KOMATSU

Parts Manual

L-1850-2210

Introduction

1 Structural Components

2 Power Unit Components

3 Generator

4 Instrument Panel Components

5 Electric Control Components

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7 Driver Assembly

8 Hydraulic and Air Operated Components

9 Miscellaneous

L-1850-2210 PARTS MANUAL
INTRODUCTION

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.

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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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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-1850-2210 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 GROUP
REAR AXLE GROUP
LADDER AND CATWALK GROUP
LADDER ASSEMBLY
CATWALK ANTISLIP GROUP - FRONT FRAME
CATWALK ANTISLIP GROUP - REAR FRAME
OPERATOR SEAT AND CONTROLS
CAB ASSEMBLY
WHEEL ASSEMBLY
BUCKET AND TEETH ASSEMBLY
MIRROR/LIGHT BAR ASSEMBLY
MIRROR ASSEMBLY AND MOUNTING GROUP
IDENTIFICATION AND SAFETY LABELS GROUP
PAINT GROUP
OPERATORS SEAT ASSEMBLY

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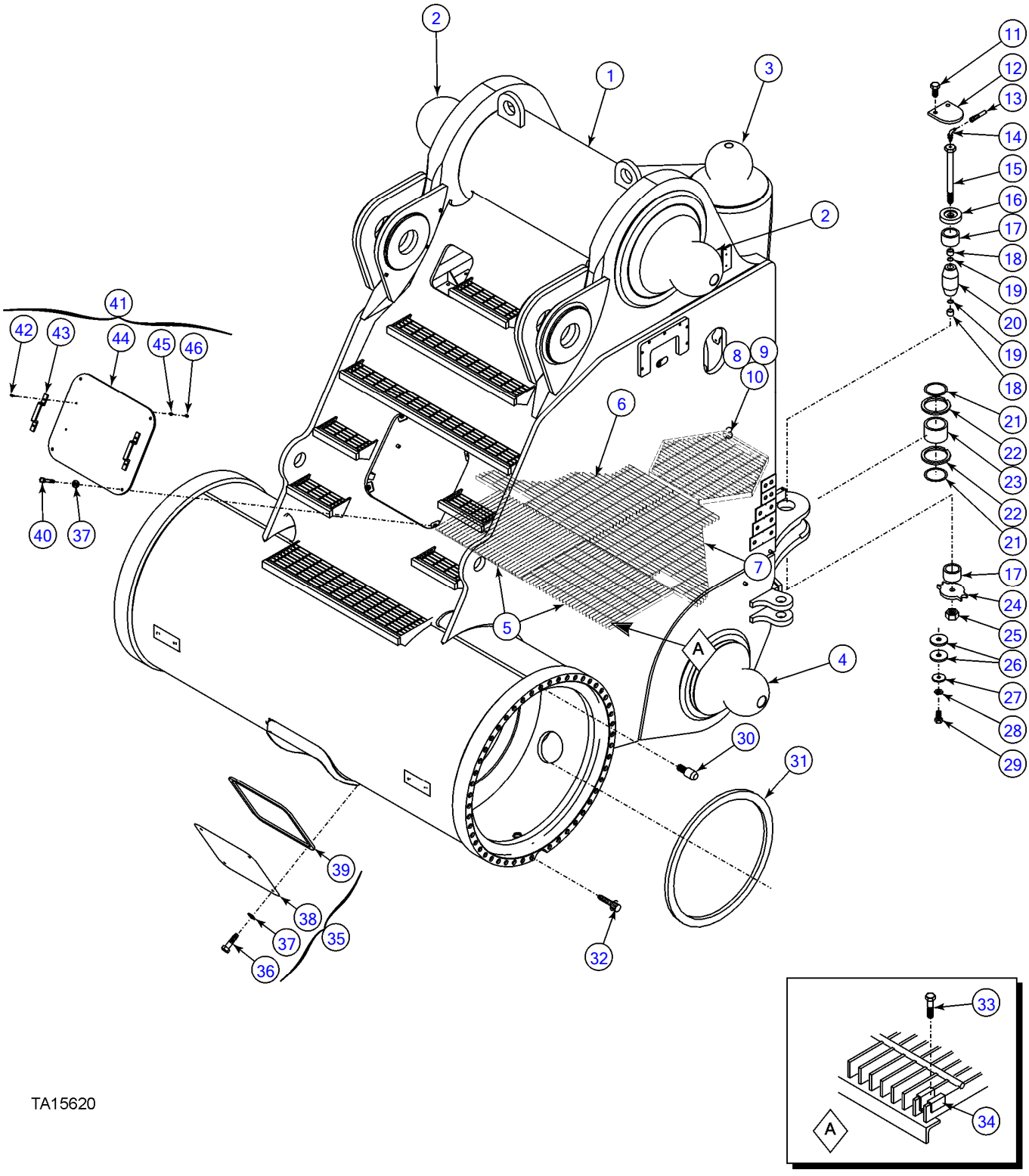
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FRONT FRAME AND AXLE GROUP



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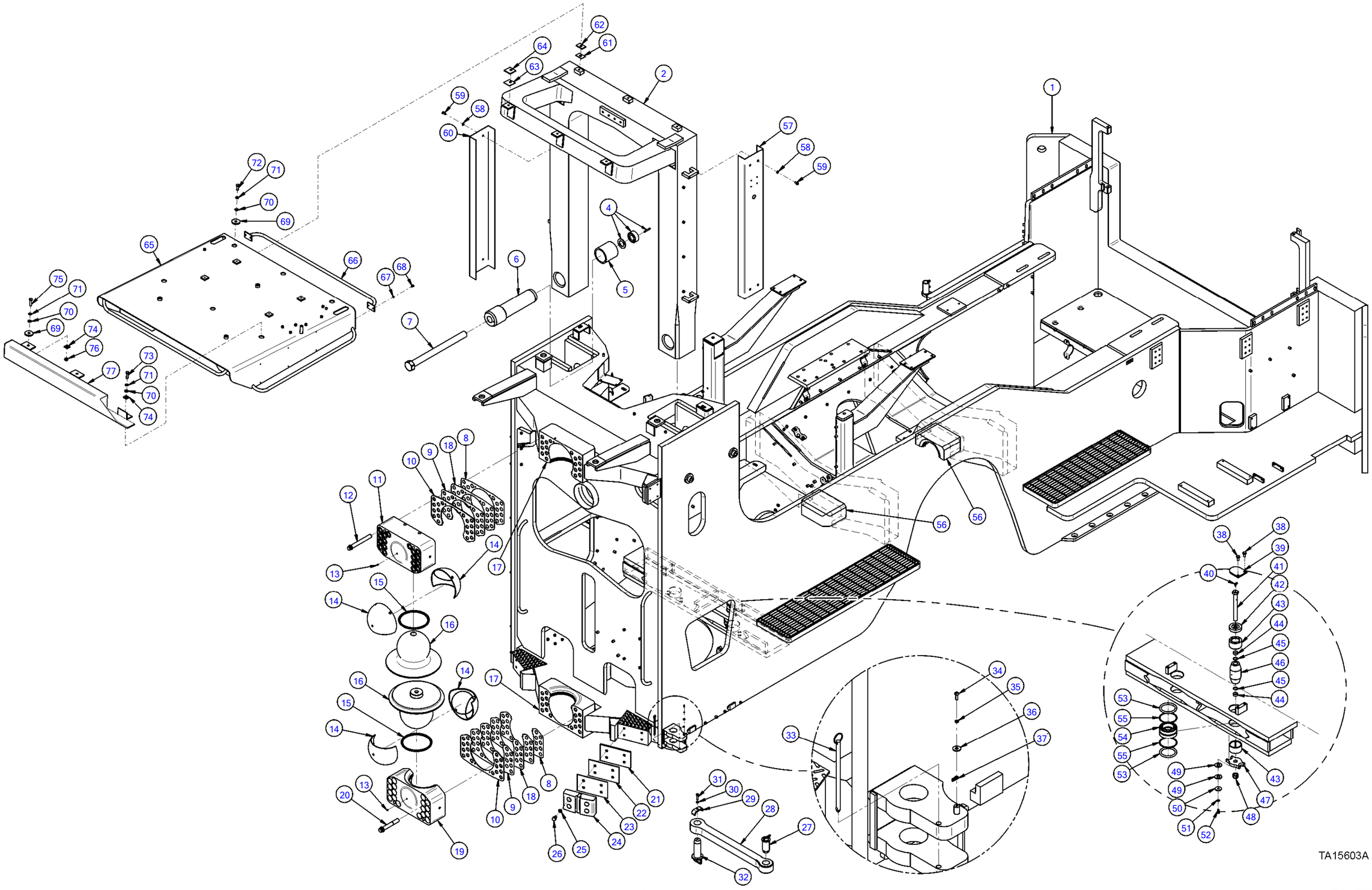
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4269781		FRONT FRAME AND AXLE GROUP		10/26/16
1	R4269645	1	· FRAME STRUCTURE, FRONT		
	N.P.N.	REF	· · PLUG ASSEMBLY, 3" - LIFTARM PIVOT AND HOIST CYLINDER PIVOT BALL		
	N.P.N.	REF	· · FRONT FRAME PIVOT BALLS DO NOT HAVE PLUGS		
2	R4282561	2	· · BALL AND BASE, LIFTARM PIVOT - 14", WELDED ON		2/4/15
3	R4247949	2	· · BALL AND BASE, STEERING PIVOT - 12", WELDED ON		
4	R4168403	2	· · BALL AND BASE, HOIST CYLINDER PIVOT - 12", WELDED ON (SEE NOTE)		
5	R4261270	2	· GRATING STRUCTURE, FRONT		
6	R4247511	1	· GRATING STRUCTURE, R.H. REAR		
7	R4247510	1	· GRATING STRUCTURE, L.H. REAR		
8	R4264446	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		
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	R4271232	2	· PIN, 4" X 8"		11/5/13
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	R4253537	2	· DOWEL PIN, 1-1/4"-7 - DRIVER TO AXLE HOUSING		
31	R4269651	2	· SEAL, AXLE TO MOTOR		
32	R4233222	REF	· CAPSCREW, 1-1/4"-7 X 6"	96	
33	R4228426	24	· SCREW, 1/4"-20 X 2"		
34	R4218378	24	· 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	R4272418	1	· CATWALK STRUCTURE/LIGHT POLE MOUNT, FRONT - L.H.		
	R4272407	1	· CATWALK STRUCTURE/LIGHT POLE MOUNT, FRONT - R.H.		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274469	REF	CODE SHEET, FRONT AXLE		
			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



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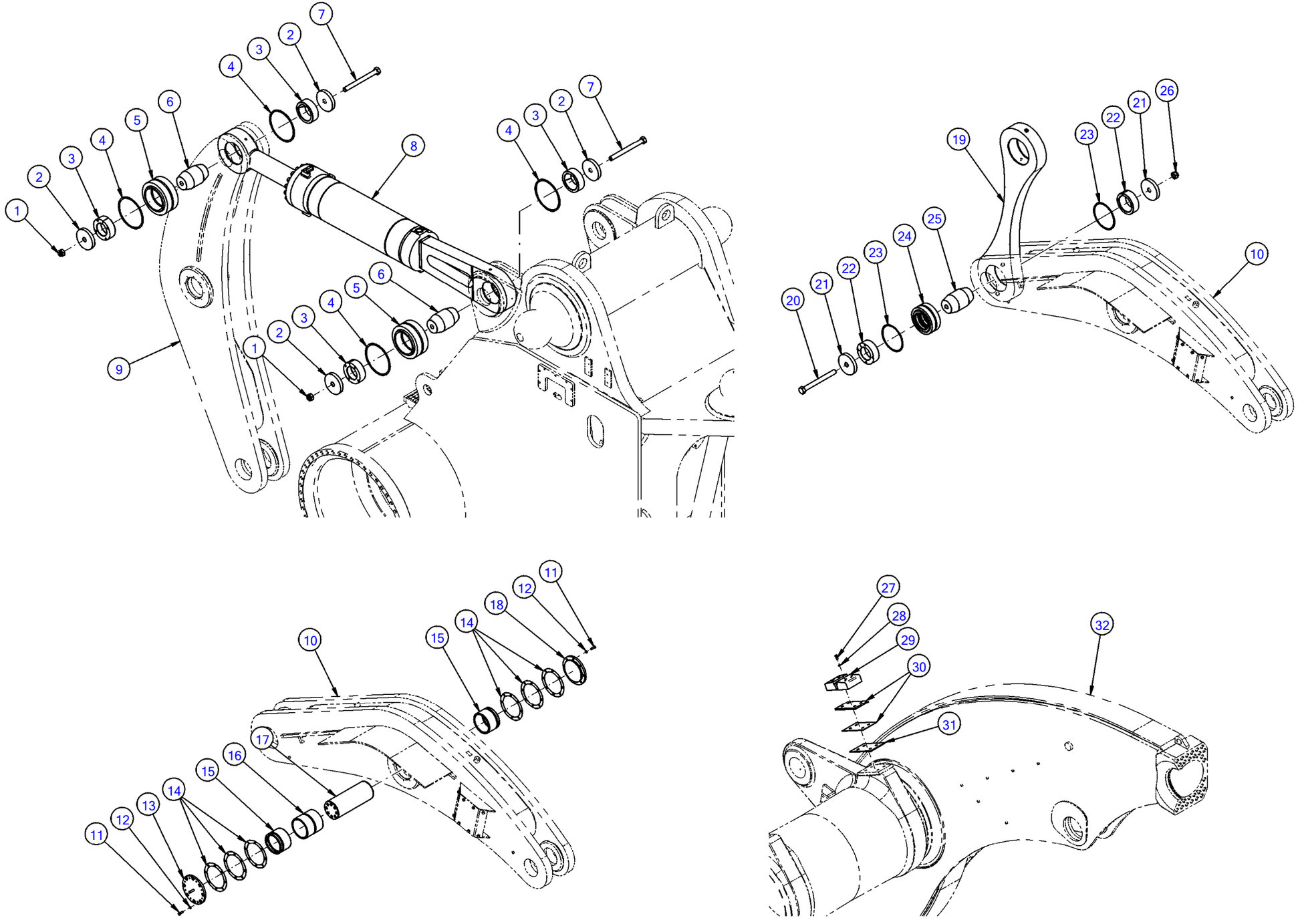
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4267059		REAR FRAME GROUP (-0)		7/11/16
1	R4262844	1	· FRAME STRUCTURE, REAR		
2	R4285588	1	· ROLL BAR STRUCTURE		7/11/16
3	R4233214	2	· PIN GROUP, ROLLBAR		
4	R4188899	2	· · NUT, TORQUE - 2-1/4"-4-1/4		
5	R4238090	2	· · PLATE STRUCTURE, CAPTURE		
6	R4188865	2	· · PIN, ROLL BAR		
7	R4188898	2	· · BOLT, 2-1/4"-4-1/4 X 27-3/8"		
8	R4123772	AR	· SHIM, .007"	4	5/14/12
9	R4133265	AR	· SHIM, .018"	2	
10	R4123773	AR	· SHIM, .030"	2	5/14/12
11	R4254334	1	· CAP, BALL - 12", 18 BOLT		
12	R4241671	18	· CAPSCREW, 1-1/4"-7 X 10"		
13	R0716331	2	· PLUG, PIPE - 1/8", HEX CSK.		
14	R4081645	4	· LINER, BALL - HALF, 12"		
15	R4261580	2	· SEAL, BALL - 12" - NITRILE		
16	R4247949	REF	· BALL AND BASE, STEERING PIVOT - 12", WELDED ON (SEE NOTE)	2	
17	R4247946	2	· SOCKET, BALL - 12", 18 BOLT (WELDED INTO REAR FRAME FOR STEERING BALLS) (SEE NOTE)		
18	R4133264	REF	· SPACER, 3/16"	2	
19	R4267033	1	· CAP, BALL - 12", 18 BOLT - COUNTERSUNK		
20	R4267007	18	· CAPSCREW, 1-1/4"-7 X 8"		
21	R4227535	AR	· SHIM, 1/2" X 7" X 12"	2	
22	R4168171	AR	· SHIM, 1/4" X 7" X 12"	2	
23	R4168170	AR	· SHIM, 1/8" X 7" X 12"	2	
24	R4246314	2	· STOP BLOCK		
25	R0021542	8	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
26	R4009522	8	· BOLT, 3/4"-10 X 1-1/4"		
27	R4035334	1	· PIN STRUCTURE, SAFETY LINK		7/24/14
28	R4240996	1	· SAFETY LINK		
29	R4075806	1	· RETAINER, PIN		
30	R0801181	1	· LOCKWASHER, 1/2"		
31	R0827222	1	· BOLT, 1/2"-13 X 2"		
32	R4035334	1	· PIN STRUCTURE, SAFETY LINK		
33	R4272818	1	· PIN, SELF LOCKING - 3/8" X 7"		
34	R4012632	1	· SCREW, #10-32 X 5/8" - P.H.		
35	R4010907	1	· LOCKWASHER, #10		
36	R0180161	1	· FLATWASHER, 1/4"		
37	R0453625	1	· CHAIN, #8 SASH		
38	R0027576	4	· BOLT, 5/8"-18 X 1-1/4"		
39	R4121124	2	· CAP, PIN LUG		
40	R0979138	REF	· ELBOW, 1/8" MP X 90 deg. X #4 MJ - SWIVEL	2	
41	R4182760	2	· BOLT, 1-1/4"-7 X 12"		
42	R4182716	2	· FLATWASHER, 1-1/4" I.D.		
43	R4161299	4	· BUSHING, SAWCUT		
44	R4182719	4	· SLEEVE, RETAINER - O-RING		
45	R4231149	4	· O-RING, 1" - POLYURETHANE		
46	R4271232	2	· PIN, 4" X 8"		
47	R4182717	2	· PLATE, CAPTURE		
48	R4016020	2	· LOCKNUT, 1-1/4"-7 - NYLON		
49	R0021553	8	· FLATWASHER, 1" I.D. X 2-1/2" O.D.		
50	R4102626	4	· FLATWASHER, 9/16" I.D. X 2-1/4" O.D. X 1/4"		
51	R0801181	4	· LOCKWASHER, 1/2"		
52	R0801180	4	· BOLT, 1/2"-13 X 1"		
53	R4161298	4	· O-RING, 5/8" X 5" I.D. - POLYURETHANE		
54	R6944893	REF	· BUSHING, SELF-ALIGNING - 4"	2	
55	R4093488	REF	· RING, RETAINING - INTERNAL	4	

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
56	R4119454	2	· SOCKET, BALL - 9", 8 BOLT (WELDED INTO REAR FRAME FOR REAR AXLE) (SEE NOTE)		
57	R4274042	1	· COVER STRUCTURE, ROPS - L.H.		3/14/14
58	R0021541	8	· LOCKWASHER, 5/8"		3/14/14
59	R0801180	8	· BOLT, 1/2"-13 X 1"		3/14/14
60	R4274044	1	· COVER STRUCTURE, ROPS - R.H.		3/14/14
61	R4217155	AR	· SHIM, 1/8" X 2" X 3" (BACK)		3/14/14
62	R4217156	AR	· SHIM, 1/4" X 2" X 3" (BACK)		3/14/14
63	R4217157	AR	· SHIM, 1/8" X 3" X 3" (FRONT)		3/14/14
64	R4217158	AR	· SHIM, 1/4" X 3" X 3" (FRONT)		3/14/14
65	R4254322	1	· FOPS ASSEMBLY		3/14/14
66	R4254321	1	· · HANDRAIL STRUCTURE, FOPS		3/14/14
67	R0753123	4	· · LOCKWASHER, 3/8"		3/14/14
68	R0810970	4	· · BOLT, 3/8"-16 X 3/4"		3/14/14
69	R0711602	6	· FLATWASHER, 3/4" I.D. X 3" O.D. X 1/4"		3/14/14
70	R4010925	7	· FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		3/14/14
71	R0021541	6	· LOCKWASHER, 5/8"		3/14/14
72	R0021629	3	· BOLT, 5/8"-11 X 1-3/4"		3/14/14
73	R0021631	3	· BOLT, 5/8"-11 X 2-1/4"		3/14/14
74	R4274661	3	· WASHER, SQUARE		3/14/14
75	R0021632	3	· BOLT, 5/8"-11 X 2-1/2"		3/14/14
76	R0537156	3	· LOCKNUT, 5/8"-11 - NYLON		3/14/14
77	R4274655	1	· MOUNT STRUCTURE, LIGHT BAR		3/14/14
			NOTE:		
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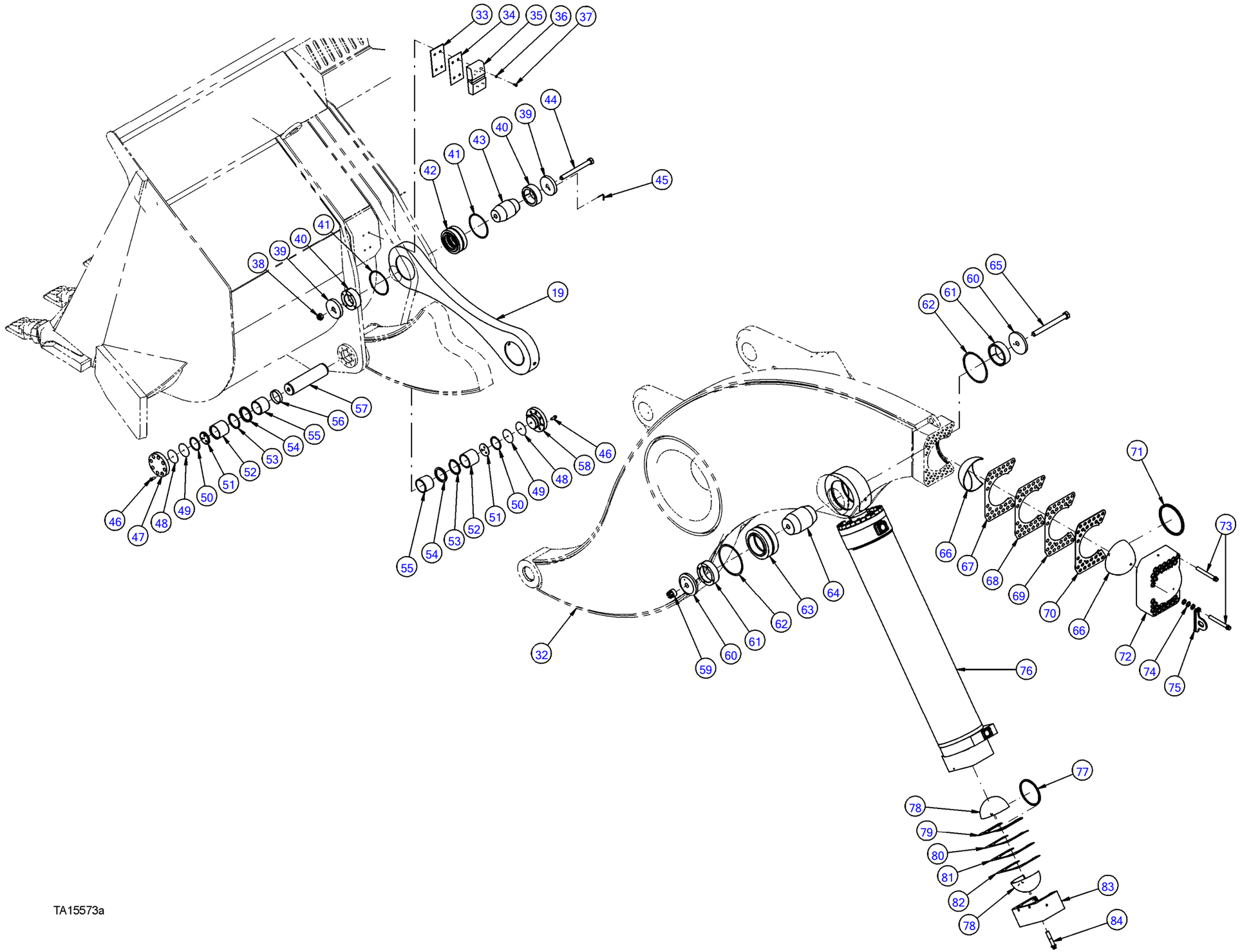
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LIFT ARM AND LINKAGE GROUP



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4267757		LIFTARM AND LINKAGE GROUP - HIGH LIFT		6/27/17
			BUCKET CYLINDER PIVOT		
1	R4016021	4	· LOCKNUT, 1-1/2"-6 - NYLON		
2	R4168136	8	· FLATWASHER, 1-1/2" X 6-1/2" X 1-1/4"		
3	R4168137	8	· BUSHING, SAWCUT - 6-3/4" O.D.		
4	R4093490	REF	· RING, RETAINING - INTERNAL, 9" O.D.	8	
5	R6964139	REF	· BUSHING, SELF-ALIGNING - 6" I.D. X 8-3/4" O.D.	4	
6	R4168138	4	· PIN, 6" X 11"		
7	R4168160	4	· BOLT, 1-1/2"-6 X 16"		
8	N.P.N.	2	· CYLINDER, BUCKET (PAGE 8.15-8.15A)		
			BELLCRANK PIVOT		
9	R4267752	1	· BELLCRANK STRUCTURE, L.H.		
10	R4267751	1	· BELLCRANK STRUCTURE, R.H.		
11	R0801180	32	· BOLT, 1/2"-13 X 1"		
12	R0801181	32	· LOCKWASHER, 1/2"		
13	R4253638	1	· COVER PLATE, LEVEL INDICATOR		
14	R4253639	AR	· SHIM, ROUND - .020"	12	
15	R4168121	4	· BUSHING, CYLINDRICAL - 7" I.D. X 8" O.D. X 5-1/8" - BRONZE		
16	R4168120	2	· SLEEVE, 7" I.D. X 8" O.D. X 7-13/16"		
17	R4168123	2	· PIN, 7" X 17-13/16"		
18	R4253647	3	· COVER PLATE, PIN		
			LEVEL LINK TO BELLCRANK		
19	R4239494	2	· LEVEL LINK ASSEMBLY		
	R4239495	2	· · LEVEL LINK STRUCTURE		
	R0086881	6	· · PLUG, PIPE - 1", SQ. CSK.		
20	R4168160	2	· BOLT, 1-1/2"-6 X 16"		
21	R4273621	4	· FLATWASHER, 1-1/4" X 8" X 1-9/16"		
22	R4236575	4	· BUSHING, SAWCUT - 8-1/4" O.D.		6/27/17
23	R4231208	4	· RING, RETAINING - INTERNAL, 10-13/16" O.D.		
24	R4231131	2	· BUSHING, SELF-ALIGNING - 6-3/4" I.D. X 10-1/2" O.D.		
25	R4236578	2	· PIN, 6-3/4" X 11"		
26	R4016021	2	· LOCKNUT, 1-1/2"-6 - NYLON		
			STOP BLOCKS - BELLCRANK		
27	R4009525	8	· BOLT, 3/4"-10 X 2-1/4"		
28	R0021542	8	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
29	R4246314	2	· STOP BLOCK		
30	R4168170	AR	· SHIM, 1/8" X 7" X 12"		
31	R4168171	AR	· SHIM, 1/4" X 7" X 12"		
32	R4267724	1	· LIFTARM STRUCTURE - L-2350 STANDARD LIFT/L-1850 HIGH LIFT		
			STOP BLOCKS - BUCKET		
33	R4168170	REF	· SHIM, 1/8" X 7" X 12"	4	
34	R4168171	REF	· SHIM, 1/4" X 7" X 12"	4	
35	R4246314	REF	· STOP BLOCK	2	
36	R0021542	REF	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"	8	
37	R4009525	REF	· BOLT, 3/4"-10 X 2-1/4"	8	
			LEVEL LINK TO BUCKET		
38	R4016021	2	· LOCKNUT, 1-1/2"-6 - NYLON		
39	R4273622	4	· FLATWASHER, 1-1/4" X 8" X 1-9/16" - WITH HOLE FOR PIN MEASURMENT		
40	R4236575	4	· BUSHING, SAWCUT - 8-1/4" O.D.		6/27/17

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
41	R4231208	4	· RING, RETAINING - INTERNAL, 10-13/16" O.D.		
42	R4231131	2	· BUSHING, SELF-ALIGNING - 6-3/4" I.D. X 10-1/2" O.D.		
43	R4236578	2	· PIN, 6-3/4" X 11"		
44	R4168160	2	· BOLT, 1-1/2"-6 X 16"		
45	R4234221	1	· TOOL, MEASUREMENT - PIN DEPTH		
			BUCKET TO LIFT ARM		
46	R4001908	32	· CAPSCREW, 3/4"-10 X 1-3/4"		
47	R4215291	2	· CAP, PIN RETAINER - SHORT		
48	R4215294	AR	· SHIM, 1/32"		
49	R4215293	AR	· SHIM, 1/16"		
50	R4082972	4	· RING, RETAINING - INTERNAL, 5-9/16"		
51	R4215290	4	· CAP, PIN PULLER		
52	R4215289	4	· SLEEVE, BUCKET PIVOT - 5" I.D. X 5-3/4" O.D. X 5-1/8"		
53	R4168233	4	· SEAL, GREASE		
54	R4215287	4	· BUSHING, BUCKET THRUST		
55	R4168231	4	· BUSHING, BUCKET PIVOT - 5" I.D. X 5-3/4" O.D. X 4-1/2" - BRONZE		
56	R4168235	2	· SPACER, BUSHING		
57	R4215295	2	· PIN, BUCKET PIVOT		
58	R4215292	1	· CAP, PIN RETAINER - LONG		
			HOIST CYLINDER TO LIFT ARM		
59	R4169047	2	· NUT, TORQUE - 1-3/4"-5		
60	R4273623	4	· WASHER, HOIST PIVOT - WITH HOLE FOR PIN MEASURMENT		
61	R4267738	4	· BUSHING, SAWCUT - 9-1/2" O.D.		
62	R4241002	4	· RING, RETAINING - INTERNAL, 13-3/8"		
63	R4241000	2	· BUSHING, SELF-ALIGNING - 8-1/2" I.D. X 12-3/4" O.D.		
64	R4267739	2	· PIN, 8-1/2" X 12-5/8"		
65	R4273624	2	· BOLT, 1-3/4"-5 X 18"		
			LIFT ARM PIVOT		
66	R4168163	4	· LINER, BALL - HALF, 14"		
67	R4254640	AR	· SHIM, .007"		
68	R4211949	AR	· SHIM, .018"		
69	R4211950	AR	· SHIM, .030"		
70	R4211970	AR	· SPACER, 1/4"		
71	R4267934	2	· SEAL, BALL - 14"		
	R1510303	AR	· ADHESIVE		
72	R4239340	2	· CAP, BALL - LIFTARM, 14" - 28 BOLT		
73	R4241671	56	· CAPSCREW, 1-1/4"-7 X 10"		
74	R4167253	8	· FLATWASHER, 1-1/4" X 2-1/8" X 1/8"		3/25/14
75	R4255603	2	· PLATE, TORQUE		
			HOIST CYLINDER PIVOT		
76	N.P.N.	REF	· CYLINDER, HOIST (PAGE 8.14-8.14A)	2	
77	R4261580	REF	· SEAL, BALL - 12" - NITRILE	2	
78	R4081645	REF	· LINER, BALL - HALF, 12"	4	
79	R4083039	AR	· SHIM, .007"	8	
80	R4170755	AR	· SHIM, .018"	8	
81	R4170756	AR	· SHIM, .030"	4	
82	R4170754	REF	· SPACER, 3/16"	4	
83	R4161182	REF	· CAP, BALL - 12", 10 BOLT	2	
84	R4233222	REF	· CAPSCREW, 1-1/4"-7 X 6"	20	
	R4273722	1	PLATE, LOAD - 110,000 LBS		
	R4040775	1	GRATING STRUCTURE, LIFTARM STEP		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			NOTE:		
			· DO NOT LEAVE TORQUE PLATE ON BALL CAP. TORQUE PLATE IS FOR BALL CAP BOLT INSTALLATION ONLY.		

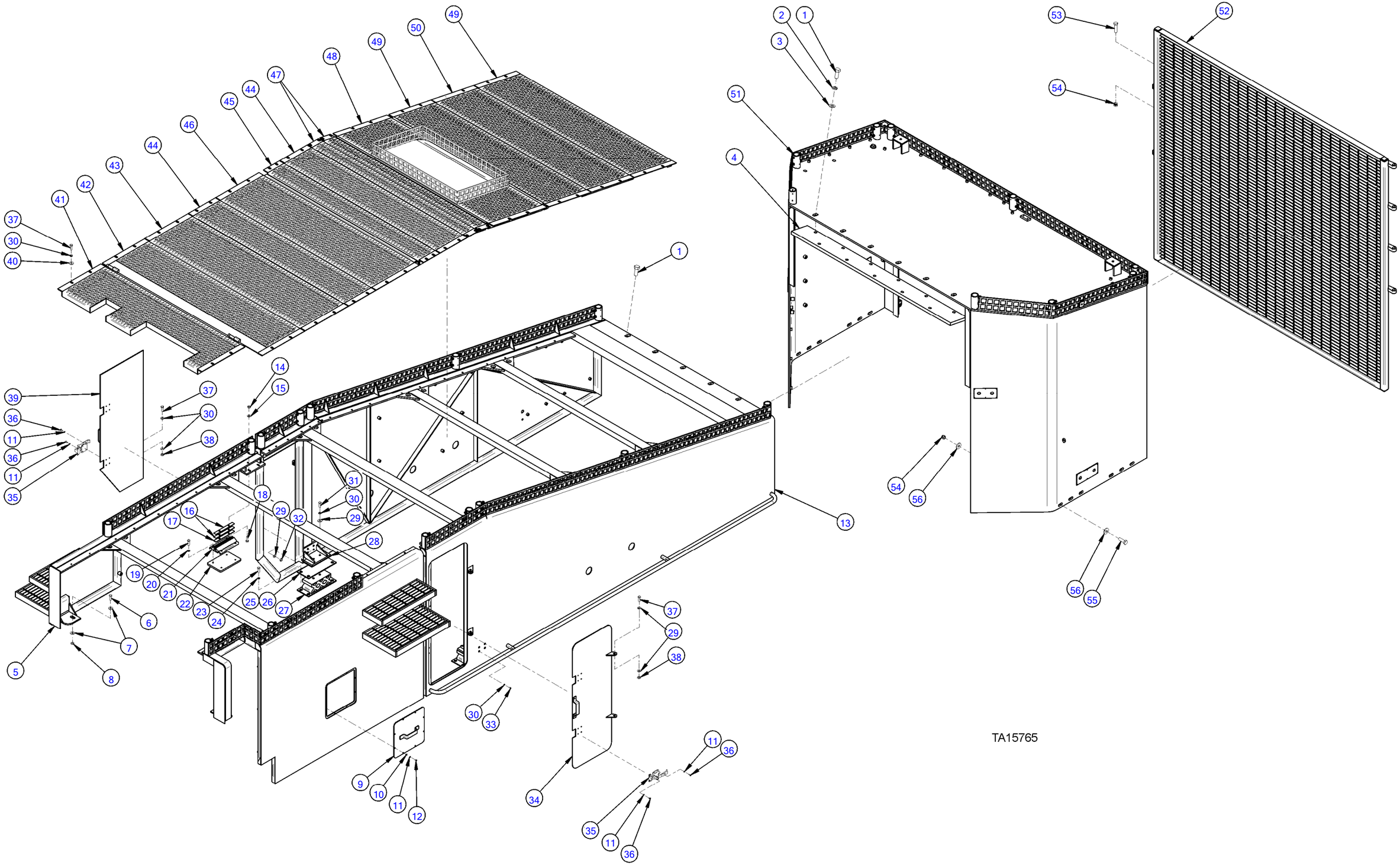
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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SHEET METAL GROUP



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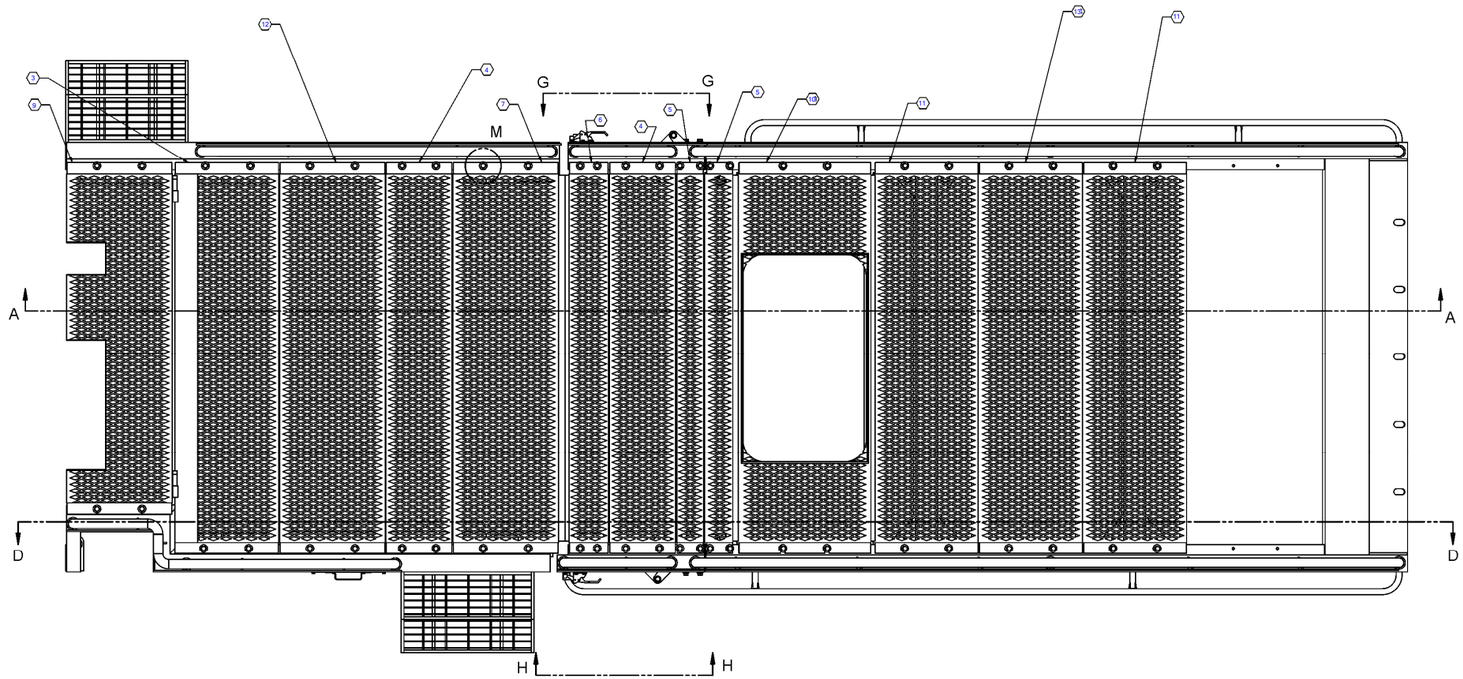
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273626		SHEET METAL GROUP		1/25/19
1	R0986238	11	· BOLT, 1"-14 X 2-1/2"		
2	R4036898	11	· FLATWASHER, 1" I.D. X 2" O.D. X 1/8"		
3	R0021544	11	· LOCKWASHER, 1"		
4	R4267646	1	· MOUNT PLATE, TRANSITION		
5	R4272397	1	· HOOD STRUCTURE, FRONT		
6	R4009525	3	· BOLT, 3/4"-10 X 2-1/4"		
7	R0735509	6	· FLATWASHER, 3/4" I.D. X 2" X 1/8"		
8	R4012940	3	· LOCKNUT, 3/4"-10		
9	R4257807	1	· DOOR STRUCTURE, BLOWER MOTOR		
10	R4010923	8	· FLATWASHER, 1/4"		
11	R0213584	32	· LOCKWASHER, 1/4"		
12	R0812278	8	· BOLT, 1/4"-20 X 5/8"		
13	R4273627	1	· HOOD STRUCTURE, REAR		
14	R0985113	2	· LOCKNUT, 3/8"-16 - NYLON		
15	R4223102	2	· FLATWASHER, 3/8" I.D. X 1" O.D. X 1/16" - CONICAL		
16	R4269977	2	· SHIM, .063" - CHANNEL MOUNT		
17	R4269976	1	· SHIM, .125" - CHANNEL MOUNT		
18	R0808476	2	· BOLT, 3/8"-16 X 1-1/4"		
19	R0186619	4	· BOLT, 3/8"-16 X 1-1/8"		
20	R0753123	4	· LOCKWASHER, 3/8"		
21	R4269330	1	· CHANNEL MOUNT		
22	R4269321	1	· MOUNT PLATE		
23	R4009524	8	· BOLT, 3/4"-10 X 1-3/4"		
24	R0021542	8	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
25	R4274142	2	· SHIM, MOUNT - 1/8"		
26	R4274143	2	· SHIM, MOUNT - 1/4"		
27	R4269315	2	· MOUNT, LATTICE		
28	R4269316	2	· CROSSMEMBER STRUCTURE, HOOD		
29	R0810991	28	· FLATWASHER, 1/2" X 1" X 1/8"		
30	R0801181	64	· LOCKWASHER, 1/2"		
31	R0836043	4	· BOLT, 1/2"-13 X 1"		
32	R0808489	8	· NUT, 1/2"-13		
33	R0788967	8	· BOLT, 1/2"-13 X 3-1/2"		
34	R4273877	1	· DOOR STRUCTURE, L.H.		
35	R4149602	4	· LATCH ASSEMBLY, DRILLED HANDLE		
36	R0417597	24	· BOLT, 1/4"-20 X 1/2"		
37	R4009753	56	· BOLT, 1/2"-13 X 1-1/2"		
38	R4013750	4	· JAMNUT, 1/2"-13		
39	R4273876	1	· DOOR STRUCTURE, R.H.		
40	R0021549	52	· FLATWASHER, 1/2"		
41	R4272445	1	· GRATING STRUCTURE, HOOD		
42	R4272448	1	· GRATING STRUCTURE		
43	R4116566	1	· GRATING STRUCTURE		
44	R4238149	2	· GRATING STRUCTURE, HOOD		
45	R4269331	1	· GRATING STRUCTURE		
46	R4269339	1	· GRATING STRUCTURE, HOOD		
47	R4273693	2	· GRATING STRUCTURE, HOOD		
48	R4273689	1	· GRATING STRUCTURE, EXHAUST STACKS		
49	R4104085	2	· GRATING STRUCTURE		
50	R4104086	1	· GRATING STRUCTURE		
51	R4273630	1	· REAR COWL STRUCTURE		
52	R4263706	1	· DOOR STRUCTURE, COWL		
53	R0021648	2	· BOLT, 3/4"-10 X 3"		
54	R4016018	14	· LOCKNUT, 3/4"-10 - NYLON		
55	R0021646	12	· BOLT, 3/4"-10 X 2-1/2"		
56	R4223106	24	· FLATWASHER, 3/4" I.D. X 2" O.D. X 3/16" - CONICAL		

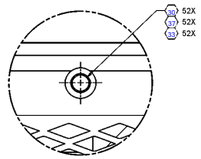
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4227769	REF	FIRE CURTAIN ASSEMBLY	1	1/25/19
	R4231010	REF	· BARRIER, FLUID/FIRE CURTAIN	1	
	R4170893	REF	· SUPPORT STRUCTURE, FIRE CURTAIN	2	
	R0808221	REF	· FLATWASHER, 3/8"	11	
	R0810971	REF	· BOLT, 3/8"-16 X 1"	11	
		REF	DRAWING, SHEET METAL GROUP (R427362600)		7/3/13

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HOOD GROUP





DETAIL M
1:2

ITEM	PART NO.	QTY	DESCRIPTION
48	0812278	8	BOLT HEX .250 -.63 NC G8 FT
47	4010923	8	WASHER FLAT .250 .63 .08
46	4257807	1	STR DOOR BLOWER MTR ACCESS
45	4009524	8	BOLT HX .750 1.750 NC G8 FT
44	0021542	8	WASHER LOCK SPR .750 1.27 .19
43	0213584	32	WASHER LOCK SPR .25 .49 .06
42	4012940	3	NUT JAM .750 NC
41	4013750	4	NUT JAM .500 NC
40	0808489	8	NUT HX .500 NC
38	0753123	2	WASHER LOCK SPR .375 .68 .09
37	0801181	64	WASHER LOCK SPR .500 .873 .125
36	0810991	28	WASHER FLAT .531 1.062 .121
35	4149602	4	LATCH DRILLED
34	0735509	6	WASHER FLAT .750 2.00 .18
33	0021549	52	WASHER FLAT .500 1.38 .13
32	0808221	2	WASHER FLAT .375 .81 .08
31	4009525	3	BOLT HX .750 2.250 NC G8
30	4009753	56	BOLT HX .500 1.500 NC G8
29	0788967	8	BOLT HX .500 3.500 NC G8
28	0836043	4	BOLT HX .500 1.000 NC G8 FT
27	0809476	2	BOLT HX .375 1.250 NC G8
26	0417597	24	BOLT HEX .250 .500 NC G8 FT

ITEM	PART NO.	QTY	DESCRIPTION
25	4269316	2	STR HOOD MOUNT
23	4269330	1	CHANNEL MOUNT
22	4273676	2	STR HANDRAIL REAR
21	4277287	1	STR HANDRAIL 20.61
20	4277283	1	STR HANDRAIL 16.94
19	4272473	1	STR HAND RAIL
18	4272478	1	STR HANDRAIL LH
17	4269976	1	SHIM CHANNEL MOUNT .125
16	4269977	2	SHIM CHANNEL MOUNT .063
15	4273877	1	STR DOOR LH
14	4273876	1	STR DOOR RH
13	4104086	1	STR GRATING HOOD
12	4116566	1	STR GRATING
11	4104085	2	STR GRATING HOOD-CUTOUT
10	4273689	1	STR GRATING STACKS
9	4272445	1	STR GRATING HOOD L2350
8	4269315	2	MOUNT LATTICE
7	4269331	1	STR GRATING
6	4269339	1	STR GRATING HOOD
5	4273693	2	STR GRATING HOOD
4	4238149	2	STR GRATING HOOD
3	4272448	1	STR GRATING
2	4273627	1	STR HOOD REAR L1850G2
1	4272397	1	STR HOOD FRONT

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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
427-3626

		DATE
DWN		
CHK		
ENGR		
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HOOD L1850 G2

SIZE E | DO NOT SCALE | DWG NO. 4273628 | REV 04

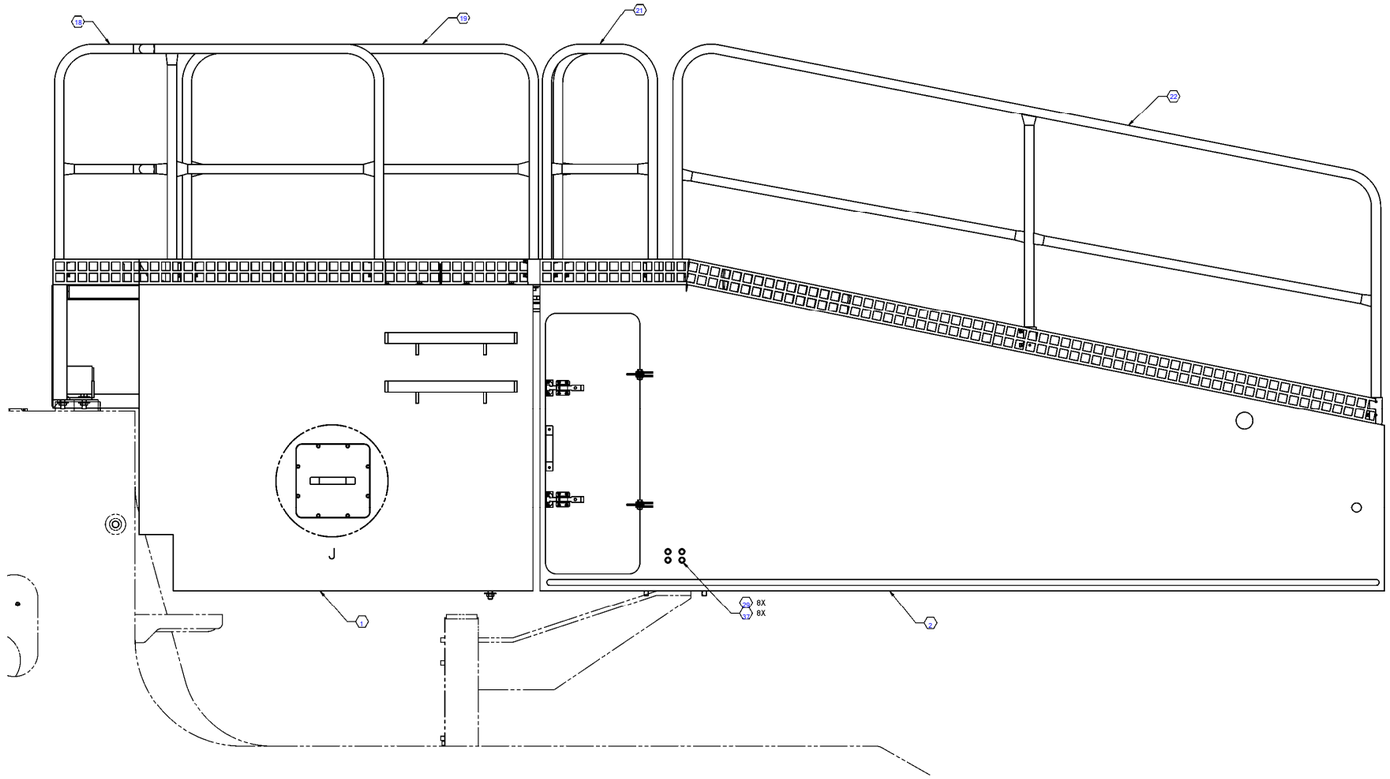
SCALE 1/6 | 32.00 lb | SHEET 1 OF 3

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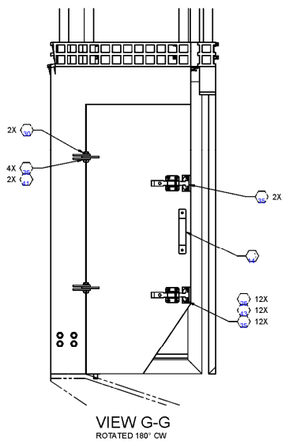
HOOD GROUP

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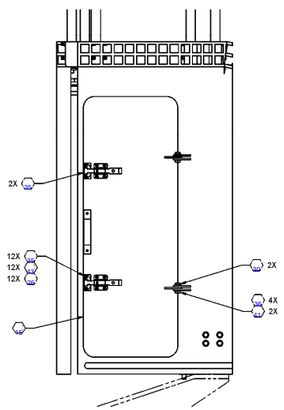
HOOD GROUP



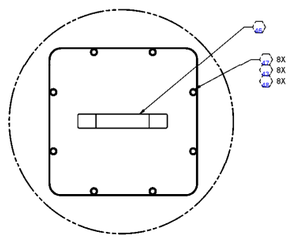
VIEW J-J



VIEW G-G
ROTATED 180° CW



VIEW H-H



DETAIL J
1:4

GP HOOD L1650 G2

E | DO NOT SCALE | 4273628 | 04

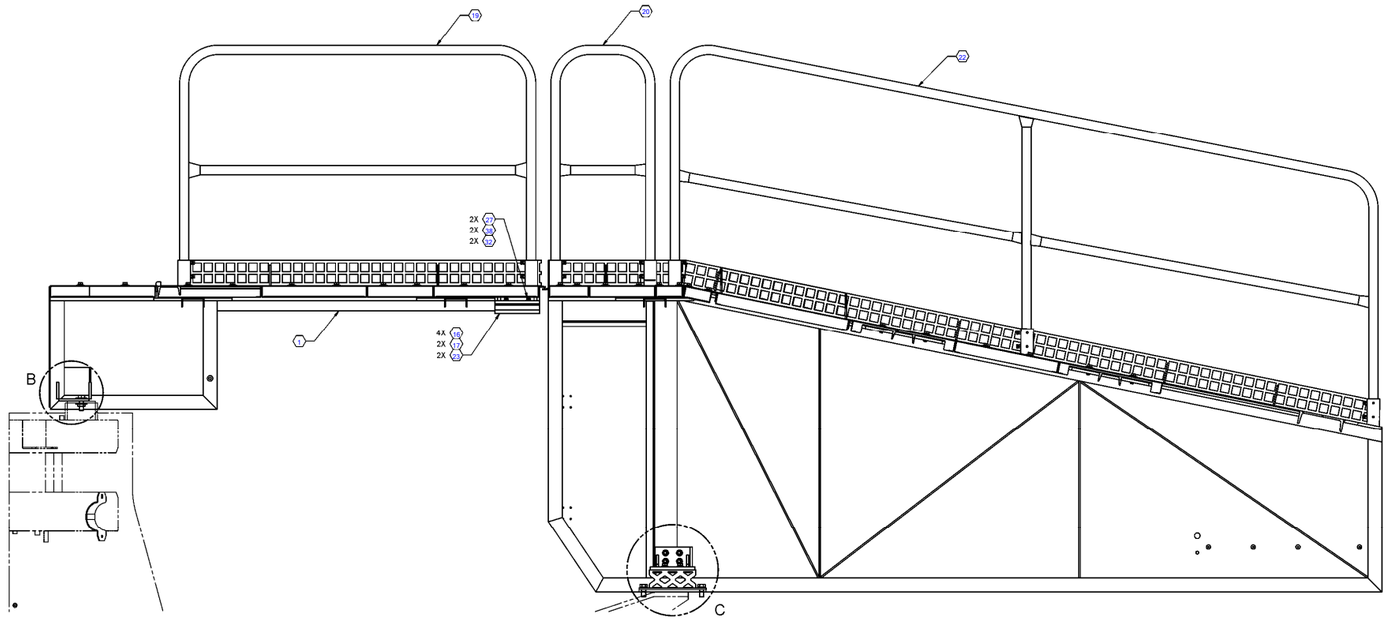
SCALE 1/8 | WT 3288.9 lbm | SHEET 2 OF 3

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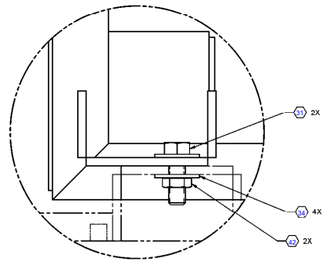
HOOD GROUP

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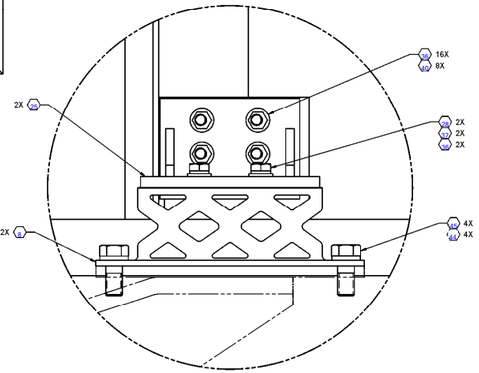
HOOD GROUP



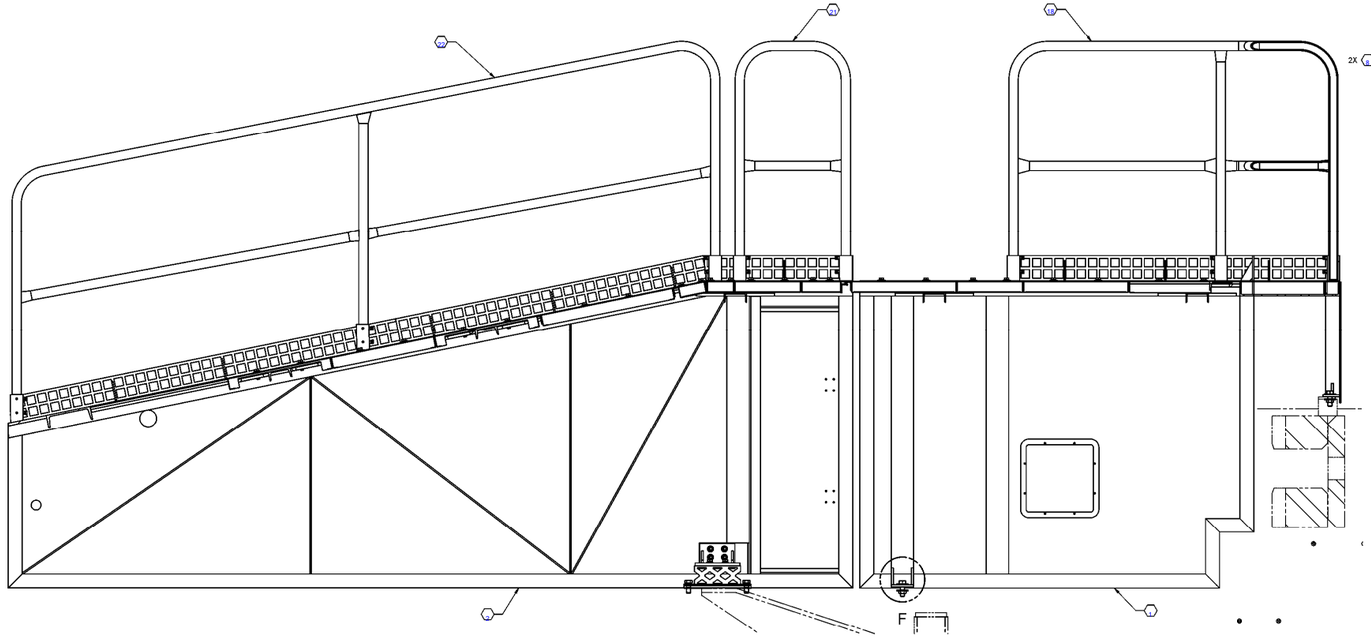
SECTION A-A



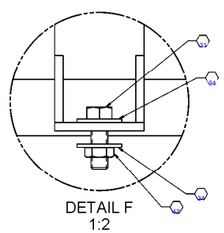
DETAIL B
1:2
TYP DETAIL



DETAIL C
1:2
TYP DETAIL



SECTION D-D
ROTATED 180° CW



DETAIL F
1:2

GP HOOD L1850 G2

DRAWN		E	DO NOT SCALE	4273628	04
CHECKED		SCALE 1/8	WT wt 3289.9 lbm	SHEET 3 OF 3	

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273628		HOOD GROUP		
1	R4272397	1	· HOOD STRUCTURE, FRONT		
2	R4273627	1	· HOOD STRUCTURE, REAR		
3	R4272448	1	· GRATING STRUCTURE		
4	R4238149	2	· GRATING STRUCTURE, HOOD		
5	R4273693	2	· GRATING STRUCTURE, HOOD		
6	R4269339	1	· GRATING STRUCTURE, HOOD		
7	R4269331	1	· GRATING STRUCTURE		
8	R4269315	2	· MOUNT, LATTICE		
9	R4272445	1	· GRATING STRUCTURE, HOOD		
10	R4273689	1	· GRATING STRUCTURE, EXHAUST STACKS		
11	R4104085	2	· GRATING STRUCTURE		
12	R4116566	1	· GRATING STRUCTURE		
13	R4104086	1	· GRATING STRUCTURE		
14	R4273876	1	· DOOR STRUCTURE, R.H.		
15	R4273877	1	· DOOR STRUCTURE, L.H.		
16	R4269977	AR	· SHIM, .063" - CHANNEL MOUNT	2	
17	R4269976	AR	· SHIM, .125" - CHANNEL MOUNT	1	
18	R4272478	1	· HANDRAIL STRUCTURE, L.H.		
19	R4272473	1	· HANDRAIL STRUCTURE		
20	R4277283	1	· HANDRAIL STRUCTURE, 17"		
21	R4277287	1	· HANDRAIL STRUCTURE, 20-1/2"		
22	R4273676	2	· HANDRAIL STRUCTURE, SIDE HOOD		
23	R4269330	1	· CHANNEL MOUNT		
24	N.P.N.	2	· NOT USED		
25	R4269316	2	· CROSSMEMBER STRUCTURE, HOOD		
26	R0417597	24	· BOLT, 1/4"-20 X 1/2"		
27	R0808476	2	· BOLT, 3/8"-16 X 1-1/4"		
28	R0836043	4	· BOLT, 1/2"-13 X 1"		
29	R0788967	8	· BOLT, 1/2"-13 X 3-1/2"		
30	R4009753	56	· BOLT, 1/2"-13 X 1-1/2"		
31	R4009525	3	· BOLT, 3/4"-10 X 2-1/4"		
32	R0808221	2	· FLATWASHER, 3/8"		
33	R0021549	52	· FLATWASHER, 1/2"		
34	R0735509	6	· FLATWASHER, 3/4" I.D. X 2" X 1/8"		
35	R4149602	4	· LATCH ASSEMBLY, DRILLED HANDLE		
36	R0810991	28	· FLATWASHER, 1/2" X 1" X 1/8"		
37	R0801181	64	· LOCKWASHER, 1/2"		
38	R0753123	2	· LOCKWASHER, 3/8"		
39	N.P.N.		· NOT USED		
40	R0808489	8	· NUT, 1/2"-13		
41	R4013750	4	· JAMNUT, 1/2"-13		
42	R4012940	3	· LOCKNUT, 3/4"-10		
43	R0213584	32	· LOCKWASHER, 1/4"		
44	R0021542	8	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
45	R4009524	8	· BOLT, 3/4"-10 X 1-3/4"		
46	R4257807	1	· DOOR STRUCTURE, BLOWER MOTOR		
47	R4010923	8	· FLATWASHER, 1/4"		
48	R0812278	8	· BOLT, 1/4"-20 X 5/8"		
	R4273628	REF	HOOD GROUP		

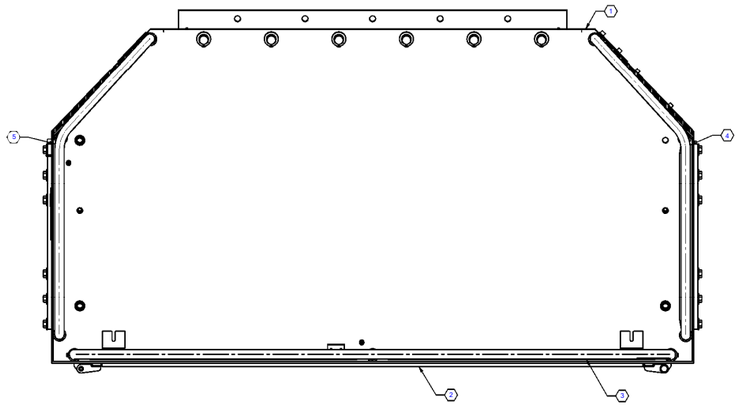
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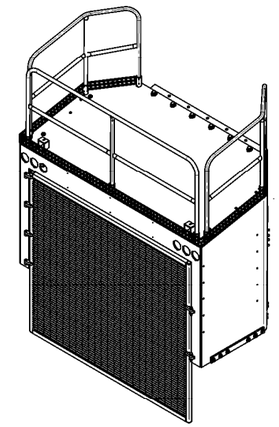
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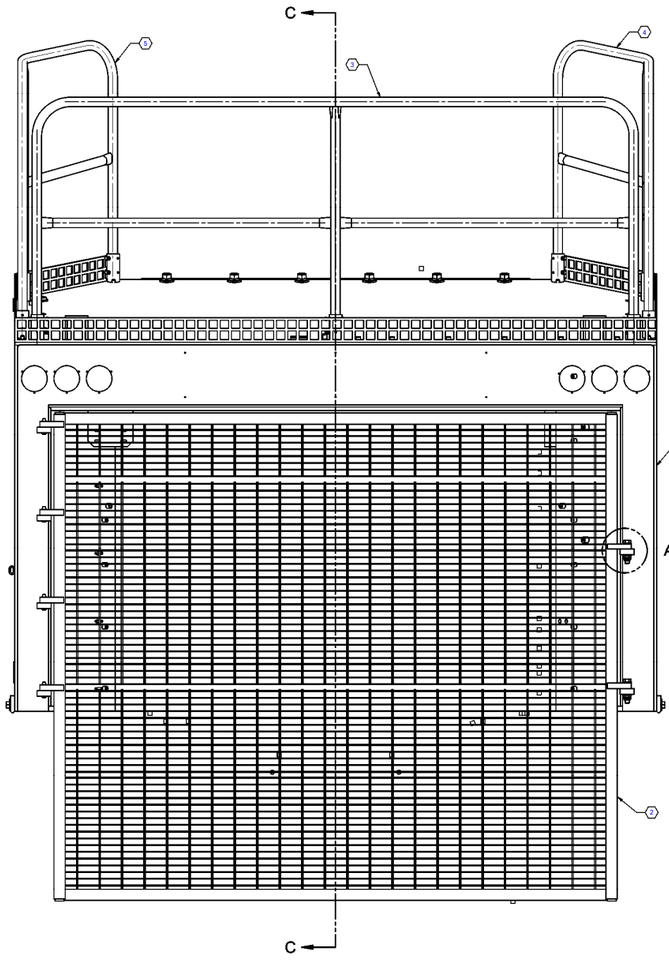
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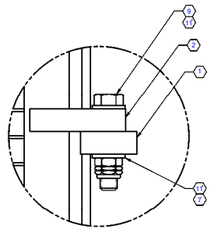
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COWL GROUP

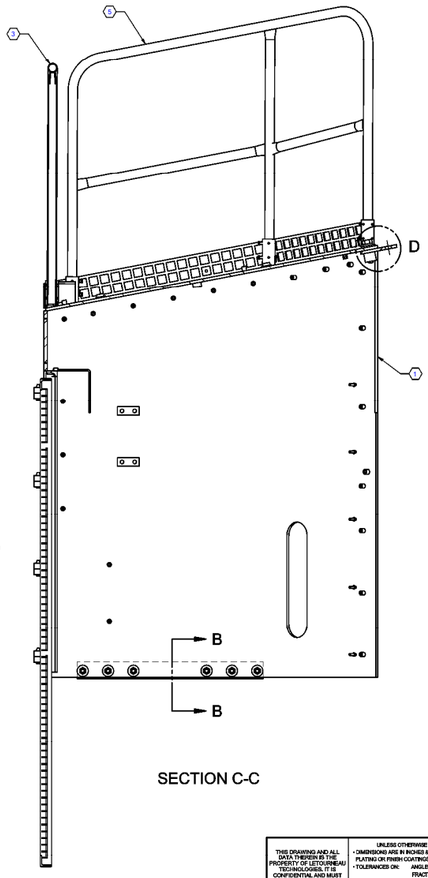




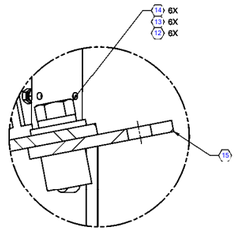




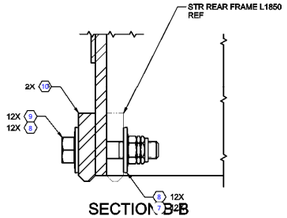
DETAIL A
1:2
TYP



SECTION C-C



DETAIL D
1:2



SECTION B-B
1:2

ITEM	PART NO.	QTY	DESCRIPTION
15	4287232	1	STR MOUNT TRANS TOP
14	0021668	6	BOLT HX 1.000 3.000 NC G8
13	4125632	6	WASHER LOCK SPR 1.024 1.70 .306
12	4286559	6	WASHER FLAT 1.063 2.500 .265
11	4016046	4	WASHER FLAT .812 1.469 .160
10	4276697	2	MOUNT COWL L1850 G2
9	0021651	14	BOLT HX .750 3.750 NC G8
8	4223106	24	WASHER .750 HARD CONICAL
7	4016018	14	NUT LOCK NYL INS .750 NC
5	4277305	1	STR HANDRAIL LEFT
4	4277288	1	STR HANDRAIL RIGHT
3	4267588	1	STR HANDRAIL 106
2	4263706	1	STR DOOR COWL TIER II L-1650
1	4273630	1	STR COWL L1850 G2

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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
427-3828

DWN	S. MURRY	11/04/10
CHK	SEM	11/04/10
ENGR	SEM	11/04/10
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP COWL L-1850 G2

SIZE	DO NOT SCALE	DWG NO.	REV
E		4273629	06

SCALE 1/8 WT KT 3257.5 lbm SHEET 1 OF 1

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COWL GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273629		COWL GROUP		4/9/18
1	R4273630	1	· REAR COWL STRUCTURE		
2	R4263706	1	· DOOR STRUCTURE, COWL		
3	R4267588	1	· HANDRAIL STRUCTURE, 106"		
4	R4277288	1	· HANDRAIL STRUCTURE, RIGHT		
5	R4277305	1	· HANDRAIL STRUCTURE, LEFT		
6	N.P.N.		· NOT USED		4/9/18
7	R4016018	14	· LOCKNUT, 3/4"-10 - NYLON		4/9/18
8	R4223106	24	· FLATWASHER, 3/4" I.D. X 2" O.D. X 3/16" - CONICAL		4/9/18
9	R0021651	14	· BOLT, 3/4"-10 X 3-3/4"		4/9/18
10	R4276697	2	· MOUNT BAR, COWL		4/9/18
11	R4016046	4	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		4/9/18
12	R4286559	6	· FLATWASHER, 1" I.D. X 2-1/2" O.D. X 1/4"		4/9/18
13	R4125632	6	· LOCKWASHER, 1"		4/9/18
14	R0021668	6	· BOLT, 1"-8 X 3"		4/9/18
15	R4287232	1	· MOUNT STRUCTURE, TRANSITION		4/9/18
		REF	DRAWING, COWL GROUP (R427362906)		4/9/18

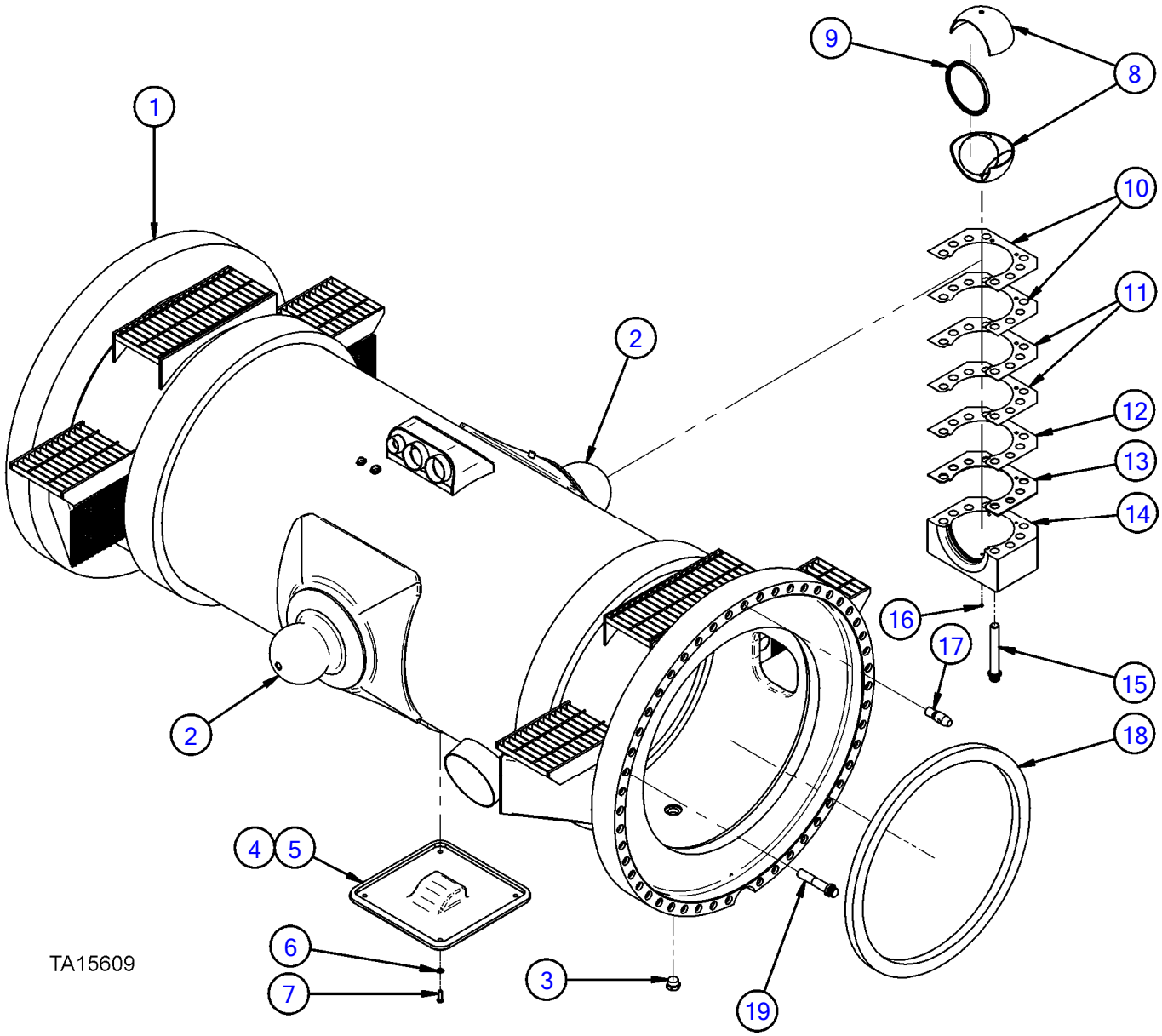
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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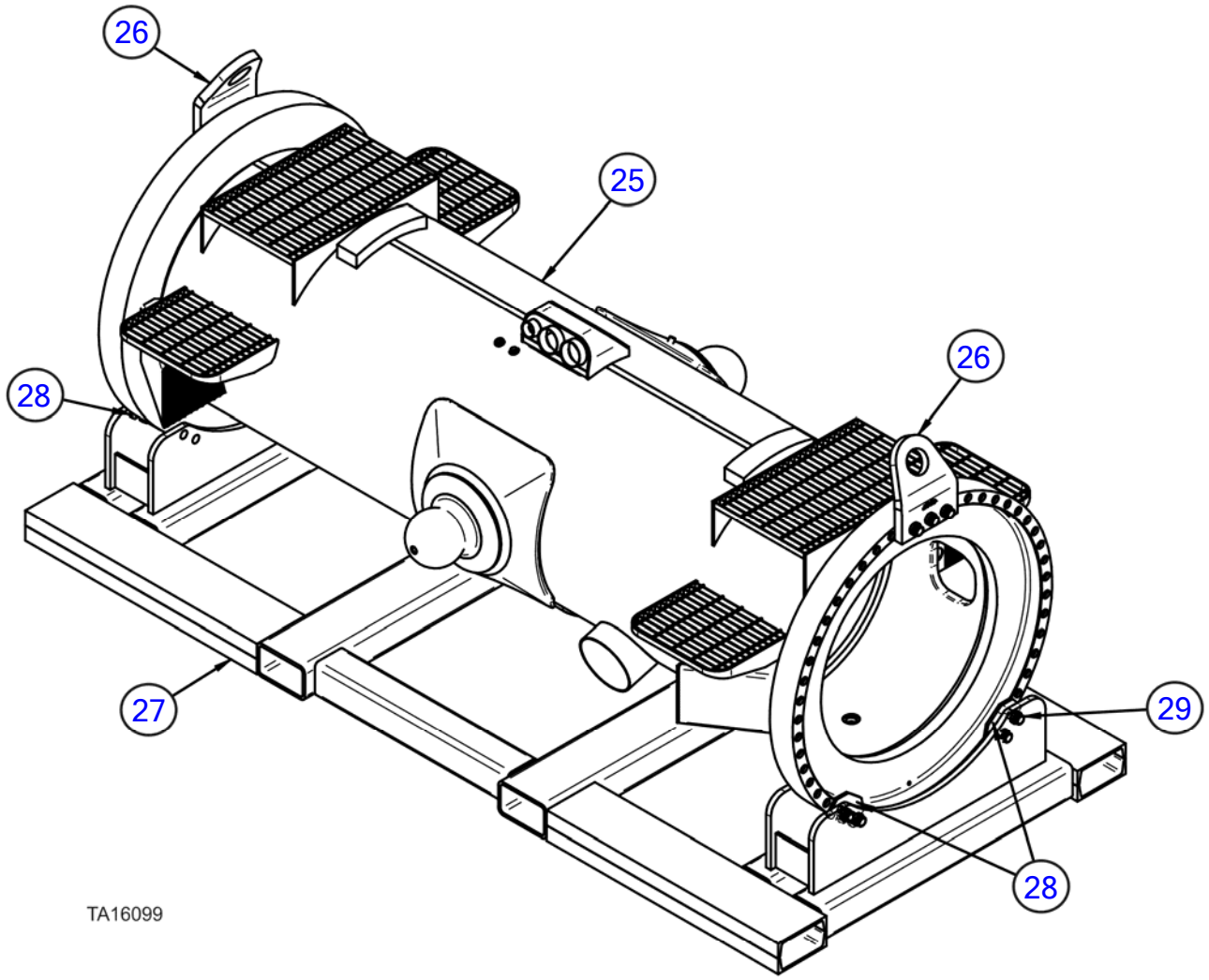
REAR AXLE GROUP



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REAR AXLE GROUP



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4267059		REAR FRAME GROUP (-1)		12/5/16
1	N.P.N.	1	· AXLE STRUCTURE, REAR (SEE NOTE 1)		
2	R4168156	2	· · BALL AND BASE, STEERING PIVOT - 9", WELDED ON (SEE NOTE 2)		
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	· · · 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	2	· 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	R4253537	REF	· DOWEL PIN, 1-1/4"-7 - DRIVER TO AXLE HOUSING	2	
18	R4269651	REF	· SEAL, AXLE TO MOTOR	2	
19	R4233222	REF	· CAPSCREW, 1-1/4"-7 X 6"		
			NOTE 1:		5/12/16
	R4267056S	1	REAR AXLE WITH SHIPPING SKID		5/12/16
25	R4267056	1	· AXLE STRUCTURE, REAR		5/12/16
	R1039550	1	· REAR AXLE SKID ASSEMBLY		5/12/16
26	R1038910	2	· · LIFTING EYE, AXLE		5/12/16
27	R1039506	1	· · SKID STRUCTURE, REAR AXLE		12/5/16
28	R1039509	4	· · SPACER PLATE, REAR AXLE		12/5/16
29	R4161357	14	· · CAPSCREW, 1-1/4"-7 X 3-1/2"		5/12/16
			NOTE 2:		
			· 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.		

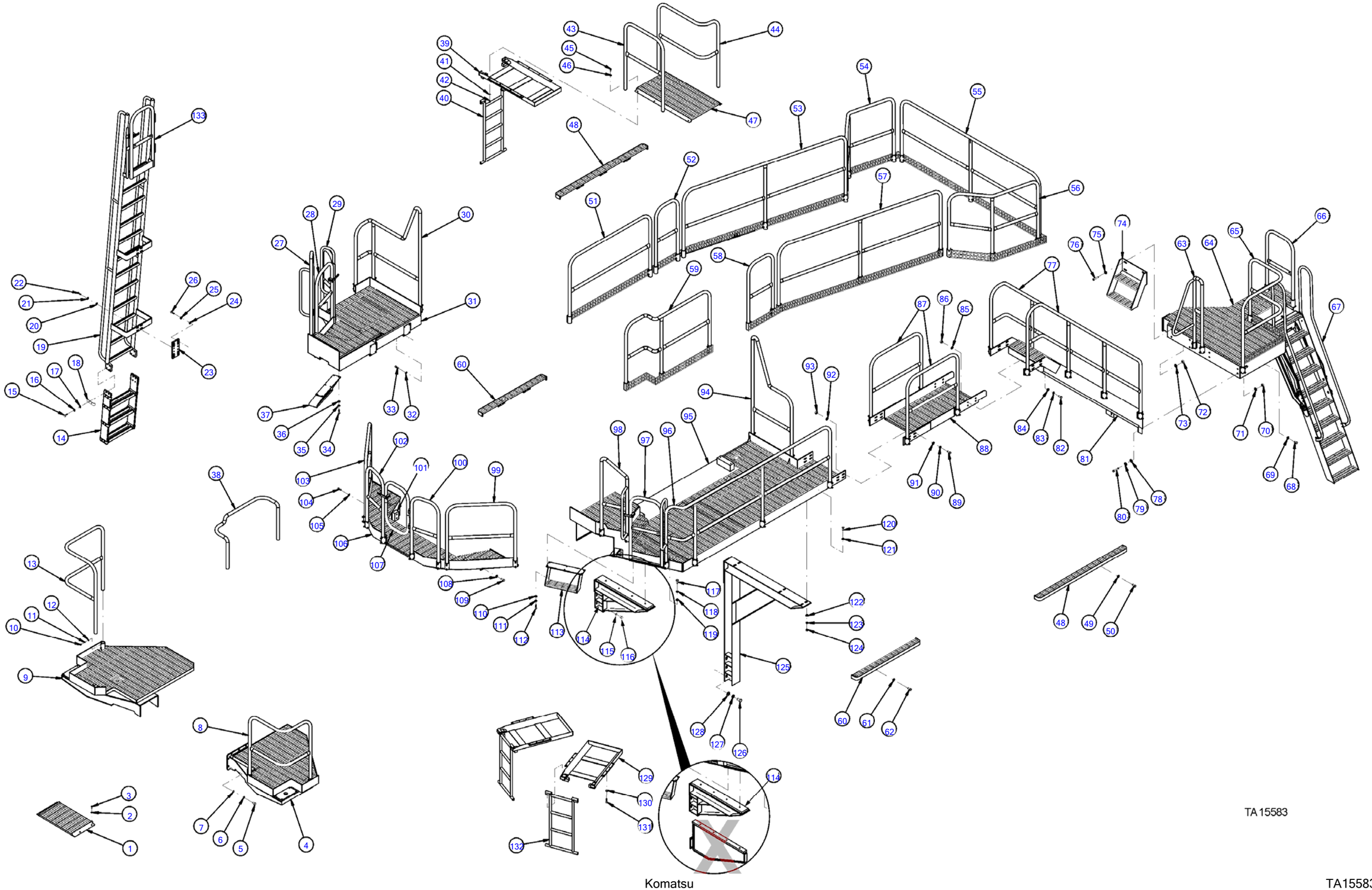
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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 (L-1850 G2) (PL-649)		2/8/17
1	R4040775	1	GRATING STRUCTURE, LIFTARM STEP		
2	R0801181	4	LOCKWASHER, 1/2"		
3	R4009752	4	BOLT, 1/2"-13 X 1-1/4"		
4	R4272418	1	CATWALK STRUCTURE/LIGHT POLE MOUNT, FRONT - L.H.		
5	R4009522	7	BOLT, 3/4"-10 X 1-1/4"		
6	R0021542	7	LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
7	R4016046	7	FLATWASHER, 3/4" X 1-1/2" X 1/8"		
8	R4272440	1	HANDRAIL STRUCTURE		
9	R4272407	1	CATWALK STRUCTURE/LIGHT POLE MOUNT, FRONT - R.H.		
10	R4009522	7	BOLT, 3/4"-10 X 1-1/4"		
11	R0021542	7	LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
12	R4016046	7	FLATWASHER, 3/4" X 1-1/2" X 1/8"		
13	R4272414	1	HANDRAIL STRUCTURE		
14	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		
15	R0808488	8	BOLT, 1/2"-13 X 2-1/4"		
16	R0801181	8	LOCKWASHER, 1/2"		
17	R0810991	8	FLATWASHER, 1/2" X 1" X 1/8"		
18	R4103804	4	RETAINER, STEP		
19	R4273136	1	LADDER STRUCTURE , R.H.		
20	R0810991	8	FLATWASHER, 1/2" X 1" X 1/8"		
21	R0801181	8	LOCKWASHER, 1/2"		
22	R0827222	8	BOLT, 1/2"-13 X 2"		
23	R4168328	2	MOUNT PAD, LADDER		
24	R4009753	8	BOLT, 1/2"-13 X 1-1/2"		
25	R0801181	8	LOCKWASHER, 1/2"		
26	R4210449	8	FLATWASHER, 1/2" I.D. X 1-1/2" O.D. X 1/4"		
27	R4276806	1	HANDRAIL STRUCTURE		
28	R4273133	1	GATE STRUCTURE		
29	R4273167	1	HANDRAIL STRUCTURE WITH HANDLE		
30	R4276839	1	HANDRAIL STRUCTURE, CATWALK - R.H.		
31	R4273134	1	HANDRAIL STRUCTURE, R.H.		
32	R4223104	8	FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		
33	R4009752	8	BOLT, 1/2"-13 X 1-1/4"		
34	R4009640	6	BOLT, 3/8"-16 X 1-1/2"		
35	R0753123	6	LOCKWASHER, 3/8"		
36	R0808221	6	FLATWASHER, 3/8"		
37	R4274171	1	STEP STRUCTURE, ONE STEP		
38	R4350114	1	HANDRAIL STRUCTURE		
39	R4276764	1	LADDER HOUSING, R.H.		
40	R4276768	1	LADDER STRUCTURE		
41	R0810971	8	BOLT, 3/8"-16 X 1"		
42	R0233042	8	FLATWASHER, 3/8"		
43	R4272460	1	HANDRAIL STRUCTURE		
44	R4276783	1	HANDRAIL STRUCTURE, LOWER R.H. CATWALK		
45	R0810970	8	BOLT, 3/8"-16 X 3/4"		
46	R0808221	8	FLATWASHER, 3/8"		
47	R4274268	1	GRATING STRUCTURE, CATWALK - R.H.		
48	R4277754	2	GRATING STRUCTURE EXTENSION, 68"		
49	R0808221	10	FLATWASHER, 3/8"		
50	R0808476	10	BOLT, 3/8"-16 X 1-1/4"		
51	R4272473	1	HANDRAIL STRUCTURE		
52	R4277283	1	HANDRAIL STRUCTURE, 17"		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
53	R4273676	1	HANDRAIL STRUCTURE, SIDE HOOD		
54	R4277288	1	HANDRAIL STRUCTURE, RIGHT		
55	R4267588	1	HANDRAIL STRUCTURE, 106"		
56	R4277305	1	HANDRAIL STRUCTURE, LEFT		
57	R4273676	1	HANDRAIL STRUCTURE, SIDE HOOD		
58	R4277287	1	HANDRAIL STRUCTURE, 20-1/2"		
59	R4272478	1	HANDRAIL STRUCTURE, L.H.		
60	R4277772	2	GRATING STRUCTURE EXTENSION, 49-5/8"		
61	R0808221	10	FLATWASHER, 3/8"		
62	R0808476	10	BOLT, 3/8"-16 X 1-1/4"		
63	R4276860	1	HANDRAIL STRUCTURE		
64	R4274263	1	CATWALK STRUCTURE, COWL		
65	R4276692	1	HANDRAIL STRUCTURE, L.H. REAR		
66	R4218779	1	HANDRAIL STRUCTURE		
67	R4256855	1	LADDER ASSEMBLY, REAR ACCESS		
68	R0025762	18	BOLT, 5/8"-11 X 1-1/2"		
69	R4223105	18	FLATWASHER, 5/8" I.D. X 1-3/4" O.D. X 1/8" - CONICAL		
70	R0021629	4	BOLT, 5/8"-11 X 1-3/4"		
71	R4010925	4	FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
72	R0808489	4	NUT, 1/2"-13		
73	R4223104	4	FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		
74	R4276870	1	STEP STRUCTURE, TWO STEP		
75	R0810991	4	FLATWASHER, 1/2" X 1" X 1/8"		
76	R4009753	4	BOLT, 1/2"-13 X 1-1/2"		
77	R4276840	2	HANDRAIL STRUCTURE, STAIR		
78	R4010925	4	FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
79	R0021541	4	LOCKWASHER, 5/8"		
80	R0198721	4	NUT, 5/8"-11		
81	R4272683	1	STAIR STRUCTURE		
82	R0021631	8	BOLT, 5/8"-11 X 2-1/4"		
83	R0021541	8	LOCKWASHER, 5/8"		
84	R4010925	8	FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
85	R4010925	8	FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
86	R0198721	8	NUT, 5/8"-11		
87	R4276835	2	HANDRAIL STRUCTURE		
88	R4274528	1	CATWALK STRUCTURE, TIRE WALKWAY		
89	R0021630	8	BOLT, 5/8"-11 X 2"		
90	R0021541	8	LOCKWASHER, 5/8"		
91	R4010925	8	FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
92	R4010925	8	FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
93	R0198721	8	NUT, 5/8"-11		
94	R4276830	1	HANDRAIL STRUCTURE		
95	R4272685	1	CATWALK STRUCTURE, CAB - L.H.		
96	R4273120	1	HANDRAIL STRUCTURE, CAB - L.H.		
97	R4273142	1	GATE STRUCTURE		
98	R4276822	1	HANDRAIL STRUCTURE		
99	R4276851	1	HANDRAIL STRUCTURE, OUTER		
100	R4269950	1	HANDRAIL STRUCTURE, FRONT INNER - L.H.		
101	R4273979	1	MOUNT EXTENSION		
102	R4264586	1	HANDRAIL STRUCTURE, FRONT INNER - R.H.		
103	R4276851	1	HANDRAIL STRUCTURE, OUTER		
104	R4009754	4	BOLT, 1/2"-13 X 3"		
105	R4223104	4	FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		
106	R4273921	1	CATWALK STRUCTURE, FRONT		
107	R4269951	1	GATE STRUCTURE, CATWALK - FRONT		
108	R4223104	10	FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		
109	R0801180	10	BOLT, 1/2"-13 X 1"		
110	R0808221	6	FLATWASHER, 3/8"		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
111	R0753123	6	LOCKWASHER, 3/8"		
112	R4009640	6	BOLT, 3/8"-16 X 1-1/2"		
113	R4274171	1	STEP STRUCTURE, ONE STEP		
114	R4278598	1	CATWALK STRUCTURE, CAB MOUNT		10/9/15
115	R4286557	4	FLATWASHER, 13/16" I.D. X 2" O.D. X 1/4" - HARDENED		2/8/17
116	R0021649	4	BOLT, 3/4"-10 X 3-1/4"		2/8/17
	R4016018	4	LOCKNUT, 3/4"-10 - NYLON		2/8/17
117	R0025762	4	BOLT, 5/8"-11 X 1-1/2"		
118	R0021541	4	LOCKWASHER, 5/8"		
119	R4010925	4	FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
120	R0021629	6	BOLT, 5/8"-11 X 1-3/4"		
121	R4010925	6	FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
122	R4010925	6	FLATWASHER, 5/8" I.D. X 1-5/16" O.D. X 1/8"		
123	R0021541	6	LOCKWASHER, 5/8"		
124	R0198721	6	NUT, 5/8"-11		
125	R4272698	1	SUPPORT BEAM, REAR - REAR ACCESS PLATFORM STRUCTURE		
126	R0979531	6	BOLT, 1"-8 X 1-1/2"		
127	R0021544	6	LOCKWASHER, 1"		
128	R4036898	6	FLATWASHER, 1" I.D. X 2" O.D. X 1/8"		
129	R4276796	2	LADDER HOUSING, PIVOT AREA ACCESS		
130	R0233042	16	FLATWASHER, 3/8"		
131	R0810971	16	BOLT, 3/8"-16 X 1"		
132	R4276794	2	LADDER HOUSING, PIVOT AREA ACCESS		10/9/15
133	R4269912	1	GATE STRUCTURE, LADDER - R.H.		

