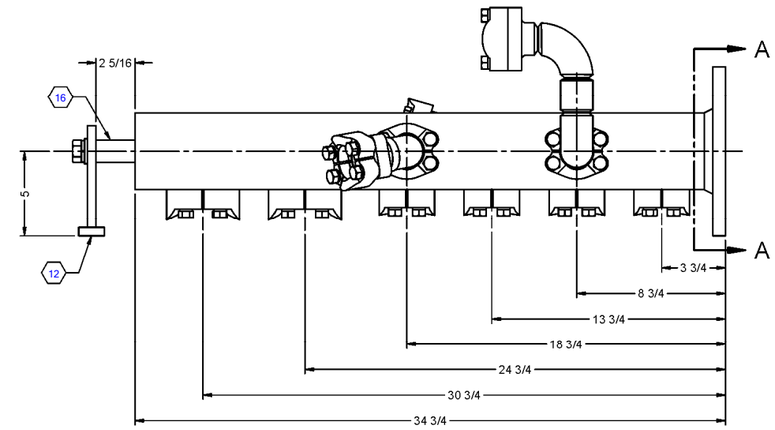
REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP

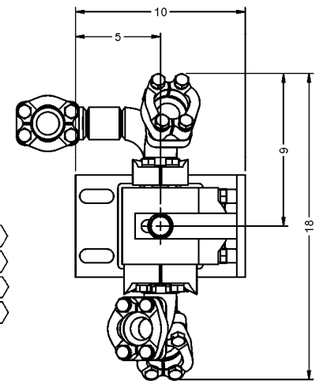


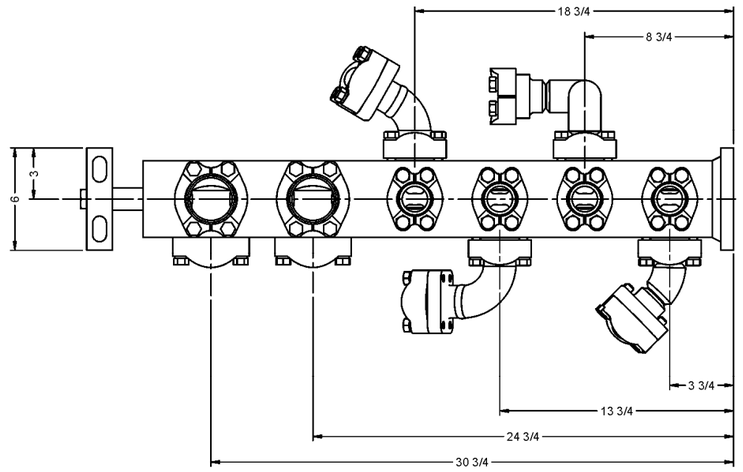
ISOMETRIC VIEW



SECTION A-A







ITEM	PART NO.	QTY	DESCRIPTION
17	4288510	1	STR ELB 90 1.50 160 DBL
16	4288371	1	SPACER RD .957 1.31 2.31
15	0021652	1	BOLT HX .750 4.000 NC G8
14	0021542	1	WASHER LOCK SPR .750 1.27 .19
13	4016046	1	WASHER FLAT .812 1.469 .160
12	4177408	1	BRACE - MANIFOLD BLOCK REAR
11	0808488	16	BOLT HX .500 2.250 NC G8
10	4222106	8	FLANGE HALF 2-1/2 FORGED C61

ITEM	PART NO.	QTY	DESCRIPTION
9	4116301	4	O-RING 2-1/2 SAE SPLIT FLANGE
8	0827222	48	BOLT HX .500 2.000 NC G8
7	4210349	64	WASHER FLAT .531 .750 .125
6	4186401	24	FLANGE HALF 1.50 FORGED C61
5	4255270	1	STR ELB-SAE-1 1/2-60°-C61-160
4	4255263	1	STR ELB SAE-1 1/2-90°-C61-160
3	4255264	1	STR ELB-SAE-1 1/2-45°-C61-160
2	4068358	12	O-RING, 1-1/2 SAE SPLIT FLANGE
1	4188891	1	MANIFOLD BLOCK STR, REAR

NOTE:

ALL DIMENSION ARE REFERENCE

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, XX DECIMAL ±.03, XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO.
428-9627

		DATE
DWN	rhyatt	4-28-17
CHK	EER	4-28-17
ENGR	EER	4-28-17
PROD ENGR		
PROJ APPROVAL	JBD	4-28-17
MATL		

JOYGLOBAL

ASSY PRESS & RETURN MNFLD RF

SIZE D | DO NOT SCALE | DWG NO. 4288509 | REV 00

SCALE 1:4 | EST WT 244.9 lbm | SHEET 1 OF 1

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REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP

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REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288509		REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP		
1	R4188891	1	· MANIFOLD BLOCK STRUCTURE - REAR		
2	R4068358	12	· O-RING, 1-7/8" I.D. - POLYURETHANE		
3	R4255264	1	· ELBOW STRUCTURE, 1-1/2" SF X 45 deg.		
4	R4255263	1	· ELBOW STRUCTURE, 1-1/2" SF X 90 deg.		
5	R4255270	1	· ELBOW STRUCTURE, 1-1/2" SF X 60 deg.		
6	R4186401	24	· FLANGE HALF, 1-1/2"		
7	R4210349	64	· FLATWASHER, 1/2" - HARDENED		
8	R0827222	48	· BOLT, 1/2"-13 X 2"		
9	R4116301	4	· O-RING, 2-3/4" I.D. - POLYURETHANE		
10	R4222106	8	· FLANGE HALF, 2-1/2"		
11	R0808488	16	· BOLT, 1/2"-13 X 2-1/4"		
12	R4177408	1	· BRACE, MANIFOLD BLOCK STRUCTURE		
13	R4016046	1	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		
14	R0021542	1	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
15	R0021652	1	· BOLT, 3/4"-10 X 4"		
16	R4288371	1	· SPACER, 15/16" I.D. X 1-5/16" O.D. X 2-5/16"		
17	R4288510	1	· ELBOW STRUCTURE		
			DRAWING, REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP (R428850900)		

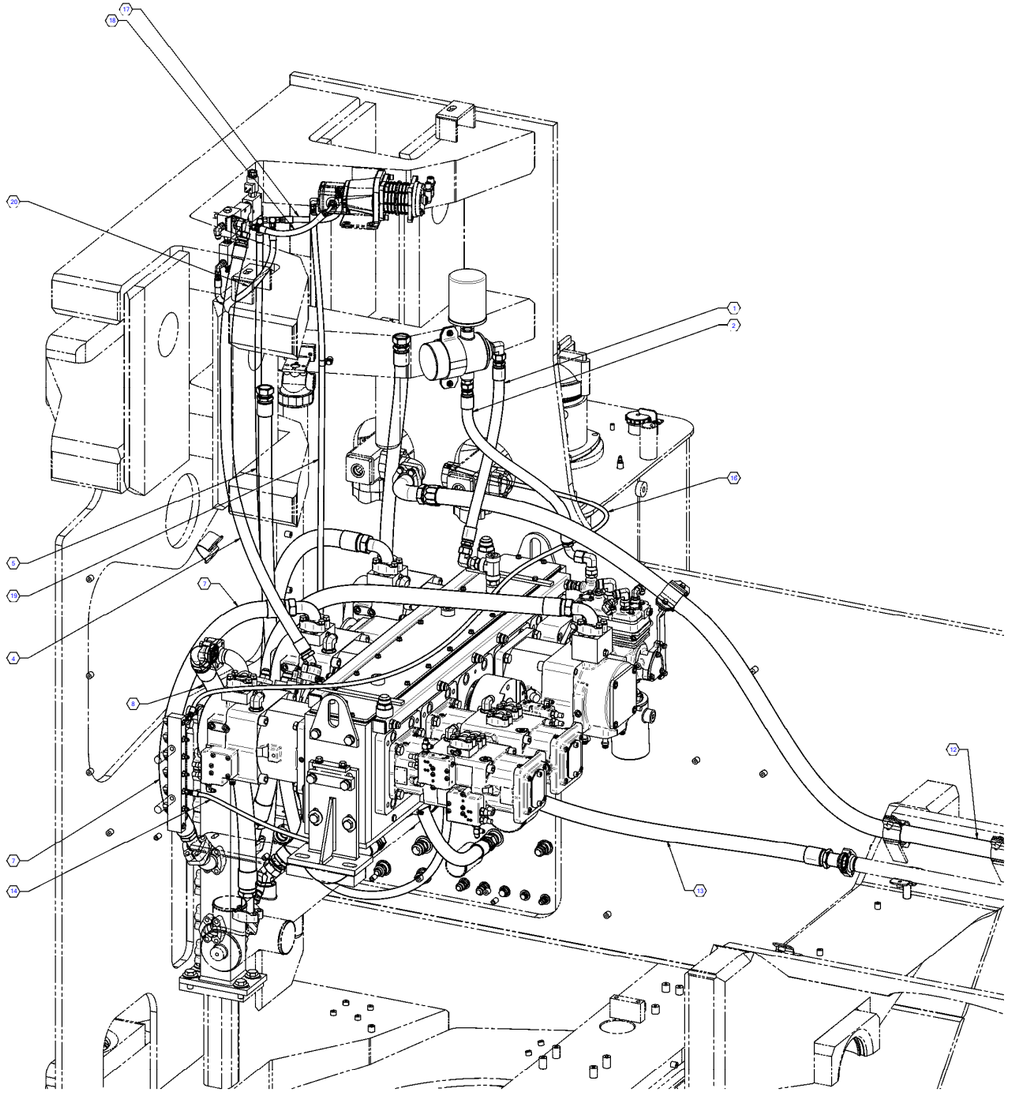
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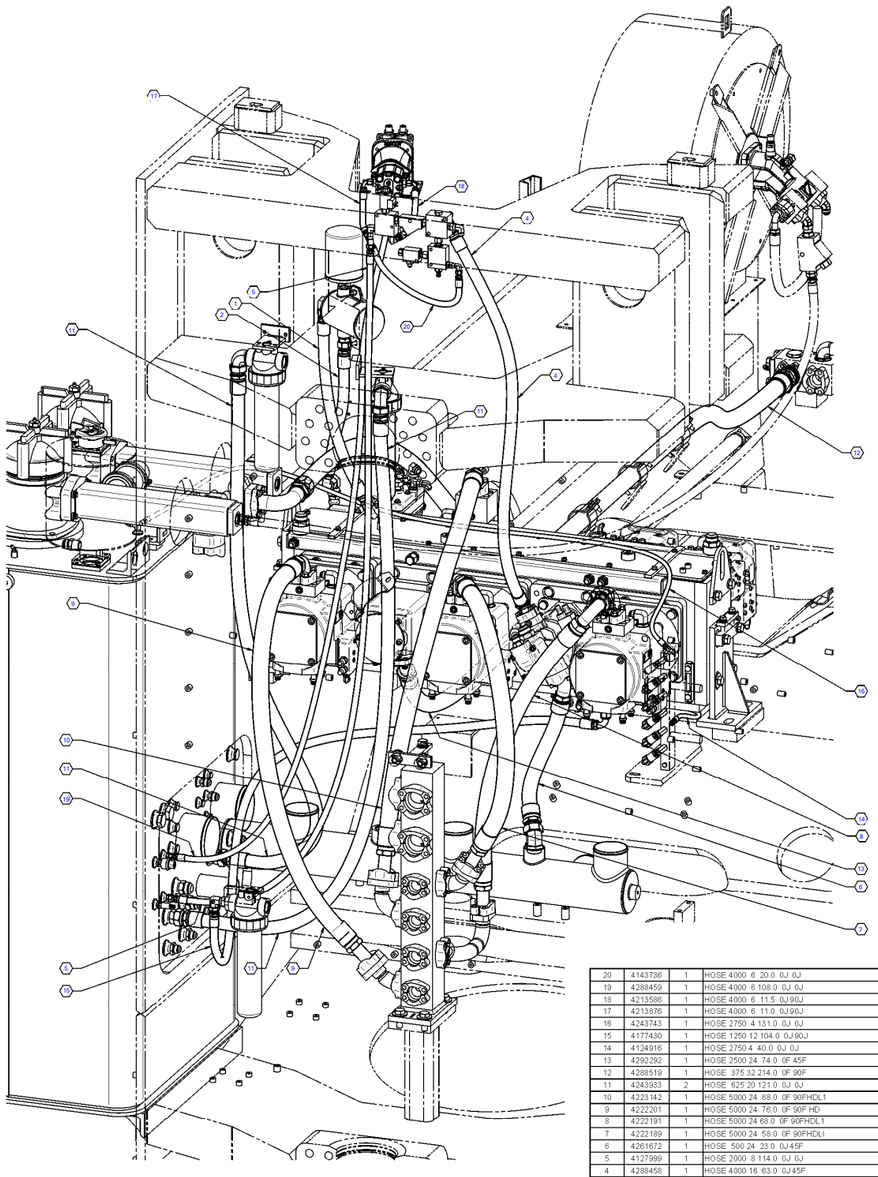
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AFTER GEARBOX HOSE GROUP





ITEM	PART NO.	QTY	DESCRIPTION
20	4143736	1	HOSE 4000 6 20.0 0J 0J
19	4288459	1	HOSE 4000 6 108.0 0J 0J
18	4213586	1	HOSE 4000 6 11.5 0J 90J
17	4213876	1	HOSE 4000 6 11.0 0J 90J
16	4243743	1	HOSE 2750 4 131.0 0J 0J
15	4177430	1	HOSE 1250 12 104.0 0J 90J
14	4124916	1	HOSE 2750 4 40.0 0J 0J
13	4292292	1	HOSE 2500 24 74.0 0F 45F
12	4288519	1	HOSE 375 32 214.0 0F 90F
11	4243933	2	HOSE 625 20 121.0 0J 0J
10	4223142	1	HOSE 5000 24 88.0 0F 90FHDL1
9	4222201	1	HOSE 5000 24 76.0 0F 90F HD
8	4222191	1	HOSE 5000 24 68.0 0F 90FHDL1
7	4222189	1	HOSE 5000 24 58.0 0F 90FHDL1
6	4261672	1	HOSE 500 24 23.0 0J 45F
5	4127999	1	HOSE 2000 8 114.0 0J 0J
4	4288458	1	HOSE 4000 16 63.0 0J 45F
2	4223470	1	HOSE 1000 16 32.0 0J 90J
1	4148928	1	HOSE 1000 16 30.0 0J 0J

REF 428-8627 GP HDW AFTER GBOX L1250G3
FOR HARDWARE INSTALLATION

REF 428-8521 GP HSEM AFTER GBOX L1250 G3
FOR MDG-41 HOSE INSTALLATION

REF 428-4690 REF FLUID POWER DIA L1250 G3
FOR OTHER L1250 G3 HYD GROUPS

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INTERPRET DIM & TOL PER LET GUIRNEAU SPEC 1650 06

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO		
428-9623		
DWN	twillis	1-10-17
CHK	EER	1-10-17
ENGR	EER	1-10-17
PROD ENGR		
PROJ APPROVAL	JBD	1-10-17
MATL		

JOYGLOBAL

GP HOSE AFTER GBOX L1250 G3

SIZE E | DO NOT SCALE | DWG NO. 4289628 | REV 04

SCALE 1/6 | WT/FT 152.1 lb/m | SHEET 1 OF 1

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AFTER GEARBOX HOSE GROUP

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AFTER GEARBOX HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289628		AFTER GEARBOX HOSE GROUP		
1	R4148928	1	· HOSE ASSEMBLY, #16 X 30"		
2	R4223470	1	· HOSE ASSEMBLY, #16 X 32"		
3	N.P.N.	1	· NOT USED		
4	R4288458	1	· HOSE ASSEMBLY, #16 X 63"		
5	R4127999	1	· HOSE ASSEMBLY, #8 X 114"		
6	R4261672	1	· HOSE ASSEMBLY, #24 X 23"		
7	R4222189	1	· HOSE ASSEMBLY, #24 X 58"		
8	R4222191	1	· HOSE ASSEMBLY, #24 X 68"		
9	R4222201	1	· HOSE ASSEMBLY, #24 X 76"		
10	R4223142	1	· HOSE ASSEMBLY, #24 X 88"		
11	R4243933	2	· HOSE ASSEMBLY, #20 X 121"		
12	R4288519	1	· HOSE ASSEMBLY, #32 X 214"		
13	R4292292	1	· HOSE ASSEMBLY, #24 X 74"		
14	R4124916	1	· HOSE ASSEMBLY, #4 X 40"		
15	R4177430	1	· HOSE ASSEMBLY, #12 X 104"		
16	R4243743	1	· HOSE ASSEMBLY, #4 X 131"		
17	R4213876	1	· HOSE ASSEMBLY, #6 X 11"		
18	R4213586	1	· HOSE ASSEMBLY, #6 X 11-1/2"		
19	R4288459	1	· HOSE ASSEMBLY, #6 X 108"		
20	R4143736	1	· HOSE ASSEMBLY, #6 X 20"		
			DRAWING, AFTER GEARBOX HOSE GROUP (R428962804)		

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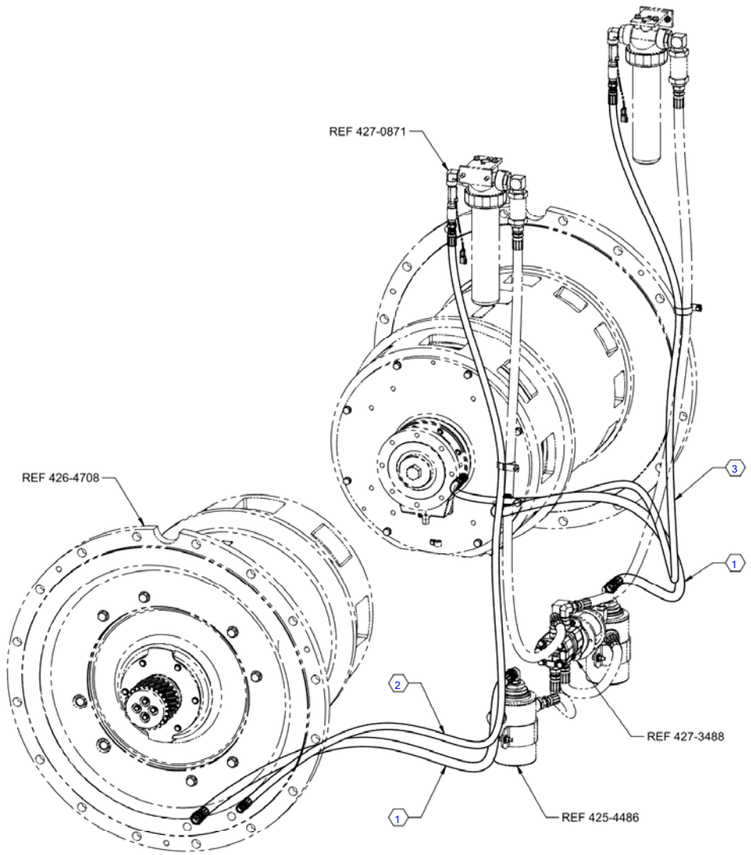
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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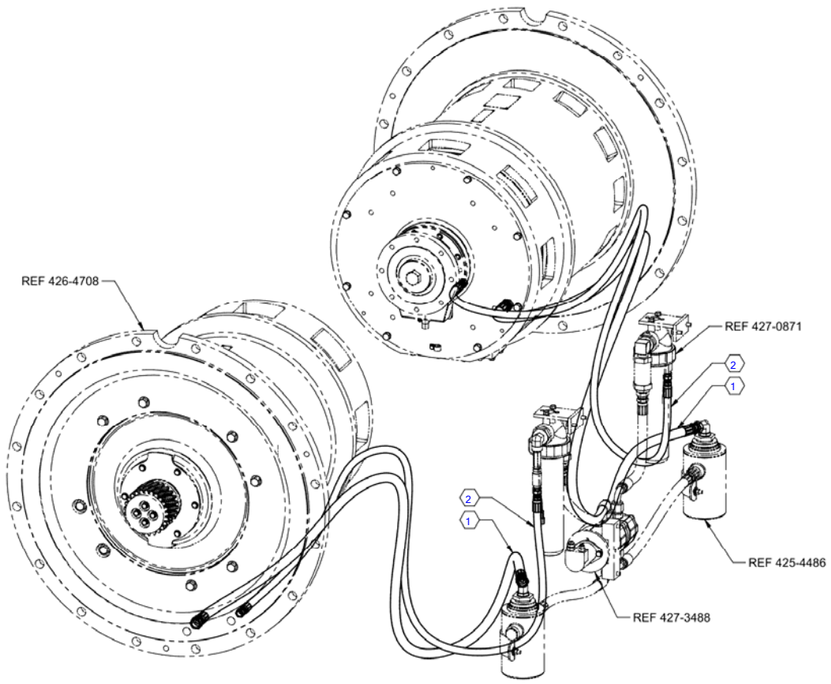
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MOTOR DRIVER SUB-ASSEMBLY HOSE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASE	NL12-1886	11-12	RAH	JBD	JBD



FRONT DRIVER HOSE LAYOUT



REAR DRIVER HOSE LAYOUT

REF 427-8033 GP HW DRIVER FILTER L1350G2 **FOR FRONT FRAME PUMP & HARDWARE INSTALLATION**

REF 427-8034 GP HOSE FRONT DRIVER L1350G2 **FOR FRONT FRAME PUMP TO FILTER HOSE INSTALLATION**

REF 427-9430 REF FLUID PWR DIAGRAM L1350 **FOR SCHEMATIC**

Item	Part No.	Qty	Description
3	4031016	1	HOSE 2000 8 120.0 0J 0J
2	4098409	3	HOSE 2000 8 102.0 0J 0J
1	4177394	4	HOSE 1250 12 103.0 0J 0J

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- TOLERANCES ON: ANGLES ±1°; FRACTIONS ±1/16; .XX DECIMAL ±.03; .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	rhyatt	10-23-12
CHK	JBD	11-12-12
ENGR	JBD	11-12-12
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau

GP HOSE MTR DVR SUBASY L1350G2

SIZE D | DO OT SALE | DWG NO. 4278036 | REV 00

SCALE 1/8 | EST WT 84.8 lbm | SHEET 1 OF 1

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MOTOR DRIVER SUB-ASSEMBLY HOSE GROUP

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4278036		MOTOR DRIVER SUB-ASSEMBLY HOSE GROUP		
1	R4177394	4	· HOSE ASSEMBLY, #12 X 103"		
2	R4098409	3	· HOSE ASSEMBLY, #8 X 102"		
3	R4031016	1	· HOSE ASSEMBLY, #8 X 120"		
			DRAWING, MOTOR DRIVER SUB-ASSEMBLY HOSE GROUP (R427803600)		

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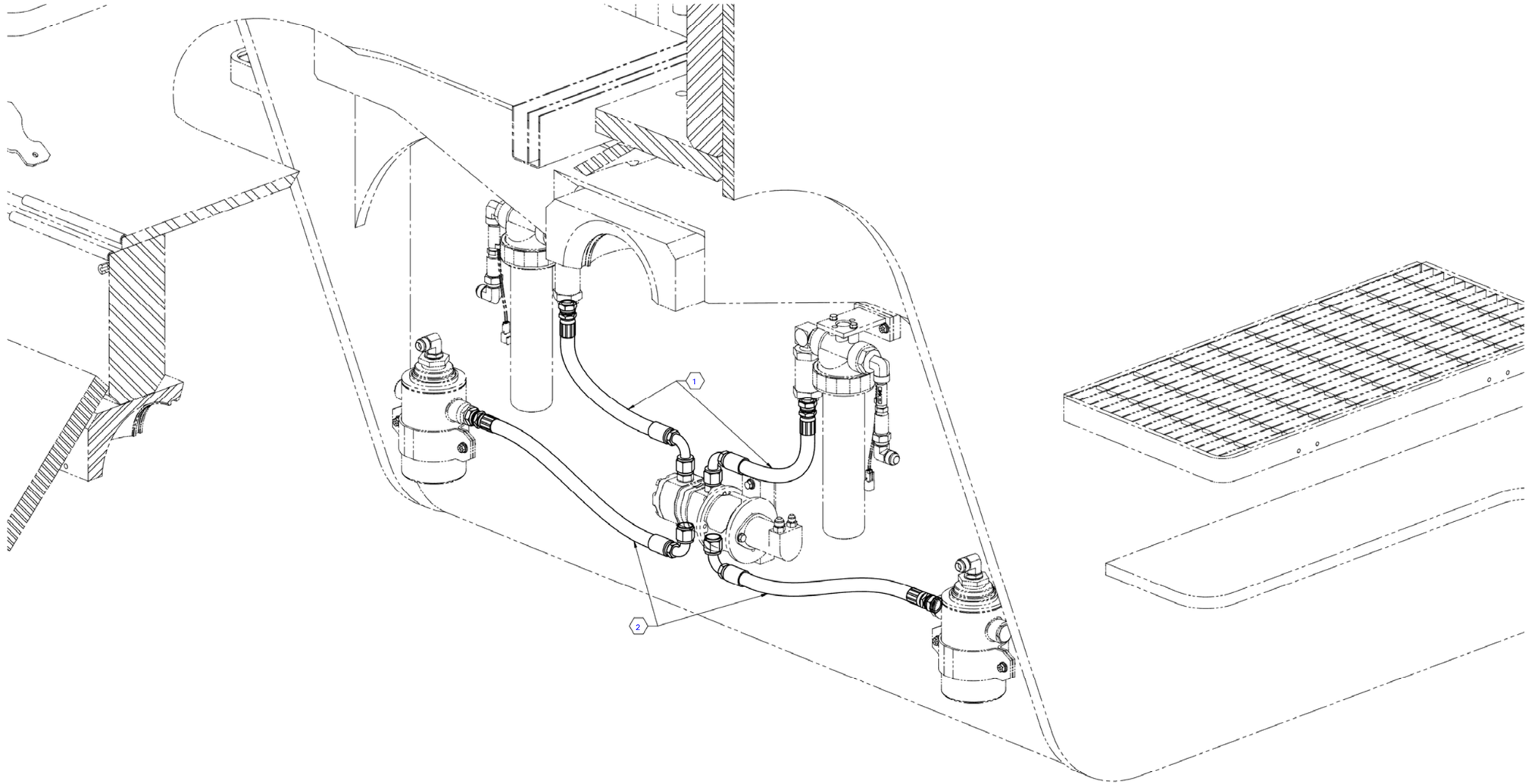
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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REAR DRIVER HOSE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASED	NL13-1602	2-4	TEW	JBD	JBD



REFERENCE DRAWINGS:

4280219 GP HDW DRIVER FILTER L1350 G2
4278036 GP HOSE MTR DRV SUBASSY L1350 G2

ITEM	PART NO.	QTY	DESCRIPTION
2	4243502	2	HOSE 12250 12 25.0 0J 90J
1	4222057	2	HOSE 1250 12 20.0 0J 90J

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- TOLERANCES ON: ANGLES ±1° | FRACTIONS ±1/16 | .XX DECIMAL ±.03 | .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO
428-0228

		DATE
DWN	twillis	1-15-12
CHK	JBD	2-4-13
ENGR		
PROD ENGR	JBD	2-4-13
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HOSE REAR DRIVER L1350G2

SIZE D | DO NOT SALE | DWG NO. 4280220 | REV 00

SCALE 1/4 | EST WT 92.5 lbm | SHEET 1 OF 1

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REAR DRIVER HOSE GROUP

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REAR DRIVER HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280220		REAR DRIVER HOSE GROUP		
1	R4222057	2	· HOSE ASSEMBLY, #12 X 20"		
2	R4243502	2	· HOSE ASSEMBLY, #12 X 25"		
			DRAWING, REAR DRIVER HOSE GROUP (R428022000)		

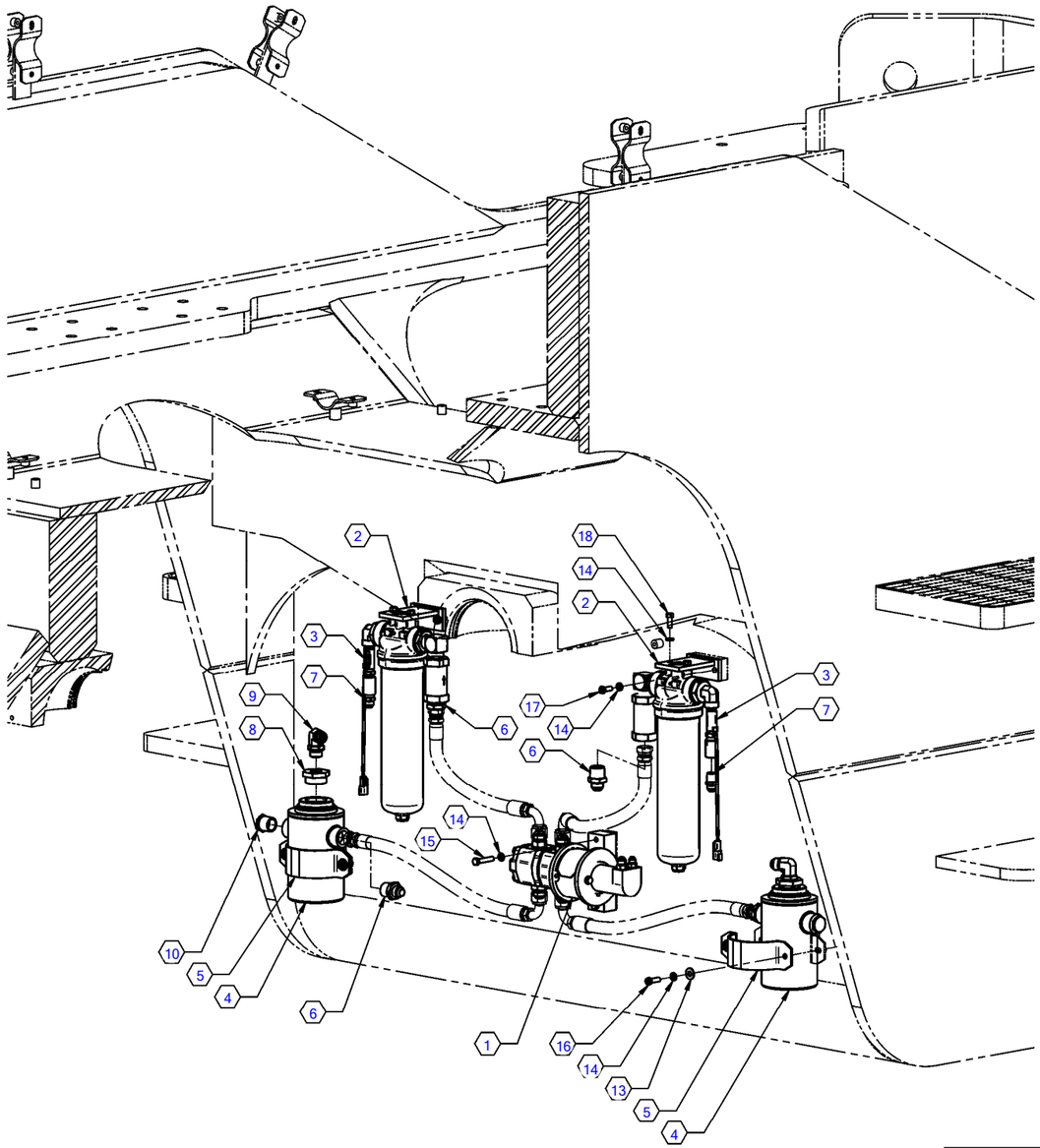
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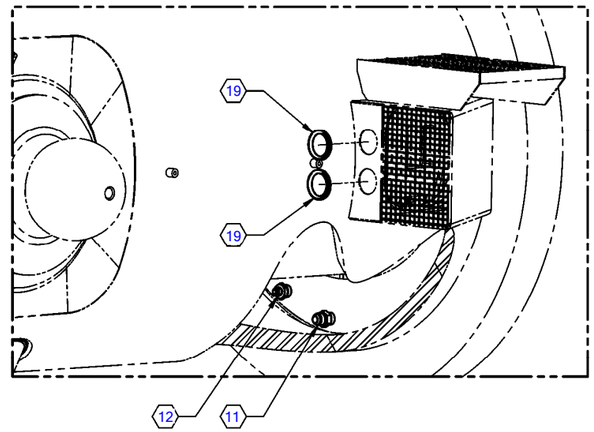
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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REAR FRAME DRIVER FILTRATION HARDWARE GROUP





REAR AXLE

TYP BOTH ENDS

ITEM	PART NO.	QTY	DESCRIPTION
19	4275723	4	GROMMET 2-1/4 DIAMETER
18	0836039	4	BOLT HX .375 1.000 NF G8
17	0810971	4	BOLT HX .375 1.000 NC G8 FT
16	0808476	4	BOLT HX .375 1.250 NC G8
15	4009641	2	BOLT HX .375 2.000 NC G8
14	0753123	14	WASHER LOCK SPR .375 .68 .09
13	0233042	4	WASHER FLAT .375 1.00 .10
12	4040550	2	FTG HYD 0 8 MJ 12 MO JUMP
11	4002457	2	FTG HYD 0 12 MJ 12 MO
10	4223340	2	PIPE PLUG HX 1.000
9	4002473	2	HYD FITTING, 90 12 MJ 12 MO
8	4243516	2	FTG HYD 0°24MO 12FO
7	4018666	2	FTG HYD 0 8 MJ 8 MP JUMP
6	4040561	4	FTG HYD 0 12 MJ 16 MP
5	0987622	2	CLAMP HALF 5 INCH
4	4254486	2	ASSEMBLY FILTER
3	4288447	2	ASSY DRIVER FILTER
2	4238033	2	STR FILTER MOUNT
1	4273488	1	ASSY M/P DR FILTER RF L1850 G2

REF 428-0220 GP HOSE REAR DRIVER L1350G2
FOR HOSE INSTALLATION

REF 428-4960 REF FLUID POWER DIA L1250 G3
FOR OTHER L1250 G3 FLUID POWER GROUPS

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR RINSH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.03 XXX DECIMA ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

USED ON: 428-9623

		DATE
DWN	rhyatt	2-17-17
CHK	EER	2-17-17
ENGR	EER	2-17-17
PROD ENGR		
PROJ APPROVAL	JBD	2-17-17
MATL		

JOYGLOBAL

GP HDW DRIVER FILTER RF L1250G3

SIZE	DO NOT SCALE	DWG	REV
C		4288449	00

SCALE 1:8 | EST WT 85.7 lbm | SHEET 1 OF 1

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REAR FRAME DRIVER FILTRATION HARDWARE GROUP

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REAR FRAME DRIVER FILTRATION HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288449		REAR FRAME DRIVER FILTRATION HARDWARE GROUP		
1	R4273488	1	· DRIVER FILTRATION MOTOR/PUMP ASSEMBLY - FRONT FRAME (PAGE 8.48-8.48B)		
2	R4238033	2	· MOUNT STRUCTURE, FILTER		
3	R4288447	2	· DRIVER FILTER ASSEMBLY (PAGE 8.73-8.73A)		
4	R4254486	2	· SUCTION FILTER ASSEMBLY (PAGE 8.72-8.72A)		
5	R0987622	2	· CLAMP HALF, 5"		
6	R4040561	4	· ADAPTER, 1" MP X #12 MJ		
7	R4018666	2	· ADAPTER, 1/2" MP X #8 MJ		
8	R4243516	2	· REDUCER, #12 FO X #24 MO		
9	R4002473	2	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
10	R4223340	2	· PLUG, PIPE - 1", HEX HD.		
11	R4002457	2	· ADAPTER, #12 MO X #12 MJ		
12	R4040550	2	· ADAPTER, #12 MO X #8 MJ		
13	R0233042	4	· FLATWASHER, 3/8"		
14	R0753123	14	· LOCKWASHER, 3/8"		
15	R4009641	2	· BOLT, 3/8"-16 X 2"		
16	R0808476	4	· BOLT, 3/8"-16 X 1-1/4"		
17	R0810971	4	· BOLT, 3/8"-16 X 1"		
18	R0836039	4	· BOLT, 3/8"-24 X 1"		
19	R4275723	4	· GROMMET, 2" I.D.		
			DRAWING, REAR FRAME DRIVER FILTRATION HARDWARE GROUP (R428844900)		

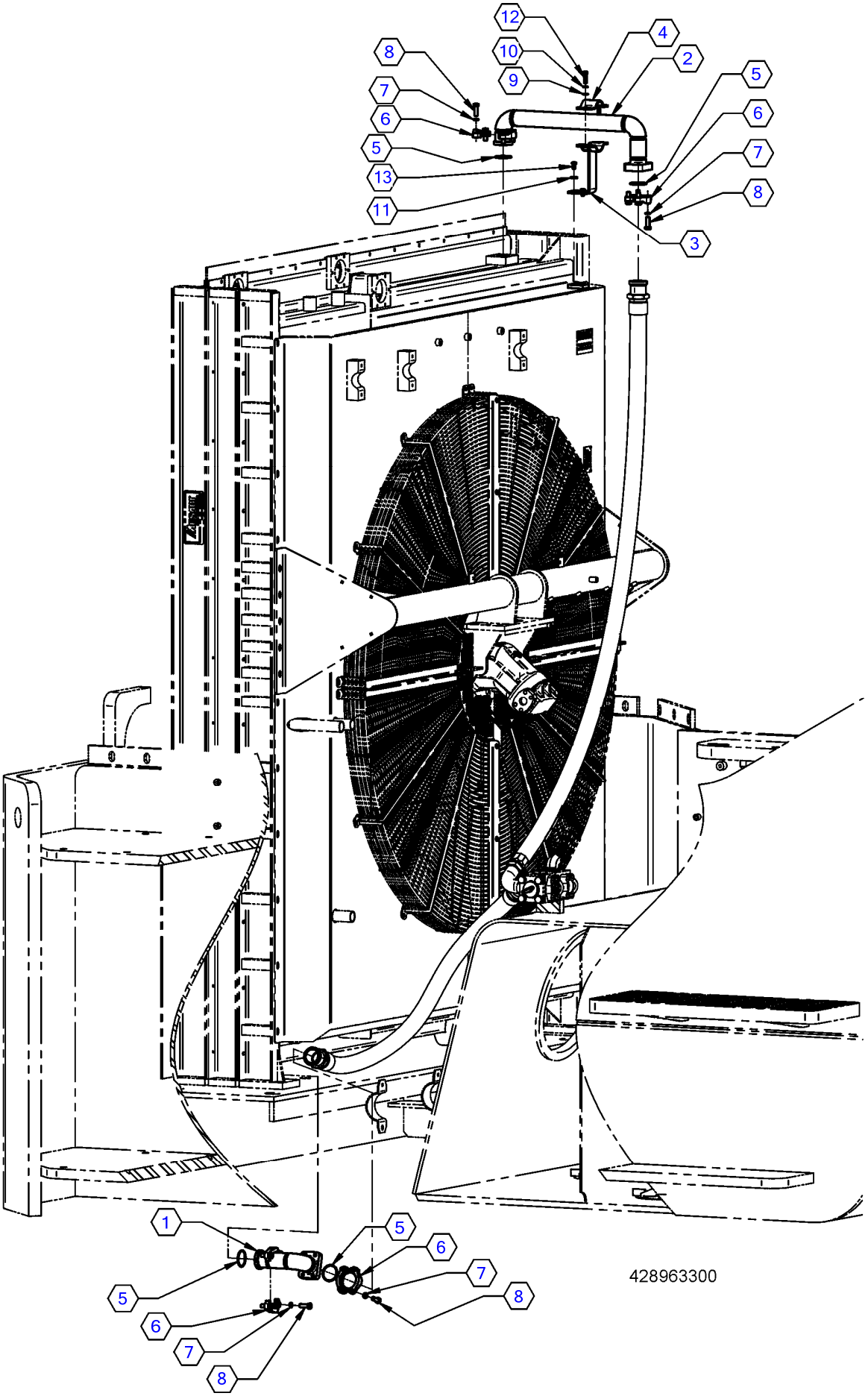
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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RADIATOR HARDWARE GROUP



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RADIATOR HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289633		RADIATOR HARDWARE GROUP		
1	R4222481	1	· ELBOW STRUCTURE		
2	R4288431	1	· ELBOW STRUCTURE		
3	R4288434	1	· BRACE STRUCTURE, ELBOW		
4	R4237810	1	· CLAMP HALF, 2-1/2"		
5	R4071255	4	· O-RING, 2-1/4" I.D. - POLYURETHANE		
6	R4223453	8	· FLANGE HALF, 2"		
7	R4210349	16	· FLATWASHER, 1/2" - HARDENED		
8	R4009753	16	· BOLT, 1/2"-13 X 1-1/2"		
9	R0808221	2	· FLATWASHER, 3/8"		
10	R0753123	2	· LOCKWASHER, 3/8"		
11	R4223102	2	· FLATWASHER, 3/8" I.D. X 1" O.D. X 1/16" - CONICAL		
12	R4009640	2	· BOLT, 3/8"-16 X 1-1/2"		
13	R0810970	2	· BOLT, 3/8"-16 X 3/4"		
			DRAWING, RADIATOR HARDWARE GROUP (R428963300)		

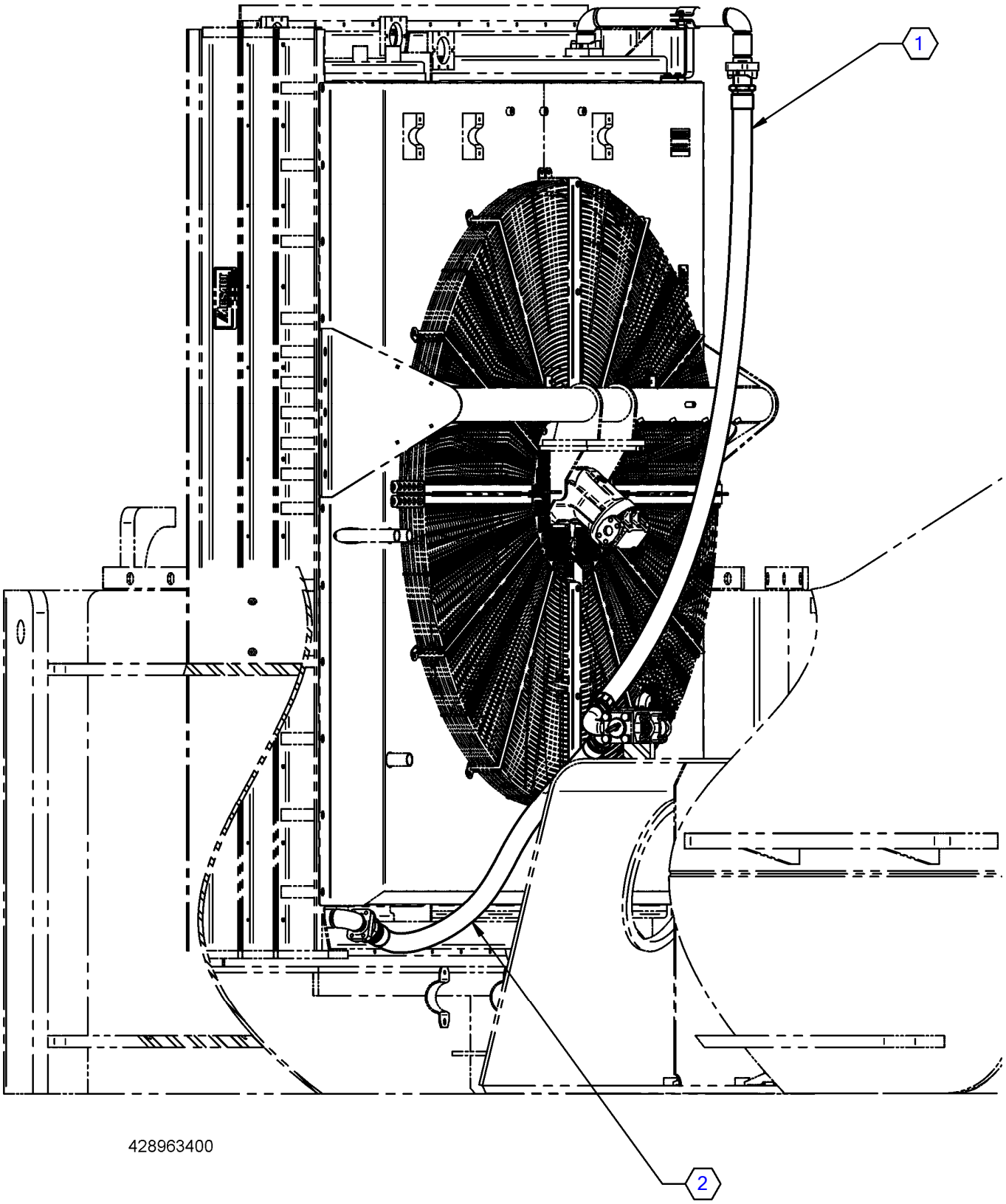
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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RADIATOR HOSE GROUP



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RADIATOR HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4289634		RADIATOR HOSE GROUP		
1	R4288428	1	· HOSE ASSEMBLY, #32 X 117"		
2	R4243879	1	· HOSE ASSEMBLY, #32 X 59"		
			DRAWING, RADIATOR HOSE GROUP (R428963400)		

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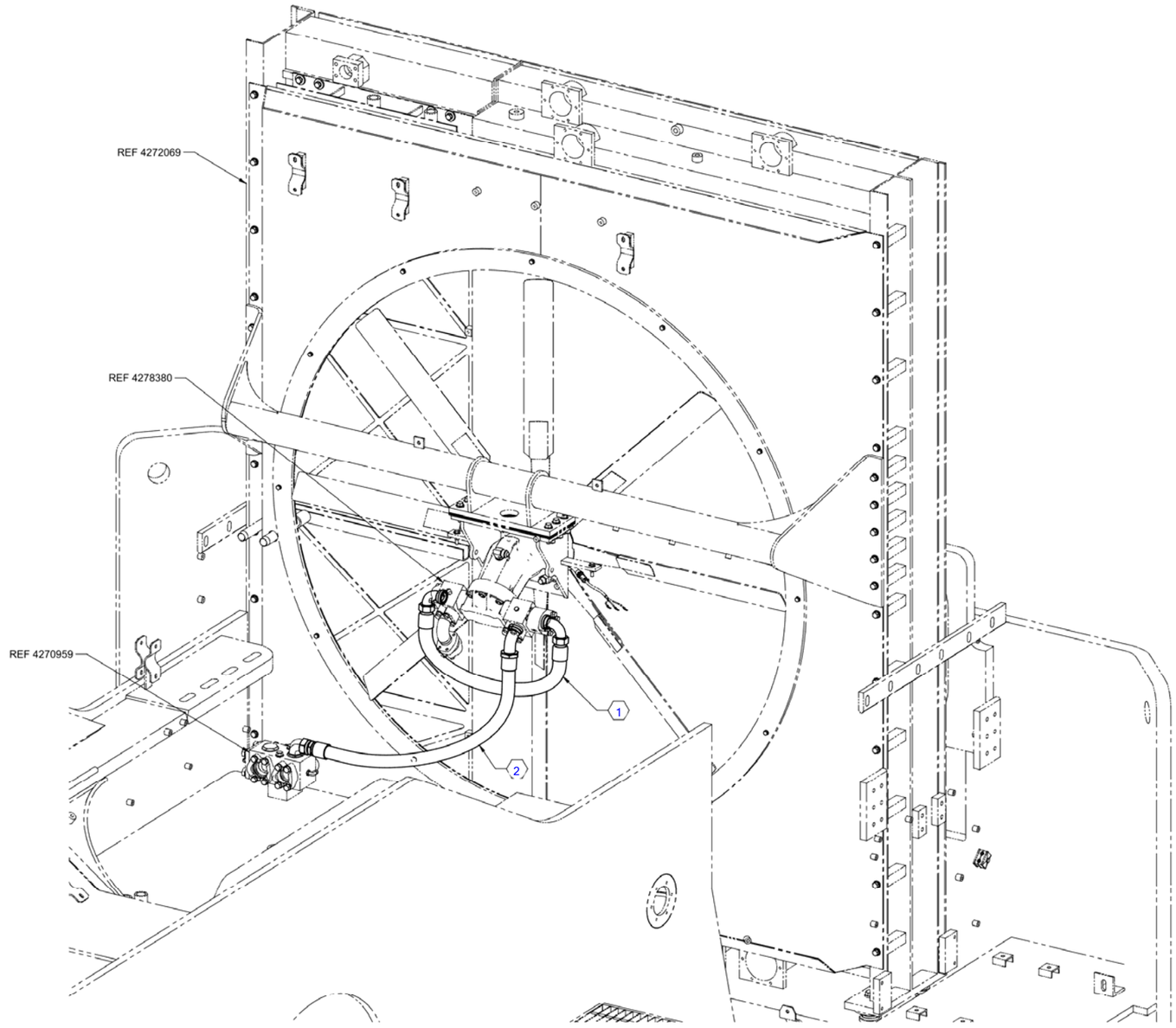
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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RADIATOR SUB-ASSEMBLY HOSE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASE	NL13-1602	2-4	TEW	JBD	JBD



ITEM	PART NO.	QTY	DESCRIPTION
2	4279389	1	HOSE 625 20 45.0 0J 45F
1	4222042	1	HOSE 3000 20 44.0 90F 90F

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UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° | FRACTIONS ±1/16 | .XX DECIMAL ±.03 | .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	twillis	1-15-13
CHK	JBD	2-4-13
ENGR		
PROD ENGR	JBD	2-4-13
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HOSE RDTR SUB-ASSY L1350 G2

SIZE	DO NOT SALE	DWG NO.	REV
D		4280221	00

SCALE 1/8 | EST WT 13.6 lbm | SHEET 1 OF 1

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RADIATOR SUB-ASSEMBLY HOSE GROUP

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RADIATOR SUB-ASSEMBLY HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280221		RADIATOR SUB-ASSEMBLY HOSE GROUP		
1	R4222042	1	· HOSE ASSEMBLY, #20 X 44"		
2	R4279389	1	· HOSE ASSEMBLY, #20 X 45"		
			DRAWING, RADIATOR SUB-ASSEMBLY HOSE GROUP (R428022100)		

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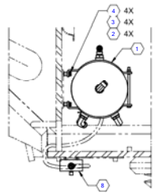
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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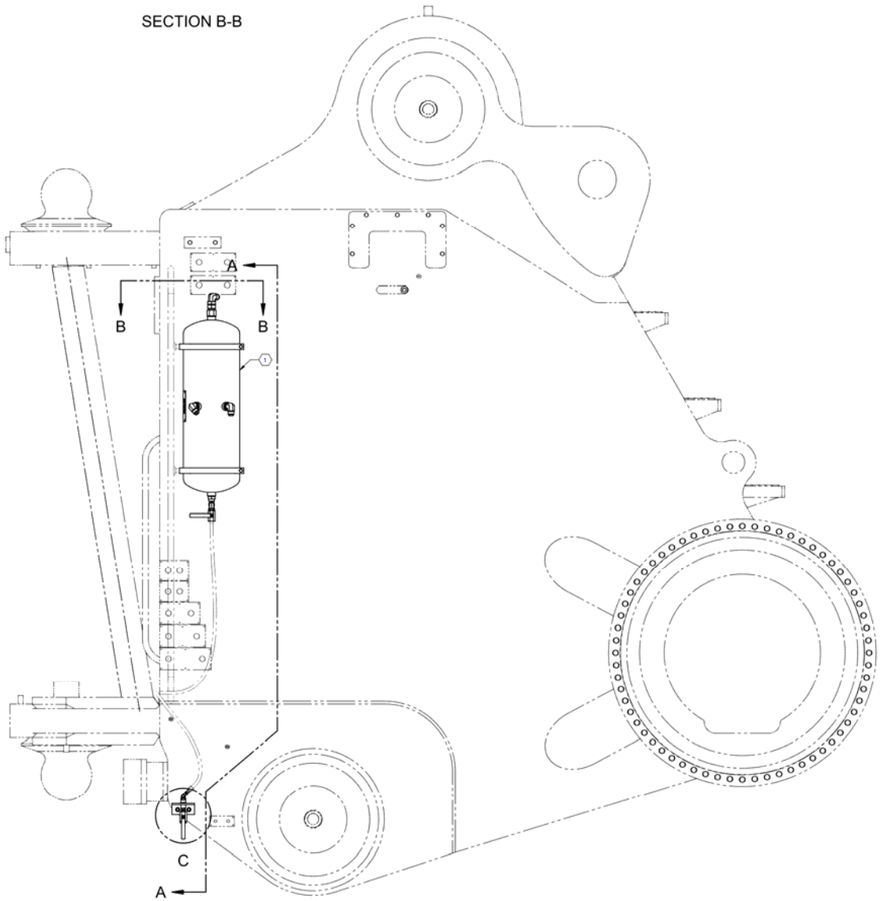
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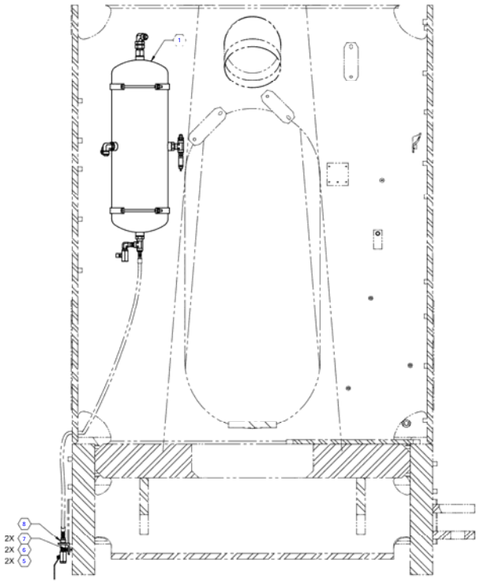
FRONT FRAME AIR SUPPLY HARDWARE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	NL12-1886	5-6	TEW	JBD	JBD
	01	ADD REF 4264642 MDG HOSE GP NOTE	1322014	1-28	KMD	JBD	JBD

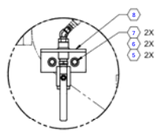


SECTION B-B





SECTION A-A



DETAIL C

REF 4280261 GP HOSE AIR SUPPLY FF L1350 G2 **FOR HOSE INSTALLATION**

1 **REF 4284642** GP HSEM GP HSEM AIR SUPPLY FF L1350G2 **FOR MDG HOSE INSTALLATION**

ITEM	PART NO.	QTY	DESCRIPTION
8	4277968	1	ASSY AIR RESERVOIR BLEED FRONT
7	0810986	2	BOLT HX .250 .750 NC G8 FT
6	0213584	2	WASHER LOCK SPR .25 .49 .06
5	0021546	2	WASHER FLAT .312 .734 .065
4	0186619	4	BOLT HX .375 1.13 NC G8 FT
3	0753123	4	WASHER LOCK SPR .375 .68 .09
2	0808221	4	WASHER FLAT .375 .81 .08
1	4277972	1	ASSY AIR RESERVOIR FRONT

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, XX DECIMAL ±.03, XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO

DWN	twillis	5-6-13
CHK	JBD	5-6-13
ENGR		
PROD ENGR	JBD	5-6-13
PROJ APPROVAL		
MATL		

JOYGLOBAL

GP HW AIR SUPPLY FF L1350 G2

SIZE E | DO NOT SALE | DWG NO. 4280260 | REV 01

SCALE 1/8 | WT. KT. 42.5 lbm | SHEET 1 OF 1

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280260		FRONT FRAME AIR SUPPLY HARDWARE GROUP		
1	R4277972	1	· FRONT AIR RESERVOIR ASSEMBLY (PAGE 8.47-8.47B)		
2	R0808221	4	· FLATWASHER, 3/8"		
3	R0753123	4	· LOCKWASHER, 3/8"		
4	R0186619	4	· BOLT, 3/8"-16 X 1-1/8"		
5	R0021546	2	· FLATWASHER, 1/4"		
6	R0213584	2	· LOCKWASHER, 1/4"		
7	R0810986	2	· BOLT, 1/4"-20 X 3/4"		
8	R4277968	1	· FRONT AIR RESERVOIR BLEED ASSEMBLY		
	R4261747	1	· · DRAIN MOUNT STRUCTURE		
	R4013787	1	· · BUSHING, 1/4" FP X 3/8" MP		
	R4193354	1	· · ELBOW, 1/4" MP X 45 deg. X #4 MJ		
	R4032312	1	· · NIPPLE, PIPE - 3/8", HEX		
	R4152842	1	· · VALVE, BALL - 3/8"		
			DRAWING, FRONT FRAME AIR SUPPLY HARDWARE GROUP (R428026001)		

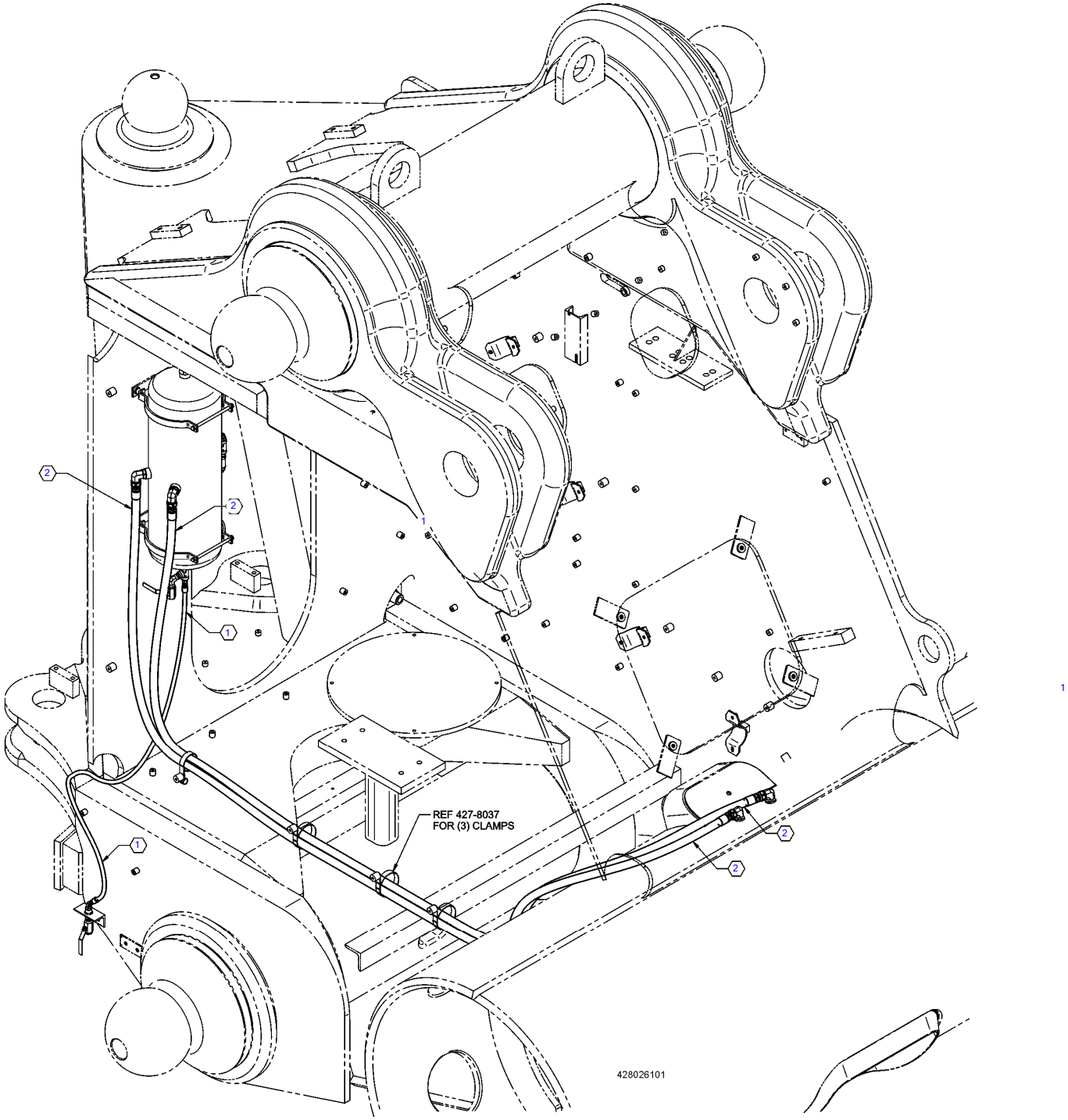
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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FRONT FRAME AIR SUPPLY HOSE GROUP



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FRONT FRAME AIR SUPPLY HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280261		FRONT FRAME AIR SUPPLY HOSE GROUP		
1	R4089126	1	· HOSE ASSEMBLY, #4 X 70"		
2	R4148929	2	· HOSE ASSEMBLY, #12 X 156"		
			DRAWING, FRONT FRAME AIR SUPPLY HOSE GROUP (R428026101)		

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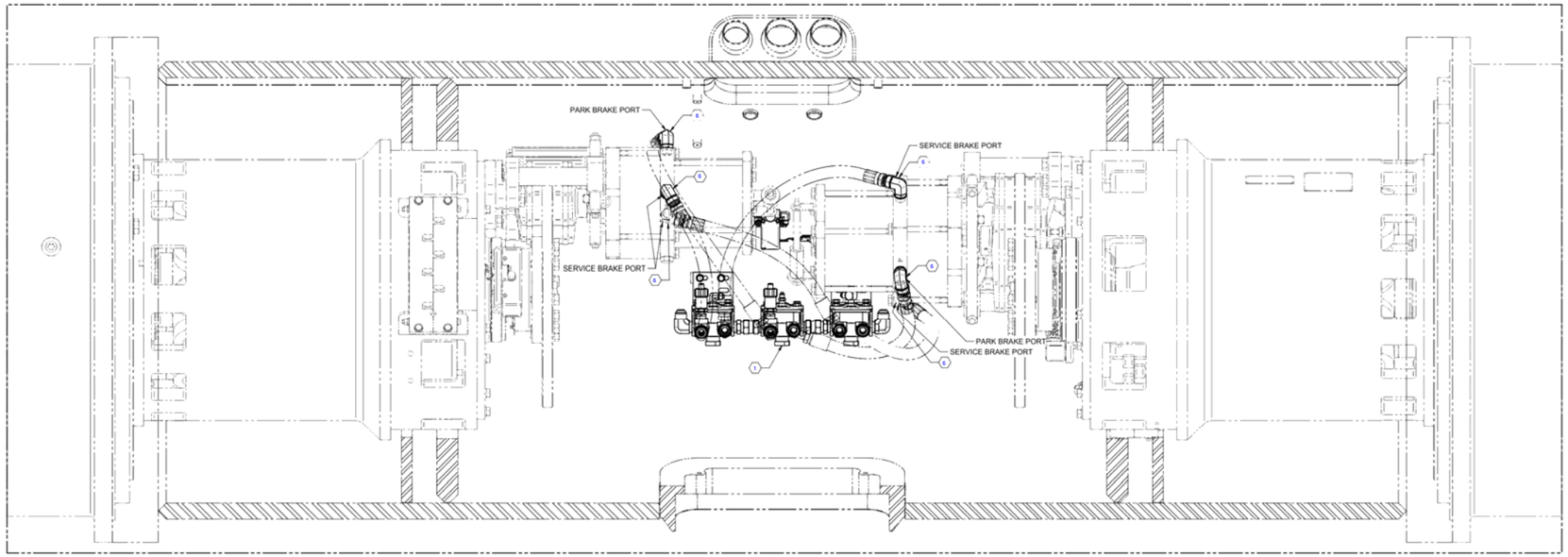
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

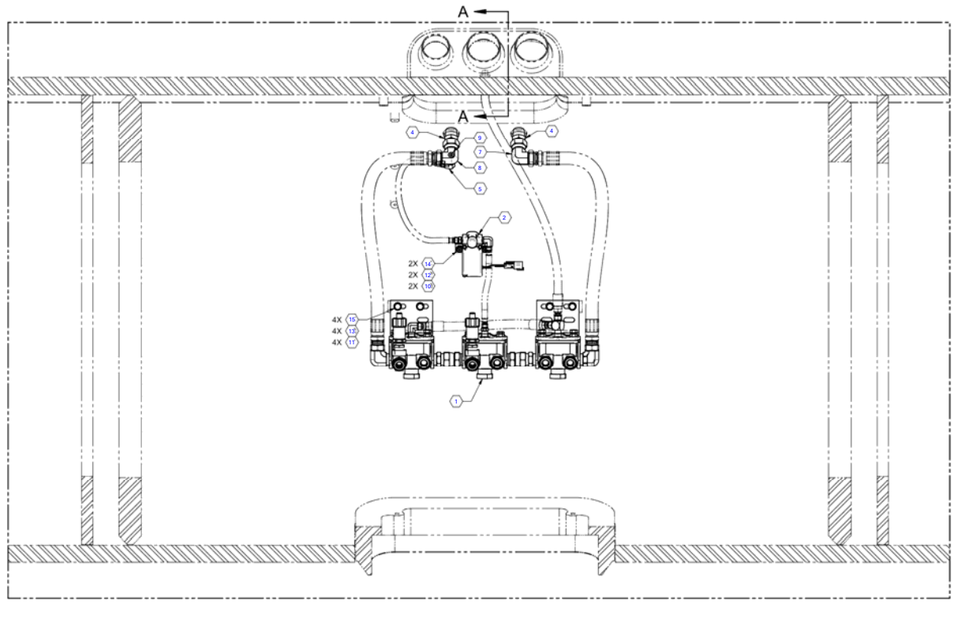
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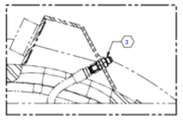
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FRONT BRAKE HARDWARE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	NL13-1602	3-28	TEW	JBD	JBD
	01	ADD REF 4284644 MDG HOSE GP NOTE	1322014	1-29	KMD	JBD	JBD







SECTION A-A

ITEM	PART NO.	QTY	DESCRIPTION
15	0988144	4	BOLT HX .313 .750 NC G8 FT
14	0417597	2	BOLT HEX .250 .500 NC G8 FT
13	0264174	4	WASHER LOCK SPR .323 .59 .08
12	0213584	2	WASHER LOCK SPR .25 .49 .06
11	0753118	4	WASHER FLAT .313 .69 .08
10	4010923	2	WASHER FLAT .250 .63 .08
9	0272969	1	PIPE PLUG .250 CS HX
8	4244689	1	FTG HYD 90 12 MJ 12 FJ MOD
7	4002481	1	FTG HYD 90 12 MJ 12 FJ SWVL
6	4081386	6	FTG HYD 90 12 MJ 10 MO
5	4011748	1	FTG HYD 90 .4 MJ .4 MP JUMP
4	4002422	2	FTG HYD .0 12 MJ 12 MP
3	4051616	1	FTG HYD .0 .6 MJ .6 MJ BH
2	4277970	1	ASSY AIR SOLENOID FRONT
1	4273474	1	ASSY RELAY VALVE L1350

REF 4280248 GP HOSE BRAKE FRONT L1350 G2
FOR HOSE INSTALLATION

1 **REF 4284644** GP HSEM PRE BRAKE FRONT L1350 G2
FOR MDG HOSE INSTALLATION

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UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1°; FRACTIONS ±1/16; XX DECIMAL ±.03; XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	twillis	3-28-13
CHK	JBD	3-28-13
ENGR		
PROD ENGR	JBD	3-28-13
PROJ APPROVAL		
MATL		

JOYGLOBAL

GP HDW BRAKE FRONT L1350 G2

SIZE E | DO NOT SALE | DWG NO 4280247 | REV 01

SCALE 1/4 | SCF WT 39.9 lbm | SHEET 1 OF 1

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FRONT BRAKE HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280247		FRONT BRAKE HARDWARE GROUP		
1	R4273474	1	· FRONT RELAY VALVE ASSEMBLY (PAGE 8.53-8.53A)		
2	R4277970	1	· FRONT AIR SOLENOID ASSEMBLY		
	R4261177	1	· · SOLENOID KIT, AIR - 24V		
	R4039803	1	· · · SOLENOID, AIR - 24V		
	R4255415	1	· · · RECEPTACLE, DT04-2P		
	R4255416	1	· · · WEDGE, W2P		
	R4185763	2	· · · PIN, CONTACT - 16		
	R4016785	1	· · ADAPTER, 1/4" MP X #4 MJ		
	R4162499	1	· · VENT, BREATHER - 1/4"-18		
	R4011748	1	· · ELBOW, 1/4" MP X 90 deg. X #4 MJ		
3	R4051616	1	· ADAPTER, #6 MJ X #6 MJ - BULKHEAD		
4	R4002422	2	· ADAPTER, 3/4" MP X #12 MJ		
5	R4011748	1	· ELBOW, 1/4" MP X 90 deg. X #4 MJ		
6	R4081386	6	· ELBOW, #10 MO X 90 deg. X #12 MJ		
7	R4002481	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
8	R4244689	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ		
9	R0272969	1	· PLUG, PIPE - 1/4", HEX CSK.		
10	R4010923	2	· FLATWASHER, 1/4"		
11	R0753118	4	· FLATWASHER, 5/16"		
12	R0213584	2	· LOCKWASHER, 1/4"		
13	R0264174	4	· LOCKWASHER, 5/16"		
14	R0417597	2	· BOLT, 1/4"-20 X 1/2"		
15	R0988144	4	· BOLT, 5/16"-18 X 3/4"		
			DRAWING, FRONT BRAKE HARDWARE GROUP (R428024701)		

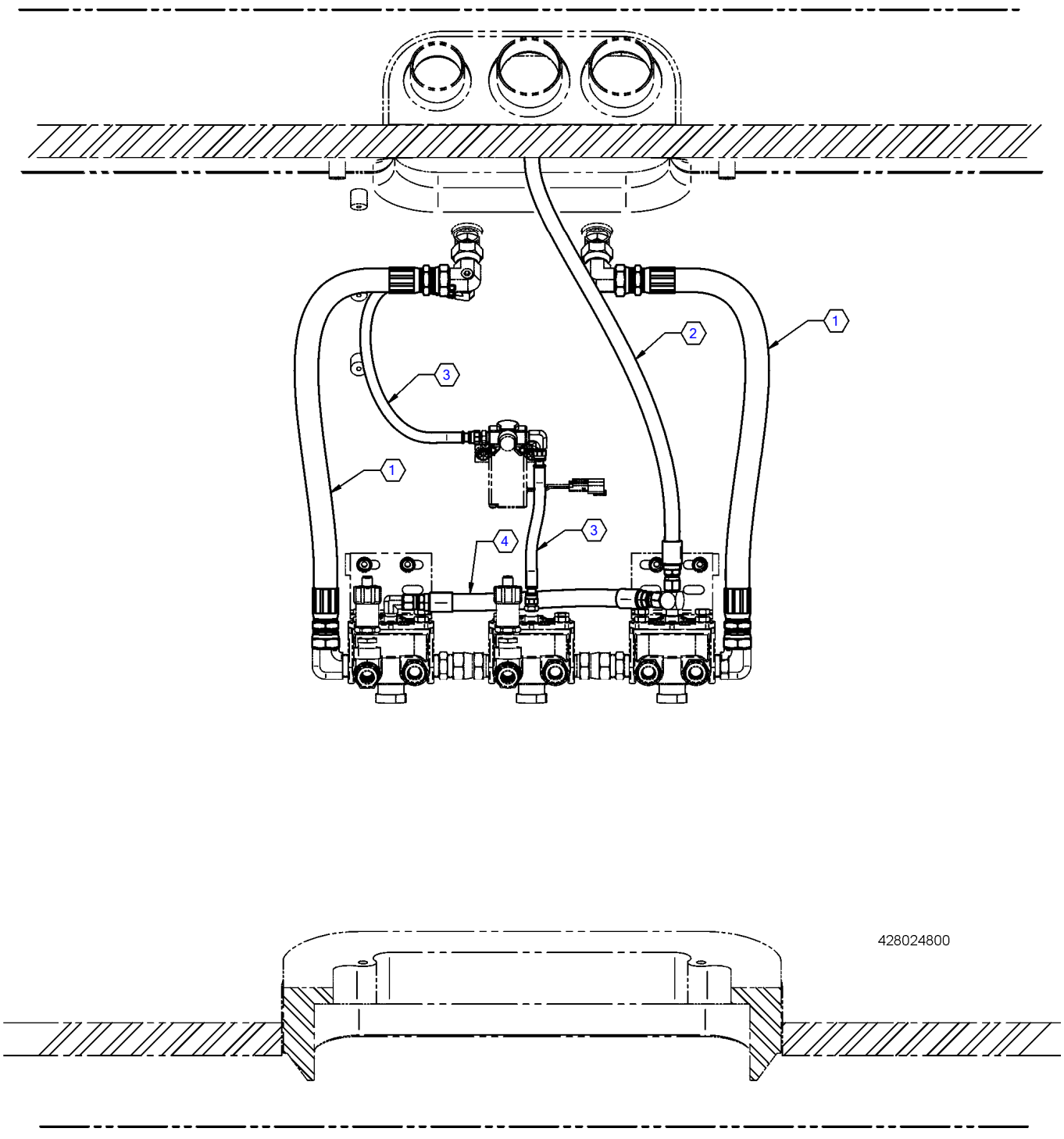
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FRONT PRE BRAKE HOSE GROUP



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FRONT PRE BRAKE HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280248		FRONT PRE BRAKE HOSE GROUP		
1	R4078315	2	· HOSE ASSEMBLY, #12 X 30"		
2	R9242071	1	· HOSE ASSEMBLY, #6 X 28"		
3	R4155483	2	· HOSE ASSEMBLY, #4 X 12"		
4	R4069124	1	· HOSE ASSEMBLY, #6 X 14"		
			DRAWING, FRONT PRE BRAKE HOSE GROUP (R428024800)		

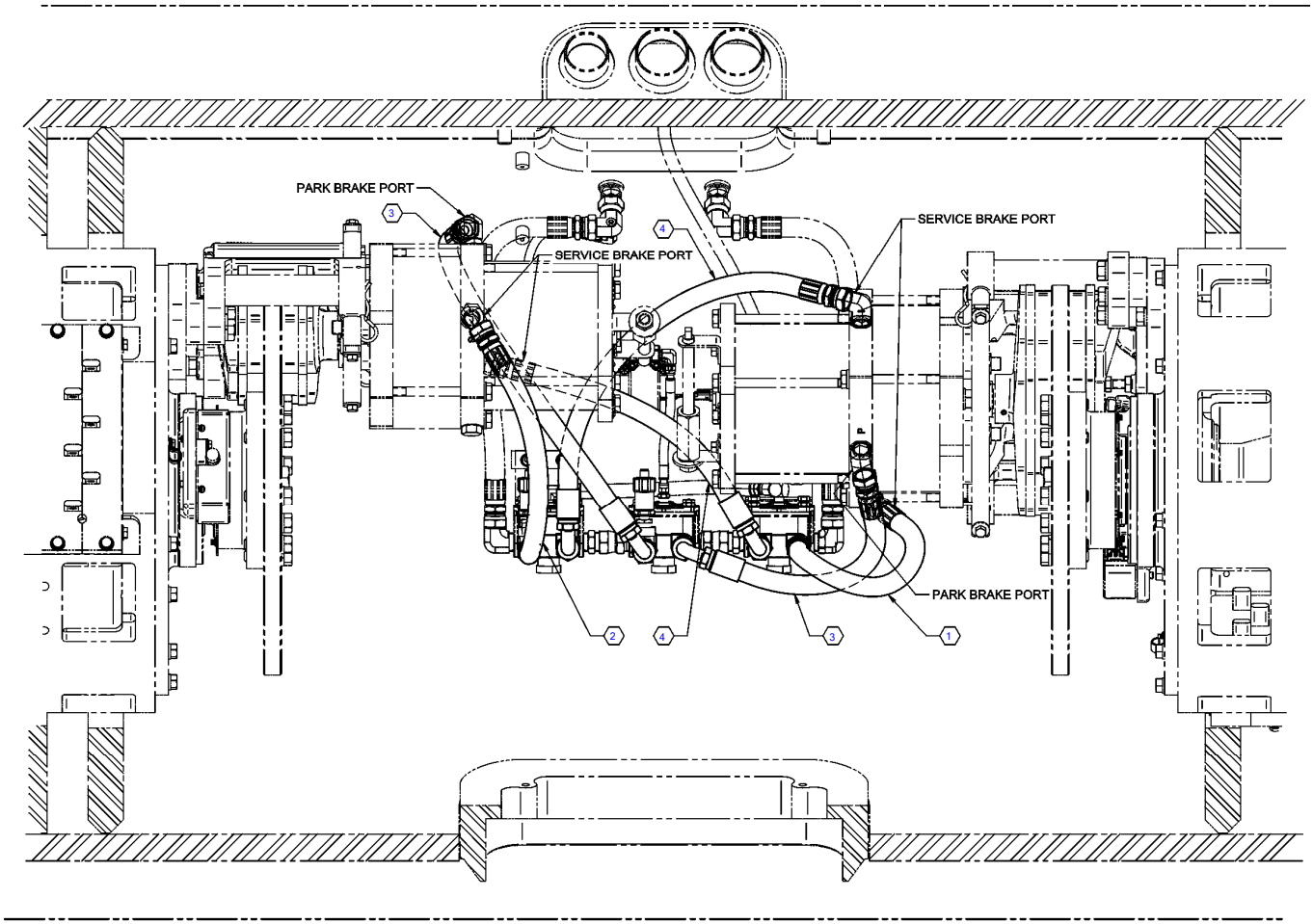
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FRONT POST BRAKE HOSE GROUP



428025800

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FRONT POST BRAKE HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280258		FRONT POST BRAKE HOSE GROUP		
1	R4079178	1	· HOSE ASSEMBLY, #12 X 32"		
2	R4226500	1	· HOSE ASSEMBLY, #12 X 25"		
3	R4243530	2	· HOSE ASSEMBLY, #12 X 22"		
4	R4243502	2	· HOSE ASSEMBLY, #12 X 25"		
			DRAWING, FRONT POST BRAKE HOSE GROUP (R428025800)		

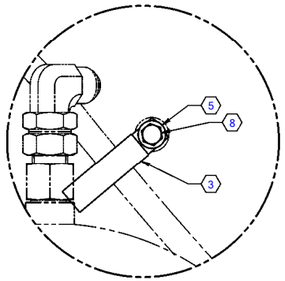
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

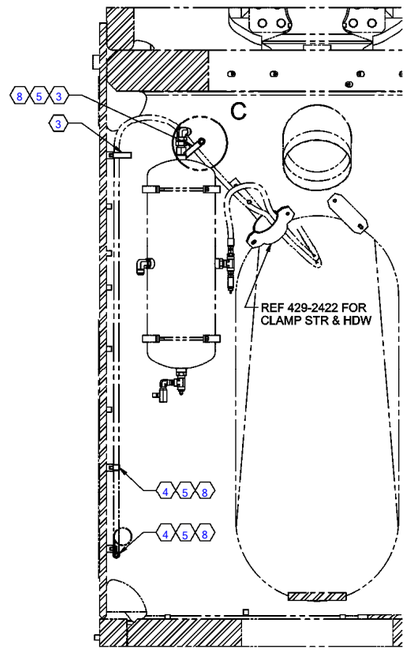
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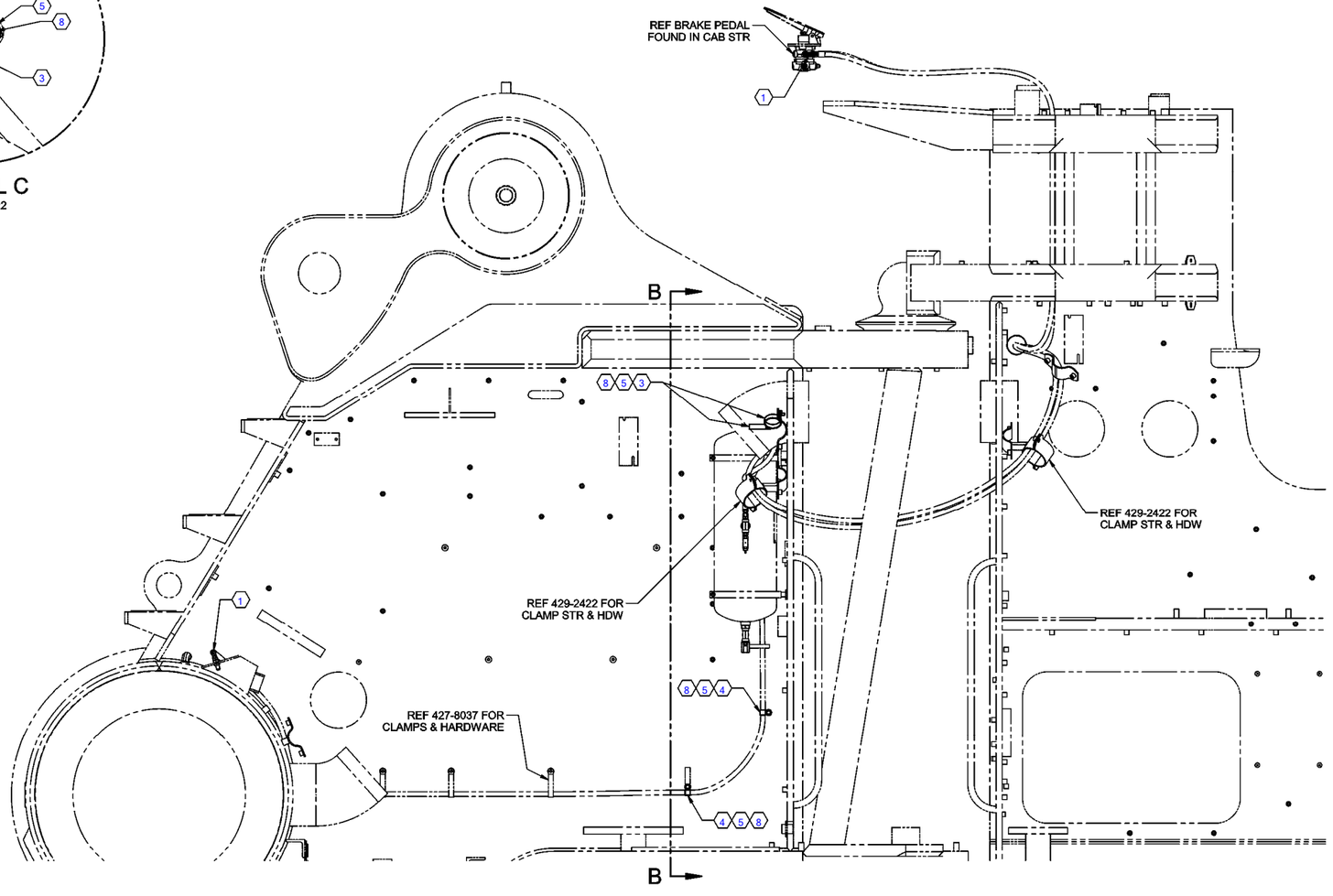
PIVOT LOOP AIR HARDWARE GROUP