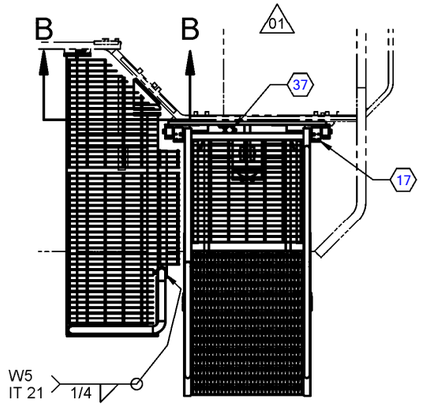
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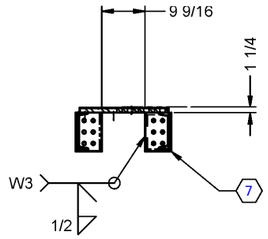
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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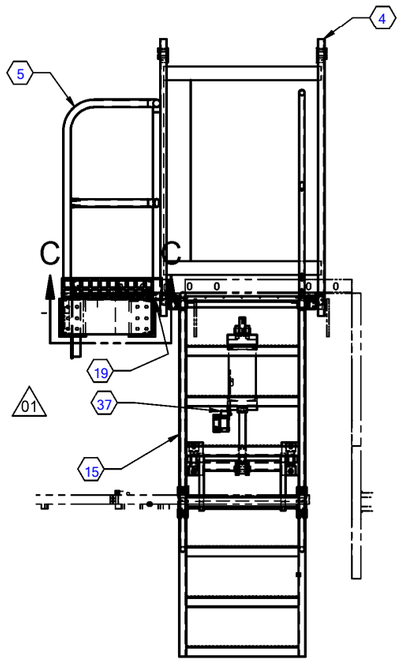
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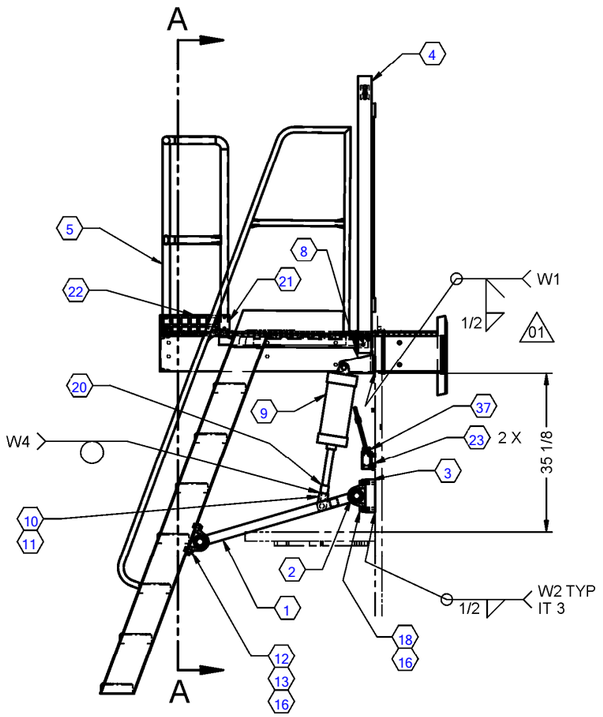
REAR ACCESS LADDER KIT





SECTION B-B





ALL WELDS AWS D1.1 UNLESS OTHERWISE SPECIFIED.

01

ITEM	PART NO.	QTY	DESCRIPTION
37	4224951	1	ASSY LIMIT SWITCH UP LADDER
36	4046177	1	PIPE REDUCER 1/8 MP X 1/4 FP
35	4076887	1	REDUCER NIPPLE 1/2 MP X 1/4 MP
34	4032313	1	HEXAGON PIP NIPPLE 1/2 MP X 1/2 MP
33	4143555	1	ELBOW 90° ADAPTER #4MJX 1/2FP
32	4157122	1	HOSE-A-4-388 0J-0J-2750 PSI
31	09708632	2	FTG GYP 0 4 MJ 2MP
30	4163975	1	HOSE-A-4-196 0J-0J-2750 PSI
29	6988820	1	VALVE CHECK
28	4016785	2	FTG HYD 0 4 MJ 4 MP
27	4031446	1	FEMALE PIPE TEE
26	4030298	2	HEXAGON PIP NIPPLE 1/4 MP X 1/4 MP
25	4186489	1	VALVE, QUICK RELEASE
24	4231356	1	LADDER SWITCH MOUNT
23	4034975	2	BOLT BLOCK 1/4-20 UNC .75 .75 RD
22	4255707	1	TOE BOARD
21	4037652	1	HANDRAIL SUPPORT
20	4227629	1	STOP PIPE
19	2223870	1	ANGLE, 28
18	0824790	4	BOLT HX .500 1.750 NC G8
17	4215315	2	ROLLER ASSY
16	0801181	12	WASHER LOCK SPR .500 .873 .125
15	4211662	1	LADDER STR, REAR
14	4227627	2	STOP POSITIVE
13	0808489	4	NUT HX .500 NC
12	4009753	8	BOLT HX .500 1.500 NC G8
11	4211705	2	PIN, AIR CYLINDER
10	4211706	1	ROD EYE, AIR CYLINDER
9	4211704	1	AIR CYLINDER
8	4211765	1	MOUNT PLATE, AIR CYLINDER
7	4211797	1	BOLT PAD STR
6	4255681	1	CHANNEL OUTER STR
5	4211717	1	RAIL STR, LOWER PLATFORM
4	4211672	1	TRACK STR
3	4211758	2	MOUNT PLATE, PILLOW BLOCK
2	4211661	4	BEARING, PILLOW BLOCK
1	4211676	1	LINK STR

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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

	DATE
DWN	
CHK	
ENGR	
PROD ENGR	
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

KIT REAR ACCESS CONVERSION 1850

SIZE	DO NOT SCALE	DWG NO.	REV
C		4257009	01

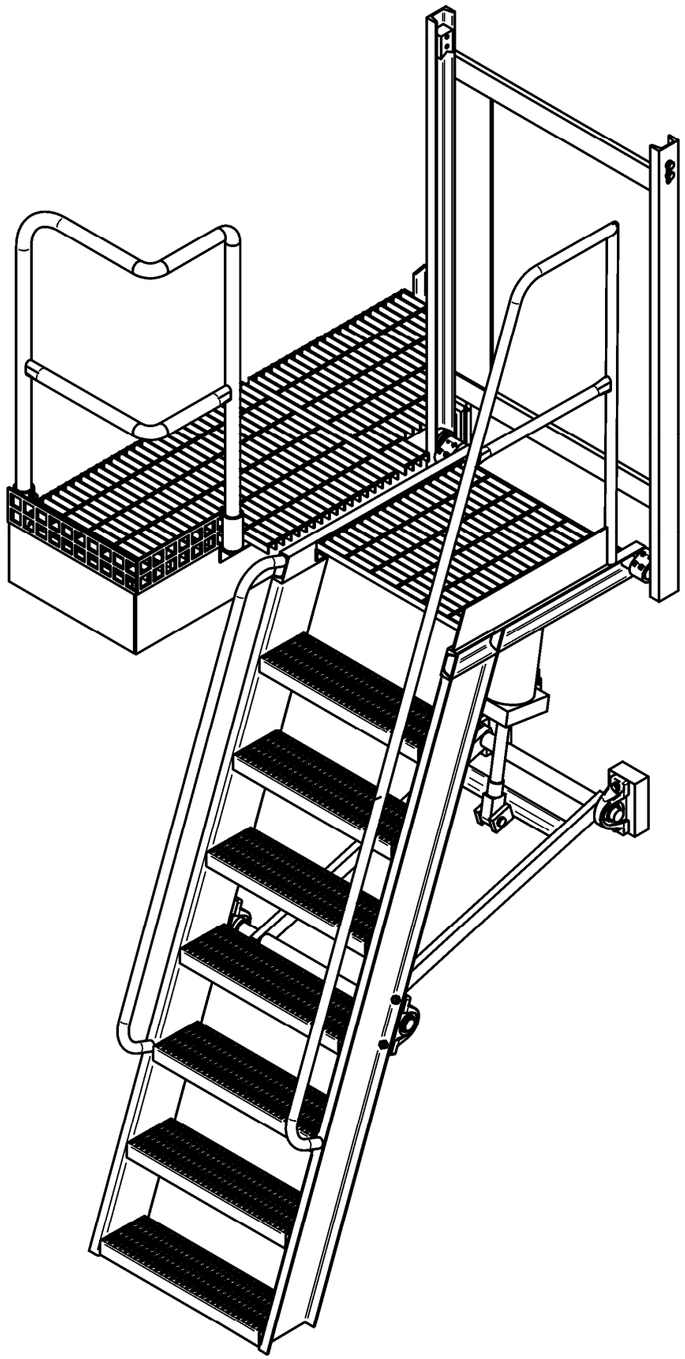
SCALE | EST WT 927.0 lbm | SHEET 1 OF 3

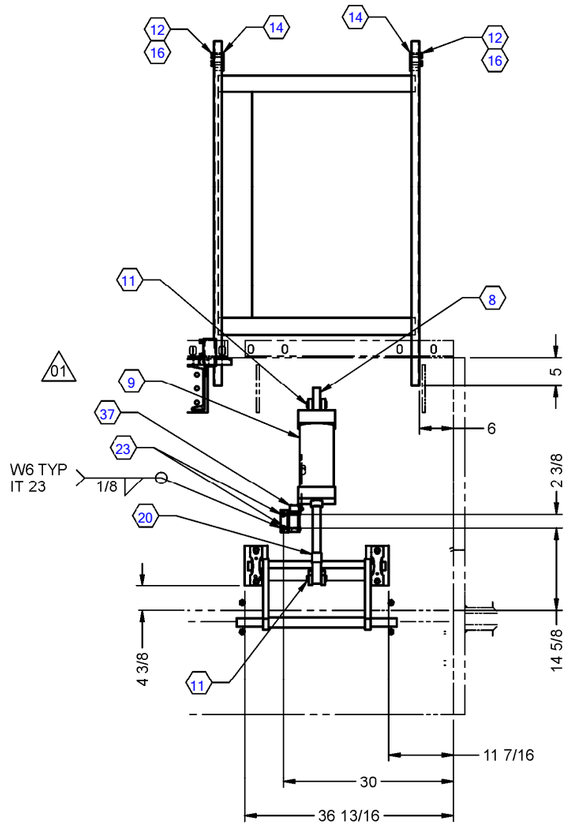
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REAR ACCESS LADDER KIT

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REAR ACCESS LADDER KIT





SECTION A-A
1:16

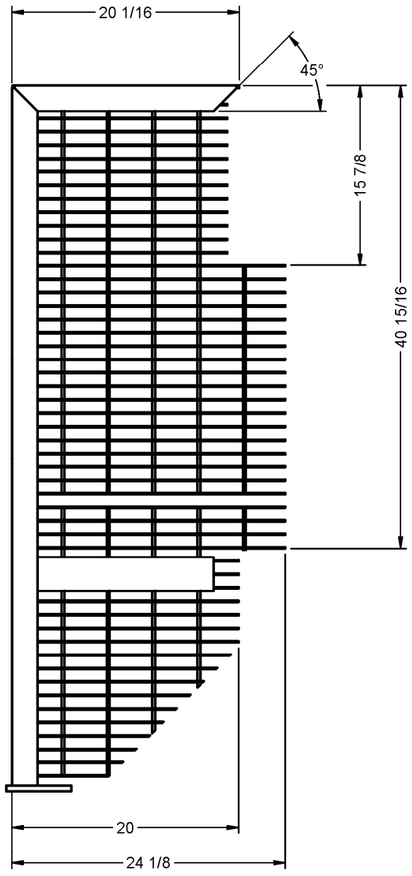
KIT REAR ACCESS CONVERSION 1850	SIZE C	DO NOT SCALE	DWG NO. 4257009	REV 01
DRAWN				
ISSUED	SCALE	EST WT 927.0 lbm	SHEET 2 OF 3	

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REAR ACCESS LADDER KIT

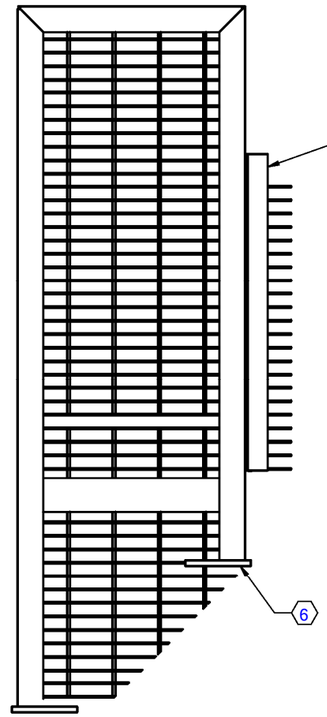
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REAR ACCESS LADDER KIT



MODIFY CURRENT REAR ACCESS CATWALK TO MATCH GIVEN DIMENSIONS.

AFTER MODIFICATION, ADD PARTS INCLUDED IN SECTION A–A.



SECTION C–C

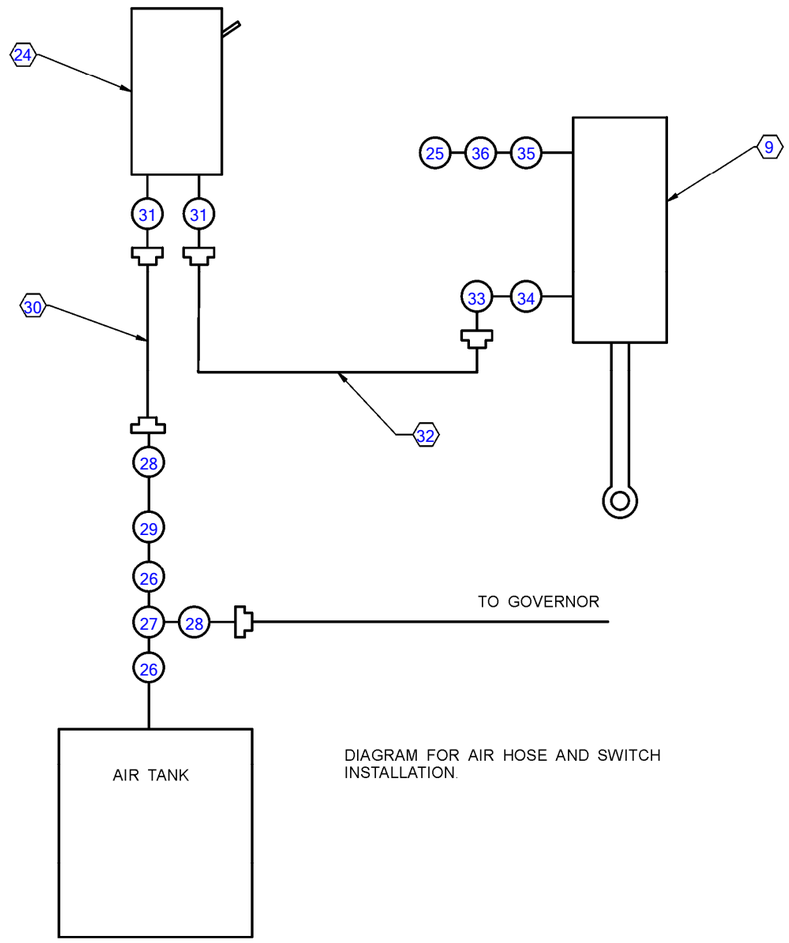


DIAGRAM FOR AIR HOSE AND SWITCH INSTALLATION.

KIT REAR ACCESS CONVERSION 1850				
DRAWN				
ISSUED		SIZE C	DO NOT SCALE	DWG NO 4257009 REV 01
		SCALE	EST WT 927.0 lbm	SHEET 3 OF 3

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REAR ACCESS LADDER KIT

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4257009		REAR ACCESS LADDER KIT		2/8/11
1	R4211676	1	· LINK STRUCTURE		
2	R4211661	4	· BEARING, PILLOW BLOCK		
3	R4211758	2	· PLATE, MOUNT - PILLOW BLOCK		
4	R4211672	1	· TRACK STRUCTURE		
5	R4211717	1	· HANDRAIL STRUCTURE, LOWER PLATFORM		
6	R4255681	1	· CHANNEL, OUTER STRUCTURE		
7	R4211797	1	· BOLT PAD STRUCTURE		
8	R4211765	1	· PLATE, MOUNT - AIR CYLINDER		
9	R4211704	1	· CYLINDER, AIR		
	R4223140	1	· · SEAL KIT, AIR CYLINDER		
10	R4211706	1	· ROD EYE, AIR CYLINDER		
11	R4211705	2	· PIN, AIR CYLINDER		
12	R4009753	8	· BOLT, 1/2"-13 X 1-1/2"		
13	R0808489	4	· NUT, 1/2"-13		
14	R4227627	2	· STOP, POSITIVE		
15	R4211662	1	· LADDER STRUCTURE, REAR		
16	R0801181	12	· LOCKWASHER, 1/2"		
17	R4215315	2	· ROLLER ASSEMBLY		
18	R0824790	4	· BOLT, 1/2"-13 X 1-3/4"		
19	R2223870	1	· ANGLE, 2" X 2" X 28"		
20	R4227629	1	· STOP, PIPE		
21	R4037652	1	· SOCKET		
22	R4255707	1	· TOE BOARD		
23	R4034975	2	· BOLT, 1/4"-28 X 3/4"		
24	R4231356	1	· SWITCH MOUNT, LADDER		
	R4183798	1	· · MOUNT PLATE, SWITCH		
	R0824766	2	· · BOLT, 3/8"-16 X 1/2"		
NS	R4186490	REF	· VALVE, TOGGLE - 3-WAY, 2-POS. - WITH SCREWS	1	
25	R4186489	1	· VALVE, QUICK RELEASE		
26	R4030298	2	· NIPPLE, PIPE - 1/4", HEX		
27	R4031446	1	· TEE, 1/4" FP		
28	R4016785	2	· ADAPTER, 1/4" MP X #4 MJ		
29	R6988820	1	· VALVE, CHECK - 1/4"		
30	R4163975	1	· HOSE ASSEMBLY, #4 X 196"		
31	R0978632	2	· ADAPTER, 1/8" MP X #4 MJ		
32	R4157122	1	· HOSE ASSEMBLY, #4 X 388"		
33	R4143555	1	· ELBOW, 1/2" FP X 90 deg. X #4 MJ		
34	R4032313	1	· NIPPLE, PIPE - 1/2", HEX		
35	R4076887	1	· ADAPTER, 1/4" MP X 1/2" MP		
36	R4046177	1	· REDUCER, 1/4" X 1/8" MP		
37	R4224951	1	· LIMIT SWITCH KIT, LADDER UP		2/8/11
	R4224948	1	· · MOUNT, LIMIT SWITCH		
	R4136778	1	· · SWITCH, LIMIT		
	R4019575	1	· · ACTUATOR, LIMIT SWITCH		
	R4257009	REF	DRAWING, REAR ACCESS LADDER KIT (01)		2/8/11

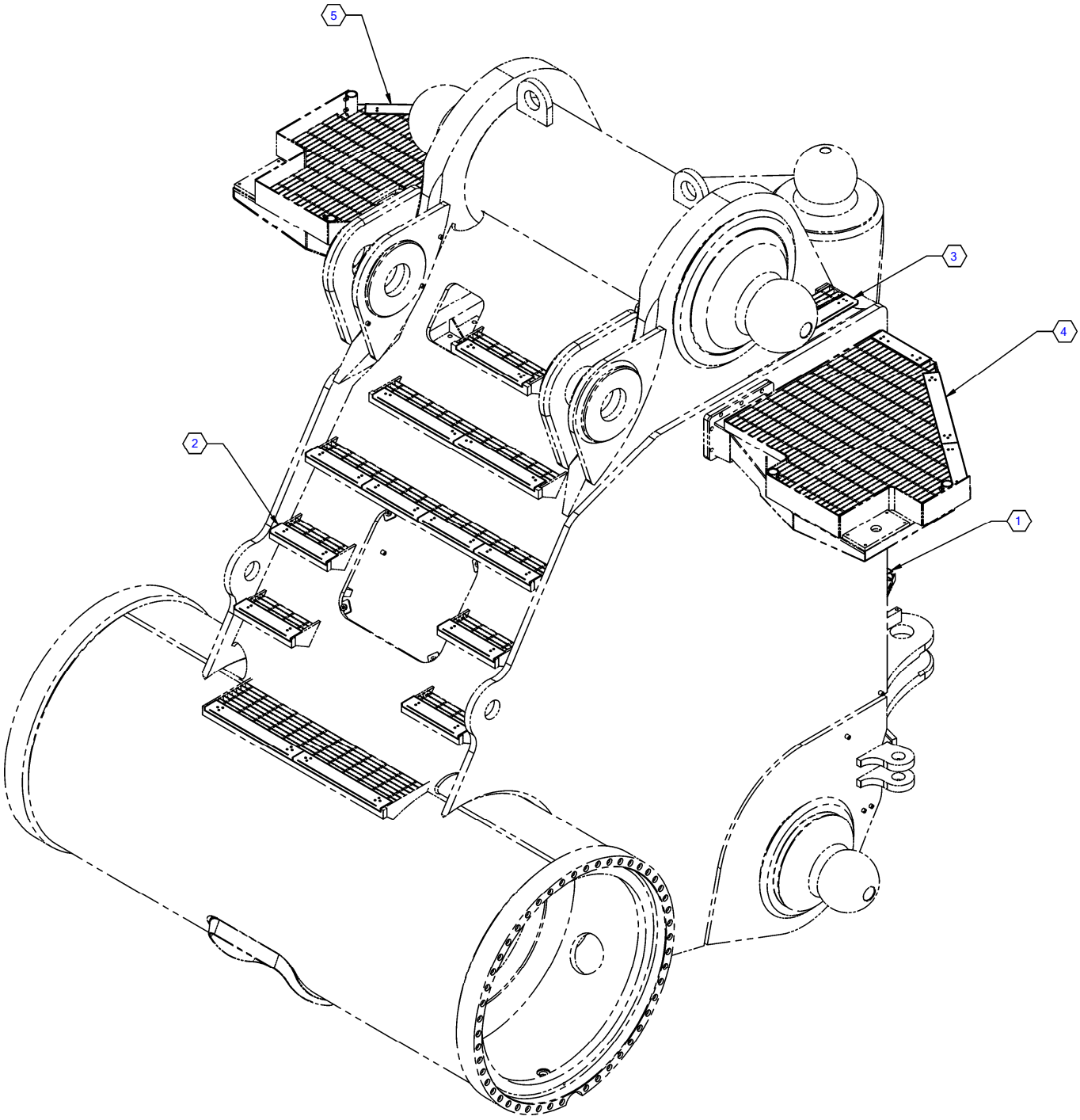
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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
	R4274216		CATWALK ANTISLIP GROUP - FRONT FRAME		
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	R4274212	1	· ANTISLIP GROUP - FRONT FRAME, FRONT		
	R4273908	8	· · STEP COVER - ANTISLIP, 15"		
	R4274025	2	· · STEP COVER - ANTISLIP, 23-1/2"		
	R4273898	2	· · STEP COVER - ANTISLIP, 21-3/4"		
	R4273968	1	· · STEP COVER - ANTISLIP, 17-3/4"		
	R4273927	26	· · SCREW, #12-24 X 2-1/2"		
	R4273946	26	· · SADDLE ASSEMBLY WITH SCREW AND NUT		
3	R4274219	2	· ANTISLIP GROUP - SIDE STEPS		
	R4273902	2	· · STEP COVER - ANTISLIP, 13"		
	R4273946	4	· · SADDLE ASSEMBLY WITH SCREW AND NUT		
4	R4275765	1	· ANTISLIP GROUP - LIGHT POLE CATWALK L.H.		
	R4273908	1	· · STEP COVER - ANTISLIP, 15"		
	R4273902	1	· · STEP COVER - ANTISLIP, 13"		
	R4274025	1	· · STEP COVER - ANTISLIP, 23-1/2"		
	R4273927	6	· · SCREW, #12-24 X 2-1/2"		
5	R4275766	1	· ANTISLIP GROUP - LIGHT POLE CATWALK R.H.		
	R4273908	2	· · STEP COVER - ANTISLIP, 15"		
	R4273968	1	· · STEP COVER - ANTISLIP, 17-3/4"		
	R4273927	6	· · SCREW, #12-24 X 2-1/2"		
		REF	DRAWING, CATWALK ANTISLIP GROUP - FRONT FRAME (R427421600)		

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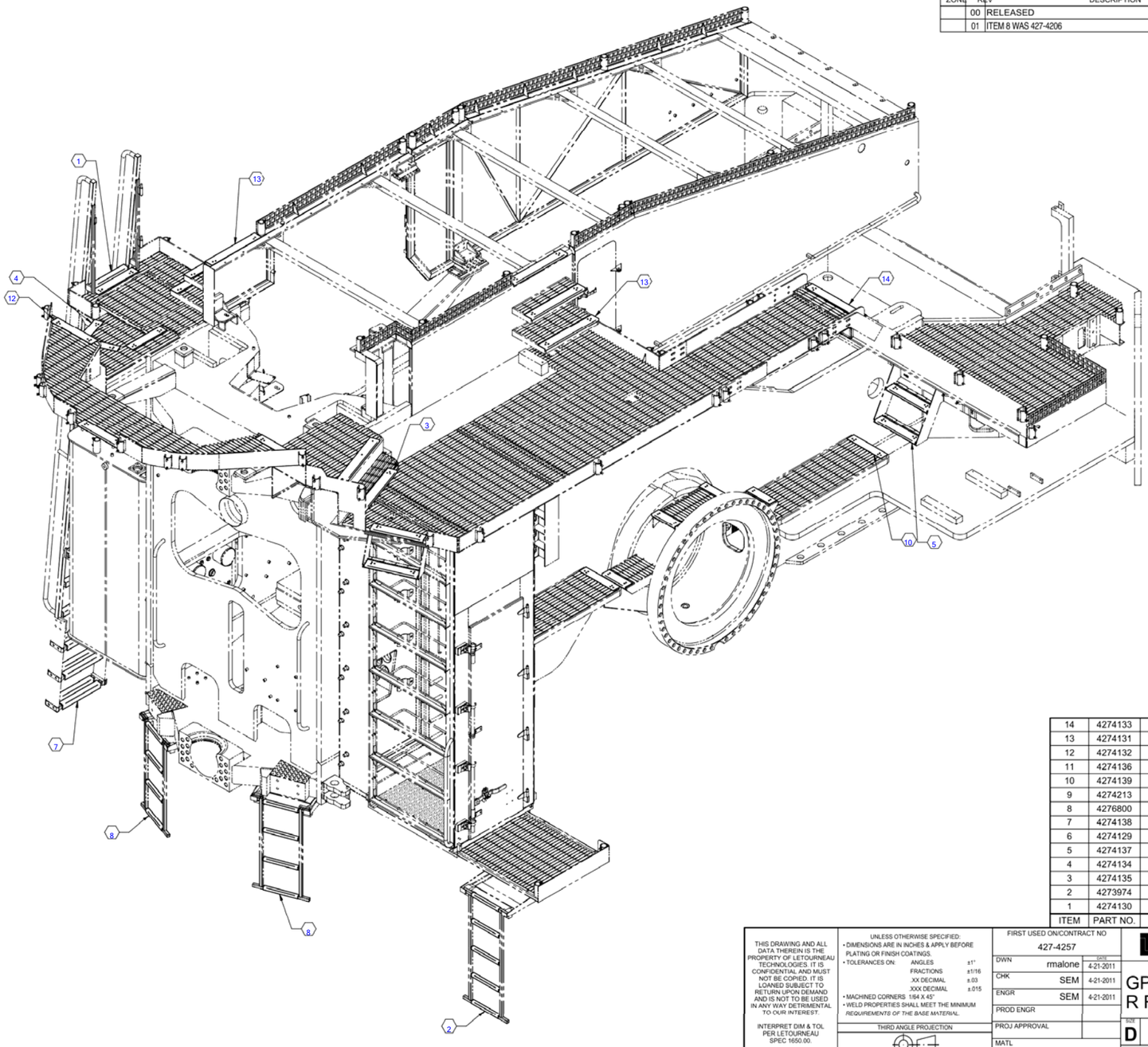
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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CATWALK ANTISLIP GROUP - REAR FRAME

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASED	NL11-0272	4-21	RJM	SEM	SEM
	01	ITEM 8 WAS 427-4206	NL11-1339	8-26	RJM	SEM	SEM



ITEM	PART NO.	QTY	DESCRIPTION
14	4274133	1	GP ANTISLIP L185G2/L235G2 STWY
13	4274131	1	GP ANTISLIP L18G2/L23G2 HOOD
12	4274132	1	GP ANTISLP L18G2/L23G2 F CTWLK
11	4274136	1	GP ANTISLIP L1850 G2 R AXLE
10	4274139	1	GP ANTISLIP L185G2 R FR CTWALK
9	4274213	1	GP ANTISLIP L1850 G2 RH R ACS
8	4276800	2	GP ANTISLIP LAD PIVOT LONG
7	4274138	1	GP ANTISLIP FLEXSTEP FRONT
6	4274129	1	GP ANTISLIP RH R ACS
5	4274137	1	GP ANTISLIP CTWALK COWL
4	4274134	1	GP ANTISLIP L18/L23G2 RH CTWALK
3	4274135	1	GP ANTISLIP L18/23G2 LH CTWALK
2	4273974	1	GP ANTISLIP SR LADDER
1	4274130	1	GP ANTISLIP L18G2/L23G2 RH LAD

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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: 427-4257

		DATE
DWN	rmalone	4-21-2011
CHK	SEM	4-21-2011
ENGR	SEM	4-21-2011
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP ANTISLIP L1850 G2 R FRAME

SIZE D | NTS ALE | DWG NO. 4274123 | REV 01

SCALE 1/16 | EST WT 102.3 lbm | SHEET 1 OF 2

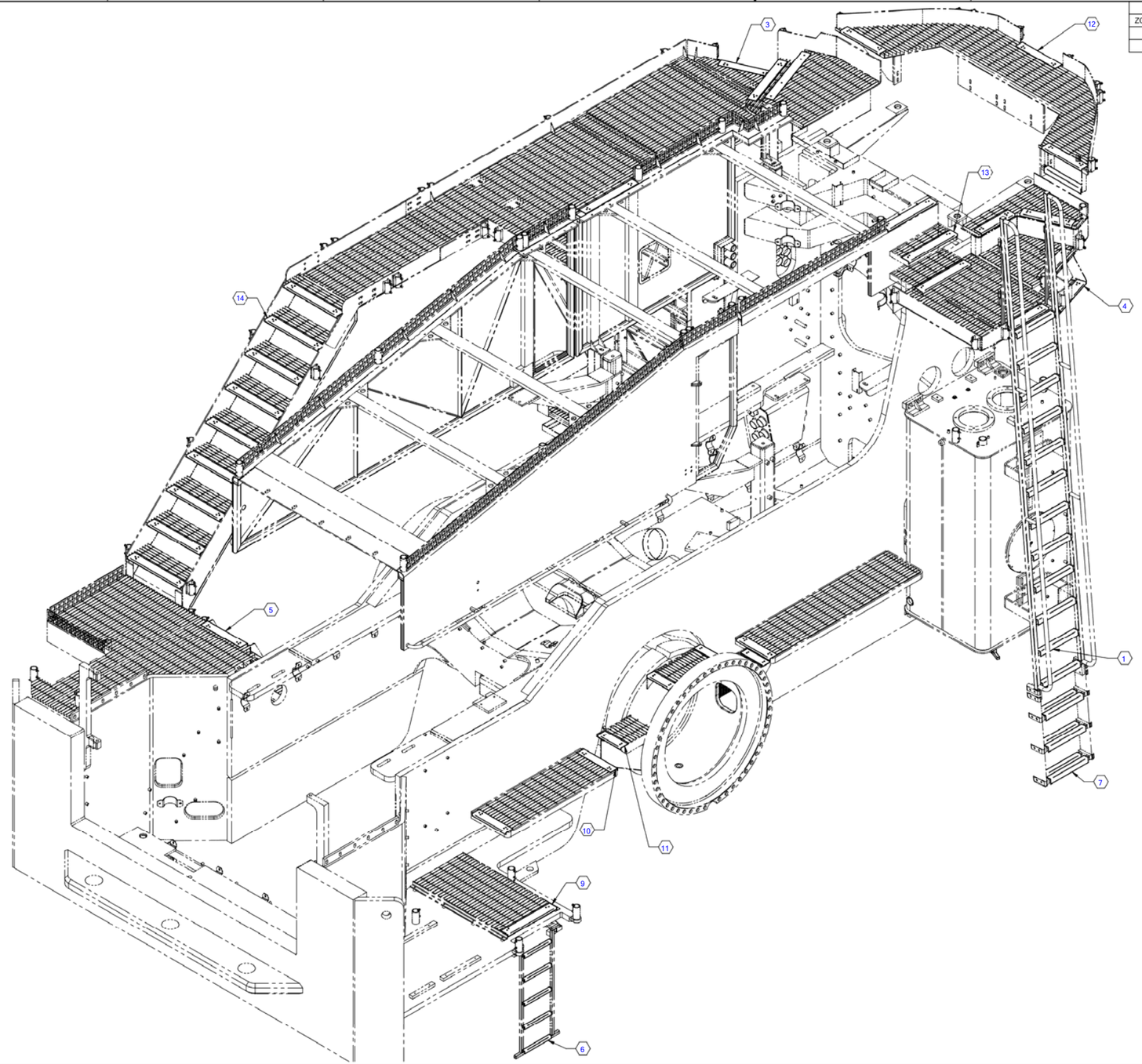
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CATWALK ANTISLIP GROUP - REAR FRAME

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CATWALK ANTISLIP GROUP - REAR FRAME

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	00	RELEASED	NL11-0272	4-21	RJM	SEM	SEM
	01	SEE SHEET 1	NL11-1339	8-26	RJM	SEM	SEM



GP ANTISLIP L1850 G2 R FRAME	SIZE D	NTS ALE	DWG NO. 4274123	REV 01	
DRAWN rmalone					
ISSUED 4-21-2011	SCALE 1/16	EST WT 102.3 lbm	SHEET 2 OF 2		

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CATWALK ANTISLIP GROUP - REAR FRAME

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274123		CATWALK ANTISLIP GROUP - REAR FRAME L-1850 G2		10/8/15
1	R4274130	1	· ANTISLIP GROUP - RIGHT SIDE LADDER		
	R4273913	12	· · STEP COVER - ANTISLIP, 17-3/4"		
	R4273912	1	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
2	R4273974	1	· ANTISLIP GROUP - SR CABINET LADDER		
	R4273914	5	· · STEP COVER - ANTISLIP, 11-7/8"		
	R4273912	1	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
3	R4274135	2	· ANTISLIP GROUP - LEFT SIDE CATWALK		
	R4274156	1	· · NOSING ASSEMBLY, 28"		
	R4273910	1	· · · STEP COVER - ANTISLIP, 28"		
	R4273927	2	· · · SCREW, #12-24 X 2-1/2"		
	R4274158	1	· · NOSING ASSEMBLY, 23- 5/8"		
	R4274025	1	· · · STEP COVER - ANTISLIP, 23-5/8""		
	R4273946	2	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
	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		
4	R4274134	1	· ANTISLIP GROUP - RIGHT SIDE CATWALK		
	R4274049	3	· · NOSING ASSEMBLY, 17-3/4"		
	R4273968	3	· · · STEP COVER - ANTISLIP, 17-3/4"		
	R4273927	6	· · · SCREW, #12-24 X 2-1/2"		
	R4273909	1	· · NOSING ASSEMBLY, 15"		
	R4273908	1	· · · STEP COVER - ANTISLIP, 15"		
	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		
5	R4274137	1	· ANTISLIP GROUP - CATWALK COWL		
	R4273968	1	· · STEP COVER - ANTISLIP, 17-3/4"		
	R4273927	2	· · SCREW, #12-24 X 2-1/2"		
6	R4274129	1	· ANTISLIP GROUP - RIGHT SIDE REAR ACCESS		
	R4273914	5	· · STEP COVER - ANTISLIP, 11-7/8"		
	R4273912	1	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
7	R4274138	1	· ANTISLIP GROUP - FRONT FLEXSTEP		
	R4273913	6	· · STEP COVER - ANTISLIP, 17-3/4"		
	R4273912	1	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
8	R4276800	1	· ANTISLIP GROUP - LADDER PIVOT LONG		
	R4273914	4	· · STEP COVER - ANTISLIP, 11-7/8"		
	R4273912	1	· · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		
9	R4274213	1	· ANTISLIP GROUP - RIGHT SIDE REAR ACCESS		
	R4274026	1	· · NOSING ASSEMBLY, 21-3/4"		
	R4273898	1	· · · STEP COVER - ANTISLIP, 21-3/4"		
	R4273946	2	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
10	R4274139	1	· ANTISLIP GROUP - RIGHT SIDE FRONT CATWALK		
	R4274204	4	· · NOSING ASSEMBLY, 15"		
	R4273908	4	· · · STEP COVER - ANTISLIP, 15"		
	R4273946	8	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
11	R4274136	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		
12	R4274132	1	· ANTISLIP GROUP - FRONT CATWALK		
	R4274049	3	· · NOSING ASSEMBLY, 17-3/4"		
	R4273968	3	· · · STEP COVER - ANTISLIP, 17-3/4"		
	R4273912	1	· · · ADHESIVE - SIKAFLEX 291, 10.5 OUNCE TUBE		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274148	1	· · STEP COVER - ANTISLIP, 17-3/4"		
	R4273912	1	· · ADHESIVE - SILAFLEX 291, 10.5 OUNCE TUBE		
13	R4274131	1	· ANTISLIP GROUP - HOOD		
	R4274158	2	· · NOSING ASSEMBLY 23-5/8"		
	R4274025	2	· · · STEP COVER - ANTISLIP, 23-5/8"		
	R4273946	4	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
	R4274026	2	· · NOSING ASSEMBLY, 21-3/4""		
	R4273898	2	· · · STEP COVER - ANTISLIP, 21-3/4"		
	R4273946	4	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
	R4274029	1	· · NOSING ASSEMBLY, 21-3/4"		
	R4273898	1	· · · STEP COVER - ANTISLIP, 21-3/4"		
	R4273927	2	· · · SCREW, #12-24 X 2-1/2"		
	R4273900	1	· · NOSING ASSEMBLY, 23-5/8"		
	R4274025	1	· · · STEP COVER - ANTISLIP, 23-5/8"		
	R4273927	2	· · · SCREW, #12-24 X 2-1/2"		
14	R4274133	1	· ANTISLIP GROUP - STAIRWAY		
	R4274158	9	· · NOSING ASSEMBLY 23-5/8"		
	R4274025	9	· · · STEP COVER - ANTISLIP, 23-5/8"		
	R4273946	18	· · · SADDLE ASSEMBLY WITH SCREW AND NUT		
		REF	DRAWING, CATWALK ANTISLIP GROUP - REAR FRAME (R427412301)		10/8/15

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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		

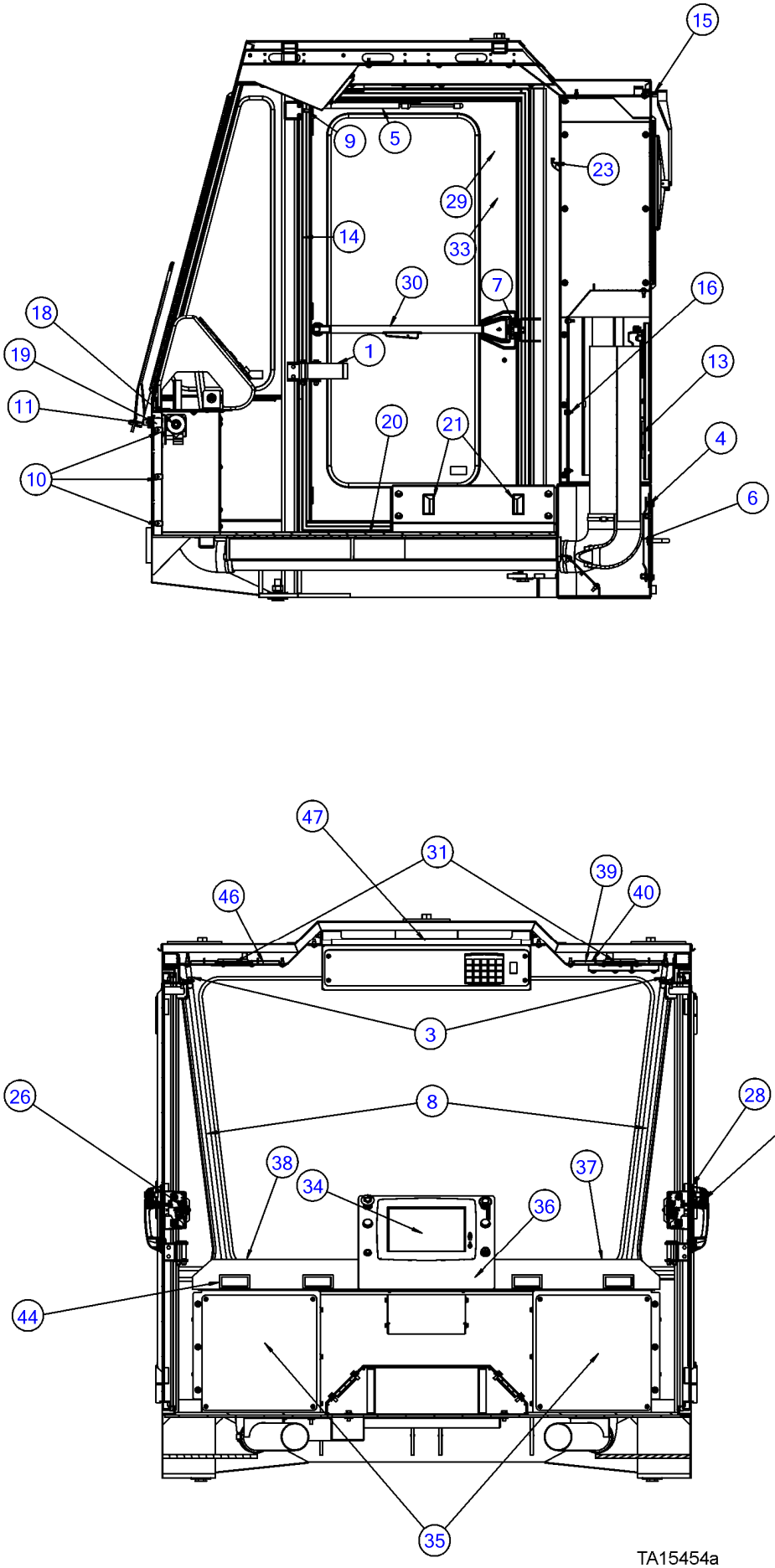
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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CAB ASSEMBLY

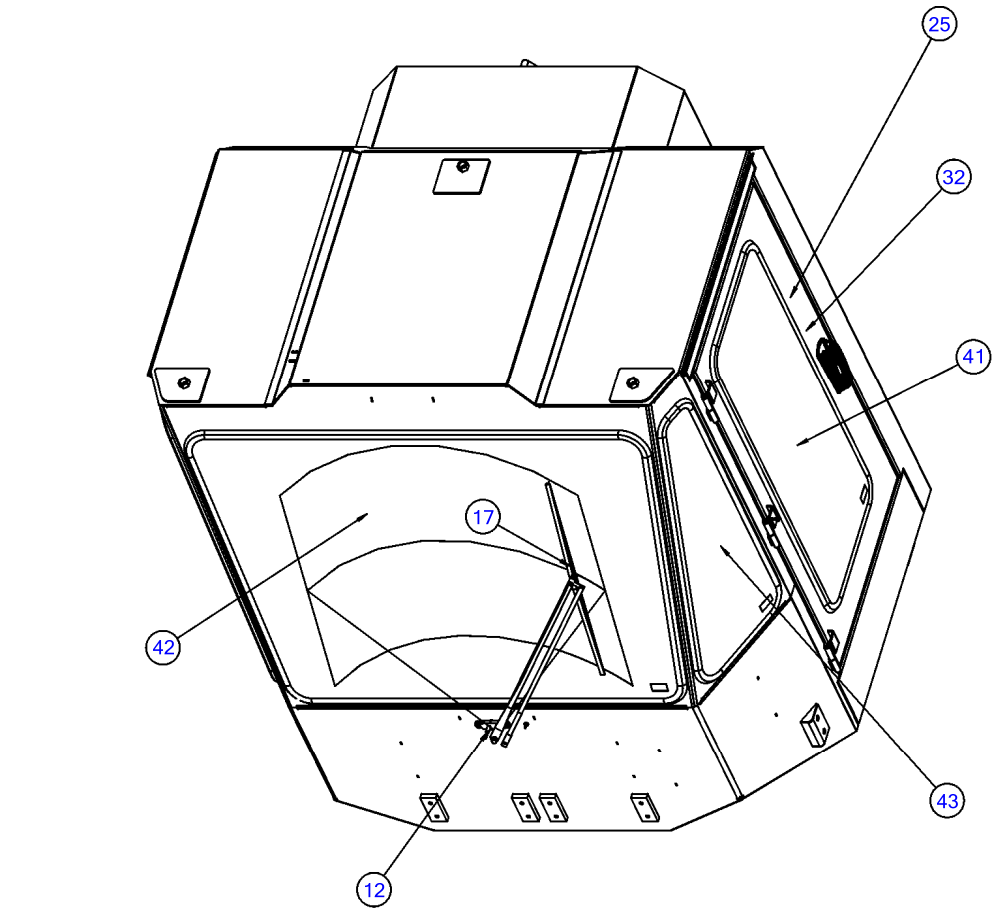


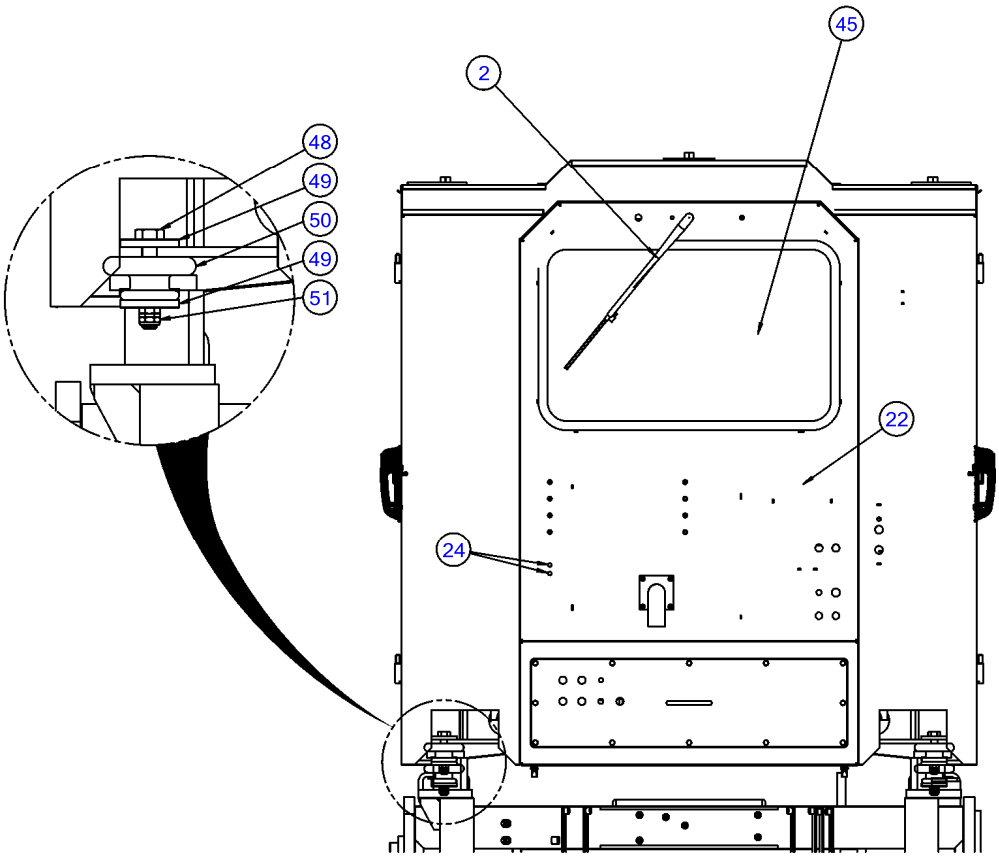
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CAB ASSEMBLY





TA15454b

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4264171	1	CAB ASSEMBLY, LINCS II		2/8/19
1	R4268349	2	· STRAP, DOOR HOLDER		2/10/10
2	R4268350	1	· WIPER ARM, REAR		2/10/10
	R4268528	1	· WIPER BLADE, REAR		2/10/10
3	R4268351	2	· BALL STUD, GAS SPRING CYLINDER		2/10/10
4	R4268352	8	· SEAL STRIP, RUBBER		2/10/10
5	R4268353	2	· GAS SPRING CYLINDER		2/10/10
6	R4268354	2	· STRAP, TETHER		2/10/10
7	R4268355	2	· STRIKER STUD & WASHER		2/10/10
8	R4268356	15	· TRIM EDGE, PVC		2/10/10
9	R4268357	2	· SWITCH, DOME LIGHT		2/10/10
10	R4268358	16	· NUT, U-CLIP		2/10/10
11	R4268359	1	· WIPER SHAFT ASSEMBLY, FRONT		2/10/10
12	R4268494	1	· PANTOGRAPHIC ADAPTER		2/10/10
13	R4268495	1	· SEAL STRIP, RUBBER		2/10/10
14	R4268496	30	· SEAL, DOOR		8/3/10
15	R4268497	1	· WIPER MOTOR, REAR		2/10/10
16	R4268498	4	· FASTENER		2/10/10
17	R4268499	1	· WIPER BLADE, FRONT		2/10/10
18	R4268500	1	· WIPER MOTOR, FRONT		2/10/10
19	R4268501	1	· WIPER DRIVE ARM, FRONT		2/10/10
	R4279011		· WIPER ARM, FRONT		6/30/14
NS	R4222234	REF	· SPRAYER NOZZLE KIT		6/30/10
20	R4268502	1	· FLOOR MAT		2/10/10
21	R4268503	4	· HANDLE, PULL POCKET		2/10/10
22	R4268480	1	· A/C AND HEATER ASSEMBLY		2/10/10
23	R4268504	1	· COAT HOOK, PLASTIC		2/10/10
24	R4268505	2	· WIPER COWL FITTING		2/10/10
25	R4268506	1	· DOOR ASSEMBLY, L.H.		2/10/10
26	R4268507	1	· HANDLE, INTERIOR L.H.		2/10/10
27	R4268508	1	· HANDLE, PULL		2/10/10
28	R4268509	1	· GASKET, PULL HANDLE		2/10/10
29	R4268510	1	· DOOR ASSEMBLY, R.H.		2/10/10
30	R4268511	1	· HANDLE, INTERIOR R.H.		2/10/10
31	R4245974	2	· LIGHT ASSEMBLY, LED - WHITE		
32	R4268512	1	· DOOR STRUCTURE, L.H.		2/10/10
33	R4268513	1	· DOOR STRUCTURE, R.H.		2/10/10
34	R4268514	1	· CONTROL PANEL ASSEMBLY (PAGE 5.82-5.82A)		2/10/10
35	R4268515	1	· CONTROL PANEL STRUCTURE		2/10/10
36	R4268516	1	· DASH PANEL, CENTER		2/10/10
37	R4268517	1	· DASH PANEL, RIGHT		2/10/10
38	R4268518	1	· DASH PANEL, LEFT		2/10/10
39	R4268519	1	· CEILING PANEL ASSEMBLY, R.H.		2/10/10
40	R4268520	1	· CEILING PANEL STRUCTURE, R.H.		2/10/10
41	R4268521	2	· GLASS, DOOR		2/10/10
	R4279019	2	· RUBBER, DOOR GLASS		6/30/14
42	R4268522	1	· GLASS, FRONT		2/10/10
	R4279016	1	· RUBBER, FRONT GLASS		6/30/14
43	R4268523	2	· GLASS, SIDE		2/10/10
	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		2/10/10
	R4279018	1	· RUBBER, REAR GLASS		6/30/14
46	R4268526	1	· CEILING PANEL STRUCTURE, L.H.		2/10/10
47	R4268527	1	· CEILING PANEL STRUCTURE, CENTER		2/10/10
			NOTE:		
		REF	· FOR MORE CAB INTERIOR PARTS SEE PAGE 5.82-5.82A		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			NOTE:		
			· FOR OPERATOR TRAINING SEAT AND MOUNT ASSEMBLY SEE PAGE 9.116		
	R4258777	1	CAB INSTALLTION GROUP		
48	R4009830	4	· BOLT, 3/4"-16 X 4-1/2"		11/11/11
49	R0711602	8	· FLATWASHER, 3/4" I.D. X 3" O.D. X 1/4"		11/11/11
50	R4240736	4	· MOUNT, RUBBER - 1400 LBS LOAD RATING		11/11/11
	R4082921	REF	· MOUNT, RUBBER - 2400 LBS LOAD RATING		11/11/11
51	R4016031	4	· LOCKNUT, 3/4"-16 - NYLON		11/11/11
	R0021549	1	· FLATWASHER, 1/2"		
	R4254322	REF	· FOPS ASSEMBLY	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"		
	R4253967	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	11	· FLATWASHER, 1/4"		
	R0213584	11	· LOCKWASHER, 1/4"		
	R0810986	7	· BOLT, 1/4"-20 X 3/4"		
	R0814157	4	· BOLT, 1/4"-20 X 1"		
	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	
	R4133196	REF	FIRE EXTINGUISHER, 20 LB. - ABC DRY	1	

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WHEEL ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4252042		WHEEL ASSEMBLY		2/17/09
1	R4252043	1	· RIM ASSEMBLY, 57" X 47" - RIMEX		
2	R4152660	64	· CAPSCREW, 1"-8 X 4"		
3	R6957197	64	· FLATWASHER, 1" X 2" X 1/4" - HARDENED, SPECIAL		
4	R6945128	1	· CORE HOUSING, LARGE BORE		
	R4231233	REF	VALVE ASSEMBLY	1	2/17/09
	R4231234	REF	· VALVE, STRAIGHT	1	2/17/09
	R4231235	REF	· SPUD, 90 deg.	1	2/17/09
	R4231236	REF	· CAP, VALVE	1	2/17/09
	R4231237	REF	VALVE ATTACHMENT, INFLATOR	1	2/17/09
	R4231172	REF	· ELBOW	1	2/17/09
	R4231173	REF	· VALVE	1	2/17/09
	R4231174	REF	· INFLATOR	1	2/17/09
	R4250758	REF	TIRE, BRIDGESTONE/FIRESTONE - 58/85 X 57, L4, 84PR		

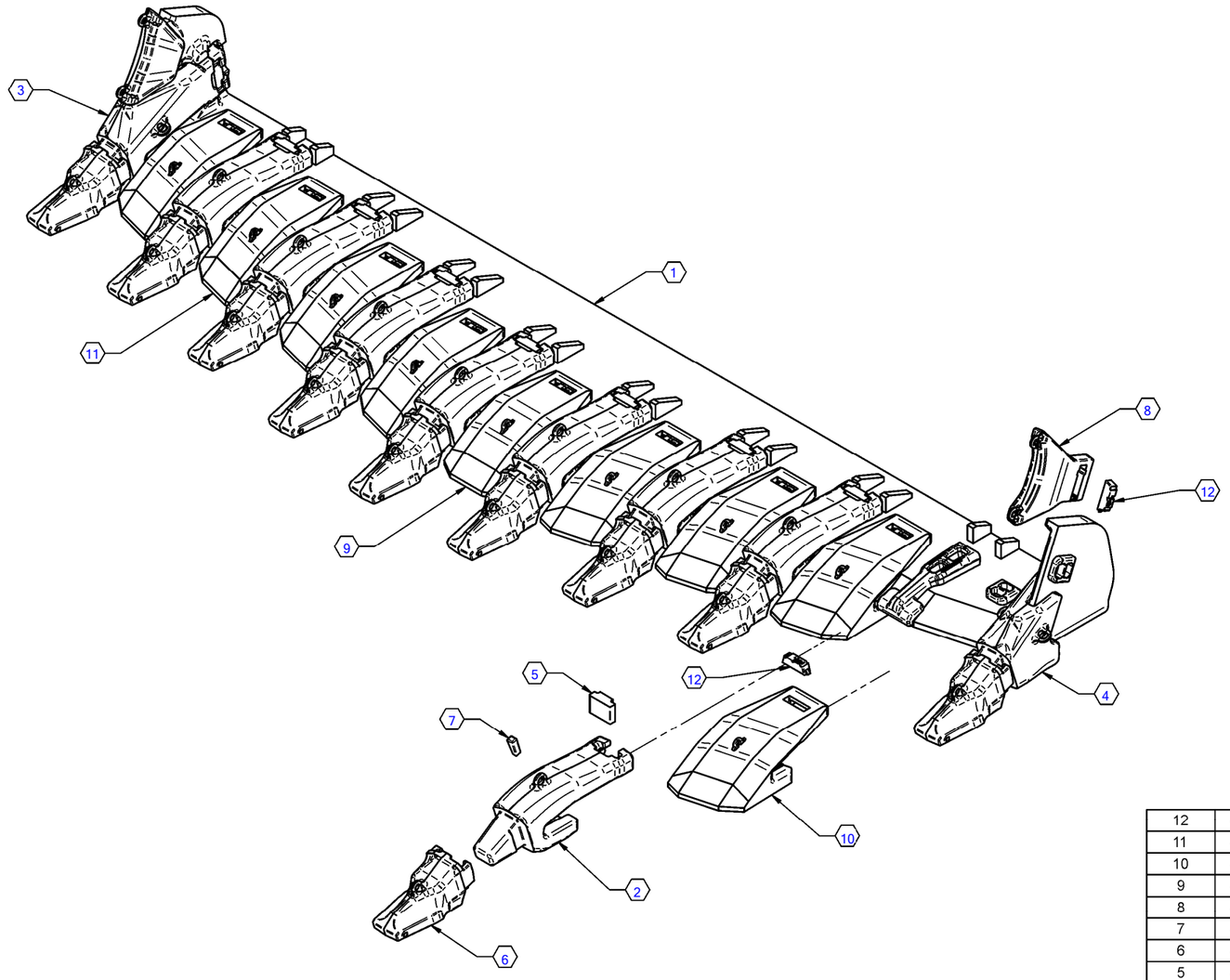
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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BUCKET AND TEETH ASSEMBLY



ITEM	PART NO.	QTY	DESCRIPTION
12	4272246	11	PIN SHROUD TOPLOK
11	4246170	4	SHROUD LIP RH LOADMASTER II
10	4246169	4	SHROUD LIP LH LOADMASTER II
9	4246171	1	SHROUD LIP CTR LOADMASTER II
8	4246172	2	SHROUD WING LOADMASTER II
7	4262731	10	PIN LOCKING ESCO 70SV2PN
6	4272757	10	POINT ESCO 70SV2ADHL
5	4246176	10	ASY PIN T4-PNA
4	4262729	1	ADAPTER COR LH LM2 70SV2
3	4262728	1	ADAPTER COR RH LM2 70SV2
2	4262727	8	ADAPTER CTR LM2 70SV2
1	4262726	1	STR LIP LM2 SV2

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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: 427-2755

		DATE
DWN		
CHK		
ENGR		
PROD ENGR		
PROJ APPROVAL		
MATL	PURCHASED A	

LeTourneau Technologies™

ASY LIP LM2
ESCO 70SV2ADHL

SIZE	DO NOT SCALE	DWG NO	REV
C		4272758	00

SCALE	EST WT	SHEET
1:16	21171.8 lbm	1 OF 1

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BUCKET AND TEETH ASSEMBLY

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BUCKET AND TEETH ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4276480		BUCKET AND TEETH ASSEMBLY		
	R4275851	1	· BUCKET, 24-YD. - LM2 70SV2ADHL		
	R4272758	1	· · LIP ASSEMBLY		
1	R4262726	1	· · · LIP STRUCTURE		
2	R4262727	8	· · · ADAPTER, CENTER		
3	R4262728	1	· · · ADAPTER, CORNER - R.H.		
4	R4262729	1	· · · ADAPTER, CORNER - L.H.		
5	R4246176	10	· · · PIN ASSEMBLY		
6	R4272757	10	· · · TOOTH POINT - 70SV2ADHL		
7	R4262731	10	· · · PIN, LOCKING		
8	R4246172	2	· · · SHROUD, WING		
9	R4246171	1	· · · SHROUD, LIP - CENTER		
10	R4246169	4	· · · SHROUD, LIP - L.H.		
11	R4246170	4	· · · SHROUD, LIP - R.H.		
12	R4272246	11	· · · PIN, SHROUD		
	R4262710	1	· HARDWARE GROUP, LM2 65-70 SV2		
	R0021542	8	· · LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
	R4009522	8	· · BOLT, 3/4"-10 X 1-1/4"		
	R4168170	AR	· · SPACER, 1/8" X 12" X 7"	2	
	R4168171	AR	· · SPACER, 1/4" X 12" X 7"	2	
	R4227982	2	· · STOP PLATE, ROLLBACK - 7" X 12"		
	R4231320	8	· · LOCK, KWIK-LOK II		
	R4234043	8	· · WEAR RUNNER, KWIK-LOK II - GENERAL PURPOSE 4		
	R4234044	1	· · TOOL, REMOVAL - KWIK-LOK II		
	R4246314	2	· · STOP BLOCK		
	R4261058	1	· · TOOL, PIN REMOVAL		
	R4272758	REF	DRAWING, ADAPTER AND BLADE SAVER INSTALLATION (00)		

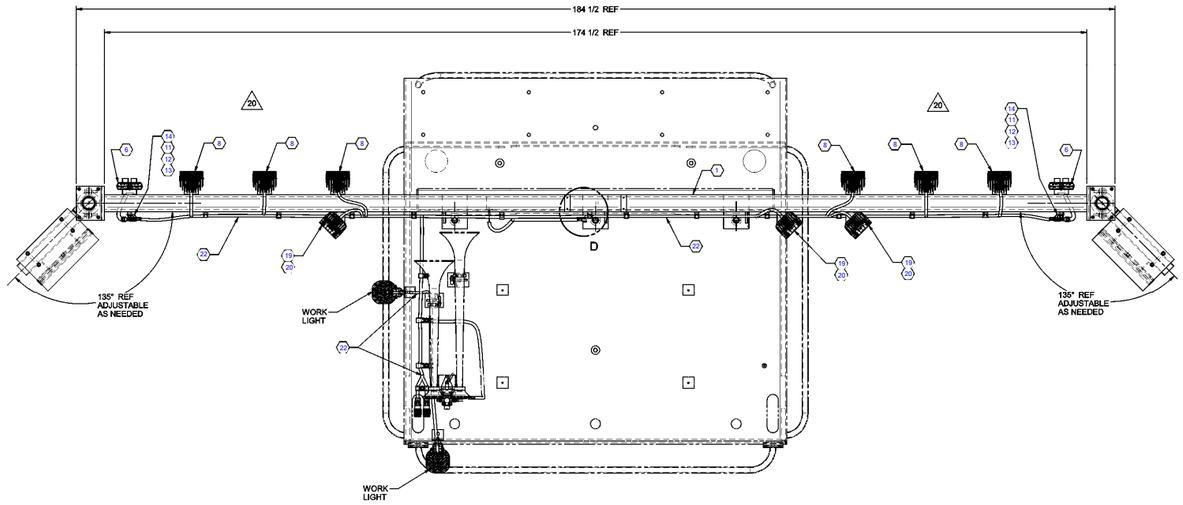
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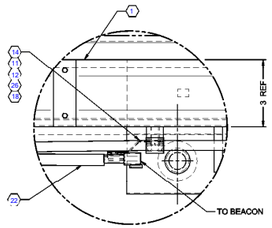
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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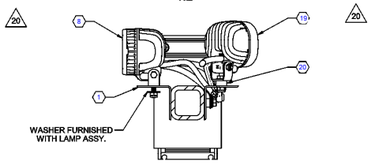
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MIRROR/LIGHT BAR ASSEMBLY

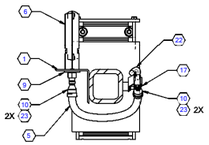




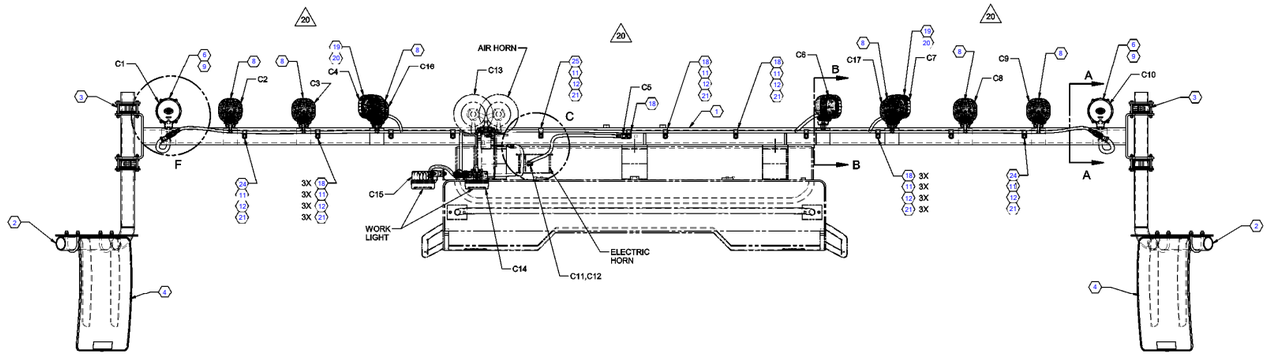
DETAIL D
1:2

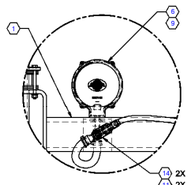


SECTION B-B
1:4



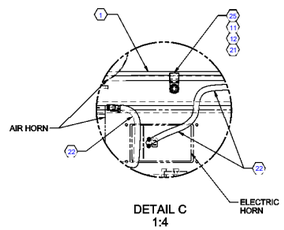
SECTION A-A
1:4





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	0768169	11	BOLT HX .375 .625 NC G8 FT
20	4164792	3	RUBBER BUSHING O.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	0783123	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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- 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
L1850/2350 LINCS II

DWN	2-25-09
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 | WT/FT 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

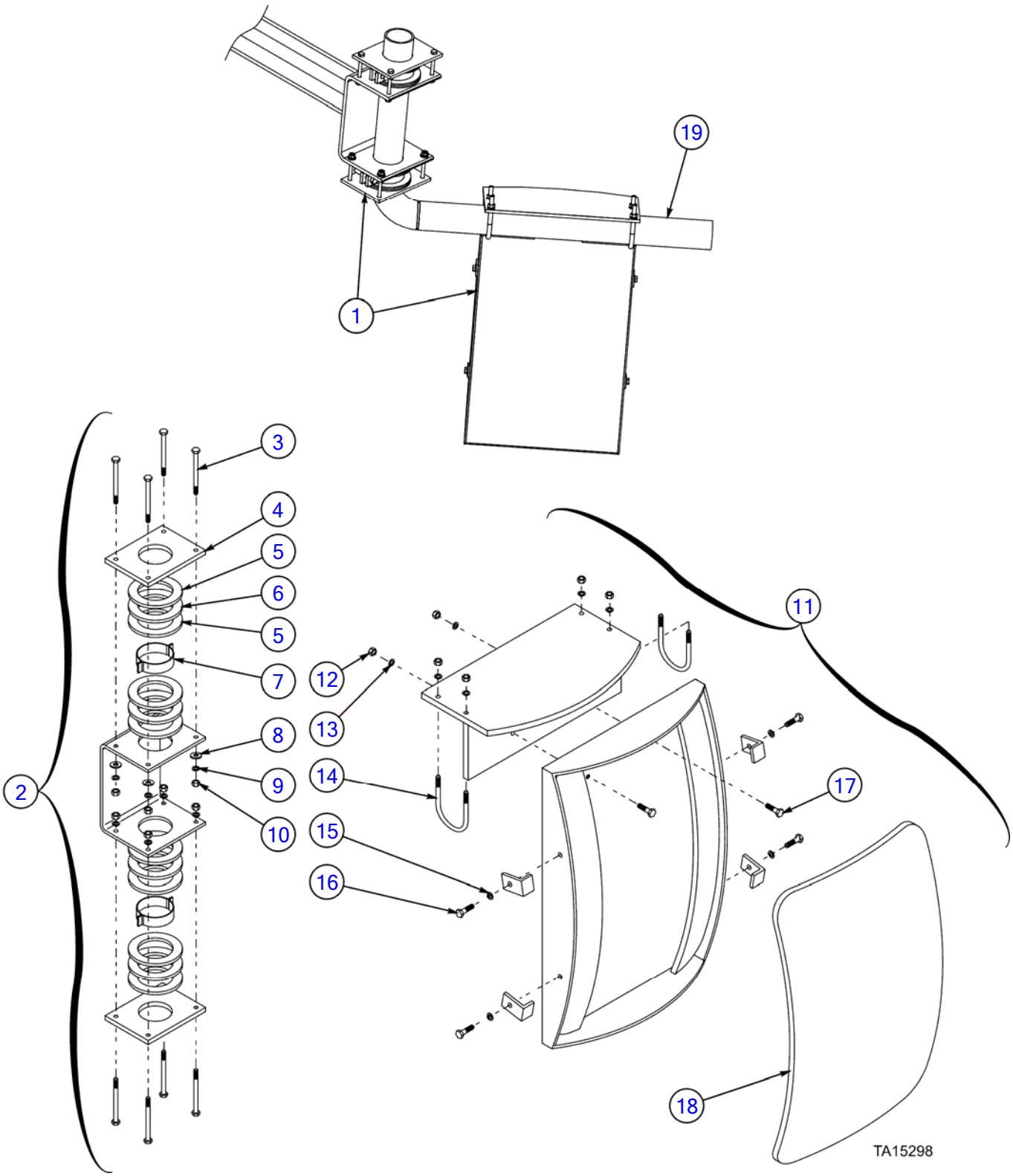
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

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MIRROR ASSEMBLY AND MOUNTING GROUP



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MIRROR ASSEMBLY AND MOUNTING GROUP

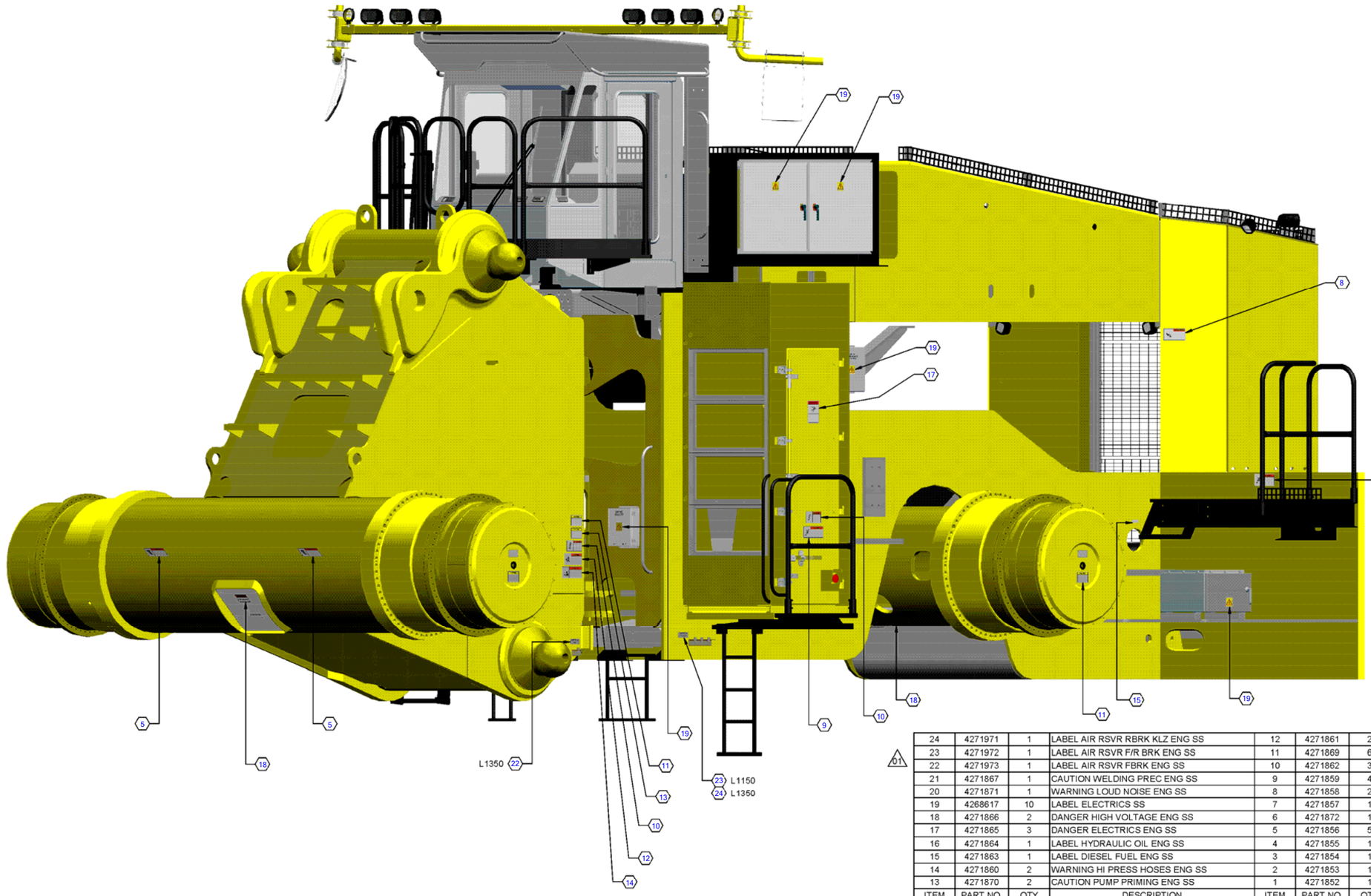
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1	R4163895	2	MIRROR ASSEMBLY AND MOUNTING GROUP		6/19/19
2	R4163894	2	· MOUNTING HARDWARE KIT		
3	R0730503	16	· · BOLT, 1/4"-20 X 2-3/4"		
4	R4250907	4	· · PLATE, HOLD DOWN		
5	R4223407	16	· · RING, FRICTION - STEEL		
6	R4223408	8	· · RING, FRICTION - 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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ITEM	PART NO.	QTY	DESCRIPTION	ITEM	PART NO.	QTY	DESCRIPTION
24	4271971	1	LABEL AIR RSVR RBRK KLZ ENG SS	12	4271861	2	WARNING NO ROOM ENG SS
23	4271972	1	LABEL AIR RSVR F/R BRK ENG SS	11	4271869	6	CAUTION CHECK OIL LEVEL ENG SS
22	4271973	1	LABEL AIR RSVR FBRK ENG SS	10	4271862	3	WARNING RETRACT LADDER ENG SS
21	4271867	1	CAUTION WELDING PREC ENG SS	9	4271859	4	WARNING FALLING HAZARD ENG SS
20	4271871	1	WARNING LOUD NOISE ENG SS	8	4271858	2	WARNING ROTATING FAN ENG SS
19	4268617	10	LABEL ELECTRICS SS	7	4271857	1	WARNING HOT ENGINE COOL ENG SS
18	4271866	2	DANGER HIGH VOLTAGE ENG SS	6	4271872	1	WARNING HAZARDOUS FUMES ENG SS
17	4271865	3	DANGER ELECTRICS ENG SS	5	4271856	5	WARNING CRUSH HAZARD ENG SS
16	4271864	1	LABEL HYDRAULIC OIL ENG SS	4	4271855	1	CAUTION STARTING ENG SS
15	4271863	1	LABEL DIESEL FUEL ENG SS	3	4271854	1	WARNING CAB ENG SS
14	4271860	2	WARNING HI PRESS HOSES ENG SS	2	4271853	1	WARNING PARK BRAKES ENG SS
13	4271870	2	CAUTION PUMP PRIMING ENG SS	1	4271852	1	CAUTION BRAKING NOTE ENG SS

01

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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: LINCS II LOADERS

	DATE
DWN	
CHK	
ENGR	
PROD ENGR	
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

GP SHIP LOOSE LABEL G2 ENG SS

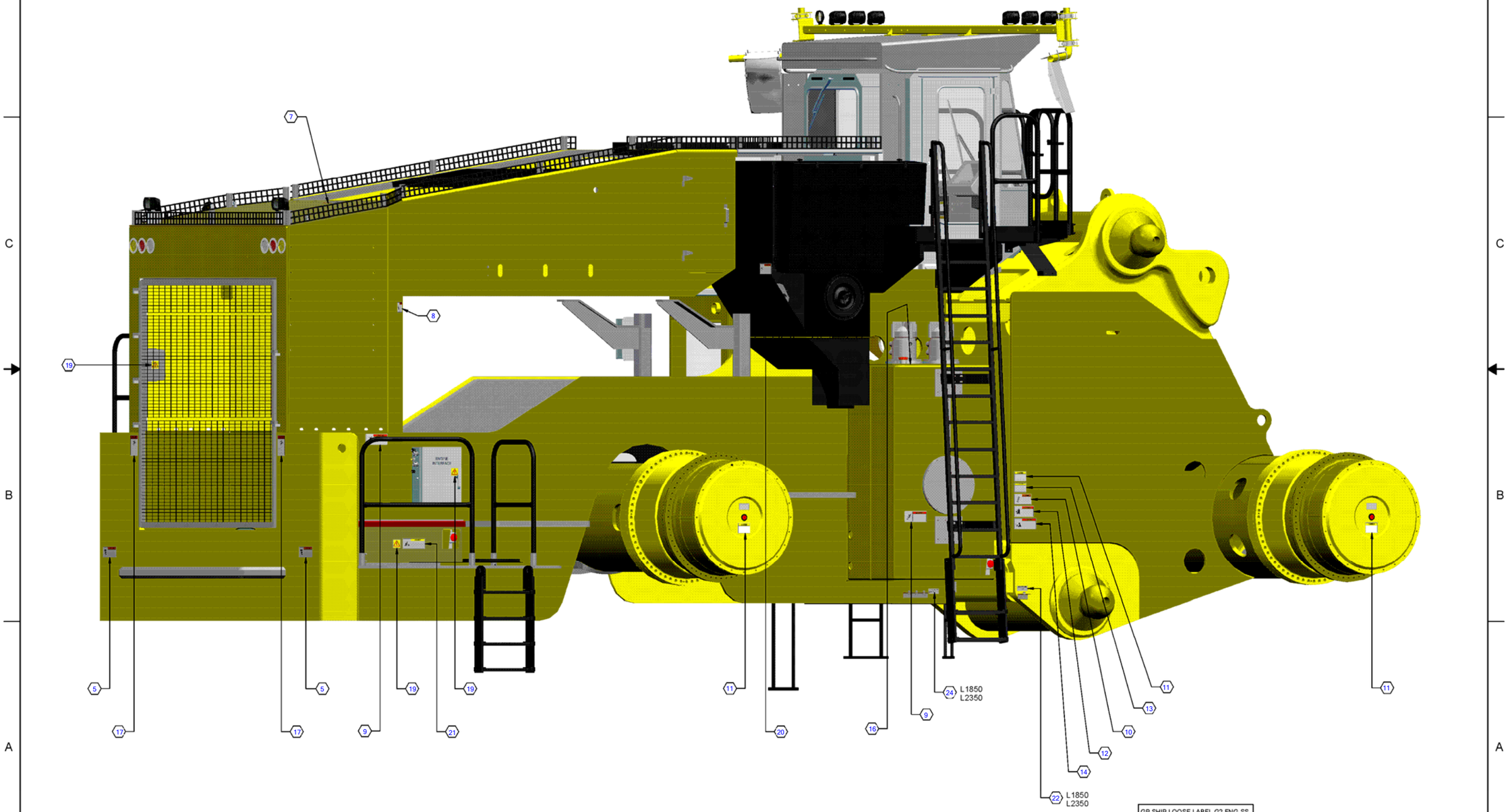
SIZE D | DO NOT SCALE | WO NO. 4271849 | REV. 01

SCALE 1/16 | EST WT. .0 lbm | SHEET 1 OF 3

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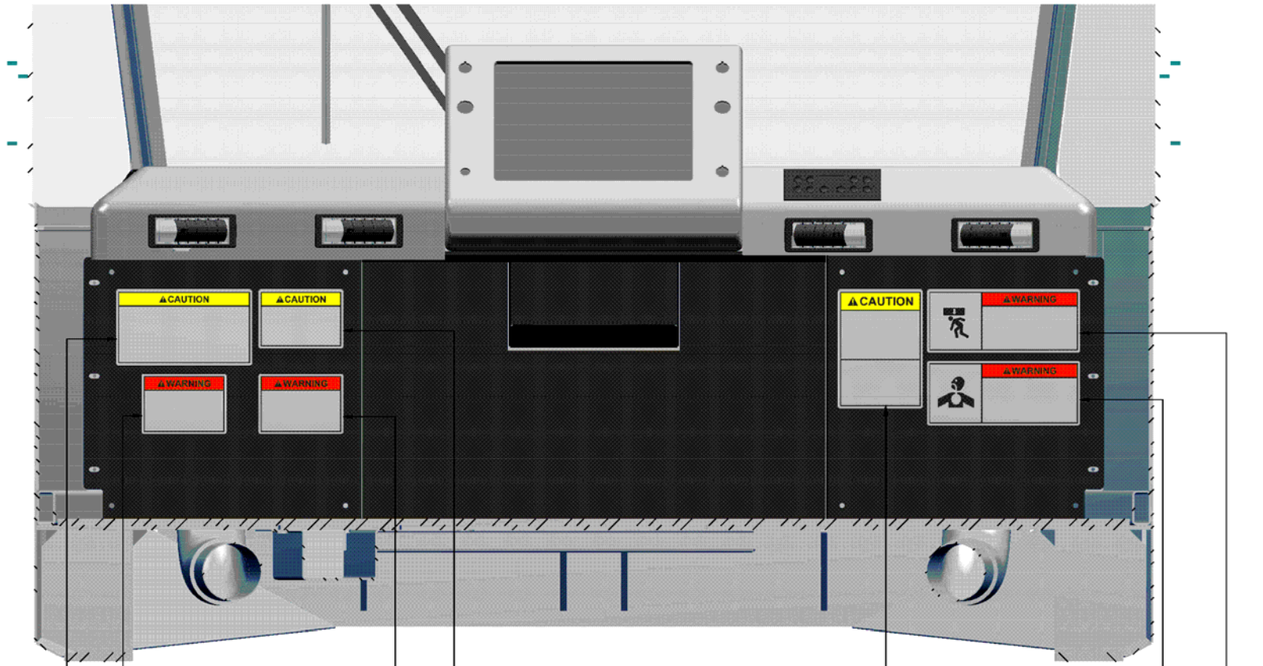


GP SHIP LOOSE LABEL G2 ENG SS	SIZE D	DO NOT SCALE	DWG NO. 4271849 REV 01
DRAWN			
ISSUED	SCALE 1/16	EST WT .0 lbm	SHEET 2 OF 3

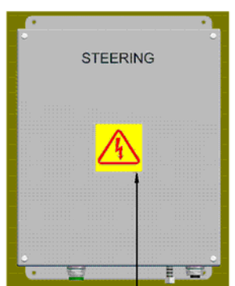
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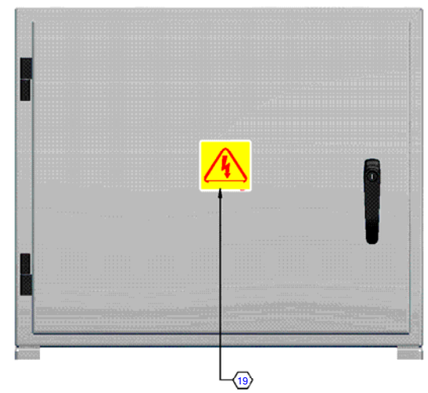
CAB CONSOLE
1:4



1:4



1:4



AIR SYSTEM J-BOX
1:4

GP SHIP LOOSE LABEL G2 ENG SS							
DRAWN	SIZE D	DO NOT SCALE	DWG NO. 4271849	REV 01			
ISSUED	SCALE 1/16	EST WT .0 lbm	SHEET 3 OF 3				

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English

1

⚠CAUTION

DO NOT USE left hand pedal for normal braking.

4271852

2

⚠WARNING

USE OF PARKING BRAKES
- Set the motor brakes for parking and when men are working on the equipment.
- Use only in emergencies for stopping the equipment.

4271853

3

⚠WARNING

NEVER LEAVE OPERATOR'S CAB
- With a load suspended.
- With engine running at high throttle.
- With the park brakes released.

4271854

4

⚠CAUTION

BEFORE STARTING ENGINE:
- Study the controls and operating instructions sections of the service manual.
- Read all safety signs on machine.
- Clear the area of other persons.
- Learn and practice SAFE use of controls before operating.

It is your responsibility to understand and follow the manufacturer's instructions on machine operation and service, and to observe pertinent laws and regulations. The service manual and operator's handbook may be obtained through your equipment dealer.

4271855

5

⚠WARNING

CRUSH HAZARD when raising machine.

Use proper jacks and blocking whenever raising the machine.

Do not use bucket and lift arm hydraulic system to raise front of machine for service or maintenance.

Loss of hydraulic pressure can cause serious injury or death.

4271856

Spanish

1

⚠PRECAUCIÓN

NO USE el pedal lado izquierdo para frenado normal en trabajo.

4271926

2

⚠ADVERTENCIA

USO DE FRENOS DE ESTACIONAMIENTO
- Aplique los frenos mecánicos para estacionar o cuando hayan personas trabajando en la máquina.
- Use solo en casos de emergencias para detener el equipo.

4271926

3

⚠ADVERTENCIA

NUNCA ABANDONE LA CABINA DEL OPERADOR
- Con carga suspendida.
- Con el Motor Diesel corriendo en altas revoluciones.
- Con el freno de estacionamiento liberado.

4271927

4

⚠PRECAUCIÓN

ANTES DE ENCENDER EL MOTOR:
- Estudie las instrucciones de control y operación en el manual de servicio.
- Lea todos los letreros de seguridad de la maquina.
- Despeje el área de otras personas.
- Aprenda y practique el uso SEGURO de los controles antes de la operación.

Es su responsabilidad entender y seguir las instrucciones de fabricante en la operación y servicio de la máquina para observar regulaciones y leyes pertinentes. El manuales de servicio y del operador podrían ser obtenidos a través del representante del equipo.

4271928

5

⚠ADVERTENCIA

RIESGO DE GOLPE Cuando suba a la máquina.

Utilice gatas hidráulicas y bloquee las ruedas cuando se levante la máquina.

No utilice el sistema hidráulico de blade y brazos de levanta para levantar el chasis delantero de la máquina para servicio o mantenimiento.

Fugas de presión hidráulica puede causar serias lesiones o muerte.

4271856

Portuguese

1

⚠PRECAUÇÃO

NÃO USE o pedal esquerdo para frenagem normal.

4271905

2

⚠ADVERTÊNCIA

UTILIZAÇÃO DOS FREIOS DE ESTACIONAMENTO
- Aplique os freios de estacionamento para estacionar e quando o equipamento estiver em manutenção.
- Utilize somente em emergências para parar o equipamento.

4271906

3

⚠ADVERTÊNCIA

NUNCA SAIA DA CABINE DO OPERADOR
- Com a carga elevada.
- Com o motor em alta rotação.
- Com o freio de estacionamento liberado.

4271907

4

⚠PRECAUÇÃO

ANTES DE DAR PARTIDA NO MOTOR:
- Estude a seções de controles e instruções de operação do manual de serviço.
- Leia toda a sinalização de segurança da máquina.
- Afaste outras pessoas da área.
- Aprenda e pratique o uso SEGURO dos controles antes de operar a máquina.

Ésua responsabilidade entender e seguir as instruções do fabricante na operação, manutenção e observar as leis e regulamentos pertinentes, os manuais de serviço e operação da maquina, os quais podem ser obtidos através dos revendedores dos equipamentos.

4271908

5

⚠ADVERTÊNCIA

PERIGO DE ESMAGAMENTO durante o levantamento da máquina.

Use cilindros adequados e bloqueamento sempre que levantar a máquina.

Não use o sistema hidráulico do braço de levantamento e da caçamba para levantar a parte frontal da máquina para serviço ou manutenção.

A perda de pressão hidráulica pode causar ferimentos sérios ou morte.

4271856

Chinese

1

⚠注意

正常制动不要
使用左踏板

4271873

2

⚠警告

停车制动的使用
- 当有人操作机器时　要使用电机制动来停车
- 仅用于紧急情况下停车

4271874

3

⚠警告

以下情况绝对不能离开驾驶室
- 有负载时
- 发动机高怠速
- 泊车制动释放

4271875

4

⚠注意

启动发动机前
- 学习维修手册中的控制和操作指导部分
- 阅读机器上的所有警示
- 清除作业区内的人员
- 操作前学习和练习控制功能的安全使用

操作人员有责任按照厂商的指导操作和维护保养机器并遵守相关的法律法规　维修手册和操作手册　可以通过代理商获得

4271876

5

⚠警告

挤压危险
当举升机器时

举升机器时　必须使用合适的起重设备和垫块

维修服务时不要使用铲斗和大臂的液压系统抬起机器前部

液压系统失压能导致严重伤害或死亡

4271877

TA15503a

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English

6

⚠WARNING

HAZARDOUS FUMES
Diesel engine exhaust.
Avoid breathing engine exhaust fumes.

CALIFORNIA Proposition 65 Warning
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

7

⚠WARNING

HOT ENGINE COOLANT
Steam hazard
Coolant system under pressure

SEVERE BURNS
and injury could occur when removing radiator fill cap or working on hot system

BEFORE WORKING ON COOLANT SYSTEM:
1. Relieve air pressure.
2. Slowly remove fill cap. Protect hands and body if system is hot.
3. Follow procedures in service manual when servicing and repairing coolant system.

8

⚠WARNING

ROTATING FAN

9

⚠WARNING

FALLING HAZARD
Can cause serious injury or death.
ALWAYS face ladder when climbing and going down.
Keep one hand firmly on hand rail or hand hold at all times.

WATCH YOUR STEP
Watch for wind gusts when opening or closing cab door.
Keep steps and platform clean - free of grease, oil, etc.

10

⚠WARNING

LOWER STEPS SLOWLY
Ladder could fall and cause injury.

11

CAUTION

CHECK OIL LEVELS before placing in service.
Follow lubrication instructions in service manual for servicing primary and secondary reductions.

Spanish

6

⚠ADVERTENCIA

HUMOS PELIGROSOS
Eases de emisión del motor diesel.
Evite la inhalacón.

7

⚠ADVERTENCIA

REFRIGERANTE DE MOTOR CALIENTE
Riesgo de vapor.
Sistema de enfriamiento con presión.

QUEMADURAS SEVERAS
Y heridas podrían ocurrir cuando se remueve la tapa de llenado del radiador o trabajando con el sistema caliente.

ANTES DE TRABAJAR EN EL SISTEMA DE ENFRIAMIENTO:
1. Libere la presión de aire.
2. Lentamente remueva la tapa de llenado. Proteja manos y cuerpo si el sistema está caliente.
3. Siga el procedimiento del manual de servicio nuevado está rellenando o trabajando en el sistema de enfriamiento.

8

⚠ADVERTENCIA

VENTILADOR GIRANDO A ALTA VELOCIDAD

9

⚠ADVERTENCIA

RIESGO DE CAIDA
Puede causar serios daños o muerte.
SIEMPRE mire hacia la escalera cuando suba y baje.
Mantenga una mano firmemente en el pasamano o sujete una mano todo el tiempo.

MIRE POR DONDE CAMINA
Observe si hay ráfagas de viento cuando abra o cierre la puerta de la cabina.
Mantenga peldaños y pasillo limpio - libres de grasas, aceites, etc.

10

⚠ADVERTENCIA

BAJE LOS PELDAÑOS LENTAMENTE
La escalera podría caer y causar daños.

11

PRECAUCIÓN

REVISE LOS NIVELES DE ACEITE
Antes de poner la máquina en servicio.
Siga las instrucciones de lubricación del manual de servicio para revisión o mantenimiento de las reducciones primaria y secundaria.

Portuguese

6

⚠ADVERTÊNCIA

FUMOS TÓXICOS
Escapamento de motor Diesel.
Evite inalar fumaça de escapamento de motores.

Proposição 65 CALIFORNIA Advertência
A fumaça da exaustão de motores Diesel e alguns dos seus constituintes são conhecidos no Estado da Califórnia como causadores de câncer, defeitos congênitos e outros problemas de reprodução.

7

⚠ADVERTÊNCIA

ADITIVO PARA RADIADOR QUENTE
Perigo de vapor.
Sistema de arrefecimento sob pressão.

QUEIMADURAS SEVERAS e ferimentos podem ocorrer na remoção da tampa de enchimento do radiador ou trabalhar com o sistema quente

ATES DE TRABALHAR NO SISTEMA DE ARREFECIMENTO
1. Alivie a pressão de ar.
2. Remova a tampa lentamente. Proteja mãos e corpo se o sistema ainda estiver quente.
3. Siga os procedimentos do manual de serviços quando trabalhar ou reparar o sistema de arrefecimento

8

⚠ADVERTÊNCIA

VENTILADOR EM ROTAÇÃO

9

⚠ADVERTÊNCIA

PERIGO: cair pode causar sérios ferimentos ou morte.
SEMPRE olhe a escada quando estiver subindo ou descendo da máquina.
Sempre mantenha uma mão firme no corrimão.

CUIDADO ONDE PISA.
Observe os ventos fortes quando abrir ou fechar a porta da cabine.
Mantenha os degraus e plataformas limpas, sem óleo ou graxas.

10

⚠ADVERTÊNCIA

DESÇA OS DEGRAUS LENTAMENTE
A escada pode cair e causar ferimentos.

11

PRECAUÇÃO

VERIFIQUE OS NÍVEIS DE ÓLEO antes de colocar em serviço.
Siga as instruções de lubrificação do manual de serviço para manutenção das reduções primária e secundária.

Chinese

6

⚠ 警告

柴油发动机排出气体有害

避免吸入发动机排出气体

加利福尼亚提议 65# 警告
柴油发动机排出气体和其中所含的一些成分在加利福尼亚州被认为能够致癌 引起先天缺陷和其他一些生殖危害

7

⚠ 警告

发动机高温冷却液和蒸汽烫伤危险
发动机冷却液有压力

打开散热器盖或在热的系统上工作可能导致严重烧伤

在冷却系统工作前必须
1. 加压
2. 缓慢打开散热器盖 如果系统热 保护好手和身体
3. 按照维修手册规定的程序进行冷却系统的保养和维护

8

⚠ 警告

旋转风扇

9

⚠ 警告

跌到危险
能导致严重人身伤亡
上下阶梯时一定面向梯子
时刻保持有一只手握紧扶手

小心脚下
开关驾驶室门时注意突然的强风
保持台阶和平台干净无油脂等污物

10

⚠ 警告

缓慢放下梯子至低位有可能落下造成伤害

11

注意

维护前请检查油位　按服务手册内的润滑指示维护一级和二级减速齿轮

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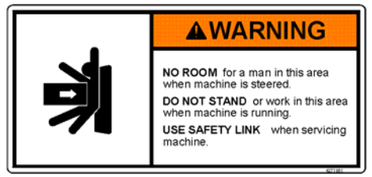
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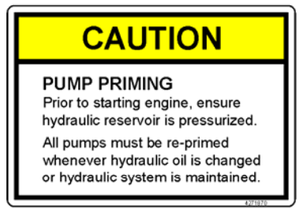
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English

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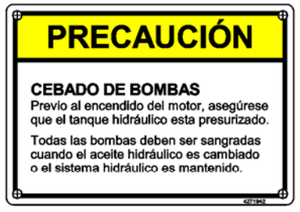


Spanish

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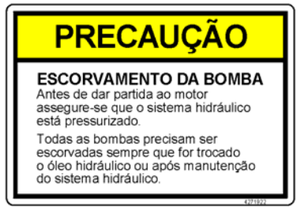


Portuguese

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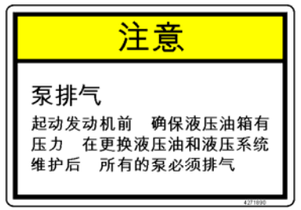


Chinese

(12)



(13)



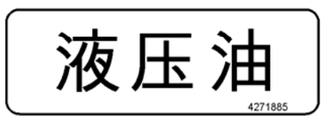
(14)



(15)



(16)



(17)



TA15503c

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IDENTIFICATION AND SAFETY LABEL GROUP

English

18

DANGER

750 VOLTS

19



20

WARNING

SUDDEN LOUD NOISE can occur.
WATCH OUT for lying debris
ISOLATE BATTERIES before servicing air filters.

21

CAUTION

WHEN WELDING the following must be done to avoid damage to the electronic controls or the engine.

- Both the POSITIVE (+) and NEGATIVE (-) battery leads must be disconnected before welding.
- Ground cable must be in close proximity to welding location - engine must never be used as a grounding point.
- Welding on the engine or engine mounted components is NEVER recommended.

22

AIR RESERVOIR BLEED

Front Brake

4271973

23

AIR RESERVOIR BLEED

Distribution	Front Brake	Rear Brake

4271972

24

AIR RESERVOIR BLEED

Distribution	Rear Brake	KLENZ

4271971

Spanish

18

PELIGRO

750 VOLTIOS

19



20

ADVERTENCIA

RUIDO FUERTES y REPENTINO puede ocurrir.
CUIDADO con esquirlas o basuras proyectadas.
AISLAR BATERIAS antes de revisar o hacer mantenimiento a los filtros de aire.

21

PRECAUCIÓN

CUANDO SUELDEN debe hacer lo siguiente para evitar daño a controles electrónicos o al motor:

- Ambos terminales positivo (+) y negativo (-) de la batería deben estar desconectados antes de soldar.
- El cable a tierra debe estar próximo a la zona donde se está soldando - el motor diesel nunca debe usarse como punto de tierra.
- Soldar en el motor diesel o en sus componentes de montaje NO ES RECOMENDADO.

22

ALIVIO DE AIRE

Frenos Delantero

4275272

23

ALIVIO DE AIRE

Distribución	Frenos Delantero	Frenos Trasero

4275271

24

ALIVIO DE AIRE

Distribución	Frenos Trasero	KLENZ

4275270

Portuguese

18

PERIGO

750 VOLTS

19



20

ADVERTÊNCIA

RUÍDO ALTO E SÚBITO pode ocorrer
OBSERVE a existência de detritos no ar.
DESCONECTE AS BATERIAS quando fizer a manutenção dos filtros de ar.

21

PRECAUÇÃO

QUANDO SOLDAR as seguintes ações devem ser tomadas para evitar danos nos ECM(s) e componentes eletrônicos:

- Desconecte ambos cabos da bateria (+) & (-) antes de soldar.
- Conecte um cabo terra próximo ao local a ser soldado, o motor não deve ser usado como conexão a terra.
- Solda no motor ou seus componentes não são recomendados.

22

DRENO DO RESERVATÓRIO DE AR

Freio Dianteiro

4271979

23

DRENO DO RESERVATÓRIO DE AR

Distribuição	Freio Dianteiro	Freio Traseiro

4271978

24

DRENO DO RESERVATÓRIO DE AR

Distribuição	Freio Traseiro	KLENZ

4271977

Chinese

18

危险

750 伏高压电

19



20

警告

可能突然出现巨大的噪音
小心飞出的污物
检修空气过滤器前 断开电源

21

注意

当焊接时
为了避免对电子器件和发动机造成损害
必须按照如下步骤操作

- 焊接前 电池的正负极必须断开
- 地线必须靠近焊接点 发动机不能用作接地点
- 不建议在发动机和发动机安装组件上焊接

22

空压容器释压

前刹车

4271976

23

空压容器释压

分配	前刹车	后刹车

4271975

24

空压容器释压

分配	后刹车	KLENZ

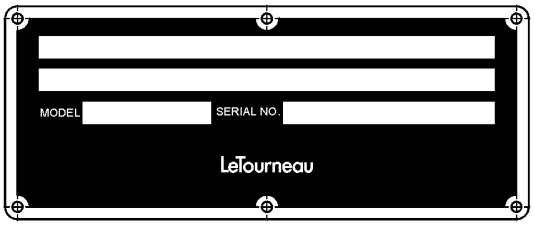
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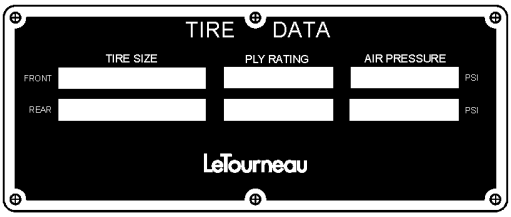
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All Languages

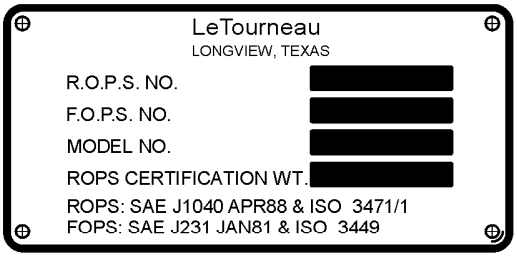
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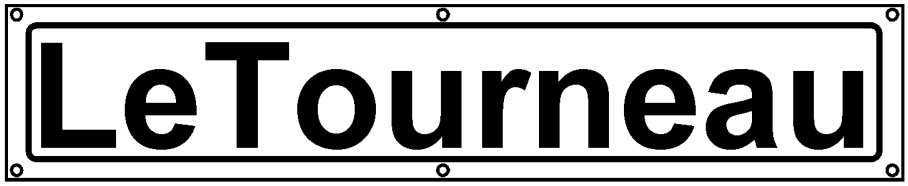
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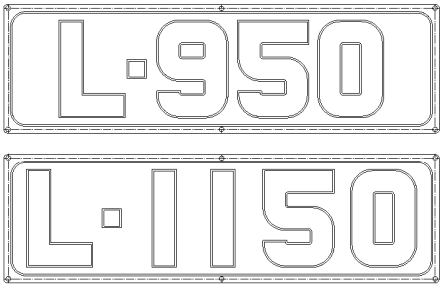
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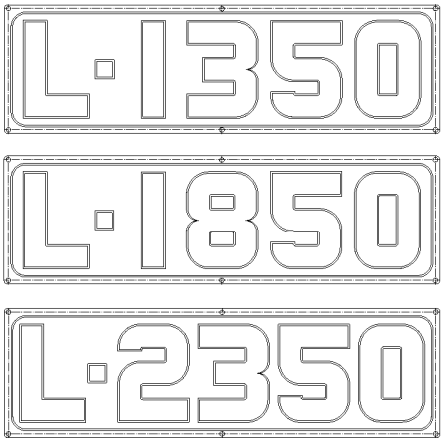


28



29





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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4266339		IDENTIFICATION AND SAFETY LABEL GROUP		
	R4271849		· DRAWING, LABEL GROUP, GEN2 (01)		
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	5	· · LABEL, SAFETY - CRUSH HAZARD - S.S.		
6	R4271872	1	· · LABEL, SAFETY - HAZARDOUS FUMES - S.S.		
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	10	· · 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	R4169562	1	· PLATE, MODEL/SERIAL NUMBER		
26	R4169563	1	· PLATE, TIRE DATA		
27	R4227839	1	· PLATE, ROLL BAR APPROVAL		
28	R4237808	1	· PLACARD, LETOURNEAU NAME - 54" X 8-3/8"		
	R4253979	1	· PLACARD, LETOURNEAU NAME - 42" X 7-1/4"		
29	R4248440	2	· PLACARD, L-1850		
			·		
	R4271965	1	· LABEL, BRAKE SPECIFICATION - L-1850 - S.S.		
	R4271849	REF	DRAWING, LABEL GROUP, GEN2 (01)		

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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
	R4264672		PAINT GROUP		12/10/12
1	R4264671	10	· PAINT, WHITE LET		12/10/12
2	R4264673	120	· PAINT, YELLOW LET		12/10/12
3	R4264675	50	· PAINT, FLAT BLACK		12/10/12
4	R4264676	150	· PRIMER, SHALE GRAY		12/10/12
5	R4272806	25	· PAINT, GLOSS BLACK		12/20/11
6	R4264678	REF	PAINT, YELLOW - SPRAY CAN		6/29/09

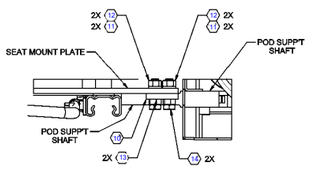
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

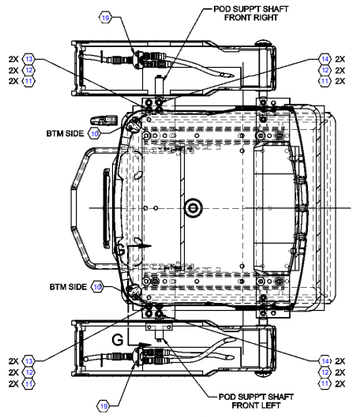
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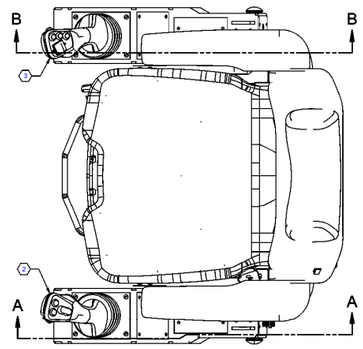
OPERATOR'S SEAT ASSEMBLY



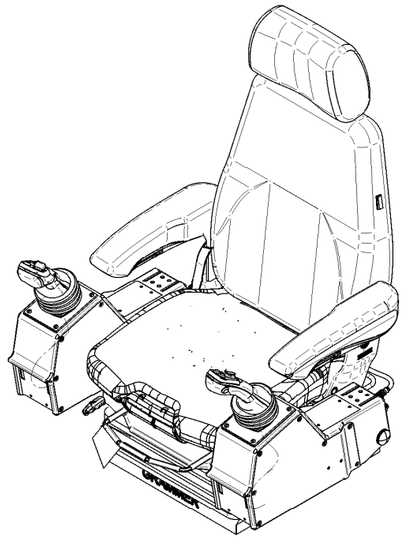
SECTION G-G
1:2
ROTATED 90 DEG CW



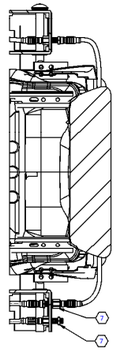
SECTION F-F



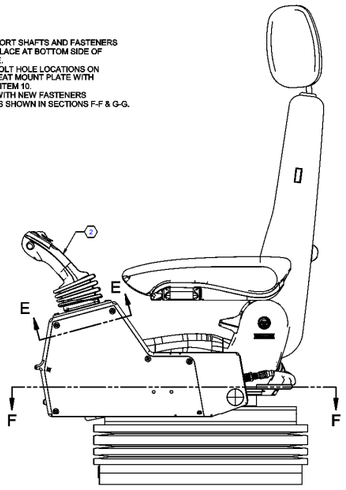
NOTES:
1. REMOVE POD SUPPORT SHAFTS AND FASTENERS AT CONSOLE AND PLACE AT BOTTOM SIDE OF SEAT MOUNT PLATE.
2. LOCATE AT SAME BOLT HOLE LOCATIONS ON BOTTOM SIDE OF SEAT MOUNT PLATE WITH NEW STOP PLATES ITEM 10.
3. SECURE IN PLACE WITH NEW FASTENERS ITEMS 11,12,13,14 AS SHOWN IN SECTIONS F-F & G-G.

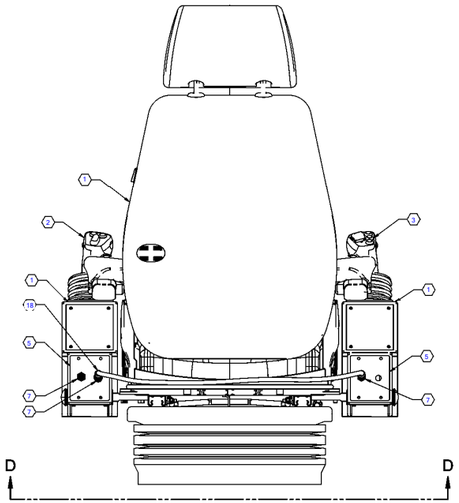


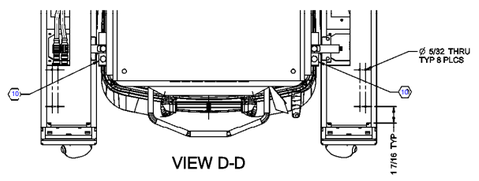
ISOMETRIC VIEW



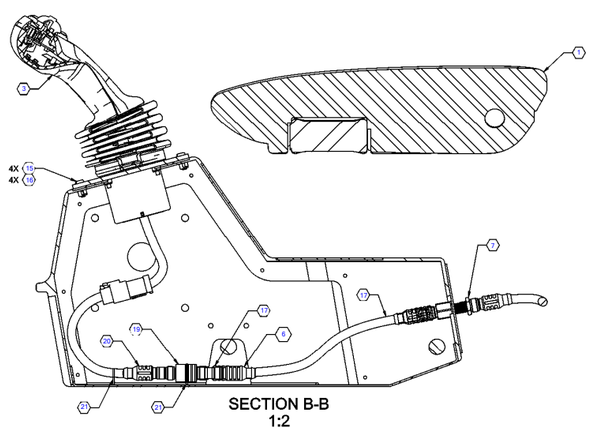
SECTION C-C
ROTATED 10° CW



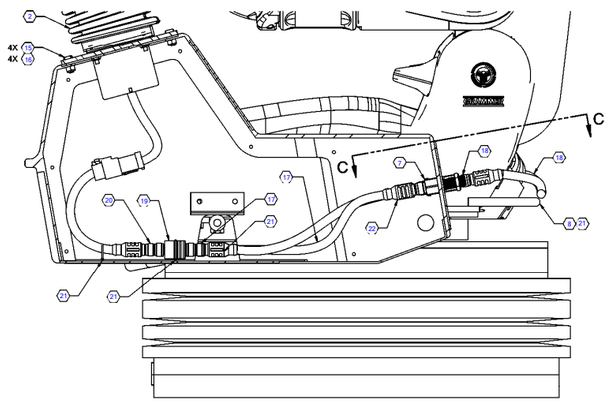




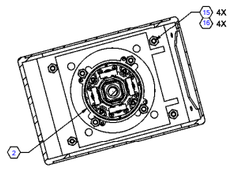
VIEW D-D



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 0.8M
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 1200048LTI

07

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INTERPRET DIM & TOL PER LETOURNEAU SPEC: 9005.04.

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 .1/64 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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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4267775		OPERATOR'S SEAT ASSEMBLY - LINCS II		7/16/18
1	R4264105	1	· SEAT, AIR SUSPENSION		
	R4267779	1	· · SEAT BELT - 4-POINT HARNESS		
	R4238113	REF	· · SEAT BELT - RETRACTABLE (OPTIONAL)		4/5/18
	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
	R4271903	REF	LABEL, LOADER JOYSTICK FUNCTION - LEFT AND RIGHT - SPANISH	1	2/8/12

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	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-1850-2210 PARTS MANUAL
Power Unit Components

SECTION OR GROUP TITLE
POWER UNIT INSTALLATION
BLOWER AND AIR CLEANER ASSEMBLY
FUEL 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
GEARBOX AND PUMPS
GEARBOX AND DRIVE ADAPTERS ASSEMBLY
HYDRAULIC GEARBOX ASSEMBLY
AIR COMPRESSOR
GEARBOX BREATHER SYSTEM
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

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.

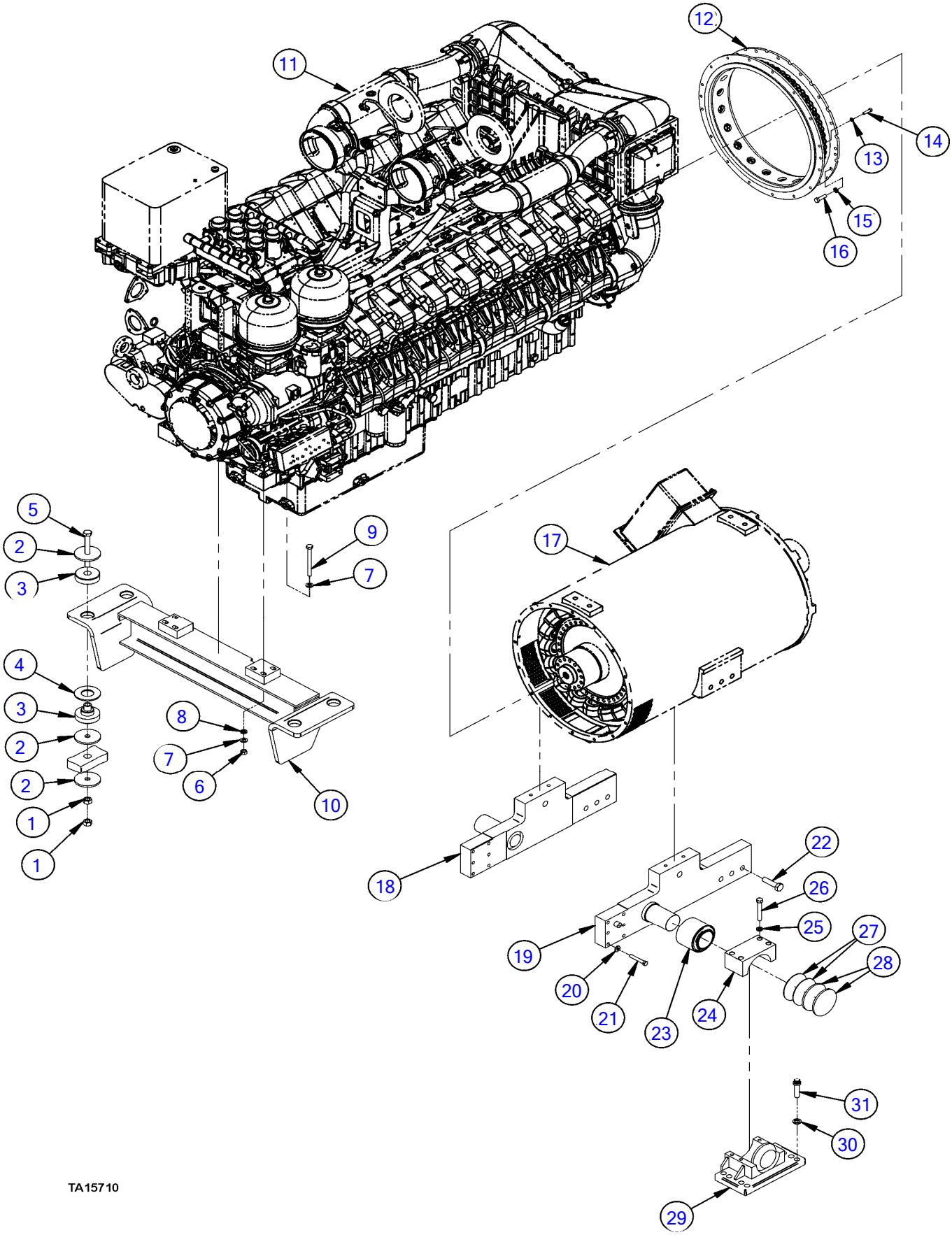
Should there be questions or need for additional information concerning parts for factory-installed options, contact the Komatsu Parts Sales Department before placing an order.

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POWER UNIT INSTALLATION



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4275028		POWER UNIT INSTALLATION		3/8/13
1	R0271988	8	· NUT, 1"-8		
2	R4240788	12	· FLATWASHER, 1" I.D. X 5-1/4" O.D. X 3/8"		
3	R4259875	4	· MOUNT, RUBBER		
4	R4241984	4	· FLATWASHER, 2-1/2" I.D. X 5-1/4" O.D. X 1/4"		
5	R4240789	4	· BOLT, 1"-8 X 8-1/2"		
6	R0021527	6	· NUT, 3/4"-10		
7	R4016046	12	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		
8	R0131167	6	· LOCKWASHER, 3/4" - HEAVY		
9	R4172139	6	· BOLT, 3/4"-10 X 7-1/2"		
10	R4272138	1	· MOUNT STRUCTURE, ENGINE - FRONT		
11	R4257038	1	· ENGINE, DD 16V4000, 2000 HP, T2		3/8/13
	R4271393	1	· · ADAPTER, FLYWHEEL		
12	R4275029	1	· ADAPTER PLATE, GENERATOR		
13	R0801181	16	· LOCKWASHER, 1/2"		
14	R4237738	16	· BOLT, 12 MM X 1.75 X 30.00		
15	R0131165	16	· LOCKWASHER, 5/8"		
16	R0021631	16	· BOLT, 5/8"-11 X 2-1/4"		
17	R4264703	1	· SR G200 GENERATOR ASSEMBLY		
18	R4275026	1	· MOUNT STRUCTURE, ENGINE & GENERATOR - L.H.		
19	R4275025	1	· MOUNT STRUCTURE, ENGINE & GENERATOR - R.H.		
20	R4233766	12	· FLATWASHER, 5/8"		
21	R4272129	12	· BOLT, 16 MM X 100 X 2.00		
22	R0021670	6	· BOLT, 1"-8 X 4"		
23	R4163582	2	· BUSHING, MOUNT		
24	R4161145	2	· CAP, MOUNT		
25	R0021542	8	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
26	R0021656	8	· BOLT, 3/4"-10 X 5"		
27	R4261482	4	· SHIM, 1/8"		
28	R4161483	4	· SHIM, 3/8"		
29	R4271430	2	· SOCKET MOUNT STRUCTURE, 4-BOLT		
30	R0021544	8	· LOCKWASHER, 1"		
31	R4002144	8	· CAPSCREW, 1"-14 X 3-1/2"		
		REF	DRAWING, ENGINE/GENERATOR MOUNT GROUP (R427502800)		1/17/13

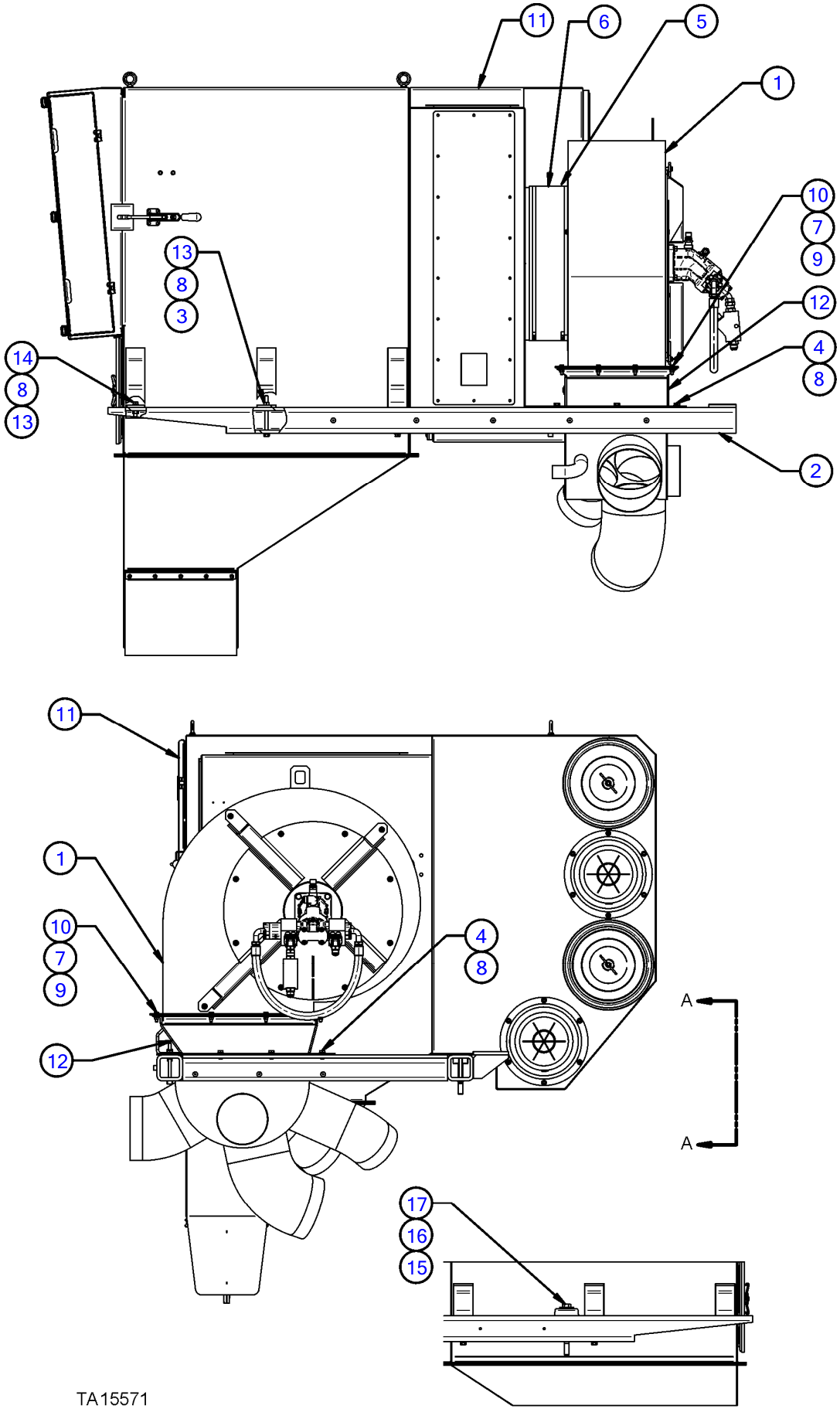
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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BLOWER AND AIR CLEANER ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4272306		BLOWER AND AIR CLEANER ASSEMBLY		5/3/18
1	N.P.N.	1	· BLOWER ASSEMBLY (PAGE 2.14-2.14A)		
2	R4272305	1	· MOUNT STRUCTURE, BLOWER AND AIR CLEANER (SEE NOTE)		5/3/18
3	R4009760	4	· BOLT, 1/2"-13 X 6"		
4	R0801180	10	· BOLT, 1/2"-13 X 1"		
5	R4171318	4	· CLAMP, HOSE - WORM, 13-3/4"		
6	R4227723	1	· DUCT, FLEX - 24" X 7"		
7	R0753123	12	· LOCKWASHER, 3/8"		
8	R0801181	16	· LOCKWASHER, 1/2"		
9	R0812921	12	· NUT, 3/8"-16		
10	R0808476	12	· BOLT, 3/8"-16 X 1-1/4"		
11	R4263017	1	· FILTER ASSEMBLY, AIR CLEANER		
12	R4223232	1	· ADAPTER STRUCTURE, BLOWER		
13	R0808489	6	· NUT, 1/2"-13		
14	R0827222	2	· BOLT, 1/2"-13 X 2"		
15	R4082921	1	· MOUNT, RUBBER - 2400 LBS LOAD RATING		
16	R0711601	1	· FLATWASHER, 3/4" I.D. X 2-1/8" O.D. X 1/4"		
17	R4172139	12	· BOLT, 3/4"-10 X 7-1/2"		
			NOTE:		5/3/18
			· THE ORIGINAL G1 BLOWER AND AIR CLEANER		5/3/18
			· MOUNT STRUCTURE IS R4234308.		5/3/18
		REF	DRAWING, BLOWER AND AIR CLEANER ASSEMBLY (R427230602)		

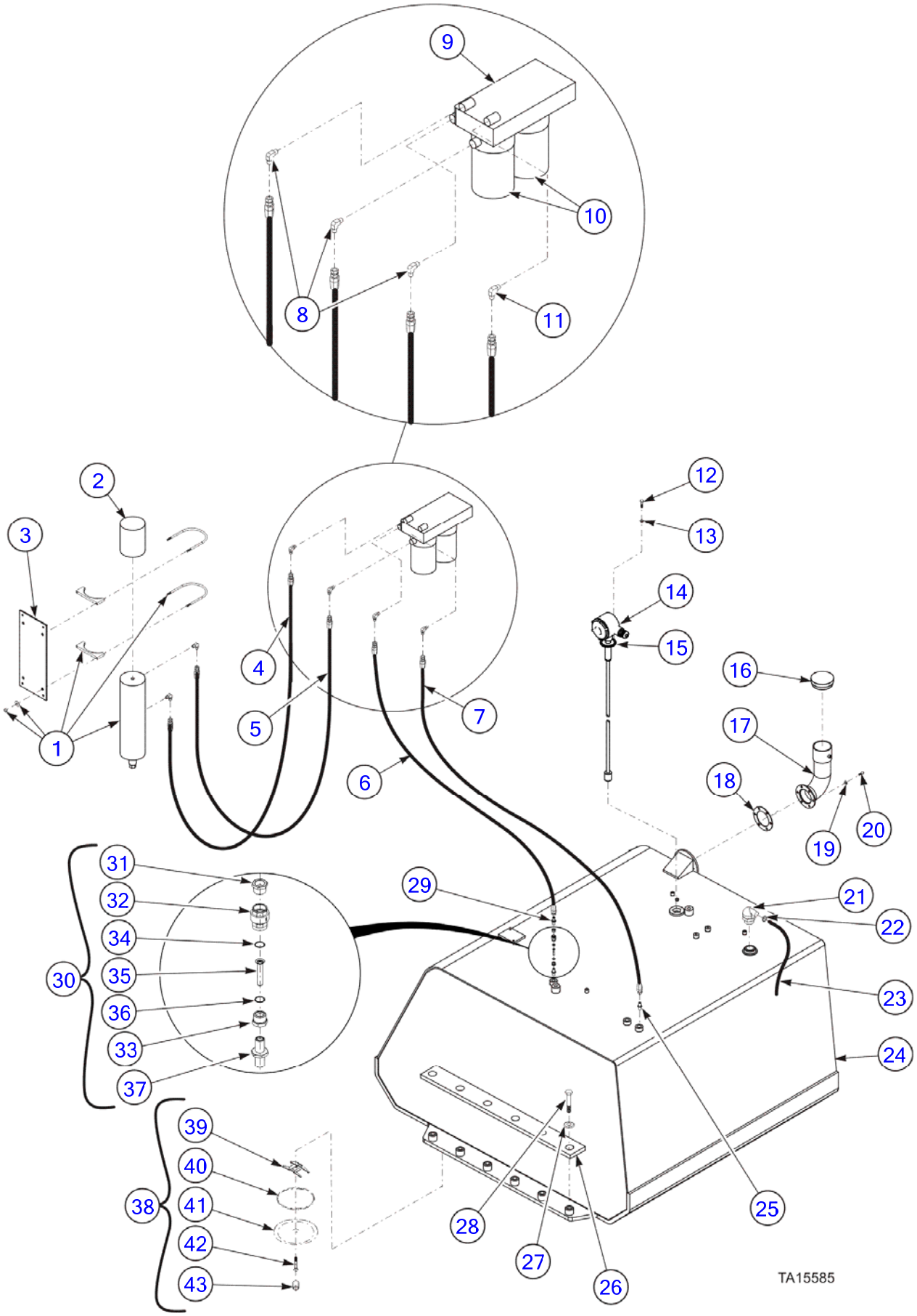
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FUEL SYSTEM



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4272836		FUEL SYSTEM		7/27/15
1	R4236823	REF	· FILTER ASSEMBLY, DAVCO	1	
2	R4236939	REF	· · FILTER, FUEL - SPIN-ON	1	
3	R4233143	1	· MOUNT PLATE, FILTER ASSEMBLY		
4	R6989393	1	· HOSE ASSEMBLY, #16 X 112"		
5	R4186146	1	· HOSE ASSEMBLY, #16 X 118"		
6	R4082841	1	· HOSE ASSEMBLY, #16 X 40"		
7	R4127996	1	· HOSE ASSEMBLY, #12 X 40"		
8	R4002483	3	· ELBOW, #16 FJ X 90 deg. X #16 MJ - SWIVEL		
9	N.P.N.	REF	· FILTER MOUNT (FURNISHED WITH ENGINE)		
10	R4236822	REF	· FILTER, FUEL	2	
11	R4002481	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
12	R0211787	5	· SCREW, #10-32 X 1-1/8"		
13	R4010907	5	· LOCKWASHER, #10		
14	R4270063	REF	· SENDING UNIT, FUEL LEVEL	1	
15	R4224559	1	· GASKET, FUEL SENDING UNIT		
16	R4143852	1	· CAP ASSEMBLY, FUEL		
	R4011648	1	· BREATHER, 1/8" MP - 40 MICRON		2/11/13
17	R4272893	1	· FILLER NECK STRUCTURE, FUEL TANK		
	R4234257	1	· LATCH, FILLER NECK		
18	R4082264	1	· GASKET, FUEL FILLER NECK		
19	R0753123	6	· LOCKWASHER, 3/8"		
20	R0810970	6	· BOLT, 3/8"-16 X 3/4"		
21	R4274877	1	· VENT ASSEMBLY		
22	R0235391	1	· CLAMP, HOSE - WORM, 1-13/16"		2/11/13
23	R4186308	AR	· HOSE, #32		2/11/13
24	R4278100	1	· TANK STRUCTURE, FUEL - 1050 GALLONS		2/11/13
	R4274155	3	· COVER GROUP, FUEL TANK		7/27/15
	R0808476	36	· · BOLT, 3/8"-16 X 1-1/4"		7/27/15
	R0753123	36	· · LOCKWASHER, 3/8"		7/27/15
	R4274154	3	· · COVER PLATE, 20-5/8" X 1/2" - ALUMINUM		7/27/15
	R4248986	3	· · O-RING, 18-7/16" I.D. - BUNA N		7/27/15
25	R4040561	1	· ADAPTER, 1" MP X #12 MJ		
26	R4182699	2	· SPACER BAR, FUEL TANK MOUNT		
27	R0021544	12	· LOCKWASHER, 1"		
28	R0021668	12	· BOLT, 1"-8 X 3"		
29	R4002424	1	· ADAPTER, 1" MP X #16 MJ		
30	R4247865	1	· VALVE KIT, CHECK - FUEL		
31	R4013799	1	· · BUSHING, 1" FP X 1-1/4" MP		
32	R4267851	1	· · VALVE, CHECK - FUEL, 1-1/4" - .29 PSI		
	R4267856	1	· · FILTER SCREEN, SUCTION - FUEL		
33	R4271094	1	· · · BUSHING, 1" FP X 1-1/4" MP		3/20/12
34	R4267853	1	· · · RING, RETAINING		
35	R4251923	1	· · · FILTER SCREEN, SUCTION - FUEL		
36	R4271091	1	· · · O-RING, 1-1/8" I.D. - BUNA N		
37	R6945598	1	· · · NIPPLE, PIPE - 1"		
38	R4102664	4	· COVER ASSEMBLY, ACCESS - FUEL TANK		
39	R4005299	4	· · CLAMP STRUCTURE		
40	R0828984	4	· · O-RING, 6-1/8" I.D. - BUNA N		
41	R4005298	4	· · COVER STRUCTURE		
42	R4001871	4	· · CAPSCREW, 1/2"-13 X 1-3/4"		
43	R0782042	4	· · PLUG, PIPE - 3/4", HEX CSK.		

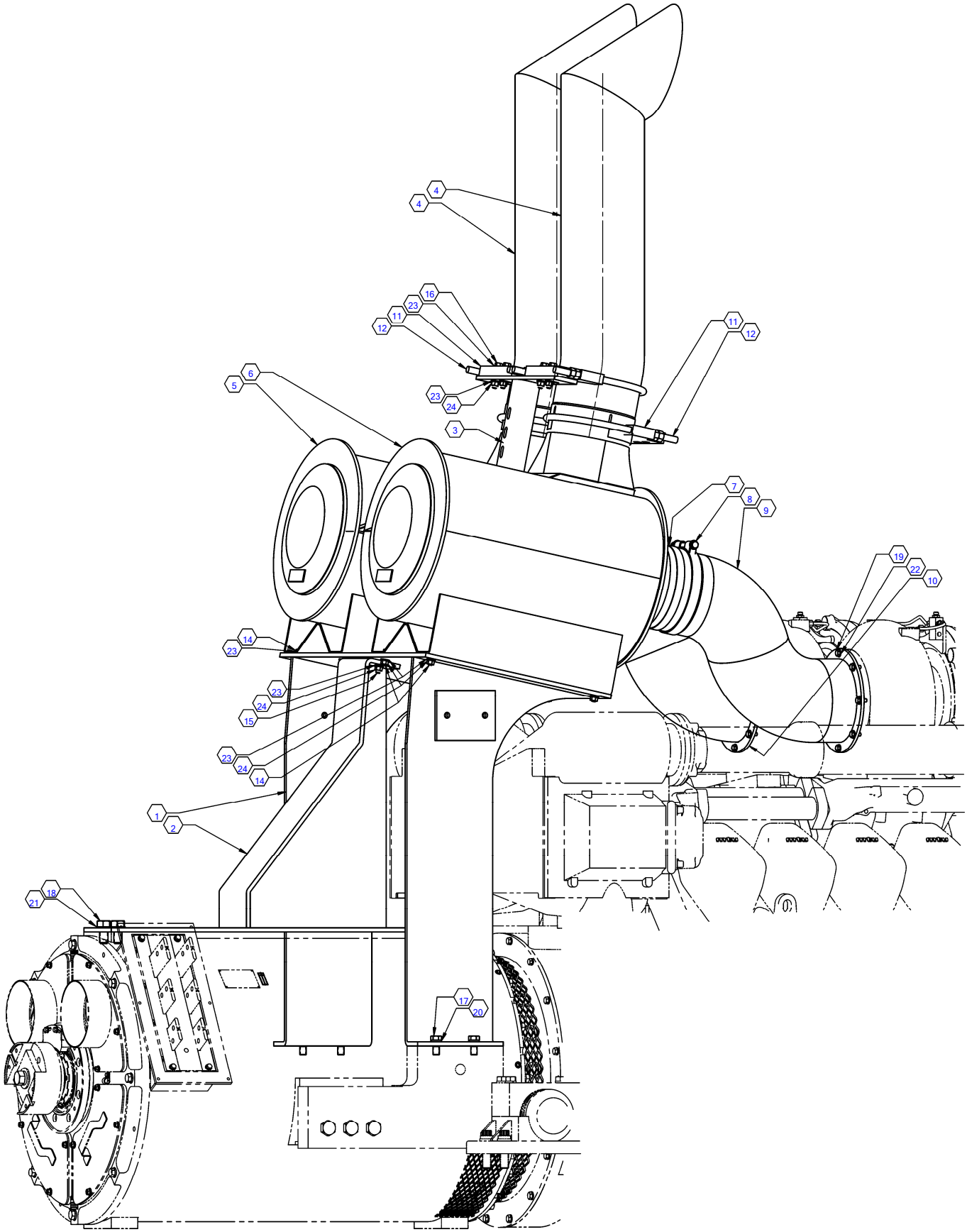
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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EXHAUST SYSTEM



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EXHAUST SYSTEM

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273602		EXHAUST SYSTEM		
1	R4275038	1	· EXHAUST SUPPORT STRUCTURE		
2	R4275099	1	· EXHAUST SUPPORT STRUCTURE, GENERATOR		
3	R4275034	1	· EXHAUST SUPPORT PIPE STRUCTURE		
4	R4275093	2	· STACK, EXHAUST		
5	R4273542	1	· MUFFLER STRUCTURE, R.H.		
6	R4273541	1	· MUFFLER STRUCTURE, L.H.		
7	R4182641	2	· TUBE, FLEX - 10" I.D. X 6", METAL		
8	R4142031	4	· CLAMP ASSEMBLY, 10-1/4"		
9	R4275090	1	· TUBE STRUCTURE, MUFFLER - R.H. DD		
10	R4275091	1	· TUBE STRUCTURE, MUFFLER - L.H. DD		
11	R4241652	4	· CLAMP STRUCTURE, STACK		
12	R4241694	4	· U-BOLT, 10-7/8" - WITH NUTS		
13	R0824766	4	· BOLT, 3/8"-16 X 1/2"		
14	R4009753	8	· BOLT, 1/2"-13 X 1-1/2"		
15	R0827222	2	· BOLT, 1/2"-13 X 2"		
16	R0808598	4	· BOLT, 1/2"-13 X 2-3/4"		
17	R4009524	4	· BOLT, 3/4"-10 X 1-3/4"		
18	R0021666	4	· BOLT, 1"-8 X 2"		
19	R4103848	16	· BOLT, 10 MM X 1.50 X 25		
20	R0021542	4	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
21	R4125632	4	· LOCKWASHER, 1"		
22	R4010924	16	· FLATWASHER, 7/16"		
23	R0810991	32	· FLATWASHER, 1/2" X 1" X 1/8"		
24	R0808489	14	· NUT, 1/2"-13		
		REF	DRAWING, EXHAUST SYSTEM (R427360201)		

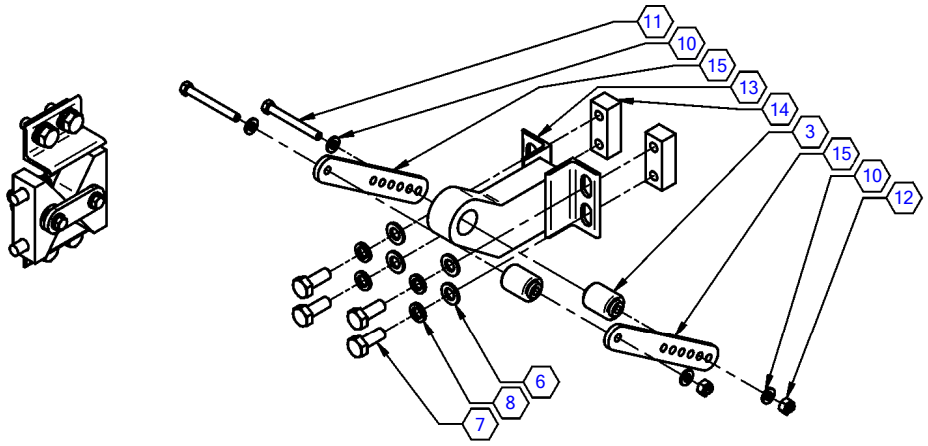
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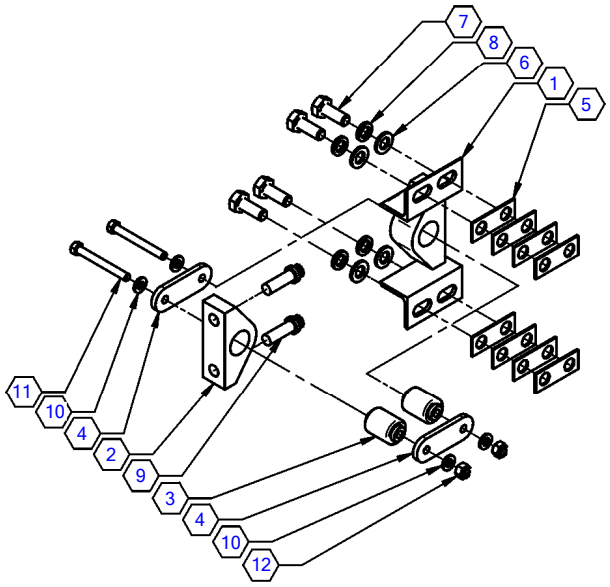
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

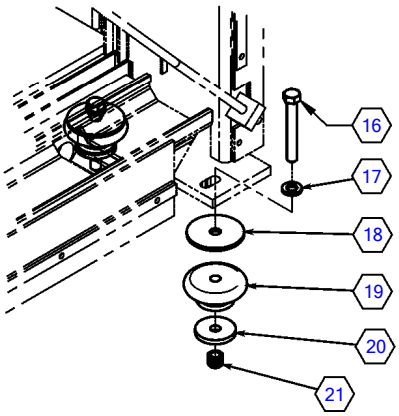
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RADIATOR MOUNT GROUP







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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274840		RADIATOR MOUNT GROUP		7/28/16
	R4274839	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"		10/2/13
12	R4016017	6	· · LOCKNUT, 1/2"-13 - NYLON		
13	R4274838	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"		7/28/16
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)		

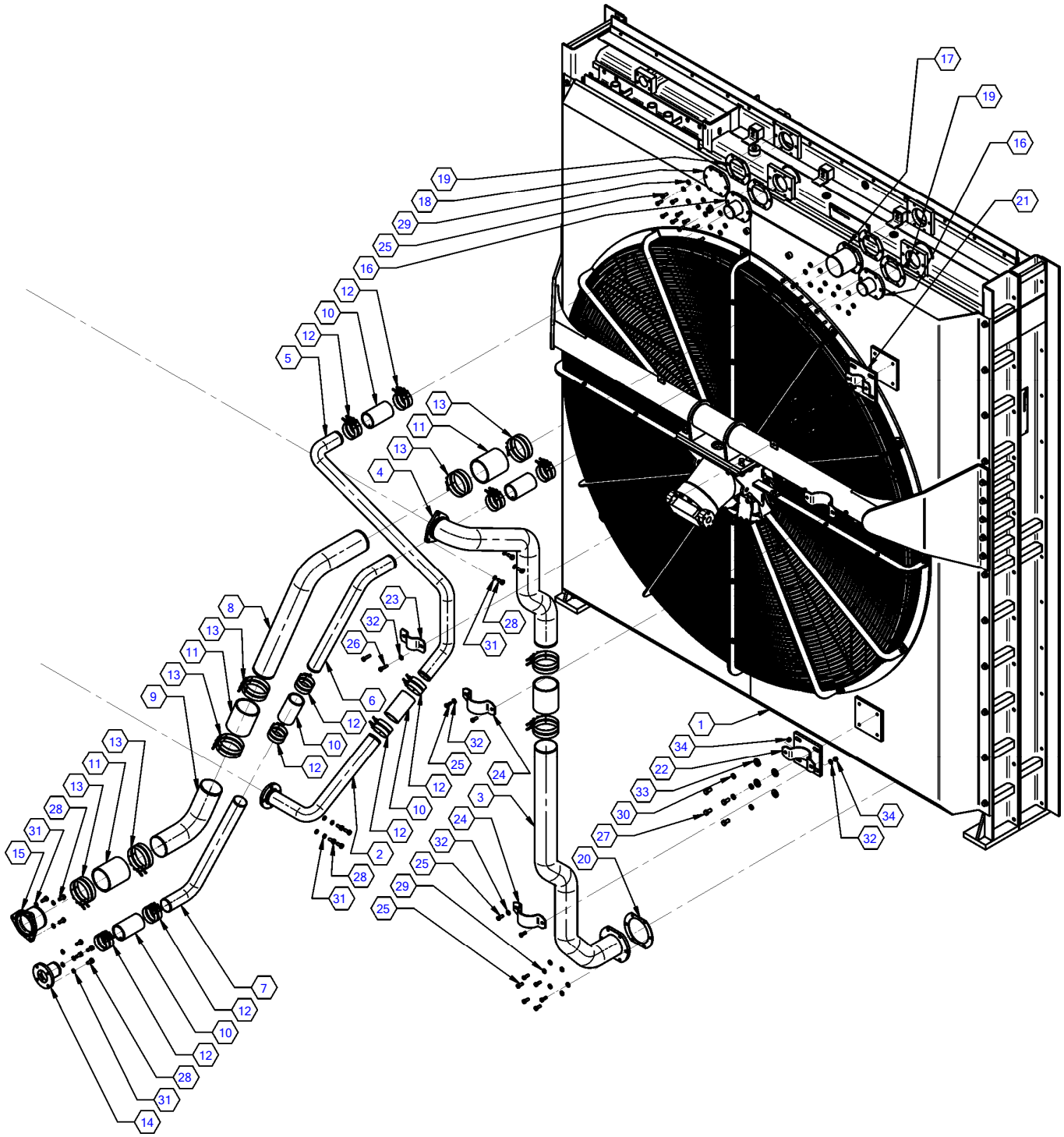
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RADIATOR PIPING



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RADIATOR PIPING

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4275058		RADIATOR PIPING - DD T2		2/7/19
1	N.P.N.	1	· RADIATOR, OIL COOLER AND FAN ASSEMBLY (PAGE 8.6-8.6A)		
2	R4275127	1	· TUBE STRUCTURE, LOWER L.H. - 2-1/2" O.D.		
3	R4275073	1	· TUBE STRUCTURE, LOWER L.H. - 4" O.D.		
4	R4275128	1	· TUBE STRUCTURE, UPPER L.H. - 4" O.D.		
5	R4275121	1	· TUBE STRUCTURE, UPPER R.H. - 2-1/2" O.D.		
6	R4275122	1	· TUBE STRUCTURE, UPPER R.H. - 2-1/2" O.D.		
7	R4275123	1	· TUBE STRUCTURE, LOWER L.H. - 2-1/2" O.D.		
8	R4275124	1	· TUBE STRUCTURE, UPPER L.H. - 4" O.D.		
9	R4275125	1	· TUBE STRUCTURE, LOWER L.H. - 4" O.D.		
10	R4015086	5	· HOSE, 2-1/2" I.D. X 6"		1/16/19
11	R0983410	4	· HOSE, 4" I.D. X 6"		2/7/19
12	R0983442	20	· CLAMP, HOSE - T-BOLT, 3"		
13	R0983407	16	· CLAMP, HOSE - T-BOLT, 4-1/2"		
14	R4236718	1	· FLANGE, 2-1/2" - 4 BOLT		
15	R4275139	1	· FLANGE STRUCTURE, RADIATOR		
16	R4236862	2	· FLANGE, 2-1/2" - 6 BOLT		
17	R4241731	1	· FLANGE STRUCTURE, RADIATOR OUTLET		
18	R4236860	1	· COVER PLATE, 6" O.D. - 6 BOLT		
19	R4033186	4	· GASKET, 4-1/8" I.D. - FLANGE TO TANK		
20	R4247533	1	· GASKET, 5" I.D. - FLANGE TO TANK		
21	R4275084	1	· MOUNT STRUCTURE, CLAMP - 2-1/2"		
22	R4275076	1	· MOUNT STRUCTURE, CLAMP - 4"		
23	R4237810	1	· CLAMP HALF, 2-1/2"		
24	R0987620	2	· CLAMP HALF, 4" O.D.		
25	R0810971	34	· BOLT, 3/8"-16 X 1"		
26	R4009640	2	· BOLT, 3/8"-16 X 1-1/2"		
27	R0801180	8	· BOLT, 1/2"-13 X 1"		
28	R4103848	14	· BOLT, 10 MM X 1.50 X 25		
29	R4010908	30	· LOCKWASHER, 7/16"		
30	R0801181	8	· LOCKWASHER, 1/2"		
31	R4241873	14	· LOCKWASHER, 10 MM		
32	R0808221	6	· FLATWASHER, 3/8"		
33	R0021549	8	· FLATWASHER, 1/2"		
34	R0985113	6	· LOCKNUT, 3/8"-16 - NYLON		
		REF	DRAWING, RADIATOR PIPING (R427505800)		

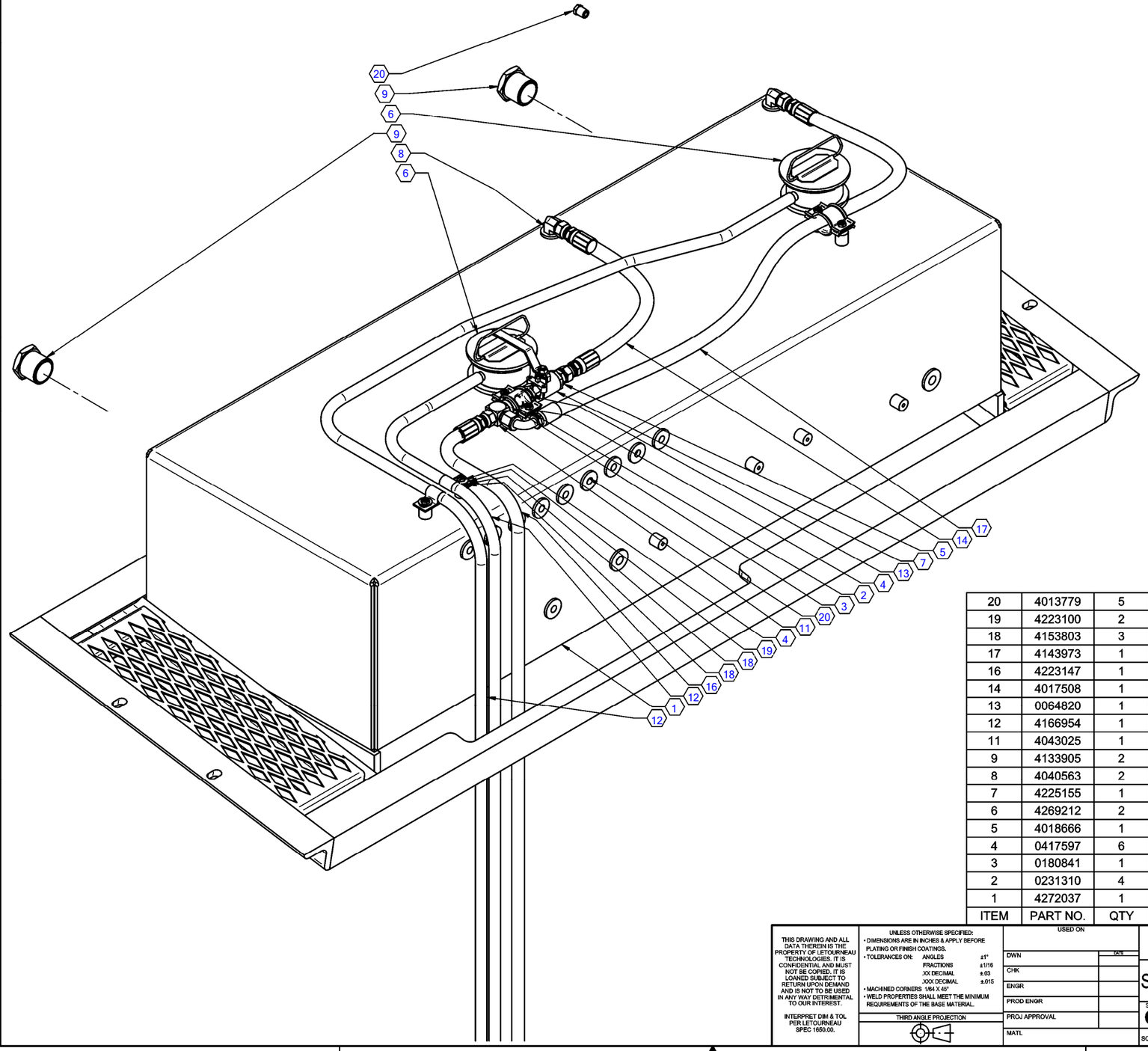
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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SURGE TANK HARDWARE GROUP



ITEM	PART NO.	QTY	DESCRIPTION
20	4013779	5	PIPE PLUG 1/4 NPT HEX HEAD
19	4223100	2	1/4 CONICAL WASHER
18	4153803	3	CLAMP CABLE 5/8
17	4143973	1	HOSE 2000 8 44.0 0J 0J
16	4223147	1	HOSE 300 8 170.0 0J
14	4017508	1	HOSE 2000 8 18.0 0J 0J
13	0064820	1	PIPE NIPPLE EXTENDED
12	4166954	1	HOSE DRAIN .375 ID X 182.0
11	4043025	1	FTG HYD TE 8 MJ 8 MP 8 MJ
9	4133905	2	SIGHT GLASS
8	4040563	2	FTG HYD 90 8 MJ 4 MP JUMP
7	4225155	1	BALL VALVE 1/2 NPT
6	4269212	2	CAP SURGE TANK 4 INCH
5	4018666	1	FTG HYD 0 8 MJ 8 MP JUMP
4	0417597	6	BOLT HEX .250 .500 NC G8 FT
3	0180841	1	PIPE COUPLING STD 1/2 NPT
2	0231310	4	PRESSED CABLE GROMMET
1	4272037	1	STR SURGE TANK L1350

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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

	DATE
DWN	
CHK	
ENGR	
PROD ENGR	
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

SUB GP SURGE TANK HDWARE L1350

SIZE C | DO NOT SCALE | DWG NO. 4272035 | REV 01

SCALE 1:4 | EST WT 534.7 lbm | SHEET 1 OF 1

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SURGE TANK HARDWARE GROUP

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SURGE TANK HARDWARE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4272035		SURGE TANK HARDWARE GROUP		3/15/18
1	R4272037	1	· SURGE TANK STRUCTURE		
2	R0231310	4	· CLAMP HALF, 1-3/8" DIA.		
3	R0180841	1	· COUPLING, PIPE - 1/2"		
4	R0417597	6	· BOLT, 1/4"-20 X 1/2"		
5	R4018666	1	· ADAPTER, 1/2" MP X #8 MJ		
6	R4269212	2	· CAP, TANK - 4", 14 PSI		
7	R4225155	1	· VALVE, BALL - 1/2"		2/11/14
8	R4040563	2	· ELBOW, 1/4" MP X 90 deg. X #8 MJ		
9	R4133905	2	· GAUGE, LEVEL - SIGHT GLASS		
10	N.P.N.		· NOT USED		
11	R4043025	1	· TEE, #8 MJ X 1/2" MP X #8 MJ		
12	R4166954	1	· HOSE, #6 X 182"		
13	R0064820	1	· NIPPLE, PIPE		
14	R4017508	1	· HOSE ASSEMBLY, #8 X 18"		
15	N.P.N.		· NOT USED		
16	R4223147	1	· HOSE ASSEMBLY, #8 X 170"		
17	R4143973	1	· HOSE ASSEMBLY, #8 X 44"		
18	R4153803	3	· CLAMP, CABLE - INSULATED, 5/8"		
19	R4223100	2	· FLATWASHER, 1/4" I.D. X 5/16" O.D. X 1/16" - CONICAL		
20	R4013779	5	· PLUG, PIPE - 1/4", HEX HD.		
	R4117627	REF	SENDING UNIT, LOW LEVEL		3/15/18
		REF	SURGE TANK HARDWARE GROUP (R427203501)		

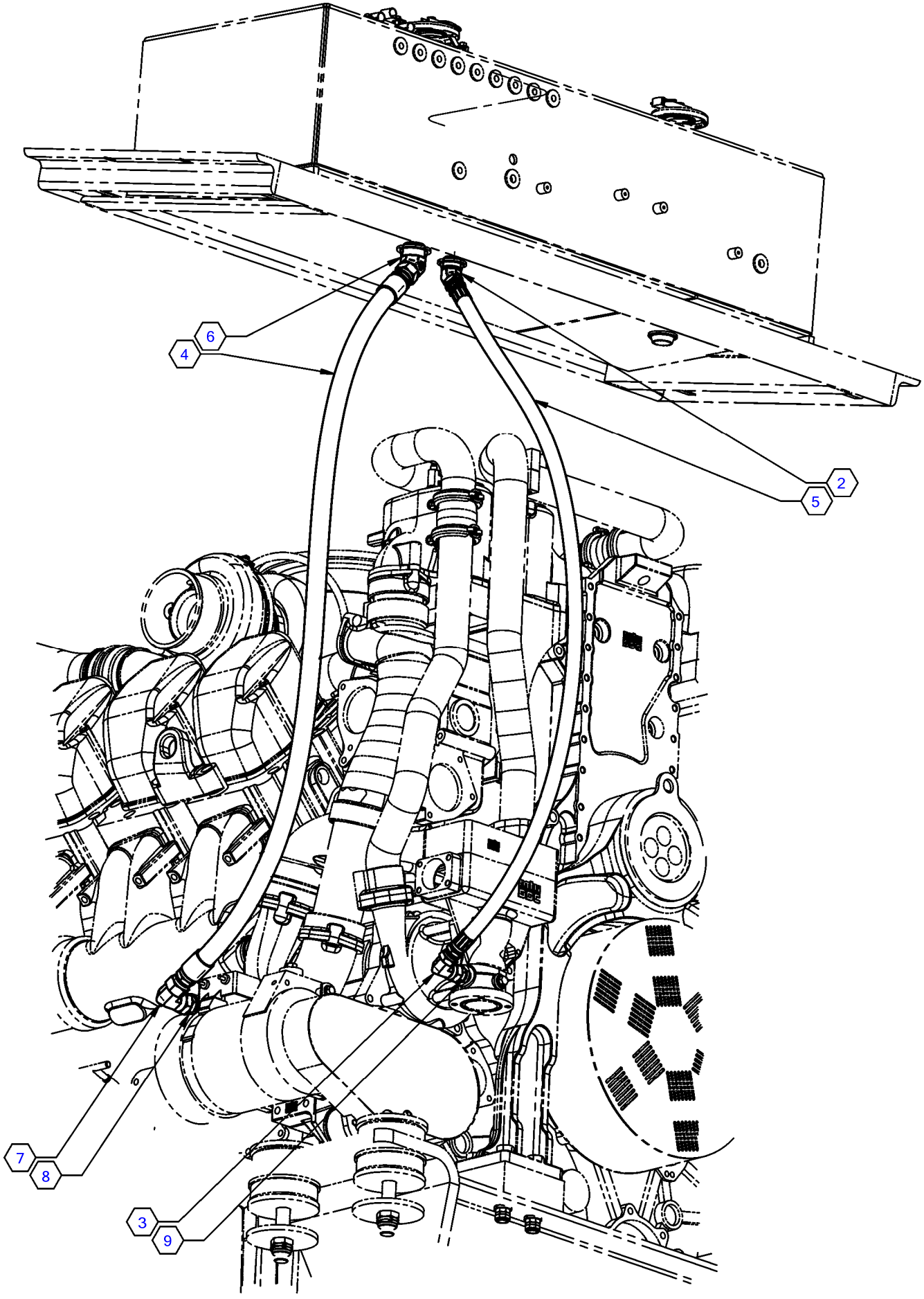
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SURGE TANK FILL LINES GROUP



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SURGE TANK FILL LINES GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273606		SURGE TANK FILL LINES GROUP		
1	N.P.N.		· NOT USED		
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	R4034900	1	· HOSE ASSEMBLY, #16 X 84"		
5	R4096696	1	· HOSE ASSEMBLY, #12 X 76"		
6	R4260659	1	· ELBOW, 1-1/4" MP X 45 deg. X #16 MJ		
7	R4002483	1	· ELBOW, #16 FJ X 90 deg. X #16 MJ - SWIVEL		
8	R4243568	1	· ADAPTER, 30 MM X #16 MJ		
9	R4243562	1	· ADAPTER, 22 MMO X #12 MJ		
			·		
		REF	DRAWING, SURGE TANK FILL LINES GROUP (R427360602)		

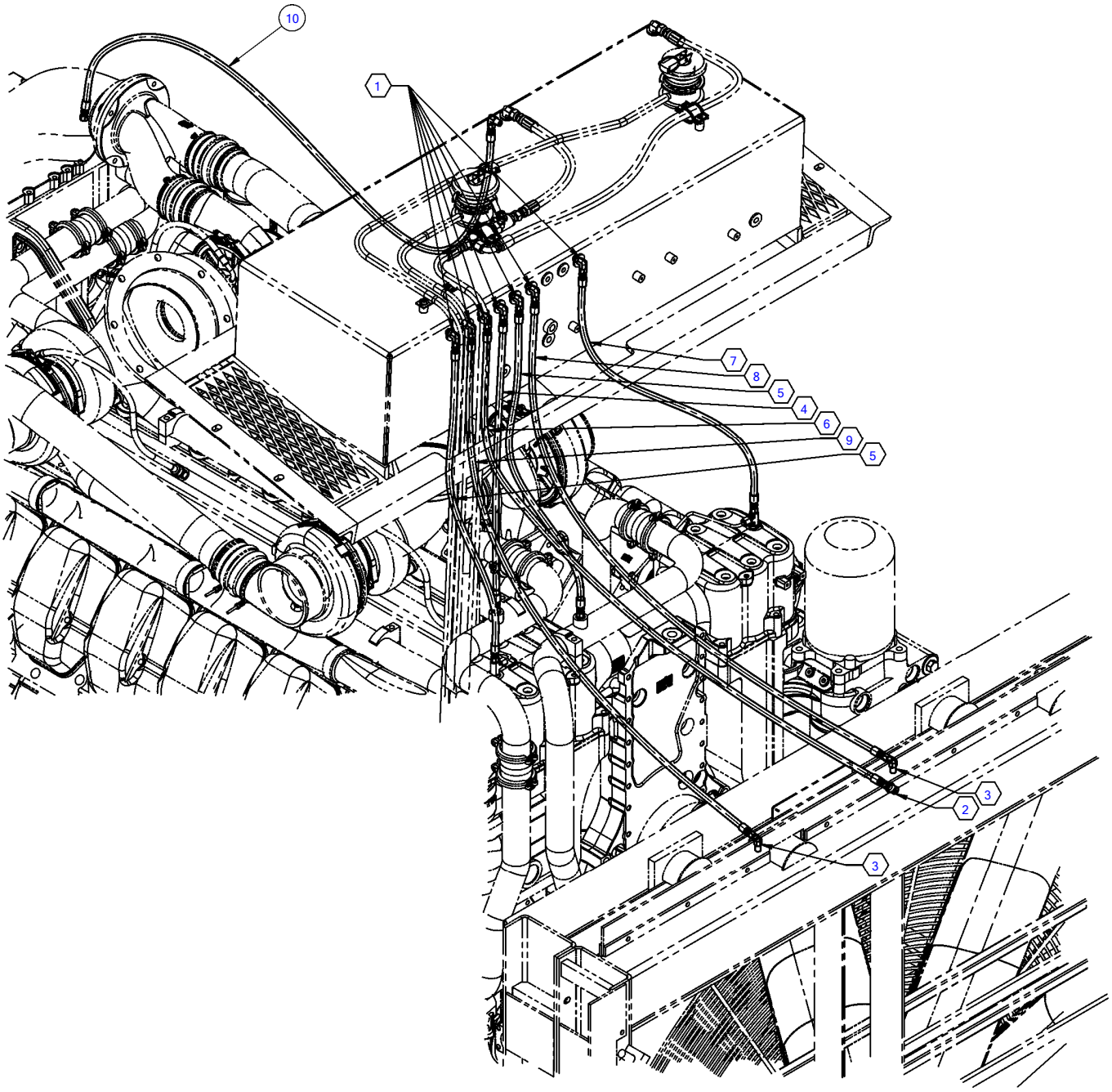
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SURGE TANK VENT LINES GROUP



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SURGE TANK VENT LINES GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273605		SURGE TANK VENT LINES GROUP		
1	R4011748	8	· ELBOW, 1/4" MP X 90 deg. X #4 MJ		
2	R4040562	1	· ADAPTER, 3/8" MP X #4 MJ		
3	R6953864	2	· ELBOW, 3/8" MP X 90 deg. X #4 MJ		
4	R6989418	1	· HOSE ASSEMBLY, #4 X 34"		
5	R4015681	2	· HOSE ASSEMBLY, #4 X 36"		
6	R4265904	1	· HOSE ASSEMBLY, #4 X 68"		
7	R4124916	1	· HOSE ASSEMBLY, #4 X 40"		
8	R4157150	1	· HOSE ASSEMBLY, #4 X 36"		
9	R6946210	1	· HOSE ASSEMBLY, #4 X 65"		
10	R4073656	1	· HOSE ASSEMBLY, #4 X 90"		
		REF	DRAWING, SURGE TANK FILL LINES GROUP (R427360501)		

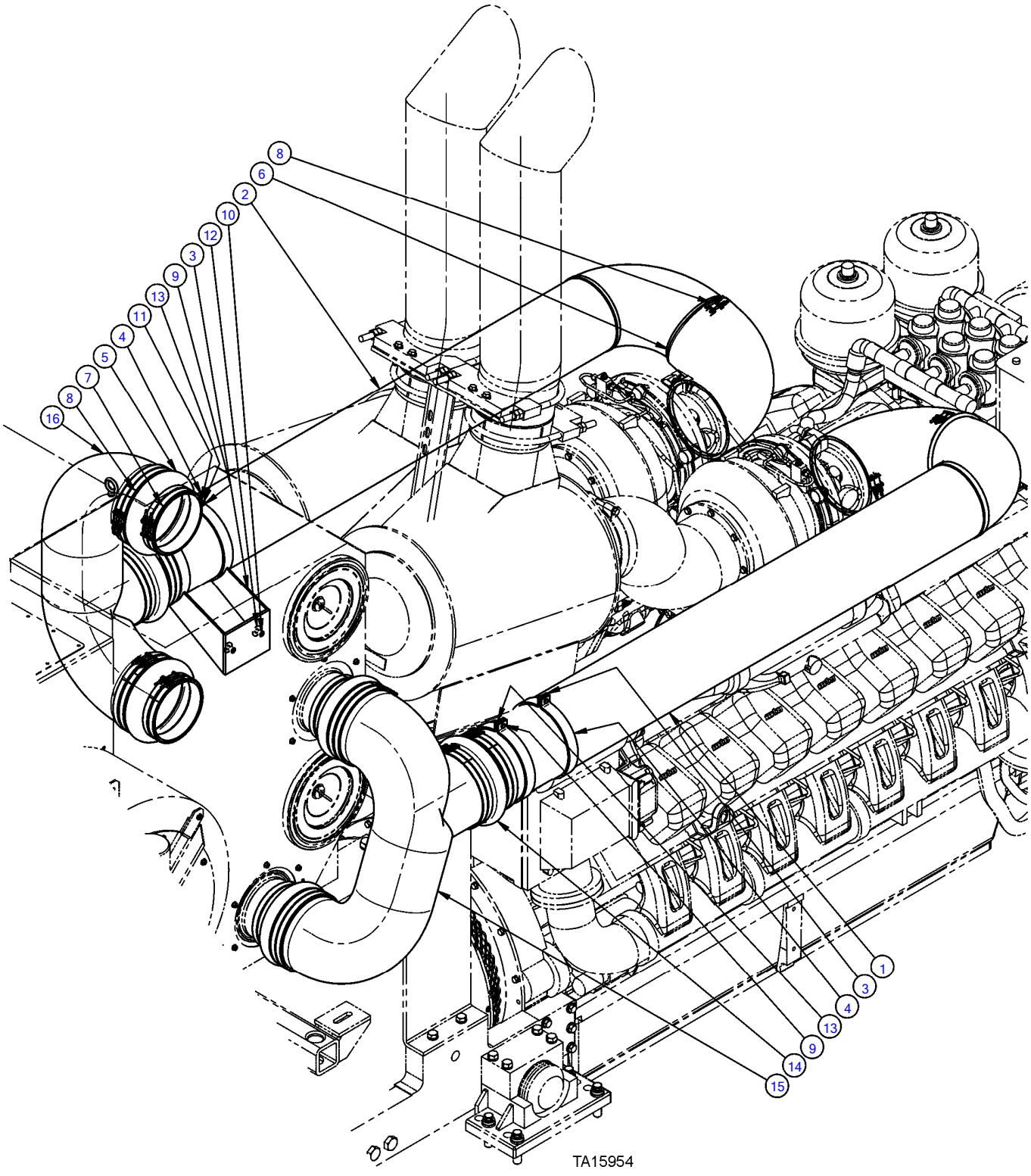
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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ENGINE AIR INLET SYSTEM



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ENGINE AIR INLET SYSTEM

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273617		ENGINE AIR INLET SYSTEM		1/28/15
1	R4275089	1	· TUBE STRUCTURE, AIR - L.H.		
2	R4275088	1	· TUBE STRUCTURE, AIR - R.H.		
3	R4275116	2	· SUPPORT STRUCTURE, TUBE CLAMP		
4	R4158287	4	· CLAMP HALF, 10"		
5	R4215137	2	· HOSE, HUMP - 10" I.D. X 8" I.D. X 6"		
6	R4106920	2	· ELBOW, HOSE - 10" I.D. X 90 deg.		
7	R0980785	8	· CLAMP, HOSE - T-BOLT, 8-1/2"		1/28/15
8	R4215136	24	· CLAMP, HOSE - T-BOLT, 10-1/2"		1/28/15
9	R0824753	8	· BOLT, 5/16"-18 X 1-1/4"		
10	R0801180	4	· BOLT, 1/2"-13 X 1"		
11	R0264174	8	· LOCKWASHER, 5/16"		
12	R0021549	4	· FLATWASHER, 1/2"		
13	R0821687	8	· NUT, 5/16"-18		
14	R4081294	2	· HOSE, HUMP - 10" I.D. X 6"		1/28/15
15	R4278160	1	· TUBE STRUCTURE, AIR - LEFT SIDE FRONT		1/28/15
16	R4278161	1	· TUBE STRUCTURE, AIR - RIGHT SIDE FRONT		1/28/15
		REF	DRAWING, ENGINE AIR INTAKE (R427361701)		1/28/15

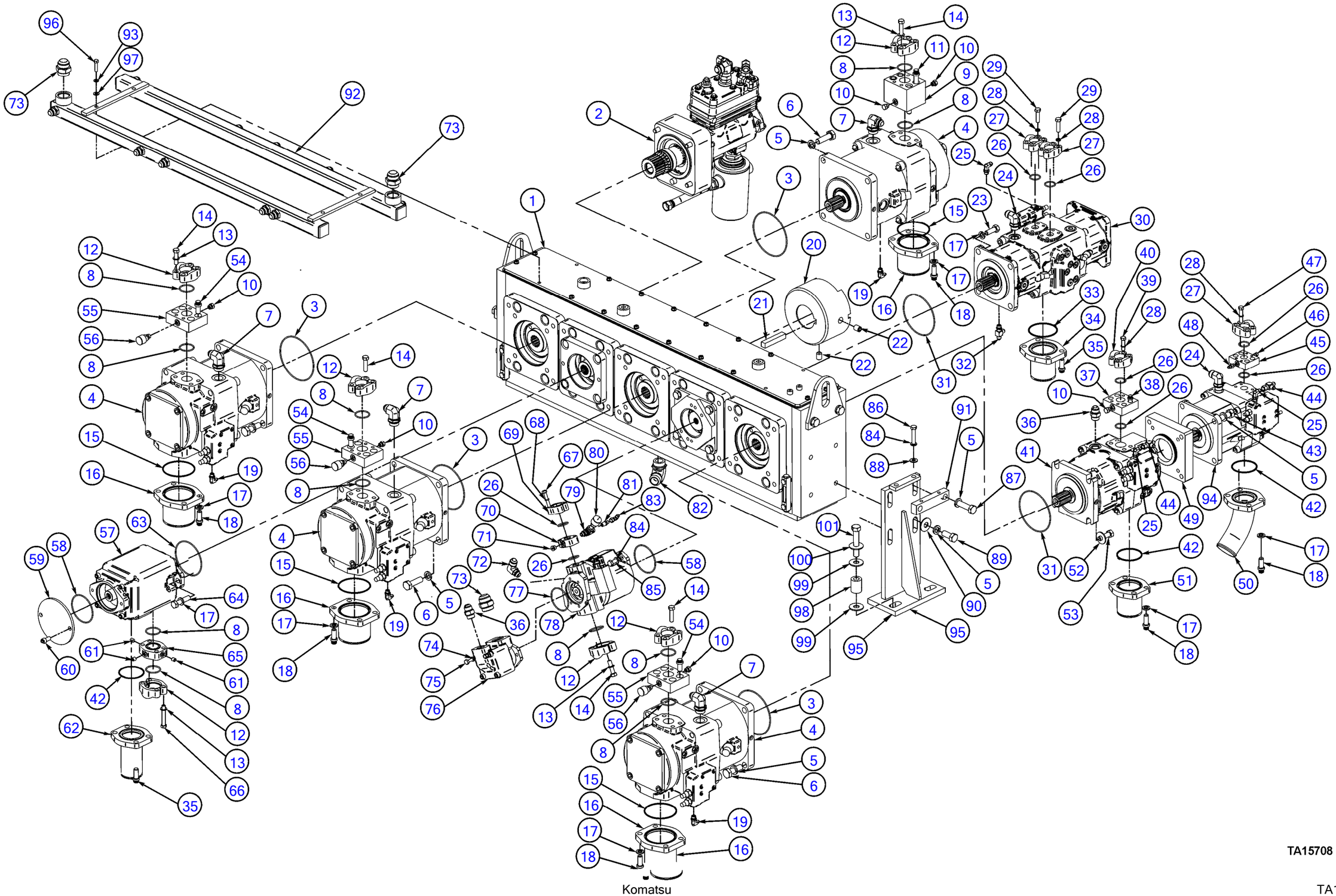
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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GEARBOX AND PUMPS



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4277995		GEARBOX AND PUMPS		2/24/16
1	R4256514	1	· GEARBOX AND DRIVE ADAPTERS ASSEMBLY		
2	R4261548	1	· AIR COMPRESSOR		
3	R4244637	4	· O-RING, 6-1/2" I.D. - VITON		
4	R4237902	4	· PUMP, PISTON - 260 CM3 R.H.		
	R4237851	4	· · PRESSURE COMPENSATOR CONTROL ELEMENT		
	R4237852	4	· · REGULATOR ASSEMBLY		
	R4237853	4	· · PORT PLATE WITH ACCESSORIES		
	R4237854	4	· · ROTARY GROUP		
	R4237855	4	· · DRIVE SHAFT		
	R4237856	4	· · SENSOR, LOAD		
	R4237857	4	· · SEAL KIT		
	R4267498	4	· · SEAL KIT, COMPENSATOR		
5	R0021542	28	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
6	R0021646	16	· BOLT, 3/4"-10 X 2-1/2"		
7	R4021411	4	· ELBOW, #16 MO X 90 deg. X #12 MJ		
8	R4068358	11	· O-RING, 1-7/8" I.D. - POLYURETHANE		
9	R4222070	1	· TEST BLOCK		
10	R4030061	6	· PLUG, #6 MO		
11	R4001897	4	· CAPSCREW, 5/8"-11 X 3-1/2"		
12	R4186401	12	· FLANGE HALF, 1-1/2"		
13	R4210349	24	· FLATWASHER, 1/2" - HARDENED		
14	R0827222	20	· BOLT, 1/2"-13 X 2"		
15	R4123586	4	· SEAL, QUAD RING - 4-3/8" I.D. - BUNA N		
16	R4238133	4	· FLANGE STRUCTURE, PUMP - 4-1/2" O.D.		
17	R0021541	30	· LOCKWASHER, 5/8"		
18	R4001889	24	· CAPSCREW, 5/8"-11 X 1-1/2"		
19	R4040552	4	· ELBOW, #6 MO X 90 deg. X #4 MJ		
20	R4222931	1	· HUB, DRIVEN		
21	R0263100	1	· KEY, 3/4" X 3/4" X 4-1/8"		
22	R4016006	2	· SETSCREW, 3/4"-10 X 1" - HEX CSK.		
23	R0021629	4	· BOLT, 5/8"-11 X 1-3/4"		
24	R4002473	2	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
25	R4002470	3	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
26	R4105005	8	· O-RING, 1-1/4" I.D. - POLYURETHANE		
27	R4222102	6	· FLANGE HALF, 1"		
28	R4210348	16	· FLATWASHER, 7/16" - HARDENED		
29	R4243937	8	· BOLT, 12 MM X 1.75 X 45		
30	R4241408	1	· PUMP, PISTON - 95 CM3 R.H.		
	R4243768	1	· · COMPENSATOR, PRESSURE		
	R4244976	1	· · SEAL KIT, COMPENSATOR		11/10/15
	R4243769	1	· · ROTARY GROUP, R.H.		
	R4243770	1	· · ROTARY GROUP, L.H.		
	R4243771	1	· · DRIVE SHAFT		
	R4243772	1	· · DRIVE SHAFT		
	R4243773	1	· · BEARING		
	R4243774	1	· · BEARING		
	R4243775	1	· · BEARING		11/10/15
	R4243924	1	· · COVER, REAR SEAL		
	R4243776	1	· · SEAL KIT		
31	R4244772	2	· O-RING, 6" I.D. - VITON		
32	R4103064	1	· TEE, #6 MJ X #6 MO X #6 MJ		
33	R4123585	1	· SEAL, QUAD RING - 3-7/8" I.D. - BUNA N		
34	R4237926	1	· FLANGE STRUCTURE, PUMP - 3-1/2" O.D.		
35	R4243939	8	· CAPSCREW, 16 MM X 2 X 40		
36	R4002457	2	· ADAPTER, #12 MO X #12 MJ		
37	R4177334	1	· BLOCK, SPACER - 1-1/4" S.F.		
38	R4001868	4	· CAPSCREW, 1/2"-13 X 1"		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
39	R4213614	4	· BOLT, 7/16"-14 X 1-3/4"		
40	R4186400	2	· FLANGE HALF, 1-1/4"		
41	R4219002	1	· PUMP, PISTON - 130 CM3 L.H.		
	R4219148	1	· · CONTROL MODULE		
	R4231140	1	· · ROTARY GROUP		
	R4231141	1	· · SEAL KIT		
	R4231142	1	· · BEARING, FRONT		
	R4231143	1	· · BEARING, REAR		
	R4231144	1	· · BEARING, CRADLE		
	R4244897	1	· · REGULATOR, COMPENSATOR		
42	R4123584	3	· SEAL, QUAD RING - 3-3/8" I.D. - BUNA N		
43	R0021644	4	· BOLT, 3/4"-10 X 2"		
44	R4131486	2	· TEE, #6 MJ X #6 FJ X #6 MJ		
45	R4237951	1	· TEST BLOCK, #16 SF		
46	R4020770	1	· PLUG, #4 MO		
47	R4213684	4	· BOLT, 7/16"-14 X 2-3/4"		
48	R4014580	1	· ADAPTER, #4 MO X #4 MJ		
49	R4277943	1	· ADAPTER KIT		
	N.P.N.	1	· · ADAPTER, PUMP MOUNT		2/24/16
	N.P.N.	1	· · ADAPTER SLEEVE		2/24/16
	N.P.N.	2	· · O-RING		2/24/16
	N.P.N.	4	· · CAPSCREW		2/24/16
50	R4276966	1	· FLANGE STRUCTURE, 3" BEND		
51	R4238136	1	· FLANGE STRUCTURE, PUMP - 3-1/2" O.D.		
52	R4223105	4	· FLATWASHER, 5/8" I.D. X 1-3/4" O.D. X 1/8" - CONICAL		
53	R0021630	4	· BOLT, 5/8"-11 X 2"		
54	R4165409	12	· CAPSCREW, 5/8"-11 X 1-1/4"		
55	R4177294	3	· BLOCK, SPACER - 1-1/2" SF		
56	R4223018	3	· COUPLING ASSEMBLY, QUICK - MALE X #6 MO		
	R4222435	3	· · COUPLING, QUICK - MALE X 1/4" FP		
	R4222437	3	· · CAP, QUICK COUPLING		
	R4051567	3	· · ADAPTER, 1/4" MP X #6 MJ		
	R4133132	3	· · O-RING, 1/2" I.D. - POLYURETHANE		
57	R4273456	1	· PUMP, VANE - 13.8 -B THRU-DRIVE		
	R4231147	1	· · CARTRIDGE KIT, FRONT L.H. 072		
	R4163576	1	· · SEAL KIT WITH SHAFT SEAL		
58	R4257212	2	· O-RING, 4" I.D. - VITON		
59	R4103857	1	· COVER PLATE		
60	R4248576	2	· CAPSCREW, 12 MM X 25 - HEX CSK.		
61	R0272969	3	· PLUG, PIPE - 1/4", HEX CSK.		
62	R4237927	1	· FLANGE STRUCTURE, PUMP - 3" O.D.		
63	R4068830	1	· O-RING, 5" I.D. - VITON		
64	R0021633	2	· BOLT, 5/8"-11 X 2-3/4"		
65	R4035359	1	· TEST BLOCK, 1-1/8"		
66	R4248728	4	· BOLT, 12 MM X 80		
67	R0801173	4	· BOLT, 3/8"-16 X 3-1/4"		
68	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
69	R4186491	2	· FLANGE HALF, 1"		
70	R4011832	1	· TEST BLOCK, 1"		
71	R4261677	1	· PLUG, #6 MO		
72	R4241246	1	· ELBOW, #8 MO X 90 deg. X #12 MJ - ADJ.		
73	R4002460	3	· ADAPTER, #20 MO X #20 MJ		
74	R4241873	2	· LOCKWASHER, 10 MM		
75	R4103848	2	· BOLT, 10 MM X 1.50 X 25		
76	R4241140	1	· PUMP ASSEMBLY, VANE - 2.17 CU IN, L.H.		
	R4162358	1	· · SEAL KIT		
77	R4244771	1	· O-RING, 3-1/4" I.D. - VITON		
78	R4256463	1	· PUMP, PISTON - 45 CM3 L.H.		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4261606	1	· · SEAL KIT		
	R4261607	1	· · COUPLING, SPLINED		
	R4261603	1	· · DRIVE SHAFT		
	R4261604	1	· · COMPENSATOR		
	R4261605	1	· · SEALS, COMPENSATOR		
79	R4261625	1	· TEE, #6 MO X #6 FO X #6 FO		
80	R4223016	1	· COUPLING ASSEMBLY, QUICK - MALE X 1/4" MP		
	R4222435	1	· · COUPLING, QUICK - MALE X 1/4" FP		
	R4222437	1	· · CAP, QUICK COUPLING		
	R4030298	1	· · NIPPLE, PIPE - 1/4", HEX		
81	R4016785	1	· ADAPTER, 1/4" MP X #4 MJ		
82	R4002476	1	· ELBOW, #20 MO X 90 deg. X #20 MJ		
83	R4139699	1	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
84	R0801181	6	· LOCKWASHER, 1/2"		
85	R4009753	2	· BOLT, 1/2"-13 X 1-1/2"		
86	R4102793	4	· BOLT, 1/2"-13 X 2-1/2"		
87	R0021647	4	· BOLT, 3/4"-10 X 2-3/4"		
88	R0810991	4	· FLATWASHER, 1/2" X 1" X 1/8"		
89	R4009524	4	· BOLT, 3/4"-10 X 1-3/4"		
90	R4223106	8	· FLATWASHER, 3/4" I.D. X 2" O.D. X 3/16" - CONICAL		
91	R4102791	2	· BAR, ADJUSTING		
92	R4256491	1	· MANIFOLD, CASE DRAIN		
93	R0753123	4	· LOCKWASHER, 3/8"		
94	R4237905	1	· PUMP, PISTON - 95 CM3 L.H.		
	R4219148	1	· · CONTROL MODULE		
	R4241078	1	· · SEAL KIT		
95	R4241099	2	· MOUNT STRUCTURE, GEARBOX		
96	R4009640	4	· BOLT, 3/8"-16 X 1-1/2"		
97	R0808221	4	· FLATWASHER, 3/8"		
98	R4211004	REF	SPACER, 13/16" I.D. X 1-1/2" O.D. X 2"	4	
99	R0735509	REF	FLATWASHER, 3/4" I.D. X 2" X 1/8"	8	
100	R4223106	REF	FLATWASHER, 3/4" I.D. X 2" O.D. X 3/16" - CONICAL	4	
101	R4267536	REF	BOLT, 3/4"-10 X 4-1/4"	4	
	R4254489	REF	GEARBOX BREATHER SYSTEM		
		REF	DRAWING, GEARBOX AND PUMPS (R427799501)		