DETAIL C
SCALE 1:2



SECTION B-B



ITEM	PART NO.	QTY	DESCRIPTION
8	0810970	4	BOLT HX .375 .750 NC G8 FT
5	0808221	4	WASHER FLAT .375 .81 .08
4	4274399	2	CLAMP CABLE INSL .75 .406
3	4065747	2	CLAMP CABLE INSL 2.50 .406
1	4002478	2	FTG HYD 90 6 MJ 6 FJ SWVL

REF 428-8498 GP HOSE PIVOT LOOP AIR L1350 G3
FOR STD HOSE INSTALLATION

REF 428-8499 GP HSEM PIVOT LOOP AIR L1350 G3
FOR MDG-41 HOSE INSTALLATION

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-8528

		DATE
DWN	rhyatt	5-11-17
CHK	EER	5-11-17
ENGR	EER	5-11-17
PROD ENGR		
PROJ APPROVAL	JBD	5-11-17
MATL		

JOYGLOBAL

GP HDW PIVOT LOOP AIR L1350 G3

SIZE D | DO NOT SCALE | DWG NO. 4288497 | REV 03

SCALE 1:10 | EST WT 0.8 lbm | SHEET 1 OF 1

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PIVOT LOOP AIR HARDWARE GROUP

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288497		PIVOT LOOP AIR HARDWARE GROUP		
1	R4002478	2	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
2	N.P.N.		· NOT USED		
3	R4065747	2	· CLAMP, CABLE - 2-1/2"		
4	R4274399	2	· CLAMP, CABLE - INSULATED, 3/4"		
5	R0808221	4	· FLATWASHER, 3/8"		
6	N.P.N.		· NOT USED		
7	N.P.N.		· NOT USED		
8	R0810970	4	· BOLT, 3/8"-16 X 3/4"		
			DRAWING, PIVOT LOOP AIR HARDWARE GROUP (R428849703)		

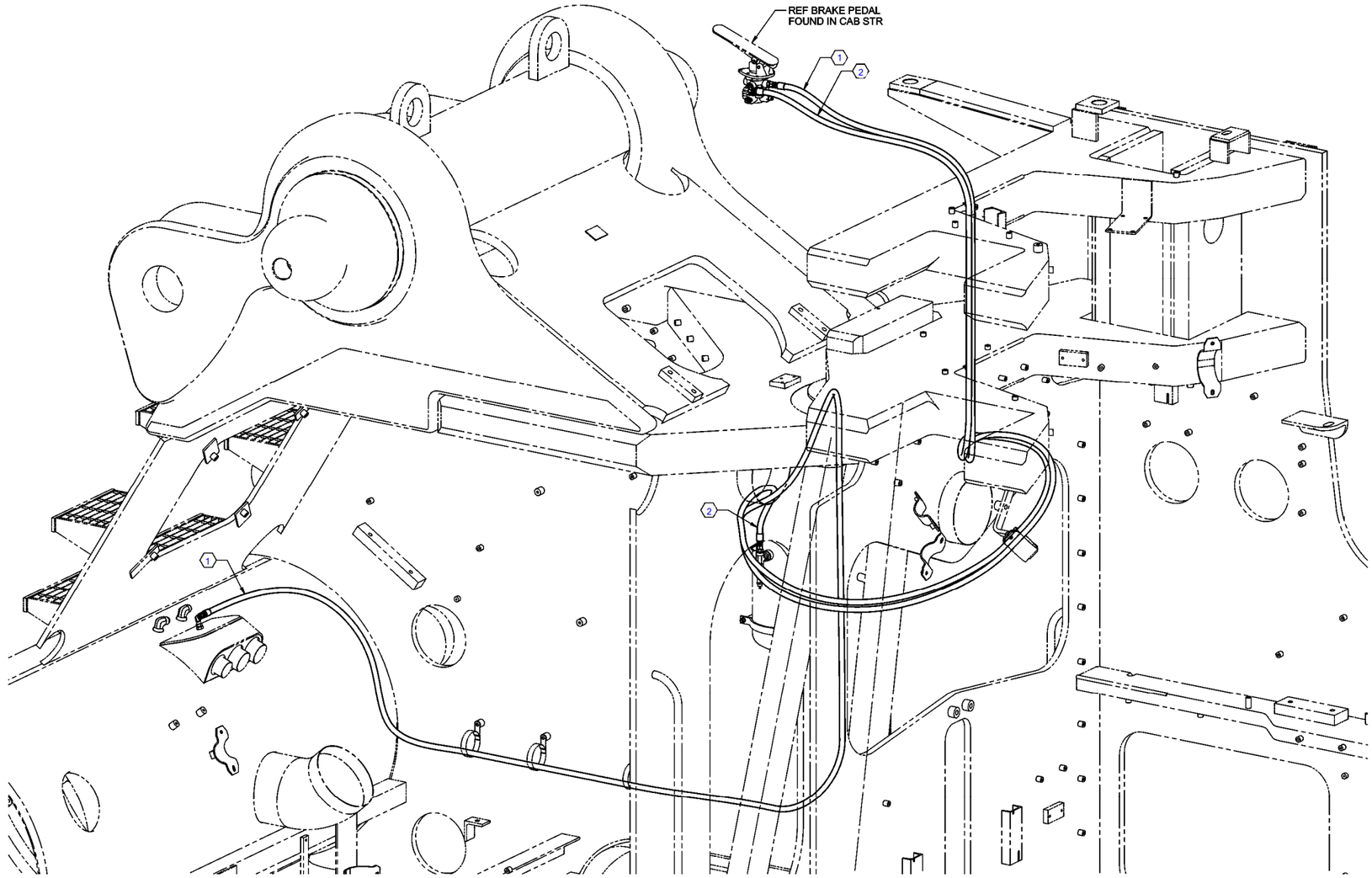
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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PIVOT LOOP AIR HOSE GROUP



ITEM	PART NO.	QTY	DESCRIPTION
2	4298049	1	HOSE 4000 6 197.0 0J 0J
1	4298048	1	HOSE 4000 6 388.0 0J 0J AR

REF 428-8497 GP HDW PIVOT LOOP AIR L1250 G3
FOR HARDWARE INSTALLATION

REF 428-8499 GP HSEM PIVOT LOOP AIR L1250 G3
FOR MDG-41 HOSE INSTALLATION

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-8528

		DATE
DWN	rhyatt	5-11-17
CHK	EER	5-11-17
ENGR	EER	5-11-17
PROD ENGR		
PROJ APPROVAL	JBD	5-11-17
MATL		

JOYGLOBAL

GP HOSE PIVOT LOOP AIR L1350 G3

SIZE D | DO NOT SCALE | DWG NO. 4288498 | REV 02

SCALE 1:8 | EST WT 7.9 lbm | SHEET 1 OF 1

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PIVOT LOOP AIR HOSE GROUP

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PIVOT LOOP AIR HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288498		PIVOT LOOP AIR HOSE GROUP		
1	R4298048	1	· HOSE ASSEMBLY, #6 X 388", AR		
2	R4298049	1	· HOSE ASSEMBLY, #6 X 197"		
		REF	DRAWING, PIVOT LOOP AIR HOSE GROUP (R428849802)		

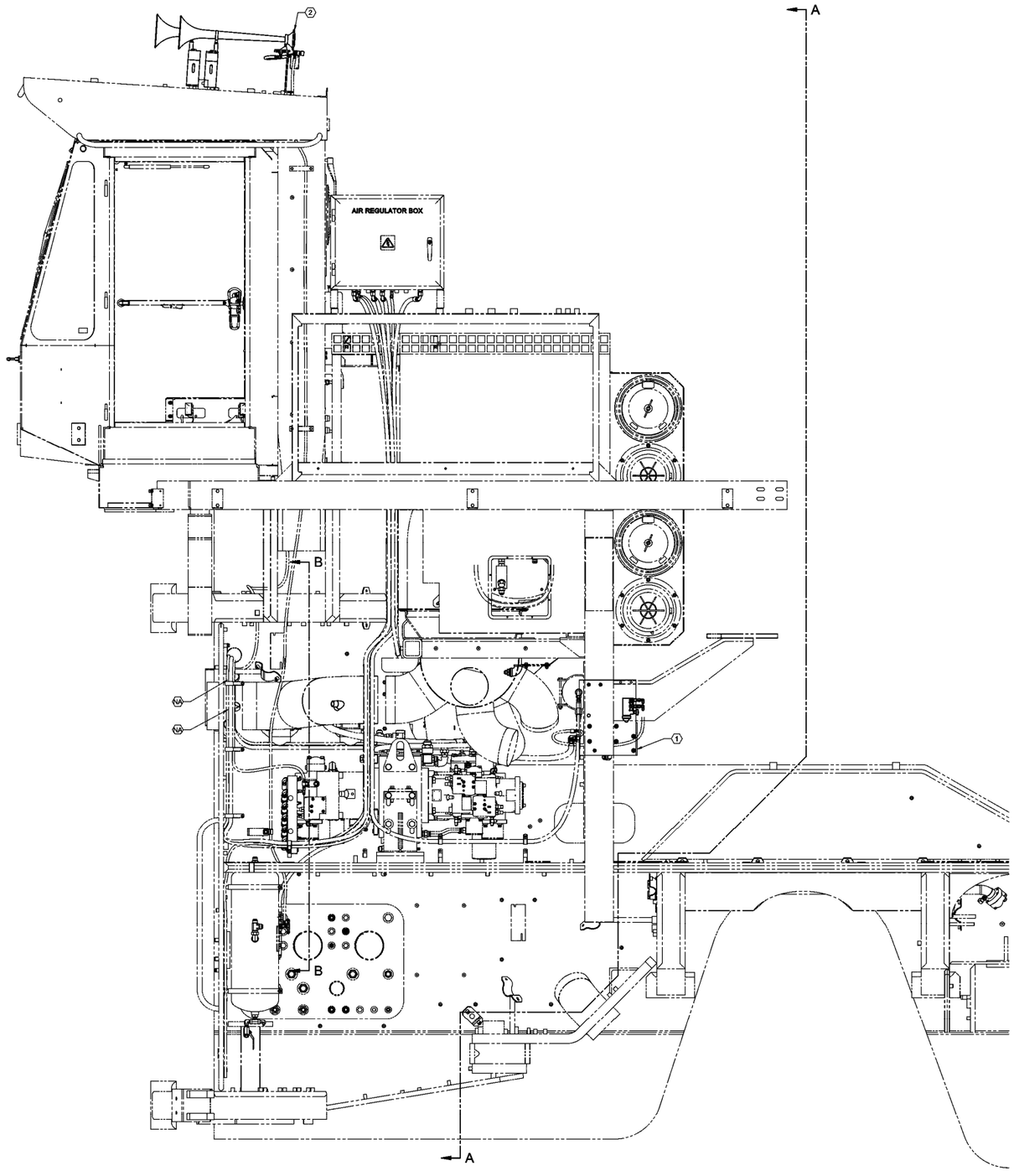
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AFTER GEARBOX AIR HARDWARE GROUP



ITEM	PART NO.	QTY	DESCRIPTION
14	0810970	2	BOLT HX .375 .750 NC G8 FT
13	0810971	3	BOLT HX .375 1.000 NC G8 FT
12	0753123	5	WASHER LOCK SPR .375 .68 .09
11	0808221	2	WASHER FLAT .375 .81 .08
10	4153804	2	CLAMP CABLE INSL .75 .531
9	0986143	2	CLAMP CABLE INSL 1.00 .406
8	0986145	1	CLAMP CABLE INSL 1.50 .406
6	4040558	1	FTG HYD 0 8 MJ 12 MP JUMP
5	4193350	1	PIPE RED 1.000 .750 BSH
4	0213417	1	PIPE ELB 1.000 90 150
3	4002443	1	FTG HYD 90 16 MJ 16 MP
2	4270891	1	KIT AIR HORN
1	4270964	1	ASSY AIR DRYER & GOVERNOR

REF 428-8492 GP HOSE AFTER GBOX AIR L1350 G3
FOR STD HOSE INSTALLATION

REF 428-8493 GP HSEM AFTER GBOX AIR L1350 G3
FOR MDG-41 HOSE INSTALLATION

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INTERPRET DIM & TOL PER ISO/DIN/BSU SPEC 16006.DIL

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-8528

DWN	rhyatt	5-26-17
CHK	EER	5-26-17
ENGR	EER	5-26-17
PROD ENGR		
PROJ APPROVAL	JBD	5-26-17
MATL		

JOYGLOBAL

GP HDW AFTER GBOX AIR L1350 G3

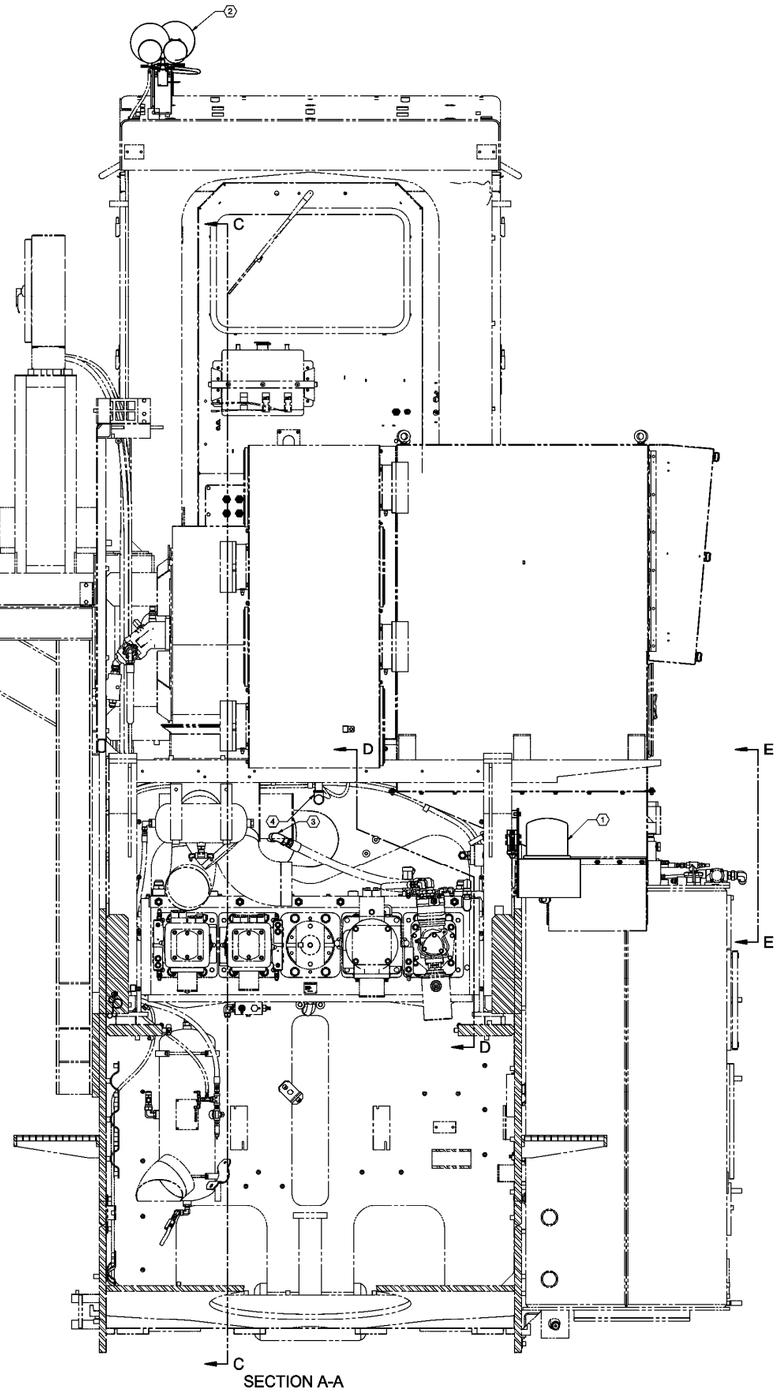
SIZE E | DO NOT SCALE | DWG NO. 4288491 | REV 01

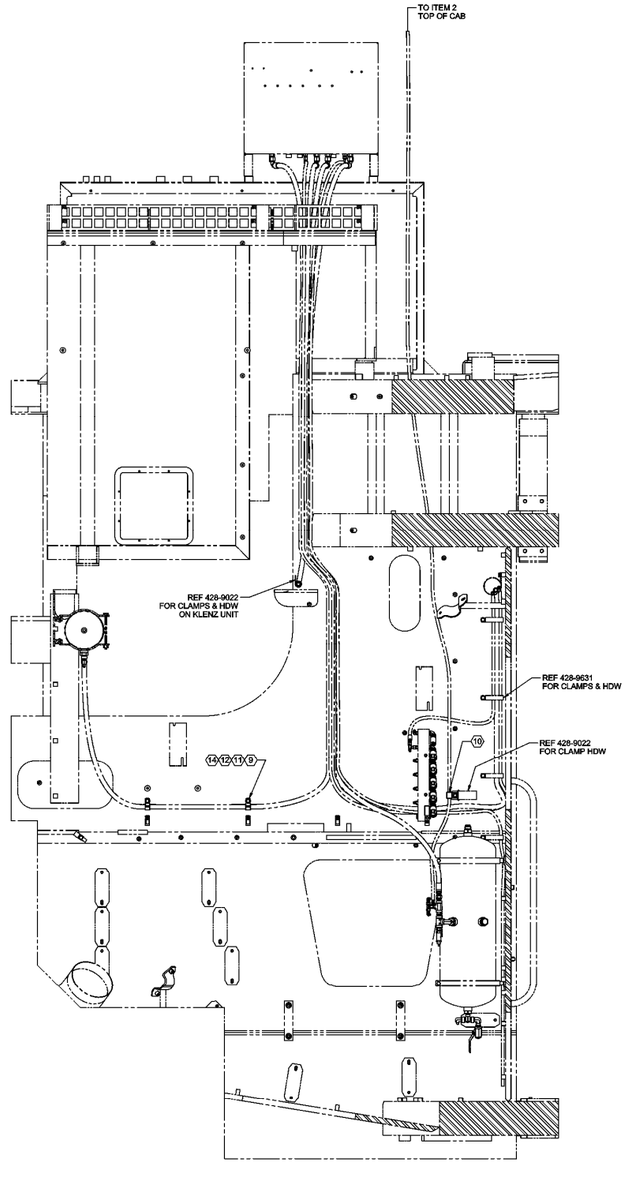
SCALE 1:8 | WT 26.1 lbs | SHEET 1 OF 3

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AFTER GEARBOX AIR HARDWARE GROUP





GP HDW AFTER GBOX AIR L1350 G3

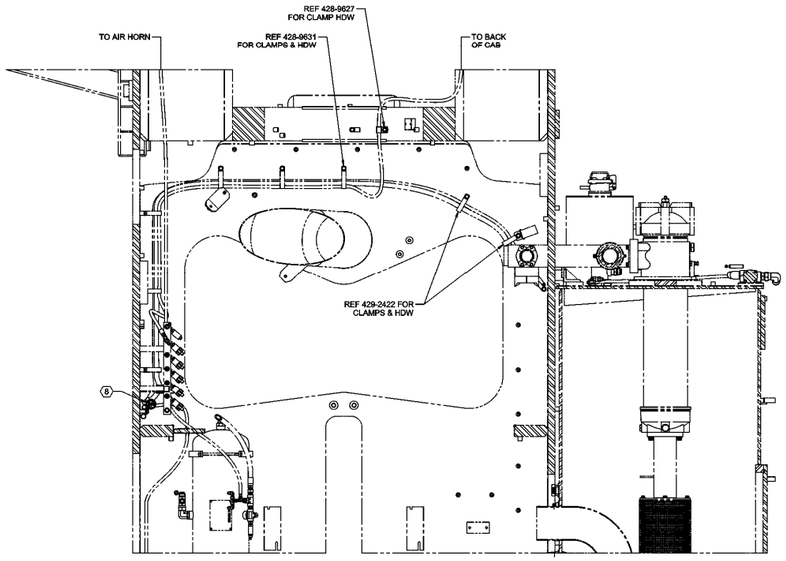
DO NOT SCALE | 4288491 | 01

SCALE 1:1 | WT 28.1 lbm | SHEET 2 OF 3

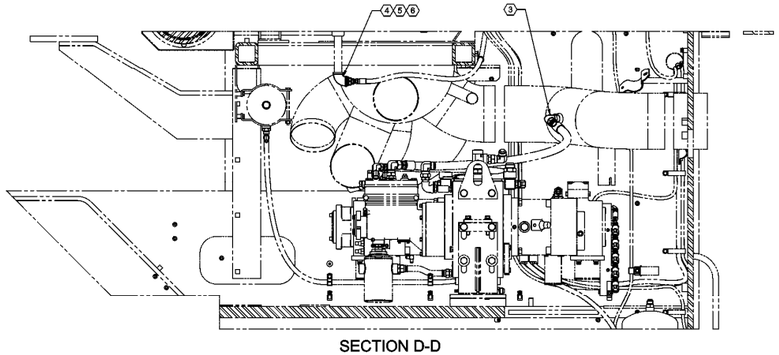
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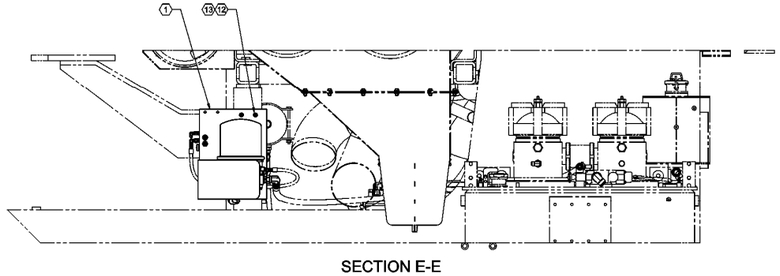
AFTER GEARBOX AIR HARDWARE GROUP



SECTION B-B



SECTION D-D



SECTION E-E

GP HDW AFTER GBOX AIR L1350 G3

E | DO NOT SCALE | 4288491 | 01

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AFTER GEARBOX AIR HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288491		AFTER GEARBOX AIR HARDWARE GROUP		
1	R4270964	1	· AIR DRYER & GOVERNOR ASSEMBLY (PAGE 8.123-8.123A)		
2	R4270891	1	· AIR HORN KIT (PAGE 8.52-8.52A)		
3	R4002443	1	· ELBOW, 1" MP X 90 deg. X #16 MJ		
4	R0213417	1	· ELBOW, 1" FP X 90 deg. X 1" FP		
5	R4193350	1	· BUSHING, 3/4" FP X 1" MP		
6	R4040558	1	· ADAPTER, 3/4" MP X #8 MJ		
7	N.P.N.		· NOT USED		
8	R0986145	1	· CLAMP, CABLE - INSULATED, 1-1/2"		
9	R0986143	2	· CLAMP, CABLE - INSULATED, 1"		
10	R4153804	2	· CLAMP, CABLE - INSULATED, 3/4"		
11	R0808221	2	· FLATWASHER, 3/8"		
12	R0753123	2	· LOCKWASHER, 3/8"		
13	R0810971	2	· BOLT, 3/8"-16 X 1"		
14	R0810970	2	· BOLT, 3/8"-16 X 3/4"		
			DRAWING, AFTER GEARBOX AIR HARDWARE GROUP (R428849101)		

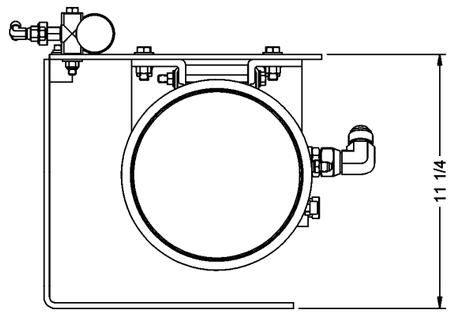
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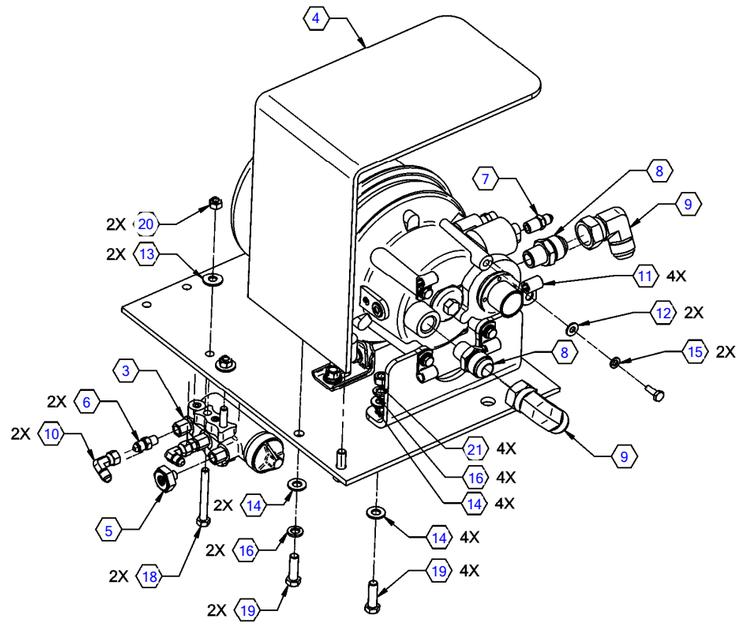
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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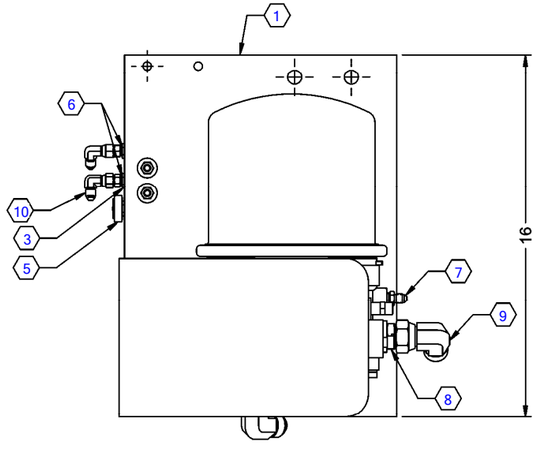
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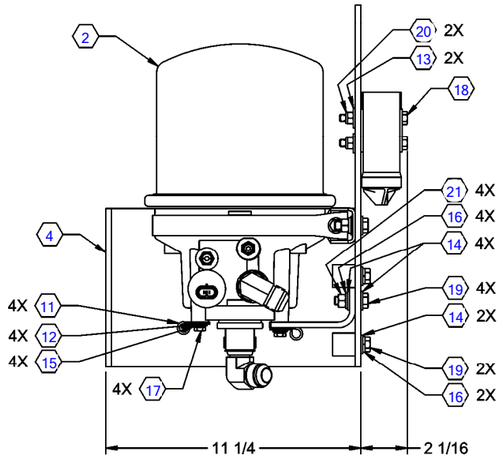
AIR DRYER & GOVERNOR ASSEMBLY





1:4





ITEM	PART NO.	QTY	DESCRIPTION
21	0812921	4	NUT HX 0.375-16UNC-2B G8 PL
20	4008438	2	NUT LOCK NYL INS 5/16
19	0808476	6	BOLT HX .375 1.250 NC G8
18	0744049	2	BOLT HX .313 2.750 NC G8
17	0810986	2	BOLT HX .250 .750 NC G8 FT
16	0753123	6	WASHER LOCK SPR .375 .68 .09
15	0213584	2	WASHER LOCK SPR .25 .49 .06
14	0808221	10	WASHER FLAT .375 .81 .08
13	0043735	2	WASHER FLAT 5/16
12	4010923	2	WASHER FLAT .250 .63 .065
11	4274558	4	CLAMP CABLE INSL .38 .406
10	4116444	2	FTG HYD 90 4 MJ 4 FJ
9	4002481	2	FTG HYD 90 12 MJ 12 FJ SWVL
8	4015753	2	FTG HYD 0 12 MJ 8 MP JUMP
7	4016785	1	FTG HYD 0 4 MJ 4 MP
6	0978632	2	FTG HYD 0 4 MJ 2 MP
5	4244790	1	VALVE CHECK EXHAUST ASY
4	4257635	1	STR, GUARD AIR DRYER 950
3	4267944	1	ASSY GOVERNOR
2	4264801	1	ASSY DRYER-AIR
1	4258480	1	MOUNT AIR DRYER

02

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- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°; FRACTIONS ±1/16; .XX DECIMAL ±.03; XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

USED ON: 4267493

		DATE
DWN	ayao	9-22-11
CHK	AYAO	9-22-11
ENGR		
PROD ENGR	AYAO	9-22-11
PROJ APPROVAL		
MATL	-	

LeTourneau Technologies™

ASSY AIR DRYER & GOVERNOR

SIZE C | DO NOT SCALE | DWG NO. 4270964 | REV 02

SCALE 1/4 | EST WT 61.7 lbm | SHEET 1 OF 1

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AIR DRYER & GOVERNOR ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4270964		AIR DRYER & GOVERNOR ASSEMBLY		11/14/18
1	R4258480	1	· MOUNT PLATE, AIR DRYER		
2	R4264801	1	· AIR DRYER ASSEMBLY		
	R4258482	1	· · DESICCANT CARTRIDGE		
	R4293906	1	· · DESICCANT CARTRIDGE BOLT KIT		11/14/18
	N.P.N.	1	· · · DESICCANT CARTRIDGE BOLT		11/14/18
	N.P.N.	2	· · · O-RING		11/14/18
	R4258492	1	· · HARNESS KIT, AIR DRYER		
	R4258491	1	· · COVER, EXHAUST		
	R4258490	1	· · VALVE, DELIVERY CHECK KIT		
	R4258484	1	· · HEATER AND THERMOSTAT KIT, 24V		
	R4258483	1	· · VALVE, PURGE KIT		
	R4261581	1	· · SPRING, PURGE VALVE		
	R4264800	1	· · MOUNT KIT		
	R4258485	1	· · DRYER, AIR		
3	R4267944	1	· GOVERNOR MODULE ASSEMBLY		
	R4267943	1	· · GOVERNOR		
	R4265902	3	· · ADAPTER, 1/8" FP X 10 MMO		
	R0716331	3	· · PLUG, PIPE - 1/8", HEX CSK.		
4	R4257635	1	· GUARD STRUCTURE, AIR DRYER		
5	R4244790	1	· VALVE ASSEMBLY, CHECK - EXHAUST		
6	R0978632	2	· ADAPTER, 1/8" MP X #4 MJ		
7	R4016785	1	· ADAPTER, 1/4" MP X #4 MJ		
8	R4015753	2	· ADAPTER, 1/2" MP X #12 MJ		
9	R4002481	2	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
10	R4116444	2	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
11	R4274558	4	· CLAMP, CAMP - INSULATED, 3/8"		5/1/18
12	R4010923	2	· FLATWASHER, 1/4"		
13	R0043735	2	· FLATWASHER, 5/16"		
14	R0808221	10	· FLATWASHER, 3/8"		
15	R0213584	2	· LOCKWASHER, 1/4"		
16	R0753123	6	· LOCKWASHER, 3/8"		
17	R0810986	2	· BOLT, 1/4"-20 X 3/4"		
18	R0744049	2	· BOLT, 5/16"-18 X 2-3/4"		5/1/18
19	R0808476	6	· BOLT, 3/8"-16 X 1-1/4"		
20	R4008438	2	· LOCKNUT, 5/16"-18 - NYLON		
21	R0812921	4	· NUT, 3/8"-16		
			DRAWING, AIR DRYER & GOVERNOR ASSEMBLY (R427096402)		5/1/18

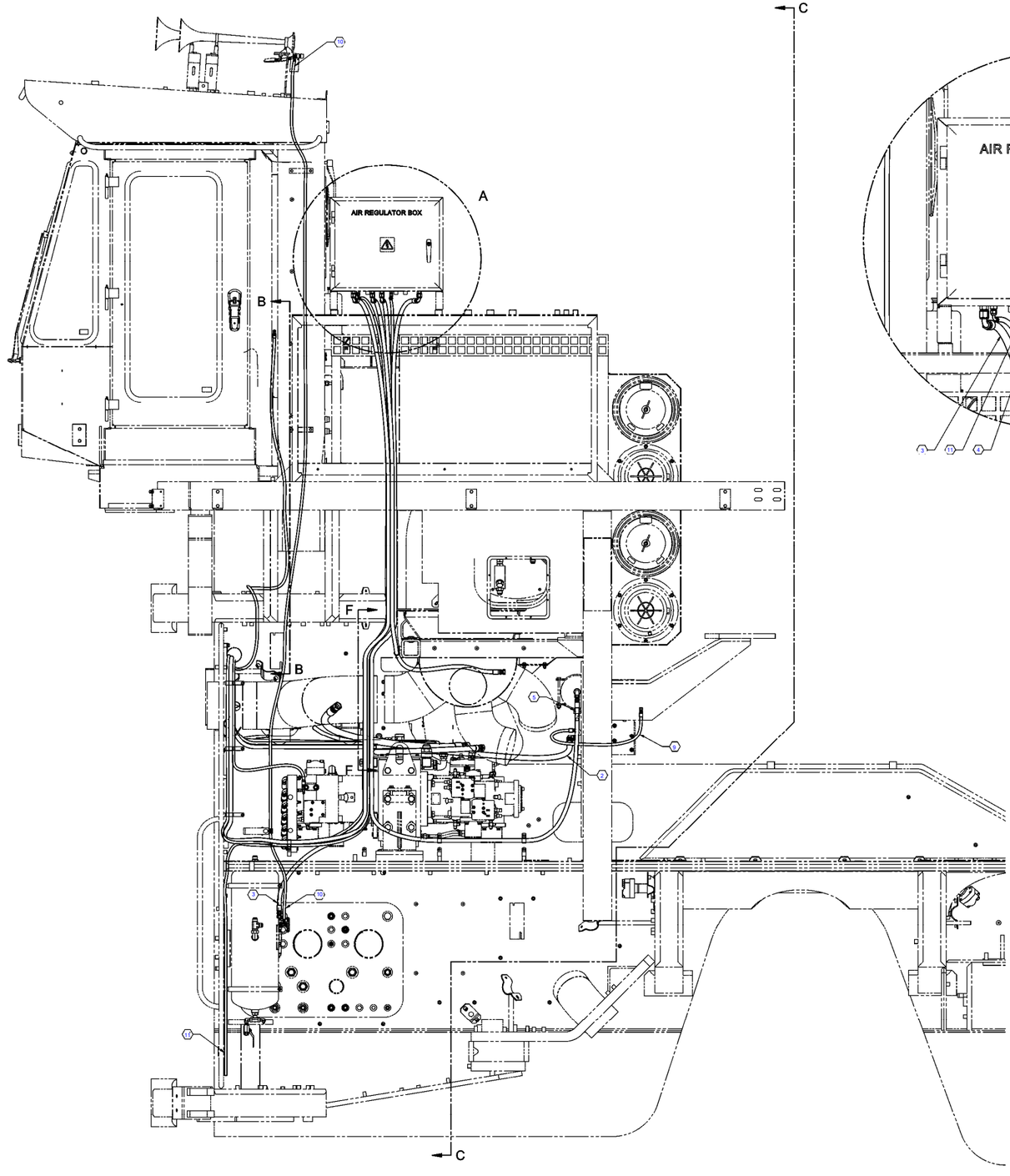
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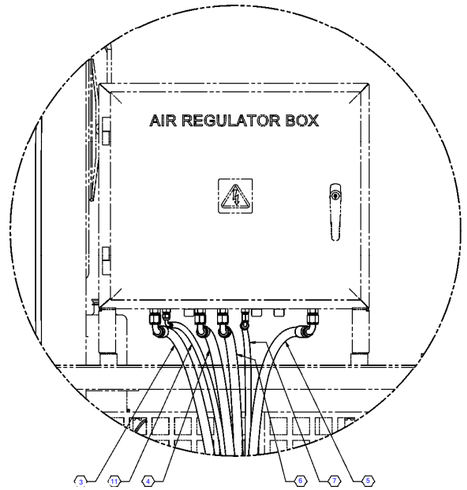
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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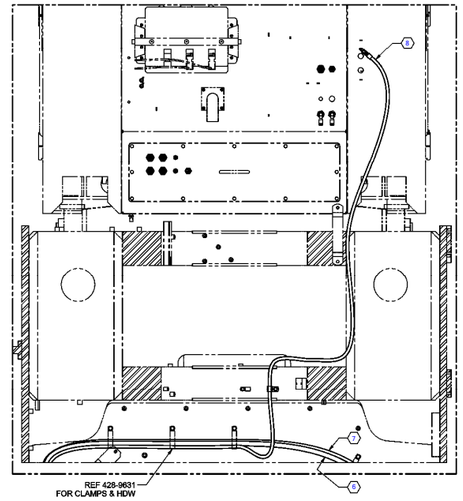
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AFTER GEARBOX AIR HOSE GROUP





DETAIL A



SECTION B-B
REAR OF CAB

ITEM	PART NO.	QTY	DESCRIPTION
11	4292231	1	HOSE 250 4 206.0 90J
10	4292230	1	HOSE 250 4 196.0 0J 90J
9	6989418	1	HOSE 2750 4 34.0 0J 0J
8	4292229	1	HOSE 2750 4 173.0 0J 0J
7	4296462	1	HOSE 4000 4 382.0 0J 90J AR
6	4296461	1	HOSE 4000 8 359.0 0J 90J AR
5	4296460	1	HOSE 4000 8 196.0 0J 90J AR
4	4113752	1	HOSE 2000 8 144.0 0J 90J
3	4155543	1	HOSE 2000 8 160.0 0J 90J
2	4292226	1	HOSE 800 12 84.0 0J 0J CSS
1	4296456	1	HOSE 1000 16 45.0 0J 0J AR

REF 428-9491 GP HDW AFTER GBOX AIR L1250 G3
FOR HARDWARE INSTALLATION

REF 428-8493 GP HSEM AFTER GBOX AIR L1250 G3
FOR MDG-41 HOSE INSTALLATION

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1000.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
• DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
• TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 XX DECIMAL ±.02 XXX DECIMAL ±.015
• MACHINED CORNERS 1/64 X 45°
• WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
• ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-8528

		DATE
DWN	rhyatt	5-30-17
CHK	EER	5-30-17
ENGR	EER	5-30-17
PROD ENGR		
PROJ APPROVAL	JBD	5-30-17
MATL		

JOYGLOBAL

GP HOSE AFTER GBOX
AIR L1350 G3

SIZE	DWG NO.	REV
E	4288492	01

DO NOT SCALE

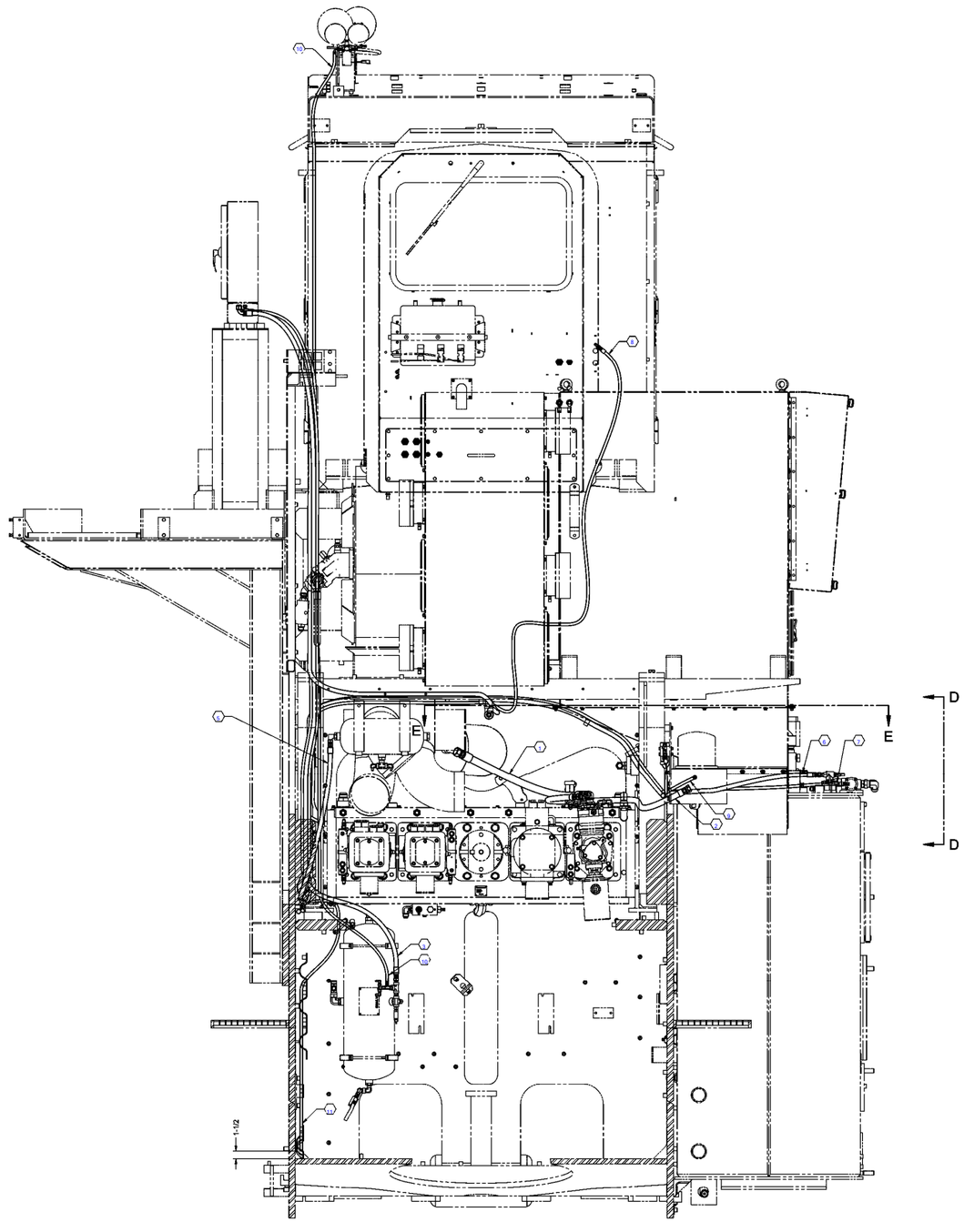
SCALE 1:8 | SHT WT 24.6 lbm | SHEET 1 OF 2

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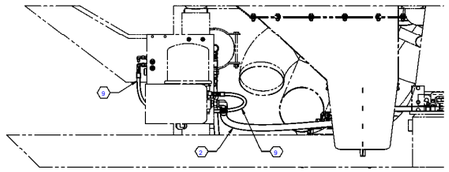
AFTER GEARBOX AIR HOSE GROUP

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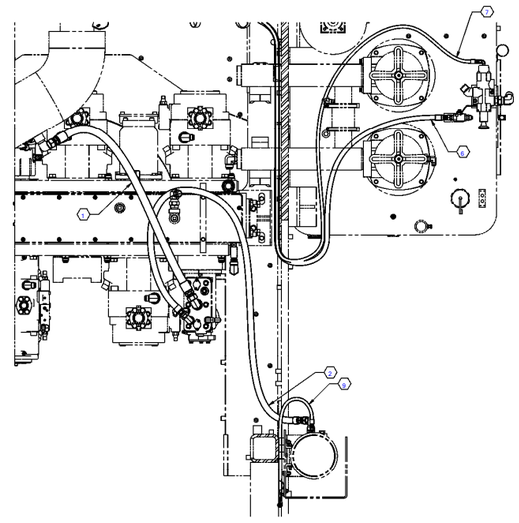
AFTER GEARBOX AIR HOSE GROUP



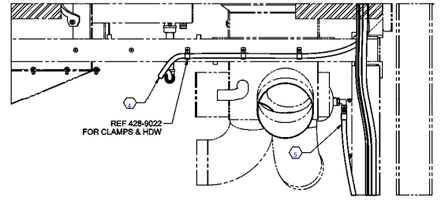
SECTION C-C



VIEW D-D



SECTION E-E



SECTION F-F

QP HOSE AFTER GBOX AIR L1350 G3	SIZE E	DO NOT SCALE	DWG NO. 4288492	REV 01
DRAWN PRyatt				
DATE 5-30-17	SCALE 1:1	WEIGHT 24.0 lbm	SHEET 2 OF 2	

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AFTER GEARBOX AIR HOSE GROUP

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AFTER GEARBOX AIR HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288492		AFTER GEARBOX AIR HOSE GROUP		
1	R4296456	1	· HOSE ASSEMBLY, #16 X 45", AR		
2	R4292226	1	· HOSE ASSEMBLY, #12 X 84", CSS		
3	R4155543	1	· HOSE ASSEMBLY, #8 X 160"		
4	R4113752	1	· HOSE ASSEMBLY, #8 X 144"		
5	R4296460	1	· HOSE ASSEMBLY, #8 X 196", AR		
6	R4296461	1	· HOSE ASSEMBLY, #8 X 359", AR		
7	R4296462	1	· HOSE ASSEMBLY, #4 X 382", AR		
8	R4292229	1	· HOSE ASSEMBLY, #4 X 173"		
9	R6989418	1	· HOSE ASSEMBLY, #4 X 34"		
10	R4292230	1	· HOSE ASSEMBLY, #4 X 196"		
11	R4292231	1	· HOSE ASSEMBLY, #4 X 206"		
			DRAWING, AFTER GEARBOX AIR HOSE GROUP (R428849201)		

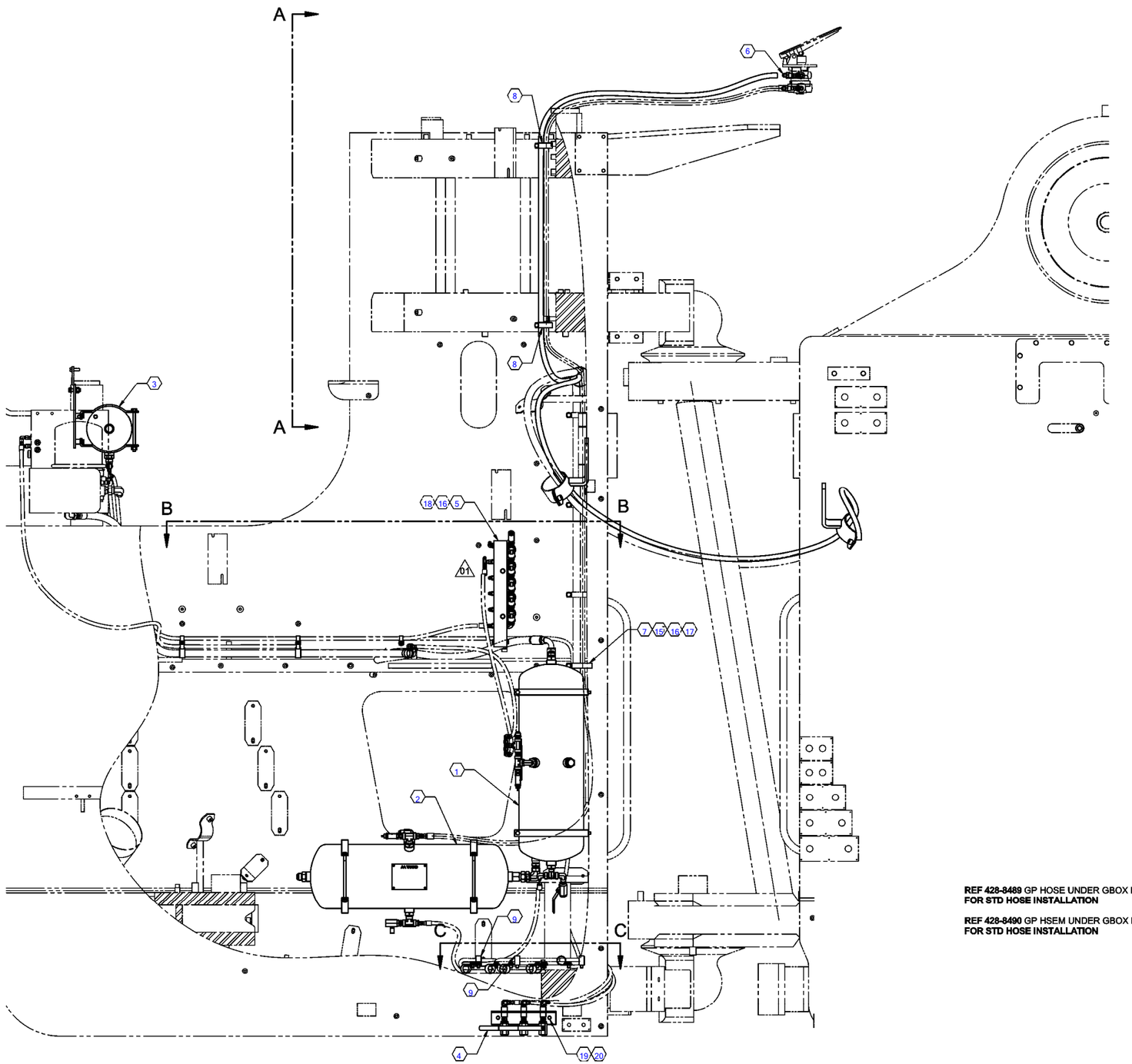
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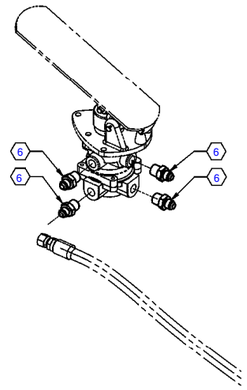
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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UNDER GEARBOX AIR HARDWARE GROUP





BRAKE PEDAL
PART OF CAB

REF 428-8489 GP HOSE UNDER GBOX L1250 G3
FOR STD HOSE INSTALLATION

REF 428-8490 GP HSEM UNDER GBOX L1250 G3
FOR STD HOSE INSTALLATION

ITEM	PART NO	QTY	DESCRIPTION
20	0810986	2	BOLT HX .250 .750 NC G8 FT
19	0213584	2	WASHER LOCK SPR .25 .49 .06
18	4009643	2	BOLT HX .375 2.500 NC G8
17	0810970	26	BOLT HX .375 .750 NC G8 FT
16	0753123	28	WASHER LOCK SPR .375 .68 .09
15	0808221	18	WASHER FLAT .375 .81 .08
14	0824367	2	NUT HX .438 NC G8
13	0021609	2	BOLT HX .438 1.500 NC G8
12	4010908	2	WASHER LOCK .438 .78 .109 SPR
11	4010924	4	WASHER FLAT .438 .92 .08
10	4086112	12	CLAMP CABLE INSL .63 .40
9	0986144	14	CLAMP CABLE INSL 1.25 .406
8	4014475	2	CLAMP CABLE INSL 2.00 .406
7	4065748	1	CLAMP CABLE INSL 3.00 .406
6	4011756	4	FTG HYD 0 6 MJ 6 MP
5	4275726	1	ASSY TRANSDUCER REAR FRAME
4	4277969	1	ASSY AIR RESERVIOR BLEED REAR
3	4280230	1	ASSY AIR RESERVOIR KLENZ
2	4280231	1	ASSY AIR RESERVOIR BRAKE
1	4280232	1	ASSY AIR DISTRIBUTION TANK

UNLESS OTHERWISE SPECIFIED
TOLERANCES

DECIMAL DIM	DECIMAL TOL	FRACTIONAL DIM	FRACTIONAL TOL
X	+/- .060	0"-24"	+/- 1/16
XX	+/- .030	24"-96"	+/- 1/8
XXX	+/- .015	OVER 96"	+/- 3/16
ANGLES	+/- 0°30'	ANGLES	+/- 1°

• ALL DIMENSIONS ARE IN INCHES
• MACHINED CORNERS 1/64 X 45°
• UNSPEC FNSH ON MACH SURF TO BE 125 Ra OR BETTER
• WELD PROPS SHALL MEET THE MIN REQ OF BASE MATL
THIRD ANGLE PROJECTION

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DWN BY ttyatt
CHK BY EER
APVD BY JED
MATL -

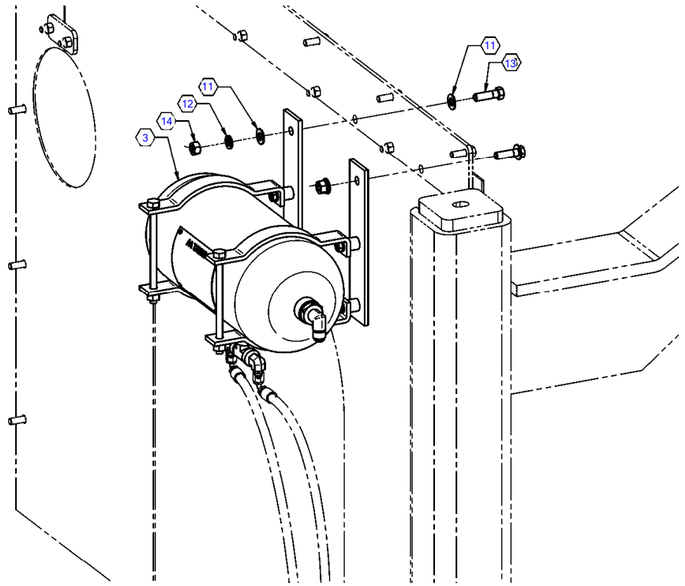
KOMATSU MINING CORP.

TITLE
GP HDW UNDER GBOX AIR L1250 G3

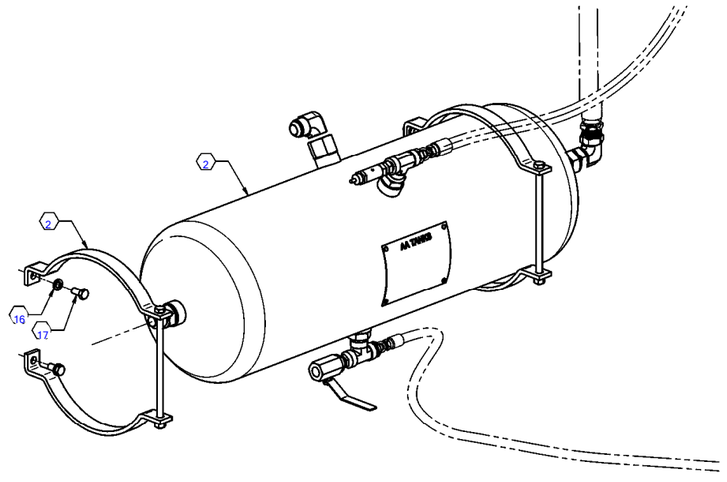
SIZE D | SIM TO NA | DWG NO 4288488 | REV 01
DO NOT SCALE | EST WT (LB) 131.2 | SHEET 1 OF 3

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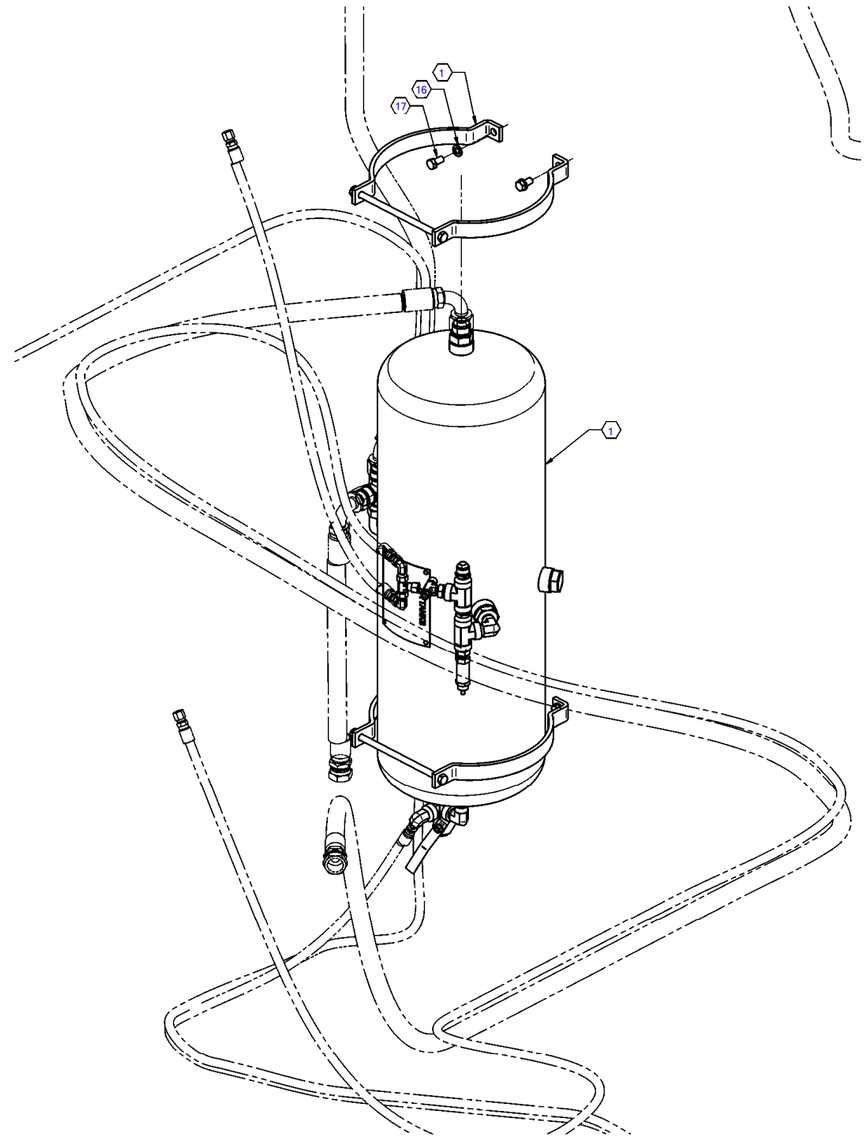
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KLENZ TANK
ON FIRE CURTAIN



BRAKE TANK



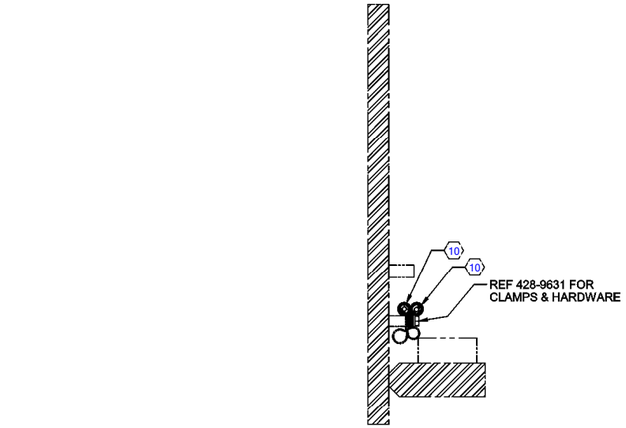
DISTRIBUTION TANK

SIZE	SIM TO	DWG NO	REV
D	NA	4288488	01
DO NOT SCALE	EST WT (LB) 131.2	SHEET	2 OF 3

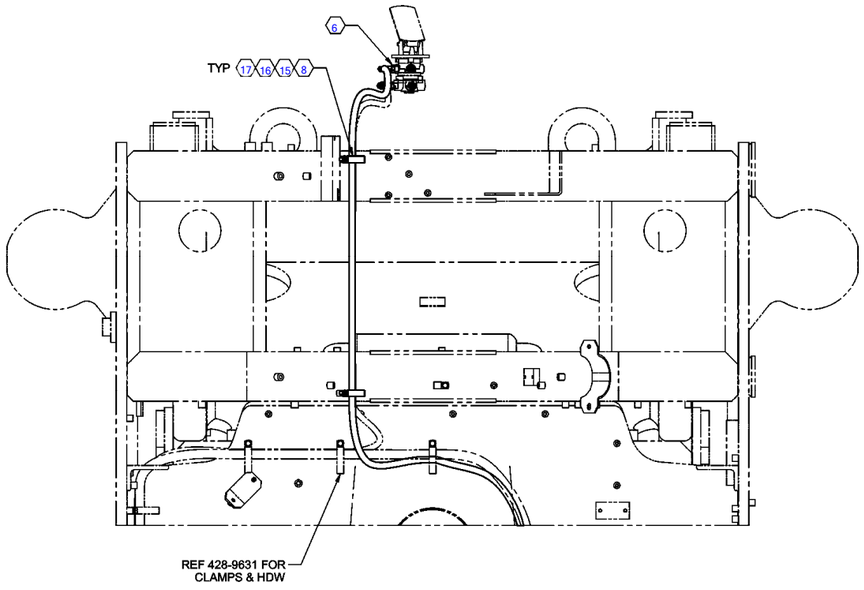
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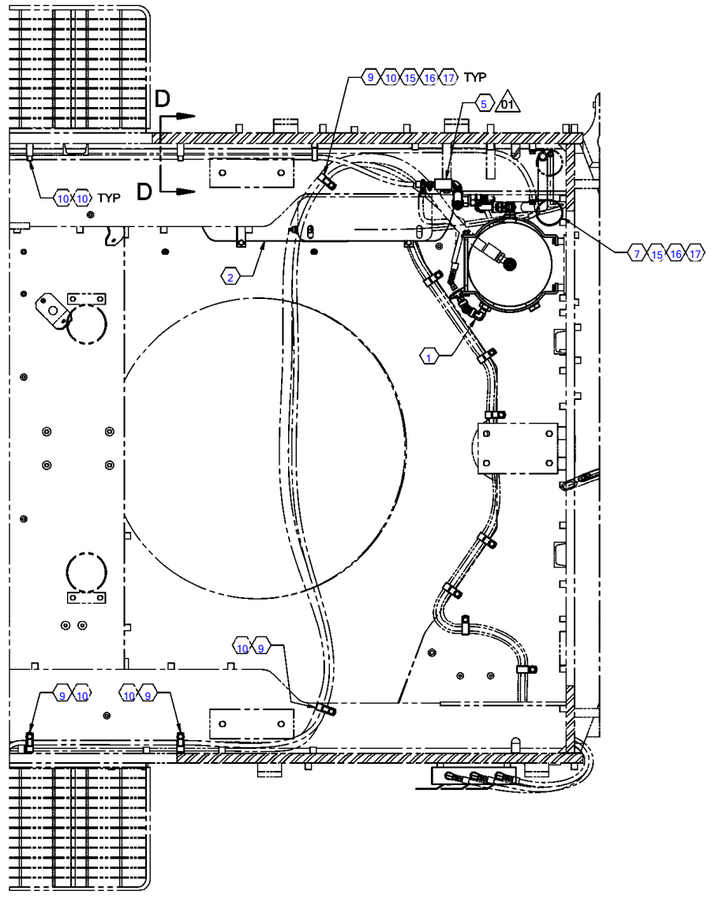
UNDER GEARBOX AIR HARDWARE GROUP



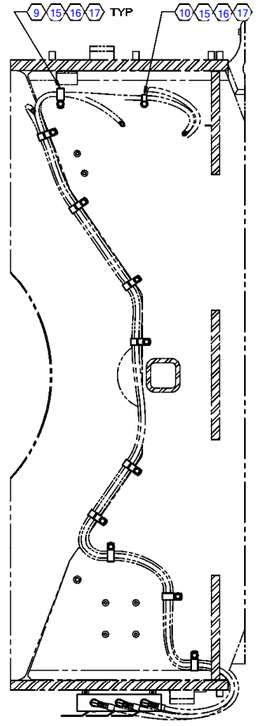
SECTION D-D



SECTION A-A



SECTION B-B



SECTION C-C

SIZE	SIM TO	DWG NO	REV
D	NA	4288488	01
DO NOT SCALE	EST WT (LB) 131.2	SHEET	3 OF 3

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288488		UNDER GEARBOX AIR HARDWARE GROUP		
1	R4280232	1	· AIR DISTRIBUTION TANK ASSEMBLY (PAGE 8.47-8.47C)		
2	R4280231	1	· AIR BRAKE TANK ASSEMBLY (PAGE 8.47-8.47D)		
3	R4280230	1	· AIR KLENZ TANK ASSEMBLY (PAGE 8.47-8.47E)		
4	R4277969	1	· REAR AIR RESERVOIR BLEED ASSEMBLY		
	R4189287	1	· · DRAIN MOUNT STRUCTURE		
	R4032312	3	· · NIPPLE, PIPE - 3/8", HEX		
	R4152842	3	· · VALVE, BALL - 3/8"		
	R6953864	3	· · ELBOW, 3/8" MP X 90 deg. X #4 MJ		
5	R4275726	1	· REAR FRAME TRANSDUCER ASSEMBLY (PAGE 8.55-8.55A)		
6	R4011756	4	· ADAPTER, 3/8" MP X #6 MJ		
7	R4065748	1	· CLAMP, CABLE - 3"		
8	R4014475	2	· CLAMP, CABLE - INSULATED, 2		
9	R0986144	14	· CLAMP, CABLE - INSULATED, 1-1/4"		
10	R4086112	12	· CLAMP, CABLE - INSULATED, 5/8"		
11	R4010924	4	· FLATWASHER, 7/16"		
12	R4010908	2	· LOCKWASHER, 7/16"		
13	R0021609	2	· BOLT, 7/16"-14 X 1-1/2"		
14	R0824367	2	· NUT, 7/16"-14		
15	R0808221	18	· FLATWASHER, 3/8"		
16	R0753123	28	· LOCKWASHER, 3/8"		
17	R0810970	26	· BOLT, 3/8"-16 X 3/4"		
18	R4009643	2	· BOLT, 3/8"-16 X 2-1/2"		
19	R0213584	2	· LOCKWASHER, 1/4"		
20	R0810986	2	· BOLT, 1/4"-20 X 3/4"		
			DRAWING, UNDER GEARBOX AIR HARDWARE GROUP (R428848801)		

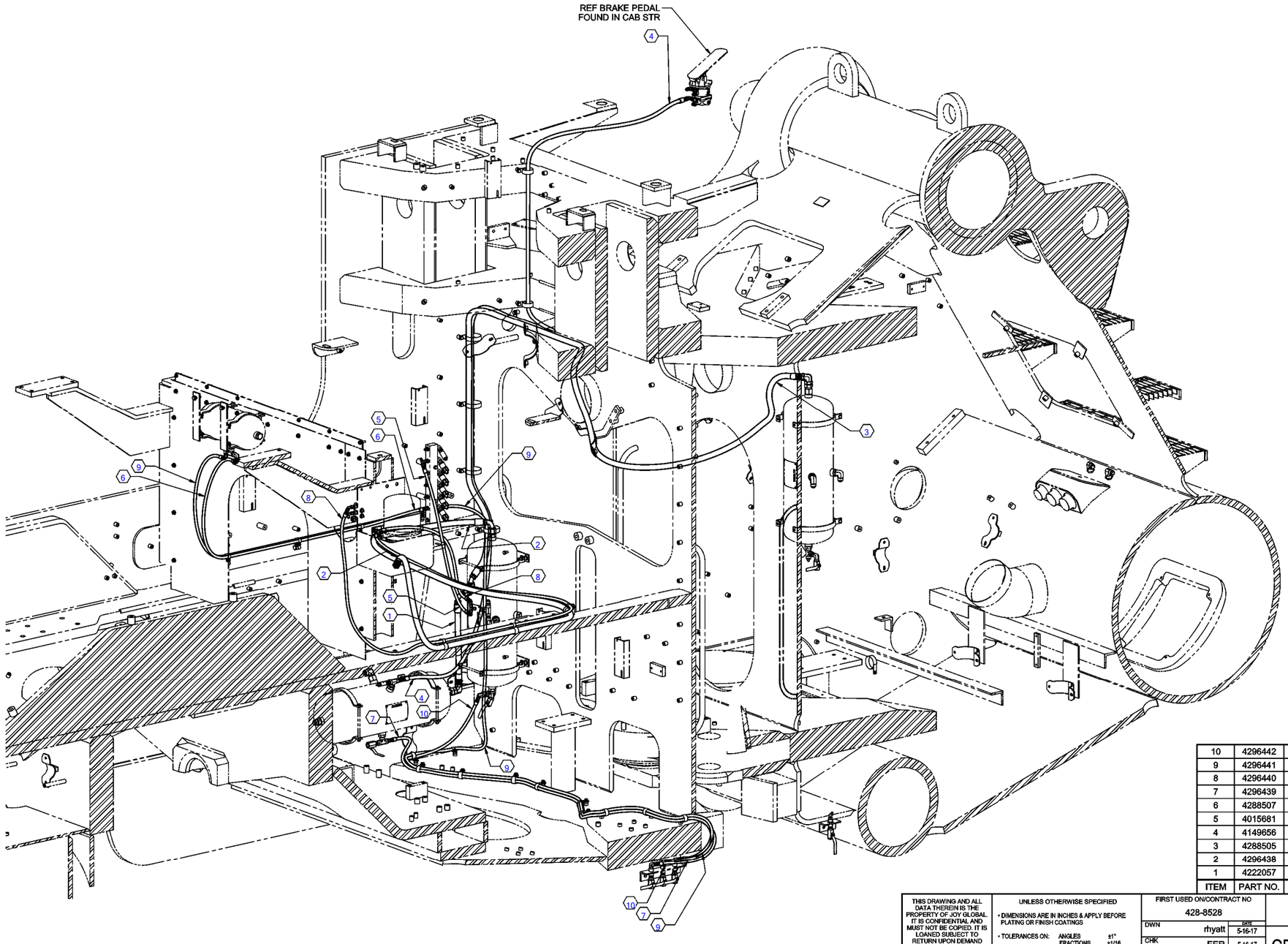
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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UNDER GEARBOX AIR HOSE GROUP



ITEM	PART NO.	QTY	DESCRIPTION
10	4296442	1	HOSE 4000 4 133.0 0J 0J AR
9	4296441	1	HOSE 4000 4 274.0 0J 90J AR
8	4296440	1	HOSE 4000 4 192.0 0J 0J AR
7	4296439	1	HOSE 4000 4 118.0 0J 0J AR
6	4288507	1	HOSE 2750 4 88.0 0J 90J
5	4015681	1	HOSE 2750 4 36.0 0J 0J
4	4149656	1	HOSE 2250 6 208.0 0J 0J
3	4288505	1	HOSE 1250 12 198.0 0J 45J
2	4296438	1	HOSE 1250 12 170.0 0J 90J AR
1	4222057	1	HOSE 1250 12 20.0 0J 90J

REF 428-8488 GP HDW UNDER GBOX AIR L1250 G3
FOR HARDWARE INSTALLATION

REF 428-8490 GP HSEM UNDER GBOX AIR L1250 G3
FOR MDG-41 HOSE INSTALLATION

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO: 428-8528

		DATE
DWN	rhyatt	5-16-17
CHK	EER	5-16-17
ENGR	EER	5-16-17
PROD ENGR		
PROJ APPROVAL	JBD	5-16-17
MATL		

JOYGLOBAL

GP HOSE UNDER GBOX AIR L1350 G3

SIZE D | DO NOT SCALE | DWG NO. 4288489 | REV 03

SCALE 1:8 | DST WT 19.1 lbm | SHEET 1 OF 1

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UNDER GEARBOX AIR HOSE GROUP

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UNDER GEARBOX AIR HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288489	1	UNDER GEARBOX AIR HOSE GROUP		
1	R4222057	1	· HOSE ASSEMBLY, #12 X 20"		
2	R4296438	1	· HOSE ASSEMBLY, #12 X 170", AR		
3	R4288505	1	· HOSE ASSEMBLY, #12 X 198"		
4	R4149656	1	· HOSE ASSEMBLY, #6 X 208"		
5	R4015681	1	· HOSE ASSEMBLY, #4 X 36"		
6	R4288507	1	· HOSE ASSEMBLY, #4 X 88"		
7	R4296439	1	· HOSE ASSEMBLY, #4 X 118", AR		
8	R4296440	1	· HOSE ASSEMBLY, #4 X 192", AR		
9	R4296441	1	· HOSE ASSEMBLY, #4 X 274", AR		
10	R4296442	1	· HOSE ASSEMBLY, #4 X 133", AR		
		REF	DRAWING, UNDER GEARBOX AIR HOSE GROUP (R428848903)		

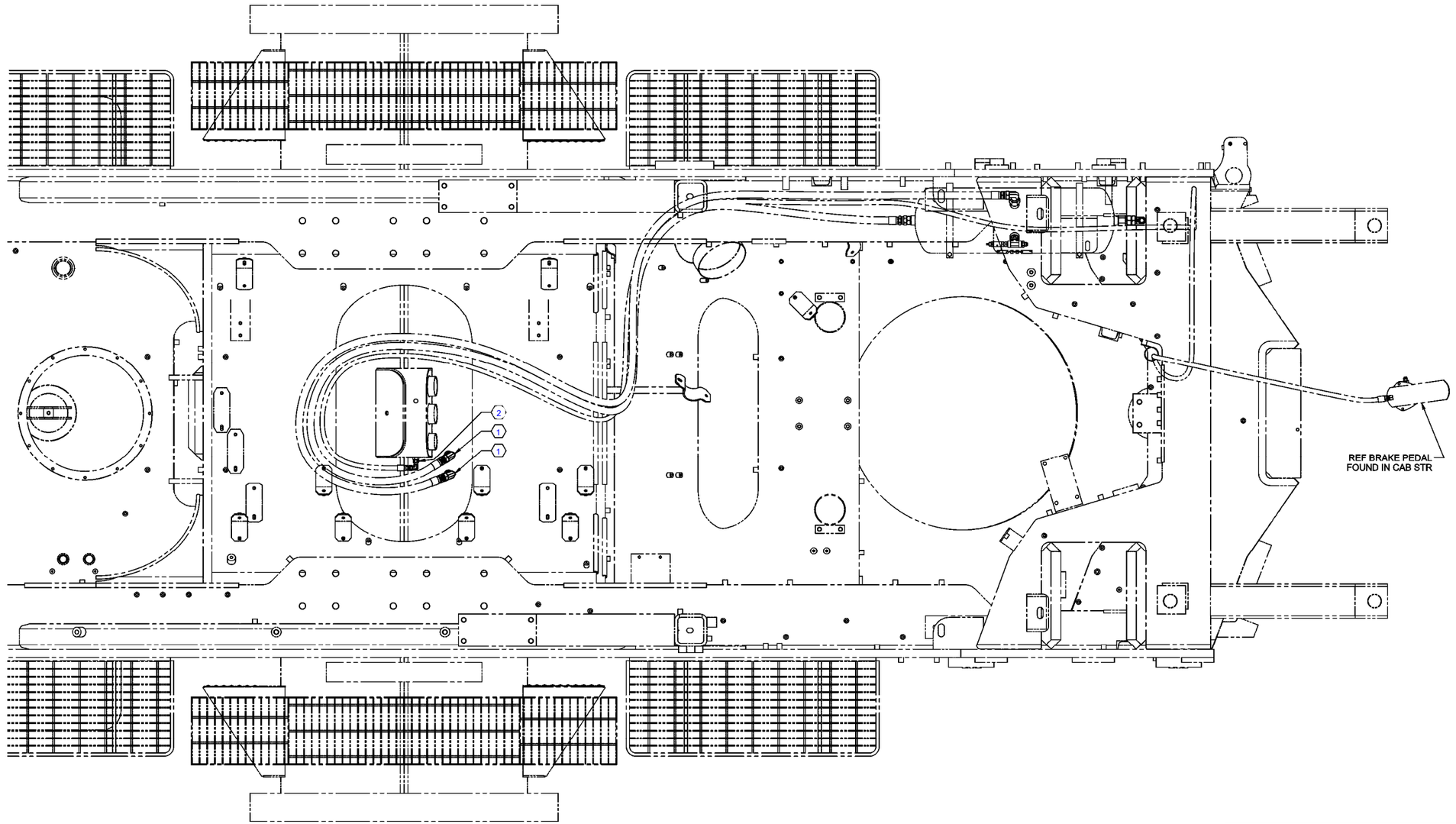
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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REAR FRAME AIR SUPPLY HARDWARE GROUP



ITEM	PART NO.	QTY	DESCRIPTION
2	4002478	1	FTG HYD 90 6 MJ 6 FJ SWVL
1	4002441	2	FTG HYD 90 12 MJ 12 MP

REF 428-8495 GP HOSE AIR SUPPLY RF L1250 G3
FOR STD HOSE INSTALLATION

REF 428-8496 GP HSEM AIR SUPPLY RF L1250 G3
FOR MDG-41 HOSE INSTALLATION

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO		
428-8528		
DWN	rhyatt	5-12-17
CHK	EER	5-12-17
ENGR	EER	5-12-17
PROD ENGR		
PROJ APPROVAL	JBD	5-12-17
MATL		

JOYGLOBAL

GP HDW AIR SUPPLY RF L1250 G3

SIZE D | DO NOT SCALE | DWG NO. 4288494 | REV 00

SCALE 1:20 | EST WT 1.2 lbm | SHEET 1 OF 1

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REAR FRAME AIR SUPPLY HARDWARE GROUP

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REAR FRAME AIR SUPPLY HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288494		REAR FRAME AIR SUPPLY HARDWARE GROUP		
1	R4002441	2	· ELBOW, 3/4" MP X 90 deg. X #12 MJ		
2	R4002478	1	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
		REF	DRAWING, REAR FRAME AIR SUPPLY HARDWARE GROUP (R428849400)		

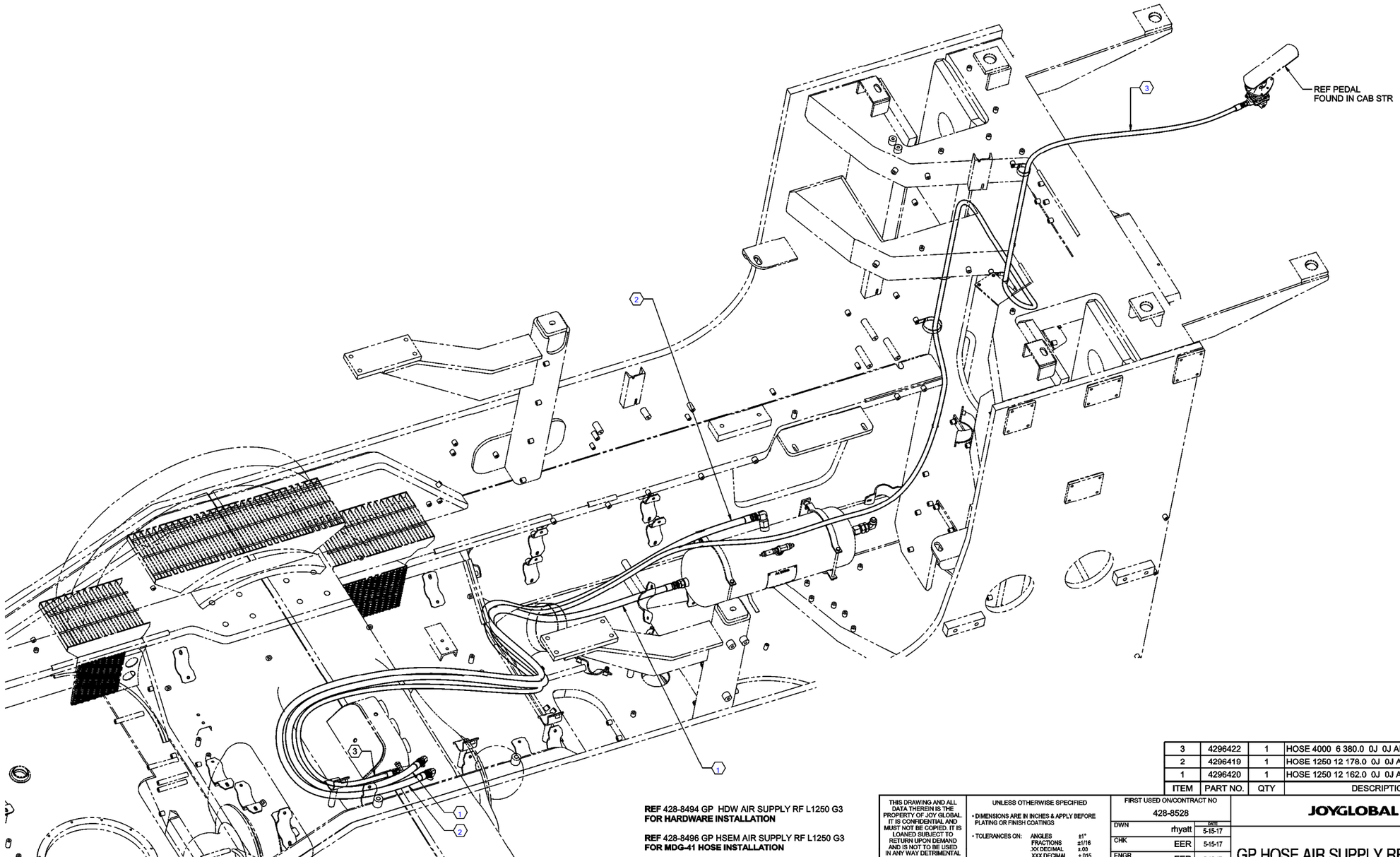
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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REAR FRAME AIR SUPPLY HOSE GROUP



REF 428-8494 GP HDW AIR SUPPLY RF L1250 G3
FOR HARDWARE INSTALLATION

REF 428-8496 GP HSEM AIR SUPPLY RF L1250 G3
FOR MDG-41 HOSE INSTALLATION

ITEM	PART NO.	QTY	DESCRIPTION
3	4296422	1	HOSE 4000 6 380.0 0J 0J AR
2	4296419	1	HOSE 1250 12 178.0 0J 0J AR
1	4296420	1	HOSE 1250 12 162.0 0J 0J AR

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO
428-8528

		DATE
DWN	rhyatt	5-15-17
CHK	EER	5-15-17
ENGR	EER	5-15-17
PROD ENGR		
PROJ APPROVAL	JBD	5-15-17
MATL		

JOYGLOBAL

GP HOSE AIR SUPPLY RF L1350 G3

SIZE D | DO NOT SCALE | DWG NO. 4288495 | REV 01

SCALE 1:20 | EST WT 11.6 lbm | SHEET 1 OF 1

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REAR FRAME AIR SUPPLY HOSE GROUP