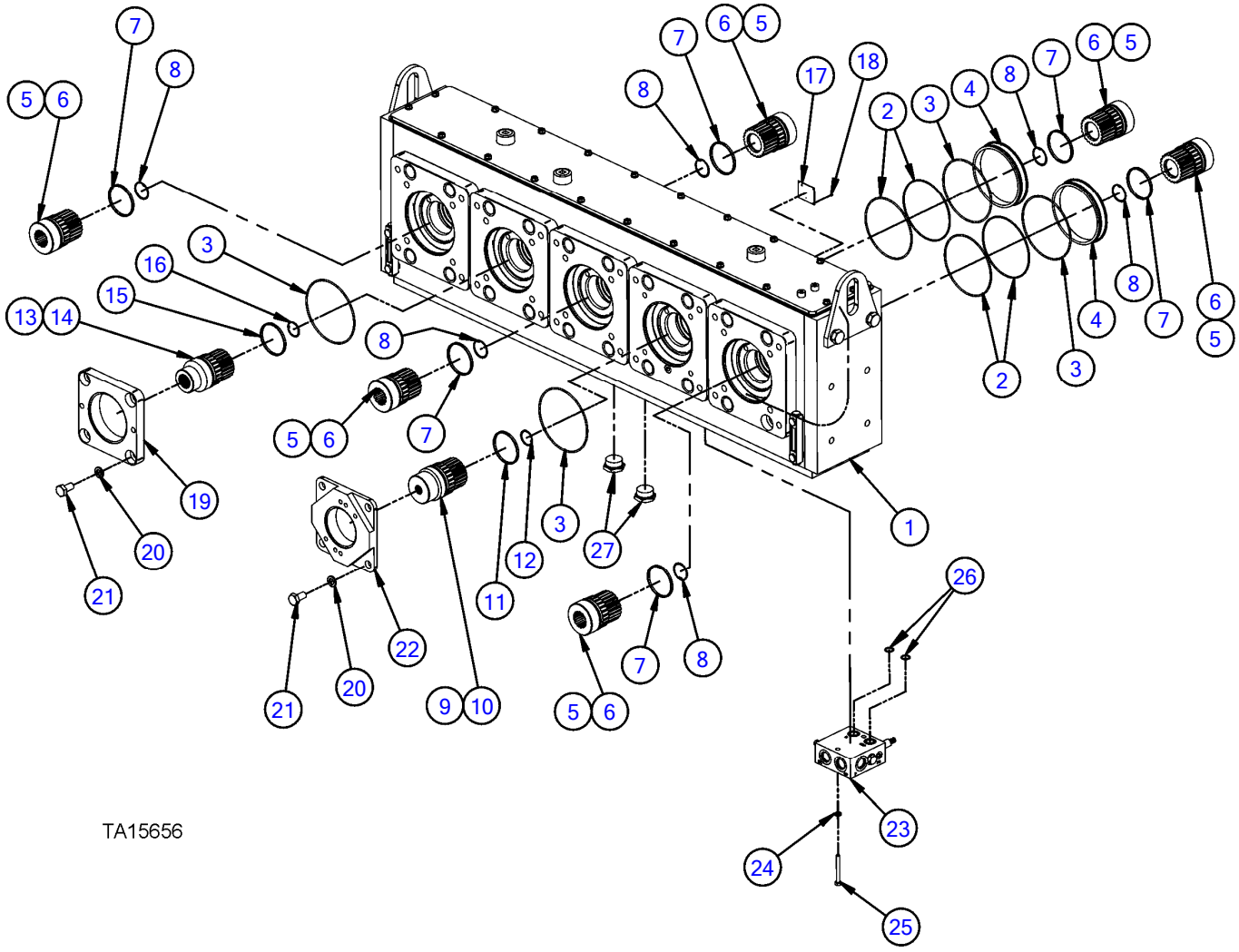
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GEARBOX AND DRIVE ADAPTERS ASSEMBLY



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GEARBOX AND DRIVE ADAPTERS ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4256514		GEARBOX AND DRIVE ADAPTERS ASSEMBLY (-1)		5/5/17
1	R4236589	1	· GEARBOX ASSEMBLY (PAGE 2.9-2.9C)		
2	R4261666	4	· O-RING, 6-1/4" I.D. - VITON		
3	R4244637	4	· O-RING, 6-1/2" I.D. - VITON		
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 (R425651404)		

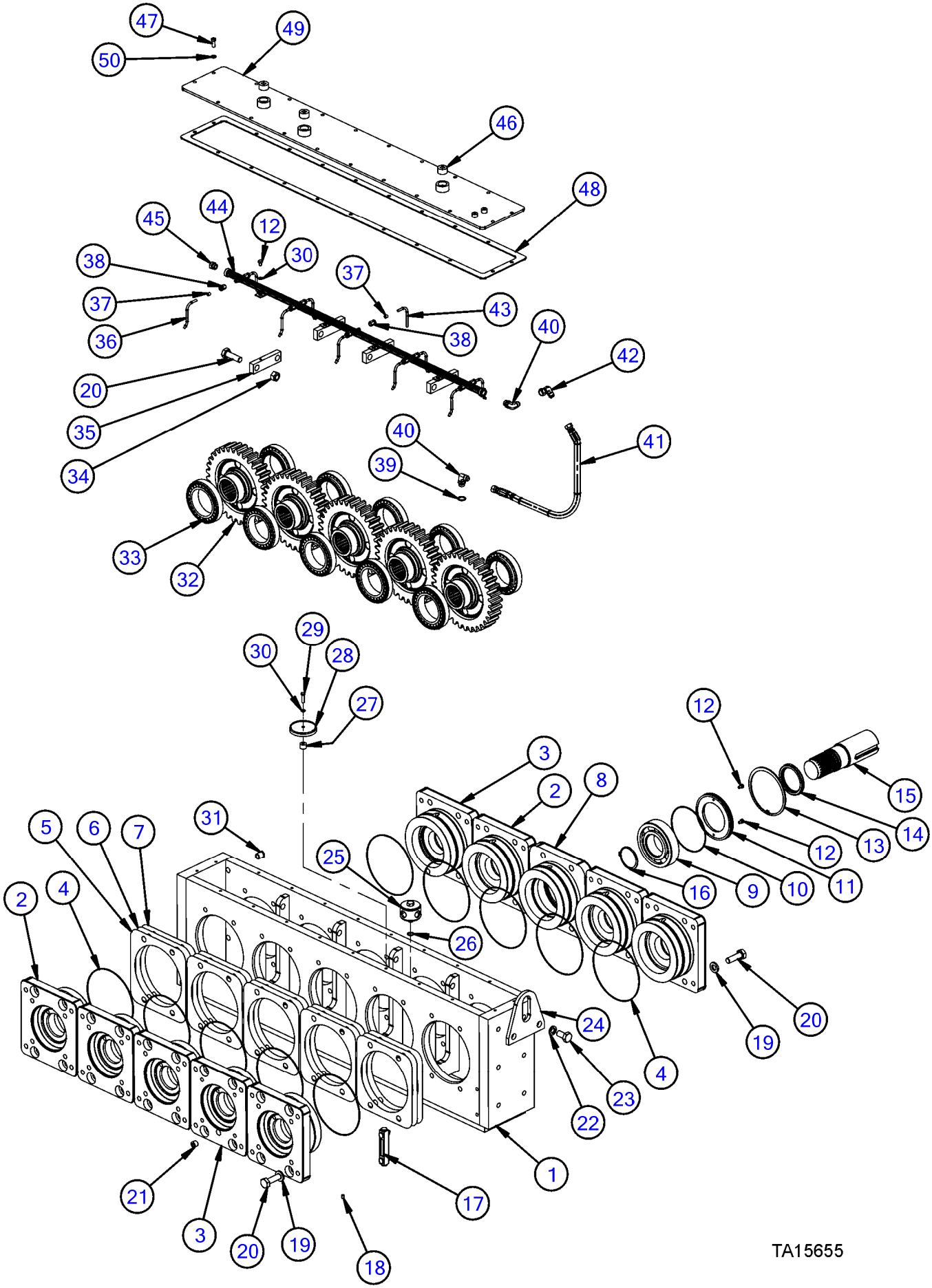
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HYDRAULIC GEARBOX ASSEMBLY



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HYDRAULIC GEARBOX ASSEMBLY

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

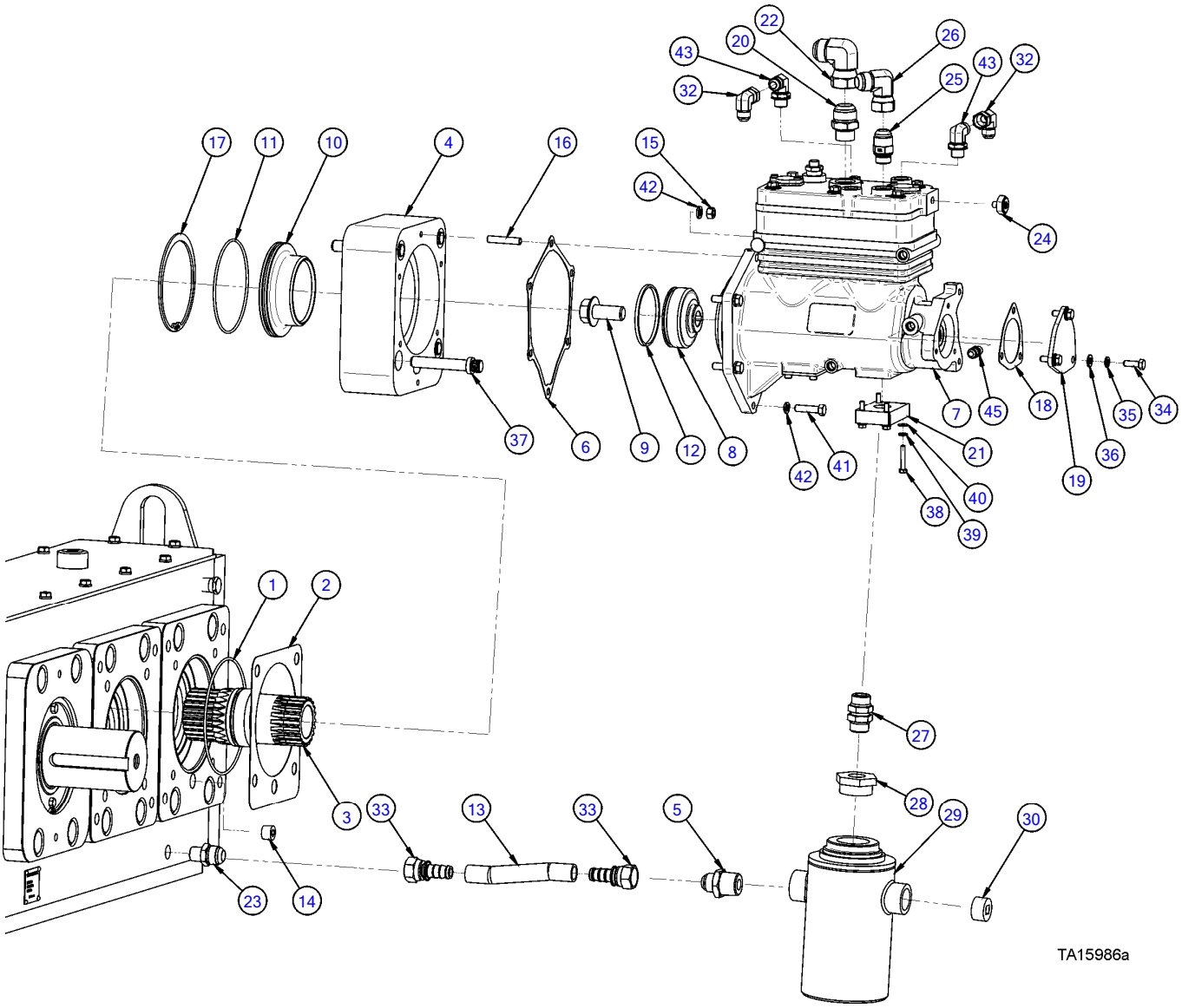
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR COMPRESSOR



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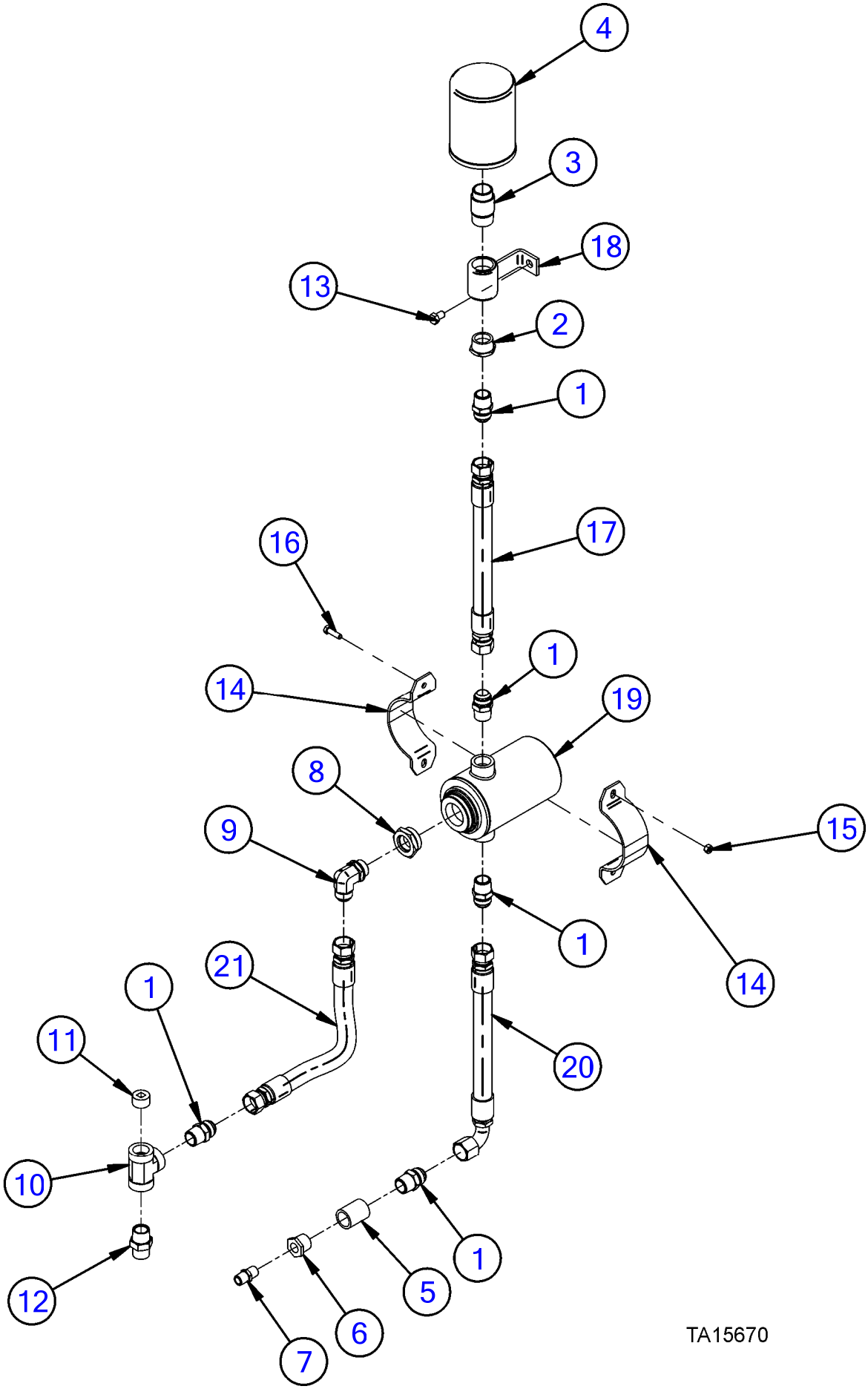
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4261548		AIR COMPRESSOR		6/20/19
1	R4244637	1	· O-RING, 6-1/2" I.D. - VITON		
2	R4253534	1	· GASKET, COMPRESSOR ADAPTER		
3	R4239181	1	· ADAPTER SLEEVE ASSEMBLY		
	R4239182	1	· · ADAPTER SLEEVE		
	R4237595	1	· · RING, PISTON		
	R4237602	1	· · 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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GEARBOX BREATHER SYSTEM



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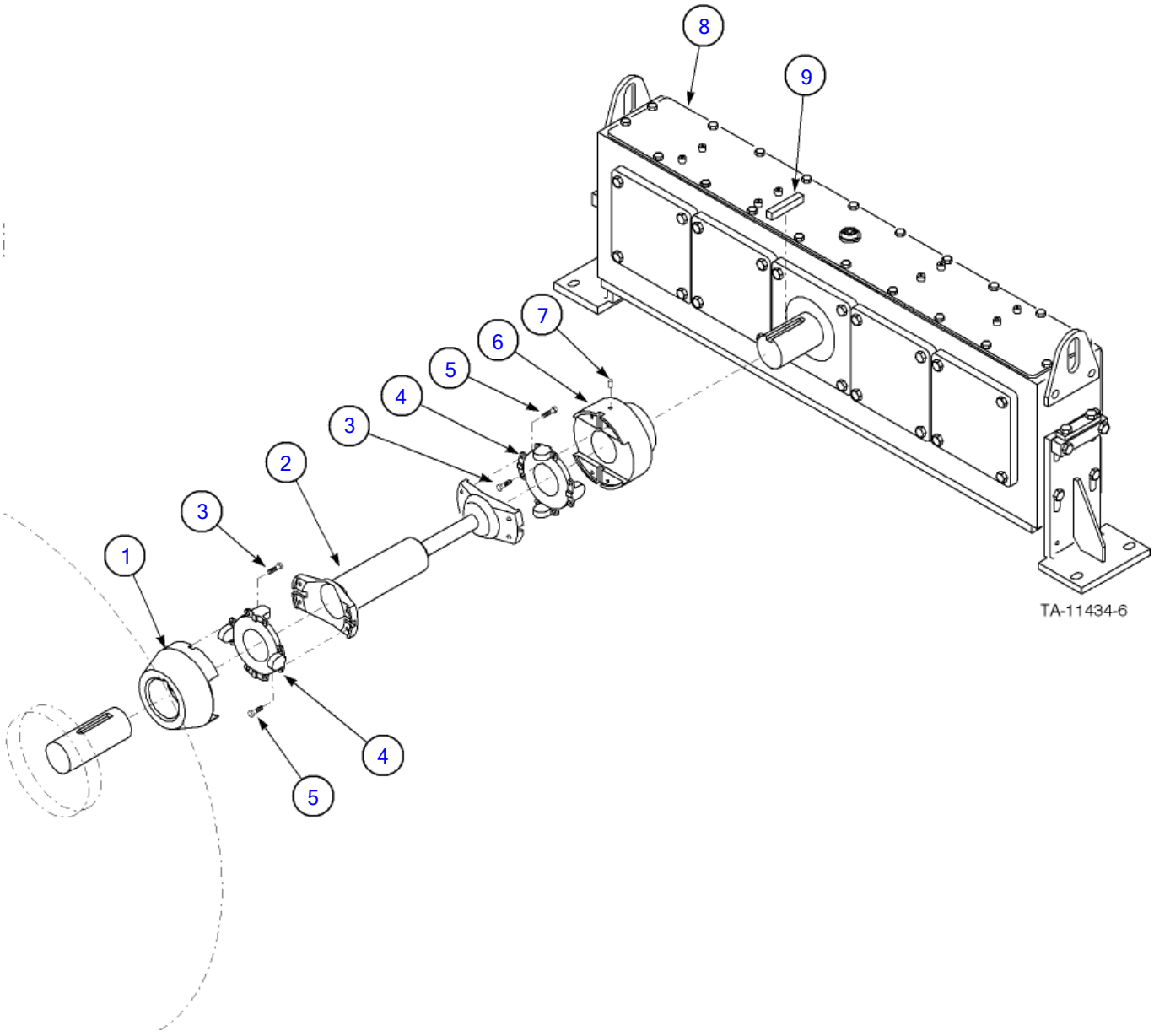
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4254489		GEARBOX BREATHER SYSTEM		
1	R4002424	5	· ADAPTER, 1" MP X #16 MJ		
2	R4013782	1	· REDUCER, 1" FP X 1-1/4" MP		
3	R4254490	1	· ADAPTER, BREATHER		
4	R4244941	1	· ELEMENT, FILTER		
5	R0210859	1	· COUPLING, PIPE - 1"		
6	R4013795	1	· BUSHING, 1/2" FP X 1" MP		
7	R4032313	1	· NIPPLE, PIPE - 1/2", HEX		
8	R4244690	1	· BUSHING, #16 FO X #24 MO		
9	R4002475	1	· ELBOW, #16 MO X 90 deg. X #16 MJ		
10	R4241590	1	· TEE, 1" FP		
11	R4013958	1	· PLUG, PIPE - 1" SQ. CSK. MAG.		
12	R6945598	1	· NIPPLE, PIPE - 1"		
13	R0021611	1	· BOLT, 1/2"-13 X 3/4"		
14	R0987622	2	· CLAMP HALF, 5"		
15	R0812921	1	· NUT, 3/8"-16		
16	R0808476	1	· BOLT, 3/8"-16 X 1-1/4"		
17	R4154485	1	· HOSE ASSEMBLY, #16 X 38"		
18	R4254488	1	· MOUNT STRUCTURE, BREATHER		
19	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		
20	R4223243	1	· HOSE ASSEMBLY, #16 X 43"		
21	R4151428	1	· HOSE ASSEMBLY, #16 X 42"		
		REF	DRAWING, GEARBOX BREATHER SYSTEM (R425448902)		

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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"		

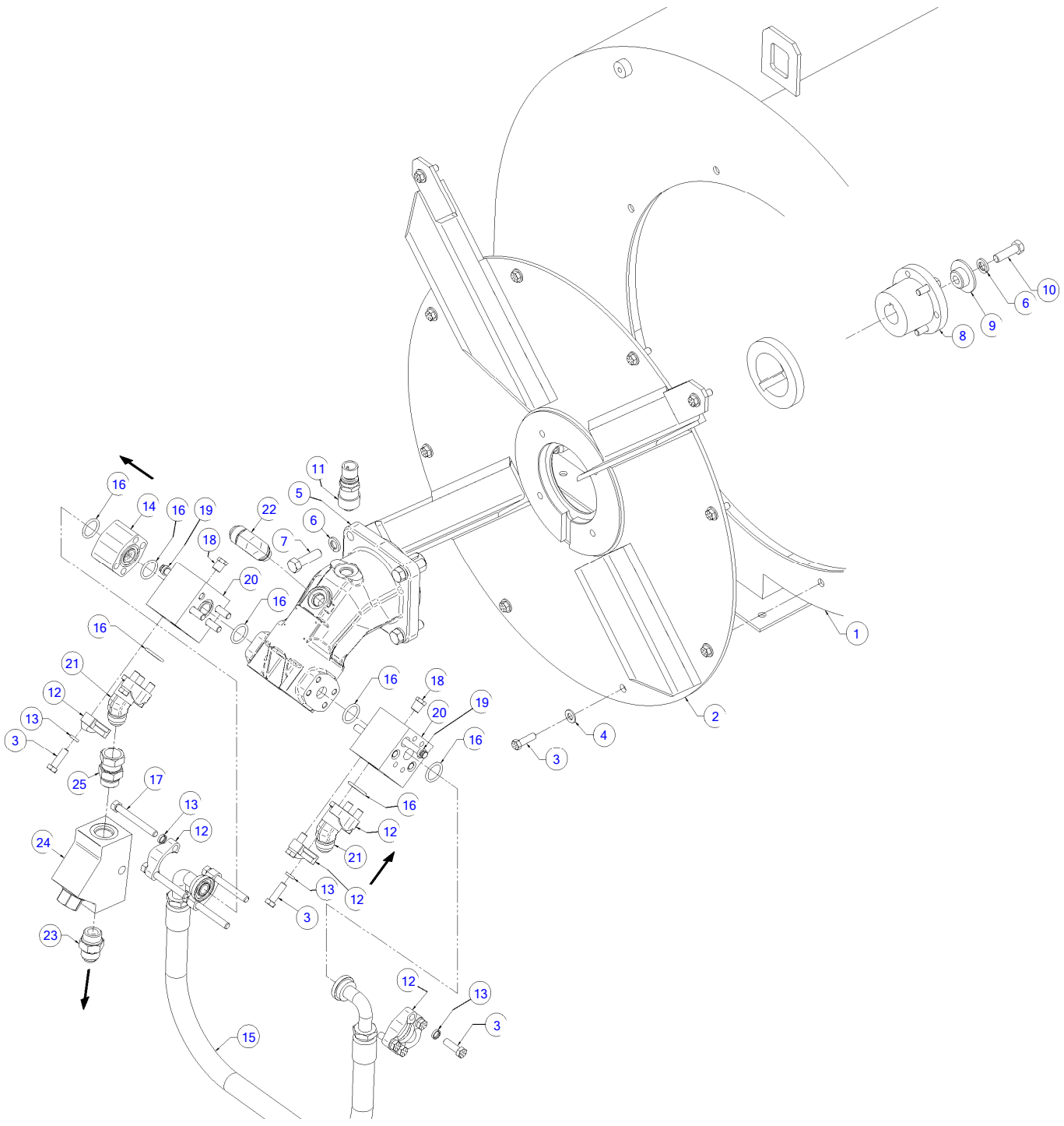
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BLOWER ASSEMBLY



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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

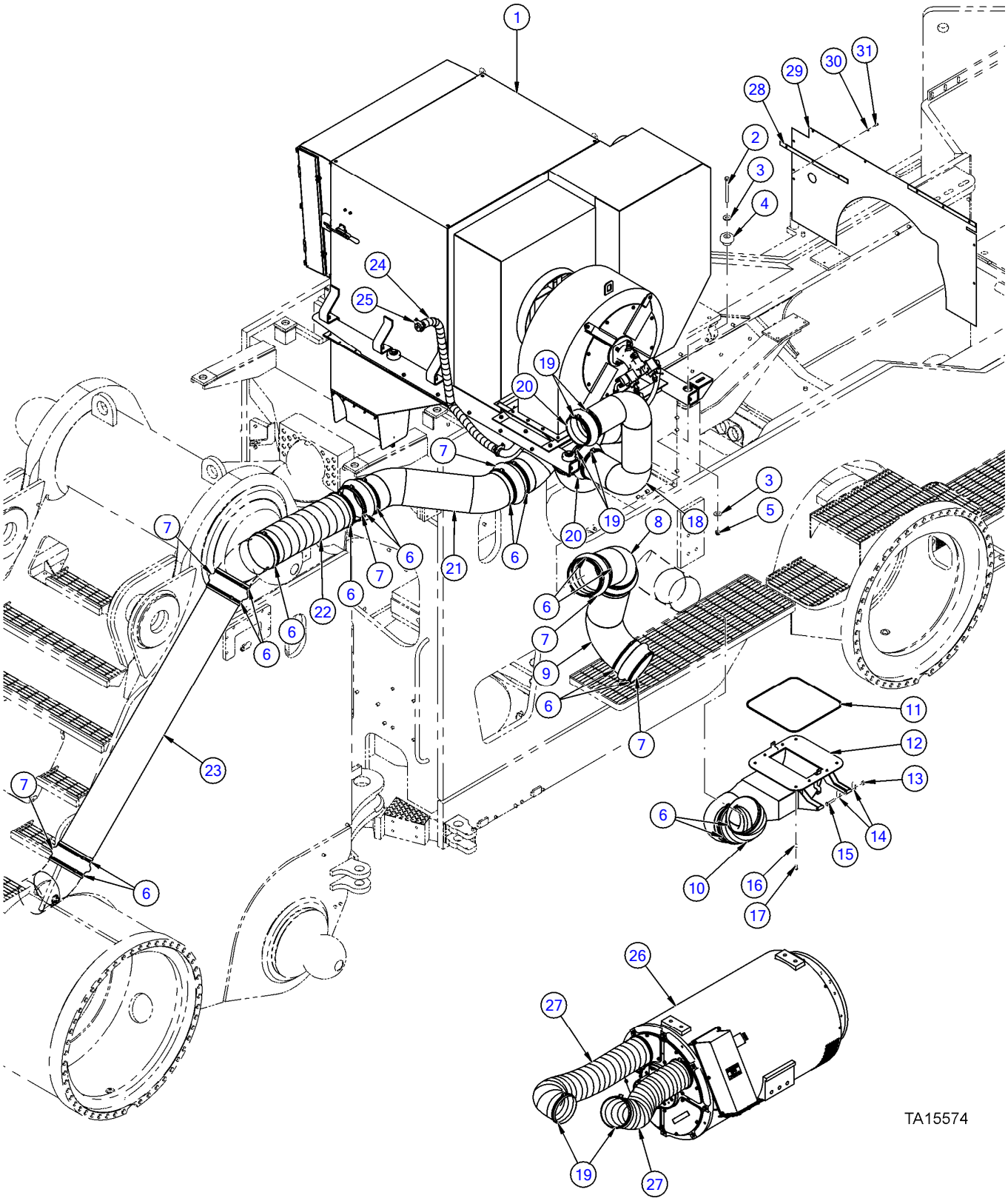
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR COOLING SYSTEM



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4272742		AIR COOLING SYSTEM		
1	R4272306	1	· BLOWER AND AIR CLEANER ASSEMBLY		
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	R4100446	18	· CLAMP, HOSE - WORM, 9-3/8"		
7	R4081294	7	· HOSE, HUMP - 10" I.D. X 6"		
8	R4274071	1	· TUBE STRUCTURE, 10" - UPPER		
9	R4274070	1	· TUBE STRUCTURE, 10" - LOWER		
10	R4239032	1	· HOSE, FLEX - 10" I.D. X 20"		
11	R4060985	REF	· SEAL, SPONGE - 5/8" X 5/8"	1	
12	R4239034	REF	· AIR INLET STRUCTURE, REAR AXLE	1	
13	R4016017	REF	· LOCKNUT, 1/2"-13 - NYLON	4	
14	R4242930	REF	· HINGE SIDE PLATE	4	
	R4247536	REF	· HINGE STRUCTURE	2	
15	R0788967	REF	· BOLT, 1/2"-13 X 3-1/2"	4	
16	R0801181	REF	· LOCKWASHER, 1/2"	4	
17	R4009752	REF	· BOLT, 1/2"-13 X 1-1/4"	4	
18	R4272365	1	· TUBE STRUCTURE, 8"		
19	R0857001	8	· CLAMP, HOSE - WORM, 8"		
20	R4015052	1	· HOSE, HUMP - 8" I.D. X 5"		
21	R4272342	1	· TUBE STRUCTURE, 10"		
22	R4170788	1	· HOSE, FLEX - 10" I.D. X 35"		
23	R4247559	1	· TUBE, 10" O.D. X 86"		
24	R4170504	1	· TUBE, FLEX - 2" I.D. X 95", METAL		
25	R4016000	4	· CLAMP, U-BOLT - 2-1/4"		
	R0456631	25	· RUBBER SPONGE SEAL, 1/4" X 3/4"		
26	N.P.N.	REF	· GENERATOR ASSEMBLY (PAGE 3.1-3.1A)		
27	R4261292	2	· HOSE, FLEX - 8" I.D. X 35"		
28	R4170893	2	· SUPPORT STRUCTURE, FIRE CURTAIN		
29	R4231010	1	· BARRIER, FLUID/FIRE CURTAIN		
30	R0808221	11	· FLATWASHER, 3/8"		
31	R0810971	11	· BOLT, 3/8"-16 X 1"		

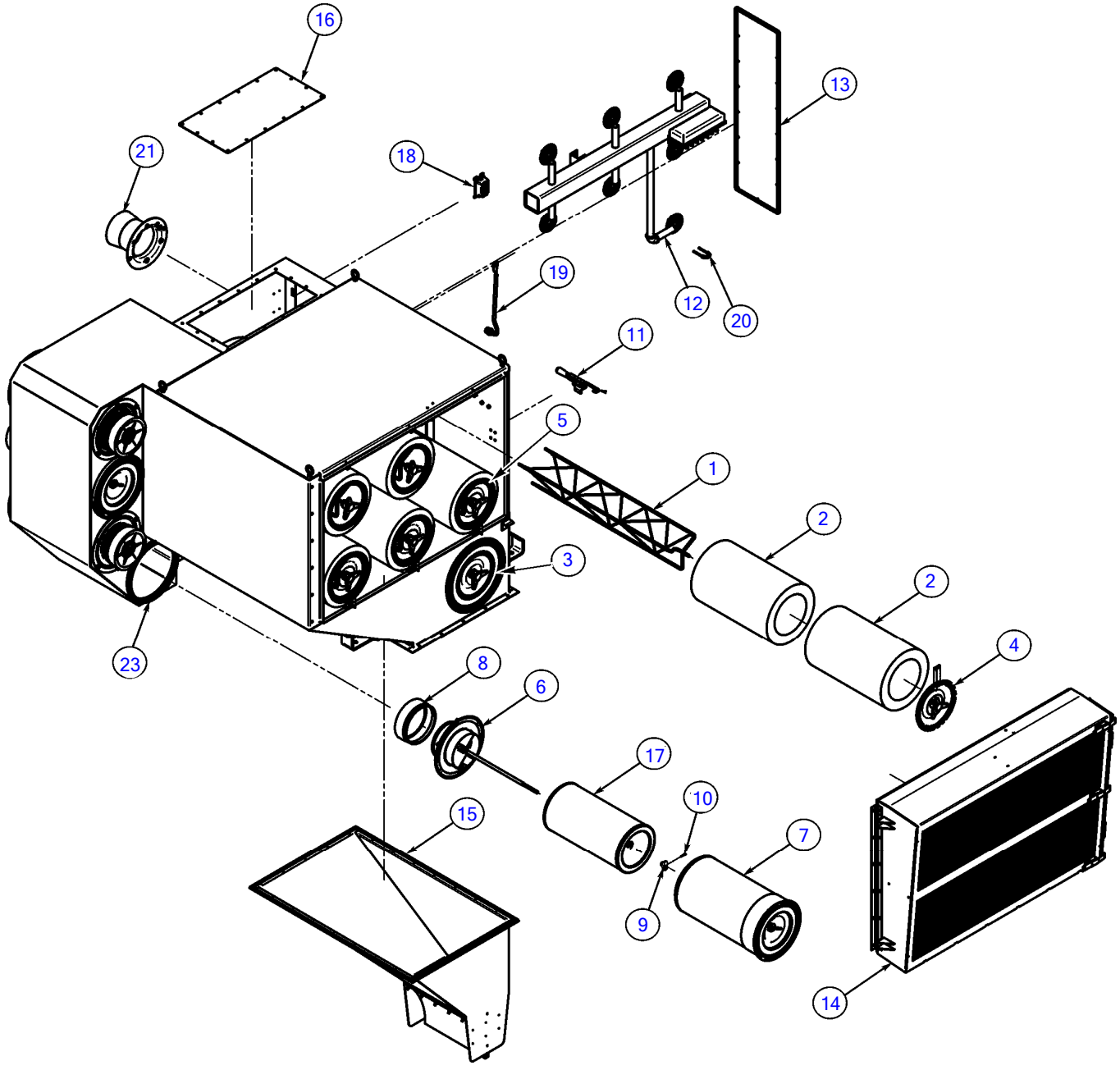
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR CLEANER SYSTEM



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4263017		AIR CLEANER SYSTEM (-1)		12/8/17
1	R4234049	7	· YOKE, FILTER MOUNT		
2	R4219820	14	· ELEMENT, FILTER		
	R4234070	1	· · GASKET, INSIDE - COVER, 3/8" X 1/2" X 10-1/8" I.D.		
3	R4234060	3	· COVER ASSEMBLY WITH KNOB		
	R4234069	3	· · COVER, METAL		
	R4234068	4	· · GASKET, OUTSIDE EDGE - COVER		
	R4234070	4	· · GASKET, INSIDE - COVER, 3/8" X 1/2" X 10-1/8" I.D.		
	R4223086	4	· · KNOB, 3 LOBE		
	R4234067	4	· · WASHER GASKET, KNOB		
	R4234071	4	· · CLIP, RETAINER - KNOB		
4	R4234062	1	· COVER ASSEMBLY, FILTER - UPPER		
5	R4234063	1	· COVER ASSEMBLY, FILTER - LOWER		
6	R4233234	4	· FLANGE ASSEMBLY, 8"		
	R4164372	4	· ADAPTER, SAFETY		
	R4249022	4	· GASKET, FLANGE ASSEMBLY		7/20/10
7	R4257047	1	· ELEMENT, SAFETY - OUTER, WITH WING NUT		
8	R4240913	1	· CAP, RUBBER - AIR INTAKE, 8"		
9	R4233235	1	· NUT ASSEMBLY, SAFETY ELEMENT INDICATOR - WITH GASKET WASHER		
10	R4233236	1	· PIN, COTTER		
11	R4234064	1	· LATCH ASSEMBLY, DOOR		
12	R4234081	1	· MANIFOLD ASSEMBLY (PAGE 2.16-2.16C)		
13	R4264306	1	· PANEL ASSEMBLY, ACCESS - SIDE		
14	R4234075	1	· INLET DOOR ASSEMBLY (PAGE 2.16-2.16B)		
15	R4264305	1	· HOPPER ASSEMBLY		
	R4269117	1	· · HOPPER STRUCTURE		
	R4252585	2	· · GASKET, HOPPER STRUCTURE		
	R4264304	1	· · FLAPS, VALVE		
16	R4264314	1	· PANEL ASSEMBLY, ACCESS - TOP		
17	R4233232	4	· ELEMENT, SAFETY - 8"		
18	R4255418	1	· PRESSURE TRANSMITTER, 0-20 PSIG		
19	R4262887	1	· CABLE ASSEMBLY		
20	R4262925	1	· CLAMP, PIPE		
21	R4255199	7	· VENTURI, PLASTIC		
22	R4260506	1	· HEATER GROUP, KLENZ SOLENOID MANIFOLD		
	R4260507	1	· · HEATER, KLENZ SOLENOID MANIFOLD		12/8/17
	R4260508	1	· · THERMOSTAT, KLENZ SOLENOID MANIFOLD		12/8/17
23	R4259540	4	· RING STRUCTURE, FILTER MOUNTING		7/20/10
NS	R4258769	1	· SCHEMATIC, AIR FILTER ASSEMBLY		11/12/12
	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 (R426301704)		11/12/12

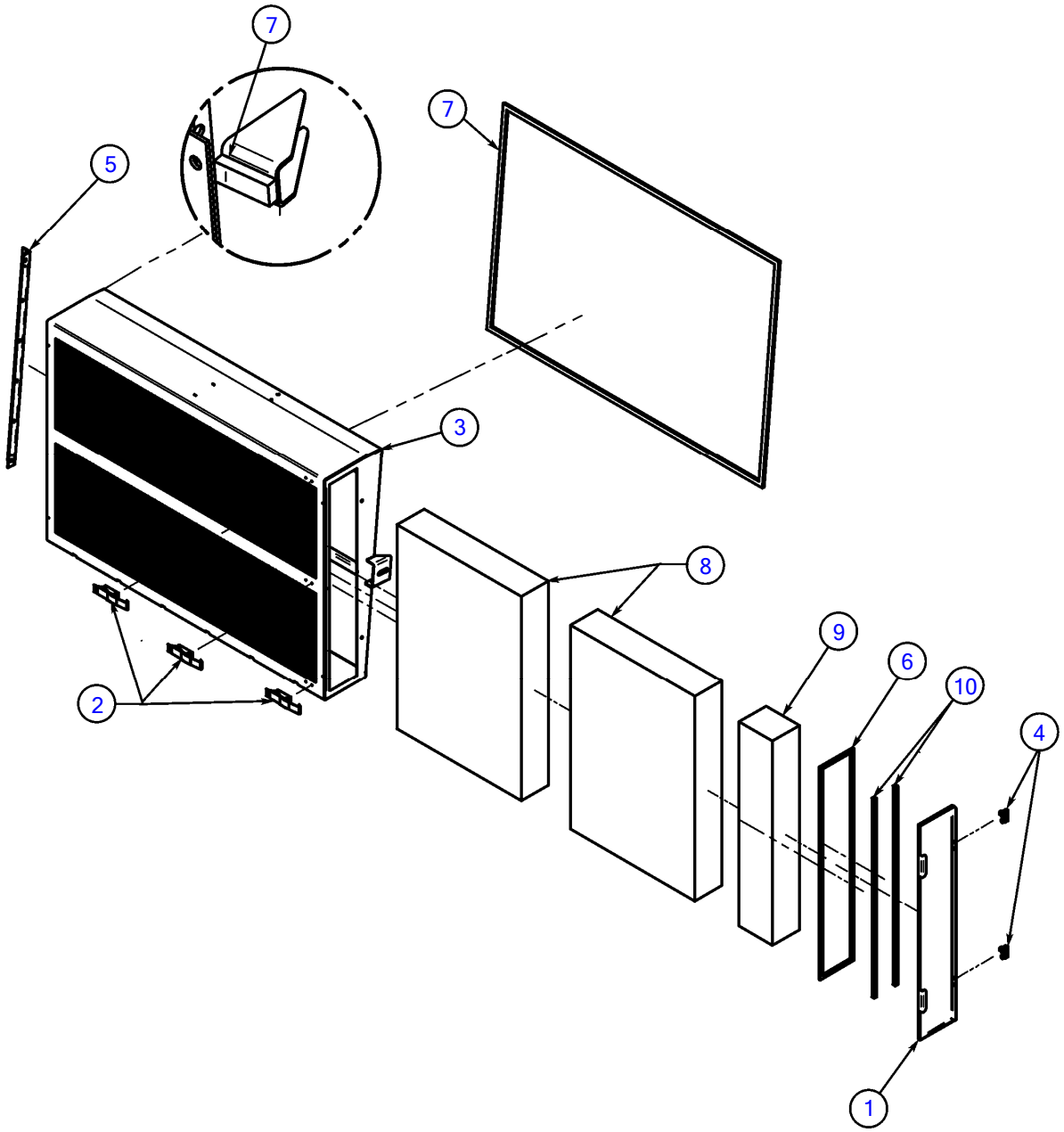
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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
	R4234075		INLET DOOR ASSEMBLY		11/12/12
1	R4234050	1	· DOOR, ACCESS		
2	R4231033	3	· LATCH, ACCESS DOOR - DRIFT ELIMINATOR		
3	R4234076	1	· DOOR HOUSING		
4	R4262885	2	· HINGE		
5	R4262886	1	· HINGE, DOOR HOUSING		
6	R4264303	1	· SEAL, DOOR - 1/2" X 1/4"		
7	R4262920	1	· SEAL, DOOR - 3/4" X 3/8"		
8	R4227743	2	· DRIFT ELIMINATOR, 25-1/4" X 36"		
9	R4227744	1	· DRIFT ELIMINATOR, 6-3/4" X 36"		
10	R4234080	2	· SEAL, DOOR - 1/2" X 1/2" X 52"		
			NOTE:		
			· FOR OPERATION AND SERVICE INSTRUCTIONS SEE THE		
			· AIR CLEANER SYSTEM INSTALLATION AND OPERATIONS		
			· MANUAL IN THE SERVICE MANUAL.		
		REF	DRAWING, INLET DOOR ASSEMBLY (R423407501)		11/12/12

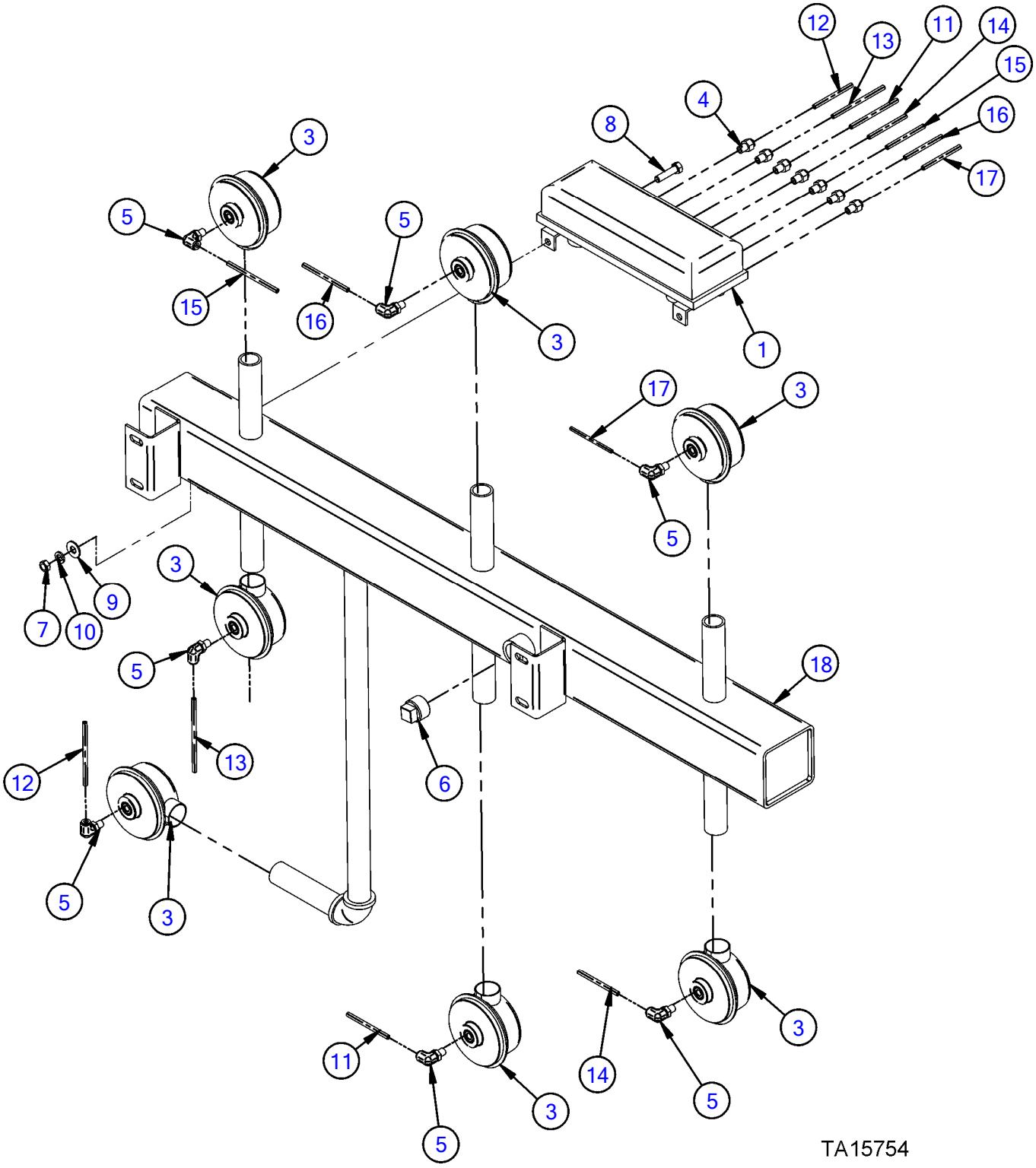
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AIR CLEANER MANIFOLD ASSEMBLY



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AIR CLEANER MANIFOLD ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4234081		MANIFOLD ASSEMBLY		1/9/17
1	R4234077	1	· SOLENOID ENCLOSER, 7 VALVE		
	R4262904	7	· · VALVE, SOLENOID		1/9/17
	R4234074	7	· · · COIL, REPLACEMENT		1/9/17
2	R4262929	1	· PLUG, 1"		
3	R4278232	7	· VALVE, PULSE - SQUARE BODY ROUND DIAPHRAGM (PAGE 2.16-2.16D)		3/3/14
	R4278233	7	· · REPAIR KIT, PULSE VALVE		3/3/14
4	R4262894	7	· CONNECTOR, MALE - 1/4" O.D. PLASTIC		
5	R4262892	7	· CONNECTOR, ELBOW - 1/4" O.D. PLASTIC		
6	R4262893	1	· PLUG, 1"		
7	R4244623	2	· NUT, 3/8"-16		11/20/12
8	R4009640	2	· BOLT, 3/8"-16 X 1-1/2"		11/20/12
9	R0233042	2	· FLATWASHER, 3/8"		11/20/12
10	R0753123	2	· LOCKWASHER, 3/8"		11/20/12
11	R4262958	AR	· TUBING, 1/4" O.D.		11/20/12
12	R4262958	AR	· TUBING, 1/4" O.D.		11/20/12
13	R4262958	AR	· TUBING, 1/4" O.D.		11/20/12
14	R4262958	AR	· TUBING, 1/4" O.D.		11/20/12
15	R4262958	AR	· TUBING, 1/4" O.D.		11/20/12
16	R4262958	AR	· TUBING, 1/4" O.D.		11/20/12
17	R4262958	AR	· TUBING, 1/4" O.D.		11/20/12
18	R4234082	1	· MANIFOLD STRUCTURE		10/27/16
	R4286223	REF	VALVE ASSEMBLY, SOLENOID - 24V (OPTIONAL)	7	10/12/16
	R4245973	REF	CABLE ASSEMBLY, EURO TO OPEN - 6M (OPTIONAL)	7	10/12/16
		REF	DRAWING, MANIFOLD ASSEMBLY (R423408104)		10/27/16

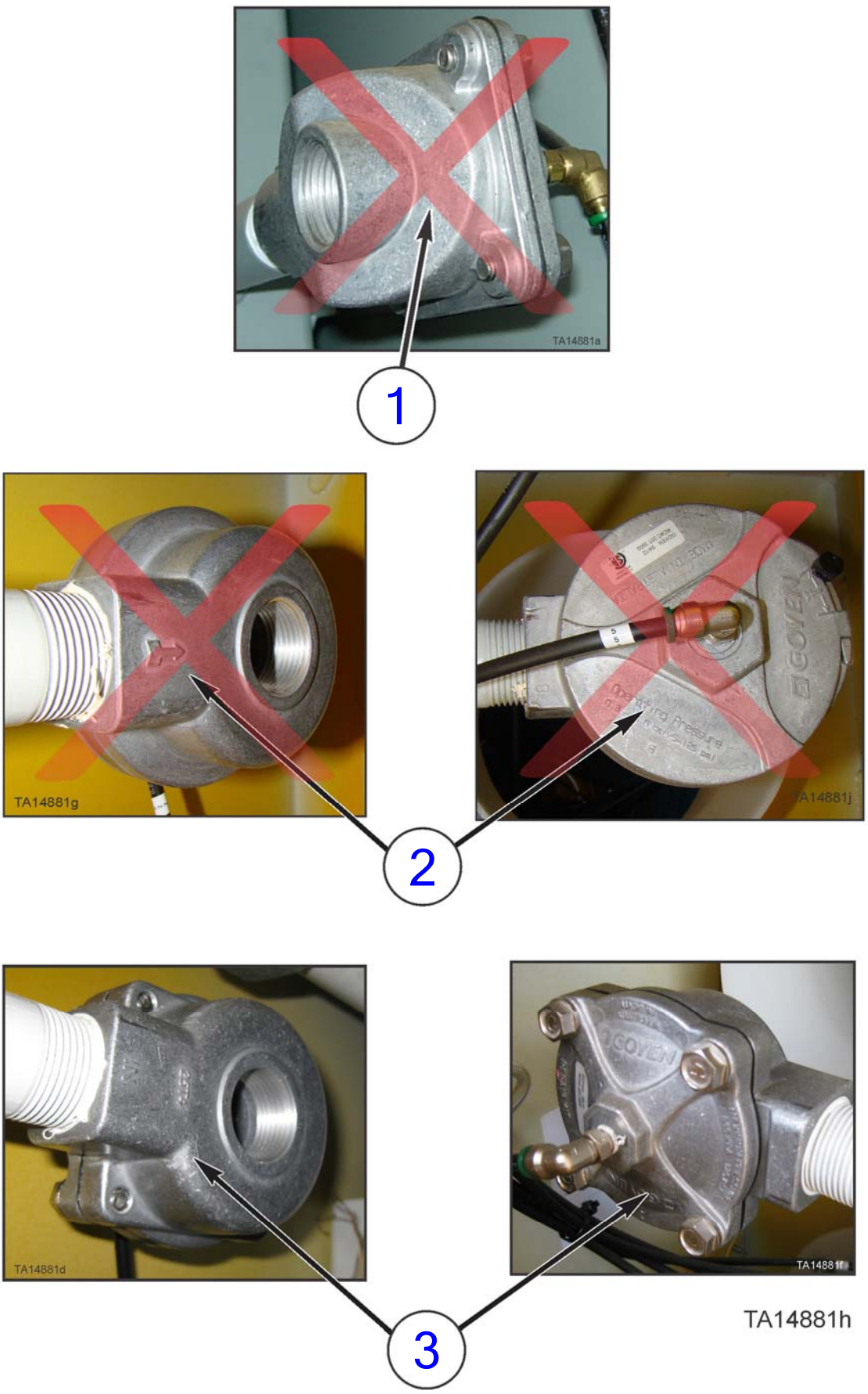
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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.		

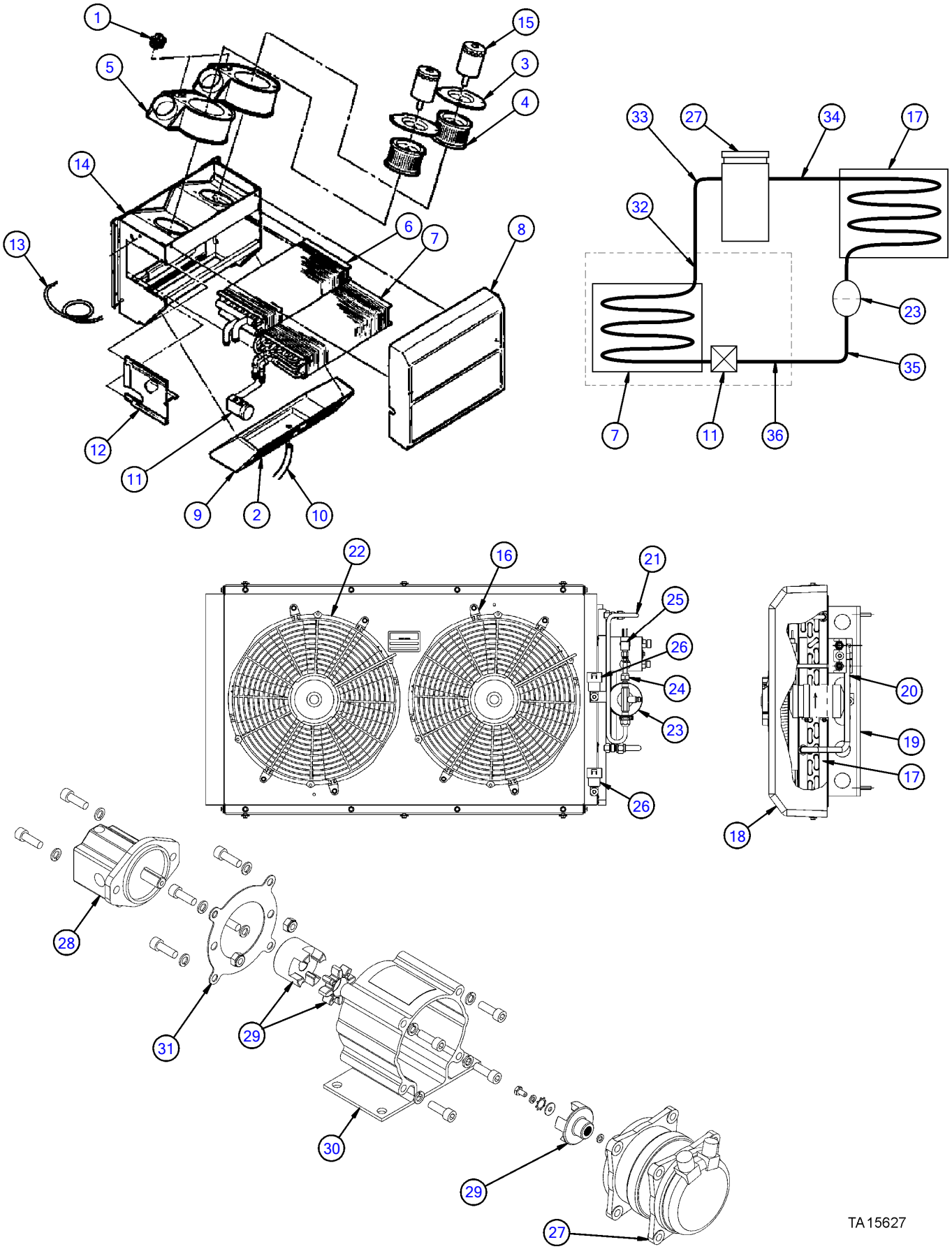
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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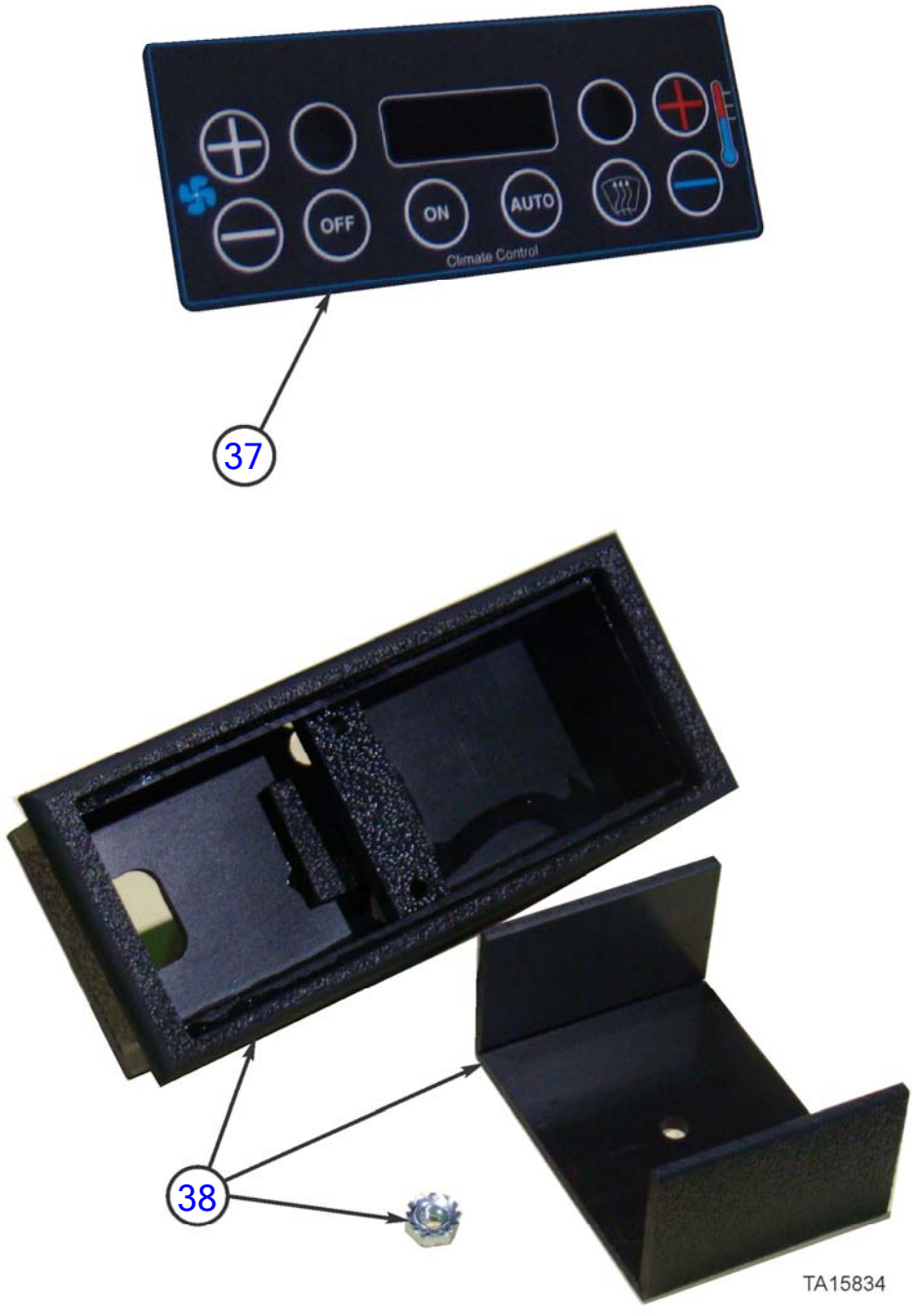
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A/C AND HEATER SYSTEM



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4268480		A/C AND HEATER ASSEMBLY		3/5/19
	R4275682	1	· A/C AND HEATER ASSEMBLY		
1	N.P.N.		· · NOT USED		10/17/18
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		10/17/18
15	R4268483	2	· · MOTOR, 24V RFI - 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		10/17/18
23	R4268485	1	· · DRIER, CONDENSER		
24	R4275709	1	· · TUBE ASSEMBLY, #6 - CONDENSER		
25	R4268486	1	· · SWITCH, BINARY - CONDENSER		
26	R4268487	2	· · RELAY, 24V - CONDENSER		
	R4274382	1	· COMPRESSOR/MOTOR ASSEMBLY - A/C		
27	R4297366	1	· · COMPRESSOR WITH VERTICAL MANIFOLD		3/5/19
	R4268493	1	· · · COMPRESSOR, TM-15 NO CLUTCH - A/C		3/5/19
	R4291158	1	· · · MANIFOLD, VERTICAL		3/5/19
28	R4268492	1	· · MOTOR, HYDRAULIC - A/C		
29	R4274383	1	· · COUPLING, A/C COMPRESSOR MOTOR		
30	R4275707	1	· · SHROUD, A/C COMPRESSOR MOTOR		
31	R4275708	1	· · MOUNT PLATE, A/C COMPRESSOR MOTOR		
32	R4275688	1	· HOSE, #12 - CAB TO EVAPORATOR		6/17/13
33	R4275689	1	· HOSE, #12 - CAB TO COMPRESSOR		6/17/13
34	R4275687	1	· HOSE, #8 - COMPRESSOR TO CONDENSER		6/17/13
35	R4275685	1	· HOSE, #6 - CONDENSER TO CAB		6/17/13
36	R4275686	1	· HOSE, #6 - CAB TO EVAPORATOR		6/17/13
37	R4274341	1	· AUTOMATIC TEMPERATURE CONTROL PANEL, A/C AND HEATER (SEE NOTE)		5/21/15
38	R4274650	1	· MOUNT BOX, CONTROL HEAD		3/12/14
	R4268490	1	· ECU MODULE, 12/24 VOLT - A/C AND HEATER		
	R4268489	1	· SENSOR, TEMPERTURE - WITH DEUTSCH PLUG, A/C AND HEATER		
	R4268484	1	· VALVE, WATER - 12/24V - A/C AND HEATER		
	R4279580	1	· · VALVE, WATER - 12/24V - A/C AND HEATER		6/24/13
	R4278972	1	· · HOSE, HEATER - MOLDED		6/24/13
			NOTE:		5/21/15
			· WHEN THE AUTOMATIC TEMPERATURE CONTROL (ATC) PANEL FOR THE UNIT IS REPLACED,		5/21/15

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			· THE SYSTEM MUST BE PROGRAMMED. REFER TO VENDOR INFORMATION IN SERVICE MANUAL		5/21/15
			· VL 111C - ATC INSTRUCTIONS, FOR PROGRAMMING INSTRUCTIONS.		5/21/15
		REF	DRAWING, A/C AND HEATER SYSTEM (R426848005)		4/10/12

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L-1850-2210 PARTS MANUAL
Generator

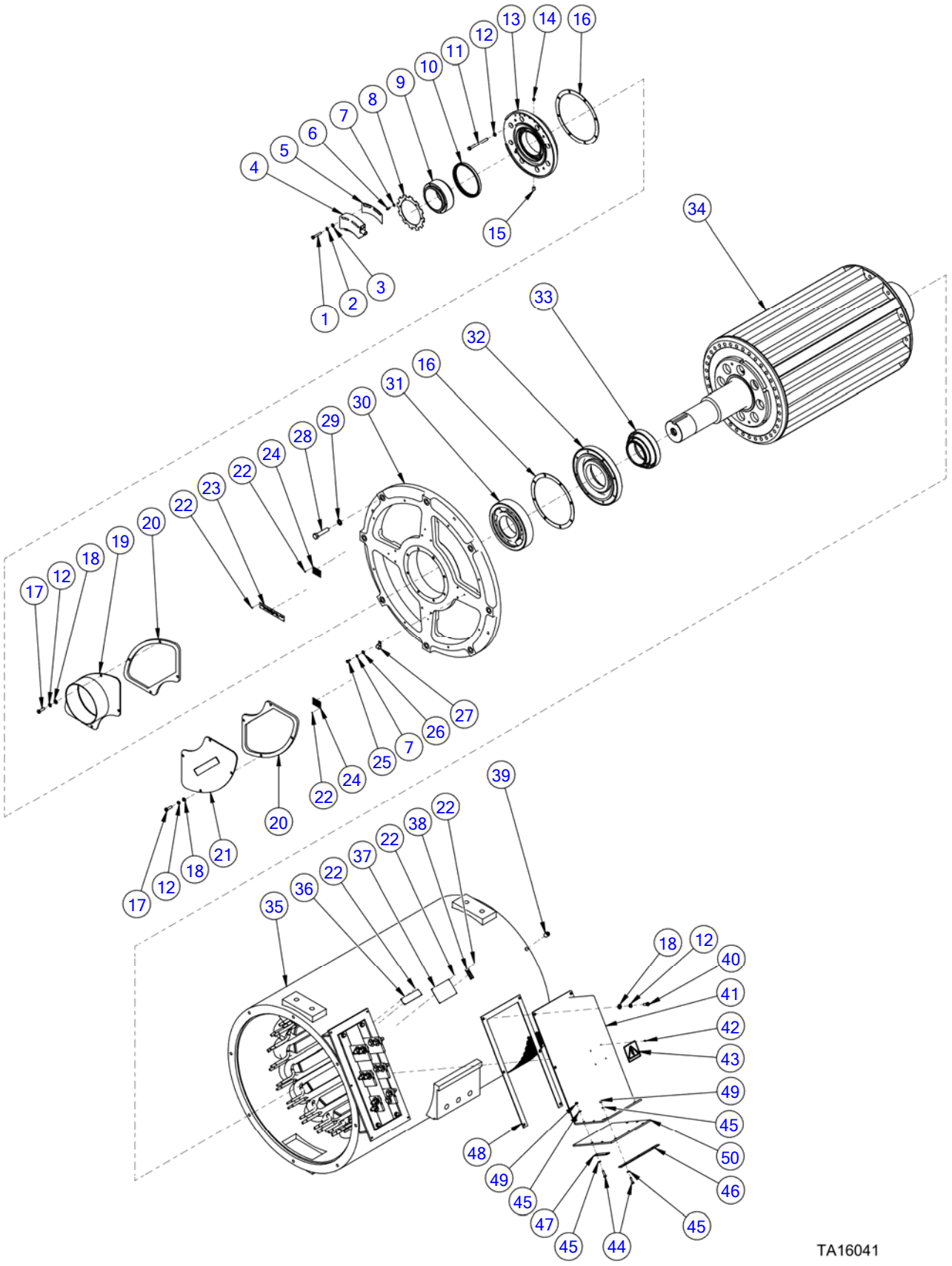
SECTION OR GROUP TITLE
SR G200 GENERATOR ASSEMBLY
SR G200 GENERATOR GROUP
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NOTE: Many of the parts for factory-installed optional components are found in Section 9 of the Parts Manual, which is titled MISCELLANEOUS.
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SR G200 GENERATOR ASSEMBLY



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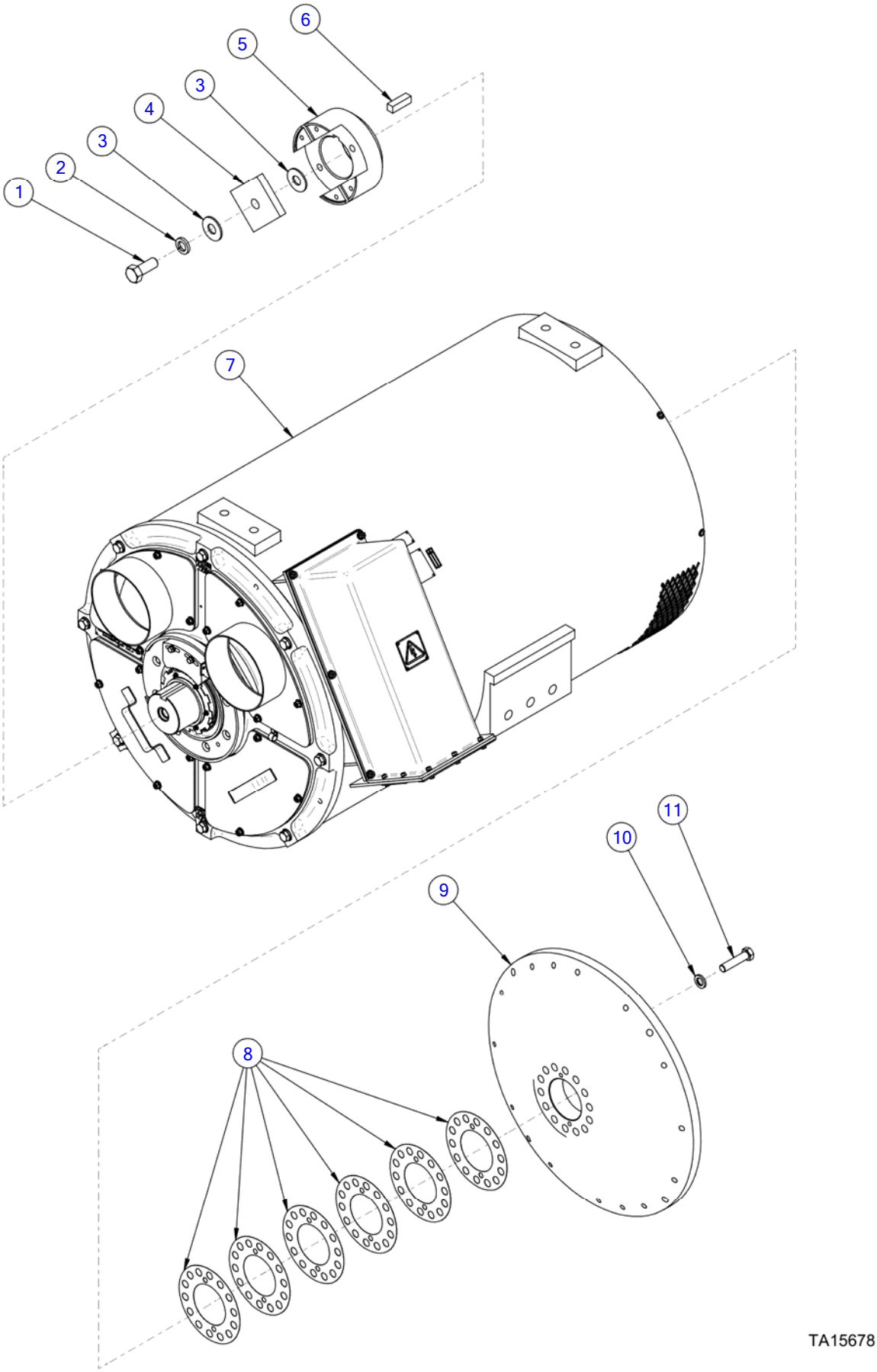
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4266801		SR G200 GENERATOR ASSEMBLY		6/9/17
1	R4009629	2	· BOLT, 5/16"-18 X 2"		
2	R0264174	2	· LOCKWASHER, 5/16"		
3	R0753118	2	· FLATWASHER, 5/16"		
4	R4259036	1	· CARRIER ASSEMBLY, RPT - G50		
5	R4259038	1	· SHIM PACK, RPT CARRIER - G50		
6	R4001801	6	· BOLT, 1/4"-20 X 1/2"		
7	R0213584	7	· LOCKWASHER, 1/4"		
8	R4257758	1	· SHUTTER, RPT - G50		
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	30	· 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	R0808476	16	· BOLT, 3/8"-16 X 1-1/4"		
18	R0808221	22	· FLATWASHER, 3/8"		
19	R4240443	2	· COVER, ACCESS - WITH INLET		
20	R4180893	4	· GASKET, ACCESS COVER		
21	R4180891	2	· COVER, ACCESS - WITH HANDLE		
22	R4032268	20	· SCREW, DRIVE - #2 X 3/16"		
23	R4286588	1	· TAG, GREASE - KLUBER ISOFLEX TOPAS L152		3/31/17
24	R4100864	2	· TAG, CAUTION - GENERATOR WITH OUT COVERS		
25	R0812278	1	· BOLT, 1/4"-20 X 5/8"		
26	R4010923	1	· FLATWASHER, 1/4"		
27	R4257612	1	· CLAMP, CABLE - INSULATED, 5/8"		
28	R0021634	8	· BOLT, 5/8"-11 X 3"		
29	R0021541	8	· LOCKWASHER, 5/8"		
30	R4185941	1	· ENDBELL, GENERATOR - 7B NDE		
31	R4243426	1	· BEARING, BALL - INSULATED		
32	R4264728	1	· RETAINER, BEARING - INNER, FOR RPT		
33	R4264727	1	· RACE, INNER LABYRINTH - FOR RPT		
34	R4265470	1	· ROTOR ASSEMBLY, G200		
35	R4265473	1	· GENERATOR, SR G200		
36	R4278455	1	· PLATE, NAME		6/9/17
37	R4265474	1	· PLATE, DATA - G200		6/9/17
38	R0864439	1	· TAG, ROTATION		
39	R4016006	2	· SETSCREW, 3/4"-10 X 1" - HEX CSK.		
40	R0810971	6	· BOLT, 3/8"-16 X 1"		
41	R4264737	1	· GASKET, COVER		
42	R4251580	4	· BOLT, #6-32 X 3/8" - TOPTITE		
43	R4268617	1	· LABEL, SAFETY - HIGH VOLTAGE, INTERNATIONAL SYMBOL - S.S.		
44	R0814157	7	· BOLT, 1/4"-20 X 1"		
45	R0213584	14	· LOCKWASHER, 1/4"		
46	R4250167	1	· CLAMP BAR, 9-3/4"		
47	R4250168	2	· CLAMP BAR, 3-3/4"		
48	R4264737	1	· GASKET, COVER		
49	R4012935	7	· NUT, 1/4"-20		
50	R4275426	1	· SEAL, LEAD EXIT		
NS	R0459283		· THREAD COMPOUND, LOCTITE #2760		
	R4220928		· THREAD COMPOUND, LOCTITE #222		
	R4216206		· GREASE, EXXON - UNIREX, N2, 35 LB PAIL		
	R4214060		· PAINT, RAVEN BLACK - QUICK DRY ENAMEL		
	N.P.N.		SR G200 GENERATOR GROUP (PAGE 6.1-6.1B)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
		REF	DRAWING, GENERATOR ASSEMBLY - G200 SR (R426680100)		

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SR G200 GENERATOR GROUP



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4264707		SR G200 GENERATOR GROUP		11/9/15
1	R0986238	1	· BOLT, 1"-14 X 2-1/2"		
2	R0021544	1	· LOCKWASHER, 1"		
	R4245660	1	· HUB, DRIVE - WITH KEYWAY, INSULATED		7/11/13
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	R4266801	1	· SR G200 GENERATOR ASSEMBLY (PAGE 3.1-3.1A)		11/9/15
8	R4164561	AR	· SHIM, .007"	6	11/14/13
9	R4238858	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 - G200 SR (R426470710)		11/9/15

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

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L-1850-2210 PARTS MANUAL
Instrument Panel Components

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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L-1850-2210 PARTS MANUAL
Electric Control Components

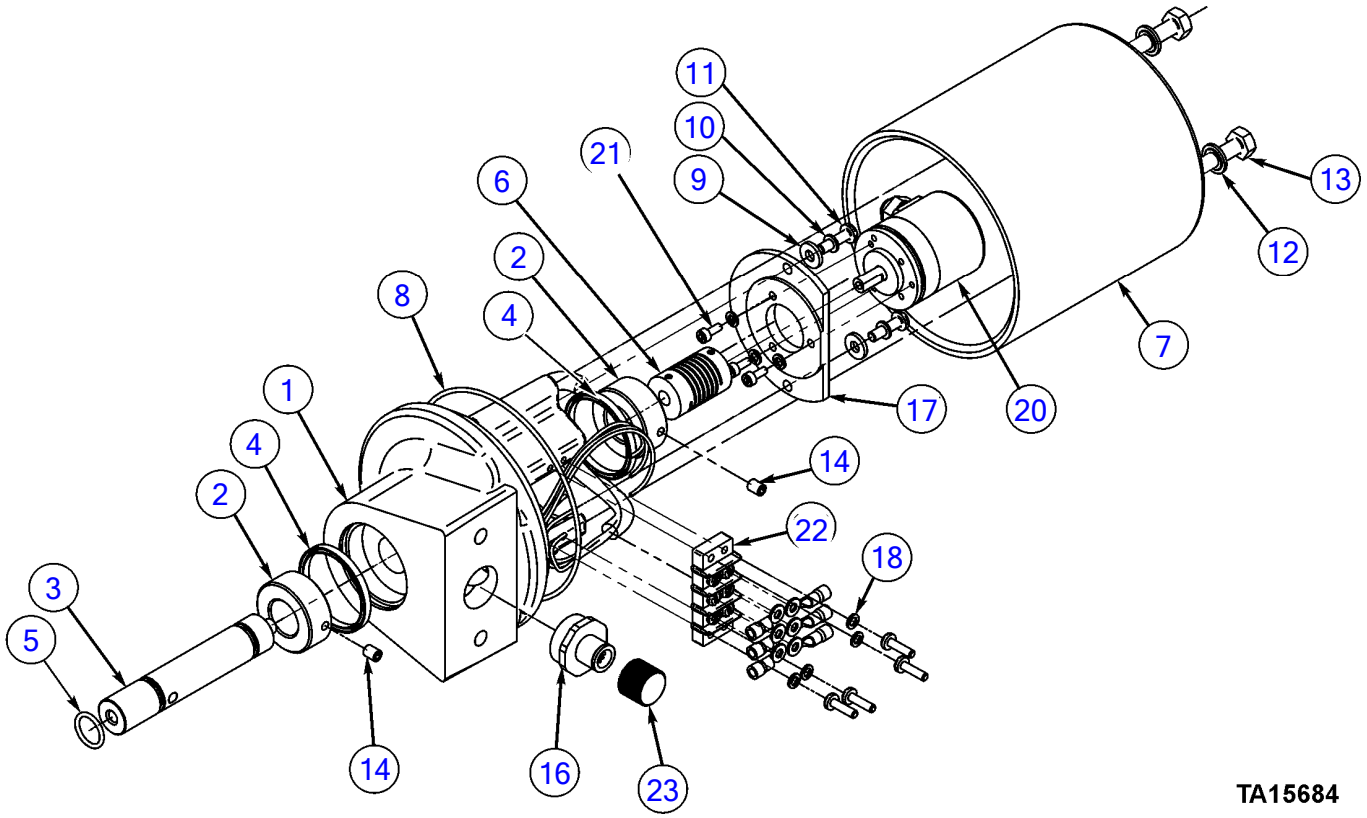
SECTION OR GROUP TITLE
POSITION INDICATOR ASSEMBLY
SPEED CONTROL PEDAL ASSEMBLY
STEERING POSITION INDICATOR GROUP
LIFTARM LEVEL INDICATOR GROUP
BELLCRANK POSITION INDICATOR GROUP
HIGH VOLTAGE CABINET ASSEMBLY
CONVERTER ASSEMBLY
BRAKING GRID
BATTERY BOX ASSEMBLY
ENGINE INTERFACE BOX ASSEMBLY
SR COOLER 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
HIGH VOLTAGE CABINET SCHEMATIC
LOW VOLTAGE CONTROL CABINET ASSEMBLY
LINCS II LOW VOLTAGE PANEL ASSEMBLY
LINCS II RELAY PANEL ASSEMBLY
FRONT FRAME HARNESS GROUP
REAR FRAME HARNESS GROUP
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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POSITION INDICATOR ASSEMBLY



TA15684

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POSITION INDICATOR ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4259941		POSITION INDICATOR ASSEMBLY		11/16/12
1	R4253654	1	· HOUSING, POSITION SENSOR		
2	R4247876	2	· COLLAR, LOCKING		
3	R4247877	1	· SHAFT, POSITION INDICATOR		
4	R4247878	2	· SEAL, POSITION INDICATOR		
5	R4247879	2	· O-RING, 1/2" I.D. - BUNA N		
6	R4247855	1	· U-JOINT, HELICAL FLEXURED		
7	R4253655	1	· COVER, POSITION SENSOR		
8	R4247845	1	· O-RING, 3-1/2" I.D. - BUNA N		
9	R4010922	2	· FLATWASHER, 3/16"		
10	R0819904	2	· LOCKWASHER, 3/16"		
11	R0989217	2	· SCREW, #8-32 X 5/8"		
12	R4253656	2	· WASHER, SEAL - 1/4"		
13	R0730503	2	· BOLT, 1/4"-20 X 2-3/4"		
14	R0730514	2	· SETSCREW, #10-24 X 1/4"		
15	R4248755	AR	· LUBRICANT, 3 OZ. TUBE		
16	R4259942	1	· CONNECTOR, MALE - 5 PIN		
17	R4259940	1	· MOUNT PLATE, ENCODER		
18	R0234944	7	· LOCKWASHER, 1/8"		
19	R0824385	4	· SCREW, #6-32 X 1/2"		
20	R4257857	1	· ENCODER, ABSOLUTE - 360 deg. TURCK		
21	R4259901	3	· SCREW, 3 MM X 8 - SOCKET HD.		
22	R4076032	1	· TERMINAL STRIP, 3 TERM.		
23	R4274687	1	· CAP, SEALING - 12M		11/16/12
			NOTE:		
	R4255524	REF	· TOOL, SEAL INSTALLATION - POSITION INDICATOR	1	
		REF	DRAWING, POSITION INDICATOR ASSEMBLY (R425994103)		

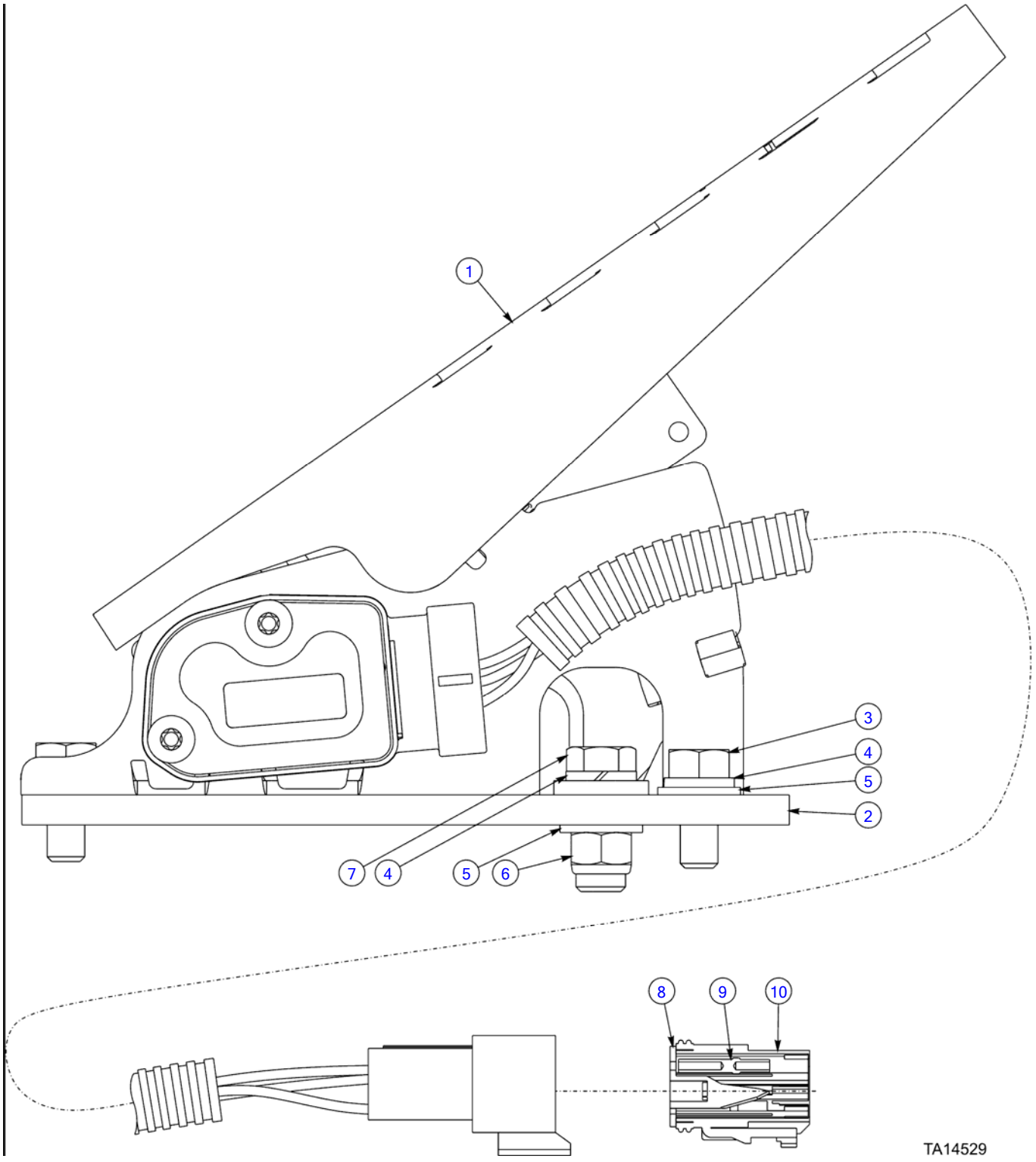
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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
	R4259996		SPEED CONTROL PEDAL ASSEMBLY		8/21/09
1	R4259998	1	· PEDAL ASSEMBLY, SPEED CONTROL - 35 deg. FIXED		8/21/09
	R4259999	REF	· PEDAL ASSEMBLY, SPEED CONTROL - 40 deg. FIXED		8/21/09
2	R4255397	1	· ADAPTER PLATE, PEDAL ASSEMBLY		
3	R0988144	3	· BOLT, 5/16"-18 X 3/4"		
4	R0264174	5	· LOCKWASHER, 5/16"		
5	R0753118	4	· FLATWASHER, 5/16"		
6	R4008438	2	· LOCKNUT, 5/16"-18 - NYLON		
7	R4009626	2	· BOLT, 5/16"-18 X 1"		
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 OR R4259999.		8/21/09

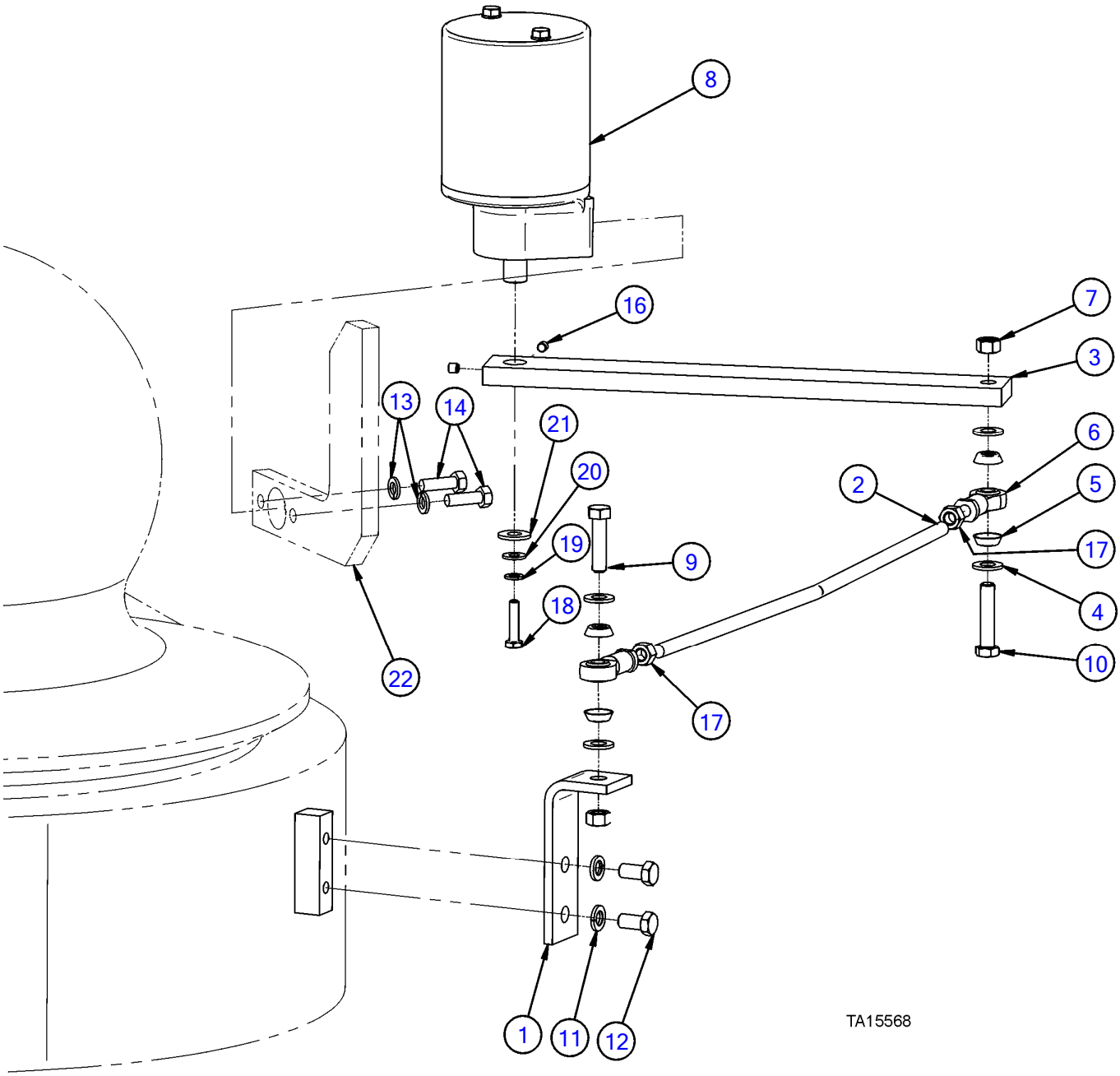
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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STEERING POSITION INDICATOR GROUP



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4266323		STEERING POSITION INDICATOR GROUP		6/20/19
1	R4253662	1	· MOUNT ARM, STEERING LIMIT - FRONT FRAME		
2	R4253661	1	· ROD, THREADED - 3/8"-24 X 17-1/2" - BENT		
3	R4253660	1	· DRIVE BAR, POSITION INDICATOR		
4	R0808221	4	· FLATWASHER, 3/8"		
5	R4247800	4	· SEAL		
6	R4009000	2	· ROD END, SPHERICAL BEARING		
7	R4146758	2	· LOCKNUT, 3/8"-16		
8	R4259941	1	· POSITION INDICATOR ASSEMBLY		
9	R4009640	1	· BOLT, 3/8"-16 X 1-1/2"		
10	R0829683	1	· BOLT, 3/8"-16 X 1-3/4"		
11	R0753123	2	· LOCKWASHER, 3/8"		
12	R0810970	2	· BOLT, 3/8"-16 X 3/4"		
13	R0264174	2	· LOCKWASHER, 5/16"		
14	R4010374	2	· BOLT, 5/16"-24 X 1"		
15	R1510360	AR	· LUBRICANT, #630-AA		
16	R0088711	2	· SETSCREW, 1/4"-20		
17	R0753124	2	· NUT, 3/8"-24		
18	R0417597	1	· BOLT, 1/4"-20 X 1/2"		6/20/19
19	R0213584	1	· LOCKWASHER, 1/4"		
20	R4010923	1	· FLATWASHER, 1/4"		
21	R0043735	1	· FLATWASHER, 5/16"		
22	R4253659	REF	· MOUNT BRACKET, POSITION INDICATOR		
		REF	DRAWING, STEERING POSITION INDICATOR GROUP (R426632302)		6/20/19

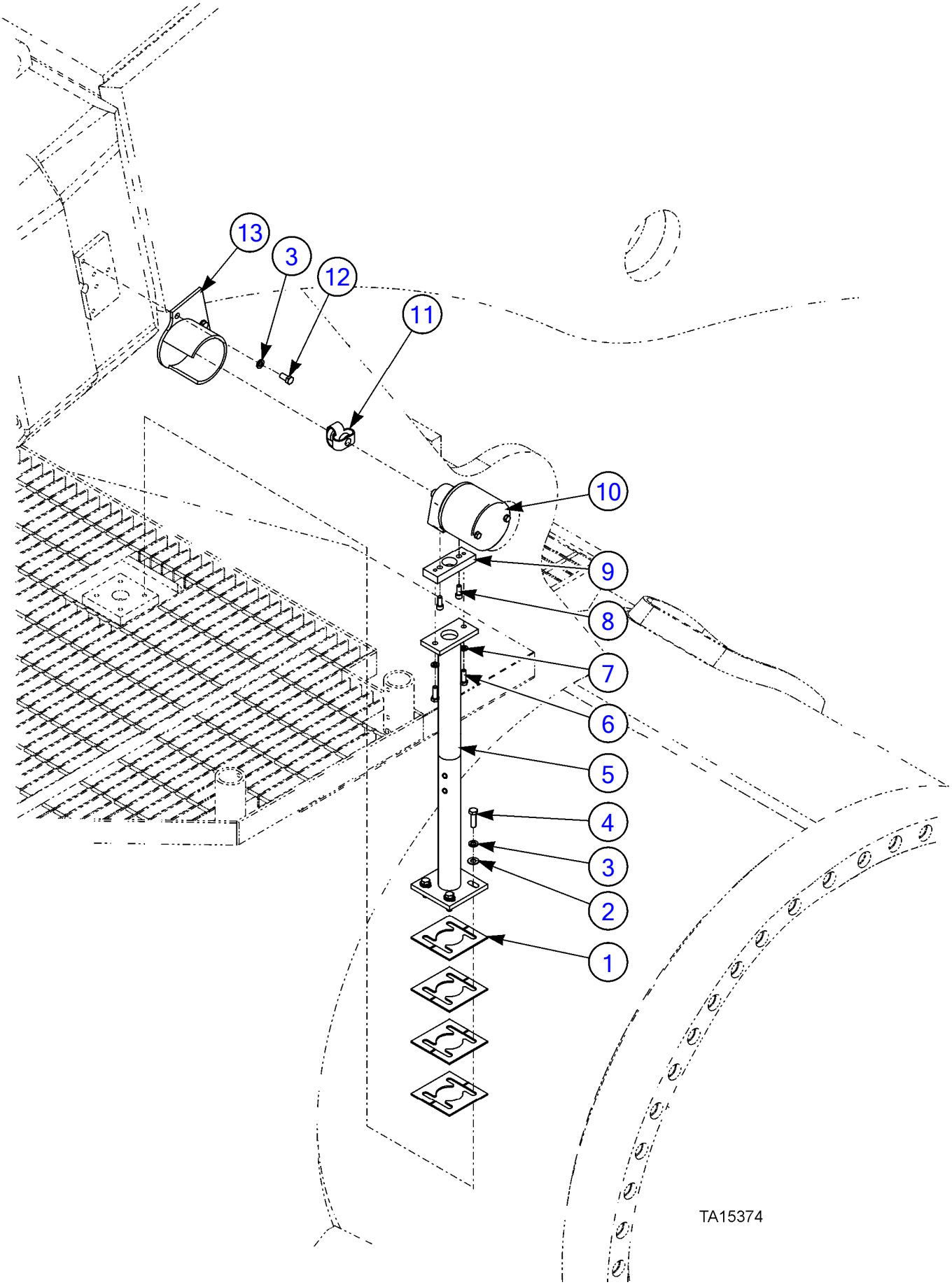
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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
	R4265182		LIFTARM LEVEL INDICATOR GROUP		6/20/19
1	R4247854	AR	· SHIM, 11 GAUGE	16	
	R4255626	AR	· SHIM, 11 GAUGE	3	
2	R0808221	4	· FLATWASHER, 3/8"		
3	R0753123	7	· LOCKWASHER, 3/8"		
4	R0808476	4	· BOLT, 3/8"-16 X 1-1/4"		
5	R4261345	1	· MOUNT STRUCTURE, BUCKET POSITION INDICATOR, ADJ.		
6	R4009626	2	· BOLT, 5/16"-18 X 1"		
7	R0264174	2	· LOCKWASHER, 5/16"		
8	R4001967	2	· CAPSCREW, 5/16"-24 X 3/4"		
9	R4253623	1	· ADAPTER BAR, POSITION INDICATOR ASSEMBLY		
10	R4259941	1	· POSITION INDICATOR ASSEMBLY (PAGE 5.5-5.5A)		
11	R4244974	1	· COUPLING, FLEXABLE		
12	R0810970	3	· BOLT, 3/8"-16 X 3/4"		
13	R4247873	1	· SHIELD STRUCTURE, COUPLING		
			DRAWING, LIFTARM LEVEL INDICATOR GROUP (426518201)		6/20/19

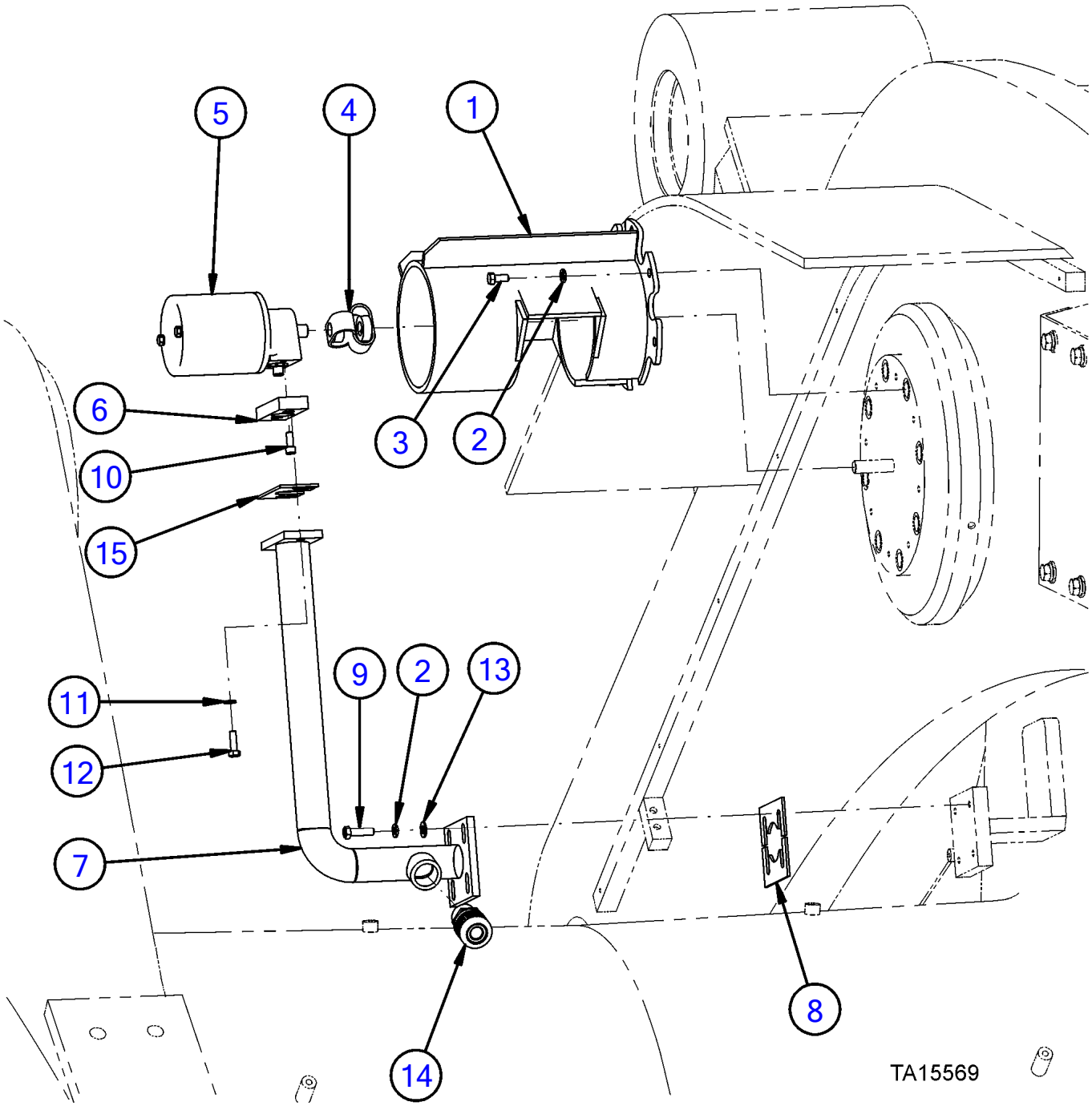
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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BELLCRANK LEVEL INDICATOR GROUP



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4266338		BELLCRANK LEVEL INDICATOR GROUP		
1	R4253632	1	· GUARD STRUCTURE, BELLCRANK POSITION INDICATOR		
2	R0753123	10	· LOCKWASHER, 3/8"		
3	R0810970	6	· BOLT, 3/8"-16 X 3/4"		
4	R4244974	1	· COUPLING, FLEXABLE		
5	R4259941	1	· POSITION INDICATOR ASSEMBLY		
6	R4253623	1	· ADAPTER BAR, POSITION INDICATOR ASSEMBLY		
7	R4270276	1	· MOUNT STRUCTURE, BELLCRANK LIMIT		
8	R4247854	AR	· SHIM, 11 GAUGE	6	
9	R0808476	4	· BOLT, 3/8"-16 X 1-1/4"		
10	R4001967	2	· CAPSCREW, 5/16"-24 X 3/4"		
11	R0264174	2	· LOCKWASHER, 5/16"		
12	R4009626	2	· BOLT, 5/16"-18 X 1"		
13	R0808221	4	· FLATWASHER, 3/8"		
14	R4030803	1	· CONNECTOR, CABLE		
15	R4255626	1	· SHIM, 11 GAUGE		
		REF	BELLCRANK LEVEL INDICATOR GROUP (R426633800)		

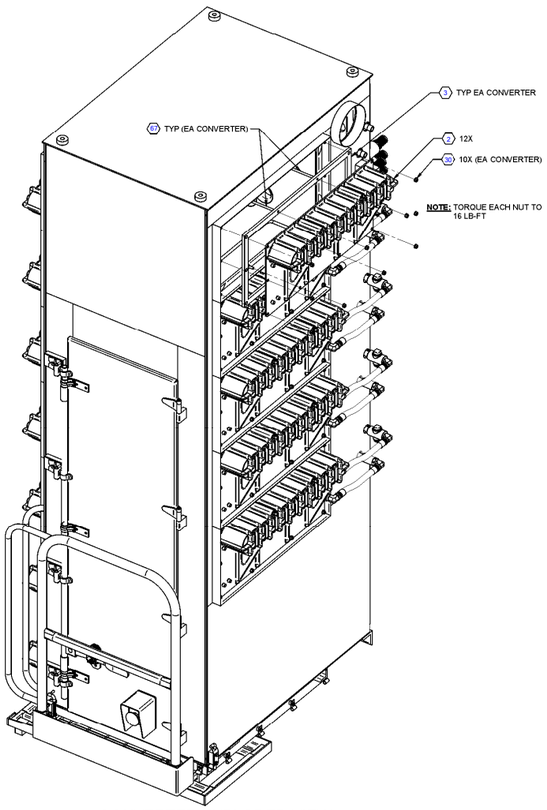
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

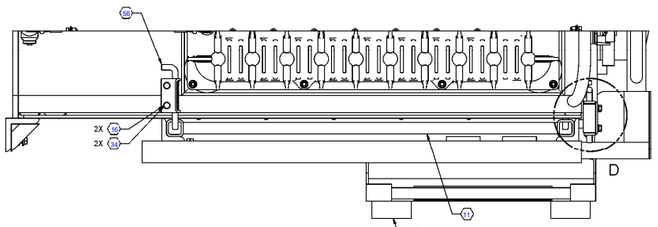
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HIGH VOLTAGE CABINET ASSEMBLY

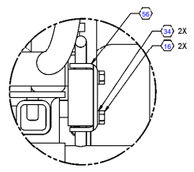


CONVERTER EXPLODED VIEW
COOLANT CONNECTORS NOT SHOWN FOR CLARITY

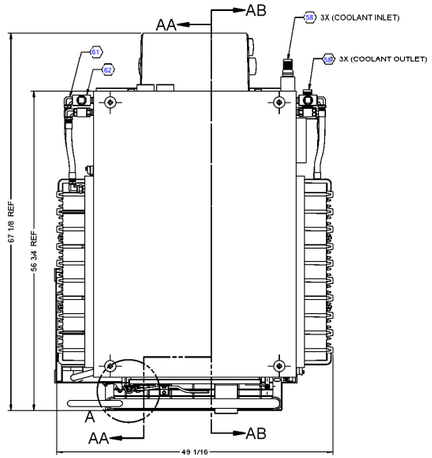


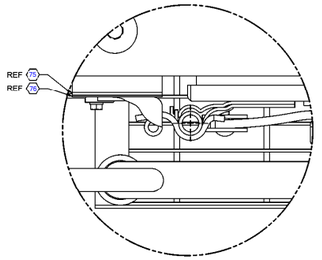
SECTION E-E
1:4

NOTE: (SEE DETAIL D) ATTACH ITEM 56 AFTER SLIDING SLIDEOUT PLATFORM (ITEM 10) IN PLACE TO PREVENT DISLODGING PLATFORM.

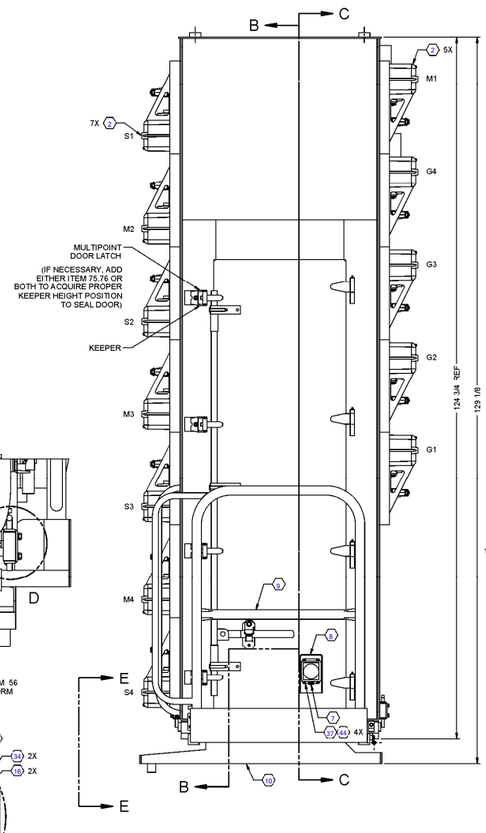


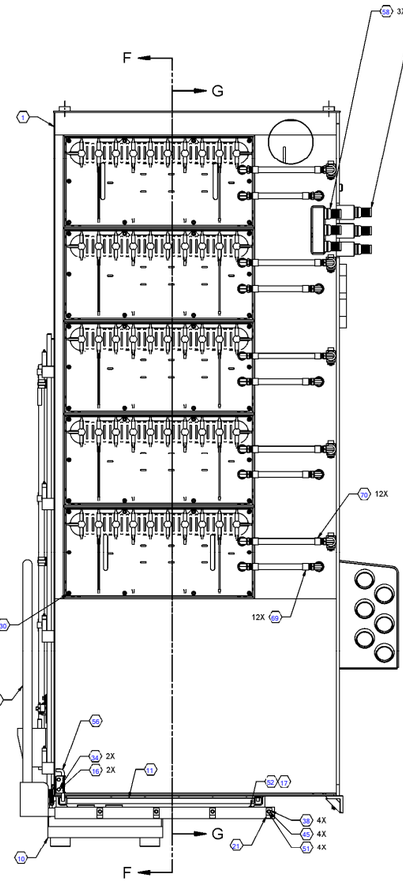
DETAIL D
1:2





DETAIL A
1:2





ITEM	PART NO.	QTY	DESCRIPTION
80	4274256	12	CHECK VALVE 3/4 IN-LINE
79	4274294	1	LEAD DETAIL L1850/2350 HV BOX
78	4069344	200	CABLE TIE 1-5"-200LBS BLK
77	4148481	125 FT	RUBBER NEOPRENE 1/16" X 5"
76	4273151	REF	SHIM .063 2.00 2.25
75	4273152	REF	SHIM .13 2.00 2.25
74	4018729	100	CABLE TIE 14-1/2" BENT TIP/BLK
73	4267767	REF	JIG SR CONV WIRING
72	4259298	REF	TEMPLATE STRUCTURE, CONVERTER PANEL
71	4269377	1	HARNESS SR 12 CONVERTER
70	4262075	12	HOSE 1015 12 13.3 OJ OJ CSS
69	4262074	12	HOSE 1015 12 11.0 OJ OJ CSS
67	4265811	24	ROD THD 7.00 LG 3/8-16 EA END
65	4009640	8	BOLT HX .375 1.500 NC G8
63	4267818	16 FT	SPONGE EXPANDED SILICONE 1 X .38
62	4035388	12	DRAIN VALVE
61	4002441	24	FTG HYD 90 12 MJ 12 MP
60	4002481	24	FTG HYD 90 12 MJ 12 FJ SWVL
59	4013080	24	FTG HYD 0 8 MO 12 MJ
58	4267835	6	FITTING BARBED 1-1/2 ID HOSE
57	4009540	2	BOLT HX 1-1/4-7 UNC X 2-1/4
56	4274249	3	LATCH HINGE LH BOLT-ON
54	0808476	42	BOLT HX .376 1.250 NC G8
53	0810971	2	BOLT HX .375 1.00 NC G8 FT
52	0810970	2	BOLT HX .375 .750 NC G8 FT
51	0812278	5	BOLT HEX .250 .63 NC G8 FT
50	4250473	2	WASHER RETAINING SR BOX MOUNT
49	0021545	2	WASHER LOCK SPRING 1.250 2.045 .312
47	0753123	86	WASHER LOCK SPR .375 .68 .09
45	0213584	5	WASHER LOCK SPR .25 .49 .06
44	4010907	5	WASHER LOCK SPR .190 .334 .047
43	0182634	4	WASHER LOCK EXT .195 .41 .03
42	4010914	4	WASHER EXT STAR #6
39	0808221	84	WASHER FLAT .375 .81 .08
38	4010923	5	WASHER FLAT .250 .63 .08
37	0810880	5	WASHER FLAT .219 .50 .07
36	0725125	4	WASH FLT TYPE A #6
35	0182170	4	MSCR PH #10-32 NF X 1.0
34	0264174	6	WASHER LOCK SPR .323 .59 .08
33	4010283	4	MSCR PH #10 .500 NF
32	4012415	2	MSCR PH #6-32 UNC X 1.00
31	0260712	5	MSCR PH #6-32 UNC-2A x 7/16 LG
30	4255295	120	KEPNUT 3/8-16 UNC
29	0230017	4	NUT HX #10-32 NF
28	0819903	2	NUT MSCR HX #6 NC
26	0987618	12	CLAMP HALF 3.00
24	4014475	16	CABLE CLAMP INSL 2.00 .406
23	0986146	2	CLAMP CABLE INSL 1.75 .406
22	0986144	14	CLAMP CABLE INSL 1.25 .406
21	4153802	5	CABLE CLAMP INS 1/2
20	4250840	9	STR 3 INCH CLAMP HALVES
19	4259249	1	METAL CLIP,MOUNTING BRACKET
18	4060928	2	DOOR INTERLOCK SWITCH
17	0812921	33	NUT HX 0.375 NC G8 PL
16	4009626	6	BOLT HX .313 1.000 NC G8 FT
15	4258790	1	LAMP WORK LED 9-32V
12	4267760	1	STR LADDER 19-3/8 X 42
11	4274252	1	STR SR CONV PLATFORM
10	4269410	1	STR SLIDE STEP/PLATFORM
9	4269414	1	STR HANDRAIL SLIDE STEP/PLTFRM
8	4258526	1	STR GUARD EMERGENCY STOP
7	4258798	1	ASSY PUSHBUTTON E-STOP
6	4259354	1	ASSEMBLY ISOLATION MONITOR
5	4267795	2	ASSY FUSE PANEL 8MTR 4GEN
3	4259174	12	GASKET, CONVERTER
2	4272140	12	CONVERTER ASSY INFINEON
1	4267801	1	STR SR CONV 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: 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™

ASSY SR CONV BOX
L1850/2350

SIZE E | DO NOT SCALE | DRAWING 4267800 | REV 03

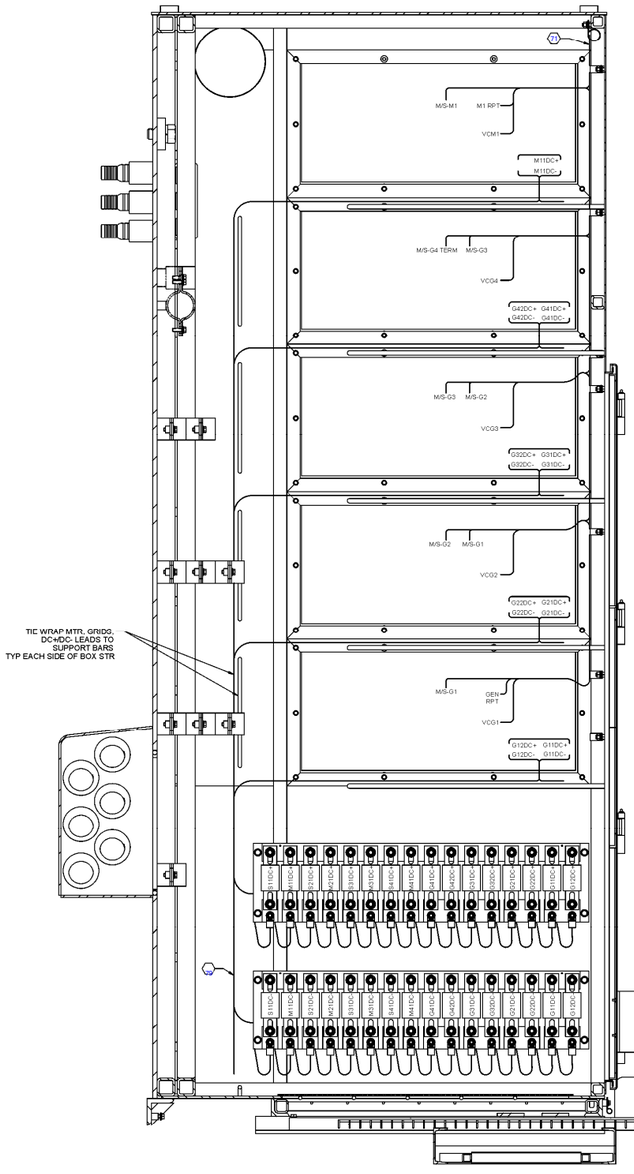
SCALE 1/0 | SYS=F 4250 9 8th | SHEET 1 OF 6

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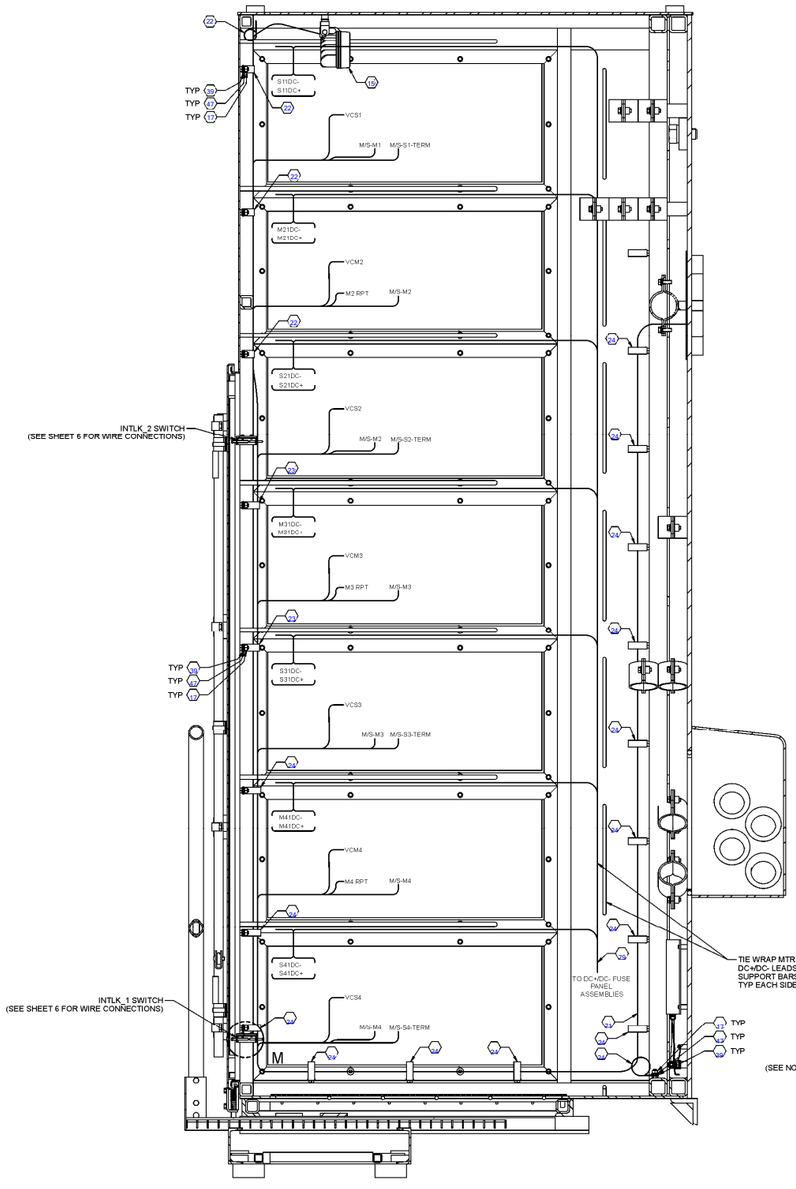
HIGH VOLTAGE CABINET ASSEMBLY

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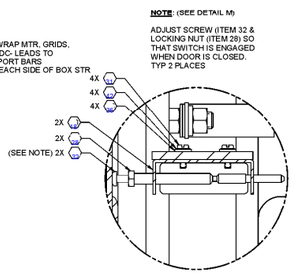
HIGH VOLTAGE CABINET ASSEMBLY



SECTION AB-AB
1:5
ROTATED 90° CCW



SECTION AA-AA
1:5
ROTATED 90° CW



DETAIL M
1:1

INITIAL INTERNAL WIRING

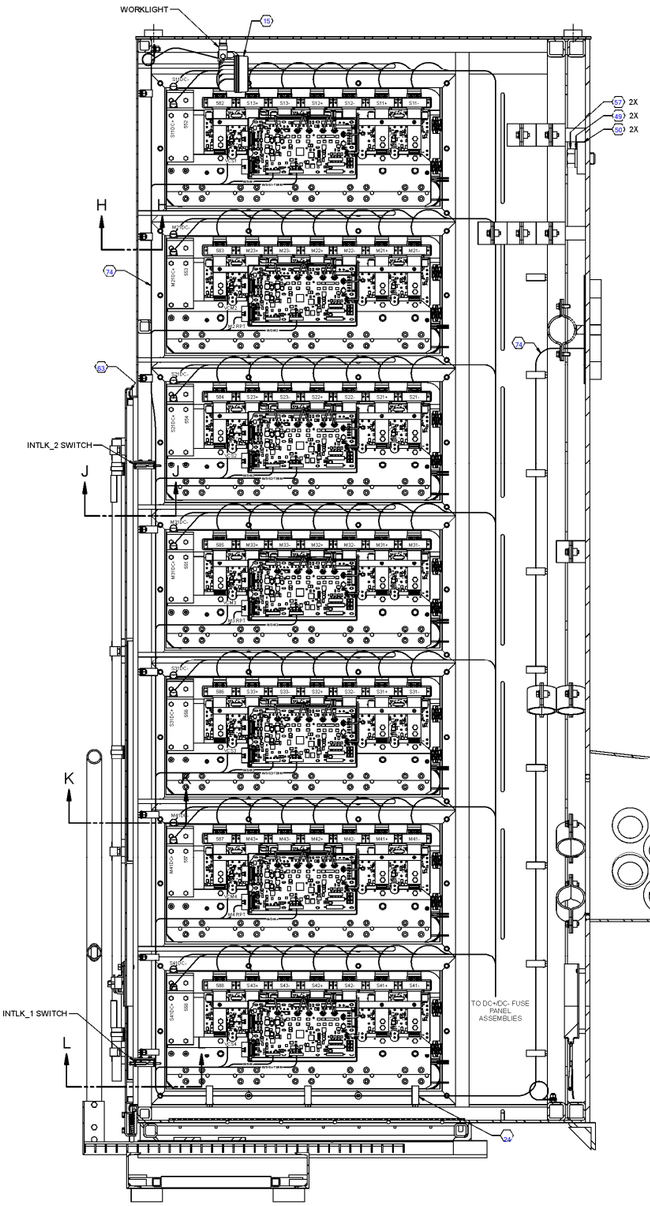
ASSY SR CONV BOX L1850/2350	E	DO NOT SCALE	DWG NO	4267800	REV 03
SHEET 2 OF 6	SCALE 1/8	WT 4250.9 lbm			

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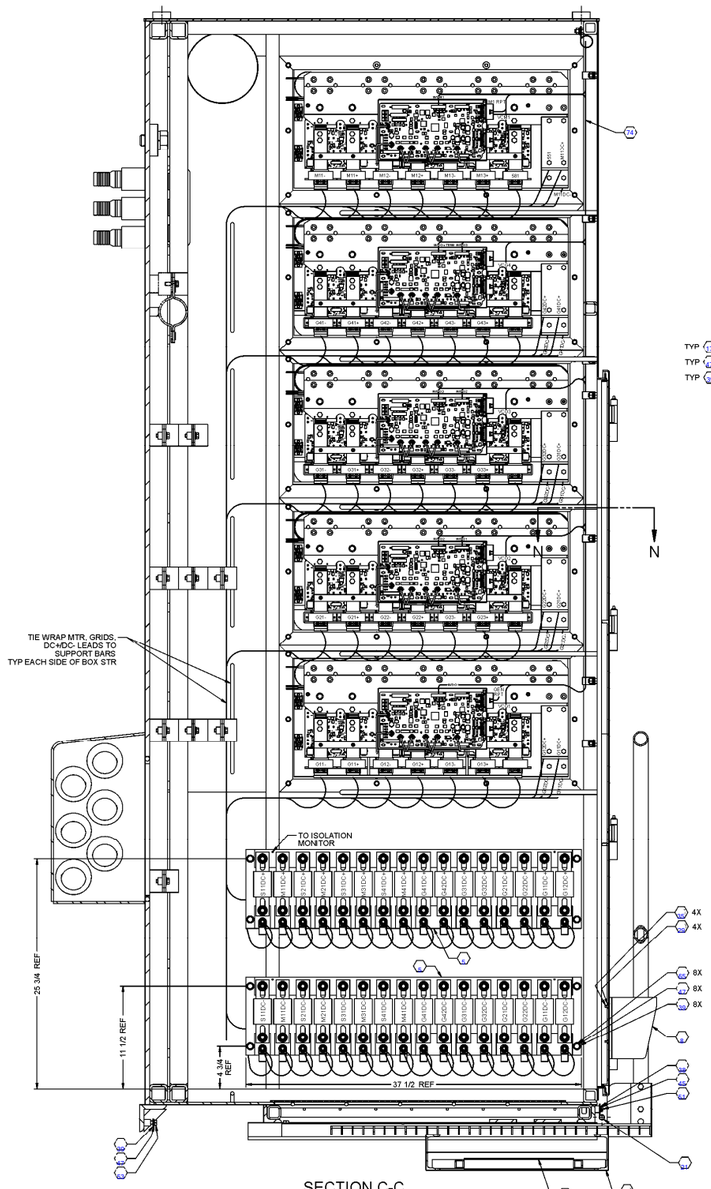
HIGH VOLTAGE CABINET ASSEMBLY

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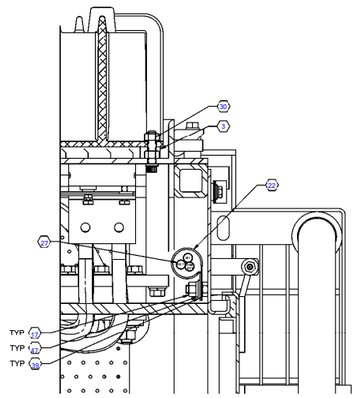
HIGH VOLTAGE CABINET ASSEMBLY



SECTION B-B
1:5



SECTION C-C
1:5



SECTION N-N
1:2

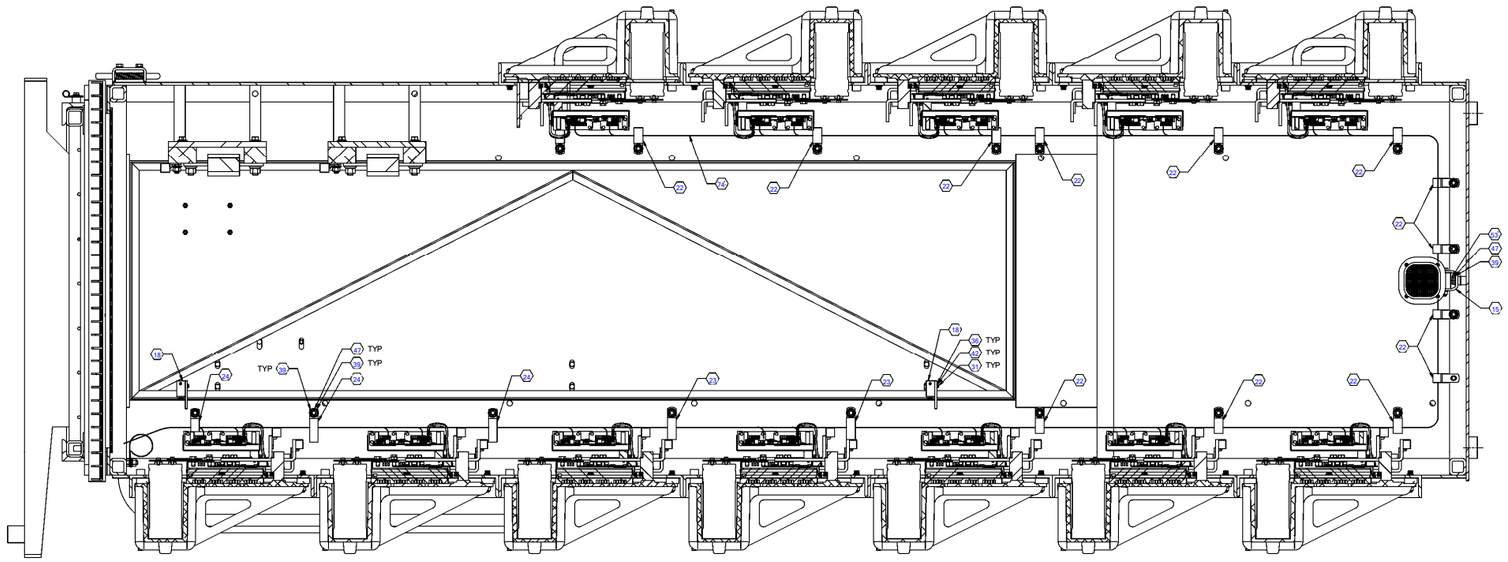
ASSY SR CONV BOX L1950/2350	SIZE E	DO NOT SCALE	DWG NO. 4267800	REV 03	
	SCALE 1/8	WT 4250.9 lbm	SHEET 3 OF 6		

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HIGH VOLTAGE CABINET ASSEMBLY

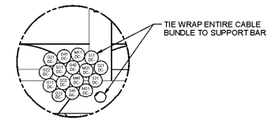
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HIGH VOLTAGE CABINET ASSEMBLY



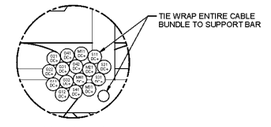
SECTION F-F
1:4
ROTATED 90° CW

NOTE: REPLACE MOUNTING BOLT IN WORKLIGHT WITH ITEMS 39, 47 & 53 AS SHOWN

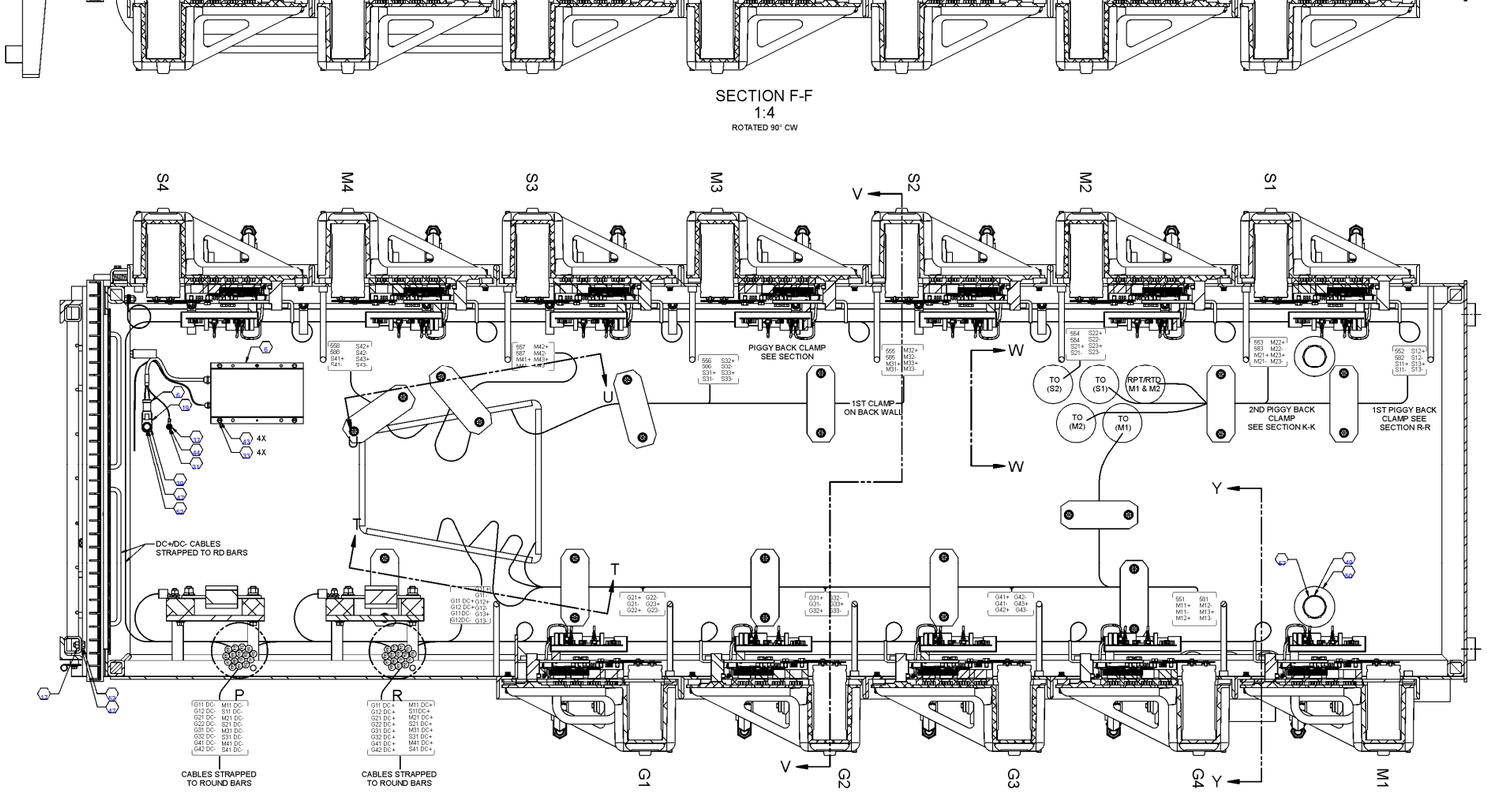


DETAIL P
1:2

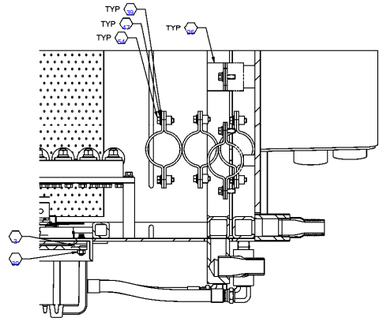
NOTE: ORIENTATION OF WIRES SHOWN IN DETAILS P & R ARE NOT INTENDED AS A GUIDE FOR INDIVIDUAL WIRE POSITIONING. THEY ARE SHOWN ONLY TO INDICATE THE WIRES PRESENT IN EACH BUNDLE.



DETAIL R
1:2



SECTION G-G
1:4
ROTATED 90° CW



SECTION Y-Y

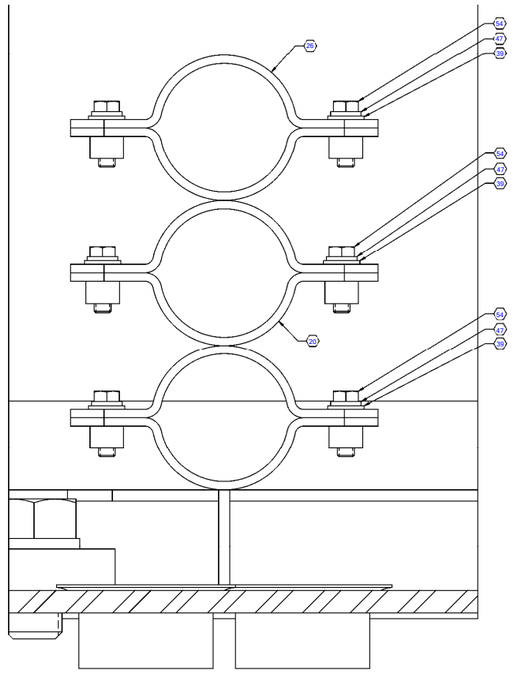
ASSY SR CONV BOX L1850/2350	E	DO NOT SCALE	DWG NO 4267800	REV 03
DRAWN	SCALE 1/8	WT wt 4250.9 lbm	SHEET 4 OF 6	

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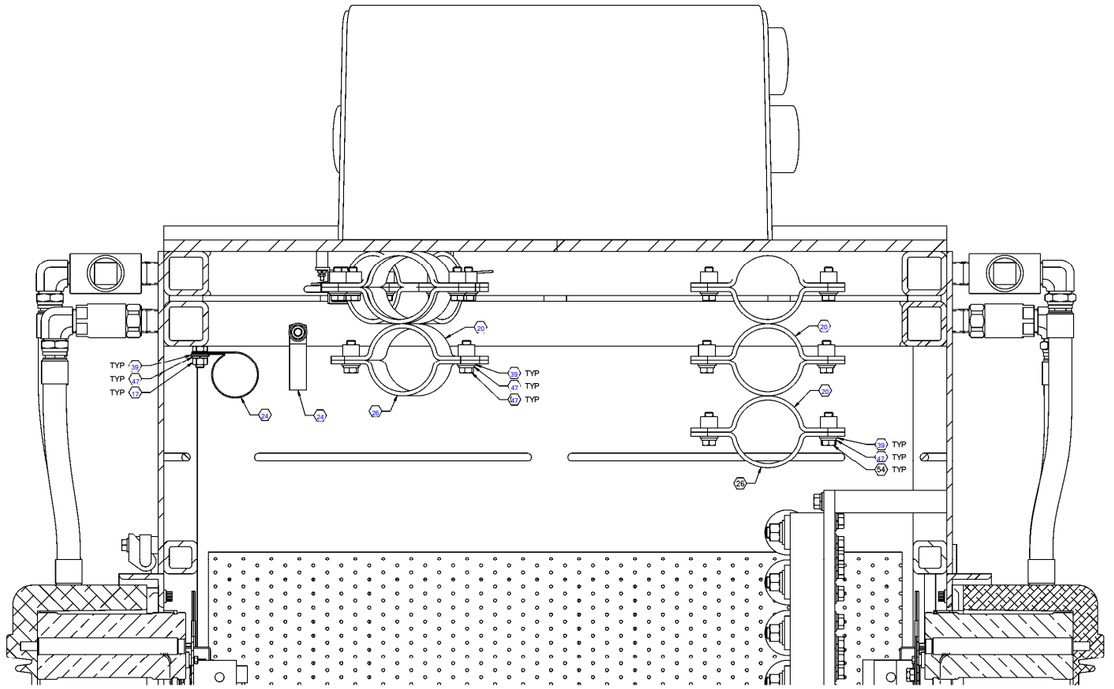
HIGH VOLTAGE CABINET ASSEMBLY

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HIGH VOLTAGE CABINET ASSEMBLY

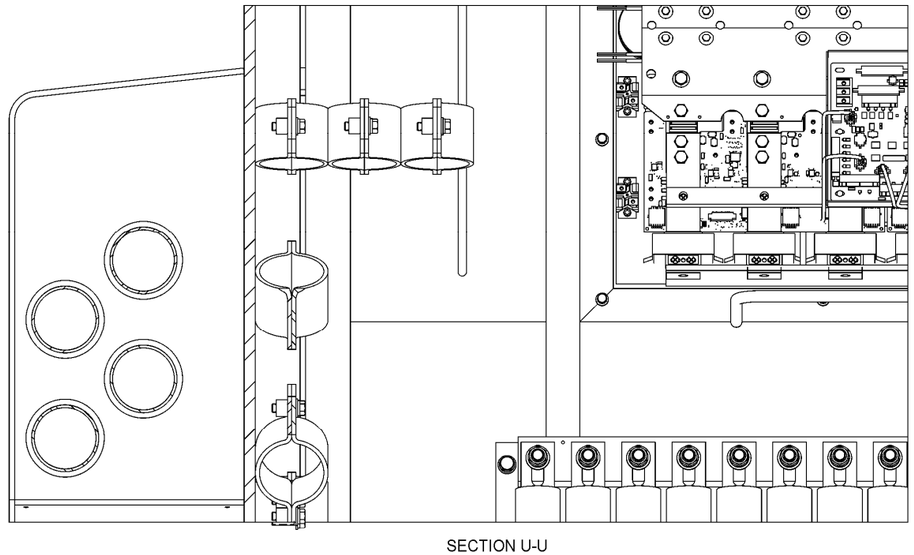


SECTION W-W
1:1
ROTATED 90° CCW

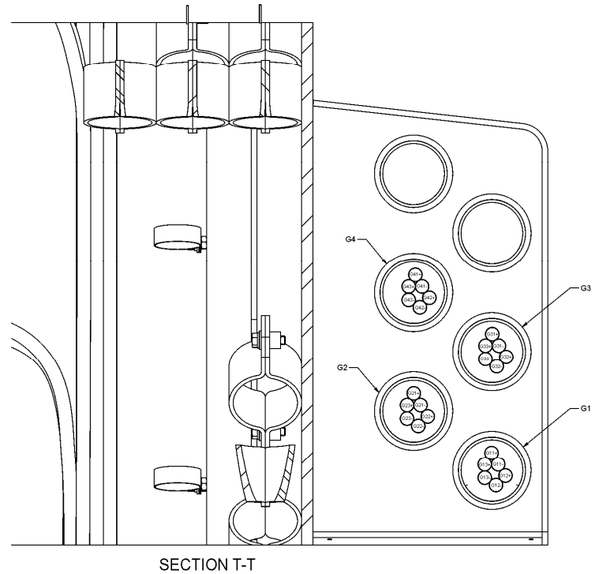


SECTION V-V
1:2

NOTE: ORIENTATION OF WIRES SHOWN IN EACH SECTION ARE NOT INTENDED AS A GUIDE FOR INDIVIDUAL WIRE POSITIONING. THEY ARE SHOWN ONLY TO INDICATE THE WIRES PRESENT IN EACH BUNDLE.



SECTION U-U
1:2
ROTATED 80.3° CCW



SECTION T-T
1:2
ROTATED 99.7° CCW

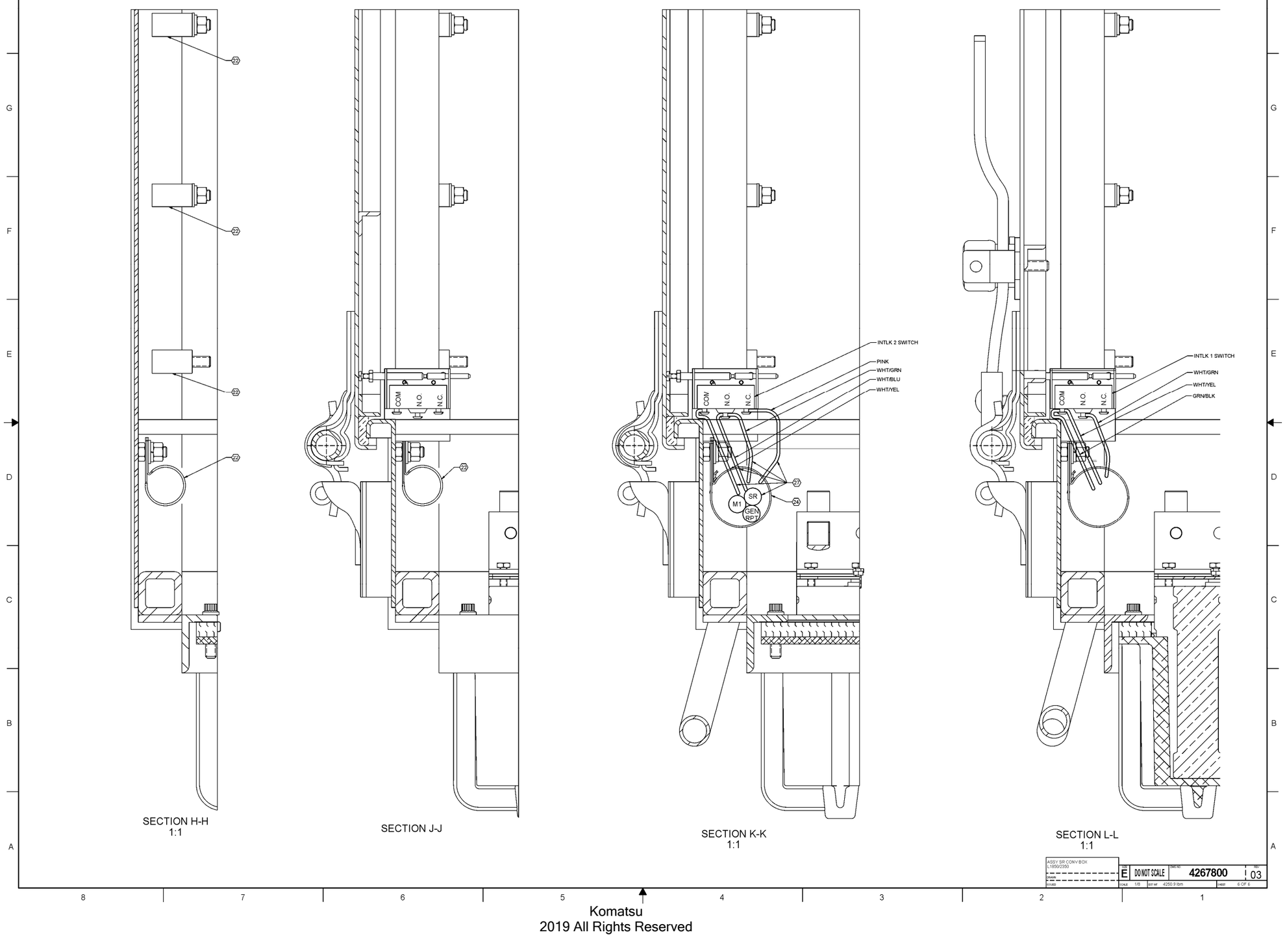
ASSY SR CONV BOX L1950/2350	E	DO NOT SCALE	DWG NO	4267800	REV 03
Sheet					
81489	SCALE 1/8	WT 4250.9 lbm		SHEET 5 OF 6	

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HIGH VOLTAGE CABINET ASSEMBLY

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HIGH VOLTAGE CABINET ASSEMBLY



SECTION H-H
1:1

SECTION J-J

SECTION K-K
1:1

SECTION L-L
1:1

ASSY SR CONV BOX
L1950/2250

SIZE E | DO NOT SCALE | DWG NO. 4267800 | REV 03

SCALE 1/8 | WT 4250.9 lbm | SHEET 6 OF 6

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HIGH VOLTAGE CABINET ASSEMBLY

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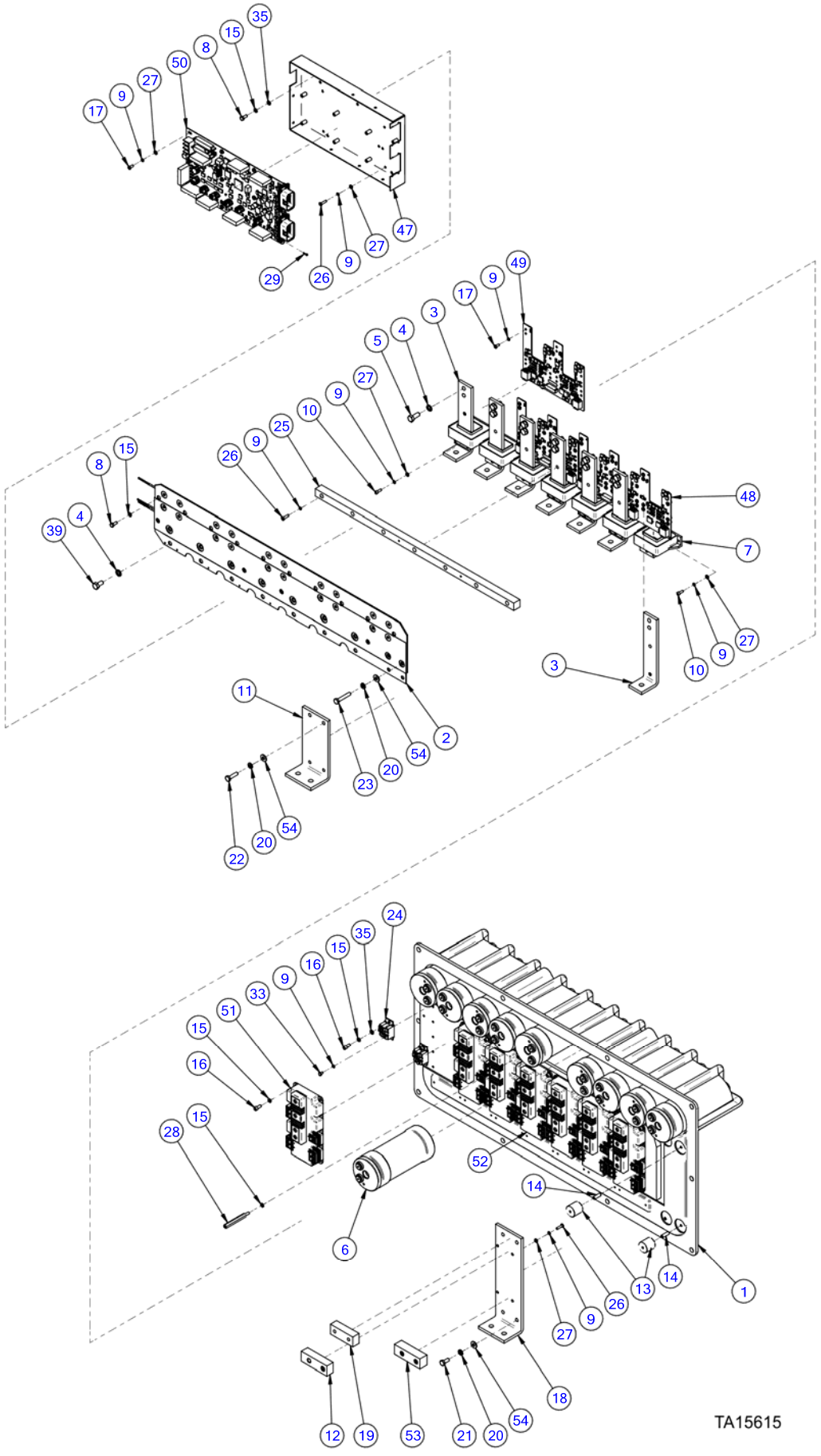
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	R4267800		HIGH VOLTAGE CABINET ASSEMBLY		6/1/12
1	R4267801	1	· HIGH VOLTAGE CABINET BOX STRUCTURE		6/1/12
	R4267807	1	· · DOOR PANEL		
	R4062579	4	· · HINGE EYE STRUCTURE - WELDED ON DOOR		
	R4273188	4	· · HINGE PIN BLOCK - WELDED ON CABINET		
	R0020315	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		
	R4238833	1	· · TUBE, MULTI POINT LATCH		
2	R4272140	12	· CONVERTER ASSEMBLY, INFINEON		
3	R4259174	12	· GASKET, CONVERTER		
4	N.P.N.		· NOT USED		
5	R4267795	2	· FUSE PANEL ASSEMBLY, 8MOTOR 4GEN		
	R4259194	16	· · FUSE, 450A 700V - SEMICONDUCTOR		
6	R4259354	7	· MONITOR ASSEMBLY, ISOLATION		
7	R4258798	1	· PUSHBUTTON ASSEMBLY, E-STOP		
8	R4258526	1	· GUARD STRUCTURE, EMERGENCY STOP		
9	R4269414	1	· HANDRAIL STRUCTURE, SLIDE OUT PLATFORM		
10	R4269410	1	· PLATFORM STRUCTURE, SLIDE OUT		
11	R4274252	1	· PLATFORM STRUCTURE, SLIDE OUT		
12	R4267760	1	· LADDER STRUCTURE		
13	N.P.N.		· NOT USED		
14	N.P.N.		· NOT USED		
15	R4258790	1	· LAMP ASSEMBLY, WORK - LED, 9-32V		
16	R4009626	6	· BOLT, 5/16"-18 X 1"		
17	R0812921	33	· NUT, 3/8"-16		
18	R4060928	2	· SWITCH, DOOR INTERLOCK		
19	R4259249	1	· MOUNTING BRACKET		
20	R4250840	9	· CLAMP HALVES STRUCTURE, 3"		
21	R4153802	5	· CLAMP, CABLE - INSULATED, 1/2"		
22	R0986144	14	· CLAMP, CABLE - INSULATED, 1-1/4"		
23	R0986146	2	· CLAMP, CABLE - INSULATED, 1-3/4"		
24	R4014475	16	· CLAMP, CABLE - INSULATED, 2"		
25	N.P.N.		· NOT USED		
26	R0987618	12	· CLAMP HALF, 3" O.D.		
27	N.P.N.		· NOT USED		
28	R0819903	1	· NUT, #8-32		
29	R0230017	4	· NUT, #10-32		
30	R4255295	120	· LOCKNUT, 3/8"-16 - EXTERNAL TOOTH		
31	R0260712	5	· SCREW, #6-32 X 7/16" - P.H.		
32	R4012415	2	· SCREW, #8-32 X 1"		
33	R4010283	4	· SCREW, #10-32 X 1/2" - P.H.		
34	R0264174	6	· LOCKWASHER, 5/16"		
35	R0182170	4	· SCREW, #10-32 X 1" - P.H.		
36	R0725125	4	· FLATWASHER, #6		
37	R0810880	5	· FLATWASHER, #10		
38	R4010923	5	· FLATWASHER, 1/4"		
39	R0808221	84	· FLATWASHER, 3/8"		
40	N.P.N.		· NOT USED		
41	N.P.N.		· NOT USED		
42	R4010914	4	· LOCKWASHER, #6 - EXTERNAL TOOTH		
43	R0182634	4	· LOCKWASHER, #10 - EXTERNAL TOOTH		
44	R4010907	5	· LOCKWASHER, #10		
45	R0213584	5	· LOCKWASHER, 1/4"		
46	N.P.N.		· NOT USED		
47	R0753123	86	· LOCKWASHER, 3/8"		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
48	N.P.N.		· NOT USED		
49	R0021545	2	· LOCKWASHER, 1-1/4"		
50	R4250473	2	· RETAINING WASHER, BOX MOUNT		
51	R0812278	5	· BOLT, 1/4"-20 X 5/8"		
52	R0810970	2	· BOLT, 3/8"-16 X 3/4"		
53	R0810971	2	· BOLT, 3/8"-16 X 1"		
54	R0808476	42	· BOLT, 3/8"-16 X 1-1/4"		
55	N.P.N.		· NOT USED		
56	R4274249	3	· LATCH, SPRING		
57	R4009540	2	· BOLT, 1-1/4"-7 X 2-1/4"		
58	R4267835	6	· ADAPTER, 1-1/2" MP X 1-1/2" I.D. HOSE		
59	R4013080	24	· ADAPTER, #8 MO X #12 MJ		
60	R4002481	24	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
61	R4002441	24	· ELBOW, 3/4" MP X 90 deg. X #12 MJ		
62	R4035388	12	· VALVE, DRAIN - 3/4"		
63	R4267818	18	· SEAL, SPONGE - 1" X 3/8"		
64	N.P.N.		· NOT USED		
65	R4009640	8	· BOLT, 3/8"-16 X 1-1/2"		
66	N.P.N.		· NOT USED		
67	R4265811	24	· ROD, THREADED - 7" X 3/8"-16		
68	N.P.N.		· NOT USED		
69	R4262074	12	· HOSE ASSEMBLY, #12 X 11"		
70	R4262075	12	· HOSE ASSEMBLY, #12 X 13-3/8"		
71	R4269377	1	· HARNESS, CONVERTER SR		
72	R4259298	REF	· TEMPLATE STRUCTURE, CONVERTER PANEL		
73	R4267787	REF	· JIG, SR CONVERTER WIRING		
74	R4018728	100	· CABLE TIE, 4"		
75	R4273152	REF	· SHIM, .13" X 2" X 2-1/4"		
76	R4273151	REF	· SHIM, .063" X 2" X 2-1/4"		
77	R4148481	125	· RUBBER SHIELD, NEOPRENE - 1/16" X 5"		
78	R4069344	200	· CABLE TIE, 4"		
79	R4274294	1	· LEAD DETAIL		
80	R4274256	7	· VALVE, CHECK - 3/4"		
	R4271688	REF	SR COOLER PLUMBING GROUP		
	R4267800	REF	HIGH VOLTAGE CABINET ASSEMBLY		

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CONVERTER ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4272140		CONVERTER ASSEMBLY		
1	R4259153	1	· HOUSING STRUCTURE, CONVERTER		
2	R4272146	1	· BUS BAR ASSEMBLY		
3	R4275670	7	· BUS BAR, IGBT OUTPUT W/INSERT		
4	R4259177	28	· LOCKWASHER, 8MM - S.S.		
5	R4259175	14	· BOLT, 8MM -1.25 X 20MM		
6	R4258683	10	· CAPACITOR, 6000uF WITH STUD		
7	R4258686	7	· TRANSDUCER, CURRENT - HAT 600-S		
8	R4259182	22	· BOLT, 5MM - .80 X 12MM - S.S.		
9	R4259178	98	· LOCKWASHER, 4MM - S.S.		
10	R4275668	21	· CAPSCREW, 4MM -.70 x 12MM - SOCKET HEAD		
11	R4272151	1	· BUS BAR, DC TOP		
12	R4259222	1	· STANDOFF, BUS BAR PHENOLIC		
13	R4041223	4	· INSULATOR, CENTER POST		
14	R4016009	4	· SCREW, 1/4"-20 X 3/4"		
15	R4259193	96	· LOCKWASHER, 5MM - S.S.		
16	R4259176	72	· CAPSCREW, 5MM -.80 x 12MM		
17	R4264497	60	· SCREW, 4 MM X .70MM		
18	R4272150	1	· BUS BAR, DC BTM		
19	R4259215	1	· SPACER BLOCK, BUS BAR		
20	R0213584	8	· LOCKWASHER, 1/4"		
21	R4105638	2	· BOLT, 1/4"-20 X 5/8" - S.S.		
22	R4105641	4	· BOLT, 1/4"-20 X 1" - S.S.		
23	R4265104	2	· BOLT, 1/4"-20 X 1-1/2" - S.S.		
24	R4259147	2	· RESISTOR, POWER SERIES HPS 150		
25	R4274297	1	· STANDOFF, IGBT BUS BAR		
26	R4259295	13	· SCREW, 4MM -.70 x 16MM		
27	R4264464	38	· FLATWASHER, M4		
28	R4272646	2	· STANDOFF, 8MM HEX		
29	R4259297	8	· SCREW, #4 -24 x 3/8"		
30	R4259191	REF	· GREASE, THERMAL		
31	R4259174	REF	· GASKET, CONVERTER		
32	R4259192	REF	· THERMAL GREASE STENCIL 7 IGBT		
33	R4259282	4	· BOLT, 4MM X 6MM		
34	R4274189	3	· HARNESS, RIBBON - 15"		
35	R4259338	6	· FLATWASHER, 5MM -S.S.		
36	R4018725	5	· CABLE TIE, 4" - BENT TIP/BLACK		
37	R4018726	5	· CABLE TIE		
38	R4018727	7	· CABLE TIE		
39	R4264463	14	· BOLT, 8MM -1.25 X 16MM		
40	R4019411	2	· WIRE TERMINAL, #16-14 AWG		
41	R4019412	4	· WIRE TERMINAL, RT 22 16 #8 INS.		
42	R4001297	AR	· TUBING, HEATSHRINK, BLACK - 1/8"		
43	R4170160	AR	· HEAT SHRINK, CLEAR - 1/8"		
44	R4279834	REF	· ADHESIVE, LOCTITE 263		
45	R4267778	REF	· THERMAL GREASE STENCIL 1 IGBT		
46	R4259296	7	· CABLE ASSEMBLY, CURRENT TRANSDUCER		
47	R4259289	1	· BOX, CONVERTER PANEL - PCB MOUNT		
48	R4272142	1	· BOARD, GATE DRIVER - 3 IGBT		
49	R4272141	2	· BOARD, GATE DRIVER - 2 IGBT		
50	R4272143	1	· BOARD, SR CONTROL		
51	R4269431	4	· IGBT, 900A1200A LOW SIDE CHOPPER		
52	R4269432	3	· IGBT, 900A1200A HI SIDE CHOPPER		
53	R4272152	1	· STANDOFF, BUS BAR PHENOLIC		
54	R4010923	8	· FLATWASHER, 1/4"		
			DRAWING, CONVERTER ASSEMBLY (R427214006)		

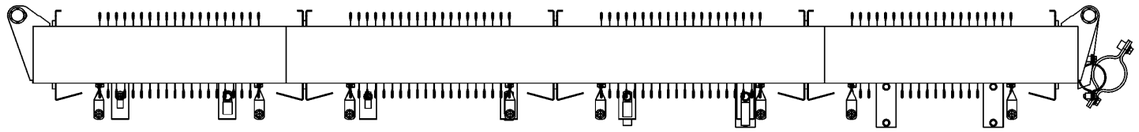
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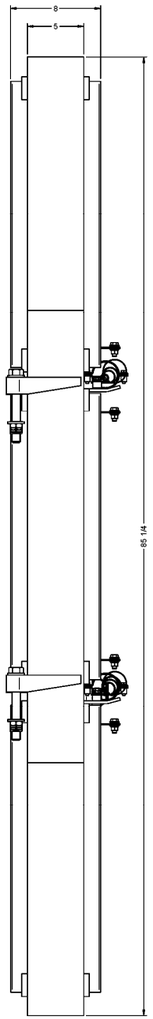
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

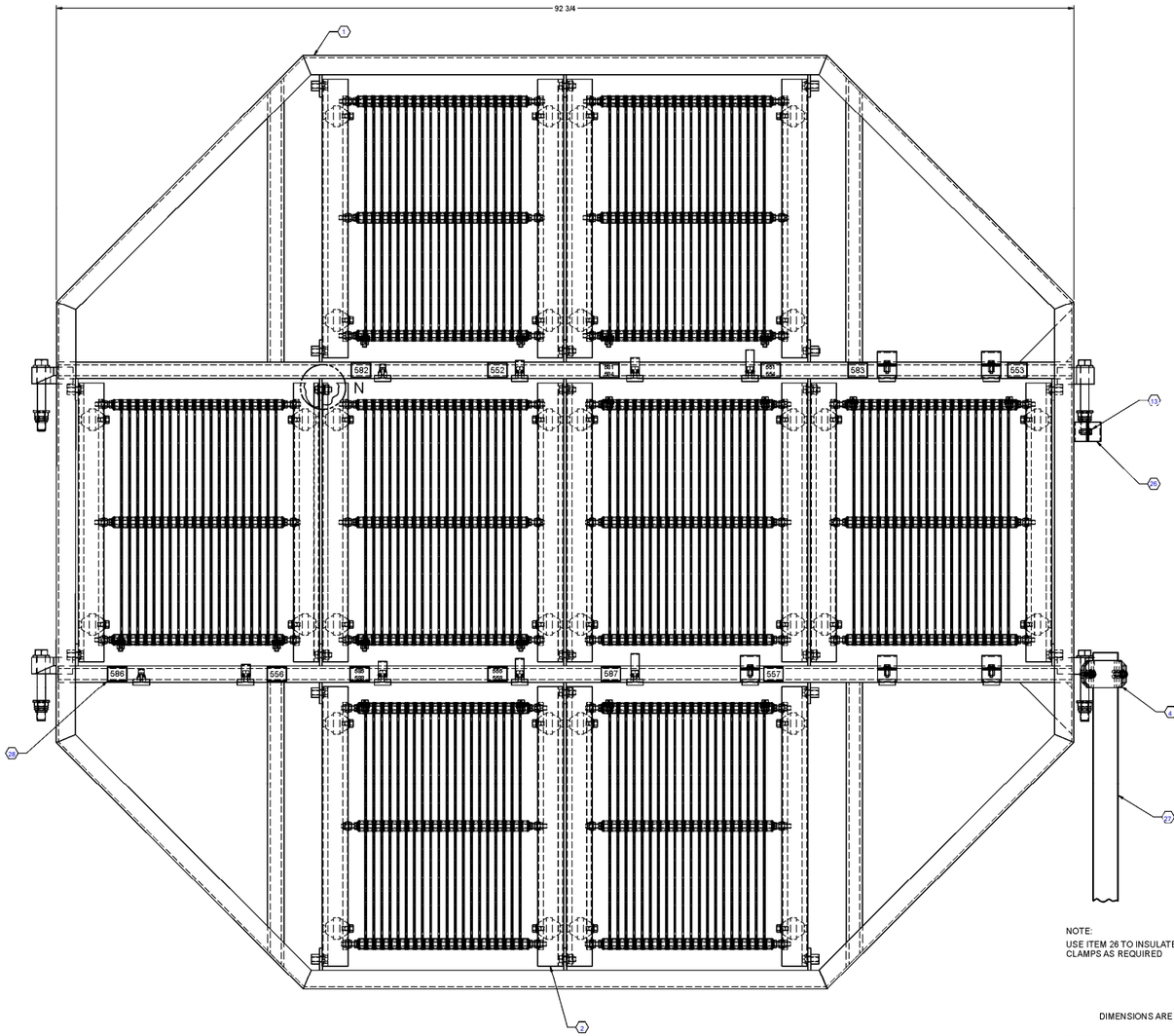
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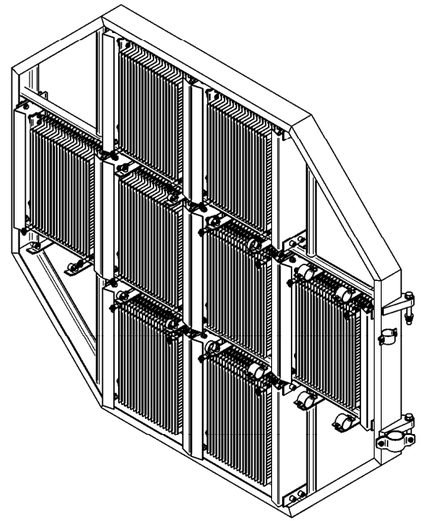
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BRAKING GRID ASSEMBLY

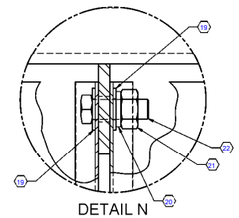








ISOMETRIC VIEW
1:8



DETAIL N
1:1
TYP 18 PLACES

NOTE:
USE ITEM 26 TO INSULATE WIRES AT CLAMPS AS REQUIRED

DIMENSIONS ARE FOR REFERENCE ONLY

ITEM	PART NO.	QTY	DESCRIPTION
28	4270053	1	CODE SHEET BRAKING GRID ASSY
27	4017100	15 FT	TUBING CA 2.00 2.50 BULK
26	1510340	25 FT	RUBBER, NEOPRENE, 1/16 X 3-1/2W
25	4016018	4	LOCK NUT NYLON INSERT
24	0025764	4	BOLT HX 3/4 - 10UNC-2A X 6.00
23	4016046	8	WASHER FLAT .812 1.469 .160
22	0080594	44	BOLT HX .438 1.250 NC G8 FT
21	0824367	20	NUT HX .438 NC G8
20	4010908	42	WASHER LOCK .438 .78 .109 SPR
19	4010924	64	WASHER FLAT .438 .92 .08
18	0812921	16	NUT HX 0.375 NC G8 PL
17	0810971	18	BOLT HX .375 1.00 NC G8 FT
16	0824766	7	BOLT HX .375 .500 NC G8 FT
15	0753123	25	WASHER LOCK SPR .375 .68 .09
14	0808221	41	WASHER FLAT .375 .81 .08
13	0814157	12	BOLT HX .250 1.000 NC G8
12	0417597	2	BOLT HEX .250 .500 NC G8 FT
11	0213584	14	WASHER LOCK SPR .25 .49 .06
10	4010923	14	WASHER FLAT .250 .63 .08
9	4014475	2	CABLE CLAMP INSL 2.00 .406
8	0986145	1	CLAMP CABLE INSL 1.50 .406
7	0986144	2	CLAMP CABLE INSL 1.25 .406
6	0986143	2	CLAMP CABLE INSL 1.00 .406
5	0909000	2	CLAMP CADLE INGL .50 .201
4	0987618	1	CLAMP HALF 3.00
3	0803324	6	CLAMP HALF 2-1/4 O.D.
2	4268577	8	ASSEMBLY BRAKE RESISTOR 2.2 OHM
1	4270040	1	STR BRAKE RESISTOR MOUNT L-1850

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650 00

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH OPERATIONS
- TOLERANCES ON ANGLES ±1°
  FRACTIONS ±1/16
  .XX DECIMAL ±.03
  .XXX DECIMAL ±.015
- MACHINED CORNERS 180 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO
L-1850

	DATE
DWN	
CHK	
ENGR	
PROD ENGR	
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

ASSEMBLY
BRAKE RESISTORS
SR L-1850

SIZE E | DO NOT SCALE | DWG NO 4270048 | REV 01

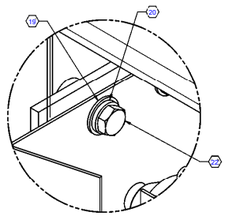
SCALE 1/4 | WEIGHT 910.6 lb/m | SHEET 1 OF 2

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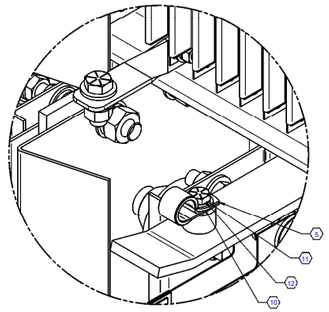
BRAKING GRID ASSEMBLY

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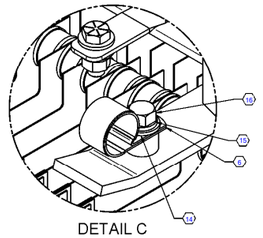
BRAKING GRID ASSEMBLY



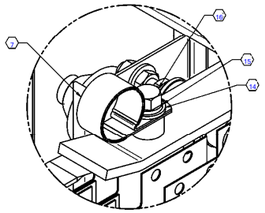
DETAIL A
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TYP 24 PLACES



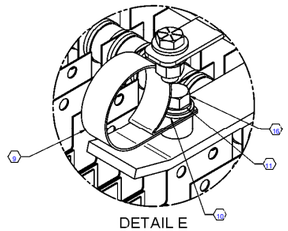
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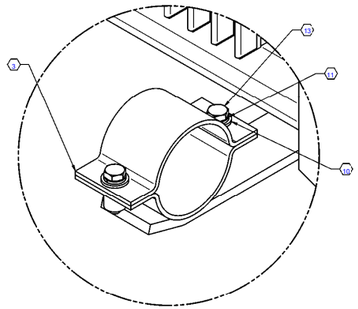
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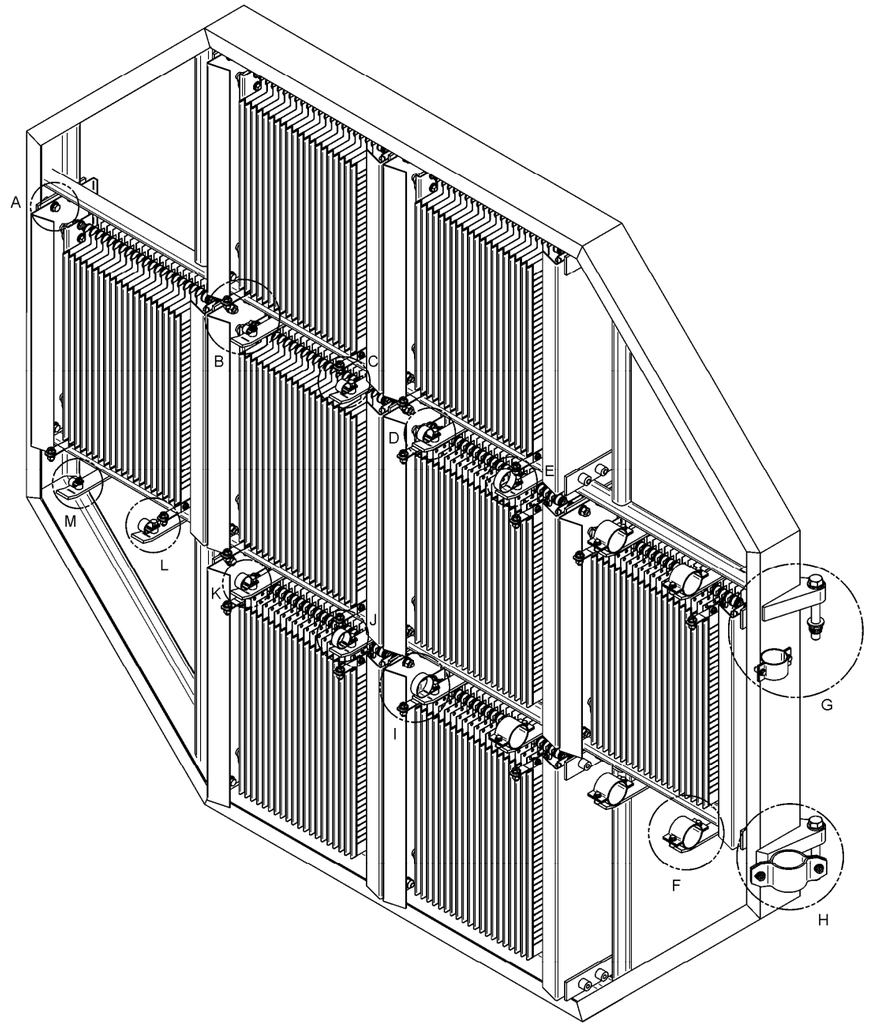
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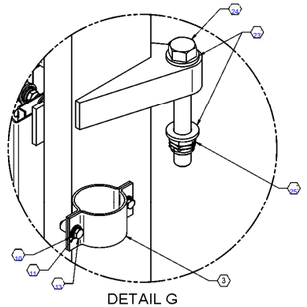
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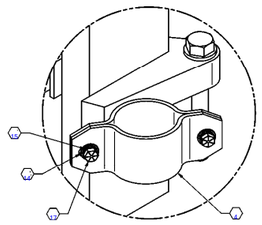
DETAIL F
1:1
TYP 5 PLACES



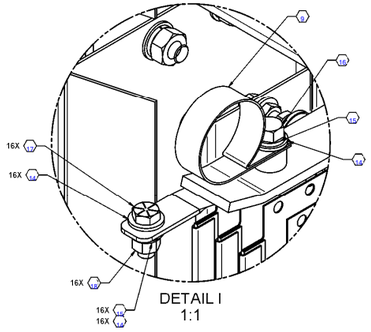
ISOMETRIC VIEW
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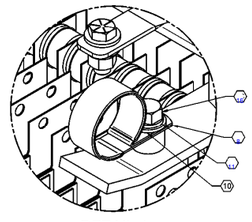
DETAIL G
1:2



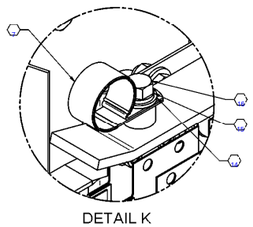
DETAIL H
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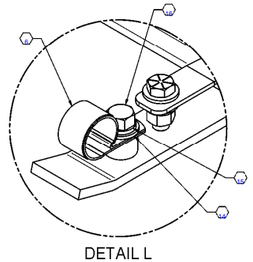
DETAIL I
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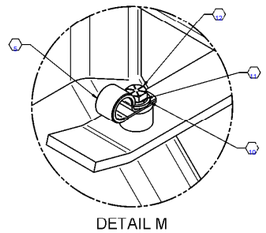
DETAIL J
1:1



DETAIL K
1:1



DETAIL L
1:1



DETAIL M
1:1

ASSY BRAKE RESISTORS SR L-165	E	DO NOT SCALE	4270048		01
	SCALE 1/4	WT lbs 910.6 lbm	SHEET 2 OF 2		

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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
	R4270048		BRAKING GRID ASSEMBLY		4/11/16
1	R4270040	1	· MOUNTING STRUCTURE, BRAKE RESISTOR		
2	R4268577	8	· RESISTOR ASSEMBLY, BRAKE		
	R4281714	32	· · INSULATOR, CENTER POST		4/11/16
3	R0803324	6	· CLAMP HALF, 2-1/4" O.D.		
4	R0987618	1	· CLAMP HALF, 3" O.D.		
5	R0989000	2	· CLAMP, CABLE - INSULATED, 1/2"		
6	R0986143	2	· CLAMP, CABLE - INSULATED, 1"		
7	R0986144	2	· CLAMP, CABLE - INSULATED, 1-1/4"		
8	R0986145	1	· CLAMP, CABLE - INSULATED, 1-1/2"		
9	R4014475	2	· CLAMP, CABLE - INSULATED, 2"		
10	R4010923	14	· FLATWASHER, 1/4"		
11	R0213584	14	· LOCKWASHER, 1/4"		
12	R0417597	2	· BOLT, 1/4"-20 X 1/2"		
13	R0814157	12	· BOLT, 1/4"-20 X 1"		
14	R0808221	41	· FLATWASHER, 3/8"		
15	R0753123	25	· LOCKWASHER, 3/8"		
16	R0824766	7	· BOLT, 3/8"-16 X 1/2"		
17	R0810971	18	· BOLT, 3/8"-16 X 1"		
18	R0812921	16	· NUT, 3/8"-16		
19	R4010924	64	· FLATWASHER, 7/16"		
20	R4010908	42	· LOCKWASHER, 7/16"		
21	R0824367	20	· NUT, 7/16"-14		
22	R0080594	44	· BOLT, 7/16"-14 X 1-1/4"		
23	R4016046	8	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		
24	R0025764	4	· BOLT, 3/4"-10 X 6"		
25	R4016018	4	· LOCKNUT, 3/4"-10 - NYLON		
26	R1510340	25	· RUBBER SHIELD, NEOPRENE - 1/16" X 3-1/2"		
27	N.P.N.		· NOT USED		5/6/13
28	R4270053	1	· CODE SHEET		
		REF	DRAWING, BRAKING GRID ASSEMBLY (R427004801)		

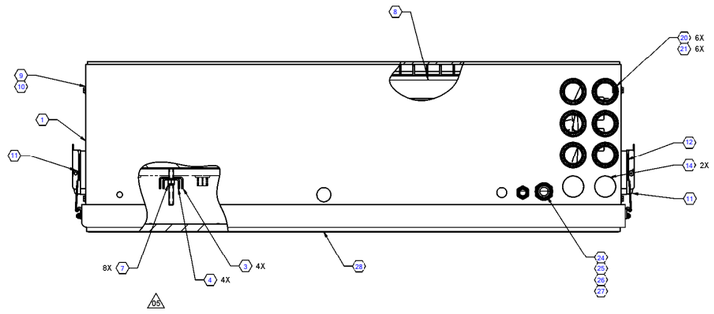
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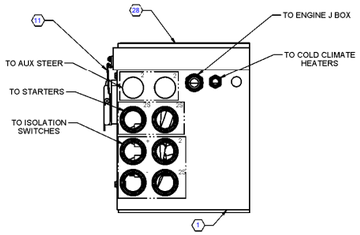
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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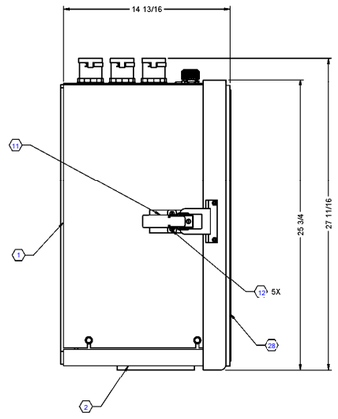
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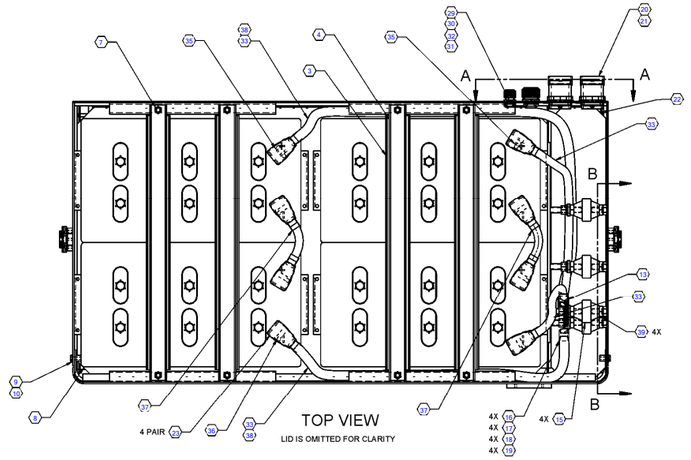
BATTERY BOX ASSEMBLY



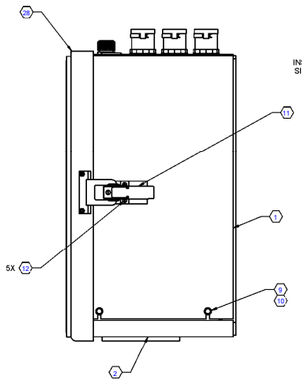


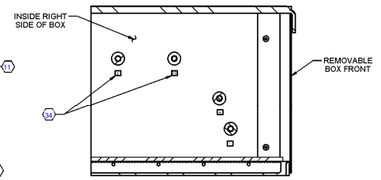
CONDUIT DISTRIBUTION DETAIL
VIEW ROTATED 180° CW



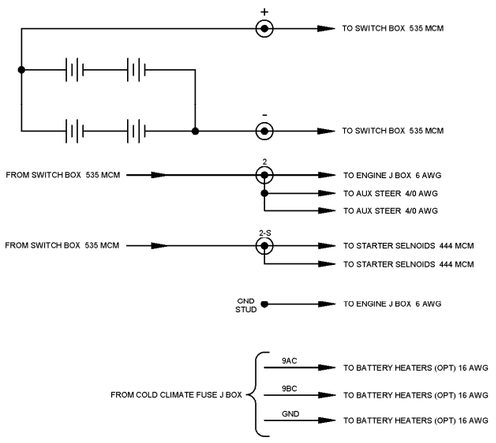


TOP VIEW
LID IS OMITTED FOR CLARITY

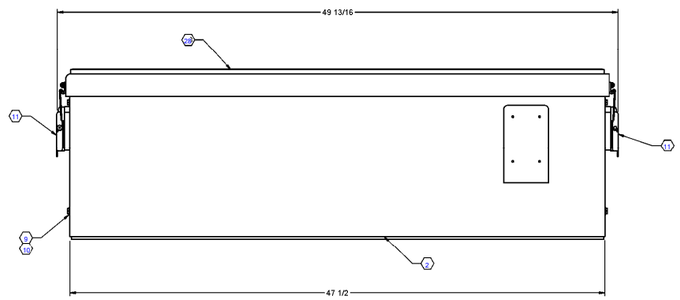




SECTION B-B
VIEW ROTATED 90° CCW



SCHEMATIC



NOTE:
BATTERIES ARE SHOWN AS PHANTOM FOR ORIENTATION AND REFERENCE.
REF P/N: 6985709

ITEM	PART NO.	QTY	DESCRIPTION
39	4013750	8	NUT JAM .500 NC
38	4217701	6.2 FT	CONDUIT NYLON NC20 HARNESSFLEX
37	4270134	2	JUMPER BATTERY TO BATTERY
36	4140759	2	BATTERY TERM NEG TOP POST 4/O AWG
35	4140758	2	BATTERY TERM POS TOP POST 4/O AWG
34	4270135	1	BATTERY BOX LABELS
33	4030841	10.3 FT	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	4217706	1	ADAPTER BODY AB26-M26
23	4235607	4	BATTERY TERMINAL CAPS
22	4270147	1	MATTING, BATTERY BOX APPLE AREA
21	4270141	6	NUT, HEX LOCK PG36
20	4270140	6	CONNECTOR, STRAIGHT PG36
19	0808489	4	NUT HX .500 NC
18	0801181	4	WASHER LOCK SPR .500 .873 .125
17	0810991	8	WASHER FLAT .531 1.062 .121
16	4153939	4	ROD THREADED 1/2-13 NC X 2.75
15	4030812	4	CTR POST INSULATOR 1/2-13 UNC
14	2222102	2	HOLE SEAL 1.00" CONDUIT SS
13	4066621	4	WIRE TERMINAL RT 4/0 1/2
12	0727313	10	MSCR FH #10 .375 NF
11	0581688	2	CATCH
10	4105638	4	BOLT HX 1/4-20 UNC X 5/8 LG
9	4010923	4	WASHER FLAT .250 .63 .08
8	4270106	1	MATTING, BATTERY BOX BOTTOM
7	4070091	8	NUT LOCK NYL ING .375 NC SS
4	4268677	4	CHANNEL, HOLD DOWN
3	4268678	4	CHANNEL, FIBER GLASS
2	4268671	1	FRONT REMOVABLE PLATE ASSEMBLY
1	4268673	1	BATTERY BOX STRUCTURE

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1650.00.