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REAR FRAME AIR SUPPLY HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4288495		REAR FRAME AIR SUPPLY HOSE GROUP		
1	R4296420	1	· HOSE ASSEMBLY, #12 X 162", AR		
2	R4296419	1	· HOSE ASSEMBLY, #12 X 178", AR		
3	R4296422	1	· HOSE ASSEMBLY, #6 X 380", AR		
		REF	DRAWING, REAR FRAME AIR SUPPLY HOSE GROUP (R428849501)		

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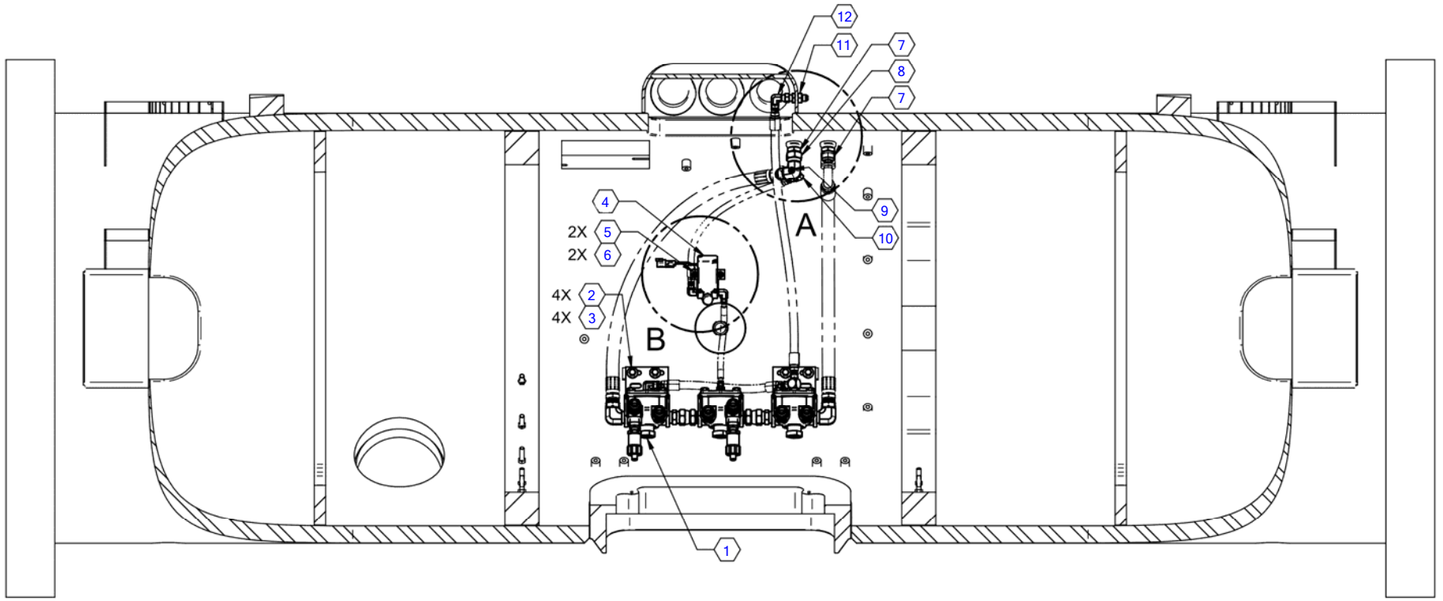
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

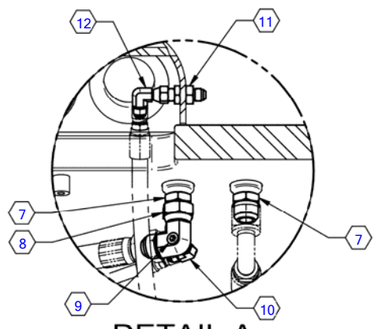
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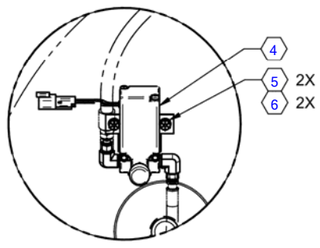
REAR BRAKE HARDWARE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	NL13-1602	3-12	TEW	JBD	JBD
	01	ADDED MDG HOSE REFERENCE	1321955	1-29-16	TEW	JBD	JBD





DETAIL A
1:4



DETAIL B
1:4

REF 428-0240 GP PRE HOSE BRAKE REAR L1350 G2
FOR HOSE INSTALLATION

REF 428-7400 GP HSEM PRE BRAKE REAR L1350 G2
FOR MDG HOSE INSTALLATION

ITEM	PART NO.	QTY	DESCRIPTION
14	4081386	3	FTG HYD 90 12 MJ 10 MO
13	4021412	3	FTG HYD 0 10 MO 12 MJ
12	4002478	1	FTG HYD 90 6 MJ 6 FJ SWVL
11	4051616	1	FTG HYD 0 6 MJ 6 MJ BH
10	4011748	1	FTG HYD 90 4 MJ 4 MP JUMP
9	0272969	1	PIPE PLUG .250 CS HX
8	4244689	1	FTG HYD 90 12 MJ 12 FJ MOD
7	4002422	2	FTG HYD 0 12 MJ 12 MP
6	0417597	2	BOLT HEX .250 .500 NC G8 FT
5	0213584	2	WASHER LOCK SPR .25 .49 .06
4	4277971	1	ASSY AIR SOLENOID REAR
3	4009625	4	BOLT HX .313 .625 NC G8 FT
2	4223101	4	WASHER .313 HARD CONICAL
1	4273473	1	ASSY RELAY VALVE L18/2350 RXL

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- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° | FRACTIONS ±1/16 | .XX DECIMAL ±.03 | .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

USED ON

		DATE
DWN	twillis	3-12-13
CHK	JBD	3-12-13
ENGR		
PROD ENGR	JBD	3-12-13
PROJ APPROVAL		
MATL		

LeTourneau

GP HDW BRAKE REAR L1350 G2

SIZE	DWG NO.	REV
C	4280239	01

SCALE 1/8 | EST WT 38.1 lbm | SHEET 1 OF 2

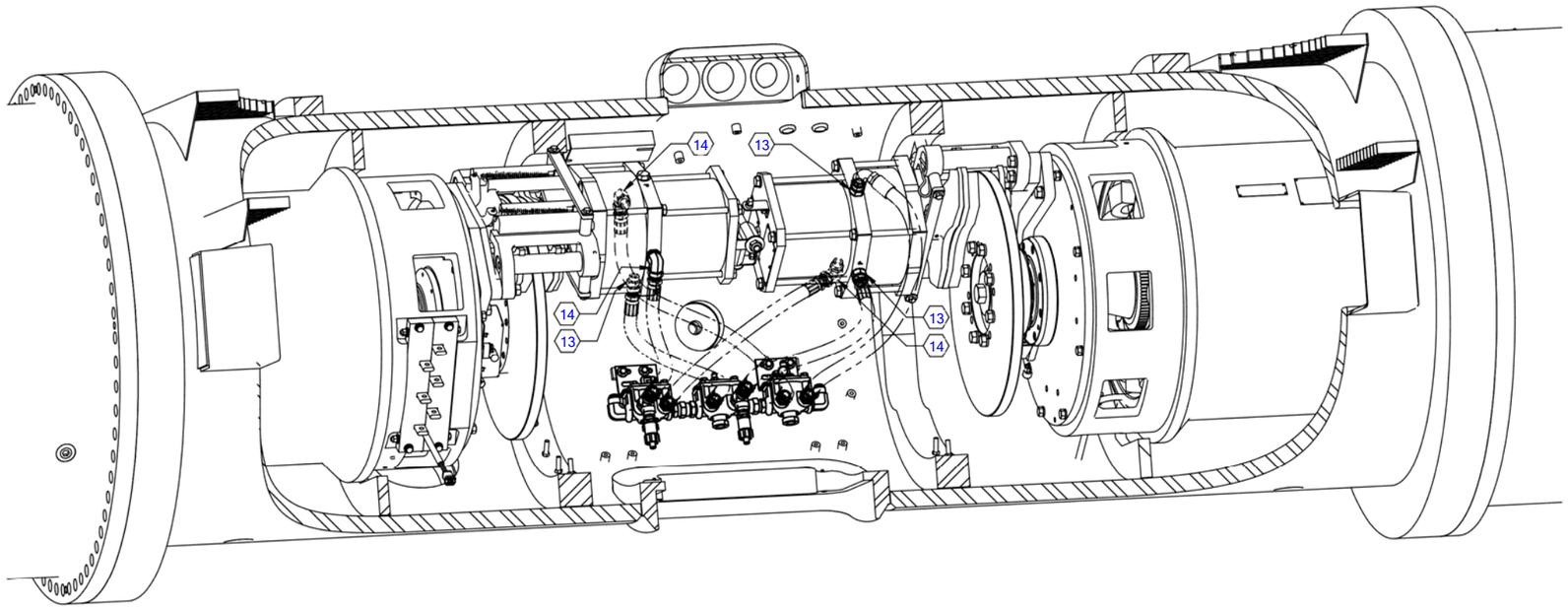
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REAR BRAKE HARDWARE GROUP

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REAR BRAKE HARDWARE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	NL13-1602	3-12	TEW	JBD	JBD
	01	SEE SHEET 1	1321955	1-29-16	TEW	JBD	JBD



GP HDW BRAKE REAR L1350 G2				
DRAWN twillis	SIZE C	DO NOT SCALE	DWG NO. 4280239	REV 01
ISSUED	SCALE 1/8	EST WT 38.1 lbm	SHEET 2 OF 2	

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REAR BRAKE HARDWARE GROUP

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REAR BRAKE HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280239		REAR BRAKE HARDWARE GROUP		
1	R4273473	1	· FRONT RELAY VALVE ASSEMBLY (PAGE 8.54-8.54A)		
2	R4223101	4	· FLATWASHER, 5/16" I.D. X 1" O.D. X 1/16" - CONICAL		
3	R4009625	4	· BOLT, 5/16"-18 X 5/8"		
4	R4277971	1	· REAR AIR SOLENOID ASSEMBLY		
	R4261177	1	· · SOLENOID KIT, AIR - 24V		
	R4039803	1	· · · SOLENOID, AIR - 24V		
	R4255415	1	· · · RECEPTACLE, DT04-2P		
	R4255416	1	· · · WEDGE, W2P		
	R4185763	2	· · · PIN, CONTACT - 16		
	R4162499	1	· · VENT, BREATHER - 1/4"-18		
	R4011748	2	· · ELBOW, 1/4" MP X 90 deg. X #4 MJ		
5	R0213584	2	· LOCKWASHER, 1/4"		
6	R0417597	2	· BOLT, 1/4"-20 X 1/2"		
7	R4002422	2	· ADAPTER, 3/4" MP X #12 MJ		
8	R4244689	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ		
9	R0272969	1	· PLUG, PIPE - 1/4", HEX CSK.		
10	R4011748	1	· ELBOW, 1/4" MP X 90 deg. X #4 MJ		
11	R4051616	1	· ADAPTER, #6 MJ X #6 MJ - BULKHEAD		
12	R4002478	1	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
13	R4021412	3	· ADAPTER, #10 MO X #12 MJ		
14	R4081386	3	· ELBOW, #10 MO X 90 deg. X #12 MJ		
			DRAWING, REAR BRAKE HARDWARE GROUP (R428023901)		

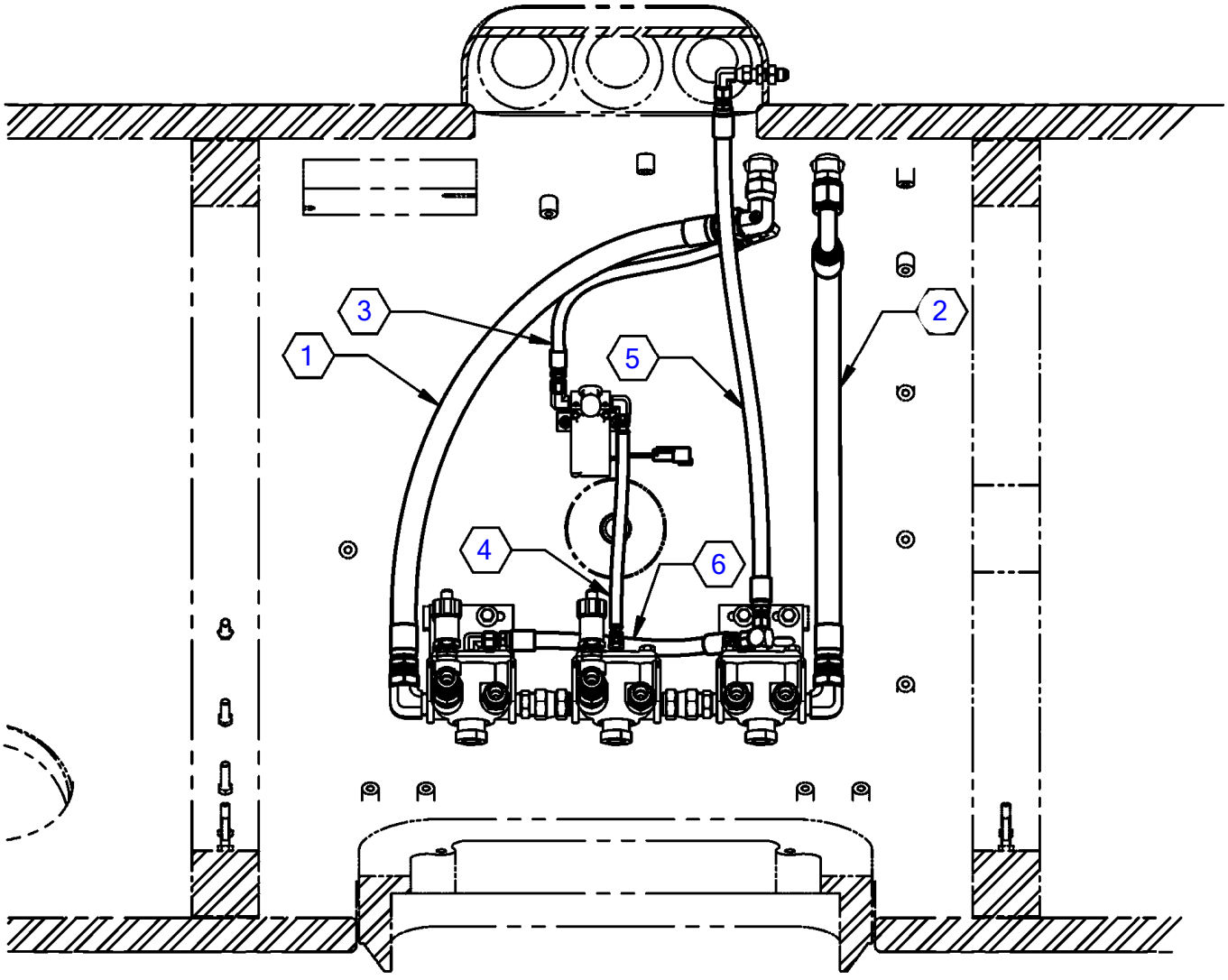
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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REAR PRE BRAKE HOSE GROUP



428024001

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REAR PRE BRAKE HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280240		REAR PRE BRAKE HOSE GROUP		
1	R4079178	1	· HOSE ASSEMBLY, #12 X 32"		
2	R4172292	1	· HOSE ASSEMBLY, #12 X 28"		
3	R4017544	1	· HOSE ASSEMBLY, #4 X 17"		
4	R4155482	1	· HOSE ASSEMBLY, #4 X 10"		
5	R4153281	1	· HOSE ASSEMBLY, #6 X 32"		
6	R4069124	1	· HOSE ASSEMBLY, #6 X 14"		
		REF	DRAWING, REAR PRE BRAKE HOSE GROUP (R428024001)		

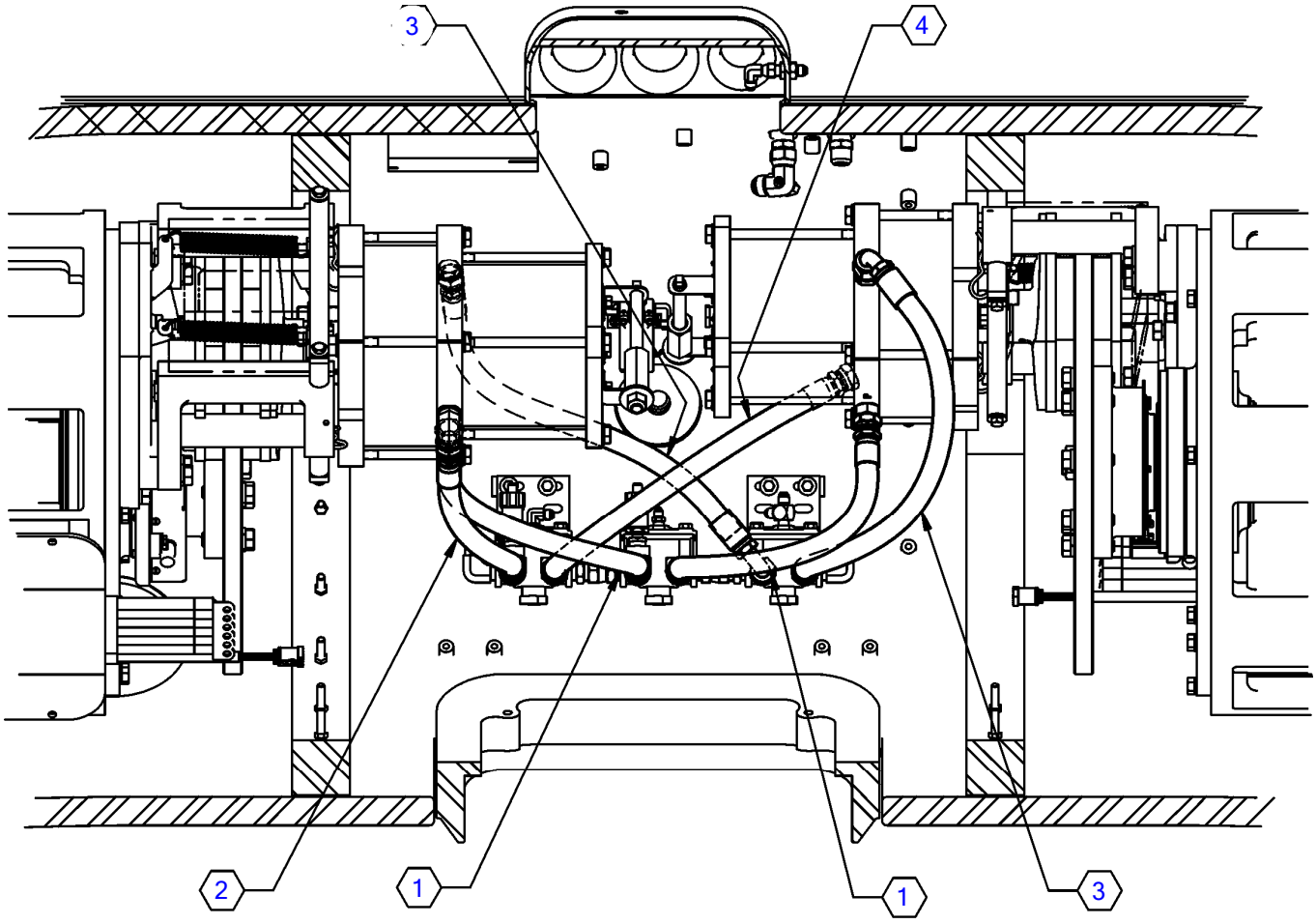
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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REAR POST BRAKE HOSE GROUP



428025902

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REAR POST BRAKE HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4280259		REAR POST BRAKE HOSE GROUP		
1	R4177380	2	· HOSE ASSEMBLY, #12 X 26"		
2	R4032510	1	· HOSE ASSEMBLY, #12 X 21"		
3	R4222038	2	· HOSE ASSEMBLY, #12 X 30"		
4	R4116607	1	· HOSE ASSEMBLY, #12 X 19"		
		REF	DRAWING, REAR POST BRAKE HOSE GROUP (R428025902)		

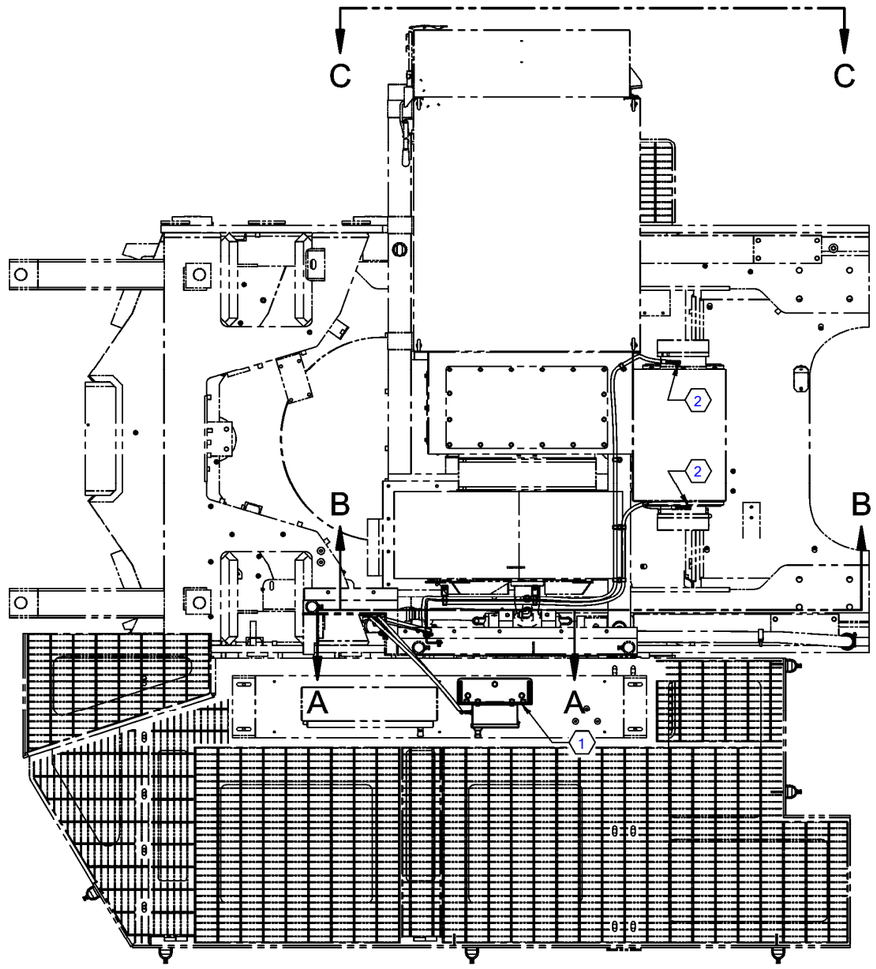
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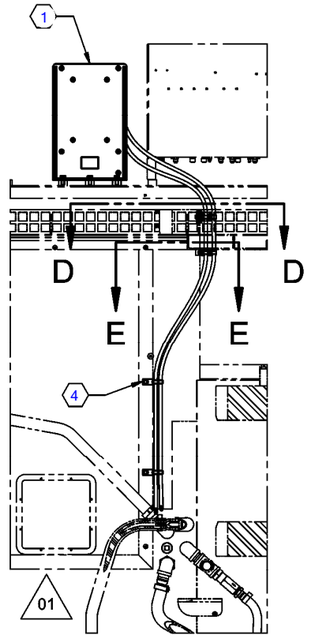
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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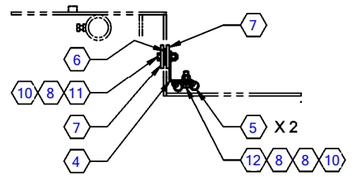
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AIR RESTRICTION HARDWARE GROUP

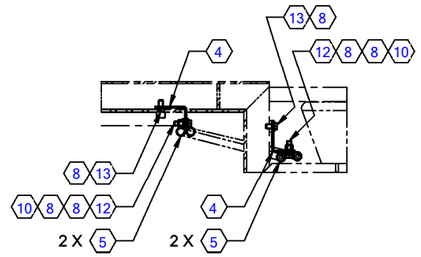




SECTION A-A



SECTION D-D
SCALE 1:8



SECTION E-E
SCALE 1:8

ITEM	PART NO.	QTY	DESCRIPTION
13	0810970	7	BOLT HX .375 .750 NC G8 FT
12	0808476	6	BOLT HX .375 1.250 NC G8
11	4009640	1	BOLT HX .375 1.500 NC G8
10	0985113	7	NUT LOCK NYL INS .375 NC
8	0808221	20	WASHER FLAT .375 .81 .08
7	4133340	2	WASHER FLAT .375 2.00 .25 SP
6	0021549	1	WASHER FLAT .500 1.38 .13
5	4086112	19	CLAMP CABLE INSL .63 .40
4	4288321	6	PLT CLAMP STANDOFF
3	0978632	2	FTG HYD 0 4 MJ 2 MP
2	4032320	2	FTG HYD 90 2 FP 2 FP
1	4288346	1	GP INST AIR RESTRICTION BOX 2T

REF 429-2310 GP HOSE AIR RESTRICTION GA T2
FOR STANDARD HOSE INSTALLATION

REF 429-2311 GP HSEM AIR RESTRICTION GA T2
FOR MDG-41 HOSE INSTALLATION

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

USED ON

		DATE
DWN	rhyatt	8-03-17
CHK	EER	8-03-17
ENGR	EER	8-03-17
PROD ENGR		
PROJ APPROVAL	JBD	8-03-17
MATL		

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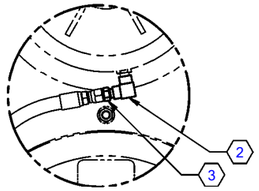
GP HDW AIR RESTRICTION GA 2T

SIZE		DWG NO.		REV
C	DO NOT SCALE	4292309		01
SCALE 1:16	EST WT 45.6 lbm		SHEET 1 OF 2	

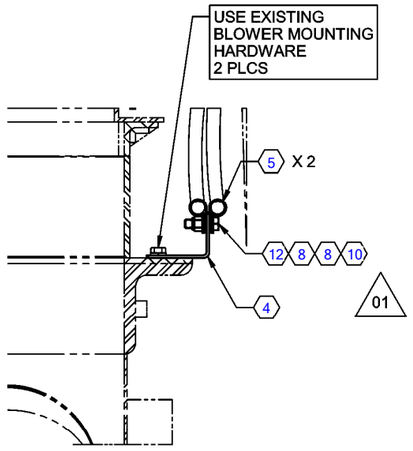
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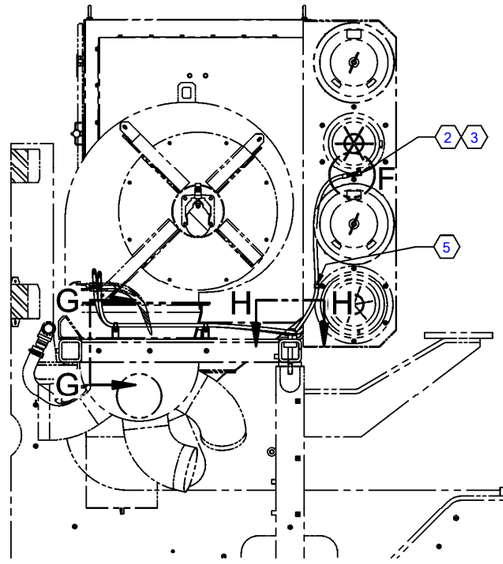
AIR RESTRICTION HARDWARE GROUP



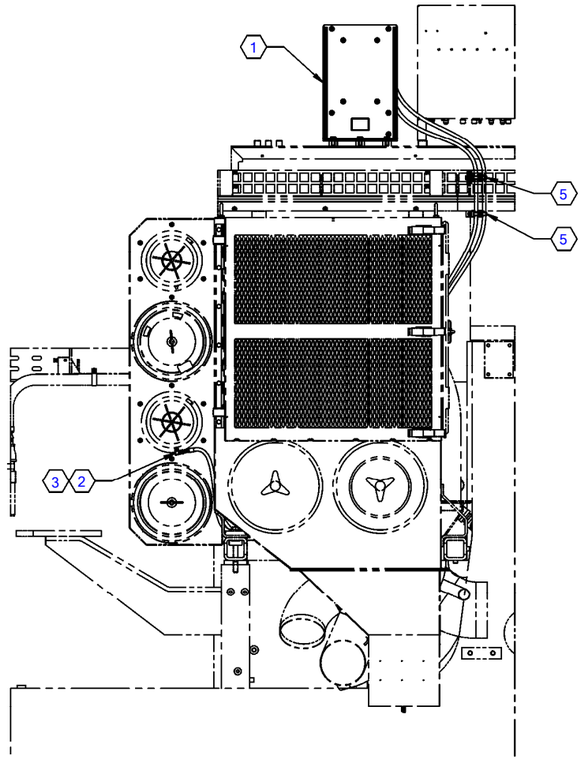
DETAIL F
TYP 2 PLCS
SCALE 1:4



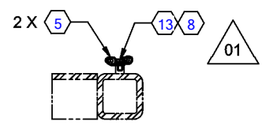
SECTION G-G
SCALE 1:4



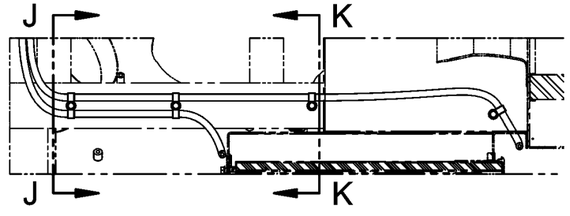
SECTION B-B



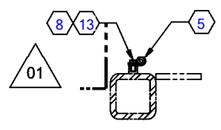
SECTION C-C



SECTION J-J
SCALE 1:8



SECTION H-H
SCALE 1:8



SECTION K-K
SCALE 1:8

GP HDW AIR RESTRICTION GA 2T				
DRAWN rhyatt	SIZE C	DO NOT SCALE	DWG NO. 4292309	REV 01
ISSUED 8-03-17	SCALE 1:16	EST WT 45.6 lbm	SHEET 2 OF 2	

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4292309		AIR RESTRICTION HARDWARE GROUP		
1	R4288346	1	· ENGINE AIR RESTRICTION GAUGE BOX GROUP		
	R4287620	1	· · MOUNT STRUCTURE		
	R4267273	1	· · ENGINE AIR RESTRICTION GAUGE BOX ASSEMBLY (PAGE 5.87-5.87A)		
2	R4032320	2	· ELBOW, 1/8" FP X 90 deg. X 1/8" FP		
3	R0978632	2	· ADAPTER, 1/8" MP X #4 MJ		
4	R4288321	6	· CLAMP PLATE, STANDOFF		
5	R4086112	19	· CLAMP, CABLE - INSULATED, 5/8"		
6	R0021549	1	· FLATWASHER, 1/2"		
7	R4133340	2	· FLATWASHER, 3/8" X 2" X 1/4"		
8	R0808221	20	· FLATWASHER, 3/8"		
9	N.P.N.		· NOT USED		
10	R0985113	7	· LOCKNUT, 3/8"-16 - NYLON		
11	R4009640	1	· BOLT, 3/8"-16 X 1-1/2"		
12	R0808476	6	· BOLT, 3/8"-16 X 1-1/4"		
13	R0810970	7	· BOLT, 3/8"-16 X 3/4"		
			DRAWING, AIR RESTRICTION HARDWARE GROUP (R429230901)		

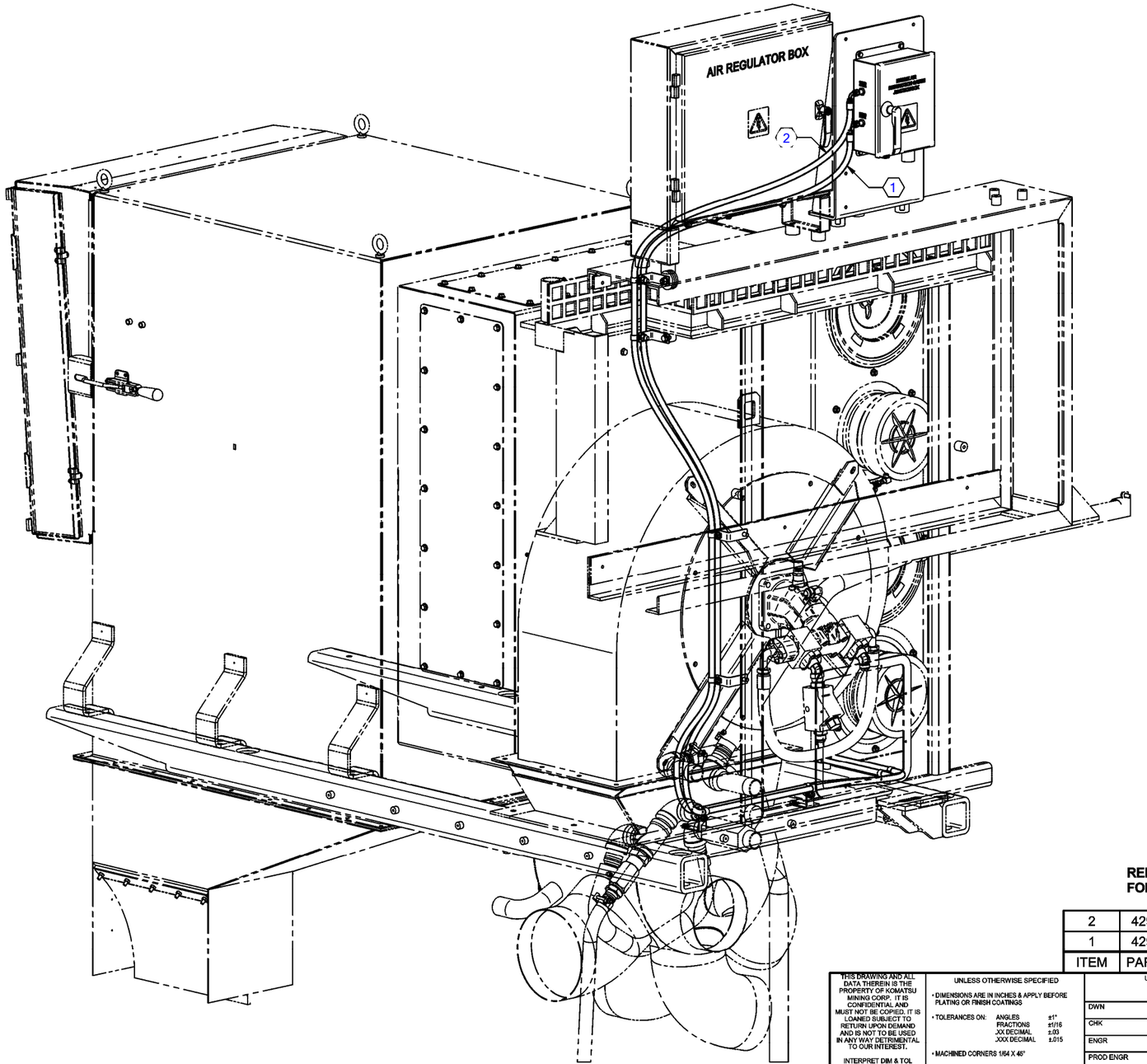
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR RESTRICTION HOSE GROUP



REF 429-2309 GP HDW AIR RESTRICTION GA T2
FOR HARDWARE INSTALLATION

ITEM	PART NO.	QTY	DESCRIPTION
2	4292303	1	HOSE 5000 4 202.0 0J 90J
1	4292302	1	HOSE 5000 4 182.0 0J 90J

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- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

USED ON

		DATE
DWN	rhyatt	8-04-17
CHK	EER	8-04-17
ENGR	EER	8-04-17
PROD ENGR		
PROJ APPROVAL	JBD	8-04-17
MATL		

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GP HOSE AIR RESTRICTION GA 2T

SIZE C | DO NOT SCALE | DWG NO. 4292310 | REV 01

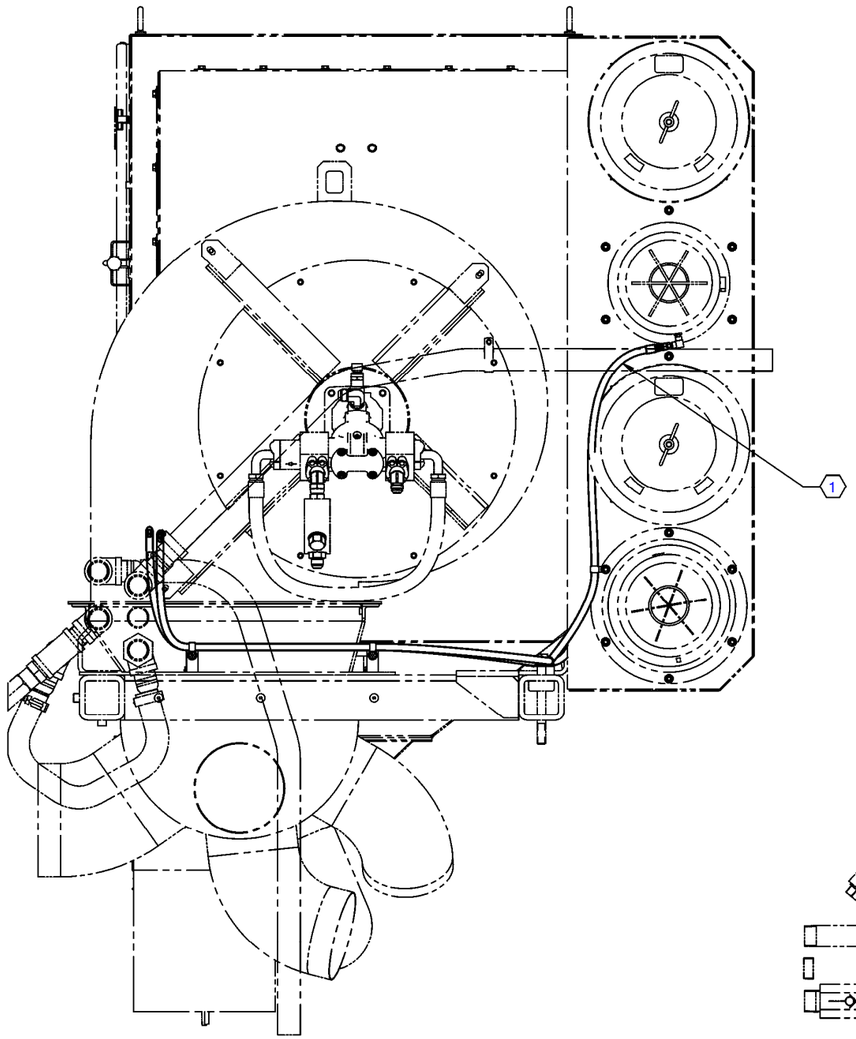
SCALE 1:8 | EST WT 3.4 lbm | SHEET 1 OF 2

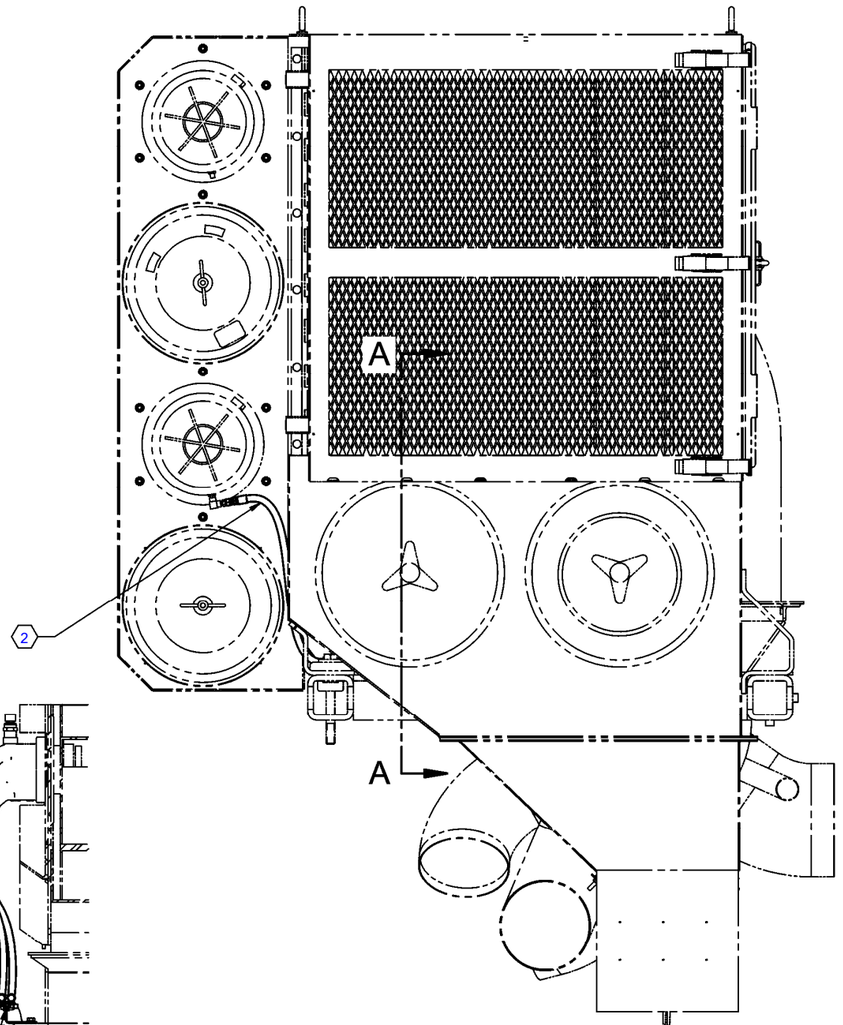
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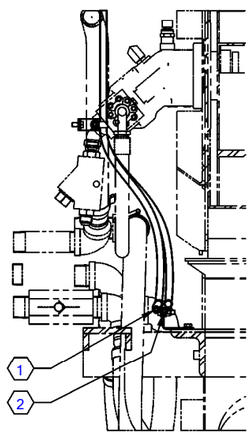
AIR RESTRICTION HOSE GROUP

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AIR RESTRICTION HOSE GROUP







01 SECTION A-A

GP HOSE AIR RESTRICTION GA 2T				
DRAWN rhyatt	SIZE C	DO NOT SCALE	DWG NO. 4292310	REV 01
ISSUED 8-04-17	SCALE 1:8	EST WT 3.4 lbm	SHEET 2 OF 2	

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AIR RESTRICTION HOSE GROUP

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AIR RESTRICTION HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4292310		AIR RESTRICTION HOSE GROUP		
1	R4292302	1	· HOSE ASSEMBLY, #4 X 182"		
2	R4292303	1	· HOSE ASSEMBLY, #4 X 202"		
			DRAWING, AIR RESTRICTION HOSE GROUP (R429231001)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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L-1350-2302 PARTS MANUAL
Miscellaneous

SECTION OR GROUP TITLE
TOOL GROUP
LIFTING DEVICES
FRONT FRAME AUTO LUBE HARDWARE GROUP
FRONT FRAME AUTO LUBE HOSE GROUP
REAR FRAME AUTO LUBE HARDWARE GROUP
REAR FRAME AUTO LUBE HOSE GROUP
LIFTARM AUTO LUBE HARDWARE GROUP
LIFTARM AUTO LUBE HOSE GROUP
AUTO LUBE GREASE RESERVOIR AND PUMP ASSEMBLY
STANDARD CLIMATE FLUIDS GROUP
CENTRAL SERVICE GROUP
AIR BLOW GUN GROUP
FIRE EXTINGUISHER
COUNTERWEIGHT KIT
TRAINING SEAT ASSEMBLY AND MOUNT
Komatsu has made effort to make this manual as accurate as possible based on the information available at the time of publication and printing.
Continuous improvement and advancement of product design may cause changes to machines which may not have been included in this publication.
Komatsu reserves the right to make changes and improvements at any time.
To ensure the most current information, please use the Komatsu On-Line Parts Manual Database or contact your service center.
This illustrated Parts Manual is now designed primarily for electronic viewing.
It is best viewed from the DVD or the Komatsu On-Line Parts Manual Database.
In its printed paper version some items in the illustrations may appear small and the reference numbers may be difficult to read.
In a case where a number or view is unreadable you will need to view it electronically and use the zoom feature.
NOTE: Many of the parts for factory-installed optional components are found in this section.
It is essential to verify the optional equipment on the machine and check the parts lists in this section prior to ordering parts.
Should there be questions or need for additional information concerning parts for factory-installed options, contact the Komatsu Parts Sales Department before placing an order.