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PAINTING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1° | FRAC TOLNG ±1/16 | XX O.D. ECOMAL ±.02 | 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™

BATTERY BOX ASSEMBLY, L1350/L1850

SIZE E | DO NOT SCALE | DWG NO 4268668 | REV 05

SCALE 1/4 | WEIGHT 218.1 lb/n | SHEET 1 OF 1

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BATTERY BOX ASSEMBLY

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BATTERY BOX ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4268668		BATTERY BOX ASSEMBLY		
1	R4268673	1	· BOX STRUCTURE, BATTERY		
2	R4268671	1	· BATTERY BOX OUTSIDE PANEL - REMOVABLE		
3	R4268678	4	· CHANNEL, FIBER GLASS		
4	R4268677	4	· CHANNEL, BATTERY HOLD DOWN		
5	N.P.N.		· NOT USED		
6	N.P.N.		· NOT USED		
7	R4070091	8	· LOCKNUT, 3/8"-16 - S.S., NYLON		
8	R4270106	1	· MAT, RUBBER - 3/8" X 22-1/2" X 50"		
9	R4010923	4	· FLATWASHER, 1/4"		
10	R4105638	4	· BOLT, 1/4"-20 X 5/8" - S.S.		
11	R0581688	2	· LATCH ASSEMBLY		
12	R0727313	10	· SCREW, #10 X 3/8"		
13	R4066621	4	· TERMINAL, WIRE - RT 4/0 1/2		
14	R2222102	2	· PLUG, HOLE - 1", S.S.		
15	R4030812	4	· INSULATOR, CENTER POST - 1/2"-13, 2" O.D. X 2-1/4"		
16	R4153939	4	· ROD, THREADED - 1/2"-13 X 2-3/4"		
17	R0810991	8	· FLATWASHER, 1/2" X 1" X 1/8"		
18	R0801181	4	· LOCKWASHER, 1/2"		
19	R0808489	4	· NUT, 1/2"-13		
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	4	· 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	11	· CABLE, #4/0 AWG - SINGLE DEL		
34	R4270135	1	· LABELS, BATTERY BOX		
35	R4140758	2	· TERMINAL, BATTERY - #4 - POS.		
36	R4140759	2	· TERMINAL, BATTERY - #4 - NEG.		
37	R4270134	2	· JUMPER CABLE, BATTERY TO BATTERY		
38	R4217701	7	· CONDUIT, NYLON - NC20		
39	R4013750	8	· JAMNUT, 1/2"-13		
	R6985709	REF	BATTERY, 12V WET	4	
		REF	DRAWING, BATTERY BOX ASSEMBLY (R426866805)		

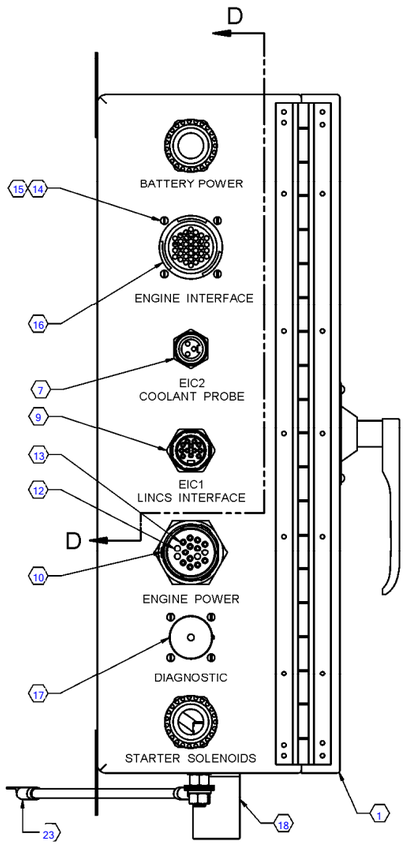
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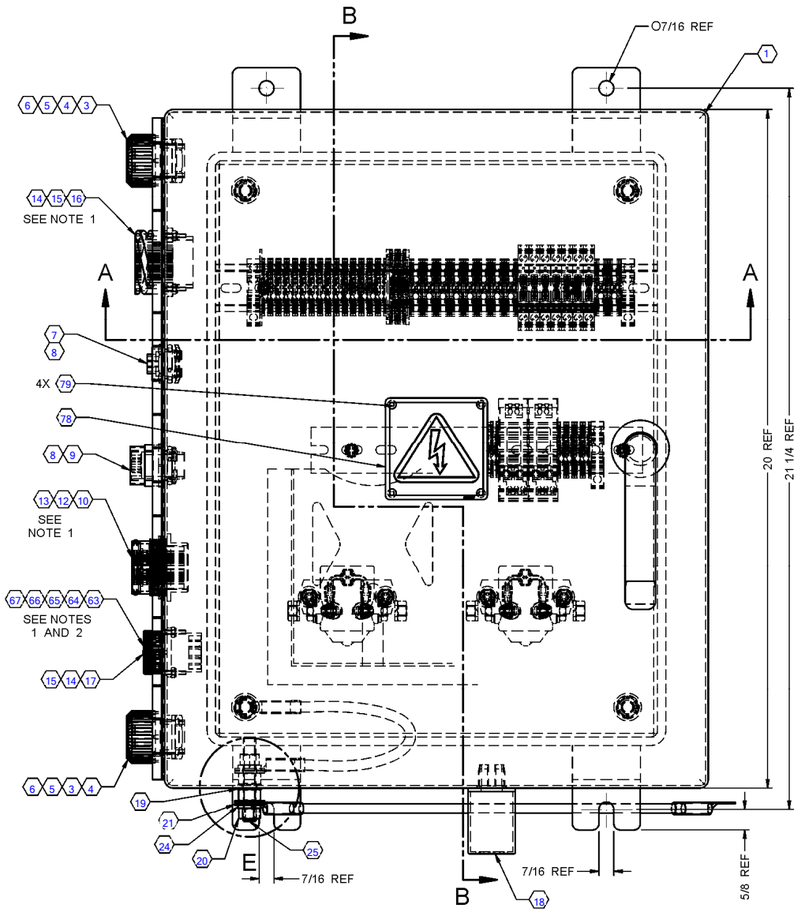
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

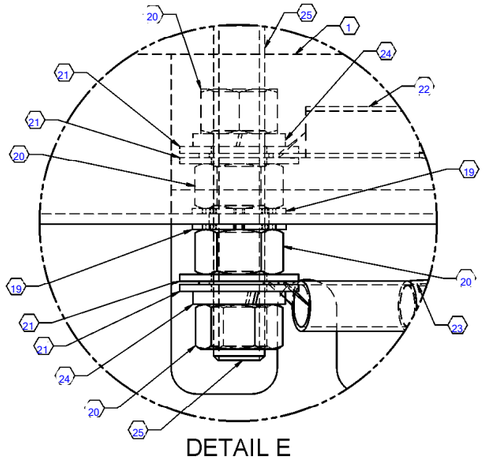
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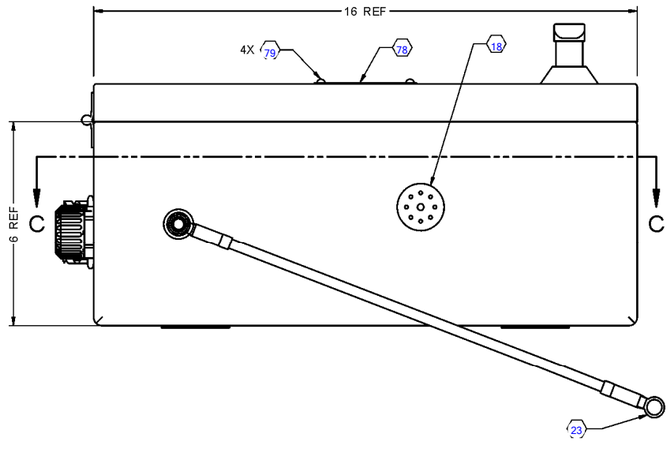
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ENGINE INTERFACE BOX ASSEMBLY









NOTES:

1. APPLY RTV 4240296 AROUND THE PERIMETER OF THE CONNECTOR.
2. SECURE THE CHAIN TO THE CAP WITH A CABLE TIE. SECURE THE OPPOSITE END OF THE CHAIN UNDER ONE OF THE CONNECTOR MOUNTING SCREWS.

REVISIONS							
ZONE	REV	DESCRIPTION	ECN		DATE	CHK	APP
	06	ITEM 41 QTY WAS 44 FT, ITEM 73 WAS 62					
	06	ADD ITEM 75 4232048 & ITEM 76 4270207	NL11-1610	BS	5-	BS	
	07	ITEM 73 WAS QTY 50; ITEM 56 WAS #4019434;					
	07	ITEM 55 WAS #4019436 AND QTY 4	NL11-1657	BS	7-19-11	JF	
	08	ADDED ITEM 77 (LABELS) IN PARTS LIST	NL11-1712	JFM	BS	BS	
	09	ADDED ITEM 78,79 IN BOM AND OUTSIDE LID	NL12-1522		2-7-12	JFM	BS	BS
	10	ITEM 49 WAS P/N 0083336	NL12-1524		3-6-12	JFM	BS	BS
B2	11	DELETED ITEM 11 (NUT) IN BOM;						
	11	DELETED ITEM 11 IN FRONT AND SIDE VIEWS	NL12-1565		5-25-12	JFM	BS	BS
	12	NO CHANGE THIS SHEET	NL12-1592		8-7-12	JFM	BS	BS

ITEM	PART NO.	QTY	DESCRIPTION
79	0181073	4	SCREW #6 .188 RH DRIVER
78	4268617	1	LABELS ELECTRICS SS
77	4274370	1	LABELS FOR BRADY ID PAL LABELER
76	4270207	12	FERRULE INSUL 12AWG .472LG INSERT GRAY
75	4232048	30 FT	CABLE #2 AWG
74	4264185	7	BRIDGE
73	4270205	55	FERRULE INSUL 16AWG .315LG INSERT BLK
72	4270208	1	FERRULE INSUL 10AWG .472LG INSERT YEL
71	4270209	4	FERRULE INSUL 8AWG .472LG INSERT RED
70	4270210	2	FERRULE INSUL 6AWG .472LG INSERT BLUE
69	4228721	1	MARKER DIN TERM BLK #211-220
68	4228711	1	MARKER DIN TERM BLK #111-120
67	4018725	20	CABLE TIE
66	0453625	.5 FT	CHAIN #8 SASH
65	4216110	1	CAP, PROTECTIVE
64	4216109	2	CAVITY PLUG
63	4216108	4	WIRE TERMINAL
62	4228704	1	MARKER DIN TERM BLK #41-50
61	4228703	1	MARKER DIN TERM BLK #31-40
60	4267211	1	MARKER DIN TERM BLK #11-20
59	4267210	1	MARKER DIN TERM BLK #1-10
58	4268594	1	TERMINAL MARKERS DDEC IV

ITEM	PART NO.	QTY	DESCRIPTION
57	4267191	1	CODE SHEET ENGINE INTERFACE J-BOX
56	4019418	4	TERMINAL #10 HOLE #16AWG
55	4019421	2	TERMINAL 5/16 HOLE #16AWG
54	4228702	1	MARKER DIN TERM BLK #21-30
53	4019571	4	NUTSERT 1/4-20 NC
52	4010923	4	WASHER FLAT .250 .63 .08
51	4228651	18	L-BRIDGE - PHOENIX LB100-6BU DIN
50	0213584	4	WASHER LOCK SPR .25 .49 .06
49	0417597	4	BOLT HX .250 .500 NC G8 FT
48	4228641	2	RELAY 2PDT 24VDC 5A
47	4264182	7	TERM BLK FUSE PHOENIX 30 01 93 8
46	4251788	10	FIXED BRIDGE DIN FBI 10-10
45	4247477	1	END COVER DBL TERM BLK 2770024
44	4264993	2	ASSY TERM BLK / RESISTOR 10K OHMS
43	4247479	1	SPCR PLT DBL TERM BLK 2770794
42	4228701	1	MARKER DIN TERM BLK #11-20
41	4120401	30 FT	CABLE #16 AWG EXANE DLO 600 VAC
40	4227190	27	TERM BLOCK 1-2 TERM #10 AWG
39	4228650	2	PARTITION PL PHOENIX ATP-UK
38	4227295	4	PLATE SEPARATING PHOENIX TS-K
37	4228652	10	TERM BLK 1P 2 TERM #6 AWG
36	4142986	2	SOLENOID 24V
35	4111905	1.5 FT	CABLE POLYOLEFIN SINGLE #8 AWG
34	4012632	4	MSCR PH #10-32 UNF X 5/8 LG
33	0182634	4	WASHER LOCK EXT .195 .41 .03
32	4017134	4	NUTSERT 10-32 UNF
31	4228648	4	BRACKET END E/UK
30	4250959	1	RAIL MOUNT 12.00 LG DIN
29	4140963	2	DIODE ASSEMBLY
28	4265745	4	FUSE-20A 32V BLADE TYPE
27	4265743	1	FUSE-10A 32V BLADE TYPE
26	4265742	2	FUSE-5A 32V BLADE TYPE
25	4163232	1	ROD THD 3/8-16 UNC X 2-1/2 SS
24	4129671	2	WASHER LOCK SPR 3/8 SS
23	4228927	1	CABLE GROUND #8AWG, 3/8 LUGS
22	4019681	2	WIRE TERMRG RT 8 .375 INS
21	4229233	4	WASHER FLAT .375 SS
20	2063953	4	NUT HX 3/8 SS
19	4229234	2	WASHER LOCK EXT .375 SS
18	4268634	1	VENT DRAIN
17	4238940	1	RECEPTACLE 6 PIN DEUTCH
16	4232096	1	RECEPTACLE, 37-PIN CONNECTOR PKG
15	4105654	8	NUT LOCK NYL INS #4-40 UNC-3B SS
14	4105602	8	MSCR PH #4-40 UNC-2A x 5/8LG SS
13	4153881	12	CONTACT #12 SOCKET
12	4153882	4	SEALING PLUG #12-16 AWG
11			
10	4253746	1	RECEPTACLE KIT 16 PIN HD44
9	4264983	1	RECP 12 PIN MALE/4M 1/2-14NPT
8	4046896	2	CONDUIT SEAL RING .500
7	4265238	1	RCPT 3 PIN FEM/3M 1/2-14NPT
6	4217711	2	SEALING RING SRN21
5	4217715	2	NUT LOCK NYL LNP-M25
4	4245614	2	CAP NUT CN21
3	4217705	2	ADAPTER BODY AB25-M25
2	4265027	1	RAIL MOUNT 9.75 LG DIN
1	4267189	1	JUNCTION BOX W/PANEL MODIFIED

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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.: -

		DATE
DWN	L.WILLIAMS	10-07-08
CHK	B.SHAFER	10-15-08
ENGR	B.SHAFER	10-15-08
PROD ENGR	B.SHAFER	10-15-08
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSEMBLY DDEC
ENGINE INTERFACE JUNCTION BOX

SIZE D | DO NOT SCALE | DWG NO. 4267190 | REV. 12

SCALE 1/2 | EST WT 48.6 lbm | SHEET 1 OF 4

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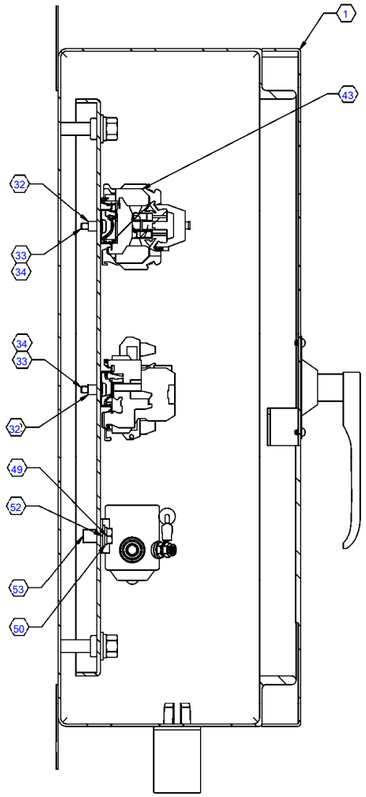
5.25A.1|R4267190

ENGINE INTERFACE BOX ASSEMBLY

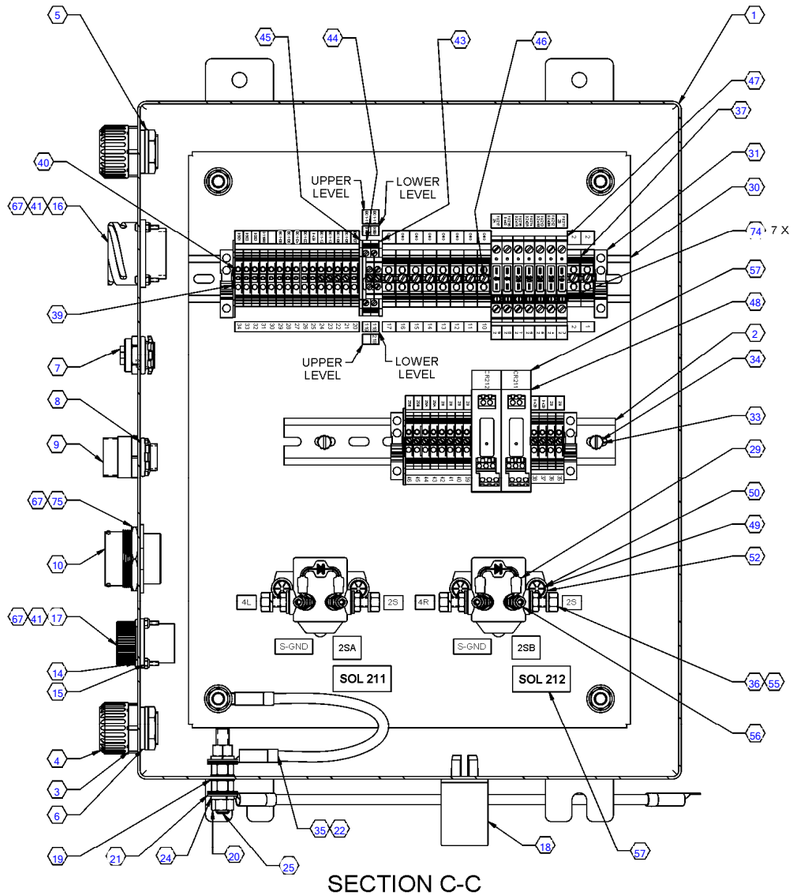
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ENGINE INTERFACE BOX ASSEMBLY

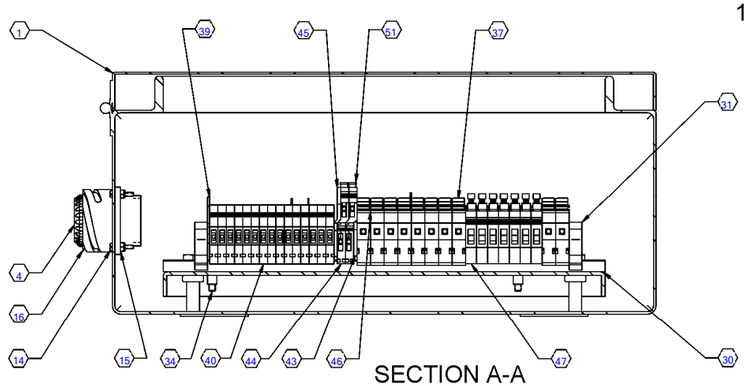
REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	CHK	APP
C6	12	DELETED (EIC1-10) LABEL AT DINRAIL TERMINAL	NL12-1592	8-7-12	JFM	BS	BS



SECTION B-B
1:2



SECTION C-C
1:2



SECTION A-A
1:2

ENGINE SIDE

ENGINE INTERFACE CONNECTOR (37 PIN)

- C G: D115M, D953 — BK, WH
- H P: D900, D901
- n p: D509, D419
- A: D439 — CR211 C1 2B, CR211 C2 NO2, NO1, 10A FU211
- ENGINE POWER CONNECTOR (16 PIN)
  - G: D240M — FU212 20A — 2
  - H: D241M — FU213 20A
  - J: D240R — FU214 20A
  - K: D241R — FU215 20A
  - N: D440 — FU216 5A
  - A: D150M — GND
  - B: D150M
  - C: D150R
  - D: D150R
  - P: D151
  - R: D953
  - S: D150R

MACHINE SIDE

EIC2 CONNECTOR (3 PIN TURCK)

- A — COOLANT LEVEL SENSOR CONNECTOR
- B

DIAGNOSTIC CONNECTOR (6 PIN DEUTSCH)

- A
- B
- C — FU217 5A — 2A
- E — GND

EIC1 CONNECTOR (12 PIN TURCK)

SPARES	EIC1-03	3	
	WH/BK EIC1-04	4	
	RD/BK EIC1-06	6	
	OG/BK EIC1-08	8	
2S	BK/WH	10	STARTER SWITCH MONITOR
	RD	2	STOP ENGINE LIGHT (RED)
	BU	9	CHECK ENGINE LIGHT (AMBER)
	GN		10K, 10K
	EIC1-11	11	
	WH EIC1-07	7	
	BU/BK EIC1-05	5	ENGINE IGNITION SIGNAL
	G/BK EIC1-12	12	COMMON
	BK EIC1-01	1	ENGINE START CMD
	OG		

TOP CONDUIT FITTING

- GND — 2 — #6 AWG — TO TERMINAL "2" IN THE BATTERY BOX
- GND — #6 AWG — TO MACHINE FRAME

BOTTOM CONDUIT FITTING

LEFT SOLENOID: SOL 211, 2S, 2SA, CR212 NO1 C1

- 2S — #10 AWG — TO 2-S TERMINAL ON RIGHT STARTER MOTOR
- 4L — #10 AWG — TO LEFT STARTER MOTOR SOLENOID

RIGHT SOLENOID: S-GND, SOL 212, CR212 2SB NO2 C2

- S-GND — #10 AWG — TO S-GND TERMINAL ON RIGHT STARTER MOTOR
- 4R — #10 AWG — TO RIGHT STARTER MOTOR SOLENOID

SCHEMATIC

ASSEMBLY DDEC ENGINE INTERFACE JUNCTION BOX	SIZE D	DO NOT SCALE	DWG NO. 4267190	REV 12	
DRAWN L.WILLIAMS					
ISSUED 10-15-08	SCALE 1/2	EST WT 48.6 lbm	SHEET 2 OF 4		

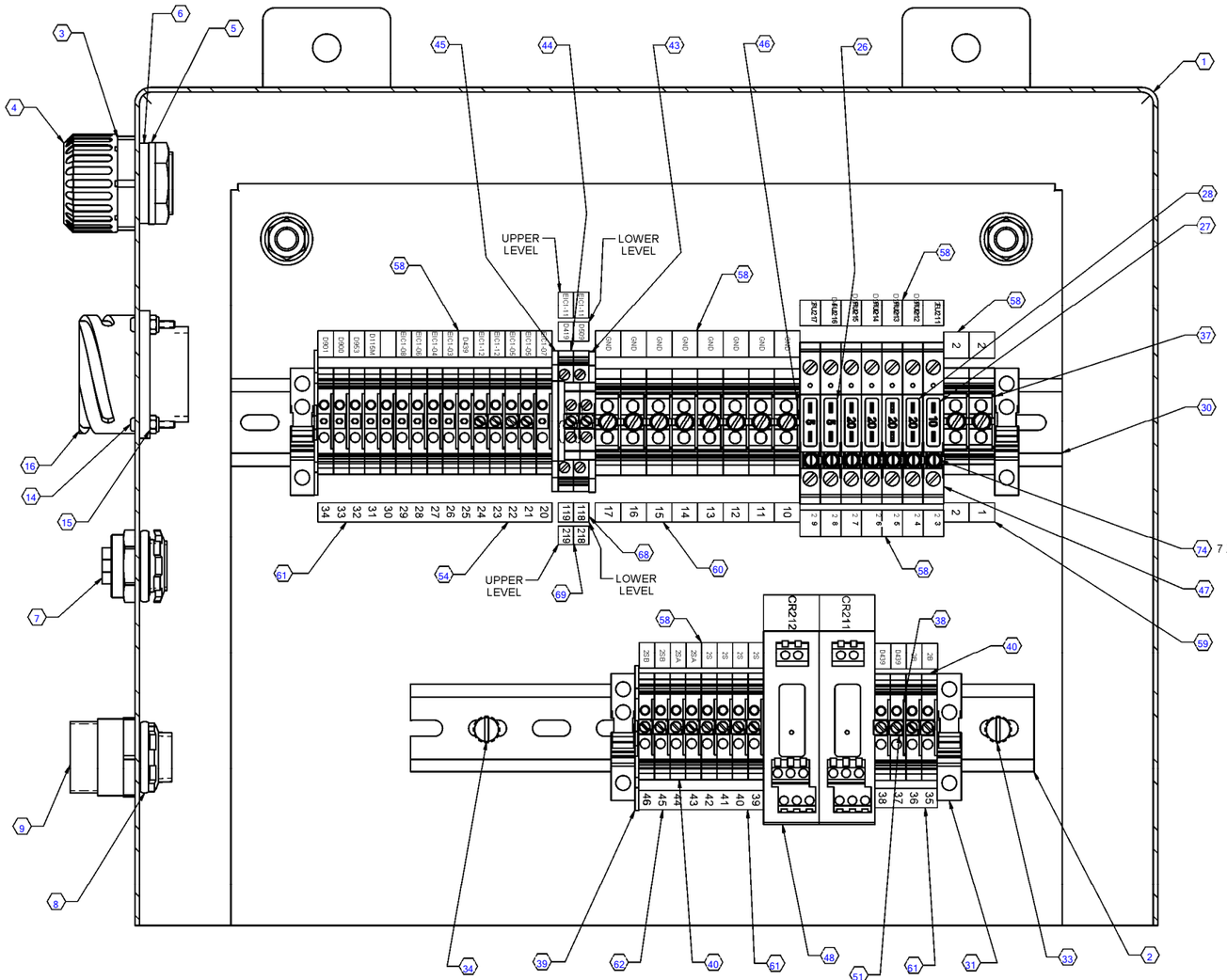
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ENGINE INTERFACE BOX ASSEMBLY

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ENGINE INTERFACE BOX ASSEMBLY

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	APP
	12	NO CHANGE THIS SHEET	NL12-1592	8-7-12	JFM	BS	BS



SECTION D-D
1:1

WIRING TABLE

PANEL WIRING

START POSITION	WIRE COLOR	SIZE	WIRE CODE	END LOCATION
ENGINE INTERFACE CONNECTOR - C		#16AWG	D115M	TERMINAL BLOCK 31 (TOP)
ENGINE INTERFACE CONNECTOR - G		#16AWG	D953	TERMINAL BLOCK 32 (TOP)
ENGINE INTERFACE CONNECTOR - H		#16AWG	D900	TERMINAL BLOCK 33 (TOP)
ENGINE INTERFACE CONNECTOR - P		#16AWG	D901	TERMINAL BLOCK 34 (TOP)
ENGINE INTERFACE CONNECTOR - N		#16AWG	D509	TERMINAL BLOCK 118 (TOP)
ENGINE INTERFACE CONNECTOR - P		#16AWG	D419	TERMINAL BLOCK 119 (TOP)
ENGINE INTERFACE CONNECTOR - A		#16AWG	D439	TERMINAL BLOCK 25 (TOP)
ENGINE POWER CONNECTOR - G		#12AWG	D240M	TERMINAL BLOCK 4 (TOP)
ENGINE POWER CONNECTOR - H		#12AWG	D241M	TERMINAL BLOCK 5 (TOP)
ENGINE POWER CONNECTOR - J		#12AWG	D240R	TERMINAL BLOCK 6 (TOP)
ENGINE POWER CONNECTOR - K		#12AWG	D241R	TERMINAL BLOCK 7 (TOP)
ENGINE POWER CONNECTOR - N		#12AWG	D440	TERMINAL BLOCK 8 (TOP)
ENGINE POWER CONNECTOR - A		#12AWG	D150M	TERMINAL BLOCK 14 (TOP)
ENGINE POWER CONNECTOR - B		#12AWG	D150M	TERMINAL BLOCK 13 (TOP)
ENGINE POWER CONNECTOR - C		#12AWG	D150R	TERMINAL BLOCK 12 (TOP)
ENGINE POWER CONNECTOR - D		#12AWG	D150R	TERMINAL BLOCK 11 (TOP)
ENGINE POWER CONNECTOR - P		#12AWG	D151	TERMINAL BLOCK 15 (TOP)
ENGINE POWER CONNECTOR - R		#12AWG	D953	TERMINAL BLOCK 16 (TOP)
ENGINE POWER CONNECTOR - S		#12AWG	D150R	TERMINAL BLOCK 17 (TOP)
EIC2 CONNECTOR PIN 1	GREEN		EIC2-01	NO CONNECTION - INSULATE & SECURE
EIC2 CONNECTOR PIN 2	BLACK		EIC2-02	TERMINAL BLOCK 31 (BOTTOM)
EIC2 CONNECTOR PIN 3	WHITE		EIC2-03	TERMINAL BLOCK 32 (BOTTOM)
DIAGNOSTIC CONNECTOR PIN A		#16AWG	D900	TERMINAL BLOCK 33 (BOTTOM)
DIAGNOSTIC CONNECTOR PIN B		#16AWG	D901	TERMINAL BLOCK 34 (BOTTOM)
DIAGNOSTIC CONNECTOR PIN C		#16AWG	2A	TERMINAL BLOCK 9 (TOP)
DIAGNOSTIC CONNECTOR PIN E		#16AWG	GND	TERMINAL BLOCK 10 (BOTTOM)
EIC1 CONNECTOR PIN 1	ORANGE		EIC1-01	RELAY CR212+
EIC1 CONNECTOR PIN 2	BLUE		EIC1-02	TERMINAL BLOCK 118 (BOTTOM)
EIC1 CONNECTOR PIN 3	WHITE/BLACK		EIC1-03	TERMINAL BLOCK 26 (BOTTOM)
EIC1 CONNECTOR PIN 4	RED/BLACK		EIC1-04	TERMINAL BLOCK 27 (BOTTOM)
EIC1 CONNECTOR PIN 5	GREEN/BLACK		EIC1-05	TERMINAL BLOCK 21 (BOTTOM)
EIC1 CONNECTOR PIN 6	ORANGE/BLACK		EIC1-06	TERMINAL BLOCK 28 (BOTTOM)
EIC1 CONNECTOR PIN 7	BLUE/BLACK		EIC1-07	TERMINAL BLOCK 20 (BOTTOM)
EIC1 CONNECTOR PIN 8	BLACK/WHITE		EIC1-08	TERMINAL BLOCK 29 (BOTTOM)
EIC1 CONNECTOR PIN 9	GREEN		EIC1-09	TERMINAL BLOCK 119 (BOTTOM)
EIC1 CONNECTOR PIN 10	RED		EIC1-10	TERMINAL BLOCK 40 (TOP)
EIC1 CONNECTOR PIN 11	WHITE		EIC1-11	TERMINAL BLOCK 218 (BOTTOM)
EIC1 CONNECTOR PIN 12	BLACK		EIC1-12	TERMINAL BLOCK 23 (BOTTOM)
RELAY CR212 C1		#16AWG	2S	TERMINAL BLOCK 39 (BOTTOM)
RELAY CR212 C2		#16AWG	2S	TERMINAL BLOCK 40 (BOTTOM)
RELAY CR212 NO1		#16AWG	2SA	TERMINAL BLOCK 43 (BOTTOM)
RELAY CR212 NO2		#16AWG	2SB	TERMINAL BLOCK 45 (BOTTOM)
RELAY CR212-		#16AWG	GND	TERMINAL BLOCK 16 (BOTTOM)
211 SOLENOID 2S		#16AWG	2S	TERMINAL BLOCK 41 (BOTTOM)
211 SOLENOID 2SA		#16AWG	2SA	TERMINAL BLOCK 44 (BOTTOM)
212 SOLENOID 2SB		#16AWG	2SB	TERMINAL BLOCK 46 (BOTTOM)
212 SOLENOID 2S		#16AWG	2S	TERMINAL BLOCK 42 (BOTTOM)
211 SOLENOID S-GND		#16AWG	S-GND	SOLENOID 212 S-GND
RELAY CR211+		#16AWG	EIC1-05	TERMINAL BLOCK 22 (BOTTOM)
RELAY CR211-		#16AWG	EIC1-12	TERMINAL BLOCK 24 (BOTTOM)
RELAY CR211 NO1		#16AWG	2B	TERMINAL BLOCK 35 (BOTTOM)
RELAY CR211 NO2		#16AWG	2B	TERMINAL BLOCK 36 (BOTTOM)
TERMINAL BLOCK 35 (TOP)		#16AWG	2B	TERMINAL BLOCK 3 (TOP)
RELAY CR211 C1		#16AWG	D439	TERMINAL BLOCK 37 (BOTTOM)
RELAY CR211 C2		#16AWG	D439	TERMINAL BLOCK 38 (BOTTOM)
TERMINAL BLOCK 37 (TOP)		#16AWG	D439	TERMINAL BLOCK 25 (BOTTOM)
TERMINAL BLOCK 1 (BOTTOM)		#8AWG	2	TERMINAL BLOCK 7 (BOTTOM)
TERMINAL BLOCK 2 (BOTTOM)		#8AWG	2	TERMINAL BLOCK 4 (BOTTOM)

EXTERNAL WIRING

START POSITION		SIZE		END LOCATION
TERMINAL BLOCK 1 (TOP)		#6AWG	2	TERMINAL 2 IN BATTERY BOX
TERMINAL BLOCK 10 (TOP)		#6AWG	GND	MACHINE FRAME
TERMINAL BLOCK 39 (TOP)		#10AWG	2-S	2-S TERMINAL ON RIGHT STARTER MOTOR
LEFT SOLENOID 4L TERMINAL		#10AWG	4L	LEFT STARTER MOTOR SOLENOID
RIGHT SOLENOID 4R TERMINAL		#10AWG	4R	RIGHT STARTER MOTOR SOLENOID
LEFT SOLENOID S-GND TERMINAL		#10AWG	S-GND	S-GND TERMINAL ON RIGHT STARTER MOTOR

SEPARATION PLATE LOCATIONS (PART NUMBER 422-7295)
BETWEEN TERM BLOCK #'S
22 - 23
42 - 43
44 - 45
36 - 37

L-BRIDGE LOCATIONS (PART NUMBER 422-8651)	
START	END
TB218	TB219
TB21	TB22
TB23	TB24
TB39	TB42
TB35	TB36
TB37	TB38
TB43	TB44
TB45	TB46

L-BRIDGE LOCATIONS (PART NUMBER 426-4185)	
START	END
TB3	TB9

L-BRIDGE LOCATIONS (PART NUMBER 425-1788)	
START	END
TB1	TB2
TB10	TB17

TORQUE SPECIFICATIONS CHART					
ITEM NO.	LTI P/N	MIN TORQUE (lb in)	MAX TORQUE (lb in)	MIN TORQUE (Nm)	MAX TORQUE (Nm)
37	4228652	13.3	15.9	1.5	1.8
40	4227190	5.3	7.1	0.6	0.8
44	4264993	5.3	7.1	0.6	0.8
47	4264182	13.3	14.2	1.5	1.6
48	4228641	4.4	5.3	0.5	0.6

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

ASSEMBLY DDEC ENGINE INTERFACE JUNCTION BOX		SIZE D	DWG NO. 4267190	REV 12	
DRAWN L.WILLIAMS		DO NOT SCALE			
ISSUED 10-15-08	SCALE 1/2	EST WT 48.6 lbm	SHEET 3 OF 4		

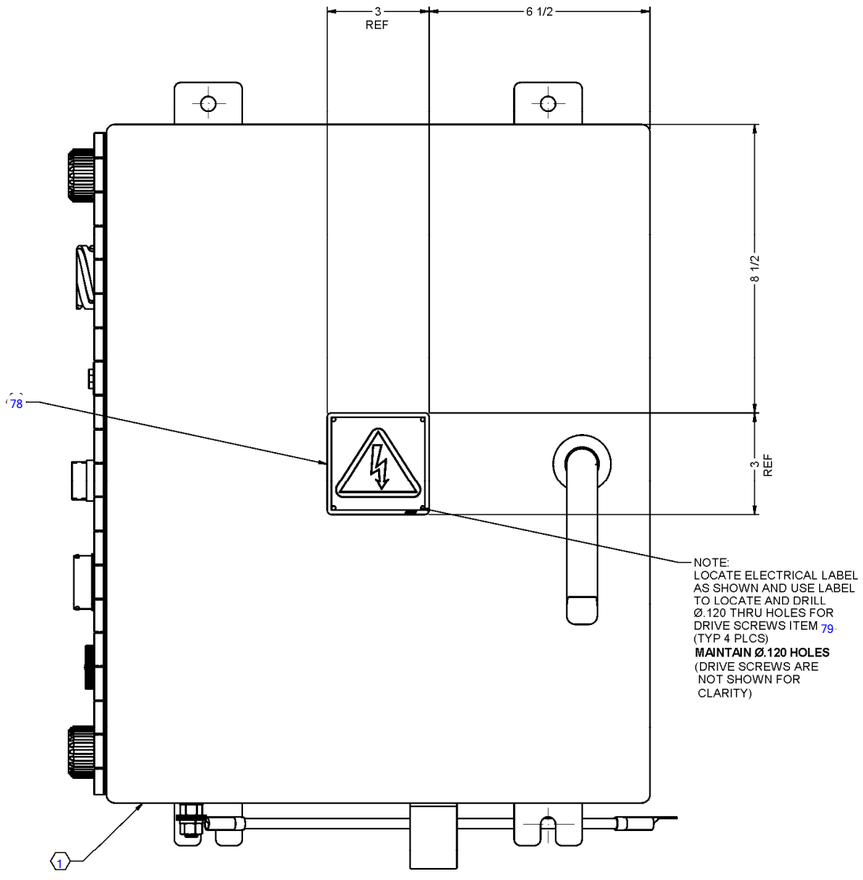
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ENGINE INTERFACE BOX ASSEMBLY

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ENGINE INTERFACE BOX ASSEMBLY

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	CHK	APP
	12	NO CHANGE THIS SHEET	NL12-1592	8-7-12	JFM	BS	BS



ELECTRICAL LABEL DETAIL

ASSEMBLY DDEC ENGINE INTERFACE JUNCTION BOX	SIZE D	DO NOT SCALE	DWG NO. 4267190	REV. 12	
DRAWN L. WILLIAMS					
ISSUED 10-15-08	SCALE 1/2	EST WT 48.6 lbm	SHEET 4 OF 4		

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ENGINE INTERFACE BOX ASSEMBLY

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ENGINE INTERFACE BOX ASSEMBLY

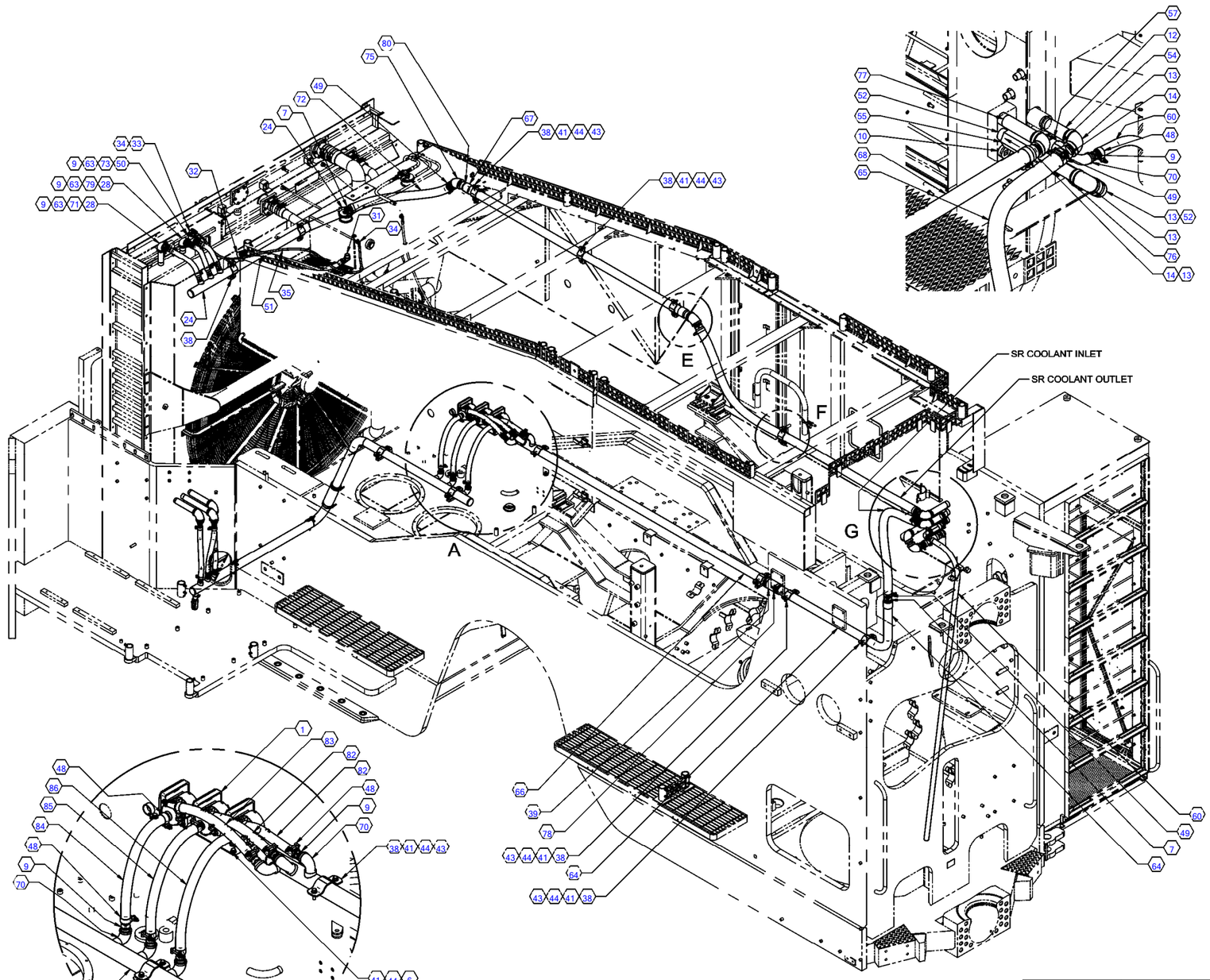
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4267190			ENGINE INTERFACE BOX ASSEMBLY - DDEC		1/8/19
1	R4267189	1		· JUNCTION BOX WITH PANEL		
	R4292910	1		· · HANDLE, JUNCTION BOX		1/8/19
	R4292921	1		· · CAM LATCH, HANDLE - JUNCTION BOX		1/8/19
2	R4265027	1		· RAIL MOUNT, 9-3/4" DIN		
3	R4217705	2		· ADAPTER BODY		
4	R4245614	2		· NUT, CAP - CN21		
5	R4217715	2		· LOCKNUT, NYLON - LNP-M25		
6	R4217711	2		· RING, SEALING - SRN21		
7	R4265238	1		· RECEPTACLE, 3 PIN - FEMALE		
8	R4046896	2		· RING, SEALING - 1/2" - CONDUIT		
9	R4264983	1		· RECEPTACLE, 12 PIN - MALE		
10	R4253746	1		· RECEPTACLE,16 PIN HD44		
11	N.P.N.			· NOT USED		9/21/16
12	R4153882	4		· PLUG, SEALING - #12-16 AWG		
13	R4153881	12		· CONTACT, #12 SOCKET		
14	R4105602	8		· SCREW, #4-40 X 5/8" - P.H., S.S.		
15	R4105654	8		· LOCKNUT, #4-40 - S.S., NYLON		
16	R4232096	1		· RECEPTACLE, 37 PIN CONNCTR KIT		
17	R4238940	1		· RECEPTACLE, 6 PIN DEUTSCH HD10		
18	R4268634	1		· BREATHER/DRAIN, S.S.		
19	R4229234	2		· LOCKWASHER, 3/8" - S.S.		
20	R2063953	4		· NUT, 3/8"-16 - S.S.		
21	R4229233	4		· FLATWASHER, 3/8" - S.S.		
22	R4019681	2		· TERMINAL, WIRE - #8 - 3/8" INS		
23	R4228927	1		· CABLE, GROUND - #8AWG 3/8 LUGS		
24	R4129671	2		· LOCKWASHER, 3/8" - S.S.		
25	R4163232	1		· ROD, THREADED - 3/8"-16 X 2-1/2" S.S.		
26	R4265742	2		· FUSE, 5A 32V - BLADE TYPE TAN		
27	R4265743	1		· FUSE, 10A 32V - BLADE TYPE RED		
28	R4265745	4		· FUSE, 20A 32V - BLADE TYPE YELLOW		
29	R4140963	2		· DIODE ASSEMBLY, 6A-1000V - 3-1/8"		
30	R4250959	1		· RAIL MOUNT, 12" DIN		
31	R4228648	4		· BRACKET, END		
32	R4017134	4		· NUTSERT, #10-32		
33	R0182634	4		· LOCKWASHER, #10 - EXTERNAL, TOOTH		
34	R4012632	4		· SCREW, #10-32 X 5/8" - P.H.		
35	R4111905	2	FT	· CABLE, #8 AWG 2000V		
36	R4142986	2		· SOLENOID 24V		
37	R4228652	10		· TERMINAL BLOCK, 1P 2TERM #6AWG DIN		
38	R4227295	4		· SEPARATING PLATE		
39	R4228650	2		· PARTITION PLATE		
40	R4227190	27		· TERMINAL BLOCK, 1-2 TERMINAL - #10 AWG		
41	R4120401	30	FT	· CABLE, #16 AWG - 600V		
42	R4228701	1		· MARKER, DIN - TERMINAL BLOCK, #11-20		
43	R4247479	1		· SPACER PLATE, GRAY		
44	R4264993	2		· TERMINAL ASSEMBLY, BLK/RESISTOR 10K OHMS		
45	R4247477	1		· END COVER, GRAY		
46	R4251788	10		· BRIDGE, FIXED		
47	R4264182	7		· TERMINAL BLOCK, FUSE		
48	R4228641	2		· RELAY, 5A 24VDC - DPDT		
49	R0417597	4		· BOLT, 1/4"-20 X 1/2"		9/21/16
50	R0213584	4		· LOCKWASHER, 1/4"		
51	R4228651	18		· L-BRIDGE, DIN		
52	R4010923	4		· FLATWASHER, 1/4"		
53	R4019571	4		· NUTSERT, 1/4"-20		
54	R4228702	1		· MARKER, DIN - TERMINAL BLOCK, #21-30		
55	R4019421	2		· TERMINAL, WIRE - #16 14 .313 INS		

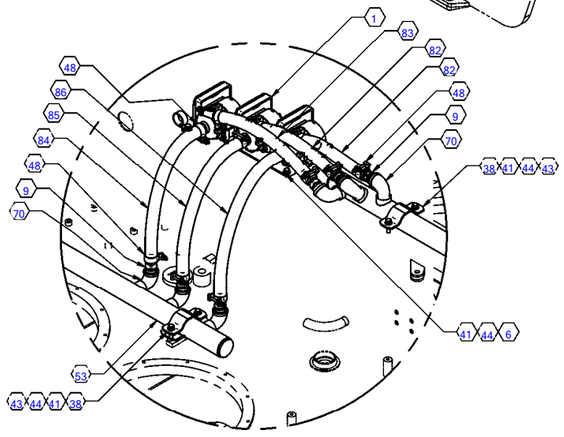
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
56	R4019418	4		· TERMINAL, WIRE - #16-14, #10 HOLE		
57	R4267191	1		· CODE SHEET, ENGINE INTERFACE BOX ASSEMBLY		
58	R4268594	1		· MARKERS, TERMINAL - DDEC IV		
59	R4267210	1		· MARKER DIN TERM BLK #1 - 10		
60	R4267211	1		· MARKER DIN TERM BLK #11 - 20		
61	R4228703	1		· MARKER, DIN - TERMINAL BLOCK, #31-40		
62	R4228704	1		· MARKER, DIN - TERMINAL BLOCK, #41-50		
63	R4216108	4		· WIRE TERMINAL		
64	R4216109	2		· CAVITY PLUG		
65	R4216110	1		· CAP, PROTECTIVE		
66	R0453625	6	IN	· CHAIN, #8 SASH		
67	R4018725	20		· CABLE TIE, 4" - BENT TIP/BLACK		
68	R4228711	1		· MARKER, DIN - TERMINAL BLOCK, #111-120		
69	R4228721	1		· MARKER, DIN - TERMINAL BLOCK, #211-220		
70	R4270210	2		· FERRULE, INSULATED - 6AWG .472LG BLUE		
71	R4270209	4		· FERRULE, 8 AWG - RED		
72	R4270208	1		· FERRULE, 10 AWG - YELLOW		
73	R4270205	55		· FERRULE, INSULATED - 16AWG .315LG BLACK		
74	R4264185	7		· BRIDGE, FIXED		
75	R4232048	30	FT	· CABLE, #12 AWG 1C EXN DLO 600V		
76	R4270207	12		· FERRULE, 12 AWG - GRAY		
77	R4274370	1		· LABELS		
78	R4268617	1		· LABEL, SAFETY - HIGH VOLTAGE, INTERNATIONAL SYMBOL - S.S.		9/21/16
79	R0181073	4		· SCREW, DRIVE - #6-32 X 3/16"		9/21/16
	R4267190	REF		DRAWING, ENGINE INTERFACE BOX ASSEMBLY (12)		9/21/16

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SR COOLER PLUMBING GROUP





DETAIL A

ITEM	PART NO.	QTY	DESCRIPTION
86	4271735	1	HOSE SR COOLANT 1.00 ID X 22 IN
85	4271693	1	HOSE SR COOLANT 1.00 ID X 21 IN
84	4275464	1	HOSE SR COOLANT 1.00 ID X 20 IN
83	4271722	1	HOSE SR COOLANT 1.00 ID X 16-1/2 IN
82	4275460	2	HOSE SR COOLANT 1.00 ID X 13 IN
81	4290248	1	PIPE NIP 1.250 12.00 700 SS
80	4290156	2	PIPE NIP 2.000 3.000 700 SS

ITEM	PART NO.	QTY	DESCRIPTION
79	4290164	1	PIPE NIP 1.250 3.00 700 SS
78	0983442	4	CLAMP HOSE T-BOLT 3.00
77	4290131	1	PIPE NIP 1.500 8.00 700 SS
76	4290142	1	PIPE NIP 1.500 10.00 700 SS
75	4290237	2	PIPE ELB 2.000 45
73	4290298	1	PIPE NIP 1.250 1.625 700 SS
72	4276077	1	HOSE SR COOLANT 2.00 39.00
71	4290167	1	PIPE NIP 1.250 6.00 700 SS
70	4290127	7	PIPE ELBOW 90 DEG STREET 1.000 150 SS
69	4108211	1	HOSE 2-1/2 X 10 LG
68	4275554	1	HOSE SR COOLANT 2.00 112.00
67	4275973	1	STR SR COOLANT TUBE RETURN
66	4292087	1	STR SR COOLANT MANIFOLD L1850/2350
65	4275553	1	HOSE SR COOLANT 2.00 43.00
64	4275550	1	STR SR COOLANT TUBE INLET
63	4290133	8	PIPE BUSHING 1.250 1.000 6000 SS
62	4276132	1	HOSE 1-1/2 X 6 LG
61	4276136	2	CLAMP HOSE T-BOLT 1.875 - 2.125
60	4275490	1	HOSE SR COOLANT RELIEF
57	4290132	1	PIPE RED 1.500 1.250 BSH 6000 SS
56	4290138	2	KING COMBINATION 1.500 SS
55	4275489	1	VALVE CHECK 1-1/2 NPT
54	4275488	1	VALVE RELIEF 30 PSI 1-1/4 NPT
53	4275481	1	STR SR COOLANT TUBE MANIFOLD
52	4290129	2	PIPE NIP 1.500 2.00 700 SS
51	6989142	1	HOSE 1000 16 55.0 0J 0J
50	4290247	1	PIPE TEE 1.25 300 SS
49	0983426	6	CLAMP HOSE T-BOLT 2.50
48	4276135	25	CLAMP HOSE T-BOLT 1.44 - 1.56
44	0753123	32	WASHER LOCK SPR .375 .68 .09
43	4009640	28	BOLT HX .375 1.500 NC G8
41	0808221	32	WASHER FLAT .375 .81 .08
39	4015086	1	HOSE 2-1/2 X 6 LG
38	4237218	14	CLAMP HALF RAD 2.50
36	4290166	2	PIPE NIP 1.250 9.000 700 SS
35	4158773	1	HOSE 250 4 88.0 0J 0J
34	4011748	2	FTG HYD 90 4 MJ 4 MP JUMP
33	4290297	1	PIPE RED 1.25 .250 BSH SS
32	4002443	1	FTG HYD 90 16 MJ 16 MP
31	4002434	1	FTG HYD 45 16 MJ 16 MP
29	4271720	3	HOSE COOLANTANT 1.00 22 IN
28	4290246	5	ELBOW 1.250 90 150 SS
27	4290148	1	PIPE NIP 1.000 3.00 700 SS
24	4276004	1	STR MANIFOLD SR COOLANT RETURN
23	4271709	3	HOSE SR COOLANT 1.00 ID X 17-1/2 IN
22	4271712	1	STR MANIFOLD SR COOLANT
21	2199013	1	BALL VALVE 1
14	4290143	2	NIPPLE KING COMBINATION 2 .00 1.50 SS
13	4290130	4	PIPE ELBOW 1.500 90 700 SS
12	4290126	1	PIPE NIP 1.500 6.00 700 SS
10	0031470	1	PIPE PLUG 1.500 CS SQ
9	4290137	19	KING COMBINATION NIPPLE 1.000 SS
7	4290144	4	NIPPLE KING COMBINATION 2.00 2.00 SS
6	0810970	4	BOLT HX .375 .750 NC G8 FT
1	4289041	1	ASSY TRI SR COOLING PUMP

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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 427-3522

		DATE
DWN	sschluter	03-16-11
CHK	JBD	03-31-11
ENGR		
PROD ENGR	JBD	03-31-11
PROJ APPROVAL		
MATL		

KOMATSU

GP SR COOLANT PLUMBING L1850/2350

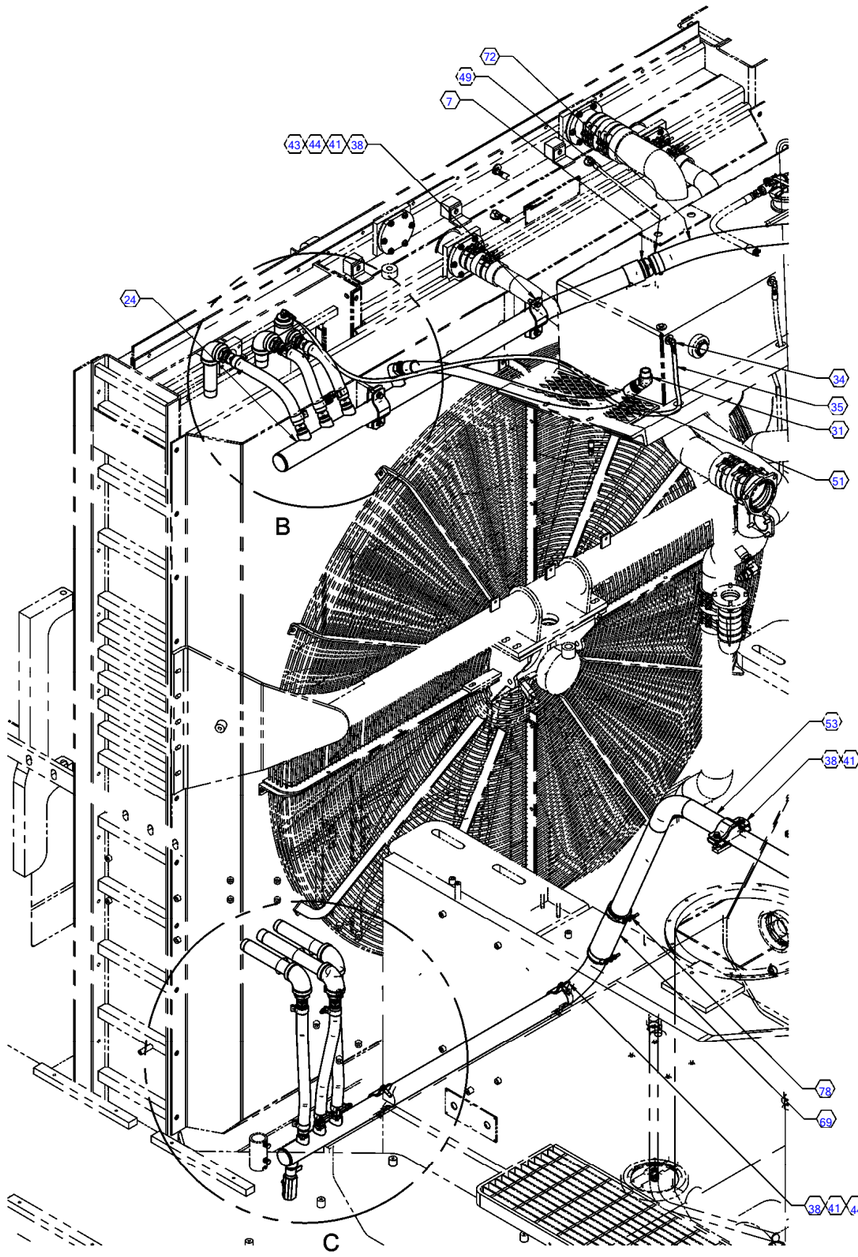
SIZE D | DO NOT SCALE | DWG NO. 4271688 | REV 17

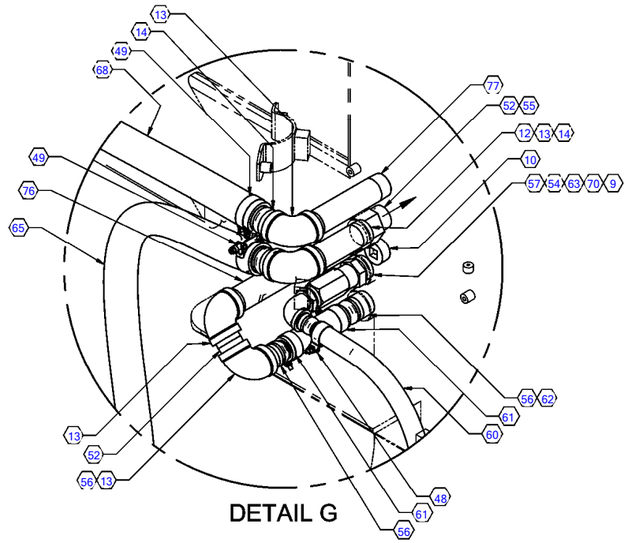
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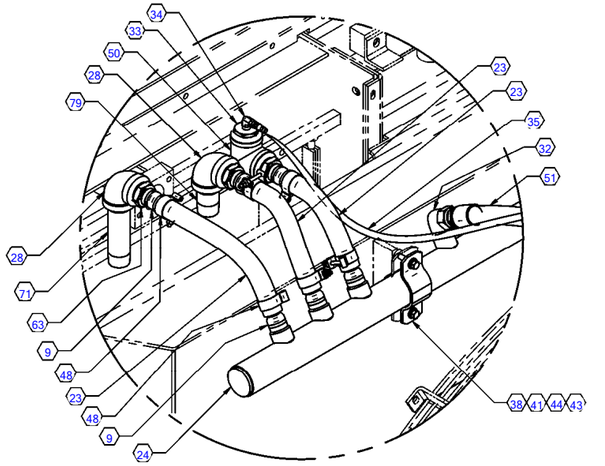
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SR COOLER PLUMBING GROUP

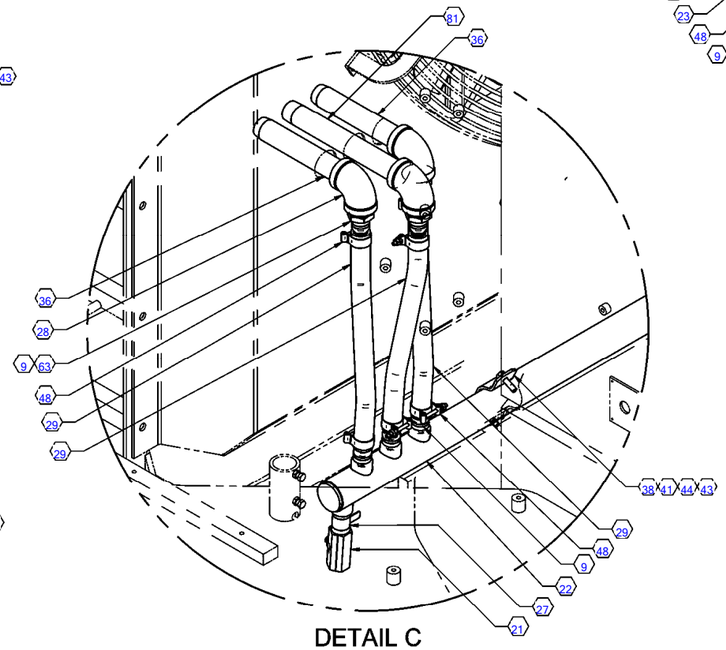




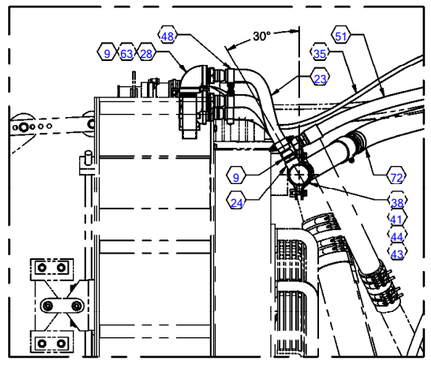
DETAIL G



DETAIL B



DETAIL C



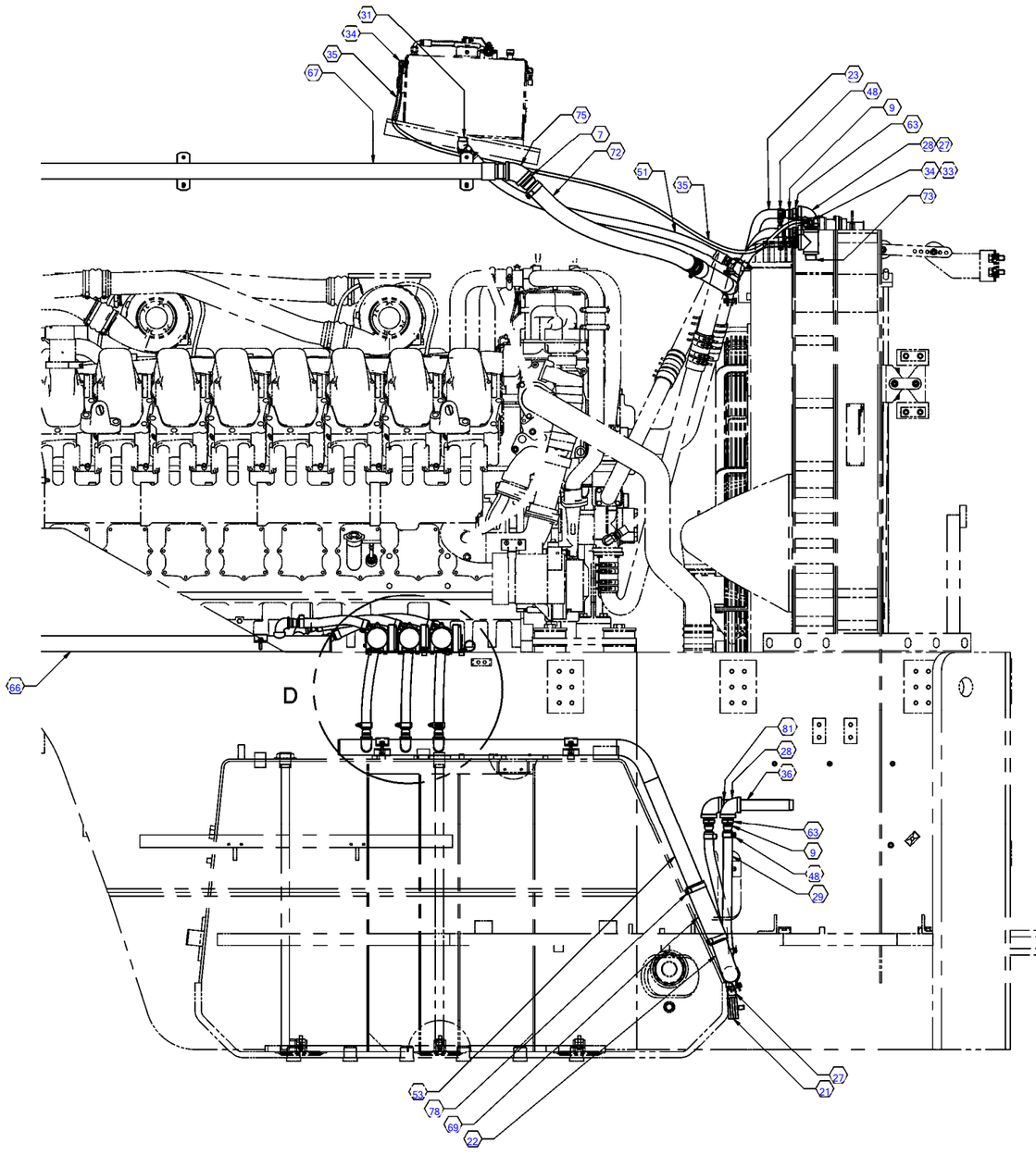
RADIATOR RH SIDE VIEW
ITEM 24 INSTALLATION
ANGLE OF ROTATION
SCALE 1:8

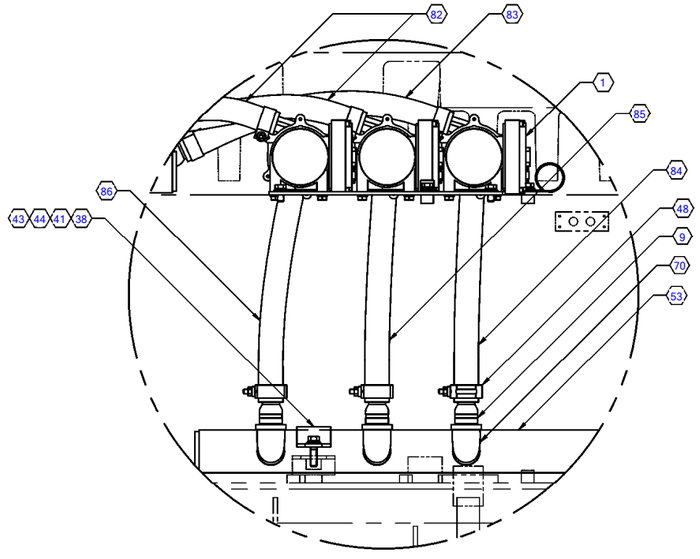
GP SR COOLANT PLUMBING L1850/2350		SIZE D	DO NOT SCALE	DWG NO. 4271688	REV 17
DRAWN sschluter					
ISSUED 03-16-11		SCALE 1:8	EST WT 266.4 lbm	SHEET 2 OF 3	

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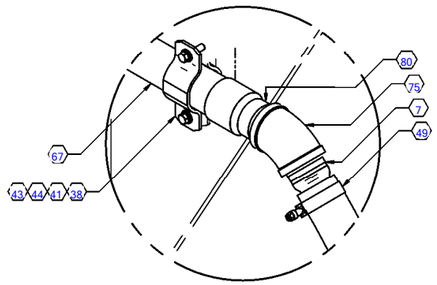
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SR COOLER PLUMBING GROUP

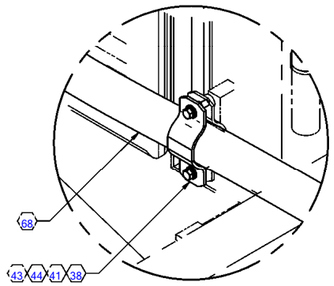




DETAIL D



DETAIL E



DETAIL F

GP SR COOLANT PLUMBING L1850/2350			SIZE D	DO NOT SCALE	DWG NO. 4271688 REV 17
DRAWN sschluter					
ISSUED 03-16-11			SCALE 1:40	EST WT 286.4 lbm	SHEET 3 OF 3

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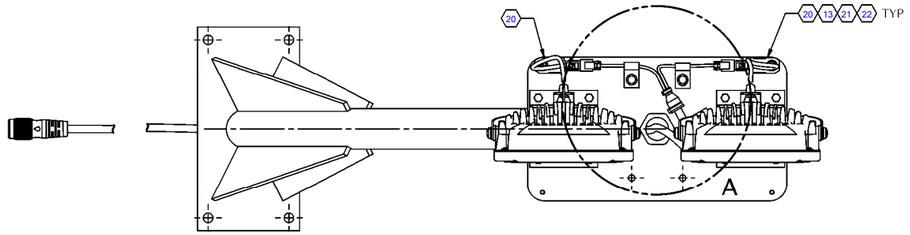
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271688		SR COOLER PLUMBING GROUP		1/16/19
1	R4289041	1	· PUMP, WATER CIRCULATING - TRIPLE		7/25/18
	R4267796	3	· · PUMP, WATER CIRCULATING		
	R4259344	REF	· · HARNESS ASSEMBLY, COOLING CIRCULATION PUMP		11/6/17
	R4267798	REF	· · CABLE, WATER PUMP - LINCS II		11/6/17
2	N.P.N.		· NOT USED		7/25/18
3	N.P.N.		· NOT USED		5/21/14
4	N.P.N.		· NOT USED		5/21/14
5	N.P.N.		· NOT USED		7/25/18
6	R0810970	4	· BOLT, 3/8"-16 X 3/4"		7/25/18
7	R4290144	4	· NIPPLE, 2" MP X 2" I.D. HOSE - S.S.		5/11/17
8	N.P.N.		· NOT USED		5/21/14
9	R4290137	19	· NIPPLE, 1" MP X 1" I.D. HOSE - S.S.		5/11/17
10	R0031470	1	· PLUG, PIPE - 1-1/2", SQ. CSK.		5/21/14
11	N.P.N.		· NOT USED		5/21/14
12	R4290126	1	· NIPPLE, PIPE - 1-1/2" X 6" - S.S.		5/11/17
13	R4290130	4	· ELBOW, 1-1/2" FP X 90 deg. X 1-1/2" FP - S.S.		5/11/17
14	R4290143	2	· NIPPLE, PIPE - 2" X 1-1/2" - S.S.		5/11/17
15	N.P.N.		· NOT USED		5/21/14
16	N.P.N.		· NOT USED		7/25/18
17	N.P.N.		· NOT USED		5/21/14
18	N.P.N.		· NOT USED		5/21/14
19	N.P.N.		· NOT USED		5/21/14
20	N.P.N.		· NOT USED		5/21/14
21	R2199013	1	· VALVE, BALL - 1"		
22	R4271712	1	· MANIFOLD STRUCTURE, SR COOLANT		
23	R4271709	3	· HOSE ASSEMBLY, 1" X 17-1/2"		
24	R4276004	1	· MANIFOLD STRUCTURE, SR COOLANT		
25	N.P.N.		· NOT USED		5/21/14
26	N.P.N.		· NOT USED		7/25/18
27	R4290148	1	· NIPPLE, PIPE - 1" X 3" - S.S.		5/11/17
28	R4290246	5	· ELBOW, 1-1/4" FP X 90 deg. X 1-1/4" FP - S.S.		5/11/17
29	R4271720	3	· HOSE ASSEMBLY, 1" X 25"		
30	N.P.N.		· NOT USED		5/21/14
31	R4002434	1	· ELBOW, 1" MP X 45 deg. X #16 MJ		5/21/14
32	R4002443	1	· ELBOW, 1" MP X 90 deg. X #16 MJ		5/21/14
33	R4290297	1	· BUSHING, 1/4" FP X 1-1/4" MP - S.S.		11/6/17
34	R4011748	2	· ELBOW, 1/4" MP X 90 deg. X #4 MJ		5/21/14
35	R4158773	1	· HOSE ASSEMBLY, #4 X 88"		5/21/14
36	R4290166	2	· NIPPLE, PIPE - 1-1/4" X 9" - S.S.		5/11/17
37	N.P.N.		· NOT USED		5/21/14
38	R4237218	14	· CLAMP HALF, 2-1/2"		5/21/14
39	R4015086	1	· HOSE, 2-1/2" I.D. X 6"		1/16/19
40	N.P.N.		· NOT USED		5/21/14
41	R0808221	32	· FLATWASHER, 3/8"		7/25/18
42	N.P.N.		· NOT USED		5/21/14
43	R4009640	28	· BOLT, 3/8"-16 X 1-1/2"		5/21/14
44	R0753123	32	· LOCKWASHER, 3/8"		5/21/14
45	N.P.N.		· NOT USED		5/21/14
46	N.P.N.		· NOT USED		7/25/18
47	N.P.N.		· NOT USED		7/25/18
48	R4276135	25	· CLAMP, HOSE - T-BOLT, 1-1/2"		5/21/14
49	R0983426	6	· CLAMP, HOSE - T-BOLT, 2-1/2"		5/21/14
50	R4290247	1	· TEE, 1-1/4" FP - S.S.		5/21/14
51	R6989142	1	· HOSE ASSEMBLY, #16 X 55"		5/21/14
52	R4290129	2	· NIPPLE, PIPE - 1-1/2" X 2" - S.S.		5/11/17
53	R4275481	1	· MANIFOLD TUBE STRUCTURE, SR COOLANT		5/21/14
54	R4275488	1	· VALVE, RELIEF - 30 PSI		5/21/14

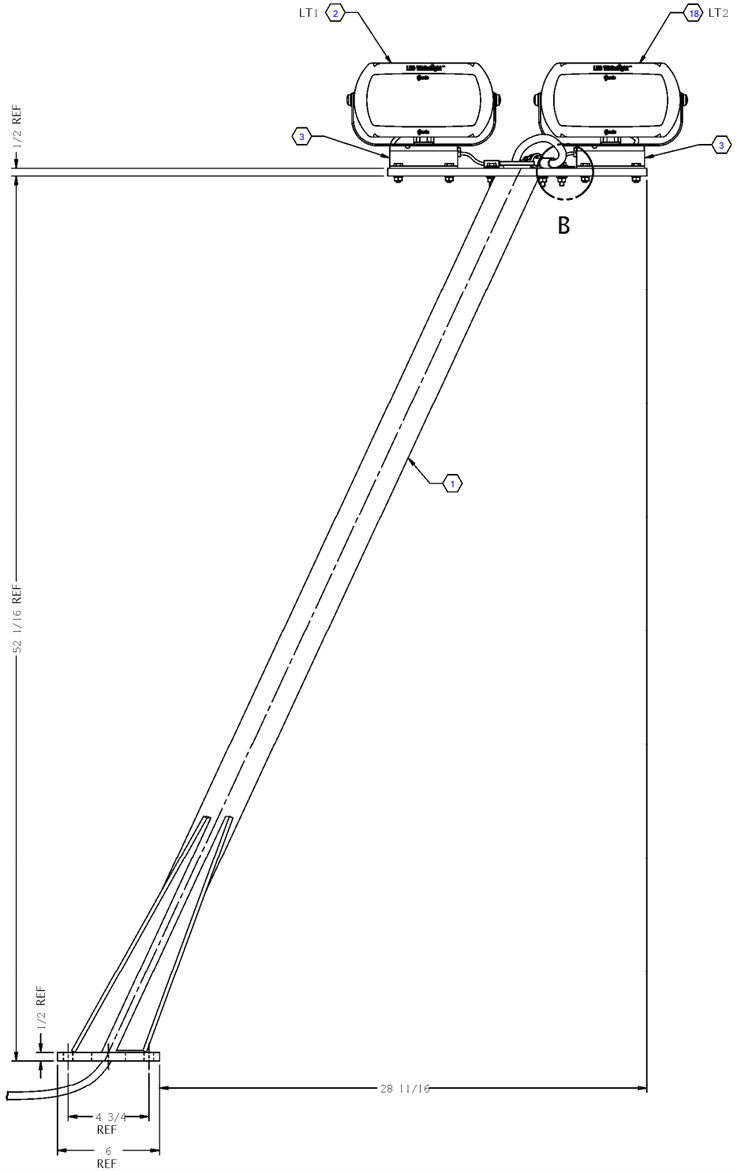
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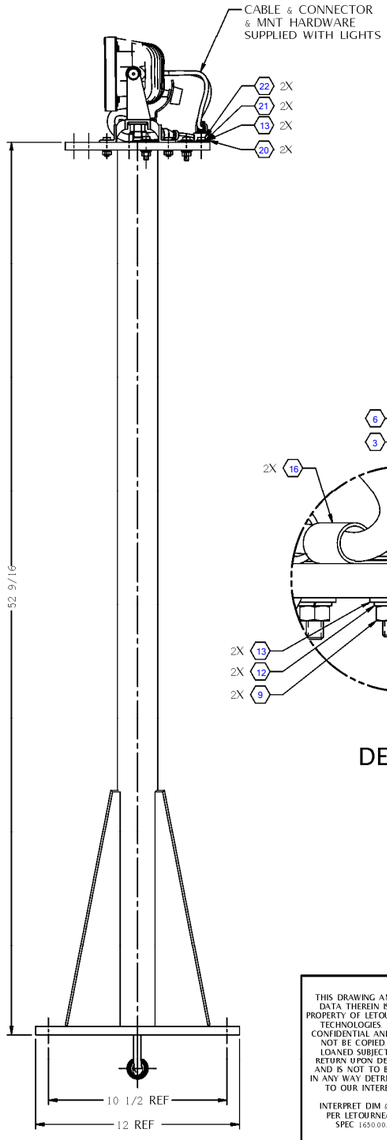
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
55	R4275489	1	· VALVE, CHECK - 1-1/2" - 25 PSI		5/21/14
56	R4290138	2	· ADAPTER, 1-1/2" MP X 1-1/2" I.D. HOSE - S.S.		5/11/17
57	R4290132	1	· REDUCER, 1-1/4" FP X 1-1/2" MP - S.S.		5/11/17
58	N.P.N.		· NOT USED		5/21/14
59	N.P.N.		· NOT USED		5/21/14
60	R4275490	1	· HOSE, 1" I.D. X 101"		5/21/14
61	R4276136	2	· CLAMP, HOSE - T-BOLT, 2"		5/21/14
62	R4276132	1	· HOSE, 1-1/2" I.D. X 6"		5/21/14
63	R4290133	8	· REDUCER, 1" FP X 1-1/4" MP - S.S.		7/25/18
64	R4275550	1	· TUBE STRUCTURE, 2-1/2" O.D. X 90 deg.		5/21/14
65	R4275553	1	· HOSE, 2" I.D. X 43"		5/21/14
66	R4292087	1	· MANIFOLD TUBE STRUCTURE		7/25/18
67	R4275973	1	· TUBE STRUCTURE, 93"		5/21/14
68	R4275554	1	· HOSE, 2" I.D. X 112"		5/21/14
69	R4108211	1	· HOSE, 2-1/2" I.D. X 10"		5/21/14
70	R4290127	7	· ELBOW, 1" FP X 90 deg. X 1" MP - S.S.		7/25/18
71	R4290167	1	· NIPPLE, PIPE - 1-1/4" X 6" - S.S.		5/11/17
72	R4276077	1	· HOSE, 2" I.D. X 39"		5/21/14
73	R4290298	1	· NIPPLE, PIPE - 1-1/4" X 1-1/2" - S.S.		11/6/17
74	N.P.N.		· NOT USED		5/21/14
75	R4290237	2	· ELBOW, 2" FP X 45 deg. X 2" MP - S.S.		5/11/17
76	R4290142	1	· NIPPLE, PIPE - 1-1/2" X 10" - S.S.		5/11/17
77	R4290131	1	· NIPPLE, PIPE - 1-1/2" X 8" - S.S.		5/11/17
78	R0983442	4	· CLAMP, HOSE - T-BOLT, 3"		5/21/14
79	R4290164	1	· NIPPLE, PIPE - 1-1/4" X 3" - S.S.		5/11/17
80	R4290156	2	· NIPPLE, PIPE - 2" X 3" - S.S.		5/11/17
81	R4290248	1	· NIPPLE, PIPE - 1-1/4" X 12" - S.S.		5/11/17
82	R4275460	2	· HOSE, 1" I.D. X 13"		7/25/18
83	R4271722	1	· HOSE, 1" I.D. X 16-1/2"		7/25/18
84	R4275464	1	· HOSE, 1" I.D. X 20"		7/25/18
85	R4271693	1	· HOSE, 1" I.D. X 21"		7/25/18
86	R4271735	1	· HOSE, 1" I.D. X 22"		7/25/18
		REF	DRAWING, SR COOLER PLUMBING GROUP (R427168817)		7/25/18

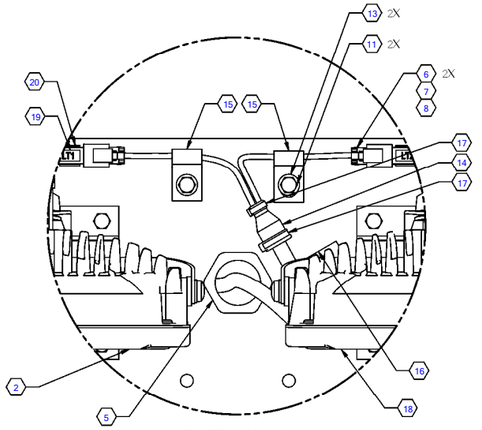
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FRONT LIGHT POLE ASSEMBLY

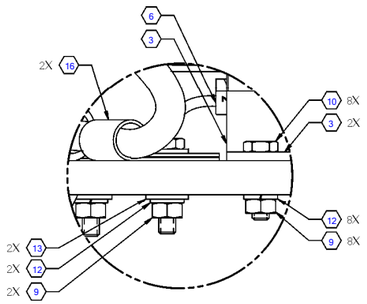








DETAIL A
1:2



DETAIL B
1:1

TURCK CABLE CONNECTOR

1 (ORG)	1 (RED)	ITEM 2 (LT1)
2 (BLU)	2 (WHT)	
3 (WHT/BLK)	1 (RED)	ITEM 18 (LT2)
4 (RED/BLK)	2 (WHT)	

WIRING SCHEMATIC

ITEM	PART NO	QTY	DESCRIPTION
22	0417597	2	BOLT HEX .250 .500 NC G8 FT
21	0506807	2	WASHER LOCK EXT .256 .51 .03
20	4259249	2	METAL CLIP/MOUNTING BRACKET
19	4264160	1	LABEL LIGHT MNT POLES
18	4268632	1	24V LED WORKLAMP-WIDE FLOOD W PLUG
17	4018725	4	CABLE TIE 4" BENT TIP/BLK
16	4153802	1	CABLE CLAMP INS 1/2
15	4153801	2	CLAMP CABLE INSL .38 .531
14	4217725	1	END SLEEVE ESN16
13	4010923	8	WASHER FLAT .250 .63 .08
12	0213584	11	WASHER LOCK SPR .25 .49 .06
11	4009612	3	BOLT HX .250 1.250 NC G8
10	0814157	8	BOLT HX .250 1.000 NC G8
9	4012935	11	NUT HEX .250 NC G8 PL
8	4255413	2	WEDGE W2S DEUTSCH
7	4185764	4	SOCKET CONTACT SIZE 16
6	4255414	2	PLUG DT06-2S DEUTSCH
5	4016302	1	CHASE NIPPLE 1-1/4 -7 NC U/INS
4	4262045	1	CABLE 12 PIN - OPEN 6M
3	4056629	2	MOUNT VIBRO INSULATOR 9/16 HOLE
2	4270214	1	24V LED WORK LAMP-FLOOD W PLUG
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°, 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
425-8782

		DATE
DWN		
CHK		
ENGR		
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY LIGHT MNT POLE LH

SIZE	DWG NO.	REV
D DO NOT SCALE	4259947	05

SCALE 1/8 | EST WT 70.6 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.	Part Name	Sugg. Qty.	Rev Date
	R4259947		FRONT LIGHT POLE ASSEMBLY - LEFT SIDE		3/31/11
1	R4259948	1	· POLE STRUCTURE, FRONT LIGHT		
2	R4270214	1	· LAMP ASSEMBLY, FLOOD - LED, 24V		3/31/11
	R4270213	1	· · LIGHT UNIT, FLOOD - LED, 24V		3/31/11
	R4270260	1	· · PLUG, DEUTSCH KIT		3/31/11
	R4223104	1	· · FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		3/31/11
3	R4056629	2	· MOUNT, VIBRATION INSULATOR		
4	R4262045	1	· CABLE, 12 PIN		
5	R4016302	1	· NIPPLE, 1-1/4"-7		
6	R4255414	2	· PLUG		
7	R4185764	4	· SOCKET, CONTACT - 16		
8	R4255413	2	· WEDGE		
9	R4012935	11	· NUT, 1/4"-20		
10	R0814157	8	· BOLT, 1/4"-20 X 1"		
11	R4009612	3	· BOLT, 1/4"-20 X 1-1/4"		
12	R0213584	11	· LOCKWASHER, 1/4"		
13	R4010923	8	· FLATWASHER, 1/4"		
14	R4217725	1	· SLEEVE, END		
15	R4153801	2	· CLAMP, CABLE - INSULATED		
16	R4153802	1	· CLAMP, CABLE - INSULATED, 1/2"		
17	R4018725	4	· CABLE TIE, 4" - BENT TIP/BLACK		
18	R4268632	1	· LAMP ASSEMBLY, FLOOD - LED, 24V		3/31/11
	R4268402	1	· · LIGHT UNIT, LED - FLOOD		3/31/11
	R4270260	1	· · PLUG, DEUTSCH KIT		3/31/11
	R4223104	1	· · FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		3/31/11
19	R4264160	1	· LABEL, LIGHT MOUNT POLES		
20	R4259249	2	· MOUNTING BRACKET		
21	R0506807	2	· LOCKWASHER, 1/4" - EXTERNAL TOOTH		
22	R0417597	2	· BOLT, 1/4"-20 X 1/2"		
			NOTE:		
	R4259951	REF	· FRONT LIGHT POLE ASSEMBLY - RIGHT SIDE (PAGE 5.39-5.39B)		
		REF	DRAWING, FRONT LIGHT POLE ASSEMBLY - LEFT SIDE (R425994705)		3/31/11

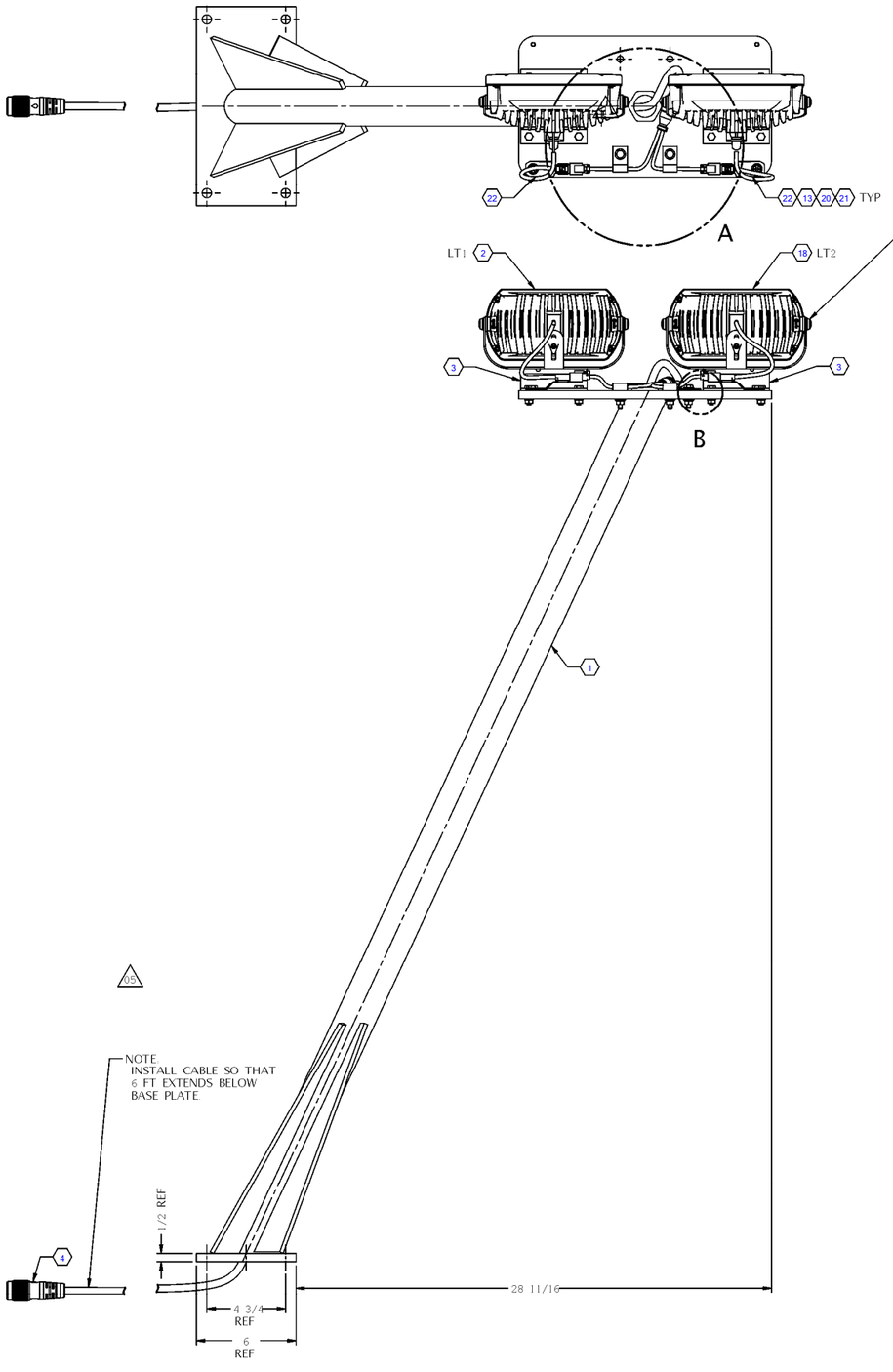
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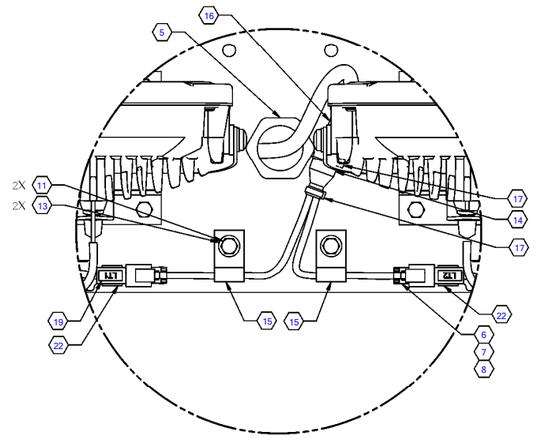
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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FRONT LIGHT POLE ASSEMBLY

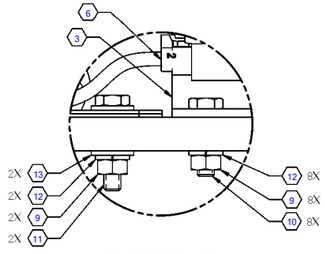




DETAIL A
1:2



WIRING SCHEMATIC



DETAIL B
1:1

ITEM	PART NO	QTY	DESCRIPTION
22	4259249	2	METAL CLIP/MOUNTING BRACKET
21	0506807	2	WASHER LOCK EXT .256 .51 .03
20	0417597	2	BOLT HEX .250 .500 NC G8 FT
19	4264160	1	LABEL LIGHT MNT POLES
18	4268632	1	24V LED WORKLAMP-WIDE FLOOD W PLUG
17	4018725	4	CABLE TIE 4" BENT TIP/BLK
16	4153802	1	CABLE CLAMP INS 1/2
15	4153801	2	CLAMP CABLE INSL .38 .531
14	4217725	1	END SLEEVE ESN16
13	4010923	8	WASHER FLAT .250 .63 .08
12	0213584	11	WASHER LOCK SPR .25 .49 .06
11	4009612	3	BOLT HX .250 1.250 NC G8
10	0814157	8	BOLT HX .250 1.000 NC G8
9	4012935	11	NUT HEX .250 NC G8 PL
8	4255413	2	WEDGE W2S DEUTSCH
7	4185764	4	SOCKET CONTACT SIZE 16
6	4255414	2	PLUG DT06-2S DEUTSCH
5	4016302	1	CHASE NIPPLE 1-1/4 -7 NC U/INS
4	4262045	1	CABLE 12 PIN - OPEN 6M
3	4056629	2	MOUNT VIBRO INSULATOR 9/16 HOLE
2	4270214	1	24V LED WORK LAMP-FLOOD W PLUG
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° / 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
425-8782

	DATE
DWN	
CHK	
ENGR	
PROD ENGR	
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

ASSY LIGHT MNT POLE RH

DATA: D | DO NOT SCALE | DWG NO: 4259951 | REV: 05

SCALE 1/4 | EST WT 65.9 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.	Part Name	Sugg. Qty.	Rev Date
	R4259951		FRONT LIGHT POLE ASSEMBLY - RIGHT SIDE		3/31/11
1	R4259948	1	· POLE STRUCTURE, FRONT LIGHT		3/31/11
2	R4270214	1	· LAMP ASSEMBLY, FLOOD - LED, 24V		3/31/11
	R4270213	1	· · LIGHT UNIT, FLOOD - LED, 24V		3/31/11
	R4270260	1	· · PLUG, DEUTSCH KIT		3/31/11
	R4223104	1	· · FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		3/31/11
3	R4056629	2	· MOUNT, VIBRATION INSULATOR		
4	R4262045	1	· CABLE, 12 PIN		
5	R4016302	1	· NIPPLE, 1-1/4"-7		
6	R4255414	2	· PLUG		
7	R4185764	4	· SOCKET, CONTACT - 16		
8	R4255413	2	· WEDGE		
9	R4012935	11	· NUT, 1/4"-20		
10	R0814157	8	· BOLT, 1/4"-20 X 1"		
11	R4009612	3	· BOLT, 1/4"-20 X 1-1/4"		
12	R0213584	11	· LOCKWASHER, 1/4"		
13	R4010923	8	· FLATWASHER, 1/4"		
14	R4217725	1	· SLEEVE, END		
15	R4153801	2	· CLAMP, CABLE - INSULATED		
16	R4153802	1	· CLAMP, CABLE - INSULATED, 1/2"		
17	R4018725	4	· CABLE TIE, 4" - BENT TIP/BLACK		
18	R4268632	1	· LAMP ASSEMBLY, FLOOD - LED, 24V		3/31/11
	R4268402	1	· · LIGHT UNIT, LED - FLOOD		3/31/11
	R4270260	1	· · PLUG, DEUTSCH KIT		3/31/11
	R4223104	1	· · FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		3/31/11
19	R4264160	1	· LABEL, LIGHT MOUNT POLES		
20	R0417597	2	· BOLT, 1/4"-20 X 1/2"		
21	R0506807	2	· LOCKWASHER, 1/4" - EXTERNAL TOOTH		
22	R4259249	2	· MOUNTING BRACKET		
			NOTE:		
	R4259947	REF	· FRONT LIGHT POLE ASSEMBLY - LEFT SIDE (PAGE 5.39-5.39B)		
		REF	DRAWING, FRONT LIGHT POLE ASSEMBLY - RIGHT SIDE (R425995105)		3/31/11

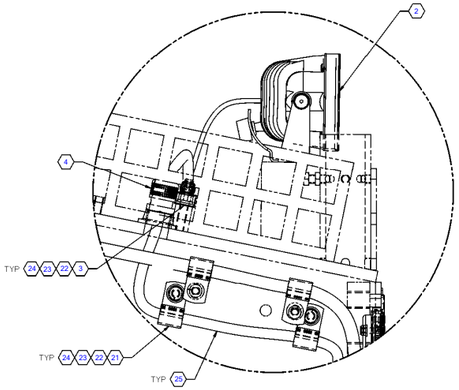
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

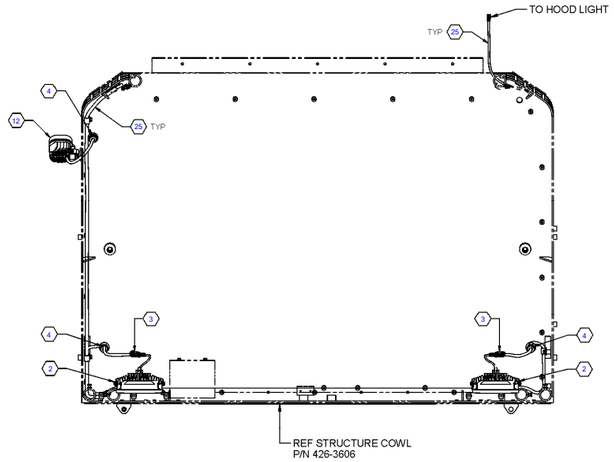
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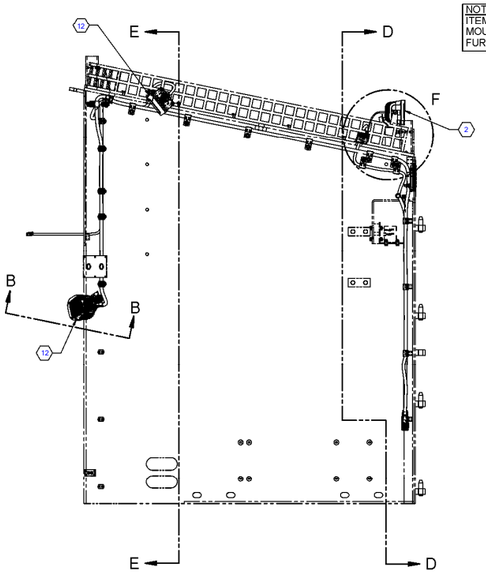
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REAR COWL LIGHTS GROUP

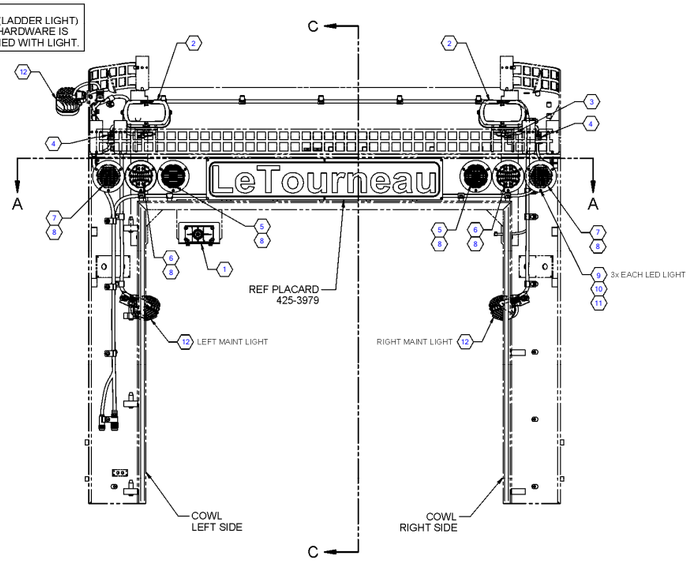


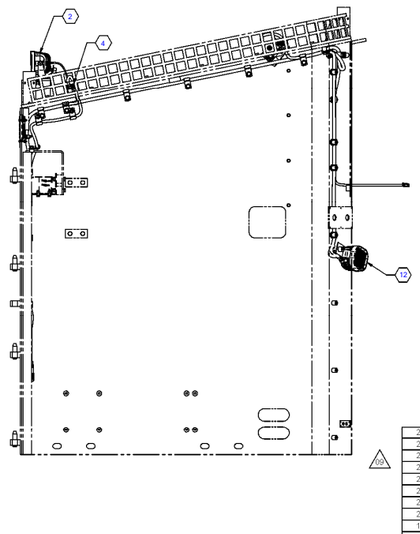
DETAIL F
1:2

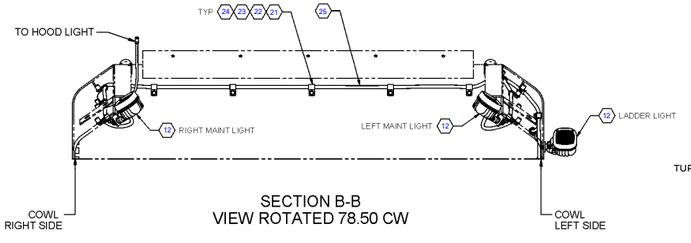




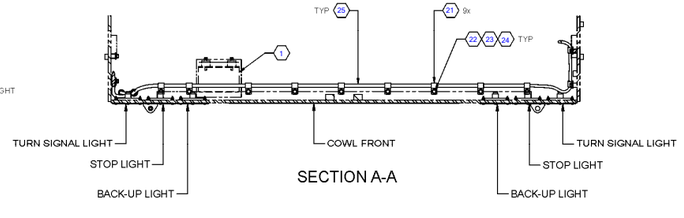
NOTE:
ITEM-12 (LADDER LIGHT) MOUNT HARDWARE IS FURNISHED WITH LIGHT.







SECTION B-B
VIEW ROTATED 78.50 CW



SECTION A-A

ITEM	PART NO.	QTY.	DESCRIPTION
27	4153805	1	CABLE CLAMP INSL 1.00 .531
26	4018725	57	CABLE TIE 4" BENT T18/BLK
25	4286036	1	ASSY HARNESS REAR COWL G2 LOADER
24	0808221	37	WASHER FLAT .375 .81 .08
23	0753123	37	WASHER LOCK SPR .375 .68 .09
22	0788159	37	BOLT HX .375 .625 NC G8 FT
21	4153804	35	CLAMP CABLE INSL .75 .531
20	0810991	2	WASHER FLAT .531 1.062 .121
19	0801181	2	WASHER LOCK SPR .500 .873 .125
18	0801180	2	BOLT HX .500 1.000 NC G8 FT
17	4148460	2	LIGHT MOUNT
16	0985113	2	NUT LOCK NYL INS .375 NC
15	0233042	6	WASHER FLAT .375 1.00 .10
14	0829683	2	BOLT HX .375 1.750 NC G8
13	4164792	5	RUBBER BUSHING Ø .937 X .50
12	4258790	3	LAMP WORK LED 9-32V
11	4020576	18	NUT LOCK NYL INS #10 NF
10	0810880	18	WASHER FLAT .219 .50 .07
9	0988149	18	MSCR #10 1.250 NF PH
8	4245976	6	LED FLANGE COVER 4" SS
7	4253924	2	LED TURN SIGNAL LIGHT YELLOW
6	4245975	2	LED STOP/TURN/TAIL LIGHT RED
5	4245974	2	LED BACK-UP LIGHT WHITE
4	4032348	3	CABLE CONNECTOR .75 (.500 .625) WT
3	4259249	2	METAL CLIP/MOUNTING BRACKET
2	4268632	2	24V LED WORK LAMP-WIDE FLOOD W PLUG
1	4286064	1	KIT,BACK-UP ALARM

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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: 425-8783

DWN	flovett	3-20-06
CHK	RWD	3-24-06
ENGR		
PROD ENGR	BS	3-24-06
PROJ APPROVAL		
MAT'L		

JOYGLOBAL

GP COWL LIGHTS L1150 G2

SIZE E | DO NOT SCALE | DWG NO. 4258780 | REV 09

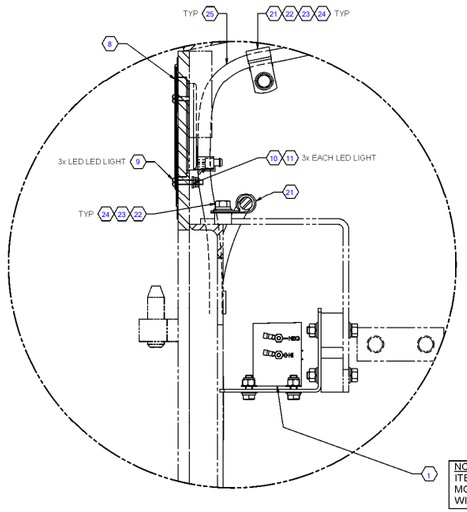
SCALE 1:6 | WEIGHT 2289.6 lbm | SHEET 1 OF 4

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REAR COWL LIGHTS GROUP

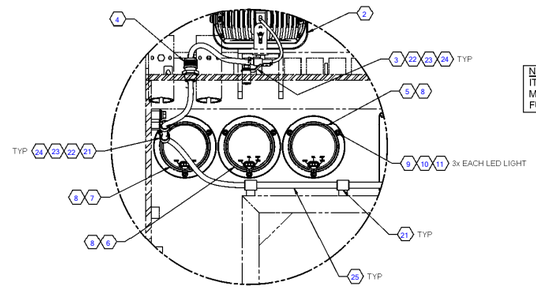
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REAR COWL LIGHTS GROUP



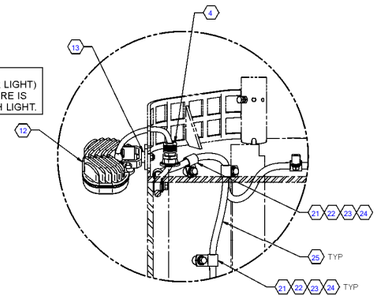
DETAIL G
1:2

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

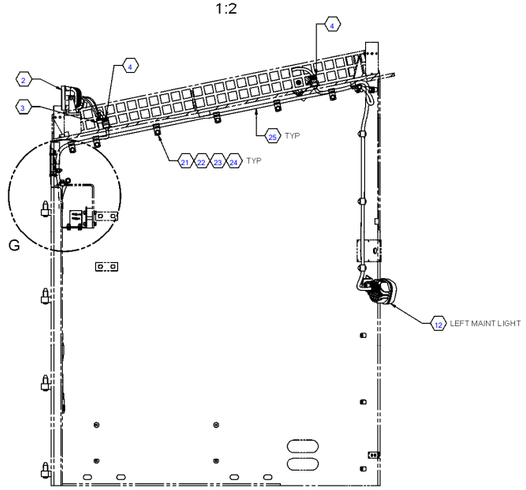


DETAIL H
1:4

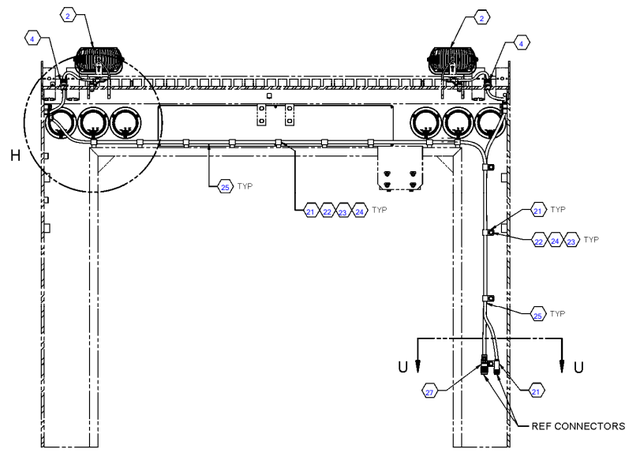
NOTE:
ITEM-12 (LADDER LIGHT)
MOUNT HARDWARE IS
FURNISHED WITH LIGHT.



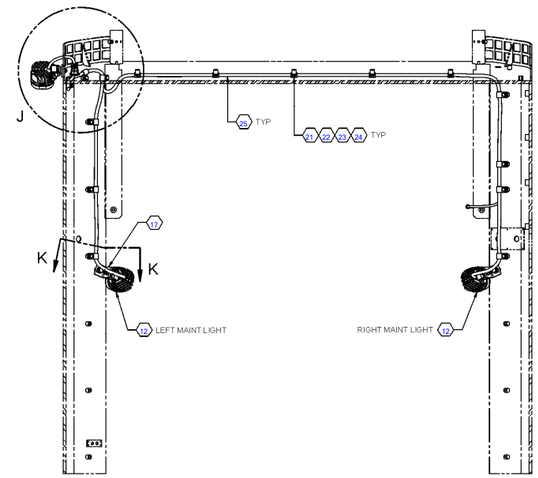
DETAIL J
1:4



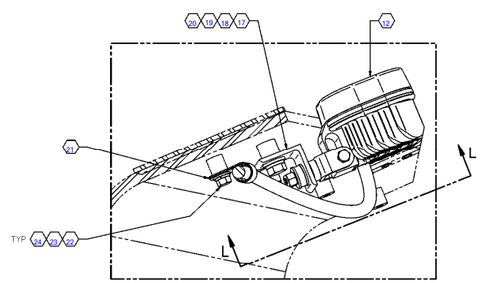
SECTION C-C



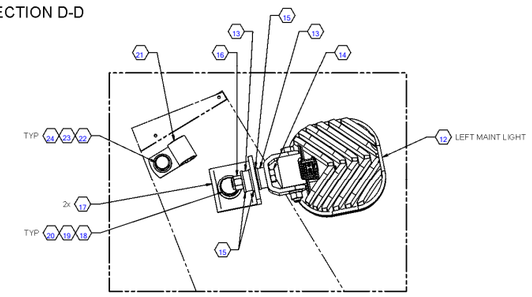
SECTION D-D



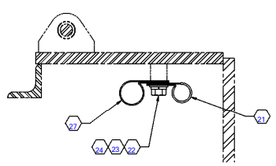
SECTION E-E



SECTION K-K
1:2



VIEW L-L
(MOUNTING TYP FOR LEFT & RIGHT MAINT LIGHTS)
1:2



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

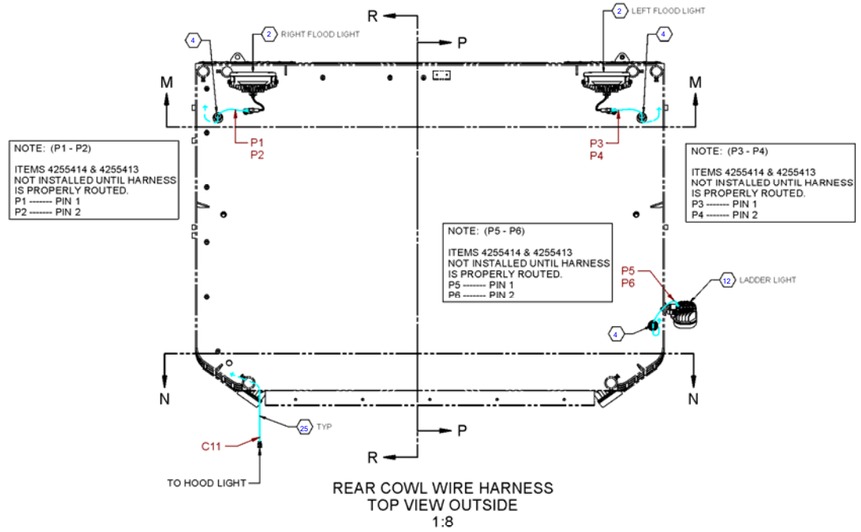
GP COWL LIGHTS L1150 G2		SIZE E	DO NOT SCALE	DWG NO. 4258780	REV 09
Drawn Sinnett					
Issued 3-20-08		SCALE 1/6	WEIGHT 2289.6 lbm	SHEET 2 OF 4	

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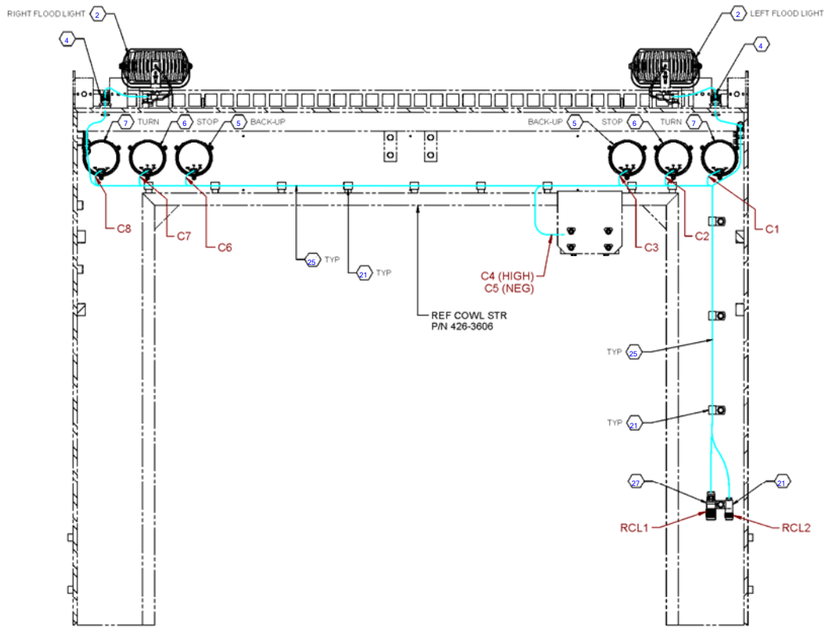
REAR COWL LIGHTS GROUP

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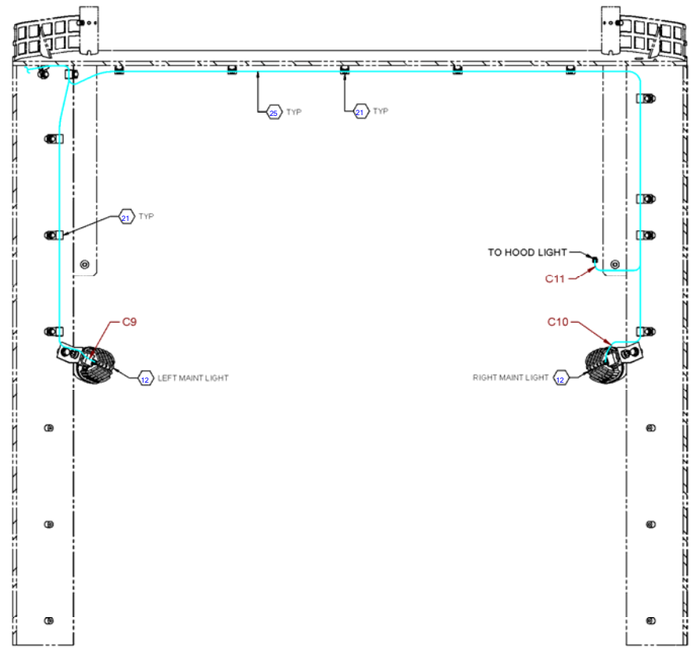
REAR COWL LIGHTS GROUP



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

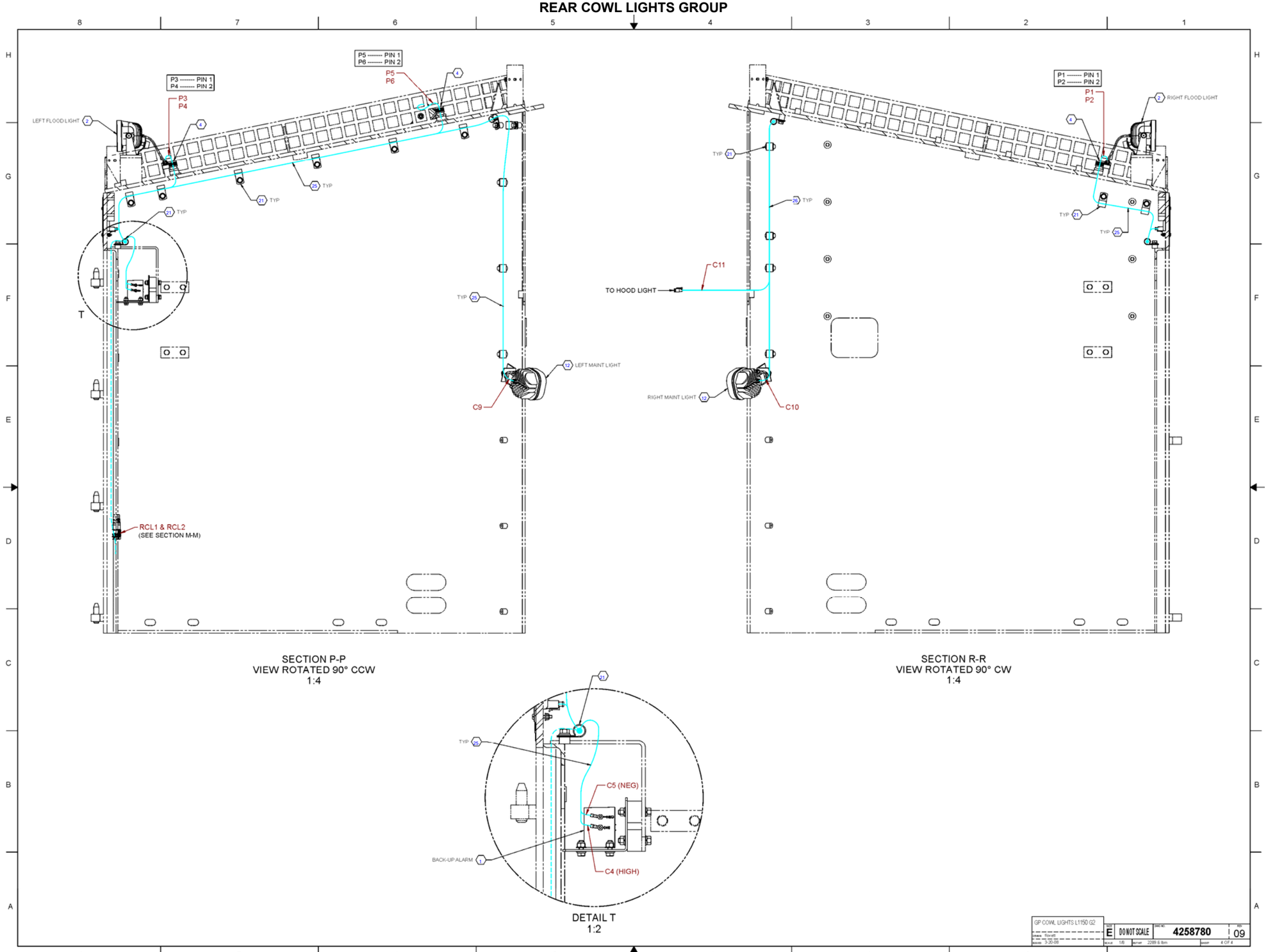
GP COWL LIGHTS L1150 G2
E DO NOT SCALE 4258780 09
Issue 1/0 Server 2289 6 8bit Sheet 3 OF 4

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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 L1150 G2 | E | DO NOT SCALE | 4258780 | 09

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REAR COWL LIGHTS GROUP

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4258780		REAR COWL LIGHTS GROUP		5/12/17
1	R4286064	1	· BACK-UP ALARM GROUP		5/12/17
	R4285018	1	· · ALARM, REVERSE - HORN		5/12/17
	R4032277	4	· · INSULATOR, VIBRATION		
2	R4268632	2	· LAMP ASSEMBLY, FLOOD - LED, 24V		3/31/11
	R4268402	2	· · LIGHT UNIT, LED - FLOOD		3/31/11
	R4270260	2	· · PLUG, DEUTSCH KIT		3/31/11
	R4223104	2	· · FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		3/31/11
3	R4259249	2	· MOUNTING BRACKET		
4	R4032348	3	· CONNECTOR, CABLE - 3/4"		
5	R4245974	2	· LIGHT ASSEMBLY, LED - WHITE		
6	R4245975	2	· LIGHT ASSEMBLY, LED - RED		
7	R4253924	2	· LIGHT ASSEMBLY, LED - YELLOW		
8	R4245976	6	· LED FLANGE COVER, 4" I.D. - S.S.		
9	R0988149	18	· SCREW, #10-32 X 1-1/4" - P.H.		
10	R0810880	18	· FLATWASHER, #10		
11	R4020576	18	· LOCKNUT, #10-32 - NYLON		
12	R4258790	3	· LAMP ASSEMBLY, WORK - LED, 9-32V		
13	R4164792	5	· BUSHING, RUBBER		
14	R0829683	2	· BOLT, 3/8"-16 X 1-3/4"		
15	R0233042	6	· FLATWASHER, 3/8"		
16	R0985113	2	· LOCKNUT, 3/8"-16 - NYLON		
17	R4148460	2	· MOUNT, LAMP ASSEMBLY		
18	R0801180	2	· BOLT, 1/2"-13 X 1"		
19	R0801181	2	· LOCKWASHER, 1/2"		
20	R0810991	2	· FLATWASHER, 1/2" X 1" X 1/8"		
21	R4153804	35	· CLAMP, CABLE - INSULATED, 3/4"		
22	R0788159	37	· BOLT, 3/8"-16 X 5/8"		
23	R0753123	37	· LOCKWASHER, 3/8"		
24	R0808221	37	· FLATWASHER, 3/8"		
25	R4286036	1	· HARNESS ASSEMBLY, REAR COWL		
26	R4018725	57	· CABLE TIE, 4" - BENT TIP/BLACK		
27	R4153805	1	· CLAMP, CABLE - INSULATED, 1"		
			DRAWING, REAR COWL LIGHTS GROUP (R425878009)		5/12/17

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

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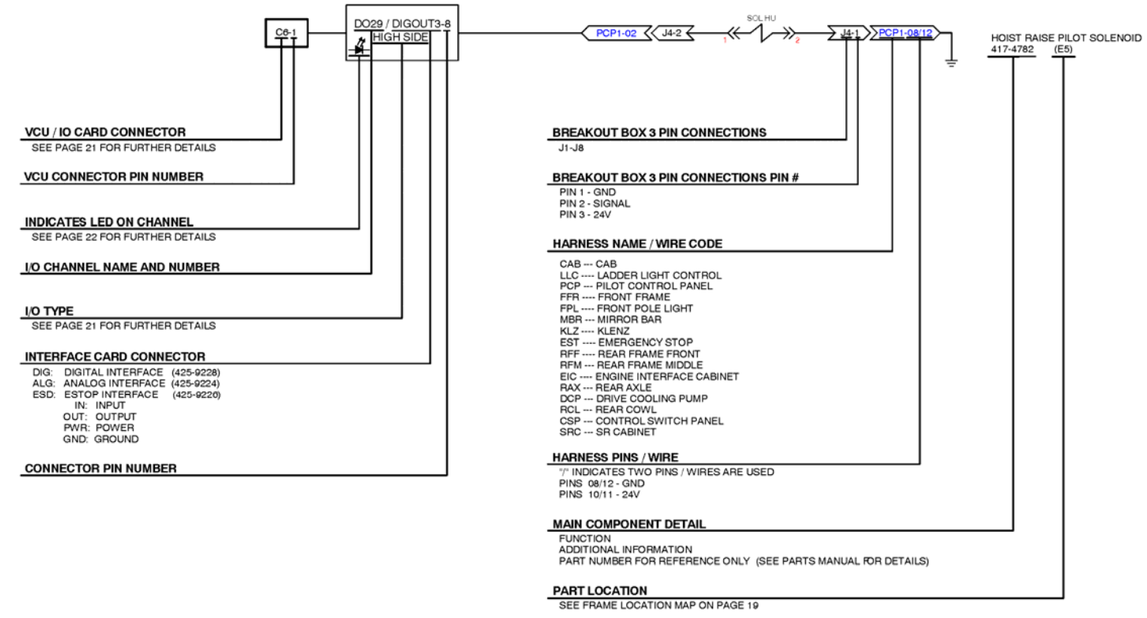
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REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	CHK	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
C6/B1	01	PCP1-02 WAS WHT/BLK. C6-1 WAS C6-BAT D/G CARD	NL12-1309	8-27	FL	BS	BS

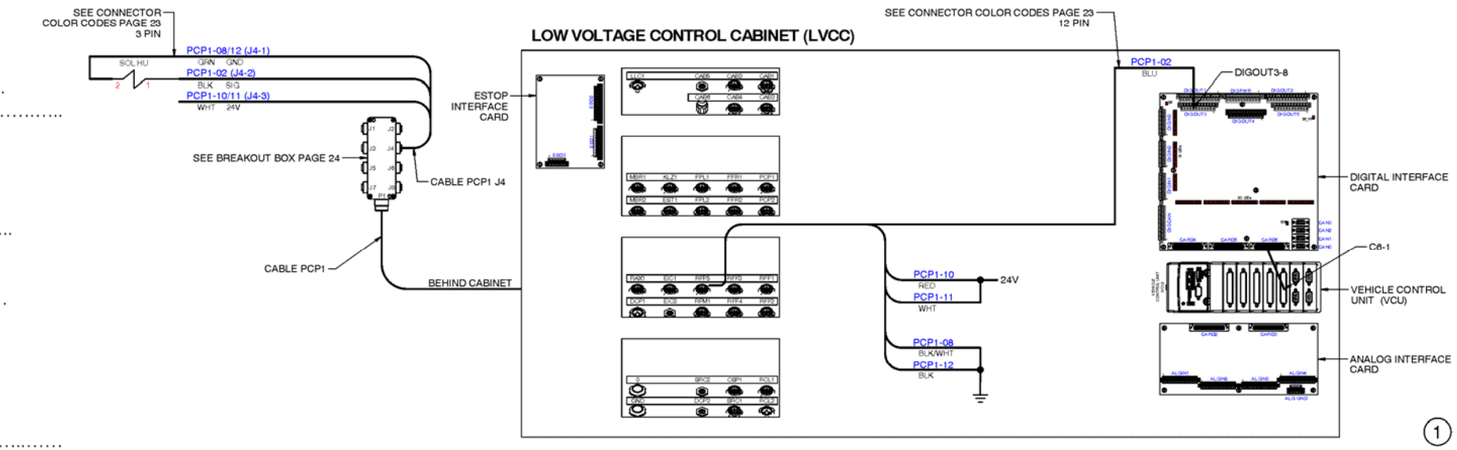
LEGEND



NOTES:

1) **COLOR CODE**
   - BLUE: WIRE CODE
   - RED: CONNECTION PIN
   - MAGENTA: MODEL SPECIFIC
2) **CROSS REFERENCE**
   (01239)
   SHEET NO. — LINE NO. — COLUMN
3) **GROUND SYMBOLS**
   - GROUND IN LVCC
   - FRAME GROUND
4) **SEE NOTE(S)** AT BOTTOM OF PAGE
5) **POWER FLOWS LEFT TO RIGHT**
   - OUTPUTS ON LEFT
   - INPUTS ON RIGHT
6) **MACHINE STATE:**
   - BATTERIES ISOLATED
   - STARTER ISOLATED
   - E-STOP NOT PRESSED
   - PARK BRAKES ENGAGED
   - ALL LIGHTS OFF
   - LADDER DOWN
   - KEYSWITCHES OFF
   - KLENZ ENABLE
   - FLUIDS FULL
   - FUSES NOT BLOWN
   - HV CABINET DOOR CLOSED

EXAMPLE CIRCUIT



OLD TEMPLATE (WITH OLD E-STOP)

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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°; FRAC TIONS ±1/16; .XX DECIMAL ±.03; .XXX DECIMAL ±.015
- MACHINED CORNERS .004 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: -

DWN	flovatt	5-27-2011
CHK	BAS	6-02-2011
ENGR		
PROJ ENGR	BS	6-02-2010
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ELECTRIC SCHEMATIC LINCS II

SIZE E | DO NOT SCALE | DWG NO 4266282 | REV 01

SCALE NONE | SHT WT | SHEET 1 OF 24

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ELECTRICAL SCHEMATIC

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ELECTRICAL SCHEMATIC

24V ELECTRICS

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	DSN	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
	01	KEY SWITCH P/N WAS 423-2229	NL12-1909	8-27	FL	BS	BS

BATTERY

BATT 1 BATT 2 BATT 3 BATT 4 SW BI LT BI SW SI LT SI FU 201 150A FU 202 150A S-GND (13144) (13244) (14194) (14294) 2S (13143) (13243) (14193) (14293) ALT (13157) (13257) (14157) (14257) 2 (11255) (13116) (13216) (14120) (14240) (17114)

BATTERY CHARGING SOCKET 416-3955 (D1)
BATTERY 1 & 2
BATTERY 3 & 4
BATTERY ISOLATION SWITCH 426-7269 (D1)
FU 201 425-9237 (E2) LT BI 424-0049 (D1)
STARTER ISOLATION SWITCH 426-7268 (D1)
LT SI 424-0048 (D1)
FU 202 425-9237 (E2)

EMERGENCY STOP

ESTOP INTFC CARD (425-9226)

FU 01 10A TB 2 12K

ESD3-1 24V
ESD3-2 24V
ESD1-1 ESTOP1 — ESD2-1 ESTOP1-READ — DI23 / DIGIN2-11 STANDARD — C4-25
ESD1-2 ESTOP2 — ESD2-2 ESTOP2-READ — DI24 / DIGIN2-12 STANDARD — C4-27
ESD1-3 ESTOP3 — ESD2-3 ESTOP3-READ — DI25 / DIGIN3-1 STANDARD — C4-30
ESD1-4 ESTOP4 — ESD2-4 ESTOP4-READ — DI27 / DIGIN3-3 STANDARD — C4-39
ESD1-5 ESTOP5 — ESD2-5 ESTOP5-READ — DI26 / DIGIN3-2 STANDARD — C4-31
ESD1-6 ESTOP6 — ESD2-6 ESTOP6-READ
ESD1-7 ESTOP7 — ESD2-7 ESTOP7-READ
ESD1-8 ESTOP8 — ESD2-8 ESTOP8-READ
ESD1-9 FIRE SYS — ESD2-9 FIRE SYS-READ — DI31 / DIGIN3-7 STANDARD — C4-36
ESD3-5 ESTOP RLY — ESD2-10 ESTOP RLY-READ
ESD3-6 HYD RLY — ESD2-11 HYD RLY-READ
ESD1-10 GND
ESD2-12 GND
ESD3-3 GND
ESD3-4 GND

SW ES1 SW ES2 SW ES3 SW ES4 SW ES5 PS FS CR ES (02241) CR HT (02158) FU 10 10A TB 2 12K (02211) CR HT (02148) SOL TD (10221)

CAB E-STOP SWITCH 426-5219 (B5)
HV CABINET E-STOP SWITCH 425-7691 (D4)
HYD RESERVOIR E-STOP SWITCH 425-7691 (F4)
RIGHT REAR E-STOP SWITCH 425-7691 (E1)
LEFT REAR E-STOP SWITCH 425-7691 (D1)
E-STOP RELAY 426-0950 (D4)
FIRE SYSTEM STATUS 415-5057 (D4)
HYD TANK VENT VALVE RELAY 426-0950 (D4)
HYD TANK DUMP 426-1177 (E4)

KEYSWITCH

C5-7 DO3 / DIGOUT1-10 HIGH SIDE — IGNITION KEEP ALIVE OUTPUT
CR KS (02223) — KEYSWITCH RELAY 426-0950 (D4)
(04203) CAB2-01 SW KS CAB2-04 CAB2-05 — KEYSWITCH 427-0390 (B4)
DI7 / DIGIN1-7 STANDARD — C4-7 — KEYSWITCH IGNITION
DI6 / DIGIN1-6 STANDARD — C4-6 — KEYSWITCH CRANK SWITCH
(02160) (03101) FU 02 10A TB 2 12K CR KA (02220) — DO2 / DIGOUT1-11 LOW SIDE — C5-6 — VCU / HMI KEEP ALIVE 426-0950 (D4)
VEHICLE CONTROL UNIT (VCU) (03148) — VEHICLE CONTROL UNIT (VCU) (D4)
CR KA (02214) CR HD (03103) — HMI DISPLAY POWER RELAY 426-0950 (D4)
DIODE - D9 413-5968 (D4)
CR KS (02205) CR MP (02226) — MASTER POWER RELAY 426-0950 (D4)
CR MP (02223) CR H1 (06116) — KEYSWITCH POWER RELAY 1 411-9992 (D4)
CR K2 (05203) — KEYSWITCH POWER RELAY 2 411-9992 (D4)
CR K3 (05228) — KEYSWITCH POWER RELAY 3 411-9992 (D4)
CR K5 (05247) — KEYSWITCH POWER RELAY 5 411-9992 (D4)
CR K4 (06215) (06217) — DO24 / DIGOUT2-1 LOW SIDE — C5-33 — DRIVE SWITCH POWER OUTPUT KEYSWITCH POWER RELAY 4 426-0950 (D4)
(05123) — 24V CAN
CR ES (02144) CR DF (05107) — DO23 / DIGOUT2-3 LOW SIDE — C5-32 — DIGITAL OUTPUT POWER 411-9992 (D4)
(05221) — 24V GENERATOR CONVERTERS

PARK BRAKE

C5-14 DO8 / DIGOUT1-5 HIGH SIDE — CR PI (02252) — PARK BRAKE INTERLOCK OUTPUT 426-0950 (D4)
(04209) CAB2-01 SW PB CAB2-02 — CR PI (02243) — CR PB (10225) — PARK BRAKE SWITCH 426-5130 (B4) PARK BRAKE RELAY DRIVE 426-0950 (D4)
DI8 / DIGIN1-8 STANDARD — C4-8 — PARK BRAKE SWITCH

ELECTRIC SCHEMATIC LINCS II — SIZE E — DO NOT SCALE — DRG NO 4266282 — REV 01 — SHEET 2 OF 24

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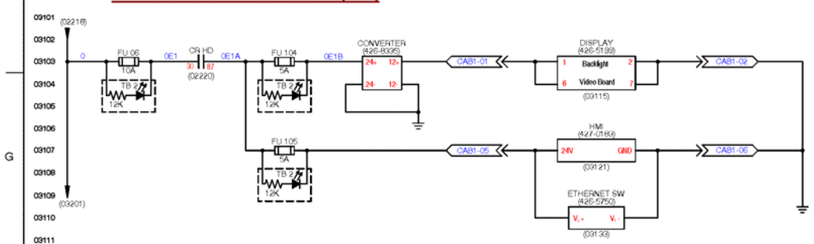
ELECTRICAL SCHEMATIC

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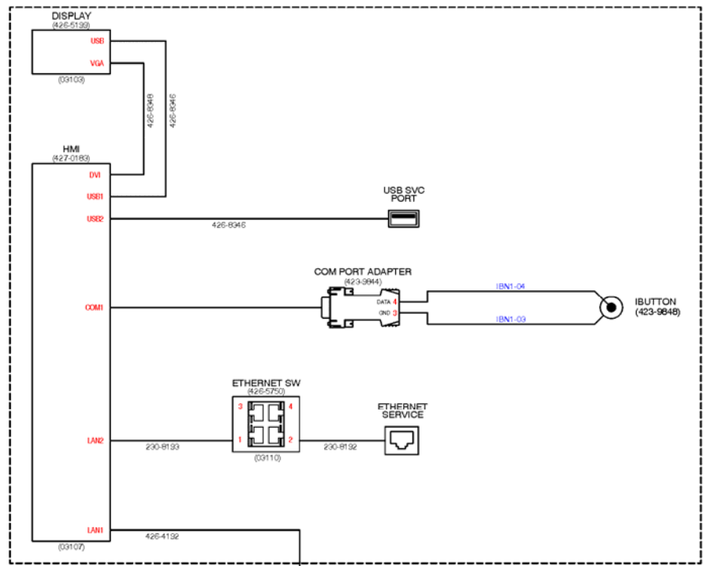
24V ELECTRICS

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	DR	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
B1	01	ADD RESISTOR PART NO.	NL12-1909	8-27	FL	BS	BS

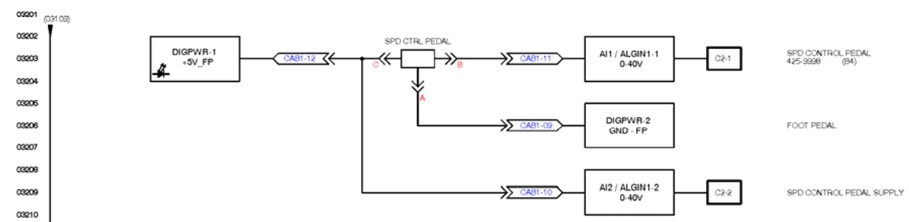
HUMAN MACHINE INTERFACE (HMI)



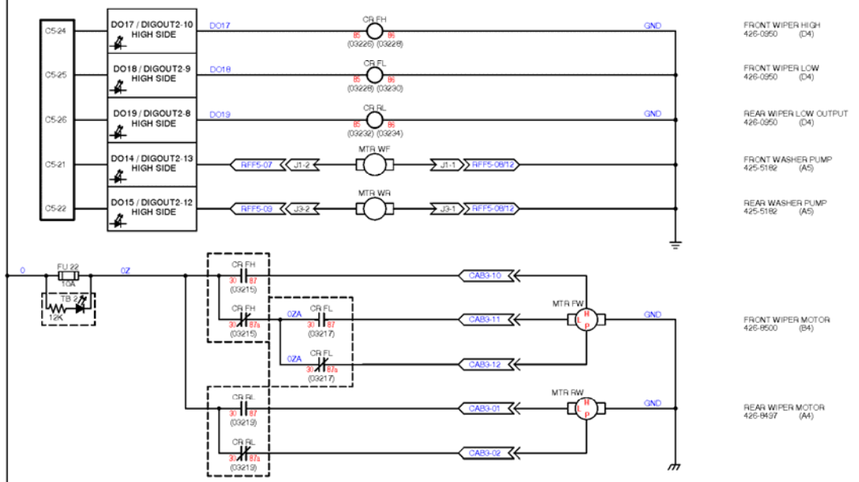
CAB



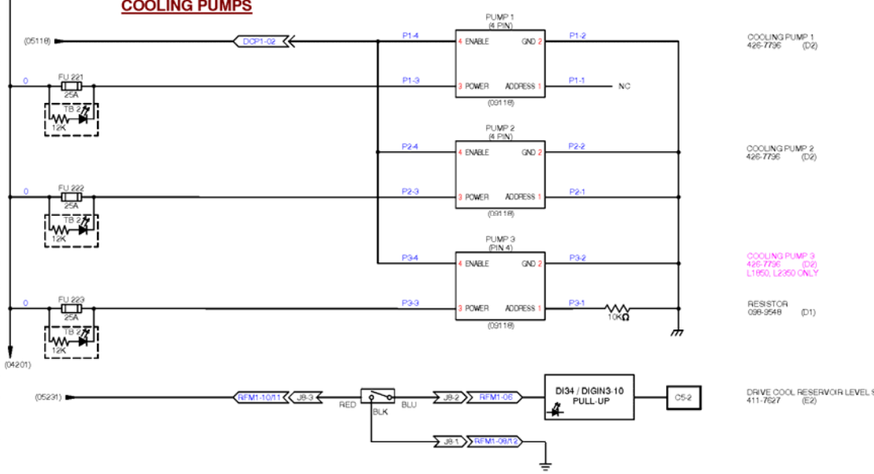
SPEED CONTROL PEDAL



WIPERS



COOLING PUMPS



ELECTRIC SCHEMATIC LINCS II — SIZE E — DO NOT SCALE — DRAWING NO. 4266282 — REV 01 — SHEET 3 OF 24

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24V ELECTRICS

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	DWN	CHK	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
	01	NO CHANGE THIS SHEET	NL12-1909	8-27	FL	BS	BS

LIGHTS & ALARMS

DO4 / DIGOUT1-9 HIGH SIDE — CR L1A (04234), CR L1B (04236) — POLE WORK LIGHTS LEFT 426-0950 (D4)

DO5 / DIGOUT1-8 HIGH SIDE — CR L2 (04242), CR L3 (04248) — POLE WORK LIGHTS RIGHT 426-0950 (D4); CAB LIGHT BAR LIGHTS LEFT 426-0950 (D4)

DO7 / DIGOUT1-6 HIGH SIDE — CR L4 (04255) — CAB LIGHT BAR LIGHTS RIGHT 426-0950 (D4); REAR COWL LIGHTS 426-0950 (D4)

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

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

DO11 / DIGOUT1-2 HIGH SIDE — CAB2-03 — ALM AU — CAB AUDIBLE ALARM 409-4949 (B4)

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

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

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

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

DO58 / DIGOUT5-3 HIGH SIDE — DO58 — RCL1-07 — LT BU1, LT BU2 — RCL1-05/06 — (17156) — ALM BU — BACKUP LIGHT LEFT 424-5974 (D1); BACKUP LIGHT RIGHT 424-5974 (E1); BACKUP ALARM 405-6055 (D1)

DO35 / DIGOUT3-2 HIGH SIDE — MBR2-09 — MBR2-10 — BEACON (OPT) (B4)

LIGHTS & ALARMS (CONT.)

(03253) — FU 25 10A — CAB2-01 — (02208) (02252)

CAB3-09 — LT CA1 — SWRTN — SW CA1 — GND — CAB INTERIOR LIGHTS 424-5974 (A5), SW CA1 427-0929 (A4)

LT CA2 — SW CA2 — CAB INTERIOR LIGHTS 424-5974 (A4), SW CA2 426-8957 (A5)

SW CA3 — GND — SW CA3 426-8957 (B4)

FU 13 5A — CSP1-09 — SW LL1 — CSP1-08 — GJA — LLC1-01 — SW LL2 — LLC1-02 — TB1 CR LL (04217) — GND — LADDER LIGHT CONTROL RELAY 426-0950 (D4), SW LL1 405-9189 (D1), SW LL2 425-3960 (A5)

CSP1-13 — GJB — LLC1-03

SW ML — CSP1-07 — TB1 CR ML (04221) — GND — MAINTENANCE LIGHT RELAY 426-0950 (D4), SW ML 403-1978 (D1)

FU 14 10A — 0K — CR LL (04212) — 0KA — MBR1-11 — LT LL1 — MBR1-12 — LADDER LIGHT FRONT 425-8730 (A5)

RCL2-02 — LT LL2 — RCL2-01 — LADDER LIGHT REAR 425-8730 (D1)

FU 15 10A — 0L — CR ML (04215) — 0LA — FU 109 5A — 0LB — FFR1-09 — J3-2 — LT MT1 — J3-1 — FFR1-09/12 — MAINTENANCE LIGHT LEFT FRONT 425-8730 (D6)

FFR2-01 — J2-2 — LT MT2 — J2-1 — FFR2-09/12 — MAINTENANCE LIGHT RIGHT FRONT 425-8730 (E5)

0LA — FU 110 5A — 0LC — RFM1-09 — J3-2 — LT MT3 — J3-1 — RFM1-09/12 — MAINTENANCE LIGHT MIDDLE LEFT 425-8730 (D4)

RFF2-02 — J4-2 — LT MT4 — J4-1 — RFF2-09/12 — MAINTENANCE LIGHT MIDDLE RIGHT 425-8730 (D4)

0LA — FU 111 5A — RCL1-08 — LT MT5 — RCL1-09 — MAINTENANCE LIGHT LEFT REAR 425-8730 (D2)

LT MT6 — LT MT7 — MAINTENANCE LIGHT RIGHT REAR 425-8730 (E2); MAINTENANCE LIGHT RIGHT HOOD 425-8730 (E2)

FU 16 15A — 0M — CR L1A (04103) — 0MA — FPL1-01 — LT FP1 — FPL1-02 — POLE WORK LT (FLOOD) LEFT 427-0214 (C5)

FPL1-03 — LT FP2 — FPL1-04 — POLE WORK LT (WIDE FLOOD) LEFT 426-8632 (C5)

FU 17 15A — 0N — CR L1B (04105) — 0NA — FPL2-01 — LT FP3 — FPL2-02 — POLE WORK LT (FLOOD) RIGHT 427-0214 (F5)

FPL2-03 — LT FP4 — FPL2-04 — POLE WORK LT (WIDE FLOOD) RIGHT 426-8632 (F5)

FU 18 25A — 0P — CR L2 (04107) — 0PA — MBR1-03 — LT MB1 — MBR1-04 — CAB LIGHT BAR LT (WIDE FLOOD) LEFT 426-8632 (B5)

MBR1-05 — LT MB2 — MBR1-06 — CAB LIGHT BAR LT (FLOOD) LEFT 427-0214 (B5)

MBR1-07 — LT MB3 — MBR1-08 — CAB LIGHT BAR LT (TRAP) LEFT 426-8631 (B5)

FU 19 25A — 0R — CR L3 (04109) — 0RA — MBR2-03 — LT MB4 — MBR2-04 — CAB LIGHT BAR LT (WIDE FLOOD) RIGHT 426-8632 (B4)

MBR2-05 — LT MB5 — MBR2-06 — CAB LIGHT BAR LT (FLOOD) RIGHT 427-0214 (B4)

MBR2-07 — LT MB6 — MBR2-08 — CAB LIGHT BAR LT (TRAP) RIGHT 426-8631 (B4)

FU 20 15A — 0S — CR L4 (04111) — 0SA — RCL1-11 — LT RC1 — RCL1-12 — REAR COWL LT (WIDE FLOOD) LEFT 426-8632 (D1)

RCL1-01 — LT RC2 — RCL1-02 — REAR COWL LT (WIDE FLOOD) RIGHT 426-8632 (E1)

(05101)

ELECTRIC SCHEMATIC LINCS II — SIZE E — DO NOT SCALE — DWG NO 4266282 — REV 01 — Drawn: Tickell — Date: 5-27-2011 — Sheet 1/1 — Sheet 4 OF 24

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ELECTRICAL SCHEMATIC

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24V ELECTRICS

ZONE	REV	DESCRIPTION	ECN	DATE	CHK	DR	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
	01	NO CHANGE THIS SHEET	NL12-1909	8-27	FL	BS	BS

POWER DISTRIBUTION

(04258)

BATTERY — AI4 / ALGIN1-4 0-40V — C24

FU 07 25A — CR DP (02241) — 0FA

- DIGPWR-8 24V
- DIGPWR-9 24V
- DIGPWR-10 24V
- DIGPWR-11 24V
- DIGPWR-12 24V
- 0FA — DOP1-02 → (03238) COOLING PUMPS ENABLE

FU 08 25A

FU 09 10A — 0G

- DIGPWR-6 24V_BATT
- (02238) 0BD — DIGPWR-7 24V CAN
- DIGPWR-3 GND — GND
- DIGPWR-4 GND
- DIGPWR-5 GND — GND

- ALG GND-1 GND — GND
- ALG GND-2 GND — GND

(05201)

POWER DISTRIBUTION (CONT.)

(05126)

FU 23 30A — CR K2 (02228) — 0V

FU 120 10A	0VB	FFR1-10 / FFR1-11	FFR1-10/11	(10126) 10128) (11108)	FRONT FRAME 1 BREAKOUT BOX
FU 121 10A	0VC	FFR2-10 / FFR2-11	FFR2-10/11	(06134) (06136) (11112) (17135)	FRONT FRAME 2 BREAKOUT BOX
FU 122 10A	0VD	POP1-10 / POP1-11	POP1-10/11	(11119)	PILOT CONTROL PANEL 1 BREAKOUT BOX
FU 123 10A	0VE	POP2-10 / POP2-11	POP2-10/11	(11123) (11125) (11127) (11129)	PILOT CONTROL PANEL 2 BREAKOUT BOX
FU 124 10A	0VF	RFF1-10 / RFF1-11	RFF1-10/11	(06130) (10136) (10921) (11103) (11143)	REAR FRAME FRONT 1 BREAKOUT BOX
FU 125 10A	0VG	RFF2-10 / RFF2-11	RFF2-10/11	(10240) (11233) (17103)	REAR FRAME FRONT 2 BREAKOUT BOX
FU 126 10A	0VH	RFF3-10 / RFF3-11	RFF3-10/11	(11131) (11133) (11135) (11137) (11141) (11143) (11145)	REAR FRAME FRONT 3 BREAKOUT BOX
FU 127 10A	0VJ	RFF4-10 / RFF4-11	RFF4-10/11	(06150) (10130) (10132) (11139) (11147) (11157) (11159)	REAR FRAME FRONT 4 BREAKOUT BOX

FU 24 30A — CR K9 (02230) — 0W

FU 128 10A	0WB	RFF5-10 / RFF5-11	RFF5-10/11	(10140)	REAR FRAME FRONT 5 BREAKOUT BOX
FU 129 10A	0WC	RFM1-10 / RFM1-11	RFM1-10/11	(03255) (06152) (06126) (10109) (11151)	REAR FRAME MIDDLE BREAKOUT BOX
FU 130 10A	0WD	RAX1-10 / RAX1-11	RAX1-10/11	(10134) (10136) (11114)	REAR AXLE BREAKOUT BOX
FU 131 10A	0WE	CSP1-03 / CSP1-11		(10103) (11110) (11250)	CONTROL SWITCH PANEL
FU 132 10A	0WF	KLZ1-10 / KLZ1-11		(10124) (10236)	KLENZ
FU 133 10A	0WA	EIC1-11		(13105) (13205) (14105) (14205)	ENGINE INTERFACE CABINET

FU 21 30A — CR K5 (02236) — 0T

	0TA	CAB4-01		(16103)	CLIMATE CONTROL
		CAB4-03		(16105)	
		CAB4-05		(16122)	

(06101)

ELECTRIC SCHEMATIC LINCS II — SIZE E — DO NOT SCALE — DRG NO. 4266282 — REV 01 — SHEET 5 OF 24

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ELECTRICAL SCHEMATIC

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24V ELECTRICS

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS
D3	01	ADD DRIVE SYS SCHEMATIC CHART PART NOS.	NL12-1927	FL	BS	BS

DEALER OPTIONS

- FU 04 25A (TB 2 12K) — 0D — CAB3-03 / CAB3-06 — MTR SS / CHD CONSOLE / DASH — GND — SEAT SUSPENSION; LOCAL OPTIONS OVERHEAD CONSOLE; LOCAL OPTIONS DASH
- FU27 25A (TB 2 12K) — 03 — CONVERTER (627-5213) (6 PIN UNUSED) (4 PIN) — 12V1 — FU 109 15A (TB 2 12K) — 12V2 — CAB1-03 / CAB1-04 / CAB3-05 / CAB3-09 — 12V2 — GND — 12V POWER POINT 410-0796 (B5); 12V POWER POINT 410-0796 (B5); LOCAL OPTIONS OVERHEAD CONSOLE; LOCAL OPTIONS DASH
- FU 05 25A (TB 2 12K) — 0E — CR K1 (92225) — 0EA — CAB3-04 / CAB3-07 — (17150) — LOCAL OPTION OVERHEAD CONSOLE; LOCAL OPTION DASH

(05252) (06210)

POSITION SENSORS

- (05231) RFM1-10/11 J6-3 — XDR FL — J6-2 RFM1-04; J6-1 RFM1-09/12 — AI38 / ALGIN3-6 4-20mA — C3-6 — FUEL LEVEL LOW TO FULL 426-5125 (E2) L950, L1150 ONLY 427-0064 (E2) L1350, L1850, L2350 ONLY
- (05215) RFF1-10/11 J6-3 — XDR SA (BRN / GRN / WHT/YEL) — J6-2 RFF1-04; J6-1 RFF1-09/12 — AI21 / ALGIN2-5 4-20mA — C2-24 — STEER POSITION 0-120° 425-7857 (E4)
- (05206) FFR2-10/11 J1-3 — XDR LA (BRN / GRN / WHT/YEL) — J1-2 FFR2-07; J1-1 FFR2-09/12 — AI13 / ALGIN1-13 4-20mA — C2-25 — LIFT ARM POSITION 0-120° 425-7857 (E5)
- (05206) FFR2-10/11 J3-3 — XDR BA (BRN / GRN / WHT/YEL) — J3-2 FFR2-09; J3-1 FFR2-09/12 — AI14 / ALGIN1-14 4-20mA — C2-16 — BELLCRANK TO LIFT ARM 0-120° 425-7857 (E7)

SPEED SENSORS

- (05224) RFF4-10/11 J7-3 — J7-2 RFF4-05 — DI2 / DIGIN1-2 FREQUENCY — C4-2 — BLOWER 45 PULSES PER ROTATION 426-7540 (D4)
- (05231) RFM1-10/11 J1-3 — J1-2 RFM1-07 — DI3 / DIGIN1-3 FREQUENCY — C4-3 — RADIATOR FAN 60 PULSES PER ROTATION 698-0976 (D1)

DRIVE SYSTEM INTERFACE

- (DRIVE SYSTEM) — SRC1-01 — DI12 / DIGIN1-12 STANDARD — C4-14 — HV CABINET DOOR SWITCH
- (DRIVE SYSTEM) — SRC1-04 — AI3 / ALGIN1-3 0-40V — C2-3 — FRAME IMPEDANCE
- (06121) FU 11 10A (TB 2 12K) — SRC1-05 — (DRIVE SYSTEM) — 24V MOTOR CONVERTERS
- FU 26 10A (TB 2 12K) — 0Y — CR K4 (92295) — SRC1-03 — (DRIVE SYSTEM) — DRIVE SWITCH POWER OUTPUT
- (10201)
- (92243) — 0BB — SRC1-06 — (DRIVE SYSTEM) — 24V GENERATOR CONVERTERS
- (DRIVE SYSTEM) — SRC1-10
- (DRIVE SYSTEM) — SRC1-11
- (DRIVE SYSTEM) — SRC1-12

DRIVE SYSTEM SCHEMATIC	
MODEL	PART NUMBER
L950	426-5101
L1150	426-5101
L1350	427-5300
L1850, L2350	427-5302

DRIVE SYSTEM CAN (09135)

ELECTRIC SCHEMATIC LINCS II			
DRAWN Towell	E	DO NOT SCALE	4266282 01
ISSUED 5-27-2011	SCALE 1/1	SHEET 6 OF 24	

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24V ELECTRICS

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	CHK	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
E6	01	MARK AI44 & AI45 AS RESERVED	NL12-1909	8-27	FL	BS	BS

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	
J4-2 FFR2-02 AI40 / ALGIN3-8 4-20mA	C3-8	UNUSED	
J8-2 POP1-06 AI42 / ALGIN3-10 4-20mA	C3-12	UNUSED	
J4-2 RFF5-02 AI44 / ALGIN3-12 4-20mA	C3-14	RESERVED	
J6-2 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 / ALGIN1-9 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 J9-2		
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	
C5-37 DO28 / DIGOUT3-9 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	
C6-32 DO55 / DIGOUT5-6 HIGH SIDE		UNUSED	
C6-36 DO59 / DIGOUT5-2 HIGH SIDE		UNUSED	
DIGOUT1-12 LOW PWR		UNUSED	
DIGOUT1-14 LOW PWR		UNUSED	
DIGOUT2-2 LOW PWR		UNUSED	
DIGOUT2-4 LOW PWR		UNUSED	

ELECTRIC SCHEMATIC LINCS II — SIZE E — DO NOT SCALE — DWG NO. 4266282 — REV 01 — SHEET 7 OF 24

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REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	DSG	CHK	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
	01	NO CHANGE THIS SHEET	NL12-1909	8-27	FL	BS	BS

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ELECTRIC SCHEMATIC LINCS II	SIZE E	DO NOT SCALE	DWG NO 4266282	REV 01
SHEET 1/1				SHEET 8 OF 24

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CAN

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	APP
	00	RELEASE	NL11-1011	6-02	FL BAS	BS
D4	01	ADD DRIVE SYS SCHEMATIC CHART PART NOS.	NB12-18527	FL	BS	BS

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
C7CAN0-6 — DIGCAN-4 24V CAN — CAB5-03
C7CAN0-9 — +15V — CAB5-02

KEYPAD (426-4118): 1 2 3 4
JOYSTICK LEFT (426-5191): 1 2 3 4 5
JOYSTICK RIGHT (426-5192): 1 2 3 4 5

120Ω RESISTOR 426-6254 (A4)

ENGINE / COOLING PUMP

CAN 1

C7CAN1-2 — DIGCAN-5 CAN LOW — EIC3-05
C7CAN1-7 — DIGCAN-6 CAN HIGH — EIC3-04
C7CAN1-3 — DIGCAN-7 GND — EIC3-01
C7CAN1-6 — DIGCAN-8 24V CAN
C7CAN1-9 — +15V

EIC3-05 (13138) (13238) (14131) (14231)
EIC3-04 (13139) (13239) (14132) (14232)
EIC3-01 (13140) (13240) (14133) (14233)

COOLING PUMP 1 (6 PIN) (03239): 1 2 6
COOLING PUMP 2 (6 PIN) (03246): 1 2 6
COOLING PUMP 3 (6 PIN) (03251) L1850, L2350 ONLY: 1 2 6

120Ω RESISTOR 426-6254 (D2)

DRIVE SYSTEM

CAN 2

C8CAN0-2 — DIGCAN-9 CAN LOW — SRC2-05 — DRIVE SYSTEM INTERFACE
C8CAN0-7 — DIGCAN-10 CAN HIGH — SRC2-04 — DRIVE SYSTEM INTERFACE
C8CAN0-3 — DIGCAN-11 GND — SRC2-01 — DRIVE SYSTEM INTERFACE
C8CAN0-6 — DIGCAN-12 24V CAN
C8CAN0-9 — +15V

DRIVE SYSTEM SCHEMATIC	
MODEL	PART NUMBER
L950	426-5101
L1150	426-5101
L1350	427-5300
L1850, L2350	427-5302

SPARE CAN

CAN 3

C8CAN1-2 — DIGCAN-13 CAN LOW — DCP2-05
C8CAN1-7 — DIGCAN-14 CAN HIGH — DCP2-04
C8CAN1-3 — DIGCAN-15 GND — DCP2-01
C8CAN1-6 — DIGCAN-16 24V CAN
C8CAN1-9 — +15V

15V SUPPLIED FROM DIGITAL INTERFACE CARD

ELECTRIC SCHEMATIC LINCS II — SIZE E — DO NOT SCALE — SPEC NO. 4266282 — REV 01 — SHEET 9 OF 24

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AIR

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
G1/F1	01	KLENZ SOLENOIDS P/N WAS 425-5202	NL12-1909	8-27	FL	BS	BS

SWITCHES

(05237) CSP1-09 — SW KE (1, 2) — CSP1-05 → DI20 / DIGIN2-8 STANDARD → O4-23
KLENZ ENABLE SWITCH 403-1378 (D1)

(05231) RFM1-10/11 — J2-3 — PS ES1 — J2-2 — RFM1-01 → DI13 / DIGIN2-3 STANDARD → O4-17
ENGINE SAFETY FILTERS 423-5601 (D3)

PS ES2
423-5601 (D3)

PS ES3
423-5601 (D3) L1950, L2350 ONLY

PS ES4
423-5601 (D3) L1950, L2350 ONLY

TRANSDUCERS

(05240) KLZ1-10 — XDR KF (1, 3) — KLZ1-09 → AI19 / ALGIN2-3 4-20mA → C2-22
KLENZ FILTER DIFFERENTIAL 0-20 PSI IN H2O 425-5418 (E4)

(05203) FFR1-10/11 — J4-3 — XDR SB1 (1, 3) — J4-2 — FFR1-02 → AI11 / ALGIN1-11 4-20mA → C2-13
FRONT SERVICE BRAKES 0-200 PSI 425-5489 (E6)

(05203) FFR1-10/11 — J6-3 — XDR PB1 (1, 3) — J6-2 — FFR1-04 → AI12 / ALGIN1-12 4-20mA → C2-14
FRONT PARK BRAKES 0-200 PSI 425-5489 (D6)

(05224) RFF4-10/11 — J1-3 — XDR AS (1, 3) — J1-2 — RFF4-07 → AI31 / ALGIN2-15 4-20mA → C2-96
SYSTEM AIR 0-200 PSI 425-5489 (D4)

(05224) RFF4-10/11 — J5-3 — XDR HA (1, 3) — J5-2 — RFF4-06 → AI34 / ALGIN3-2 4-20mA → C3-2
HYD RESERVOIR 0-15 PSI 426-5196 (D4)

(05234) RAX1-10/11 — J7-3 — XDR SB2 (1, 3) — J7-2 — RAX1-05 → AI35 / ALGIN3-3 4-20mA → C3-3
REAR SERVICE BRAKES 0-200 PSI 425-5489 (E3)

(05234) RAX1-10/11 — J5-3 — XDR PB2 (1, 3) — J5-2 — RAX1-03 → AI36 / ALGIN3-4 4-20mA → C3-4
REAR PARK BRAKES 0-200 PSI 425-5489 (D3)

(05215) RFF1-10/11 — J1-3 — XDR KT (1, 3) — J1-2 — RFF1-07 → AI37 / ALGIN3-5 4-20mA → C3-5
KLENZ RESERVOIR AIR 0-200 PSI 425-5489 (E3)

(05228) RFF5-10/11 — J2-3 — XDR AT (1, 3) — J2-2 — RFF5-01 → AI39 / ALGIN3-7 4-20mA → C3-7
AMBIENT -58°F TO 185°F 426-8990 (E3)

SOLENOIDS

(05218)

C6-8 → DO36 / DIGOUT3-1 HIGH SIDE — MSR1-09 — SOL AH — MSR1-10
HORN SOL 426-1177 (A5)

C6-13 → DO39 / DIGOUT4-10 HIGH SIDE — KLZ1-01 — SOL K1 — KLZ1-12
KLENZ 1 SOL 423-4074 (E4)

C6-14 → DO40 / DIGOUT4-9 HIGH SIDE — KLZ1-02 — SOL K2
KLENZ 2 SOL 423-4074 (E4)

C6-15 → DO41 / DIGOUT4-8 HIGH SIDE — KLZ1-03 — SOL K3
KLENZ 3 SOL 423-4074 (E4)

C6-16 → DO42 / DIGOUT4-7 HIGH SIDE — KLZ1-04 — SOL K4
KLENZ 4 SOL 423-4074 (E4)

C6-17 → DO43 / DIGOUT4-6 HIGH SIDE — KLZ1-05 — SOL K5
KLENZ 5 SOL 423-4074 (E4)

C6-18 → DO44 / DIGOUT4-5 HIGH SIDE — KLZ1-06 — SOL K6
KLENZ 6 SOL 423-4074 (E4) L1950, L1850, L2350 ONLY

C6-20 → DO45 / DIGOUT4-4 HIGH SIDE — KLZ1-07 — SOL K7
KLENZ 7 SOL 423-4074 (E4) L1950, L2350 ONLY

(05215) RFF1-10/11 — J2-3 — SOL HA — (02160)
HYD TANK AIR SOL 426-1177 (E4)

SOL KA
KLENZ AIR SOL 426-1177 (E3)

0 — FU 09 10A (TB 2) — 0C — CR PB (30, 87 (02252)) — 13 — FFR1-06 — J8-2 — SOL PB1 — J8-1 — FFR1-08/12
FRONT PARK BRAKES SOL 426-1177 (D6)

RAX1-03 — J3-2 — SOL PB2 — J3-1 — RAX1-08/12
REAR PARK BRAKES SOL 426-1177 (D3)

HEATERS

(05241) KLZ1-11 — HTR KH — SW KH — KLZ1-08
KLENZ HEATER 426-0507 (E3) SW KH 426-0508 (E3)

(05218) RFF2-10/11 — J1-3 — HTR AD — J1-1 — RFF2-08/12
AIR DRYER HEATER CLOSES AT 40°F OPENS AT 30°F 425-8494 (E3)

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ELECTRIC SCHEMATIC LINCS II — SIZE E — DO NOT SCALE — SPEC NO 4266282 — REV 01 — SHEET 10 OF 24

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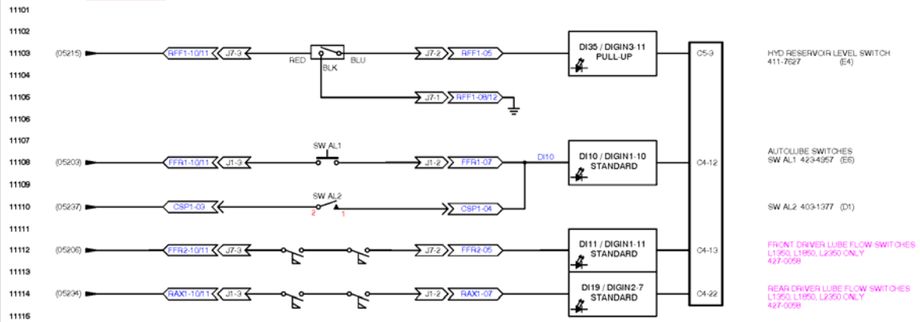
ELECTRICAL SCHEMATIC

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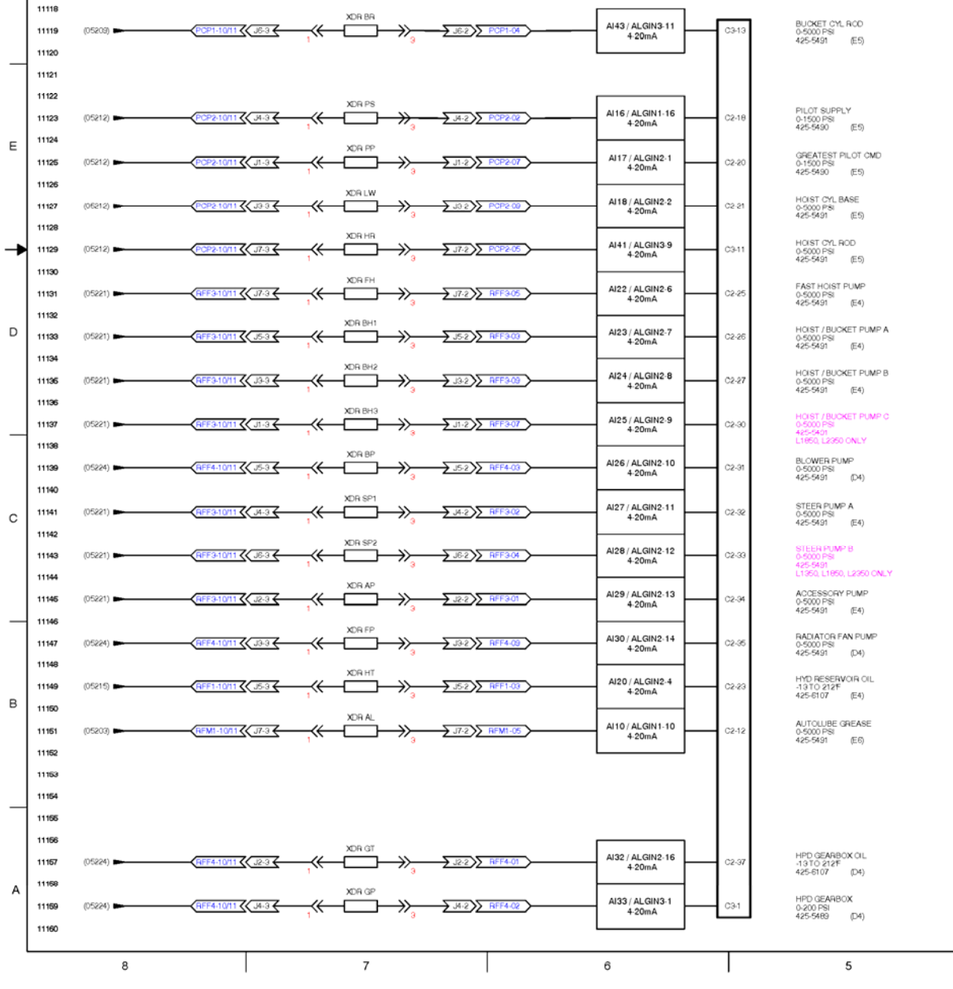
HYDRAULICS

REVISIONS							
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	01	NO CHANGE THIS SHEET	NL12-1909	8-27	FL	BS	BS

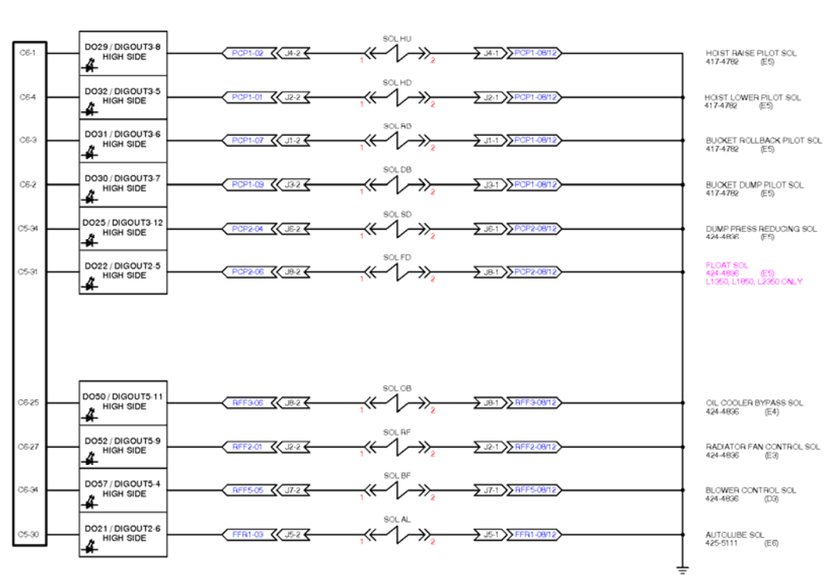
SWITCHES



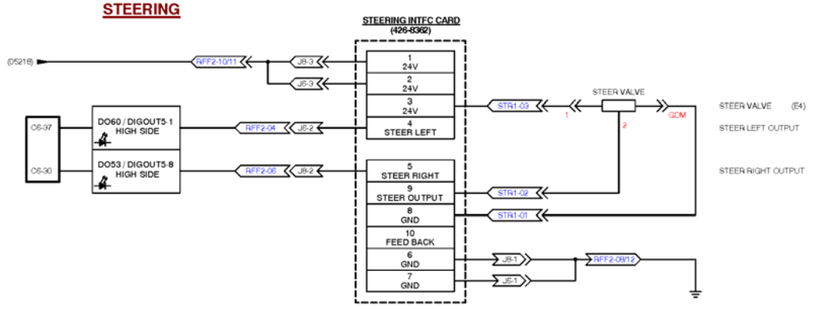
TRANSDUCERS



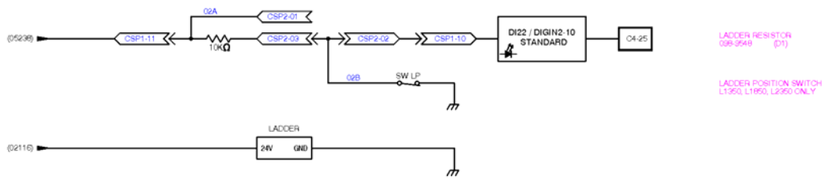
SOLENOIDS



STEERING



LADDER



ELECTRIC SCHEMATIC LINICS II	SIZE E	DO NOT SCALE	DWG NO 4266282	REV 01
Drawn: Tonner 5-27-2011	SCALE 1/1	FORMAT	SHEET 11 OF 24	

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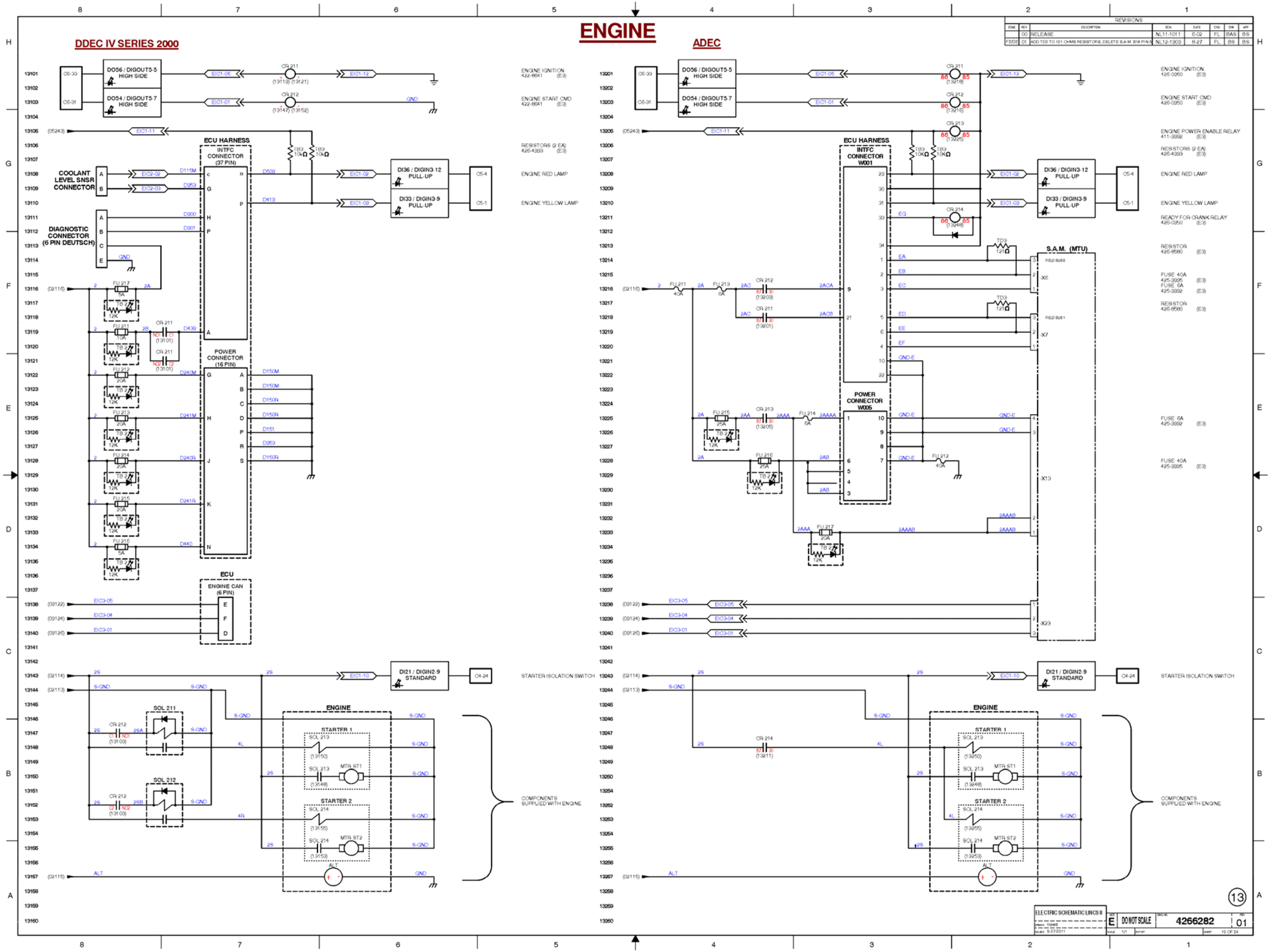
ELECTRIC SCHEMATIC LINCS II	SIZE E	DO NOT SCALE	SHEET NO. 4266282	REV 01
Drawn 5-27-2011	Scale 1/1		SHEET 12 OF 24	

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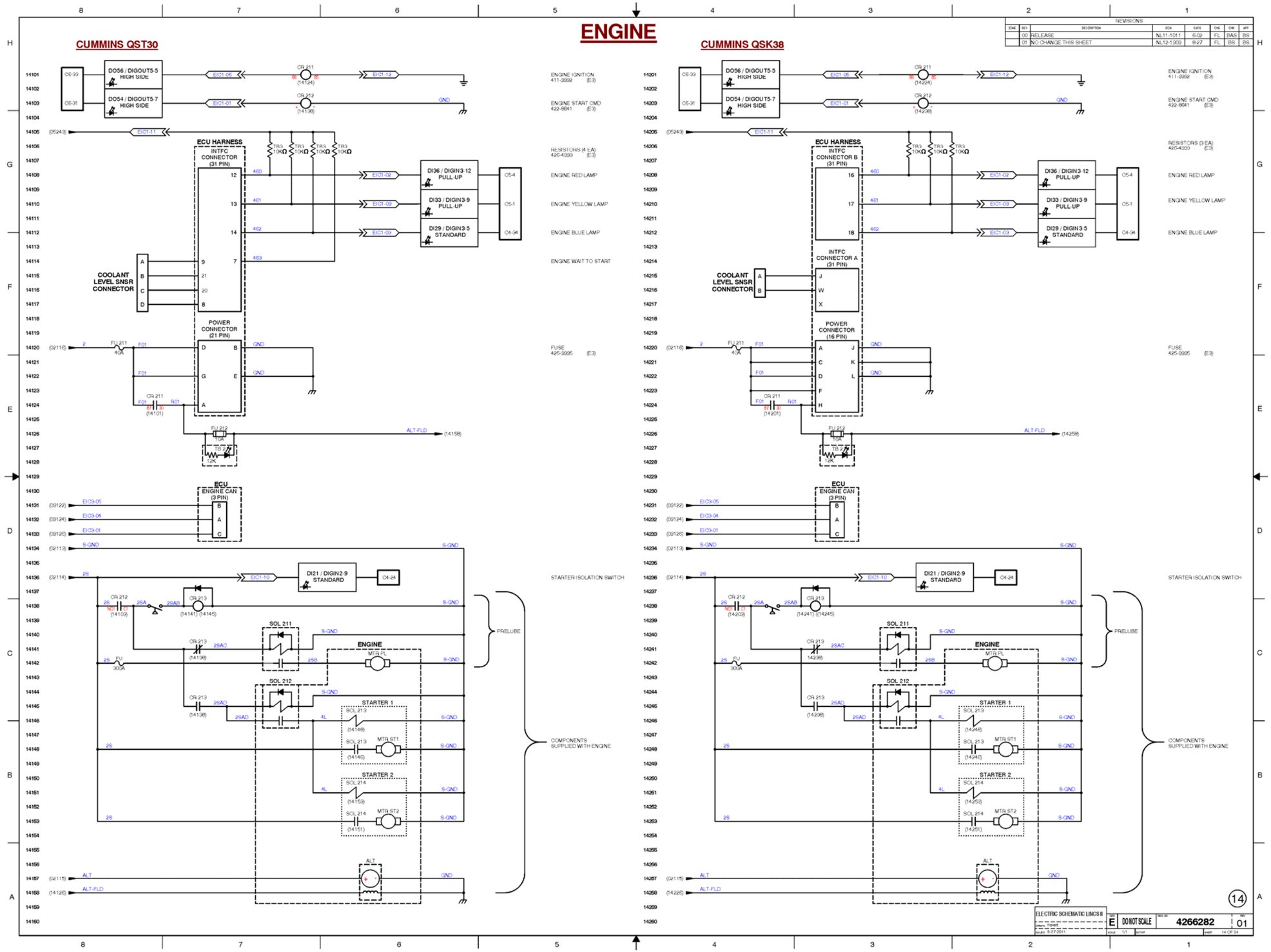
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ZONE	REV	DESCRIPTION	ECN	DATE	DRS	CHK	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
	01	NO CHANGE THIS SHEET	NL12-1909	8-27	FL	BS	BS

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ELECTRIC SCHEMATIC LINCS II	SIZE E	DO NOT SCALE	DWG NO 4266282	REV 01	
Effects Tickets					
DATE 5-27-2011	SCALE 1/1	DO NOT	SHEET 15 OF 24		

15

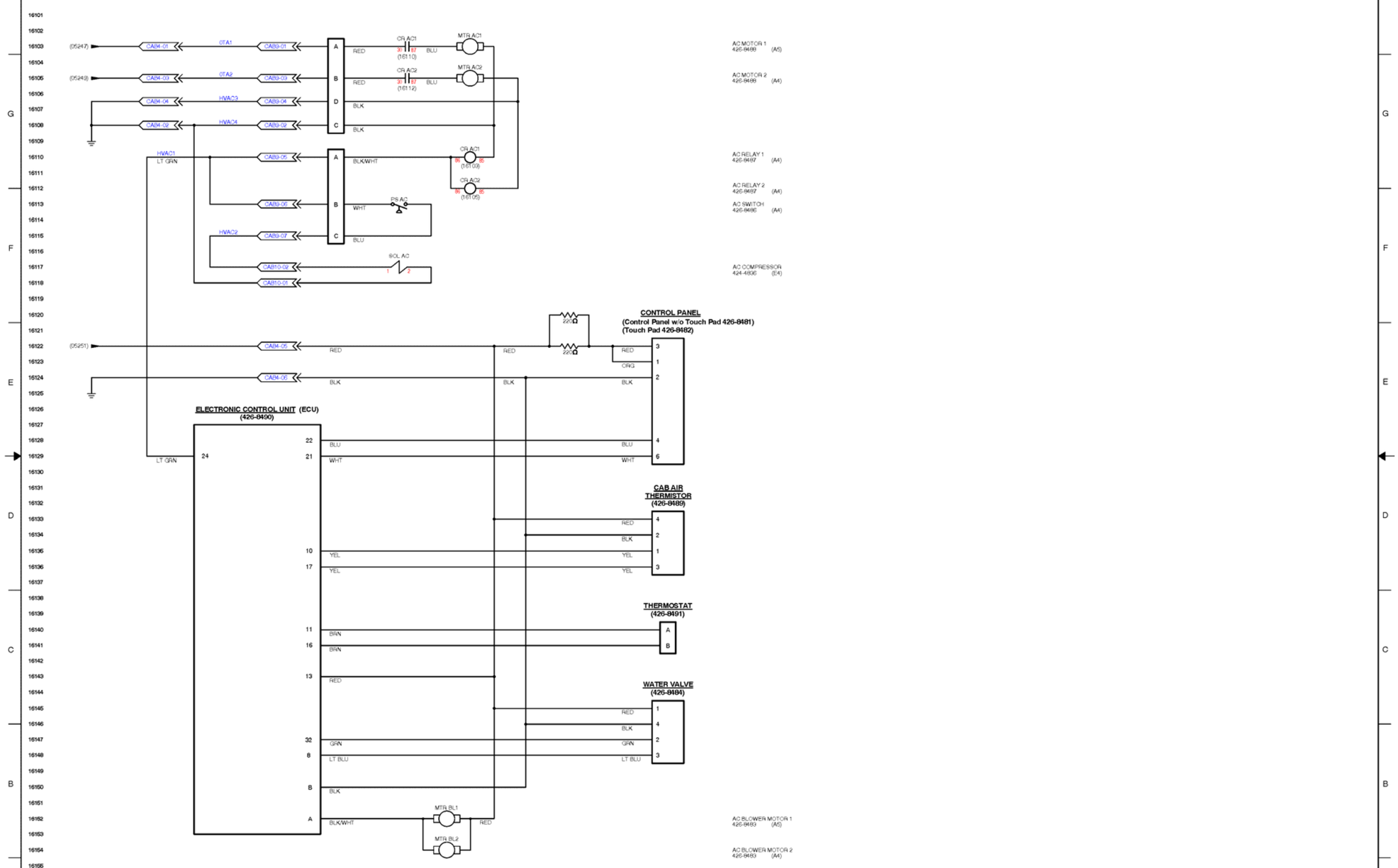
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CLIMATE CONTROL