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4285207		TOOL GROUP		7/5/17
1	R4216205	REF	· GREASE, UNIREX - 14-OZ. CARTRIDGE		
2	R4234048	REF	· GREASE GUN		
3	R4009523	4	· BOLT, 3/4"-10 X 1-1/2"		
4	R4075801	2	· LIFTING EYE, 1"-14 X 1-1/2" X 1-1/2" EYE		
5	R4075803	4	· LIFTING EYE, 3/4"-16 X 1-1/2" X 1-1/2" EYE		
6	R4162114	1	· SOCKET, IMPACT - MODIFIED, 1" DRIVE X 1" 12 POINT SOCKET		
7	R4086118	1	· SOCKET, 1" DRIVE X 1-1/4" 12 POINT SOCKET		
8	R4116384	1	· LIFTING EYE PLATE, ROPS		
9	R4162120	1	· GAUGE ASSEMBLY, 0-4000 PSI		
10	R4032503	1	· · BUSHING, 1/8" FP X 1/4" MP		
11	R4041347	1	· · COUPLING, QUICK - FEMALE X 1/4" FP		
12	R4041349	1	· · PLUG, QUICK COUPLING		
13	R4154747	1	· · GAUGE, HYDRAULIC		
14	R4123740	1	· OIL, GEAR - 5-GALLON PAIL, 75W 140 SYNTHETIC		
15	R4162332	1	· TEST FITTING ASSEMBLY, RELIEF VALVE		
16	R4078968	1	· · TEE, #8 MJ X #8 FJ X #8 MJ		
17	R4162330	1	· · REDUCER, 8-4 JIC		
18	R4163884	1	· SOCKET STRUCTURE, 83T - 16/32P		
19	R4080984	1	· WRENCH STRUCTURE, 1" SQ. SOCKET X 1" 12-PT. SOCKET		
20	R4219191	1	· TEST BLOCK ASSEMBLY, RDFA RELIEF VALVE		
21	R4222437	1	· · CAP, QUICK COUPLING		
22	R4222435	1	· · COUPLING, QUICK - MALE X 1/4" FP		
23	R4030298	1	· · NIPPLE, PIPE - 1/4", HEX		
24	R4031446	1	· · TEE, 1/4" FP		
25	R4021571	1	· · ADAPTER, 1/4" MP X #8 MJ		
26	R4219116	1	· · MANIFOLD, RELIEF - T3A		
27	R4116596	1	· · GAUGE, PRESSURE - 0-4000 PSI		
28	R4002455	1	· · ADAPTER, #8 MO X #8 MJ		
29	R4002280	1	· · O-RING, 3/8" I.D. - BUNA N		
30	R4231495	1	· TOOL, BUSHING REMOVAL - 7-1/4" O.D.		
31	R4231496	1	· TOOL, BUSHING REMOVAL - 4-7/8" O.D.		
33	R4162120	1	· GAUGE ASSEMBLY, 0-4000 PSI		
34	R0513704	1	· · BUSHING, 1/8" FP X 1/4" MP		
35	R4154747	2	· · GAUGE ASSEMBLY, 0-4000 PSI		
36	R4223016	1	· · COUPLING ASSEMBLY, QUICK - MALE X 1/4" MP		
37	R4223019	1	· · COUPLING, QUICK - FEMALE X #4 MJ		
40	R4219622	1	· TEST BLOCK - DANFOSS OVERLOAD RELIEF		
41	R4236579	1	· TOOL, BUSHING REMOVAL - 8-5/8" O.D.		
42	R4168318	1	· TOOL, BUSHING REMOVAL		4/5/11
43	R4217253	1	· DRIVER LIFTING FIXTURE		1/24/07
44	R4253673	1	· TEST BLOCK ASSEMBLY		2/23/06
47	R4254570	1	· STUD, 1-1/4"-7 X 12" - TORQUE WRENCH BACK-UP		8/26/08
49	R4264953	1	· ULTRASONIC LEAK DETECTOR		4/5/11
50	R4270067	1	· SCREWDRIVER, INSULATED - 2.5 MM X 75 MM (SEE NOTE 1)		4/5/11
51	R4270068	1	· SCREWDRIVER, INSULATED - 3.5 MM X 100 MM (SEE NOTE 1)		4/5/11
52	R4270098	1	· CRIMPER, DEUTSCH (SEE NOTE 2)		4/5/11
53	R4252726	1	· SMALL O-RING KIT - 50 SERIES		7/5/17
54	R0828984	1	· · O-RING, .188 X 6.119, BUNA N - USE: FUEL SYSTEM		7/5/17
55	R4002280	4	· · O-RING, .078 X .47, BUNA N - USE: FOR R4219191 TEST BLOCK ADAPTER		7/5/17
56	R4002282	4	· · O-RING, .097 X .76, BUNA N - USE: FOR R4219191 TEST BLOCK ADAPTER		7/5/17

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
57	R4068357	25	· · SEAL, SPLIT FLANGE #20 1.25, POLYURETHANE - REPLACES R4222170 - USE: FLUID POWER GROUP		7/5/17
58	R4068358	50	· · SEAL, SPLIT FLANGE #24 1.5, POLYURETHANE - REPLACES R4222171 - USE: FLUID POWER GROUP		7/5/17
59	R4068830	8	· · O-RING, .139 4.98, VITON - REPLACES R4147284 - USE: FLUID POWER GROUP & GEARBOX		7/5/17
60	R4071255	50	· · SEAL, SPLIT FLANGE #32 2.0, POLYURETHANE - REPLACES R4222172 - USE: FLUID POWER GROUP		7/5/17
61	R4105004	5	· · O-RING, .139 .98, POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
62	R4105005	20	· · SEAL, SPLIT FLANGE #16 1.0, POLYURETHANE - REPLACES R4222169 - USE: FLUID POWER GROUP		7/5/17
63	R4116301	30	· · O-RING, SPLIT FLANGE #40 2-1/2 SAE, POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
64	R4123584	4	· · QUAD RING SEAL, .139 X 3.359" I.D., BUNA N - USE: FLUID POWER GROUP		7/5/17
65	R4123585	4	· · QUAD RING SEAL, .139 X 3.859" I.D., BUNA N - USE: FLUID POWER GROUP		7/5/17
66	R4123586	4	· · QUAD RING SEAL, .139 X 4.359" I.D., BUNA N - USE: FLUID POWER GROUP and oil cooler		7/5/17
67	R4131587	2	· · O-RING, .139 1.73, POLYURETHANE - USE: STEERING JUNCTION VALVE		7/5/17
68	R4133132	4	· · O-RING, 3/8" SAE BOSS, POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
69	R4133133	2	· · O-RING, .087 .64, POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
70	R4154858	8	· · O-RING, .139 2.63, POLYURETHANE - REPLACES R4222476 - USE: OIL COOLER CONTROL VALVE		7/5/17
71	R4243926	4	· · O-RING, .103 3.237, POLYURETHANE - USE: SUCTION FILTER		7/5/17
72	R4244637	9	· · O-RING, .139 6.48, VITON - REPLACES R4237599 - USE: FLUID POWER GROUP & GEARBOX		7/5/17
73	R4244771	1	· · O-RING, .139 3.23, VITON - REPLACES R4102824 - USE: FLUID POWER GROUP		7/5/17
74	R4244772	8	· · O-RING, .139 5.98, VITON - REPLACES R4181235 - USE: FLUID POWER GROUP & GEARBOX		7/5/17
75	R4247845	1	· · O-RING, .070 .3489, BUNA N - USE: POSITION INDICATOR ASSEMBLY		7/5/17
76	R4247863	2	· · O-RING, .070 1.05, BUNA N - USE: FUEL SYSTEM		7/5/17
77	R4247879	2	· · O-RING, .070 .489, BUNA N - USE: POSITION INDICATOR ASSEMBLY		7/5/17
78	R4257212	2	· · O-RING, .139 3.98, VITON - REPLACES R4110761 - USE: FLUID POWER GROUP		7/5/17
79	R4267979	2	· · O-RING, 1-1/4" I.D. - POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
80	R4268035	1	· · O-RING, .103 2.11 - POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
81	R4268036	1	· · O-RING, .103 1.74 - POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
			NOTE 1:		4/5/11
			THESE SCREWDRIVERS ARE USED ON ELECTRICAL CABINET TERMINAL STRIP SCREWS.		
			NOTE 2:		4/5/11
			· CRIMPER USED TO CONNECT DEUTSCH SOLID PINS AND SOCKETS TO WIRES.		

NONE
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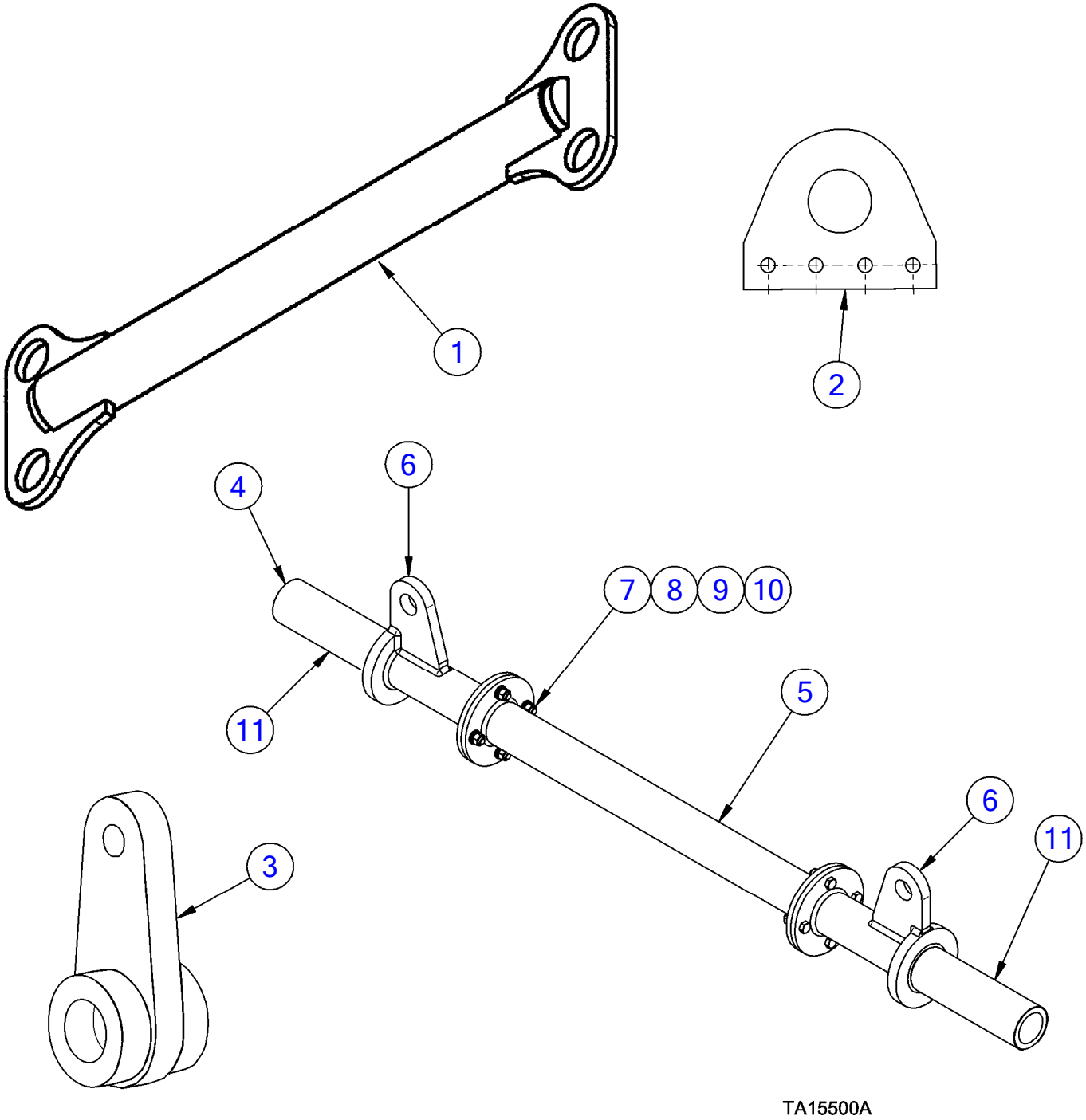
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R0459294	REF	LOCTITE ANTI-SEIZE LUBE, 1 LB	1	1/24/07
	R4210352	REF	TEST BLOCK - HUSCO RELIEF	1	1/24/07

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			LIFTING DEVICES (PL-635)		6/8/18
1	R1034320	1	LIFTING DEVICE, BUCKET CYLINDER - L-950/L-1150 ONLY		
2	R4116384	1	LIFTING EYE PLATE, ROLL BAR		
	R4009523	4	BOLT, 3/4"-10 X 1-1/2"		
3	R4188619	2	LIFT STRUCTURE, REAR FRAME - FRONT		
4	R1042684	1	LIFTING DEVICE, LIFTARM - L-1350/L-1850/L-2350 ONLY		6/8/18
5	R4294832	1	· SUPPORT TUBE STRUCTURE		6/8/18
6	R1042686	2	· LIFTING GUSSET STRUCTURE		6/8/18
7	R0021646	8	· BOLT, 3/4"-10 X 2-1/2"		6/8/18
8	R4016046	8	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		6/8/18
9	R0021542	8	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		6/8/18
10	R0021527	8	· NUT, 3/4"-10		6/8/18
11	R4294831	2	· PIPE, 4" I.D. X 15" - PLASTIC		6/8/18

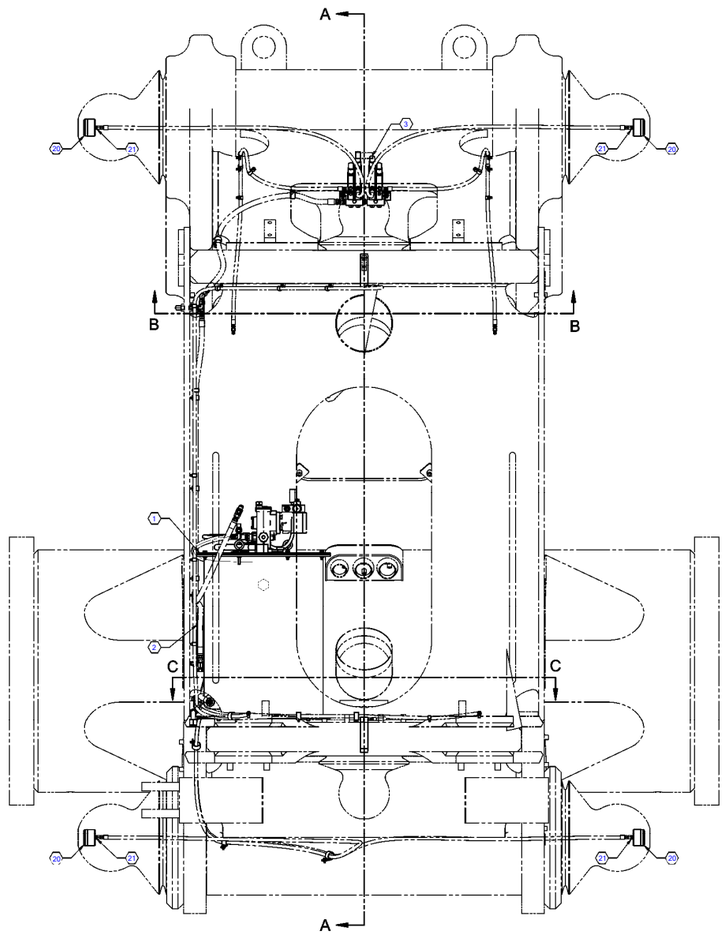
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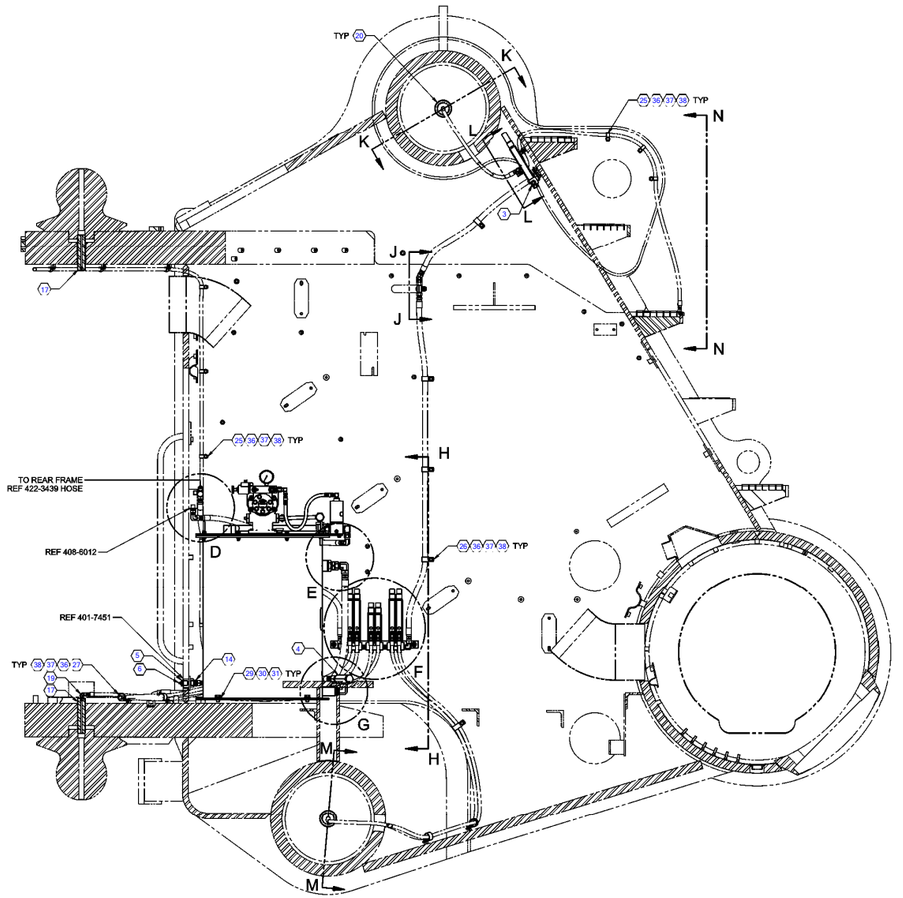
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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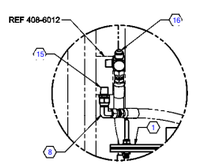
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FRONT FRAME AUTO LUBE HARDWARE GROUP

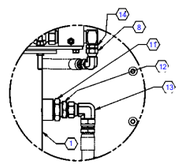




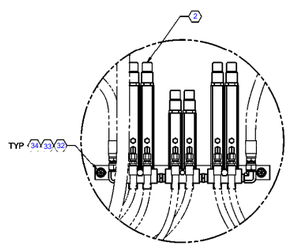
SECTION A-A



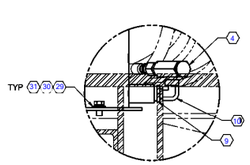
DETAIL D



DETAIL E



DETAIL F



DETAIL G

ITEM	PART NO.	QTY	DESCRIPTION
38	0812278	29	BOLT HEX .250 -.63 NC G8 FT
37	0213584	29	WASHER LOCK SPR .25 .49 .06
36	4010923	29	WASHER FLAT .250 .63 .065
35	0788159	2	BOLT HX .375 .625 NC G8 FT
34	0810971	4	BOLT HX .375 1.000 NC G8 FT
33	0753123	6	WASHER LOCK SPR .375 .68 .09
32	0808221	6	WASHER FLAT .375 .81 .08
31	0801180	4	BOLT HX .500 1.000 NC G8 FT
30	0801181	4	WASHER LOCK SPR .500 .873 .125
29	0810991	4	WASHER FLAT .531 1.062 .121
28	0986145	2	CLAMP CABLE INSL 1.50 .406
27	0986144	6	CLAMP CABLE INSL 1.25 .406
26	0986143	6	CLAMP CABLE INSL 1.00 .406
25	4086112	17	CLAMP CABLE INSL .63 .40
24	4002439	1	FTG HYD 90 8 MJ 6 MP
23	4016199	1	45 DEG SWIVEL ELBOW

ITEM	PART NO.	QTY	DESCRIPTION
22	4041768	1	FTG HYD TE 8 MJ 8 MJ 8 FJ
21	4016785	4	FTG HYD 0 4 MJ 4 MP
20	4170674	4	PLUG ASSEMBLY - 3
19	0979138	4	FTG HYD 90 4 MJ 2 MP
18	0978832	2	FTG HYD 0 4 MJ 2 MP
17	4241160	2	TUBE, EXTENSION
16	4038894	1	FTG HYD TE 8 MJ 8 MJ 6 MP
15	4002420	2	FTG HYD 0 8 MJ 6 MP
14	4018666	2	FTG HYD 0 8 MJ 8 MP JUMP
13	4002481	1	FTG HYD 90 12 MJ 12 FJ SWVL
12	4040561	1	FTG HYD 0 12 MJ 16 MP
11	4013799	1	PIPE BUSHING 1.250 1.000 6000
10	4032325	1	PIPE HYD ST ELB 90 8 MP X 6 FP
9	4013795	1	PIPE BUSHING, RED 1 X 1/2
8	4002479	2	HYD FITTING, 90-DEG 8 MJ 8 FJ
7	4222474	1	FTG HYD 0 8MJ 8FP
6	0020315	1	GREASE FITTING 1/8 NPT
5	4222475	1	PIPE RED .500 .125 BSH 6000
4	4222441	1	FILTER LUBRICATOR #84004
3	4274728	1	ASSY UP INJ F FRM L13 - L23 G2
2	4274727	1	ASSY LWR INJ FR FRM L19/L23 G2
1	4279092	1	ASSY GREASE RESERVOIR - PUMP

REF 427-4769 GP HOSES AUTOLUBE FF L1350 G2 **FOR HOSE INSTALLATION**

REF 428-7373 GP HSEM AUTOLUBE FF L1350 G2 **FOR MDG HOSE INSTALLATION**

REF 426-7515 REFAUTO LUBE L1350 G2 **FOR SCHEMATIC**

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, .XX DECIMAL ±.03, .XXX DECIMAL ±.015
- MACHINED CORNERS .164 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 426-9721

		MFR.
DWN		11-30-11
CHK		11-30-11
ENGR		11-30-11
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HDW AUTOLUBE FF L1350 G2

SIZE E | DO NOT SCALE | DWG NO. 4274761 | REV 04

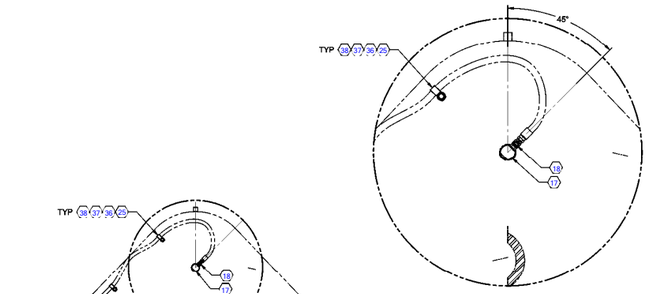
SCALE 1/8 | WT KT 451.5 lbm | SHEET 1 OF 2

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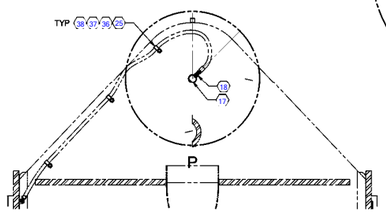
FRONT FRAME AUTO LUBE HARDWARE GROUP

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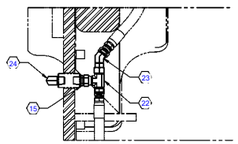
FRONT FRAME AUTO LUBE HARDWARE GROUP



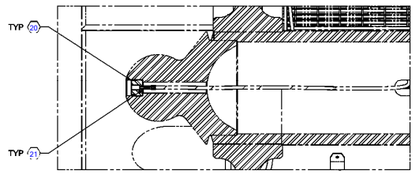
DETAIL P



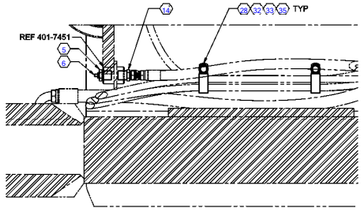
SECTION B-B



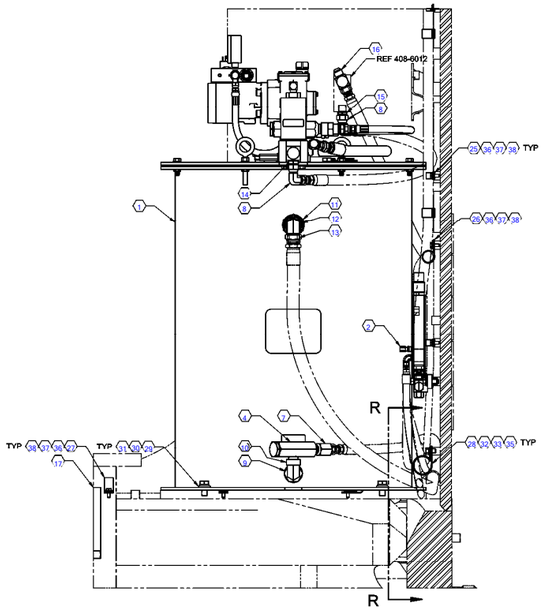
SECTION J-J
1:4



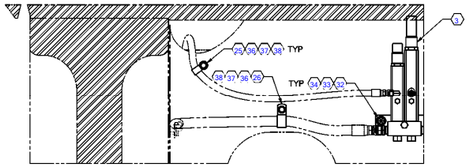
SECTION K-K
INSIDE CROSSTUBE / BALL
SHOWN ONLY



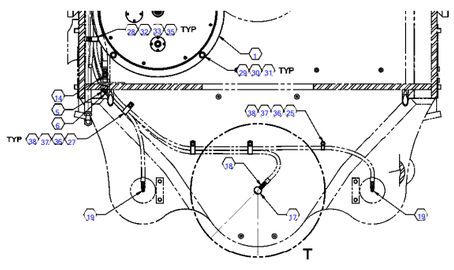
SECTION R-R
IT1(427-9092) GREASE RESERVOIR
NOT SHOWN FOR CLARITY



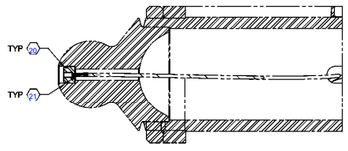
SECTION H-H
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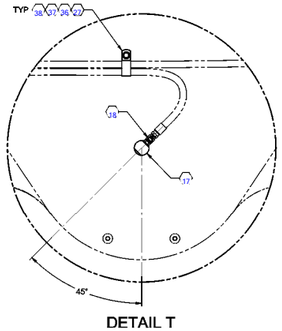
SECTION L-L
1:4



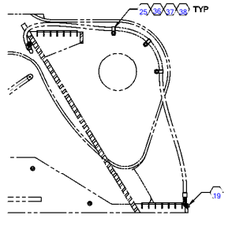
SECTION C-C



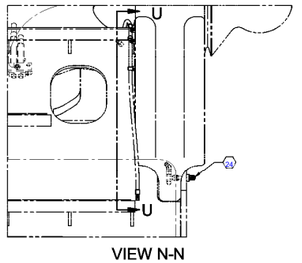
SECTION M-M
INSIDE CROSSTUBE / BALL
SHOWN ONLY



DETAIL T



SECTION U-U



VIEW N-N

GP HDW AUTOLUBE FF L1350 G2				
DRAWN rhyatt	SIZE E	DO NOT SCALE	DWG NO. 4274761	REV 04
DRAWN 11-30-11	SCALE 1/8	WT 451.5 lbm	SHEET 2 OF 2	

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FRONT FRAME AUTO LUBE HARDWARE GROUP

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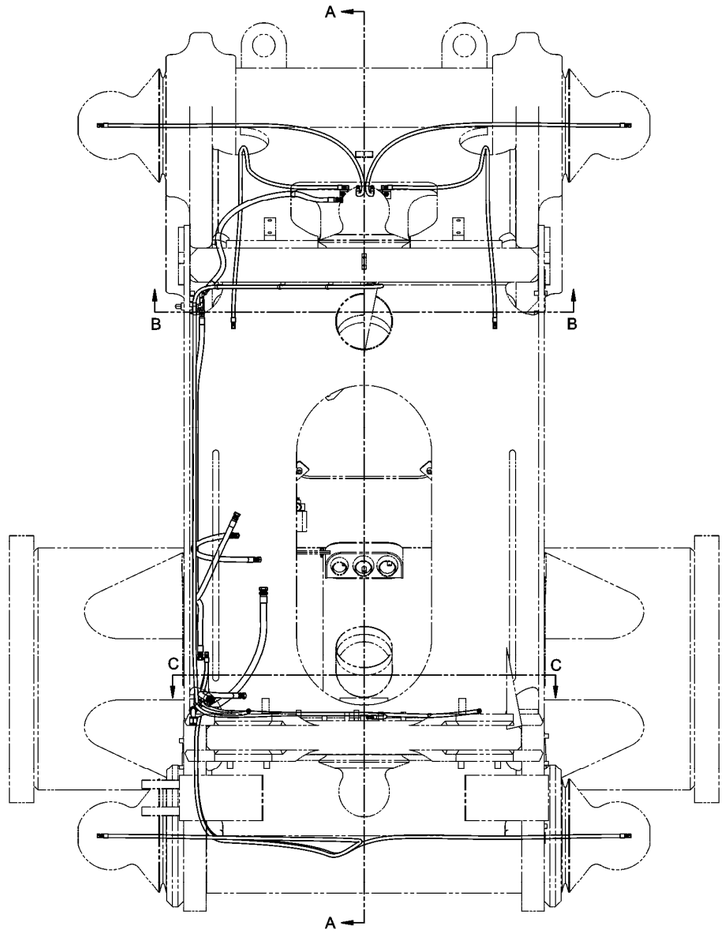
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274761		FRONT FRAME AUTO LUBE HARDWARE GROUP		6/13/19
1	R4279092	1	· AUTO LUBE GREASE RESERVOIR AND PUMP ASSEMBLY (PAGE 9.3-9.3G)		6/13/19
2	R4274727	1	· INJECTOR ASSEMBLY, FRONT FRAME - LOWER		
	R4271145	1	· · INJECTOR, 2-UNIT - SL-V		
	R4270869	1	· · · CAP, PROTECTIVE - SHORT		
	R4270902	1	· · · INJECTOR, SL-V		
	R4273348	2	· · INJECTOR, 2-UNIT - SL-V-XL		
	R4270870	2	· · · CAP, PROTECTIVE - LONG		
	R4270903	2	· · · INJECTOR, SL-V-XL		
3	R4274728	1	· INJECTOR ASSEMBLY, FRONT FRAME - UPPER		
	R4271146	1	· · INJECTOR, 2-UNIT - SL-V SL-V-XL		
	R4270869	1	· · · CAP, PROTECTIVE - SHORT		
	R4270870	1	· · · CAP, PROTECTIVE - LONG		
	R4270902	1	· · · INJECTOR, SL-V		
	R4270903	1	· · · INJECTOR, SL-V-XL		
	R4270906	1	· · INJECTOR, 2-UNIT - SL-V SL-V-XL		
	R4270869	1	· · · CAP, PROTECTIVE - SHORT		
	R4270870	1	· · · CAP, PROTECTIVE - LONG		
	R4270902	1	· · · INJECTOR, SL-V		
	R4270903	1	· · · INJECTOR, SL-V-XL		
4	R4222441	1	· FILTER, LUBRICANT		
	R4267468	1	· · ELEMENT, FILTER		
	R4267469	1	· · GASKET		
5	R4222475	1	· BUSHING, 1/8" FP X 1/2" MP		
6	R0020315	1	· FITTING, GREASE - 1/8" MP		
7	R4222474	1	· ADAPTER, 1/2" FP X #8 MJ		
8	R4002479	2	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
9	R4013795	1	· BUSHING, 1/2" FP X 1" MP		
10	R4032325	1	· ELBOW, 1/2" FP X 90 deg. X 1/2" MP		
11	R4013799	1	· REDUCER, 1" FP X 1-1/4" MP		
12	R4040561	1	· ADAPTER, 1" MP X #12 MJ		
13	R4002481	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
14	R4018666	2	· ADAPTER, 1/2" MP X #8 MJ		
15	R4002420	2	· ADAPTER, 3/8" MP X #8 MJ		
16	R4038894	1	· TEE, #8 MJ X #8 MJ X 3/8" MP		
17	R4241160	2	· TUBE, EXTENSION		
18	R0978632	2	· ADAPTER, 1/8" MP X #4 MJ		
19	R0979138	4	· ELBOW, 1/8" MP X 90 deg. X #4 MJ - SWIVEL		
20	R4170674	4	· PLUG ASSEMBLY, 3" - LIFTARM PIVOT BALL		
	R4172095	4	· · SEAL, 2-1/2" I.D.		
21	R4016785	4	· ADAPTER, 1/4" MP X #4 MJ		
22	R4041768	1	· TEE, #8 FJ X #8 MJ X #8 MJ		
23	R4016199	1	· ELBOW, #8 FJ X 45 deg. X #8 MJ - SWIVEL		
24	R4002439	1	· ELBOW, 3/8" MP X 90 deg. X #8 MJ		
25	R4086112	17	· CLAMP, CABLE - INSULATED, 5/8"		
26	R0986143	6	· CLAMP, CABLE - INSULATED, 1"		
27	R0986144	6	· CLAMP, CABLE - INSULATED, 1-1/4"		
28	R0986145	2	· CLAMP, CABLE - INSULATED, 1-1/2"		
29	R0810991	4	· FLATWASHER, 1/2" X 1" X 1/8"		
30	R0801181	4	· LOCKWASHER, 1/2"		
31	R0801180	4	· BOLT, 1/2"-13 X 1"		
32	R0808221	6	· FLATWASHER, 3/8"		
33	R0753123	6	· LOCKWASHER, 3/8"		
34	R0810971	4	· BOLT, 3/8"-16 X 1"		
35	R0788159	2	· BOLT, 3/8"-16 X 5/8"		
36	R4010923	29	· FLATWASHER, 1/4"		
37	R0213584	29	· LOCKWASHER, 1/4"		

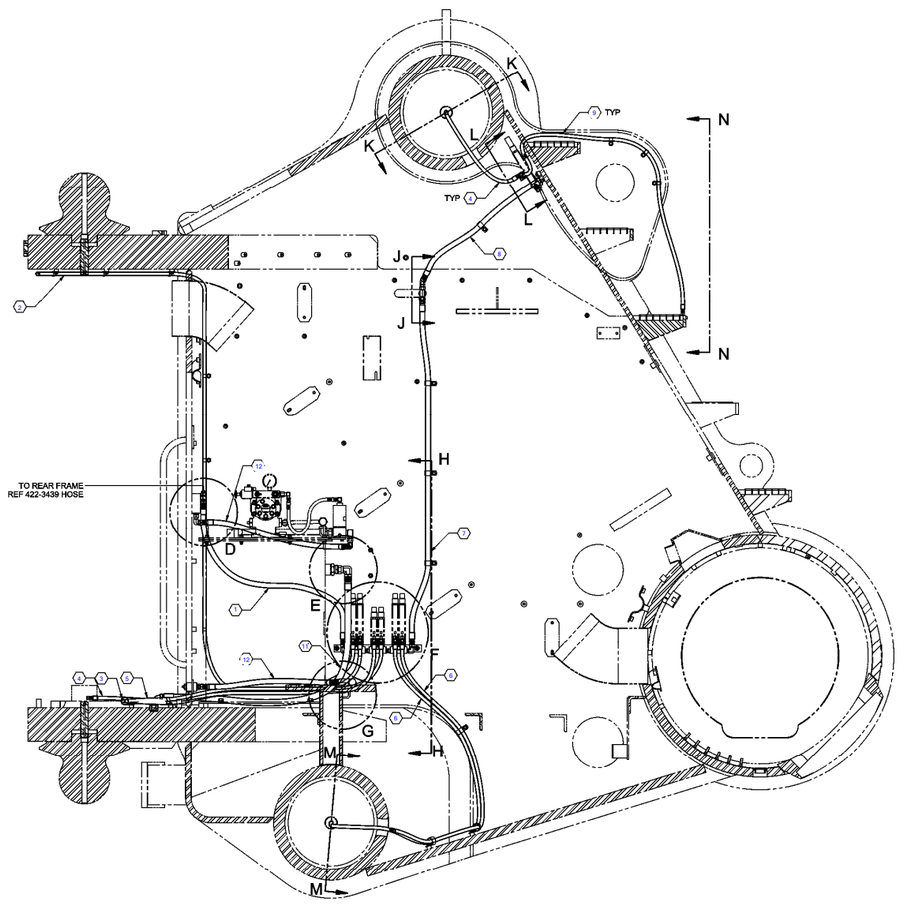
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
38	R0812278	29	· BOLT, 1/4"-20 X 5/8"		
	R4103739	AR	· SEALANT, HYDRAULIC - LOCTITE #569-31		
			DRAWING, FRONT FRAME AUTO LUBE HARDWARE GROUP (R427476104)		6/13/19

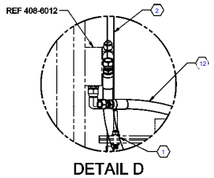
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FRONT FRAME AUTO LUBE HOSE GROUP

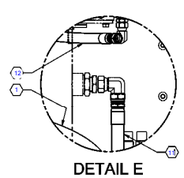




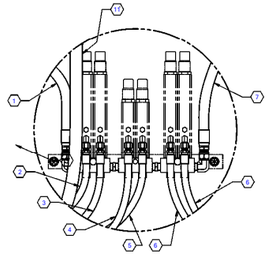
SECTION A-A



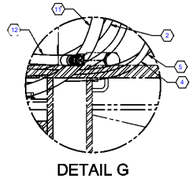
DETAIL D



DETAIL E



DETAIL F



DETAIL G

ITEM	PART NO.	QTY	DESCRIPTION
12	4129012	2	HOSE 4250 8 36.0 0J 0J
11	4222463	1	HOSE 1250 12 60.0 0J 90J
9	4150734	2	HOSE 5000 4 78.0 0J 0J
8	4129019	1	HOSE 4250 8 50.0 0J 0J
7	4129025	1	HOSE 4250 8 62.0 0J 0J
6	4296446	2	HOSE 4000 4 120.0 0J 0J AR
5	4296444	1	HOSE 4000 4 100.0 0J 0J AR
4	4296252	3	HOSE 4000 4 60.0 0J 0J AR
3	4292500	1	HOSE 5000 4 80.0 0J 0J AR
2	4296443	1	HOSE 4000 4 154.0 0J 0J AR
1	4129018	1	HOSE 4250 8 48.0 0J 0J

REF 427-6761 GP HDW AUTOLUBE FF L1350 G2 **FOR INJECTOR AND HARDWARE INSTALLATION**

REF 426-7515 REFAUTO LUBE L1350 G2 **FOR SCHEMATIC**

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1000.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS .184 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO
426-9721

	DATE
DWN	11-30-11
CHK	11-30-11
ENGR	11-30-11
PROD ENGR	
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

GP HOSES AUTOLUBE FF L1350 G2

SIZE E | DWG NO. 4274760 | REV 03

DO NOT SCALE

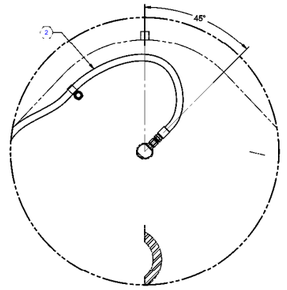
SCALE 1/8 | WT 116.0 lbm | SHEET 1 OF 2

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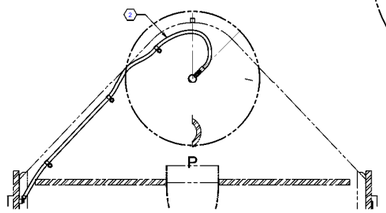
FRONT FRAME AUTO LUBE HOSE GROUP

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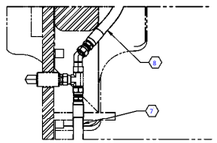
FRONT FRAME AUTO LUBE HOSE GROUP



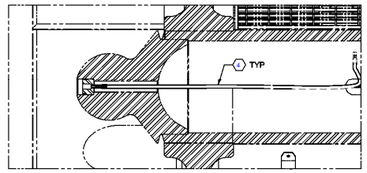
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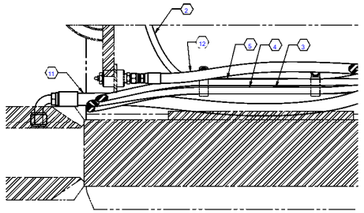
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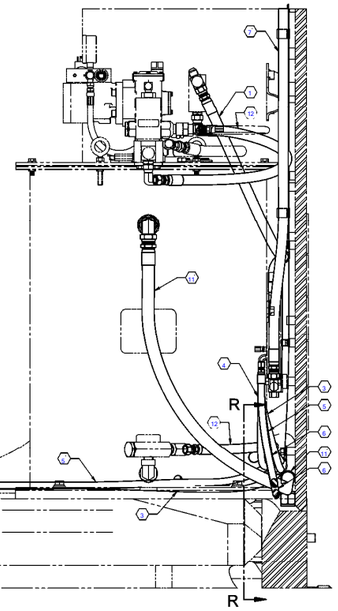
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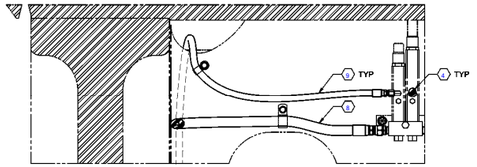
SECTION K-K
INSIDE CROSSTUBE / BALL
SHOWN ONLY



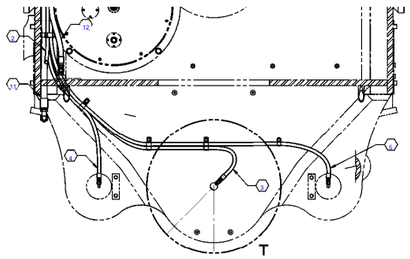
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427-9092 GREASE RESERVOIR
NOT SHOWN FOR CLARITY



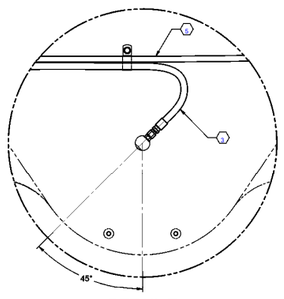
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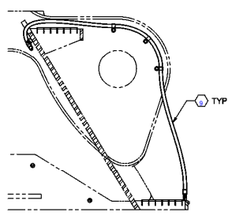
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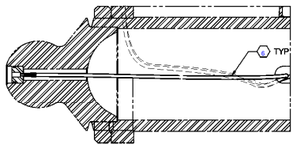
SECTION C-C



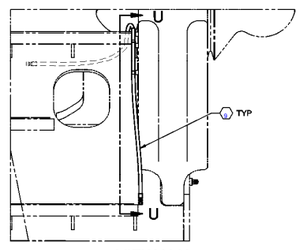
DETAIL T



SECTION U-U



SECTION M-M
INSIDE CROSSTUBE / BALL
SHOWN ONLY



VIEW N-N

GP HOSES AUTOLUBE FF L1350 G2	REV E	DO NOT SCALE	DWG NO. 4274760 REV 03
DRAWN ITPatE DATE 11-30-11	SCALE 1/8	WT 116.0 lbm	SHEET 2 OF 2

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FRONT FRAME AUTO LUBE HOSE GROUP

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FRONT FRAME AUTO LUBE HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274760		FRONT FRAME AUTO LUBE HOSE GROUP		6/13/19
1	R4129018	1	· HOSE ASSEMBLY, #8 X 48"		
2	R4296443	1	· HOSE ASSEMBLY, #4 X 154" - AR		6/13/19
3	R4292500	1	· HOSE ASSEMBLY, #4 X 80" - AR		6/13/19
4	R4296252	3	· HOSE ASSEMBLY, #4 X 60" - AR		6/13/19
5	R4296444	1	· HOSE ASSEMBLY, #4 X 100" - AR		6/13/19
6	R4296446	2	· HOSE ASSEMBLY, #4 X 120" - AR		6/13/19
7	R4129025	1	· HOSE ASSEMBLY, #8 X 62"		
8	R4129019	1	· HOSE ASSEMBLY, #8 X 50"		
9	R4150734	2	· HOSE ASSEMBLY, #4 X 78"		
10	N.P.N.		· NOT USED		
11	R4222463	1	· HOSE ASSEMBLY, #12 X 60"		
12	R4129012	2	· HOSE ASSEMBLY, #8 X 36"		
			DRAWING, FRONT FRAME AUTO LUBE HOSE GROUP (R427476003)		6/13/19

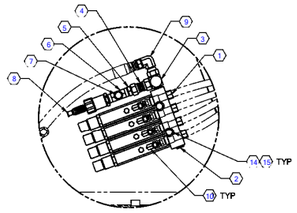
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

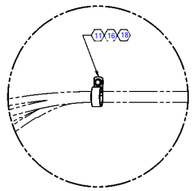
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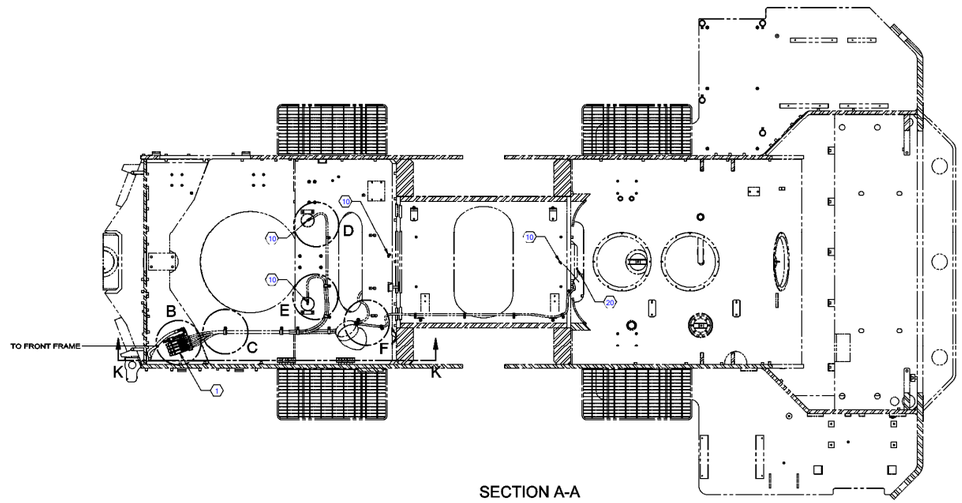
REAR FRAME AUTO LUBE HARDWARE GROUP



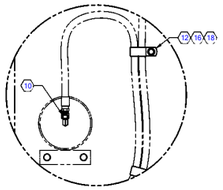
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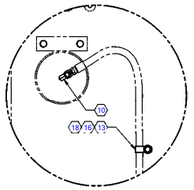
DETAIL C



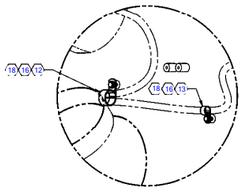
SECTION A-A



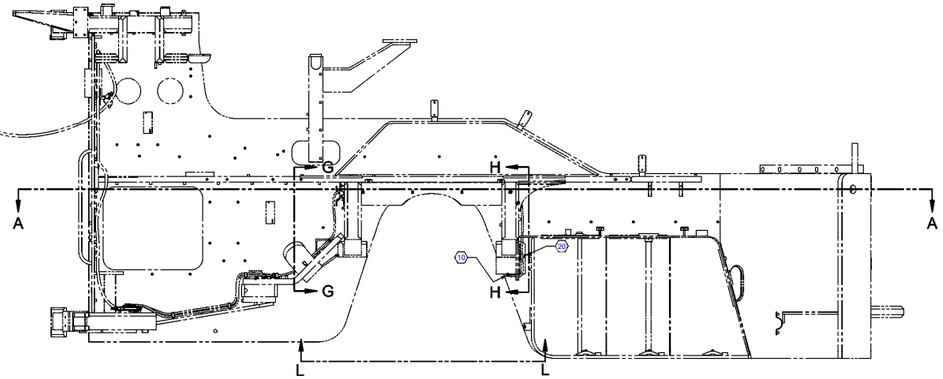
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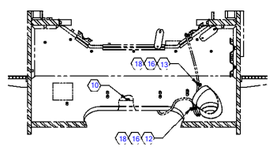


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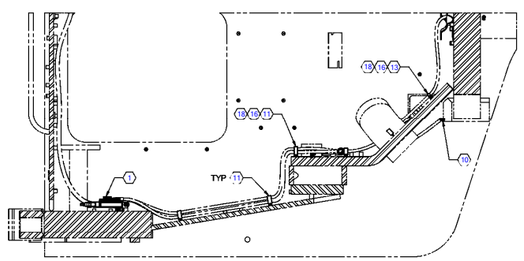


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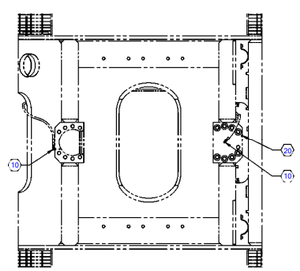




SECTION G-G



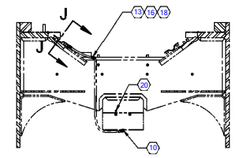
SECTION K-K



VIEW L-L



SECTION J-J



SECTION H-H

ITEM	PART NO.	QTY	DESCRIPTION
20	0716331	1	PIPE PLG .125 CS HX
18	0812278	14	BOLT HEX .250 .63 NC G8 FT
16	4010923	14	WASHER FLAT .250 .63 .065
15	4008641	2	BOLT HX .375 2.000 NC G8
14	0808221	2	WASHER FLAT .375 .81 .08
13	4086112	7	CLAMP CABLE INSL .63 .40
12	0986144	4	CLAMP CABLE INSL 1.25 .406
11	0986145	3	CLAMP CABLE INSL 1.50 .406
10	0979138	8	FTG HYD 90 4 MJ 2 MP
9	4002479	1	HYD FITTING, 90-DEG 8 MJ 8 FJ
8	4255496	1	KIT TRANSMITTER 5000 PSIG
7	4013779	1	PIPE PLG .250 OH HX
6	4031446	1	FTG HYD TE 4FP 4FP 4FP
5	4021571	1	FTG HYD 0 8 MJ 4 MP JUMP
4	4244980	1	FTG HYD 0 8 FJ 8 FJ SWV
3	4038895	1	FTH HYD TE 8 MJ 6 MP 8 MJ
2	0088402	1	PIPE PLG .375 CS HX
1	4271149	1	4 UNIT INJECTOR SL-V

REF 427-4762 GP HOSES AUTOLUBE RF L1350 G2 **FOR HOSE INSTALLATION**

REF 426-7515 REF AUTO LUBE L1350 G2 **FOR SCHEMATIC**

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- TOLERANCES ON: ANGLES ±1°, FRACTIONS ±1/16, XX.DECIMAL ±.03, XXX.DECIMAL ±.015
- MACHINED CORNERS .184 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO
426-9721

		DATE
DWN		12-02-11
CHK		12-02-11
ENGR		12-02-11
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HDW AUTOLUBE RF L1350 G2

SIZE E | DO NOT SCALE | DWG NO. 4274763 | REV 02

SCALE 1/16 | WT 14.2 lbm | SHEET 1 OF 1

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REAR FRAME AUTO LUBE HARDWARE GROUP

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274763	1	REAR FRAME AUTO LUBE HARDWARE GROUP		6/14/19
1	R4271149	1	· INJECTOR, 4-UNIT - SL-V		
	R4270869	4	· · CAP, PROTECTIVE - SHORT		
2	R0088402	1	· PLUG, PIPE - 3/8", HEX CSK.		
3	R4038895	1	· TEE, #8 MJ X 3/8" MP X #8 MJ		
4	R4244980	1	· ADAPTER, #8 FJ X #8 FJ - SWIVEL		
5	R4021571	1	· ADAPTER, 1/4" MP X #8 MJ		
6	R4031446	1	· TEE, 1/4" FP		
7	R4013779	1	· PLUG, PIPE - 1/4", HEX HD.		
8	R4255496	1	· TRANSMITTER KIT, PRESSURE - 5000 PSI		
	R4255491	1	· · TRANSMITTER, PRESSURE - 0-5000 PSI		
	R4255449	1	· · CABLE ASSEMBLY, TURCK - 4-PIN 250V 0.9M		
9	R4002479	1	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
10	R0979138	8	· ELBOW, 1/8" MP X 90 deg. X #4 MJ - SWIVEL		
11	R0986145	3	· CLAMP, CABLE - INSULATED, 1-1/2"		
12	R0986144	4	· CLAMP, CABLE - INSULATED, 1-1/4"		
13	R4086112	7	· CLAMP, CABLE - INSULATED, 5/8"		
14	R0808221	2	· LOCKWASHER, 3/8"		6/14/19
15	R4009641	2	· BOLT, 3/8"-16 X 2"		
16	R4010923	14	· FLATWASHER, 1/4"		
17	N.P.N.		· NOT USED		6/14/19
18	R0812278	14	· BOLT, 1/4"-20 X 5/8"		
19	N.P.N.		· NOT USED		6/14/19
20	R0716331	1	· PLUG, PIPE - 1/8", HEX CSK.		
	R4103739	1	· SEALANT, HYDRAULIC - LOCTITE #569-31		
			DRAWING, REAR FRAME AUTO LUBE HARDWARE GROUP (R427476302)		6/14/19

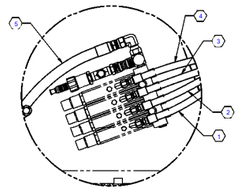
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

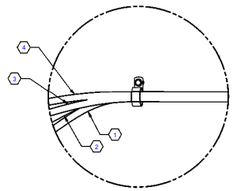
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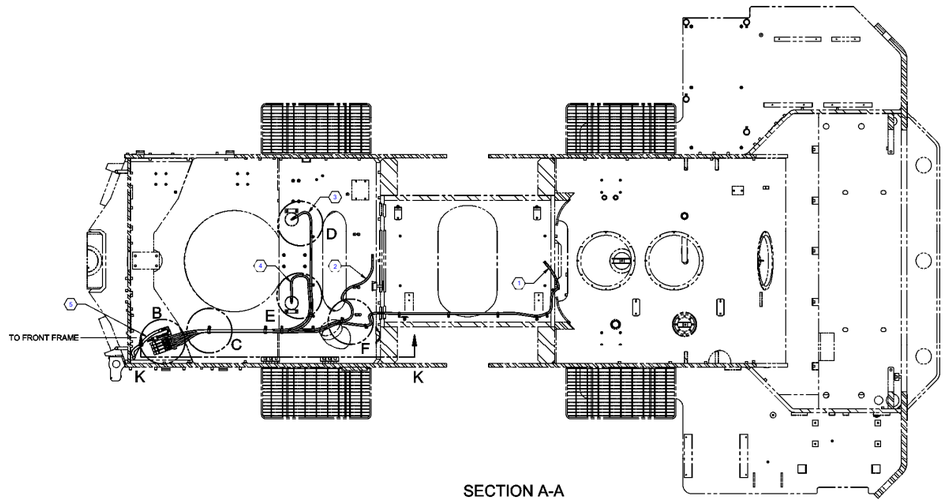
REAR FRAME AUTO LUBE HOSE GROUP



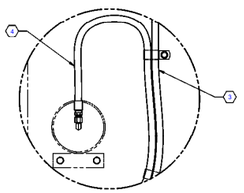
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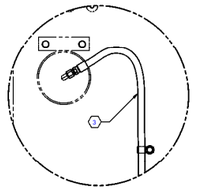
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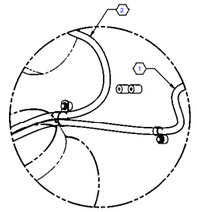
SECTION A-A



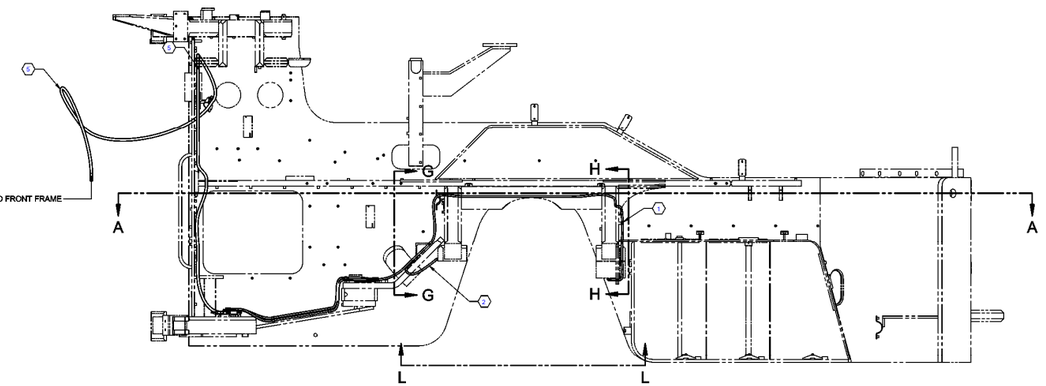
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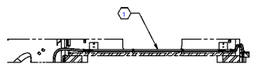


DETAIL D

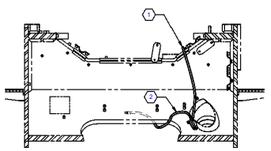


DETAIL F

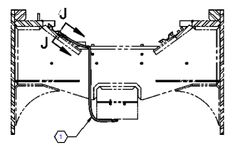




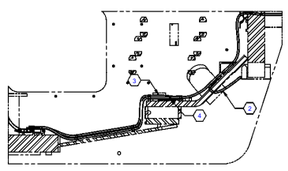
SECTION J-J



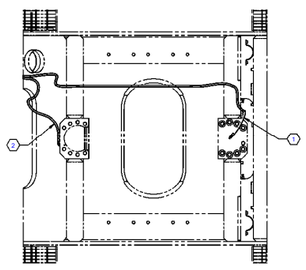
SECTION G-G



SECTION H-H



SECTION K-K



VIEW L-L

REF 428-4613 GP HSEM AUTOLUBE RF L1350 G2 **FOR MDG HOSE INSTALLATION**

REF 427-4763 GP HDW AUTOLUBE RF L1350 G2 **FOR INJECTOR AND HARDWARE INSTALLATION**

ITEM	PART NO.	QTY	DESCRIPTION
5	4295042	1	HOSE 4000 8 262.0 0J 0J AR
4	4298040	1	HOSE 4000 4 90.0 0J 0J AR
3	4298041	1	HOSE 4000 4 108.0 0J 0J AR
2	4298042	1	HOSE 4000 4 114.0 0J 0J AR
1	4296434	1	HOSE 4000 4 224.0 0J 0J AR

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- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS .156 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 426-9721

DWN		12-01-11
CHK		12-01-11
ENGR		12-01-11
PROD ENGR		
PROJ APPROVAL		12-01-11
MATL		

LeTourneau Technologies™

GP HOSES AUTOLUBE RF L1350 G2

SIZE E | DO NOT SCALE | DWG NO. 4274762 | REV 03

SCALE 1:8 | WEIGHT 61.5 lbm | SHEET 1 OF 1

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REAR FRAME AUTO LUBE HOSE GROUP

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REAR FRAME AUTO LUBE HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274762		REAR FRAME AUTO LUBE HOSE GROUP		6/14/19
1	R4296434	1	· HOSE ASSEMBLY, #4 X 224" - AR		6/14/19
2	R4298042	1	· HOSE ASSEMBLY, #4 X 114" - AR		6/14/19
3	R4298041	1	· HOSE ASSEMBLY, #4 X 108" - AR		6/14/19
4	R4298040	1	· HOSE ASSEMBLY, #4 X 90" - AR		6/14/19
5	R4295042	1	· HOSE ASSEMBLY, #8 X 262" - AR		6/14/19
			DRAWING, REAR FRAME AUTO LUBE HOSE GROUP (R427476203)		6/14/19

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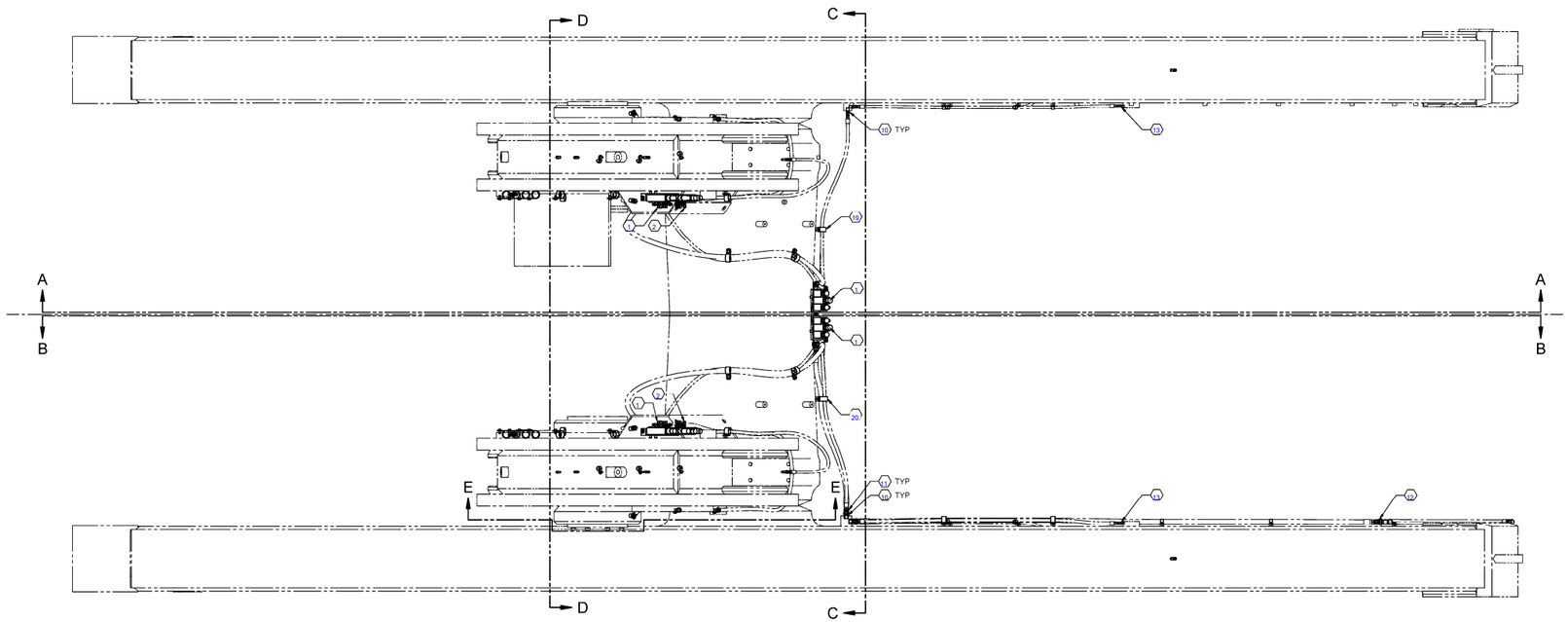
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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LIFTARM AUTO LUBE HARDWARE GROUP

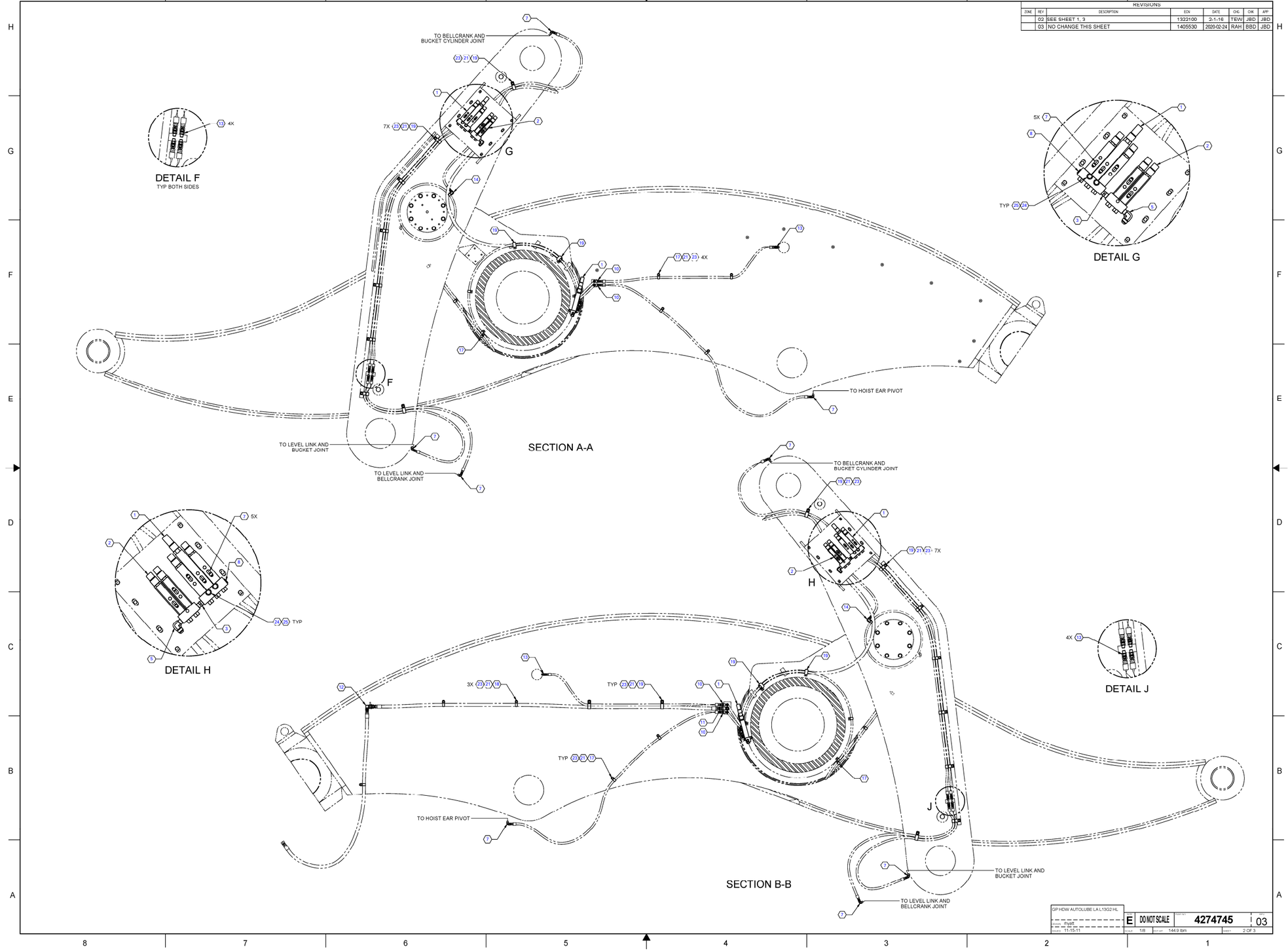
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	02	ADDED MDG HOSE GP NOTE	1322100	2-1-16	TEW	JBD	JBD
	03	DEL IT22, IT26, IT24 WAS 0753123	1405530	2020-02-24	RAH	BBD	JBD


D
C
A
B
E
TYP
TYP
TYP

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LIFTARM AUTO LUBE HARDWARE GROUP

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	APP
	02	SEE SHEET 1, 3	1322100	2-1-16	TEW	JBD	JBD
	03	NO CHANGE THIS SHEET	1405530	2020-02-24	RAH	BBD	JBD



GP HDW AUTOLUBE LA L13G2 HL

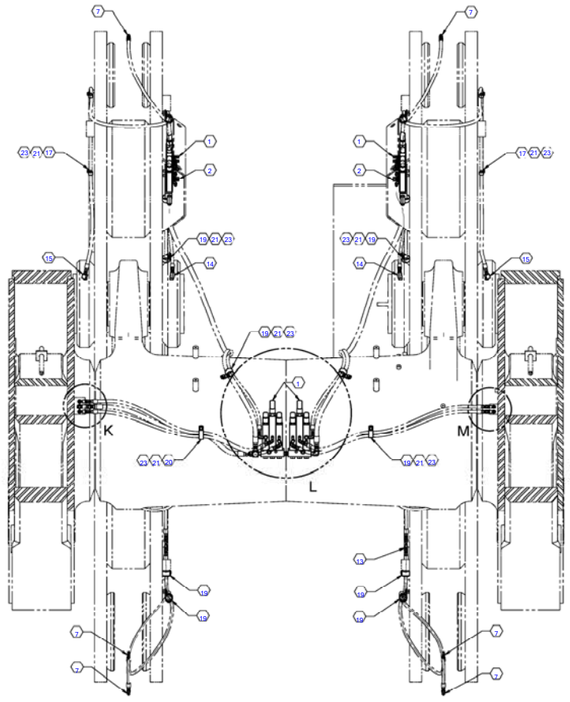
DRAWN	rhyatt	E	DO NOT SCALE	4274745	03
DATE	11-15-11	SCALE	1/8	WT.	144.9 lbm	SHEET	2 OF 3

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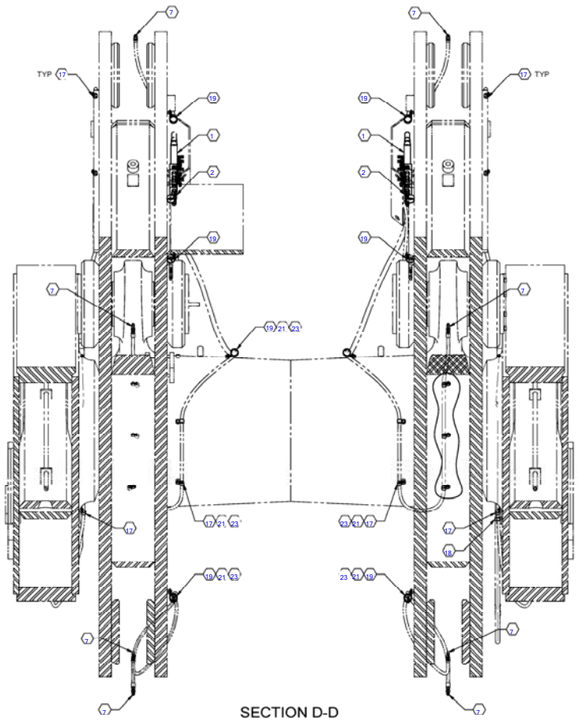
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LIFTARM AUTO LUBE HARDWARE GROUP

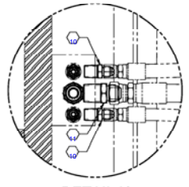
REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	02	SEE SHEET 1, 2	1322100	2-1-16	TEW	JBD	JBD
	03	DEL VIEW N-N	1405530	2020-02-24	RAH	BBD	JBD



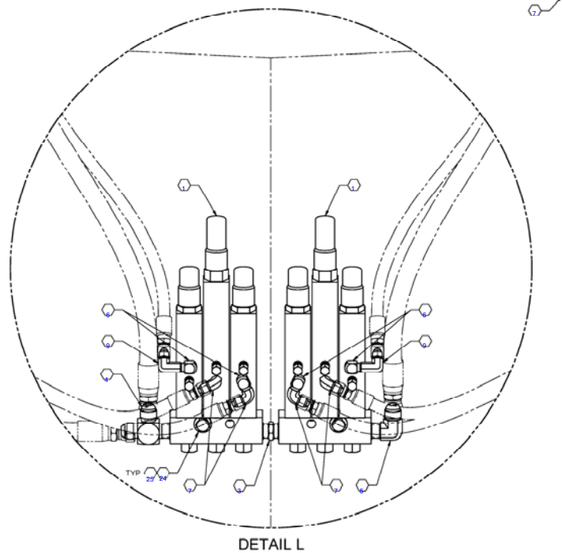
SECTION C-C



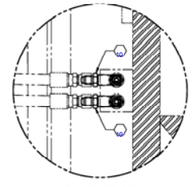
SECTION D-D



DETAIL K
1:2
FTGS TYP BOTH SIDES OF GREASE BLOCK



DETAIL L
1:2



DETAIL M
1:2
FTGS TYP BOTH SIDES OF GREASE BLOCK

GP HDW AUTOLUBE LA L13G2 HL | E | DO NOT SCALE | 4274745 | 03 | 3 OF 3

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274745		LIFTARM AUTO LUBE HARDWARE GROUP		9/15/20
1	R4270905	4	· INJECTOR, 3-UNIT - SL-V SL-V-XL		
2	R4271145	2	· INJECTOR, 2-UNIT - SL-V		
3	R4032312	3	· NIPPLE, PIPE - 3/8", HEX		
4	R4038895	1	· TEE, #8 MJ X 3/8" MP X #8 MJ		
5	R4002439	3	· ELBOW, 3/8" MP X 90 deg. X #8 MJ		
6	R4037689	4	· ELBOW, 1/8" MP X 90 deg. X #1/8" MP		
7	R0979138	24	· ELBOW, 1/8" MP X 90 deg. X #4 MJ - SWIVEL		
8	R0088402	2	· PLUG, PIPE - 3/8", HEX CSK.		
9	R4078933	2	· ELBOW, 1/8" MP X 90 deg. X #4 MJ X 1-3/16"		
10	R4016785	8	· ADAPTER, 1/4" MP X #4 MJ		
11	R4018666	2	· ADAPTER, 1/2" MP X #8 MJ		
12	R4016701	1	· ELBOW, #8 MJ X 90 deg. X #8 MJ - BULKHEAD		
13	R0978632	10	· ADAPTER, 1/8" MP X #4 MJ		
14	R6953864	2	· ELBOW, 3/8" MP X 90 deg. X #4 MJ		
15	R4171482	2	· ELBOW, 3/8" MP X 45 deg. X #4 MJ		
16	N.P.N.		· NOT USED		
17	R4086112	20	· CLAMP, CABLE - INSULATED, 5/8"		
18	R0989003	3	· CLAMP, CABLE - INSULATED, 3/4"		
19	R0986144	23	· CLAMP, CABLE - INSULATED, 1-1/4"		
20	R0986145	1	· CLAMP, CABLE - INSULATED, 1-1/2"		
21	R4010923	47	· FLATWASHER, 1/4"		
22	N.P.N.		· NOT USED		9/15/20
23	R0812278	47	· BOLT, 1/4"-20 X 5/8"		
24	R0808221	6	· FLATWASHER, 3/8"		9/15/20
25	R0829683	6	· BOLT, 3/8"-16 X 5/8"		
			DRAWING, LIFTARM AUTO LUBE HARDWARE GROUP (R427474503)		9/15/20

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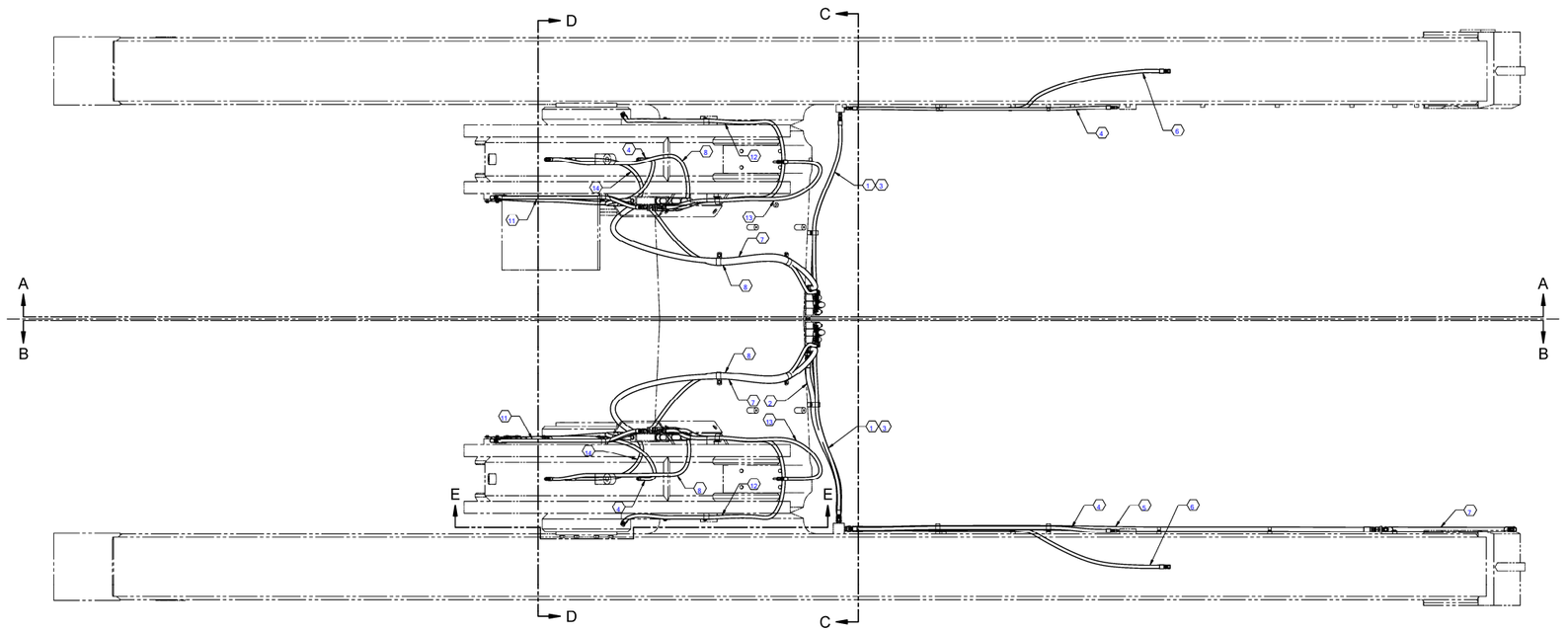
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

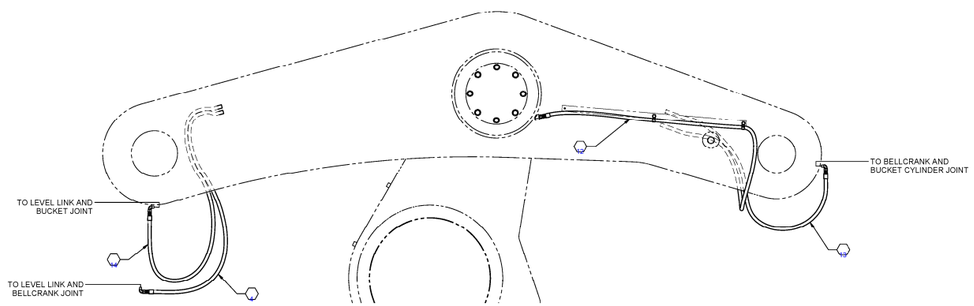
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LIFTARM AUTO LUBE HOSE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	02	UPDATE DESCRIPTION OF ITEM 5	1360454	3-15-18	TEW	JBD	JBD
	03	ADD AR WRAP TO ALL HOSES	1405530	2020-02-24	RAH	BBD	JBD





SECTION E-E
ROTATED 88° CW
TYP OUTER SIDE OF BOTH BELLCRANKS

ITEM	PART NO	QTY	DESCRIPTION
14	4301604	2	HOSE 4000 4 58.0 0J 0J AR
13	4296251	2	HOSE 4000 4 48.0 0J 0J AR
12	4301597	2	HOSE 4000 4 84.0 0J 0J AR
11	4301612	2	HOSE 4000 4 81.0 0J 0J AR
10	4292500	2	HOSE 4000 4 80.0 0J 0J AR
9	4301611	2	HOSE 4000 4 21.0 0J 0J AR
8	4296446	2	HOSE 4000 4 120.0 0J 0J AR
7	4301610	3	HOSE 4000 8 78.0 0J 0J AR
6	4301609	2	HOSE 4000 4 78.0 0J 0J AR
5	4301608	1	HOSE 4000 8 96.0 0J 0J AR
4	4301607	4	HOSE 4000 4 52.0 0J 0J AR
3	4292496	2	HOSE 4000 4 40.0 0J 0J AR
2	4301596	1	HOSE 4000 8 33.0 0J 0J AR
1	4301595	1	HOSE 4000 4 37.0 0J 0J AR

REF 427-4745 GP HDW AUTOLUBE LA L13G2 HL **FOR INJECTOR AND HARDWARE INSTALLATION**

REF 426-7515 REF AUTO LUBE L1350 G2 **FOR SCHEMATIC**

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1606.00

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGULAR ±1°; FRACTIONS ±1/16; XX DECIMAL ±.03; XXX DECIMAL ±.015
- MACHINED CORNERS: 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FINISH DECO DWG/CONTRACT NO: 427-1186

DWN	rhyatt	11-15-11
CHK	WLD	11-15-11
ENGR	WLD	11-15-11
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HOSES AUTOLUBE LA L13G2 HL

SIZE: E | DO NOT SCALE | DWG NO: 4274744 | REV: 03

SCALE: 1/8 | WT: 144.9 lbm | SHEET: 1 OF 3

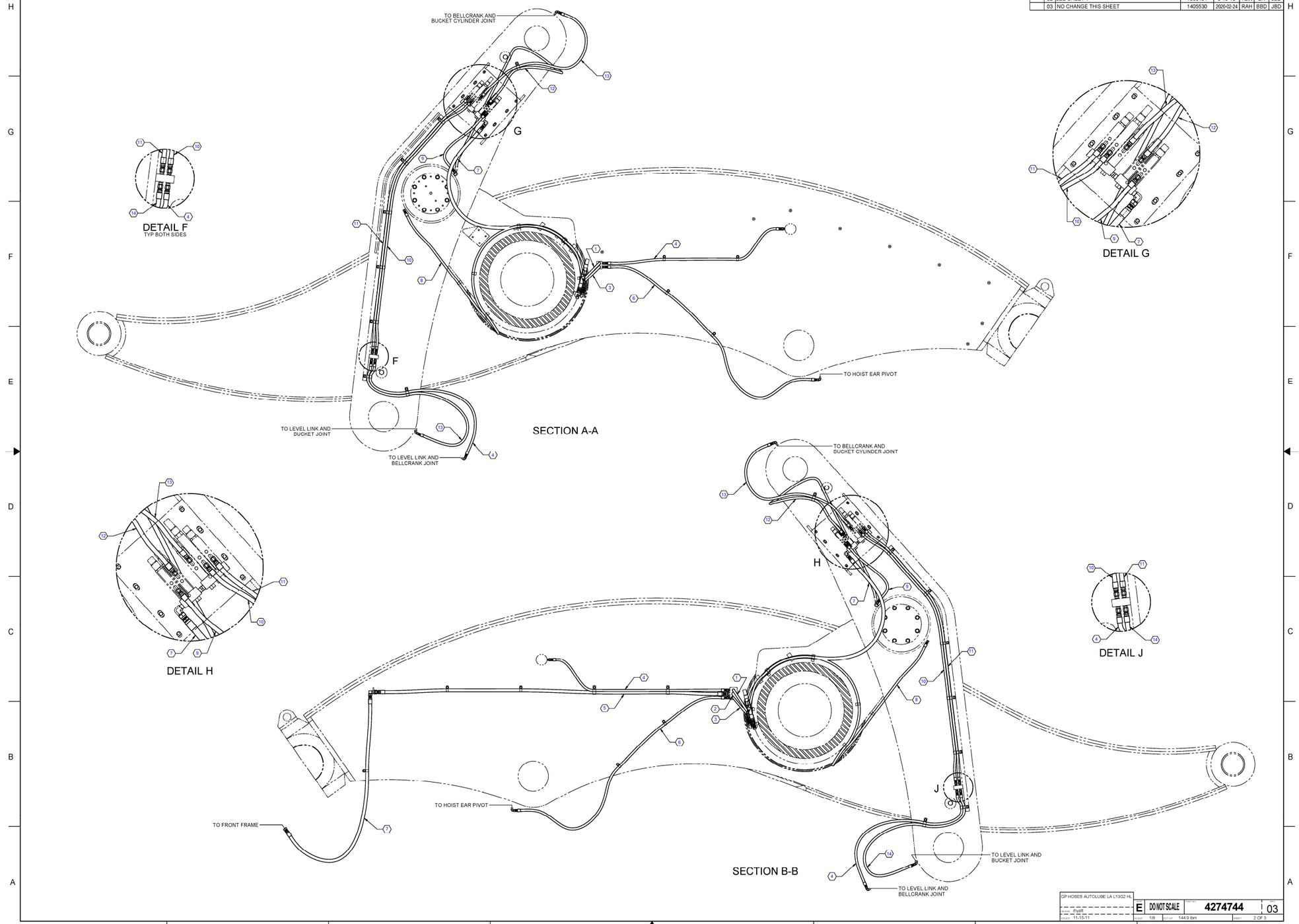
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LIFTARM AUTO LUBE HOSE GROUP

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LIFTARM AUTO LUBE HOSE GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	DIR	APP
	02	SEE SHEET 1	1360454	3-15-18	TEW	ER	JBD
	03	NO CHANGE THIS SHEET	1405530	2020-02-24	RAH	BBD	JBD



GP HOSES AUTOLUBE LA L13G2 HL					
DRAWN: rhall 11-15-11	E	DO NOT SCALE	4274744	REV 03	
	SCALE 1/8	WEIGHT 144.9 lbm	SHEET 2 OF 3		

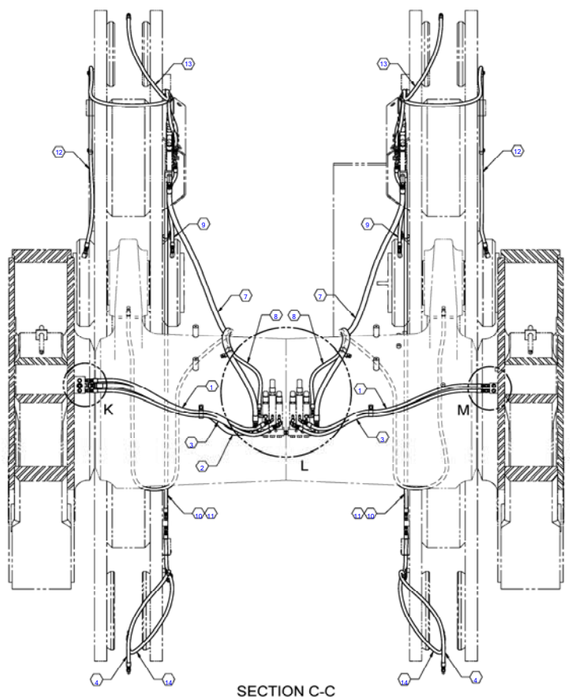
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LIFTARM AUTO LUBE HOSE GROUP

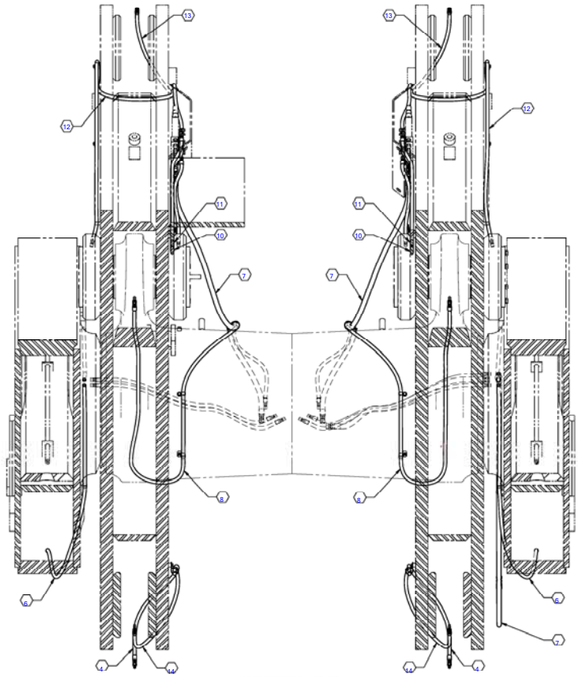
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LIFTARM AUTO LUBE HOSE GROUP

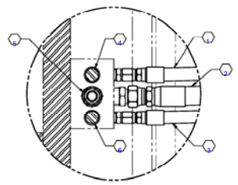
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	02	SEE SHEET 1	1360454	3-15-18	TEW	ER	JBD
	03	DEL VIEW N-N	1405530	2020-02-24	RAH	BBD	JBD



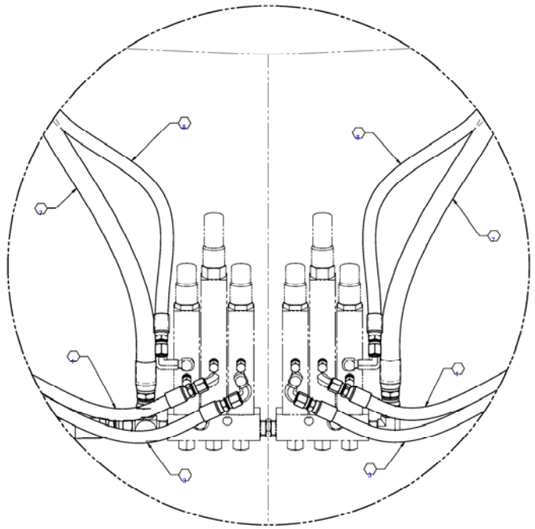
SECTION C-C



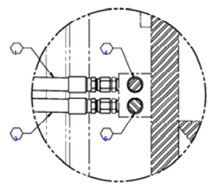
SECTION D-D



DETAIL K
1:2
FTGS TYP BOTH SIDES OF GREASE BLOCK



DETAIL L
1:2



DETAIL M
1:2
TYP BOTH SIDES OF GREASE BLOCK

GP HOSES AUTOLUBE LA L13G2 HL
E DO NOT SCALE 4274744 03
11-15-11 1/8 144.0 mm 3 OF 3

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LIFTARM AUTO LUBE HOSE GROUP

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LIFTARM AUTO LUBE HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274744		LIFTARM AUTO LUBE HOSE GROUP		9/15/20
1	R4301595	2	· HOSE ASSEMBLY, #4 X 37" - AR		9/15/20
2	R4301596	1	· HOSE ASSEMBLY, #8 X 33" - AR		9/15/20
3	R4292496	2	· HOSE ASSEMBLY, #4 X 40" - AR		9/15/20
4	R4301607	4	· HOSE ASSEMBLY, #4 X 52" - AR		9/15/20
5	R4301608	1	· HOSE ASSEMBLY, #8 X 96" - AR		9/15/20
6	R4301609	2	· HOSE ASSEMBLY, #4 X 78" - AR		9/15/20
7	R4301610	3	· HOSE ASSEMBLY, #8 X 78" - AR		9/15/20
8	R4296446	2	· HOSE ASSEMBLY, #4 X 120" - AR		9/15/20
9	R4301611	2	· HOSE ASSEMBLY, #4 X 21" - AR		9/15/20
10	R4292500	2	· HOSE ASSEMBLY, #4 X 80" - AR		9/15/20
11	R4301612	2	· HOSE ASSEMBLY, #4 X 81" - AR		9/15/20
12	R4291597	2	· HOSE ASSEMBLY, #4 X 84" - AR		9/15/20
13	R4296251	2	· HOSE ASSEMBLY, #4 X 48" - AR		9/15/20
14	R4301604	2	· HOSE ASSEMBLY, #4 X 58" - AR		9/15/20
			DRAWING, LIFTARM AUTO LUBE HOSE GROUP (R427474403)		9/15/20

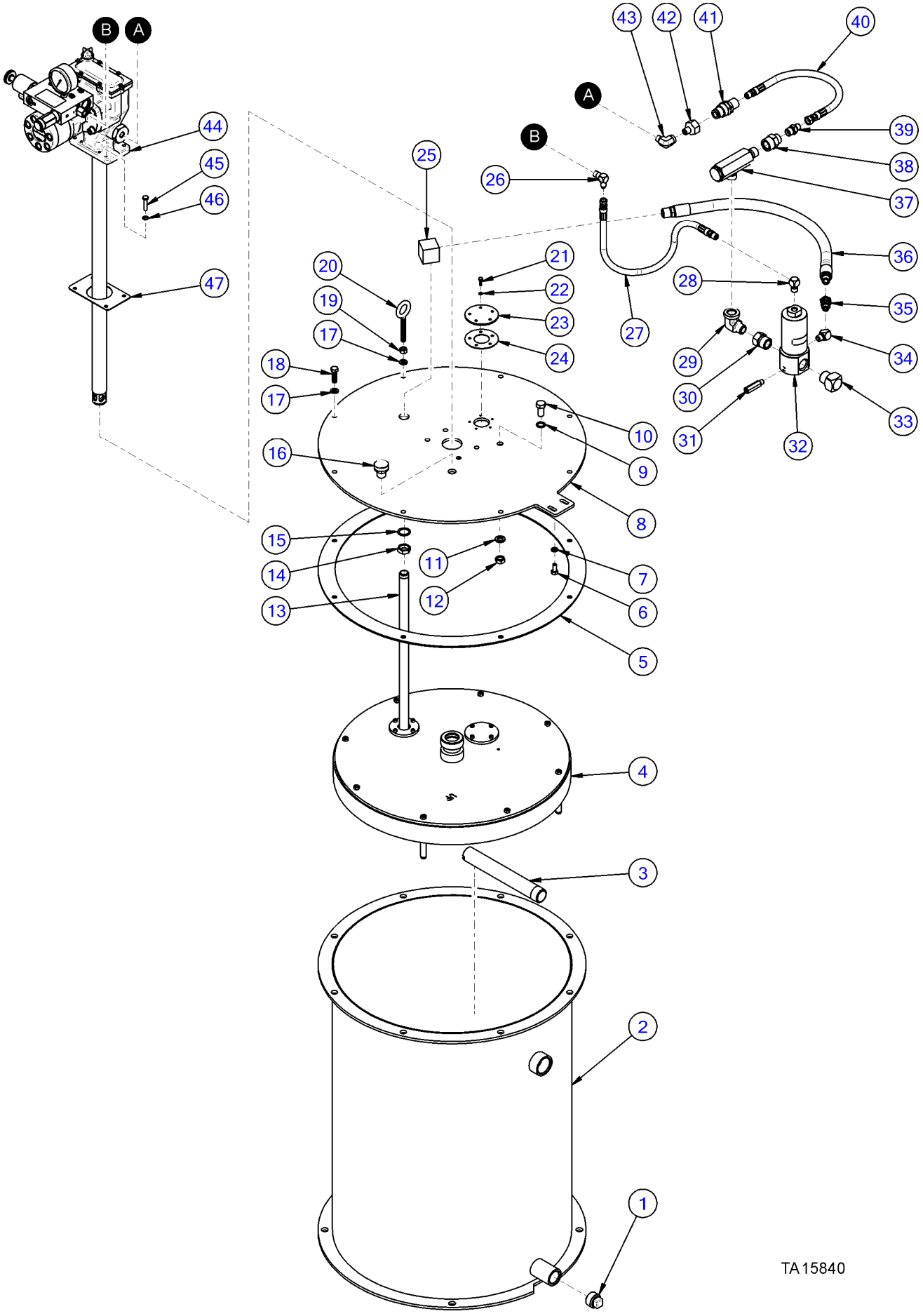
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AUTO LUBE GREASE RESERVOIR AND PUMP ASSEMBLY



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AUTO LUBE GREASE RESERVOIR AND PUMP ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4279092		AUTO LUBE GREASE RESERVOIR AND PUMP ASSEMBLY		8/18/14
1	R4223340	1	· PLUG, PIPE - 1", HEX HD.		
2	R4275749	1	· CONTAINER ASSEMBLY		
3	R4275750	1	· TUBE, EXTENSION		
4	R4275756	1	· FOLLOWER ASSEMBLY		
5	R4275748	1	· GASKET		
6	R0988144	2	· BOLT, 5/16"-18 X 3/4"		
7	R0264174	2	· LOCKWASHER, 5/16"		
8	R4279095	1	· COVER, DRUM		
9	R4275742	2	· GASKET		
10	R0836043	1	· BOLT, 1/2"-13 X 1"		
11	R0801181	1	· LOCKWASHER, 1/2"		
12	R4012946	1	· JAMNUT, 1/2"-20		
13	R4275755	1	· TUBE, VENT		
14	R4275753	1	· NUT		
15	R4275752	1	· GASKET		
16	R4275745	1	· FITTING, VENT		
17	R0753123	8	· LOCKWASHER, 3/8"		
18	R0808476	6	· BOLT, 3/8"-16 X 1-1/4"		
19	R0812921	2	· NUT, 3/8"-16		
20	R4279097	2	· BOLT, EYE - 3/8-16 X 2-12"		
21	R4012424	5	· BOLT, #10-27 X 5/8"		
22	R4010907	5	· LOCKWASHER, #10		
23	N.P.N.	1	· COVER		
24	R4278341	1	· GASKET		
25	R4275751	1	· ELBOW, VENT		
26	R4275743	1	· ELBOW		
27	R4275744	1	· HOSE		
28	R4275746	1	· ELBOW		
29	R4279102	1	· ELBOW		
30	R4275737	1	· ADAPTER		
31	R4163567	1	· VALVE, PRESSURE RELIEF - 5000 PSI		8/18/14
32	R4244902	1	· VALVE ASSEMBLY, VENT		
	R4278349	1	· · CYLINDER		
	R4278350	1	· · PISTON		
	R4278351	1	· · NEEDLE		
	R4278352	1	· · PACKING ASSEMBLY, VITON		
	R4278353	1	· · SEAT, VALVE		
	R4278354	1	· · GASKET, CHECK SEAT		
	R4278355	1	· · VALVE BODY		
33	R4275738	1	· ELBOW		
34	R4275739	1	· ELBOW, 45 deg.		
35	R4279098	1	· REDUCER		
36	R4275740	1	· HOSE, VENT		
37	R4222441	1	· FILTER		
	R4267468	1	· · ELEMENT, FILTER		
	R4267469	1	· · GASKET		
38	R4275736	1	· REDUCER		
39	R4275734	1	· REDUCER NIPPLE		
40	R4279096	1	· HOSE		
41	R4275732	1	· VALVE, CHECK - OUTLET		
	R4275742	1	· · GASKET		
	R4278343	1	· · BUSHING, CHECK VALVE		
	R4278344	1	· · DISC ASSSEMBLY, CHECK VALVE		
	R4278345	1	· · SEAT, CHECK BALL		
	R4278346	1	· · GASKET		
	R4278347	1	· · BALL, STEEL - 3/8"		
	R4278348	1	· · CONNECTOR, OUTLET		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
42	R4275731	1	· ADAPTER		
43	R4279101	1	· ELBOW		
44	R4279093	1	· PUMP ASSEMBLY		
	R4270973	1	· · VALVE, FLOW CONTROL - 1.5 GPM		
	R4270974	1	· · VALVE, PRESSURE REDUCING - 325 PSI		
	R4270996	1	· · SEAL KIT, SOLENOID VALVE CARTRIDGE - NITRILE		
	R4270999	1	· · CARTRIDGE, VALVE - SOLENOID		
	R4279099	1	· · COIL, VALVE - SOLENOID		
	R4279100	1	· · SOFT PARTS KIT		
	R4271004	1	· · SEAL KIT, FLOW CONTROL VALVE - NITRILE		
	R4255099	1	· · CRANK, ECCENTRIC		
	R4255100	1	· · BEARING, BALL		
	R4255101	1	· · PIN, OUTLET		
	R4255109	1	· · GAUGE, PRESSURE		
	R4255115	1	· · PLUG, SHOVEL		
	R4255116	1	· · RING, RETAINING		
	R4255118	1	· · ORIFICE FITTING		
	R4255119	1	· · GASKET		
	R4255120	1	· · STRAINER, INLET		
	R4271005	1	· · UPPER BUSHING AND PLUNGER KIT		
	R4271006	1	· · PIVOT PIN AND ANCHOR KIT		
	R4271007	1	· · LOWER BUSHING AND PLUNGER KIT		
45	R4009612	4	· BOLT, 1/4"-20 X 1-1/4"		
46	R0213584	4	· LOCKWASHER, 1/4"		
47	R4279094	1	· GASKET		
		REF	DRAWING, GREASE RESERVOIR AND PUMP ASSEMBLY (R427909200)		

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4236837			STANDARD CLIMATE FLUIDS GROUP		9/17/14
1	R4119571	6	GL	· OIL, GEAR - SCHAEFFER, #167 - 55 GALLON DRUM		
2	R4123226	500	GL	· OIL, HYDRAULIC - MOBIL #424		
3	R4224613	160	GL	· LUBE, MOBILEGEAR SCH 460		
4	R4239357	100	GL	· ANTIFREEZE, PERMANENT		4/5/11
5	R4239360	58	GL	· OIL, ENGINE - DELVAC 1300 SUPER		4/5/11
6	R4271107	120	GL	· GREASE, ARCTIC MOLY - 55 GL DRUM		4/5/11

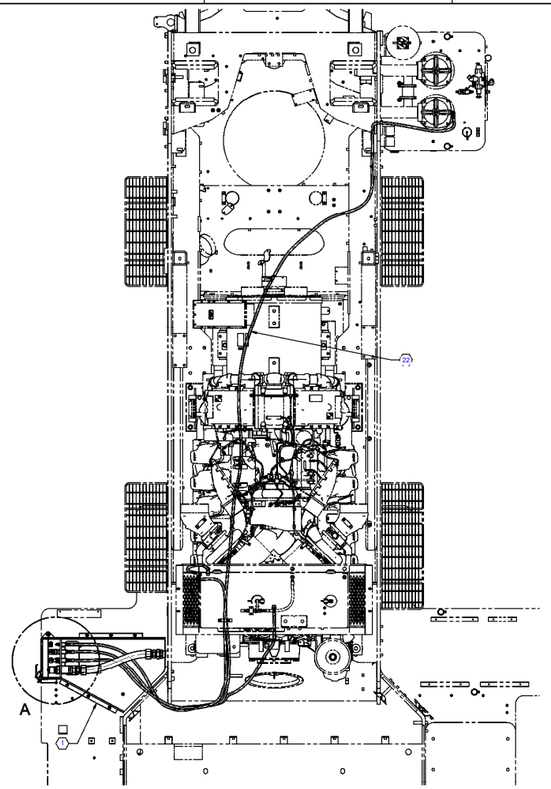
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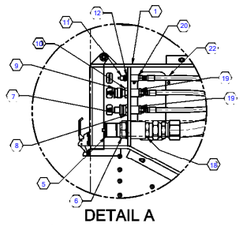
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

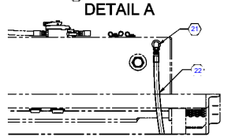
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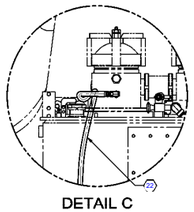
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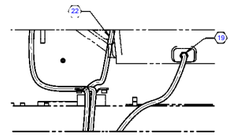
CENTRAL SERVICE GROUP

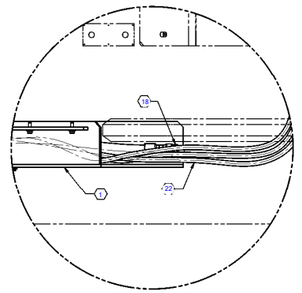


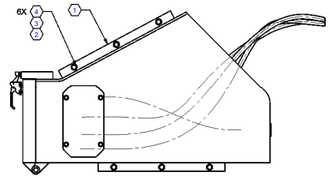


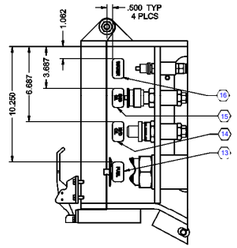


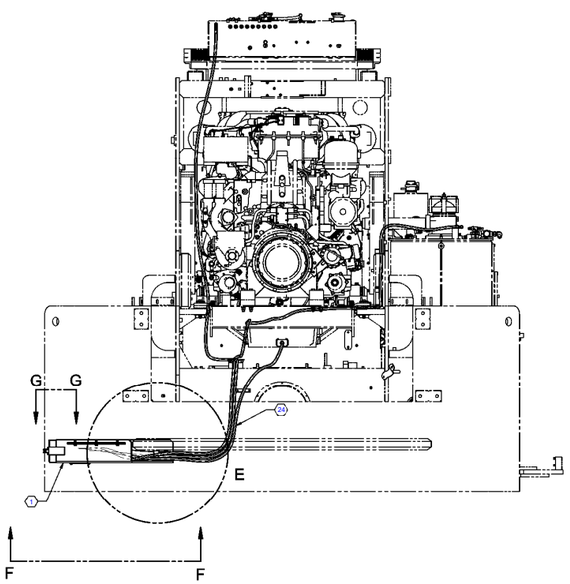




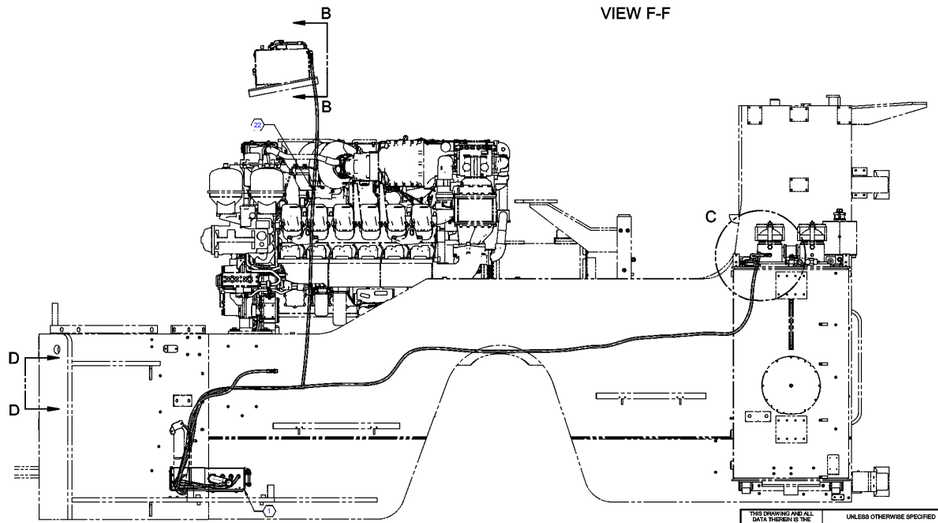








VIEW F-F



* NOT SHOWN

ITEM	PART NO.	QTY	DESCRIPTION
22	4291799	1	KIT HOSE CENTRAL SRV L1250 MTU
21	4020757	1	FTG HYD 90 8 MJ 8 MP
20	4018866	1	FTG HYD O 8 MJ 8 MP JUMP
19	4040558	3	FTG HYD O 8 MJ 12 MP JUMP
18	9402716	2	FTG HYD O 32 MJ 32 MP
17*	4103739	AR	SEALANT, HYD, LOCTITE #569-31
16	4161198	1	LABEL WATER
15	4161197	1	LABEL ENG OIL
14	4161196	1	LABEL HYD OIL
13	4161195	1	LABEL FUEL
12	4065071	1	WATER CONNECTOR WSI/EC285A8
11	4122808	1	CAP WATER CONNECTOR
10	4065069	1	ENGINE OIL CONNECTOR WSI/80N2
9	4122807	1	CAP ENGINE OIL CONNECTOR*
8	4065070	1	HYD OIL CONN WSI/8005A12
7	4122806	1	CAP HYDRAULIC CONNECTOR
6	4060262	1	FILL NIPPLE
5	4060261	1	CAP ASSY FUEL CONNECTOR
4	4009753	6	BOLT HX .500 1.500 NC G8
3	0801181	6	WASHER LOCK SPR .500 .873 .125
2	0810991	6	WASHER FLAT .531 1.062 .121
1	4264941	1	ASM WIGGINS SERV BOX

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 9000.00.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS
- TOLERANCES ON: ANGLES ±1° FRACTIONS ±1/16 .XX DECIMAL ±.03 .XXX DECIMAL ±.015
- MACHINED CORNERS 1/64 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL
- ALL UNSPECIFIED FINISHES ON MACHINED SURFACES SHALL BE 125 Ra OR BETTER

FIRST USED ON/CONTRACT NO: L1250

DWN	khardy	07-28-2017
CHK	TMW	07-28-2017
ENGR	TMW	07-28-2017
PROD ENGR		
PROJ APPROVAL		
MATL		

KOMATSU

GP WIGGINS CNTRL SVC L1250 MTU

SIZE E | DO NOT SCALE | DWG NO. 4287503 | REV 00

SCALE 1:16 | WT 274.7 lbm | SHEET 1 OF 1

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CENTRAL SERVICE GROUP

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4287503		CENTRAL SERVICE GROUP		
1	R4264341	1	· BOX STRUCTURE, SERVICE		
	R4031162	1	· · LATCH ASSEMBLY		
2	R0810991	6	· FLATWASHER, 1/2" X 1" X 1/8"		
3	R0801181	6	· LOCKWASHER, 1/2"		
4	R4009753	6	· BOLT, 1/2"-13 X 1-1/2"		
5	R4060261	1	· CAP, WIGGINS ZC20		
6	R4060262	1	· NIPPLE, FILL		
7	R4122806	1	· CAP, HYDRAULIC		
8	R4065070	1	· CONNECTOR, HYDRAULIC OIL		
9	R4122807	1	· CAP, ENGINE OIL		
10	R4065069	1	· CONNECTOR, ENGINE OIL		
11	R4122808	1	· CAP, WATER		
12	R4065071	1	· CONNECTOR, WATER		
13	R4161195	1	· LABEL, FUEL		
14	R4161196	1	· LABEL, HYDRAULIC OIL		
15	R4161197	1	· LABEL, ENGINE OIL		
16	R4161198	1	· LABEL, WATER		
17	R4103739	AR	· SEALANT, HYDRAULIC - LOCTITE #569-31		
18	R9402716	2	· ADAPTER, 2" MP X #32 MJ		
19	R4040558	3	· ADAPTER, 3/4" MP X #8 MJ		
20	R4018666	1	· ADAPTER, 1/2" MP X #8 MJ		
21	R4020757	1	· ELBOW, 1/2" MP X 90 deg. X #8 MJ		
22	R4291799	1	· HOSE KIT, CENTRAL SERVICE		
	R4286831	1	· · HOSE ASSEMBLY, #8 X 258" - MDG		
	R4286832	1	· · HOSE ASSEMBLY, #8 X 138" - MDG		
	R4286833	1	· · HOSE ASSEMBLY, #8 X 344" - MDG		
	R4291800	1	· · HOSE ASSEMBLY, #32 X 31-1/2" - MDG		
			DRAWING, CENTRAL SERVICE GROUP (428750300)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR BLOW GUN GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4163946		AIR BLOW GUN GROUP (-0)		5/4/09
1	R4175957	1	· AIR BLOW GUN		1/24/95
2	R4131743	1	· HOSE ASSEMBLY, #4 X 64"		8/14/96
3	R6946165	1	· TEE, #4 MJ X 1/4" MP X #4 MJ		8/14/96
4	R4020763	1	· ELBOW, #4 MJ X 90 deg. X #4 MJ - BULKHEAD		5/4/09
5	R4073656	1	· HOSE ASSEMBLY, #4 X 90"		5/4/09

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4133196		FIRE EXTINGUISHER		6/8/11
1	R4133196	1	· FIRE EXTINGUISHER, 21 LB. - ABC DRY		
2	R4251774	REF	MOUNT BRACKET, FIRE EXTINGUISHER	1	6/8/11

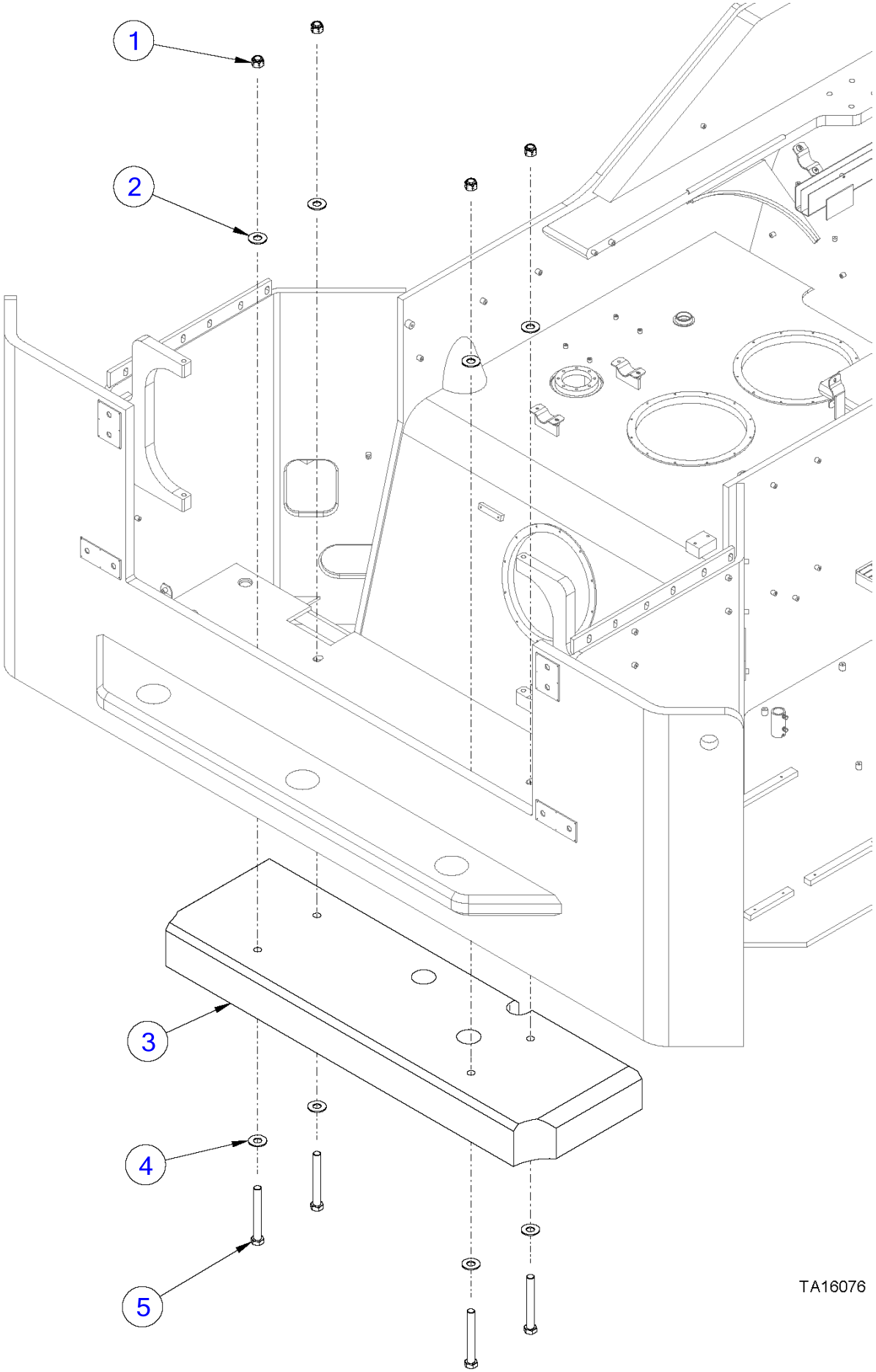
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COUNTERWEIGHT KIT



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4182980		COUNTERWEIGHT KIT		1/30/20
1	R4016020	4	· LOCKNUT, 1-1/4"-7 - NYLON		
2	R0021554	4	· FLATWASHER, 1-3/8" I.D. X 3" O.D. X 3/16"		3/18/16
3	R4182851	1	· COUNTERWEIGHT, 5,000 LB - 26" X 86" X 8"		
4	R9424151	4	· FLATWASHER, 1-3/8" I.D. X 2-1/2" O.D. X 1/8"		
5	R4188637	4	· BOLT, 1-1/4"-7 X 10"		1/30/20
			DRAWING, COUNTERWEIGHT KIT (R418298002)		1/30/20

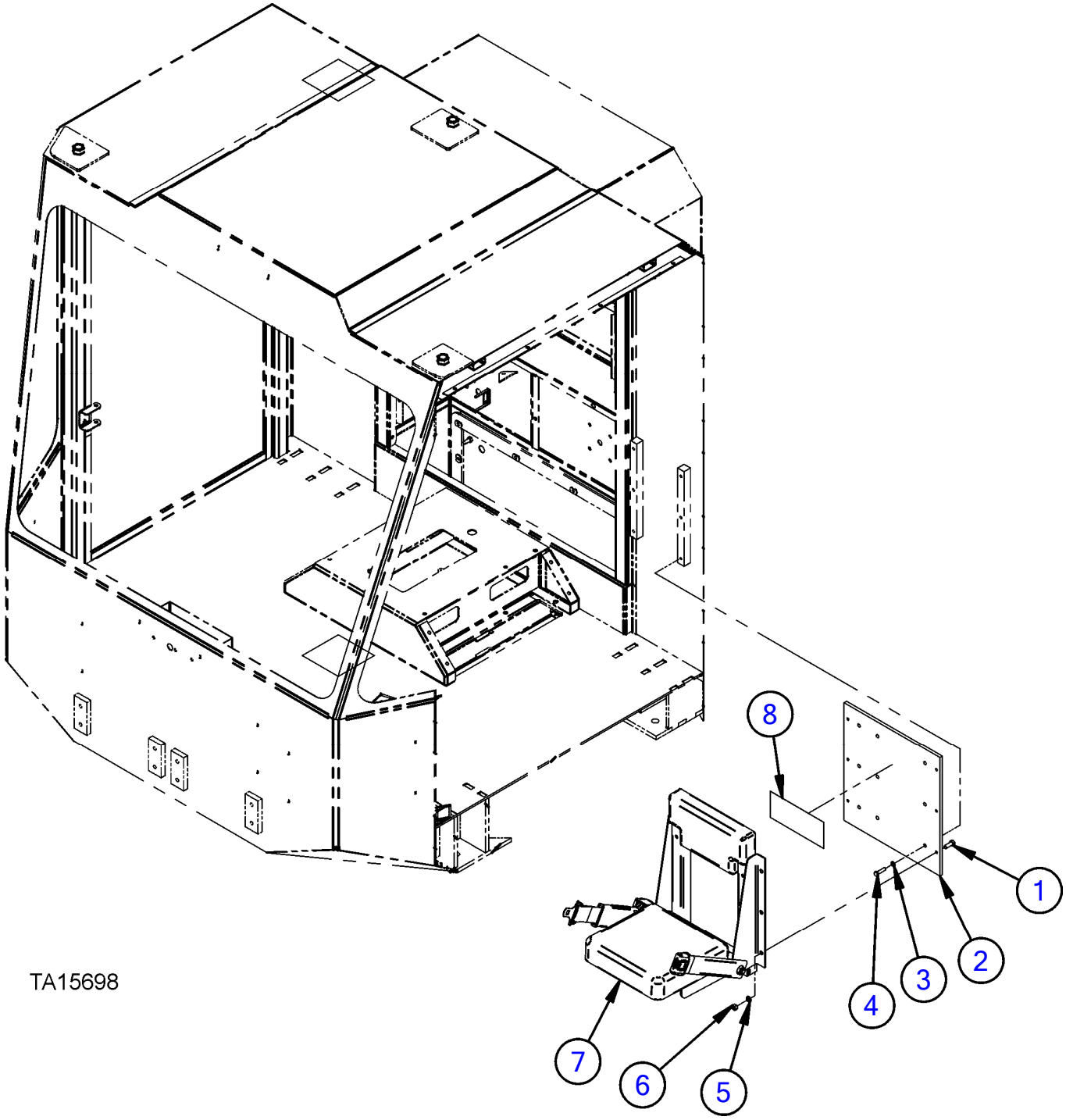
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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TRAINING SEAT



TA15698

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TRAINING SEAT

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TRAINING SEAT

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4268395	1	TRAINING SEAT ASSEMBLY AND MOUNT		12/3/12
1	N.P.N.		· BOLT		
2	R4270220	1	· MOUNT, TRAINING SEAT		
3	R0824753	6	· BOLT, 5/16"-18 X 1-1/4"		
4	R0264174	6	· LOCKWASHER, 5/16"		
5	R0753123	6	· LOCKWASHER, 3/8"		
6	R0812921	6	· NUT, 3/8"-16		
7	R4260989	1	· SEAT, TRAINING		
	R4259305	1	· · BACK ASSEMBLY, SEAT		12/3/12
	R4259306	1	· · CUSHION ASSEMBLY, SEAT		12/3/12
	R4259307	1	· · SPRING BRACKET, SEAT		12/3/12
	R4259308	1	· · SEAT BELT, 2" RETRACTABLE		12/3/12
	R4259309	1	· · TORSION SPRING, SEAT		12/3/12
8	R4264114	1	· LABEL, WARNING - TRAINING SEAT		
		REF	DRAWING, TRAINING SEAT ASSEMBLY (R426839500)		12/3/12

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