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	DR	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
	01	NO CHANGE THIS SHEET	NL12-1909	8-27	FL	BS	BS



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ELECTRIC SCHEMATIC LINCS II | E | DO NOT SCALE | 4266282 | 01 | SHEET 16 OF 24

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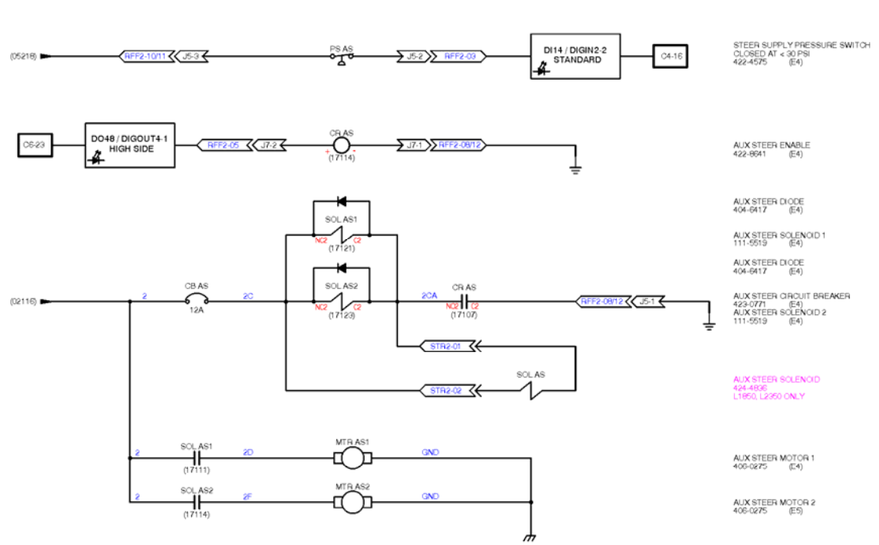
ELECTRICAL SCHEMATIC

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COMPONENT OPTIONS

REVISIONS							
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D5	01	AUX FAN ENABLE SOL P/N WAS 426-4696	PNL12FL2938	8/8			

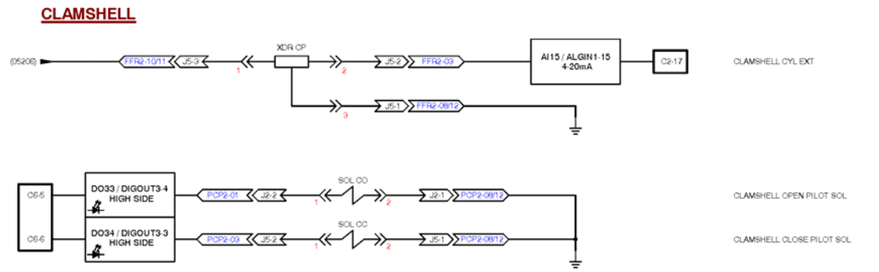
AUXILIARY STEER



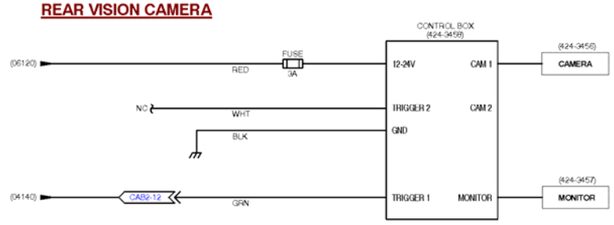
AUXILIARY OIL COOLER



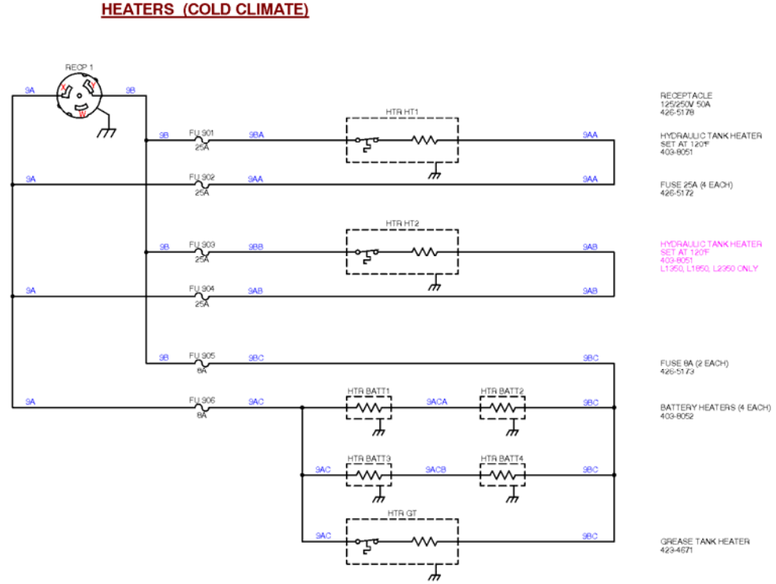
CLAMSHELL

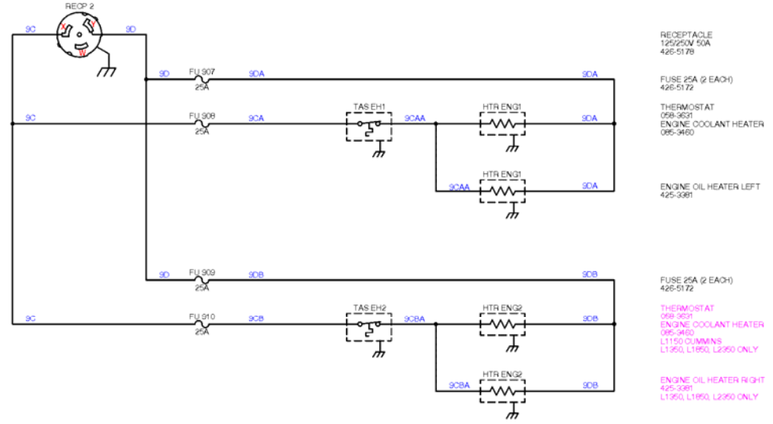


REAR VISION CAMERA



HEATERS (COLD CLIMATE)





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ELECTRIC SCHEMATIC LINCS II — SIZE E — DO NOT SCALE — DWG NO 4266282 — REV 01 — SHEET 17 OF 24

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ZONE	REV	DESCRIPTION	ECN	DATE	DR	CHK	APP
	00	RELEASE	N_11-1011	6-02	FL	BAS	BS
	01	NO CHANGE THIS SHEET	N_12-1909	8-27	FL	BS	BS

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ELECTRIC SCHEMATIC LINCS II — SIZE E — DO NOT SCALE — DWG NO. 4266282 — REV 01 — SHEET 18 OF 24

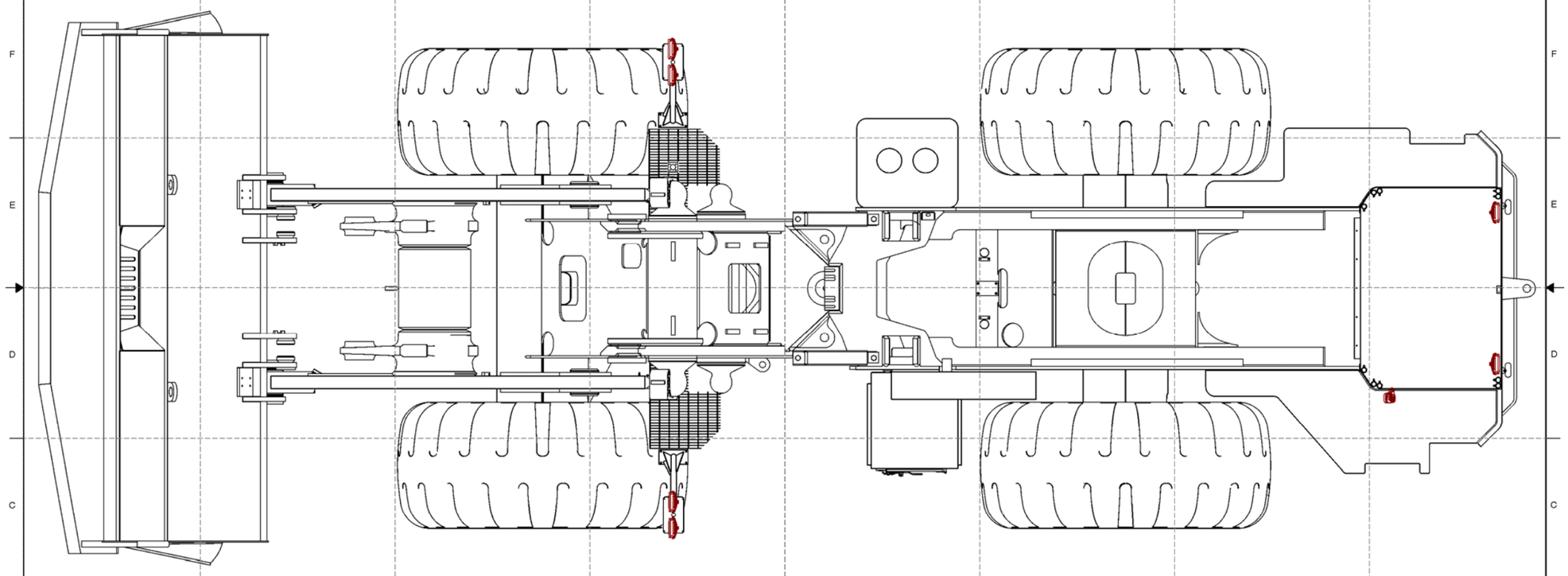
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ELECTRICAL SCHEMATIC

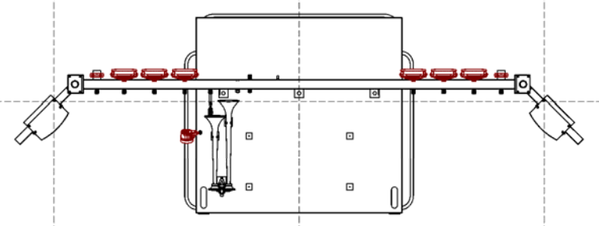
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REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	DR	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
	01	NO CHANGE THIS SHEET	NL12-1909	8-27	FL	BS	BS

FRAME LOCATION MAP



CAB & LIGHT BAR LIGHTS



BREAKOUT BOX LOCATIONS

NAME	LOCATION
PCP1	E5
PCP2	E5
FFR1	D6
FFR2	E6
EST1	D4
RFF1	E4
RFF2	E4
RFF3	E4
RFF4	D4
RFF5	D4
RFM1	D4
RAX1	E3

ELECTRIC SCHEMATIC LINCS II	SIZE E	DO NOT SCALE	DRAWING 4266282	REV 01
DRAWN TOMEE 5-27-2011	SCALE 1/1	SHEET 19 OF 24		

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REFERENCE INFORMATION

WIRE LOCATION CHART

WIRE CODE	LINE NO.
0	02110
0A	02120
0AA	02148
0AB	02144
0B	02214
0BA	02217
0BB	02241
0BB1	02223
0BC	02223
0BD	02226
0C	10226
0D	06103
0E	06118
0E1	03103
0E1A	03103
0E1B	03103
0EA	06118
0F	05107
0FA	05107
0G	05121
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	04248
0RA	04248
0S	04255
0SA	04255
0T	05247
0TA	05247
0TA1	16103
0TA2	16105
0V	05203
0VA	05203
0VB	05203
0VC	05206
0VD	05209
0VE	05212
0VF	05215
0VG	05218
0VH	05221
0VJ	05224
0W	05228
0WA	05228
0WB	05228
0WC	05231
0WD	05234
0WE	05237
0WF	05240
0X	04203
0Y	06215
0Z	03226
0ZA	03228
02A	11249
02B	11252
03	06112
12V1	06112
12V2	06112
13	10226
13B	02252
2	02110,13116,
	13216,14120,
	14220,17114
2A	13116,13216
2AA	13225
2AAA	13225
2AAAA	13225
2AAAB	13233
2AB	13228
2AC	13216
2ACA	13216
2ACB	13218

WIRE CODE	LINE NO.
2B	13119
2C	17239
2CA	17114
2D	17132,39
2F	17123
2S	02114,38,43,
	13243,14136,
	14236
2SA	13142,34138,
	14238
2SAB	14138,14238
2SAC	14141,14241
2SAD	14145,14245
2SB	13152,14142,
	14242
3B	02205
4L	13198,13248,
	14146,14246
4R	13153
460	14108,14208
461	14110,14210
462	14112,14212
463	14114
9A	17204,17218
9AA	17208
9AB	17213
9AC	17218
9ACA	17218
9ACB	17221
9B	17204,17216
9BA	17206
9BB	17231
9BC	17216
9C	17229,17242
9CA	17233
9CAA	17233
9CB	17242,1-10
9CBA	17242
9D	17229,17240
9DA	17231
9DB	17240,2-01
ALT	02115,93157,
	13257,03157,
	14257
ALT-FLD	14126,14226
CAB1-01	03103
CAB1-02	03103
CAB1-03	06112
CAB1-04	06113
CAB1-05	03107
CAB1-06	03107
CAB1-09	03206
CAB1-10	03209
CAB1-11	03203
CAB1-12	03203
CAB2-01	04203
CAB2-02	02232
CAB2-03	04119
CAB2-04	02205
CAB2-05	02210
CAB2-06	04115
CAB2-07	04115
CAB2-08	04209,11119
CAB2-09	04121
CAB2-12	17156
CAB3-01	03232
CAB3-02	03234
CAB3-03	06103
CAB3-04	06148
CAB3-05	06124,05
CAB3-06	06120,3
CAB3-07	06119
CAB3-08	06135,2-08
CAB3-09	04205
CAB3-10	03226
CAB3-11	03228,2-11
CAB3-12	03230,17141

WIRE CODE	LINE NO.
REF3-001	10534,7
REF3-002	05231,08131
CAB4-03	05249
CAB4-04	16108,19
CAB4-05	05251
CAB4-06	03524,24
CAB5-01	09108
CAB5-02	09112
CAB5-03	09110
CAB5-04	09106
CAB5-05	13228,09104
HVAC-CAB9-01	16110,16103
HVAC-CAB9-02	16116,16108
CAB9-03	16105
CAB9-04	16106
CAB9-05	16110
CAB9-06	16113
RAX1-0907	10116,15
10211 CAB10-01	RAX1-07,18
CAB10-02	16117
10217 CSP1-03	RAX1-06,11110,05234,10134,
CSP1-04	11110
10235 CSP1-05	RAX1-01,03 05235,10134
CSP1-07	04215
CSP1-08	04211
CSP1-09	04212
CSP1-10	11250
CSP1-11	05238,11250
CSP1-12	04212
CSP2-01	11249
04212 CSP2-02	RCL1-02,50
CSP2-03	11250
D115M	13108
D115M	13122
D150R	13124
D-FR3-L1-12	13042,55
D240M	13122
D240R	13141-12
D241M	13125
D241R	10203 13131
REF4-001	13247,7
REF4-002	05231,08131
CAB4-03	05249
CAB4-04	16108,19
CAB4-05	05251
CAB4-06	03524,24
CAB5-01	09108
CAB5-02	09112
CAB5-03	09110
CAB5-04	09106
CAB5-05	13228,09104
HVAC-CAB9-01	16110,16103
HVAC-CAB9-02	16116,16108
CAB9-03	16105
CAB9-04	16106
CAB9-05	16110
CAB9-06	16113
RAX1-0907	10116,15
10211 CAB10-01	RAX1-07,18
CAB10-02	16117
10217 CSP1-03	RAX1-06,11110,05234,10134,
CSP1-04	11110
10235 CSP1-05	RAX1-01,03 05235,10134
CSP1-07	04215
CSP1-08	04211
CSP1-09	04212
CSP1-10	11250
CSP1-11	05238,11250
CSP1-12	04212
CSP2-01	11249
04212 CSP2-02	RCL1-02,50
CSP2-03	11250
D115M	13108
D115M	13122
D150R	13124
D-FR3-L1-12	13042,55
D240M	13122
D240R	13141-12
D241M	13125
D241R	10203 13131
REF4-001	13247,7
REF4-002	05231,08131
CAB4-03	05249
CAB4-04	16108,19
CAB4-05	05251
CAB4-06	03524,24
CAB5-01	09108
CAB5-02	09112
CAB5-03	09110
CAB5-04	09106
CAB5-05	13228,09104
HVAC-CAB9-01	16110,16103
HVAC-CAB9-02	16116,16108
CAB9-03	16105
CAB9-04	16106
CAB9-05	16110
CAB9-06	16113
RAX1-0907	10116,15
10211 CAB10-01	RAX1-07,18
CAB10-02	16117
10217 CSP1-03	RAX1-06,11110,05234,10134,
CSP1-04	11110
10235 CSP1-05	RAX1-01,03 05235,10134
CSP1-07	04215
CSP1-08	04211
CSP1-09	04212
CSP1-10	11250
CSP1-11	05238,11250
CSP1-12	04212
CSP2-01	11249
04212 CSP2-02	RCL1-02,50
CSP2-03	11250
D115M	13108
D115M	13122
D150R	13124
D-FR3-L1-12	13042,55
D240M	13122
D240R	13141-12
D241M	13125
D241R	10203 13131

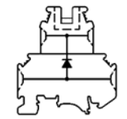
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EA	13214
EB	13215
EC	13216
ED	13218
EE	13219
REF4-01	11852,0
EG	13211
EIC1-01	13103,132
251	14-FR3-4-03
P3-2 EIC1-02	03238,08,1320
	14108,14208
P3-4 EIC1-03	03242,142
EIC1-05	13101,13
	14101,14201
EIC1-09	13110,32,10,
	14110,14210
EIC1-10	13143,1324
	14136,14236
EIC1-11	05243,13105,
11114	FR5-5-04,05,
	14205
EIC1-12	13101,13201,
	RFF5-5-07,14201
EIC2-02	RFF5-5-08
EIC2-03	13109
EIC3-01	09125,13140,
	13240,14133,
	14233
EIC3-04	09123,13139,
	13239,14132,
	14232
04127 EIC3-05	RFF1-01,38,
	13238,14131,
	14231
EST1-01	02132
EST1-02	02128
EST1-03	06124,10109,
EST1-04	02140
03257 EST1-07	02130
EST1-08	02140
EST1-09	02126
F01	14120,14220
FFR1-02	10126
FFR1-03	11225
FFR1-04	10128
FFR1-06	10226
FFR1-07	11108
FFR1-08	04221,10226,
	11225
FFR1-09	04221
FFR1-10	05203,10126,
	11108
12103 FFR1-11	05204,10126,
	11108
12107 FFR1-12	04221,10226,
	11225
FFR2-01	04223
FFR2-02	07117
FFR2-03	17135
FFR2-05	11112
FFR2-07	06134
FFR2-08	04223,06136,
	11155,17137
FFR2-09	06138
11145 FFR2-10	05206,06134,
	11112,11153,
	17135
11 FFR2-11	05207,06134,
	11112,11153,
	17135
11 FFR2-12	04223,06136,
	11155,17137

WIRE CODE	LINE NO.
FPL1-01	04234
FPL1-02	04234
FPL1-03	04236
FPL1-04	04236
FPL2-01	042
FPL2-02	04236
FPL2-03	04240
FPL2-04	04240
07303 GND-E	13221,13225,
REF4-07	10130
REF4-10	05224,06150,
HVAC3	16106
HVAC4	10130,16109
KLZ1-01	102
KLZ1-02	10249
07121 KLZ1	
KLZ1-04	10213
KLZ1-05	10235
03223 KLZ1-0	
KLZ1-07	10219
03223 KLZ1-0	
KLZ1-09	1012
KLZ1-10	05240
KLZ1-11	05241
KLZ1-12	1020
LLC1-01	04211
LLC1-02	04212
06152 LLC1	
MBR1-01	04125
MBR1-02	04125
MBR1-03	04242
MBR1-04	04242
MBR1-05	0
MBR1-06	04244
MBR1-07	04246
MBR1-08	04246
MBR1-10	102
MBR1-11	04217
MBR1-12	04217
MBR2-01	04130
MBR2-02	04130
MBR2-03	04248
MBR2-04	04248
MBR2-05	04250
MBR2-06	04250
MBR2-07	04252
MBR2-08	04252
MBR2-09	04144
MBR2-10	04144
PCP1-01	11205
PCP1-04	11119
PCP1-07	11207
PCP1-08	11203
PCP1-09	11209
PCP1-10	05
PCP1-11	05210,11119
PCP1-12	1120
PCP2-0	
PCP2-02	11123
PCP2-03	17
PCP2-0	
PCP	
PCP2-06	11
PCP2-07	11125
P	
PCP2-09	111
PCP2-10	05212,11123
PC	
PCP2-12	112

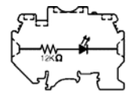
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P1-1	032
P1-2	03
P1-3	03241
P1-4	0
P2-2	03244
P2-3	03246
P2-4	03244
P3-1	03
P3-3	03251
RAX1-05	10134
RAX1-08	10228
RAX1-09	10228
	11114
RAX1-12	10228
RCL1-01	04257
RCL1-02	04257
RCL1-03	04132
RCL1-04	04134
RCL1-06	04129
RCL1-07	04138
RCL1-08	04229
RCL1-09	04229
RC	
RCL1-11	04255
RFF1-03	11149
RFF1-04	06130
RFF1-05	11103
RFF1-06	17129
RFF1-07	10138
RFF1-08	02158,11105,
	17129
RFF1-10	05215,10138,
	11149
RFF1-11	05216,10138,
	11149
RFF1-12	02158,11105,
	17129
RFF2-01	11221
RFF2-02	04227
RFF2-04	11236
RFF2-06	11238
RFF2-08	04227,10240,
	11221,17107
	11233,17103
	11233,17103
	11221,17107
RFF3-06	11219

WIRE CODE	LINE NO.
RFF3-11	05222,11131
RFF4-02	11159
RFF4-03	11139
RFF4-04	10132
RFF4-05	06150
RFF4-09	11147
	10130,11139
RFF4-11	05225,06150,
RFF5-01	1
RFF5-04	07123
RFF5-05	1
RFF5-08	03221,11223
RFF5-10	05228,10140
RFF5-11	05229,10140
RFF5-12	03221,11223
RFM1-01	10109
RFM1-04	06126
RFM1-05	11151
RFM1-06	03255
RFM1-08	03257,04225
RFM1-09	04225
RFM1-10	03255,05231,
	06126,10109,
	11151
RFM1-11	03255,05231,
	11151
S	
SRC1-04	06207
SRC1-05	06212
SRC1-06	06221
SRC1-10	06224
SRC1-11	06226
SCR1-12	06228
SRC2-01	09139
SRC2-04	09137
SRC2-05	09135
S-GND	02113,13144,
	13244,14134,
	14234
STR1-02	11239
STR2-01	17116
STR2-02	17118
SWRTN	04205

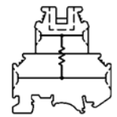
TB1
DIODE TERMINAL BLOCK
(426-4181)



TB2
ATC FUSE TERMINAL BLOCK
(426-4182)



TB3
RESISTOR TERMINAL BLOCK



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

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	DWG	CHK	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
D3	01	CHANGE ALL WIRE CODES: SCR1- TO SRC1-	3NL1248-22	FL	BS	BS	

ELECTRIC SCHEMATIC LINCS II	SIZE E	DO NOT SCALE	DRG NO. 4266282	REV 01
DRAWN TSWE	SCALE 1/1	SETUP	SHEET 20 OF 24	
DATE(S) 5-27-2011				

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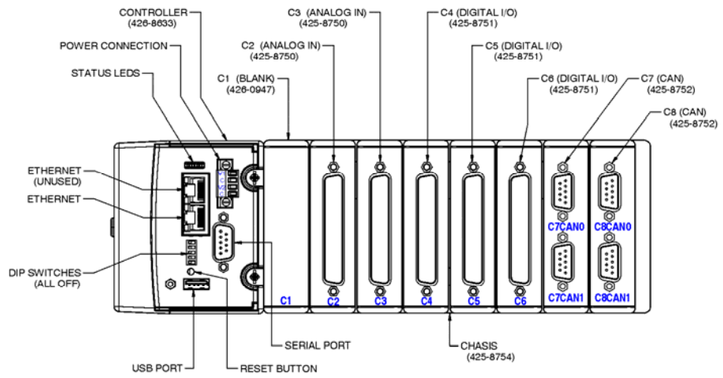
ELECTRICAL SCHEMATIC

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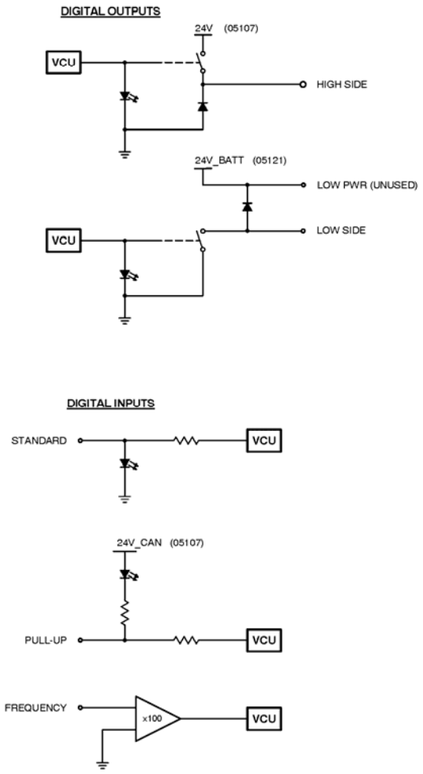
REFERENCE INFORMATION

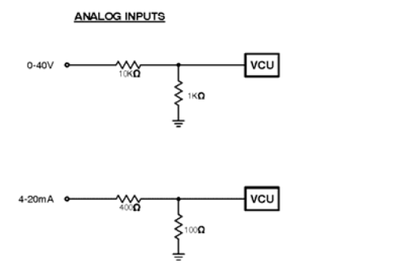
REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	DR	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
	01	NO CHANGE THIS SHEET	NL12-1909	8-27	FL	BS	BS

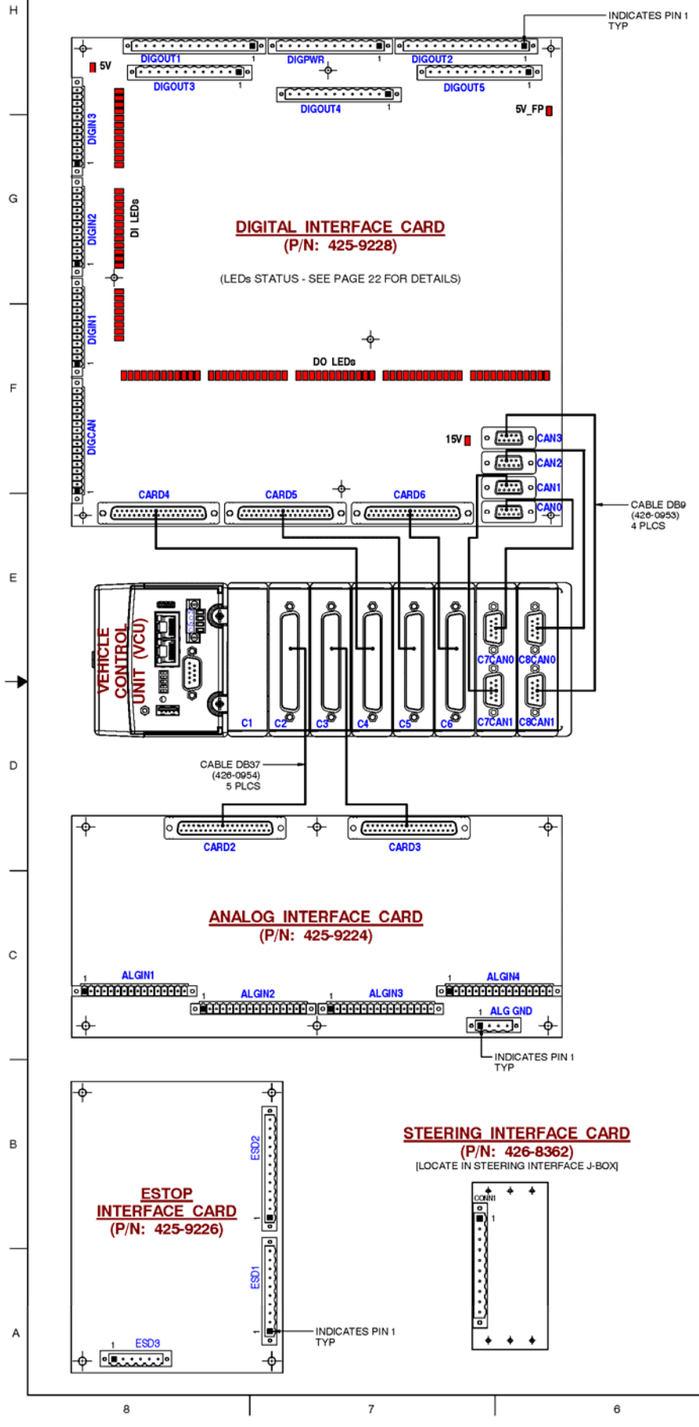
VEHICLE CONTROL UNIT (VCU) COMPONENT IDENTIFICATION



I/O EQUIVALENT CIRCUITS







ELECTRIC SCHEMATIC LINCS II	SIZE E	DO NOT SCALE	DWG NO 4266282	REV 01
DRAWN TOMES				
DATE 9-27-2011	ISSUE 1/1	SHEET	SHEET 21 OF 24	

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DIGITAL INTERFACE CARD STATUS LEDs

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	CHK	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
	01	NO CHANGE THIS SHEET	NL12-1309	8-27	FL	BS	BS

DIGITAL INPUTS

DI33 - 36
LED OFF = 24 VDC INPUT
LED ON = 0 VDC INPUT

DI5 - 32
LED OFF = 0 VDC INPUT
LED ON = 24 VDC INPUT

DI	FUNCTION	LINE #
36	ENGINE RED LAMP	13108, 13208, 14108,14208
35	HYD RESERVOIR LEVEL SW	11103
34	DRIVE COOL RESERVOIR LEVEL SW	03255
33	ENGINE YELLOW LAMP	13110, 13210, 14110,14210
32	UNUSED	-----
31	FIRE SYSTEM STATUS	02140
30	UNUSED	-----
29	ENGINE BLUE LAMP	14112, 14212
28	UNUSED	-----
27	RIGHT REAR E-STOP SWITCH	02130
26	LEFT REAR E-STOP SWITCH	02132
25	HYD RESERVOIR E-STOP SW	02128
24	HV CABINET E-STOP SWITCH	02126
23	CAB E-STOP SWITCH	02124
22	LADDER POSITION SWITCH	11250
21	STARTER ISOLATION SWITCH	13143, 13243, 14136,14236
20	KLENZ ENABLE SWITCH	10103
19	REAR DRIVER LUBE FLOW SWITCH	11114
18	UNUSED	-----
17	UNUSED	-----
16	UNUSED	-----
15	ENGINE SAFETY FILTERS	10109
14	STEER SUPPLY PRESSURE SWITCH	17103
13	UNUSED	-----
12	HV CABINET DOOR SWITCH	06203
11	FRONT DRIVER LUBE FLOW SWITCH	11112
10	AUTOLUBE SWITCHES	11108
9	UNUSED	-----
8	PARK BRAKE SWITCH	02255
7	KEYSWITCH IGNITION	02208
6	KEYSWITCH CRANK SWITCH	02210
5	UNUSED	-----

5V CARD SUPPLY
5V
DIGOUT1
DIGPWR
DIGOUT2
DIGOUT3
DIGOUT4
DIGOUT5
5V SPEED CONTROL PEDAL SUPPLY
5V_FP
DIGIN3
DIGIN2
DIGIN1
DI LEDs
DIGITAL_INTERFACE_CARD
(P/N: 425-9228)
DO LEDs
15V CARD SUPPLY
15V
DIGCAN1
CAN3
CAN2
CAN1
CAN0
CARD4
CARD5
CARD6

DO	FUNCTION	LINE #
1	UNUSED	-----
2	VOU / HMI KEEP ALIVE	02214
3	IGNITION KEEP ALIVE OUTPUT	02203
4	POLE WORK LIGHTS	04103
5	CAB LIGHT BAR LIGHTS	04107
6	UNUSED	-----
7	REAR COWL LIGHTS	04111
8	PARK BRAKE INTERLOCK OUTPUT	02249
9	RED ALARM LIGHT	04115
10	YELLOW WARNING LIGHT	04117
11	CAB AUDIBLE ALARM	04119
12	UNUSED	-----
25	DUMP PRESS REDUCING SOL	11211
26	UNUSED	-----
27	TAIL LIGHTS	04134
28	UNUSED	-----
29	HOIST RAISE PILOT SOL	11203
30	BUCKET DUMP PILOT SOL	11209
31	BUCKET ROLL BACK PILOT SOL	11207
32	HOIST LOWER PILOT SOL	11205
33	CLAMSHELL OPEN PILOT SOL	17141
34	CLAMSHELL CLOSE PILOT SOL	17143
35	BEACON	04144
36	HORN SOL	1C203
37	LEFT TURN SIGNAL	04125
38	RIGHT TURN SIGNAL	04130
39	KLENZ 1 SOL	1C207
40	KLENZ 2 SOL	1C209
41	KLENZ 3 SOL	1C211
42	KLENZ 4 SOL	1C213
43	KLENZ 5 SOL	1C215
44	KLENZ 6 SOL	1C217
45	KLENZ 7 SOL	1C219
46	UNUSED	-----
47	UNUSED	-----
48	AUX STEER ENABLE	17107
49	UNUSED	-----
50	OIL COOLER BYPASS SOL	11219
51	AUX FAN ENABLE SOL	17129
52	RADIATOR FAN CONTROL SOL	11221
53	STEER RIGHT OUTPUT	11238
54	ENGINE START CMD	13103, 13203, 14103, 14203
55	UNUSED	-----
56	ENGINE IGNITION	13101, 13201, 14101, 14201
57	BLOWER CONTROL SOL	11223
58	BACKUP LIGHTS & ALARM	04138
59	UNUSED	-----
60	STEER LEFT OUTPUT	11236
13	UNUSED	-----
14	FRONT WASHER PUMP	02221
15	REAR WASHER PUMP	02223
16	PARK BRAKE SWITCH LIGHT	04121
17	FRONT WIPER HIGH	02215
18	FRONT WIPER LOW	02217
19	REAR WIPER LOW OUTPUT	02219
20	UNUSED	-----
21	AUTOLUBE SOL	11225
22	FLOAT SOL	11213
23	DIGITAL OUTPUT POWER	02241
24	DRIVE SW POWER OUTPUT	02235

DIGITAL_OUTPUTS

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

22

ELECTRIC SCHEMATIC LINCS II
SIZE E DO NOT SCALE SHEET 1/1
DRAWING NO. 4266282
REV 01
SHEET 22 OF 24

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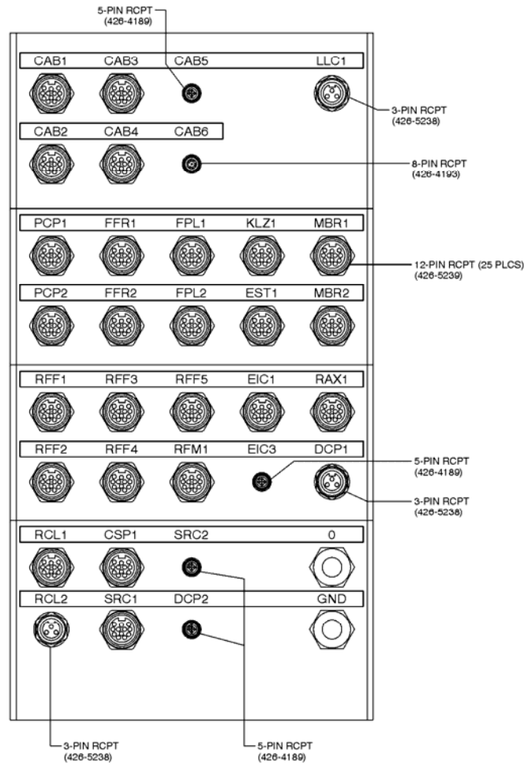
ELECTRICAL SCHEMATIC

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REFERENCE INFORMATION

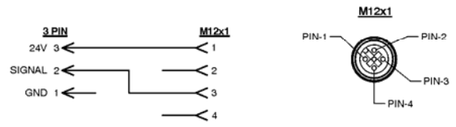
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	CHK	APP
REVISIONS							
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
	01	NO CHANGE THIS SHEET	NL12-1309	8-27	FL	BS	BS

CONNECTOR INDENTIFICATION
BACK PANEL CONNECTOR
LOW VOLT CONTROL CABINET (LVCC) (425-8773)

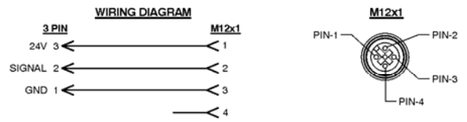


COMMON CABLES

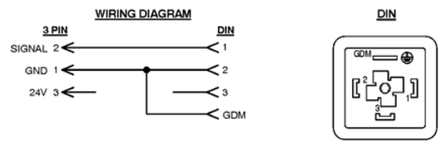
CABLE 3 PIN M12x1 GRAY)
(426-5234)



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

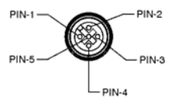


CABLE 3 PIN DIN YELLOW)
(426-5233)



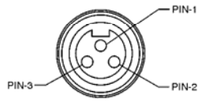
CONNECTOR COLOR CODES

5 PIN FEMALE CAN RECEPTACLE



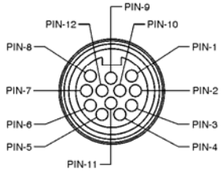
PIN LEGEND	
PIN	COLOR
1	DRAIN
2	RED 24V
3	BLK GND
4	WHT (CAN_H)
5	BLU (CAN_L)

3 PIN FEMALE RECEPTACLE



PIN LEGEND	
PIN	COLOR
1	GREEN
2	BLACK
3	WHITE

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

FOR ADDITIONAL CABLES SEE:

ASSY CAB WITH ELECTRICS	425-8779
GP HARNESS FRONT FRAME	MACHINE SPECIFIC
GP HARNESS REAR FRAME	MACHINE SPECIFIC

ELECTRIC SCHEMATIC LINCS II
SIZE E DO NOT SCALE DWG NO 4266282 REV 01
SCALE 1/1 SHEET 23 OF 24

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ELECTRICAL SCHEMATIC

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REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	CHK	APP
	00	RELEASE	NL11-1011	6-02	FL	BAS	BS
B8	01	RFF3 HST/BCKT PUMP A HARNESS CODE WAS RFF1-J5	NL12-1909	8-27	FL	BS	BS

BREAKOUT BOXES I/O

FFR1

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

FFR2

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

PCP1

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

PCP2

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

RFF1

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

RFF2

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

RFF3

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

RFF4

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

RFF5

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFF5-J1	RFF5-07	FRONT WASHER PUMP
RFF5-J3	RFF5-09	REAR WASHER PUMP
RFF5-J5	RFF5-03	UNUSED
RFF5-J7	RFF5-05	BLOWER SPEED CONTROL SOL
RFF5-J2	RFF5-01	AMBIENT AIR TEMPERATURE XDCR
RFF5-J4	RFF5-02	L TO R ANGLE (DOZER)
RFF5-J6	RFF5-04	F TO R ANGLE (DOZER)
RFF5-J8	RFF5-06	UNUSED

EST1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
EST1-J1	EST1-07	RIGHT REAR E-STOP SWITCH
EST1-J3	EST1-09	HV CABINET E-STOP SWITCH
EST1-J5	EST1-03	CAB E-STOP SWITCH
EST1-J7	EST1-05	UNUSED
EST1-J2	EST1-01	LEFT REAR E-STOP SWITCH
EST1-J4	EST1-02	HYD RESERVOIR E-STOP SWITCH
EST1-J6	EST1-04	FIRE SYSTEM STATUS
EST1-J8	EST1-06	UNUSED

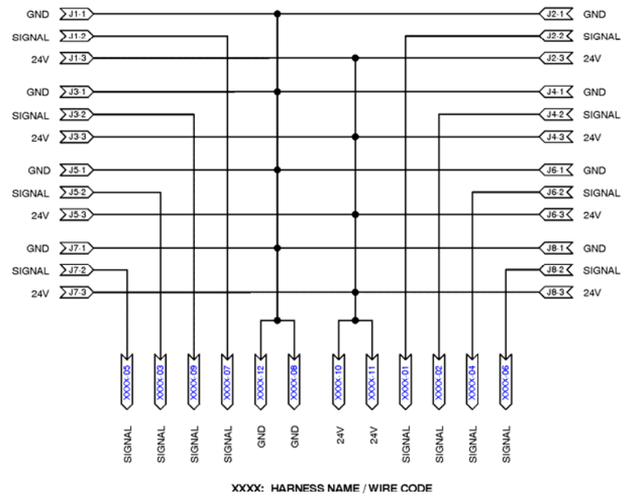
RAX1

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

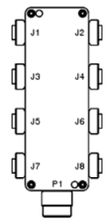
RFM1

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

BREAKOUT BOX
(426-5235)



XXXX: HARNESS NAME / WIRE CODE



ELECTRIC SCHEMATIC LINCS II	SIZE E	DO NOT SCALE	SHEET NO. 4266282	REV 01
Drawn Tyler				
Date 5-27-2011	Scale 1/1	Format	Sheet 24 OF 24	

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ELECTRICAL SCHEMATIC

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4266282		ELECTRICAL SCHEMATIC		
			NOTE:		
			· NO ASSOCIATED PARTS LIST		

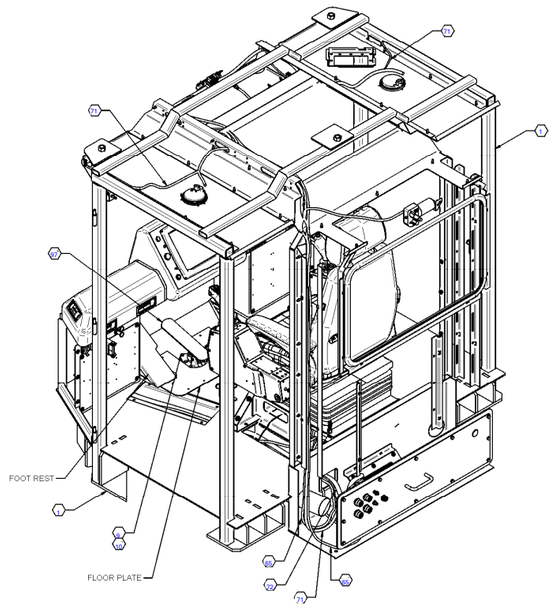
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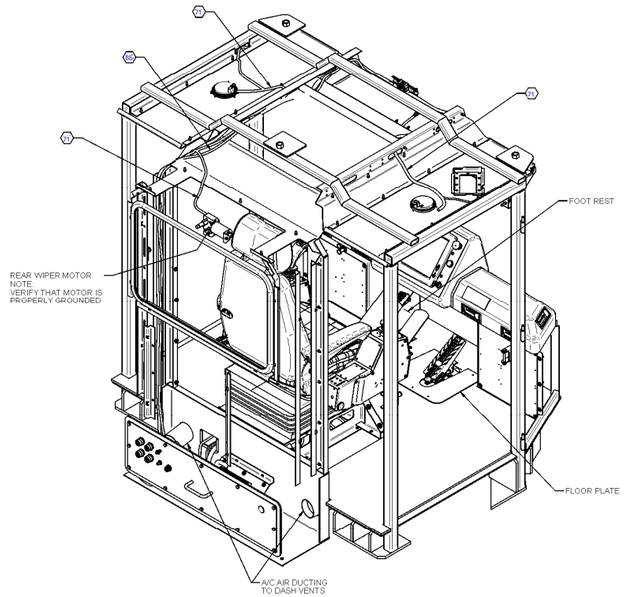
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

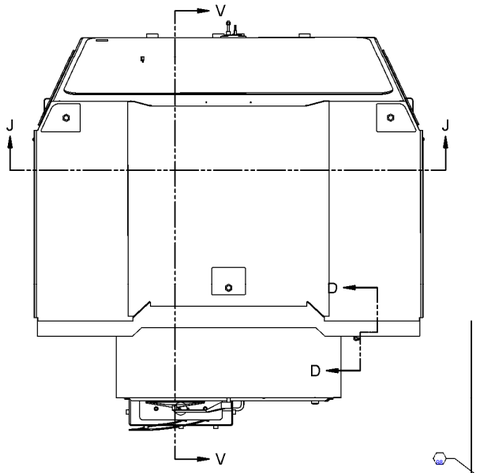
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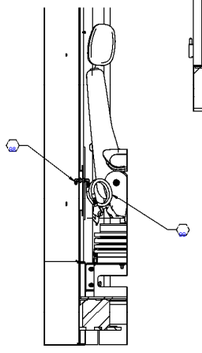
CAB WIRING DIAGRAM, LINCS II



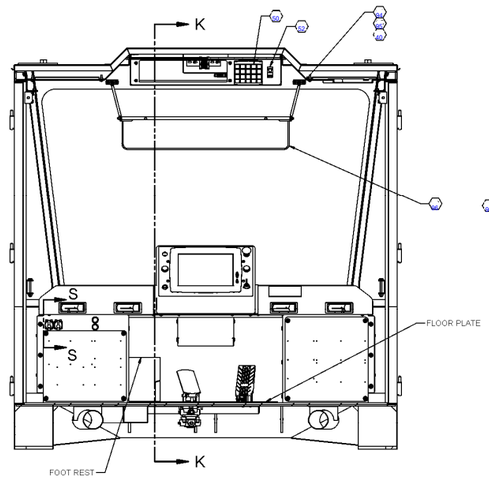




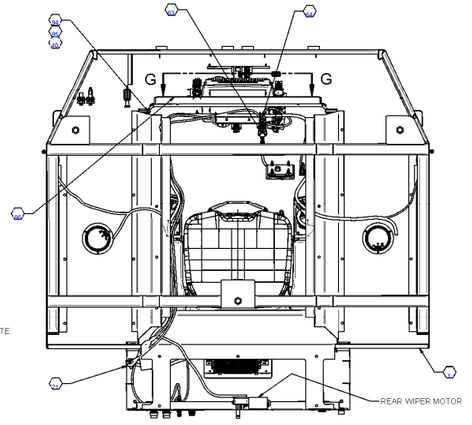
TOP VIEW OF CAB
WITH SKIN AND CLASS SHOWN



SECTION D-D

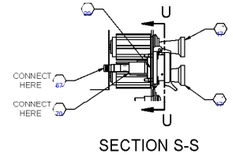


SECTION J-J

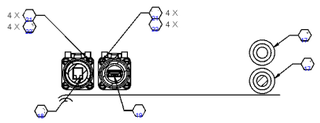


TOP VIEW OF CAB

WITHOUT SKIN AND GLASS SHOWN



SECTION S-S
1:2



SECTION U-U
1:2

REVISIONS								
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
B2,E2	03	ITEM 19 WAS P/N 4265755, ITEM 87 WAS P/N 4265712	1329312	7-20-16	JFM	KD	JS
E2	03	ITEM 64 WAS P/N 4266253 IN BOM	1329391	7-20-16	JFM	KD	JS

ITEM	PART NO.	QTY.	DESCRIPTION
106	4240201	1	WEDGE W3S DEUTSCH
105	4240200	3	SOCKET CONTACT, SIZE 16, GOLD PL
104	4240202	1	PLUG DT06-3S DEUTSCH
103	4240205	3	CONTACT PIN SIZE 16
102	4240206	1	WEDGE W3P DEUTSCH
101	4240204	1	RECEPTACLE DT04-3P DEUTSCH
100	4153882	2	SEALING PLUG #12-16 AWG
99	4274391	1	ASSY AIR BLOW GUN G2
98	4020763	1	90/ADPT 1/4MJX1/4MJ BULKHEAD
97	4274390	1	ASSY DUAL BRAKE VALVE
96	4116716	1	SUN VISOR ASSEMBLY 6 x 30
95	4012631	4	MSCR PH #10 .438 NF
94	0810880	4	WASHER FLAT .219 .50 .07
93	4270334	1	KIT WINDSHIELD WASHER 10 LITER
92	4266246	1	CABLE EXT CAN 0.5M
91	4270206	20	FERRULE INSUL 14AWG .315LG INSERT BLUE
90	4270205	91	FERRULE INSUL 16AWG .315LG INSERT BLK
89	4228722	1	MARKER DIN TERM BLOCK#221-230
88	4228723	1	MARKER DIN TERM BLOCK#231-240
87	4228710	1	MARKER DIN TERM BLOCK#101-110
86	4266258	1	CODE SHEET CAB LINCS 2
85	4228711	1	MARKER DIN TERM BLK #111-120
84	4228712	1	MARKER DIN TERM BLOCK#121-130
83	4228713	1	MARKER DIN TERM BLOCK#131-140
82	4228721	1	MARKER DIN TERM BLOCK#211-220
81	4228720	1	MARKER DIN TERM BLOCK#201-210
80	4266261	1	LABELS LINCS II CAB DASH
79	4228700	2	MARKER DIN TERMINAL BLOCK #1-10
78	4185765	1	WEDGE LOCK, RECEPTACLE
77	4185764	2	SOCKET CONTACT SIZE 16
76	4185763	10	PIN CONTACT, SIZE 16
75	4185761	1	RECEPTACLE 12 WAY
74	4212588	4.0	WIRE HOOKUP #18 AWG 1000V RED/WHT
73	4120401	34	CABLE #16 AWG EXANE DLO 600 VAC
72	4268381	1	HARNESS CAB LOWER
71	4268380	1	HARNESS CAB UPPER
70	4274679	1	CAT5e PATCH CABLE 3 FT
69	4274677	1	CAT5e PATCH CABLE 10 FT
68	4259325	15	CONDUIT SLIT LOOM 1/4 INCH
67	4286141	1	CABLE USB 3.0 A MALE-A MALE 2M
66	4239844	1	COM PORT ADAPTER
65	4265838	2	CABLE EXT CAN 4.3M
64	4266150	1	CAN Y MALE - 2 FEM TURCK
63	4267774	1	CABLE KEYPAD LINCS II
62	4268538	1	CABLE RJ11 - OPEN 3M
61	4268346	REF	CABLE USB TOUCH SCREEN 5M
60	4268348	1	CABLE VIDEO DVI-A M TO HD15 M 3m
59	4264192	1	RCPT E-NET MALE-RJ45/2M
58	4266255	2	RCPT CAN FEED THRU
57	4046896	7	CONDUIT SEAL RING .500
56	4265238	1	RCPT 3 PIN FEM/3M 1/2-14NPT
55	4265239	1	RCPT 12 PIN FEM/3M 1/2-14NPT
54	4265839	1	RECEPTACLE 3 PIN MALE 5M
53	4264983	4	RECP 12 PIN MALE/4M 1/2-14NPT
52	4270329	1	ROCKER SWITCH 15A 24V
51	4268321	4	NUT LOCK NYL INS M5
50	4264118	1	KEYPAD CAN LINCS II
49	4265750	1	SWITCH NETWORK 4-PORT
48	4266266	19	BRIDGE FIXED PHOENIX FB10-6
47	4228656	12	PLATE SEPARATING PHOENIX TS-HK3
46	4264184	1	TERM BLK COVER PHOENIX 27 71 02 3
45	4265756	7	BRACKET END PHOENIX 08 00 88 6
44	4264180	29	TERM BLK GRAY PHOENIX 27 71 14 6
43	4228646	2	TERM BLOCK 2 TERM #24 - 10 AWG DIN GND
42	4264183	3	TERM BLK GND PHOENIX 27 74 21 1
41	4227190	6	TERM BLOCK 1-2 TERM #10 AWG
40	4010907	10	WASHER LOCK SPR .190 .334 .047
39	4010283	6	MSCR PH #10 .500 NF
38	4238908	1	RAIL MOUNTING 6 INCH LG DIN
37	4268563	1	TERMINAL MARKERS CAB
36	4251863	2	RAIL MOUNTING 11.00 LONG DIN
35	4094849	1	ALARM, ELECTRONIC
34	4270330	1	KEY SWITCH ASSEMBLY
33	4265193	1	OPERATOR PUSH PULL AMBER NC
32	4274443	1	E-STOP SWITCH, 22MM
31	4240171	1	LIGHT ASSY YELLOW LED SUPERBRIGHT
30	4240170	1	LIGHT ASSY RED LED SUPERBRIGHT
29	4239848	1	READ HEAD-IBUTTON
28	0819904	4	WASH LK STL #8
27	4012415	4	MSCR PH #8-32 UNC X 1.00
26	4265199	1	SCREEN TOUCH LINCS II
25	4010905	8	WASHER LCK SPR #4
24	4245454	8	MSCR PH #4 .500 NC SS
23	4240483	2	NUT PLATE - SHELL SIZE 18
22	4286140	1	RCPT USB-A W/CAP
21	4265754	1	RCPT ETHERNET W/CAP
20	4100796	2	LIGHTER 12V
19	4286271	1	MOUNT HMI UNO
18	4270183	1	HMI WITH SOFTWARE
17	0814157	2	BOLT HX .250 1.000 NC G8
16	4259998	1	ACCELERATOR PEDAL 35°FIXED
15	4010922	3	WASHER FLAT .188 .44 .07
14	0184949	3	WASHER STAR EXT #8
13	0989217	3	SCREW PH #8-32 UNC-2A x 5/8LG
12	0213584	9	WASHER LOCK SPR .25 .49 .06
11	4009612	7	BOLT HX .250 1.250 NC G8
10	4266271	1	MOUNT HMI UNO
9	4270183	1	HMI WITH SOFTWARE
8	0753123	4	WASHER LOCK SPR .375 .68 .09
7	0808221	4	WASHER FLAT .375 .81 .08
6	0812921	4	NUT HX 0.375-16UNC-2B G8 PL
5	0808476	4	BOLT HX .375 1.250 NC G8
4	4267775	1	ASSY SEAT LINCS II
3	4274711	1	CAB W/FLOORPLATE & FOOTREST-G2
2	4267775	1	ASSY SEAT LINCS II
1	4274711	1	CAB W/FLOORPLATE & FOOTREST-G2
ITEM	PART NO.	QTY.	DESCRIPTION

ITEM	PART NO.	QTY.	DESCRIPTION
112	4274642	1	PNL, DISPLAY MNT LINCS II TOUCH SCREEN
111	4019420	2	WIRE TERM RT 16-14 .25 INS (BLU)
110	0506807	1	WASHER LOCK EXT .256 .51 .03
109	4105645	1	NUT HEX, 1/4-20 UNC-2B SS
108	4105637	1	BOLT HX .250 .500 NC SS
107	4274680	1.5	SELF-GRIPPING VINYL EDGE
ITEM	PART NO.	QTY.	DESCRIPTION

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1665.00.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°; FRAC TONS ±1/16; XX.0 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	J.MARTIN	5-21-12
CHK	B.SHAFER	5-21-12
ENGR	B.SHAFER	5-21-12
PROD ENGR	B.SHAFER	5-21-12
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP CAB WITH ELECTRICS

SIZE E | DO NOT SCALE | DWG NO. 4274640 | REV 03

SCALE 1/8 | WEIGHT 2413.6 lbs | SHEET 1 OF 5

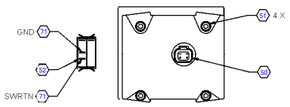
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CAB WIRING DIAGRAM, LINCS II

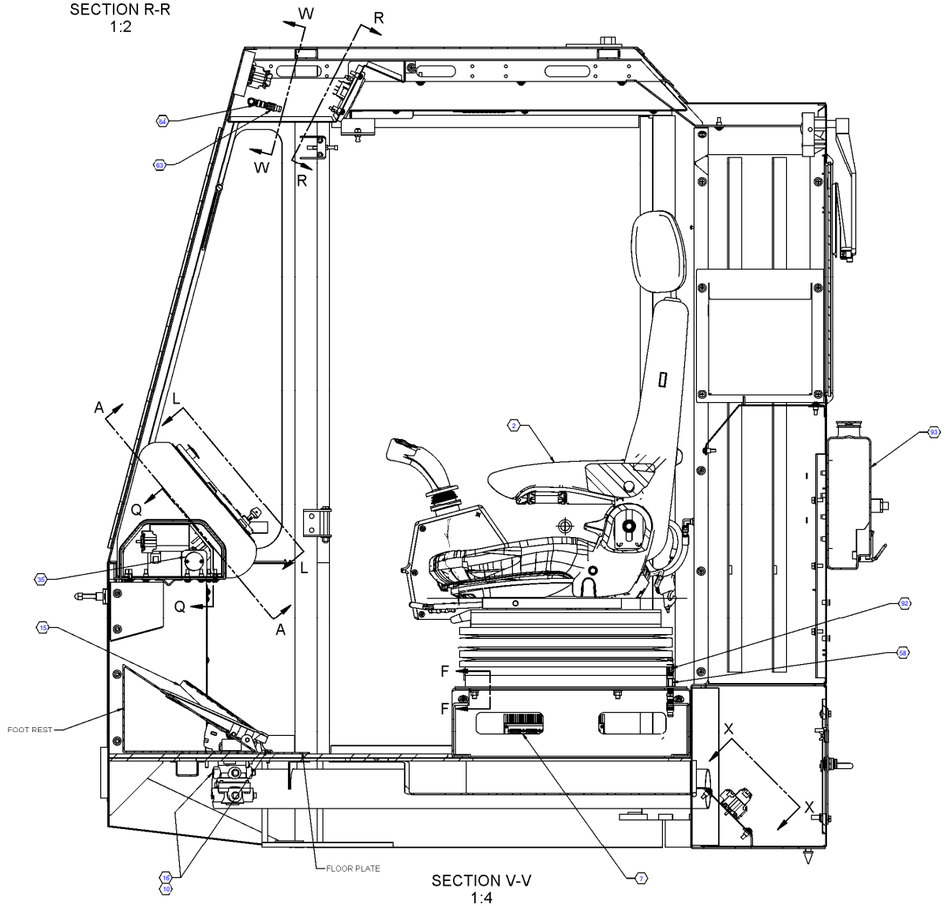
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CAB WIRING DIAGRAM, LINCS II

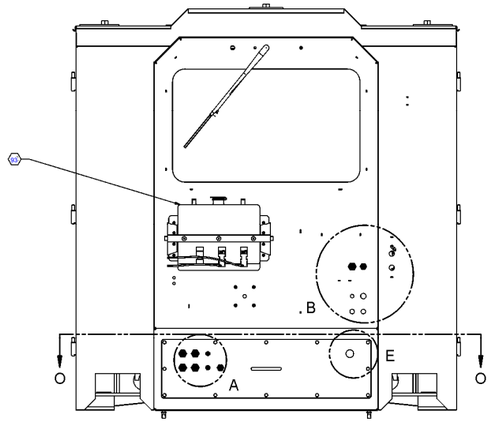
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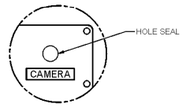
SECTION R-R
1:2



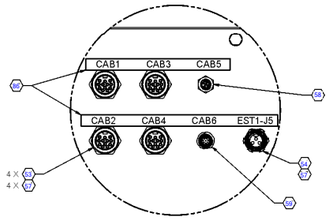
SECTION V-V
1:4
FROM TOP VIEW ON SHEET 1



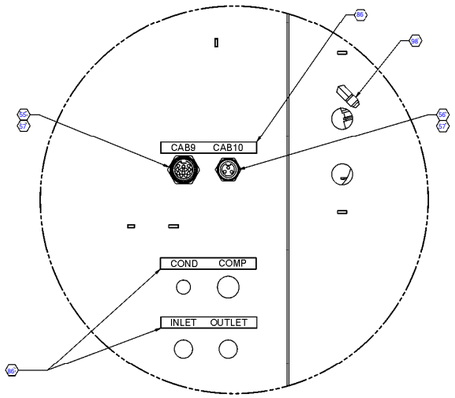
BACK VIEW OF CAB



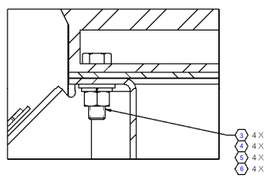
DETAIL E
1:4



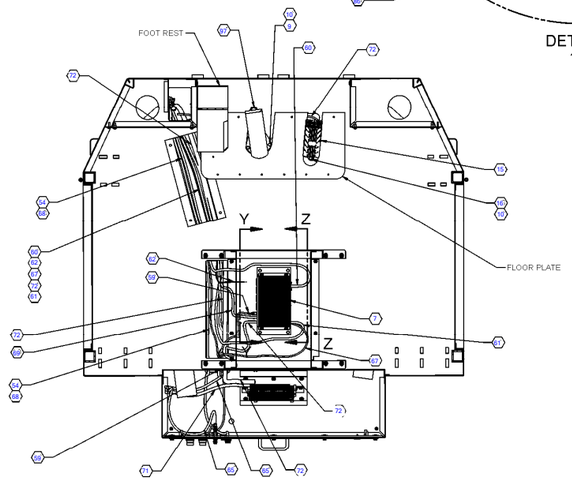
DETAIL A
1:2



DETAIL B
1:2



SECTION F-F
1:1



SECTION O-O

GP CAB WITH ELECTRICS		E	DO NOT SCALE	4274640	03
DRAWN JMARTIN					
ISSUED 5-21-12	SCALE 1/8	SHEET 2 OF 5			

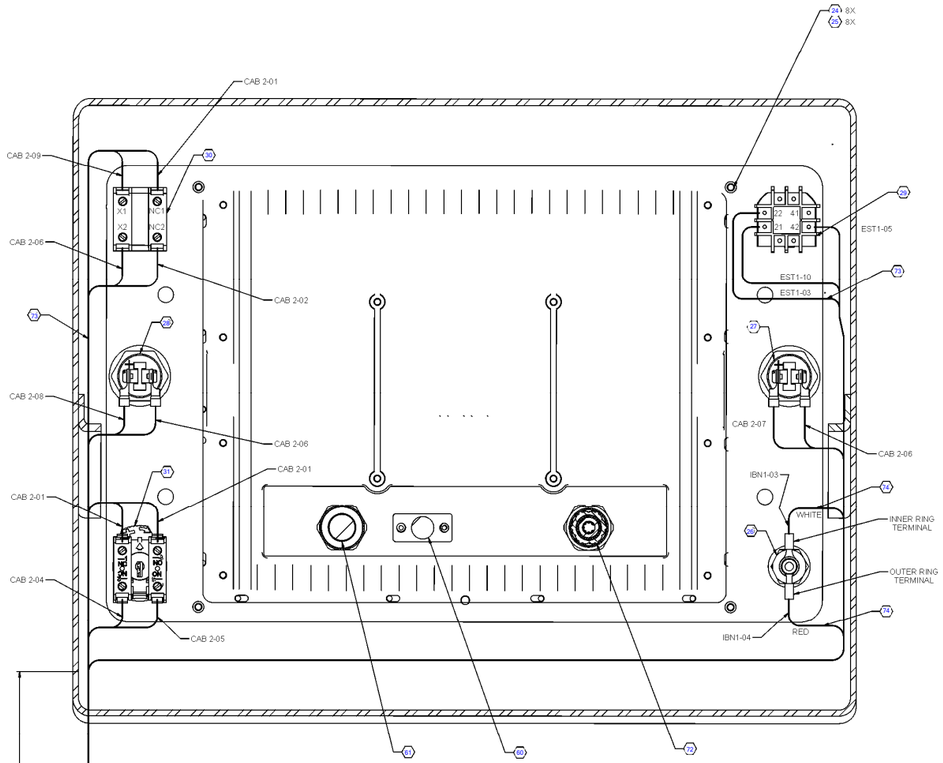
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CAB WIRING DIAGRAM, LINCS II

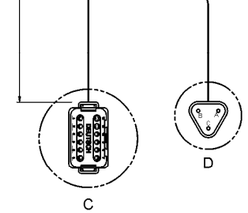
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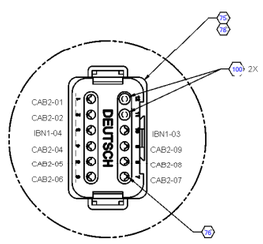
CAB WIRING DIAGRAM, LINCS II

REVISIONS							
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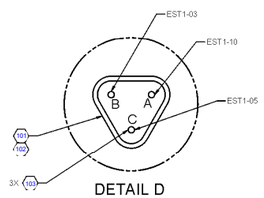


SECTION A-A
1:1
FROM SECTION V-V SHEET 2
DASH CENTER CONSOLE WIRING
REAR VIEW

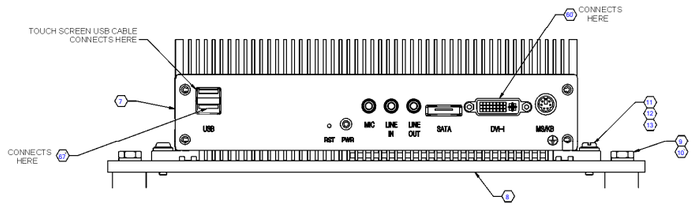




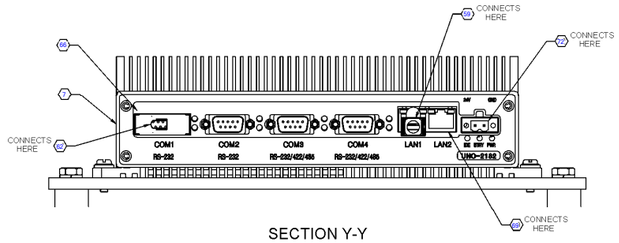
DETAIL C
RECEPTACLE 12 WAY



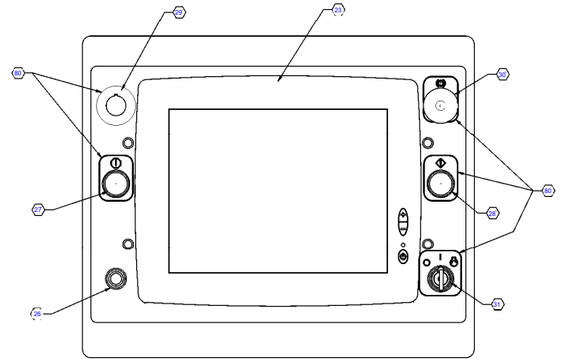
DETAIL D
RECEPTACLE 3 WAY



SECTION Z-Z
1:1
FROM SECTION V-V SHEET 2



SECTION Y-Y
1:1
FROM SECTION V-V SHEET 2



SECTION L-L
1:2
FROM SECTION V-V SHEET 2
DASH CENTER CONSOLE FRONT VIEW

GP CAB WITH ELECTRICS		SIZE E	DO NOT SCALE	DRG NO. 4274640	REV 03
DRAWN J.MARTIN					
ISSUED 5-21-12		SCALE 1/8	WT/WT	SHEET 3 OF 5	

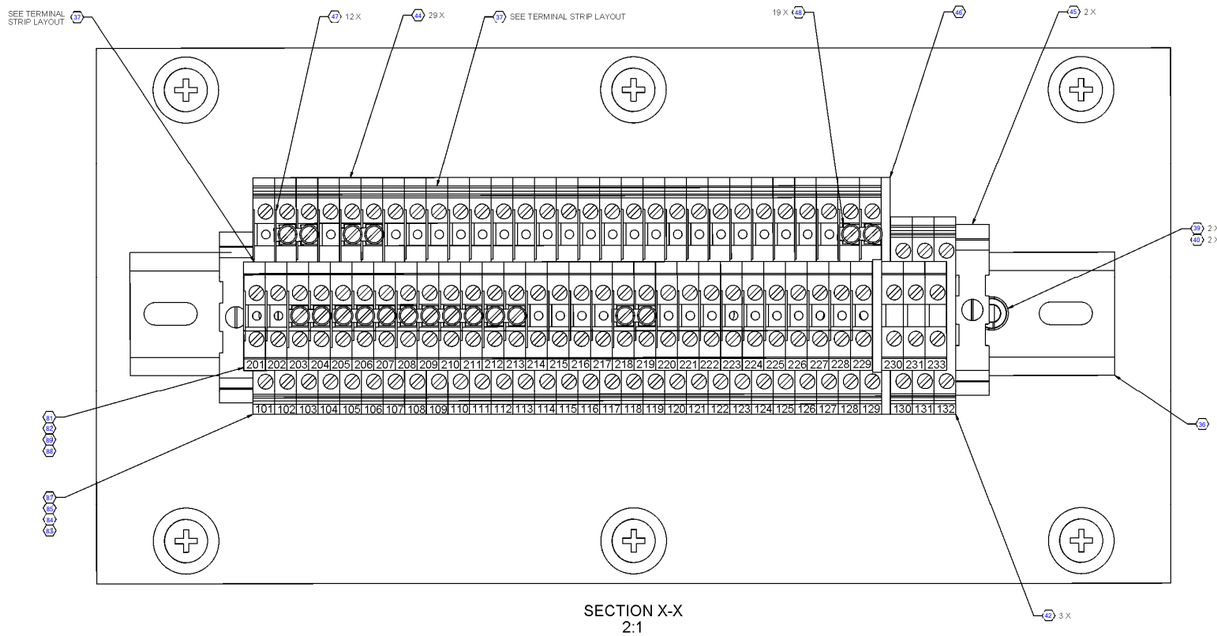
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CAB WIRING DIAGRAM, LINCS II

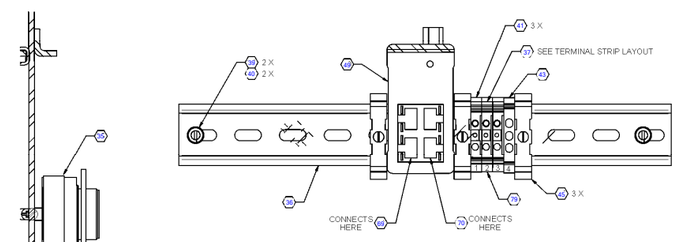
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CAB WIRING DIAGRAM, LINCS II

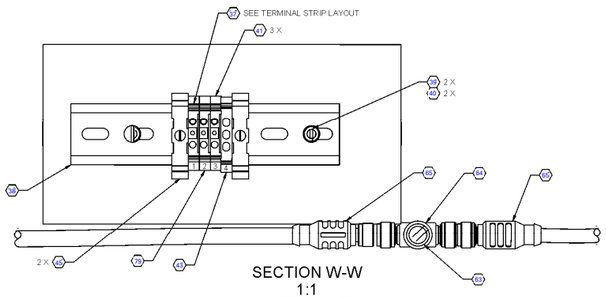
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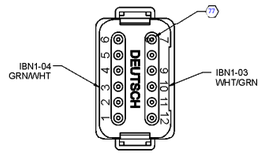
SECTION X-X
2:1
FROM SECTION V-V SHEET 2
REAR DIN RAIL COMPONENTS



SECTION Q-Q
1:1
FROM SECTION V-V SHEET 2
DASH DIN RAIL COMPONENTS



SECTION W-W
1:1
FROM SECTION V-V 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 77) 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)
41	4227190	5.3	7.1	0.6	0.8
42	4264183	5.3	7.1	0.6	0.8
43	4228946	5.3	7.1	0.6	0.8
44	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/BLK	102-L
CAB1-06	ORN/BLK	105-L
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
CAB2-07	BLU/BLK	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	218-L
CAB4-03	WHT/BLK	220-L
CAB4-04	RED/BLK	221-L
CAB4-05	GRN/BLK	222-L
CAB4-06	ORN/BLK	223-L
CAB4-07	BLU/BLK	224-L
CAB4-08	BLK/WHT	225-L
CAB4-09	GRN	226-L
CAB4-10	RED	227-L
CAB4-11	WHT	228-L
CAB4-12	BLK	229-L
CAB9-01	ORN	217-R
CAB9-02	BLU	218-R
CAB9-03	WHT/BLK	220-R
CAB9-04	RED/BLK	221-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	NC
CAB9-10	RED	NC
CAB9-11	WHT	NC
CAB9-12	BLK	NC
CAB10-1	GRN	219-L
CAB10-2	BLK	127-R
CAB10-3	WHT	NC

LOWER HARNESS

WIRE CODE	CONNECTOR-PIN TERMINAL	DESTINATION TERMINAL BLOCK
CAB1-01		101-R
CAB1-02		104-R
CAB1-05		102-R
		103-R
CAB1-06		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
0EA		205-R
12V2		208-R
12V2		209-R
12V2		210-R
GND		130-R
GND		131-R

UPPER HARNE

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

AC HARNESS

WIRE COLOR	DESTINATION TERMINAL BLOCK
RED	222-R
BLK	223-R
LT GRN	128-L

ESTI-J5 CONNECTOR *

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

* CUT WIRES TO LENGTH NEEDED TO MATE WITH 3PIN CONNECTOR ITEM 101 F FROM THE E-STOP SWITCH.

TERMINAL STRIP LAYOUT

LOWER LEVEL TERMINAL BLOCK #	LABEL	UPPER LEVEL TERMINAL BLOCK #	LABEL
101	CAB1-01	201	CAB3-01
102	CAB1-05	202	CAB3-02
103	CAB1-05	203	0D
104	CAB1-02	204	0D
105	CAB1-06	205	0EA
106	CAB1-06	206	0EA
107	CAB1-07	207	0EA
108	CAB1-08	208	12V2
109	CAB1-09	209	12V2
110	CAB1-10	210	12V2
111	CAB1-11	211	12V2
112	CAB1-12	212	CAB3-09
113	CAB2-01	213	CAB3-09
114	CAB2-02	214	CAB3-10
115	CAB2-03	215	CAB3-11
116	CAB2-04	216	CAB3-12
117	CAB2-05	217	0TA1
118	CAB2-06	218	HVAC4
119	CAB2-07	219	HVAC4
120	CAB2-08	220	0TA2
121	CAB2-09	221	HVAC3
122	CAB2-10	222	CAB4-05
123	CAB2-11	223	CAB4-06
124	CAB2-12	224	CAB4-07
125		225	CAB4-08
126		226	CAB4-09
127	HVAC2	227	CAB4-10
128	HVAC1	228	CAB4-11
129	HVAC1	229	CAB4-12
130		230	
131		231	
132		232	

LOWER CONSOLE

1	0D
2	0EA
3	12V2
4	

UPPER CONSOLE

1	0D
2	0EA
3	12V2
4	

LEGEND

205-R

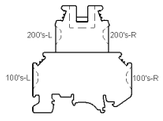
TERMINAL BLOCK #
1's & 10's: SINGLE LEVE TERMINAL BLOCK
100's: LOWER LEVEL TERMINAL BLOCK
200's: UPPER LEVEL TERMINAL BLOCK

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

[: TERMINAL BRIDGE

—: SEPERATING PLATE

———: SPACER COVER



TERMINAL BLOCK LAYOUT

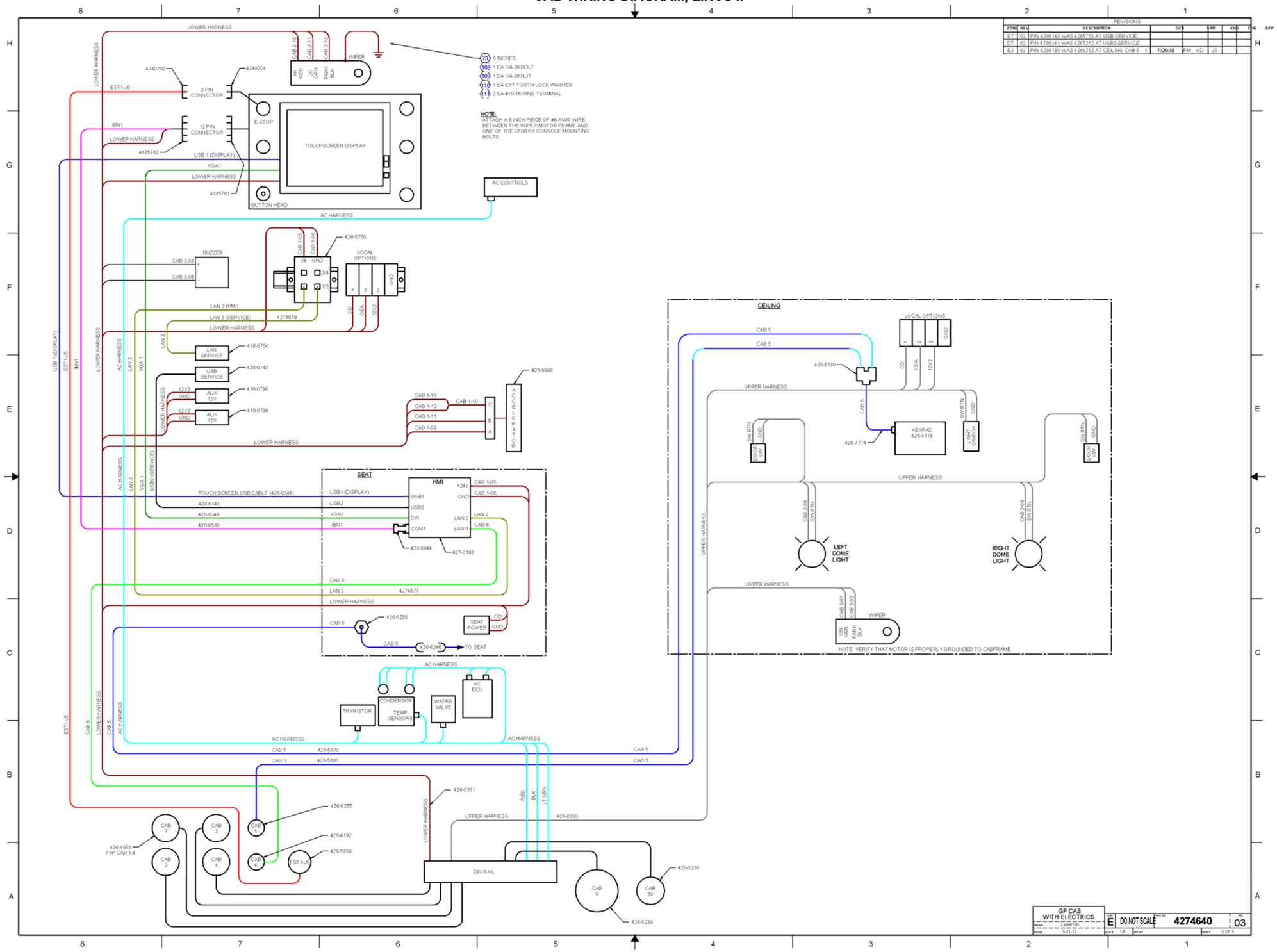
GP CAB WITH ELECTRICS		SIZE E	DO NOT SCALE
DRWN J.MARTIN		DWG NO. 4274640	REV 03
DSGND 5-21-12	SCALE 1/0	SHEET 4 OF 5	

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CAB WIRING DIAGRAM, LINCS II

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CAB WIRING DIAGRAM, LINCS II



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CAB WIRING DIAGRAM, LINCS II

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CAB WIRING DIAGRAM, LINCS II

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274640		CAB WIRING DIAGRAM, LINCS II		1/6/17
1	R4274711	1	· CAB ASSEMBLY, 50 SERIES LINCS II		6/10/13
2	R4267775	1	· OPERATOR'S SEAT ASSEMBLY - LINCS II		
3	R0808476	4	· BOLT, 3/8"-16 X 1-1/4"		
4	R0812921	4	· NUT, 3/8"-16		
5	R0808221	4	· FLATWASHER, 3/8"		
6	R0753123	4	· LOCKWASHER, 3/8"		
7	R4270183	1	· HMI WITH SOFTWARE		
8	R4266271	1	· MOUNT, HMI UNO		
9	R4009612	7	· BOLT, 1/4"-20 X 1-1/4"		
10	R0213584	9	· LOCKWASHER, 1/4"		
11	R0989217	3	· SCREW, #8-32 X 5/8"		
12	R0184949	3	· LOCKWASHER, #8 - EXTERNAL TOOTH		
13	R4010922	3	· FLATWASHER, 3/16"		
14	N.P.N.		· NOT USED		
15	R4259998	1	· PEDAL ASSEMBLY, SPEED CONTROL - 35 deg. FIXED		
16	R0814157	2	· BOLT, 1/4"-20 X 1"		
17	R4100796	2	· LIGHTER, 12V		
18	R4265754	1	· RECEPTACLE, ETHERNET WITH CAP		
19	R4286140	1	· RECEPTACLE, USB-A WITH CAP		9/28/16
20	R4240483	2	· NUT PLATE, #18		
21	R4245454	8	· SCREW, #4-40 X 1/2" - S.S.		
22	R4010905	8	· LOCKWASHER, #4		
23	R4274714	1	· TOUCH SCREEN ASSEMBLY - LINCS II (SEE NOTE)		1/6/17
	R4274632	1	· · TOUCH SCREEN - LINCS II (SEE NOTE)		1/6/17
	R4274637	1	· · MOUNT BRACKET ASSEMBLY, DISPLAY		2/6/13
	R4274638	1	· · MOUNT PANEL, DISPLAY		2/6/13
	R4274639	1	· · DASH MOUNT, REAR		2/6/13
	R4274634	1	· · DASH PANEL, CENTER		2/6/13
24	R4012415	4	· SCREW, #8-32 X 1"		
25	R0819904	4	· LOCKWASHER, 3/16"		
26	R4239848	1	· I BUTTON READER SOCKET		
27	R4240170	1	· LIGHT ASSEMBLY, INDICATOR - RED		
28	R4240171	1	· LIGHT ASSEMBLY, INDICATOR - AMBER		
29	R4274443	1	· E-STOP, TWIST RELEASE		
30	R4265193	1	· SWITCH, PUSH PULL - AMBER, N.C.		
31	R4270330	1	· KEYSWITCH ASSEMBLY		
32	N.P.N.		· NOT USED		
33	N.P.N.		· NOT USED		
34	N.P.N.		· NOT USED		
35	R4094849	1	· ALARM, 24VDC - BOTTOM		
36	R4251863	2	· MOUNTING RAIL, 11" DIN		
37	R4268563	1	· TERMINAL MARKERS, CAB		
38	R4238908	1	· MOUNTING RAIL, 6" DIN		
39	R4010283	6	· SCREW, #10-32 X 1/2" - P.H.		
40	R4010907	10	· LOCKWASHER, #10		
41	R4227190	6	· TERMINAL BLOCK, 1-2 TERM. #10 AWG		
42	R4264183	3	· TERMINAL BLOCK, GROUND		
43	R4228646	2	· TERMINAL BLOCK, 2 TERM.		
44	R4264180	29	· TERMINAL BLOCK, GRAY		
45	R4265756	7	· BRACKET END		
46	R4264184	1	· TERMINAL BLOCK, COVER		
47	R4228656	12	· PLATE, SEPARATING - TS-KK3 DIN		
48	R4266266	19	· BRIDGE, FIXED		
49	R4265750	1	· SWITCH, NETWORK 4 PORT		
50	R4264118	1	· KEYPAD, CAN - LINCS II		
51	R4268321	4	· LOCKNUT, 5 MM - NYLON		
52	R4270329	1	· SWITCH, ROCKER - 15A 24V		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
53	R4264983	4	· RECEPTACLE, 12 PIN - MALE		
54	R4265839	1	· RECEPTACLE, 3 PIN - MALE		
55	R4265239	1	· RECEPTACLE, 12 PIN - FEMALE		
56	R4265238	1	· RECEPTACLE, 3 PIN - FEMALE		
57	R4046896	7	· RING, SEALING - 1/2" - CONDUIT		
58	R4266255	2	· RECEPTACLE, CAN FEED THRU		
59	R4264192	1	· RECEPTACLE, ETHERNET - MALE		
60	R4268348	1	· CABLE, VIDEO - DVI-A M TO HD15 3M		
61	R4268346	REF	· CABLE, USB TOUCH SCREEN 5M		
62	R4268538	1	· CABLE, RJ11 - OPEN 3M		
63	R4267774	1	· CABLE, KEYPAD - LINCS II		
64	R4286130	1	· CABLE Y, CAN - 1 MALE-2 FEMALE		9/28/16
65	R4265838	2	· CABLE EXTENSION, CAN 4.3M		
66	R4239844	1	· ADAPTER, COM PORT		
67	R4286141	1	· CABLE, USB 3.0 A MALE-A MALE 2M		9/28/16
68	R4259325	15	· CONDUIT, SLIT LOOM - 1/4"		
69	R4274677	1	· CABLE, CAT5 PATCH - 10'		
70	R4274679	1	· CABLE, CAT5 PATCH - 3'		
71	R4268380	1	· HARNESS, CAB UPPER		
72	R4268381	1	· HARNESS, CAB LOWER		
73	R4120401	34	· CABLE, #16 AWG 600V		
74	R4212588	4	· WIRE HOOKUP, #18 AWG - 1000V		
75	R4185761	1	· RECEPTACLE, 12 WAY		
76	R4185763	10	· PIN, CONTACT - 16		
77	R4185764	2	· SOCKET, CONTACT - 16		
78	R4185765	1	· WEDGE LOCK, RECEPTACLE		
79	R4228700	2	· MARKER, DIN - TERMINAL BLOCK, #1-10		
80	R4266261	1	· LABELS, LINCS II - CAB DASH		
81	R4228720	1	· MARKER, DIN - TERMINAL BLOCK, #201-210		
82	R4228721	1	· MARKER, DIN - TERMINAL BLOCK, #211-220		
83	R4228713	1	· MARKER, DIN - TERMINAL BLOCK, #131-140		
84	R4228712	1	· MARKER, DIN - TERMINAL BLOCK, #121-130		
85	R4228711	1	· MARKER, DIN - TERMINAL BLOCK, #111-120		
86	R4266258	1	· CODE SHEET, CAB LINCS II		
87	R4228710	1	· MARKER, DIN - TERMINAL BLOCK, #101-110		
88	R4228723	1	· MARKER, DIN - TERMINAL BLOCK, #231-240		
89	R4228722	1	· MARKER, DIN - TERMINAL BLOCK, #221-230		
90	R4270205	87	· FERRULE, INSULATED - 16 AWG .315LG BLACK		
91	R4270206	20	· FERRULE, INSULATED - BLUE		
92	R4266246	1	· CABLE EXTENSION, CAN .5M		
93	R4270334	1	· WINDSHIELD WASHER KIT		
94	R0810880	4	· FLATWASHER, #10		
95	R4012631	4	· SCREW, #10-32 X 7/16"		
96	R4116716	1	· SUNVISOR, 6" X 30"		
97	R4274390	1	· VALVE, BRAKE		
98	R4020763	1	· ELBOW, #4 MJ X 90 deg. X #4 MJ - BULKHEAD		
99	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		
100	R4153882	2	· PLUG, SEALING - #12-16 AWG		
101	R4240204	1	· RECEPTACLE		
102	R4240206	1	· WEDGE, W3P		
103	R4240205	3	· PIN, CONTACT - 16		
104	R4240202	1	· PLUG		
105	R4240200	3	· SOCKET, CONTACT - 16		
106	R4240201	1	· WEDGE, W3S		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
107	R4274680	2	· VINYL EDGE, SELF-GRIPPING		
108	R4105637	1	· BOLT, 1/4"-20 X 1/2" - S.S.		
109	R4105645	1	· NUT, 1/4"-20 - S.S.		
110	R0506807	1	· LOCKWASHER, 1/4" - EXTERNAL TOOTH		
111	R4019420	2	· TERMINAL, WIRE - #16-14, 1/4" HOLE		
112	R4274642	1	· MOUNT PANEL, DISPLAY		
			NOTE:		
			· WHEN REPLACING TOUCH SCREEN R4265199 ORDER TOUCH SCREEN ASSEMBLY R4274714		1/6/17
		REF	DRAWING, CAB WIRING DIAGRAM (R427464003)		9/28/16

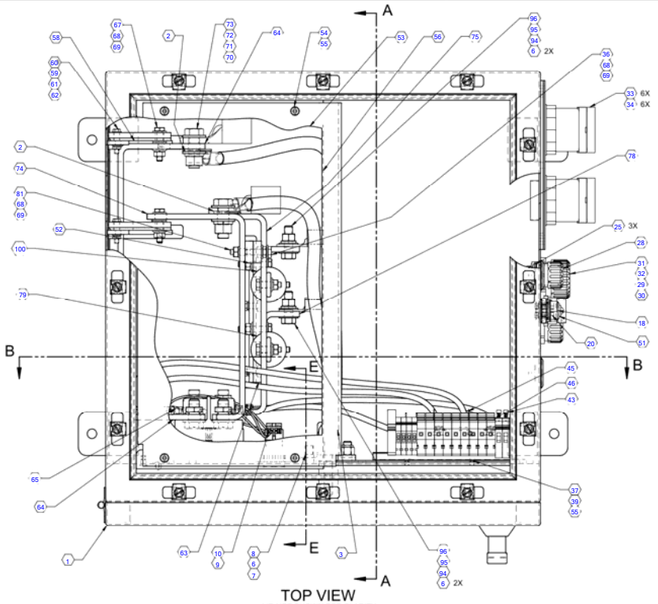
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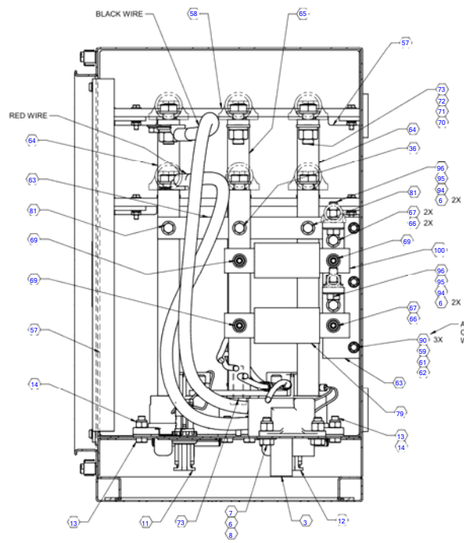
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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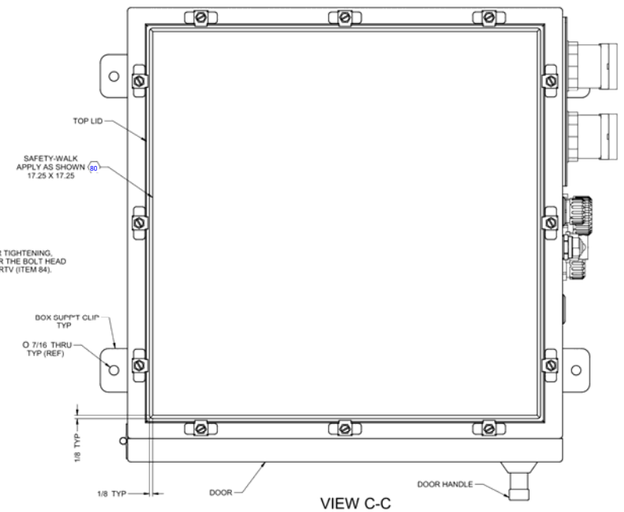
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ISOLATION & C0NTROL SWITCH BOX ASSEMBLY

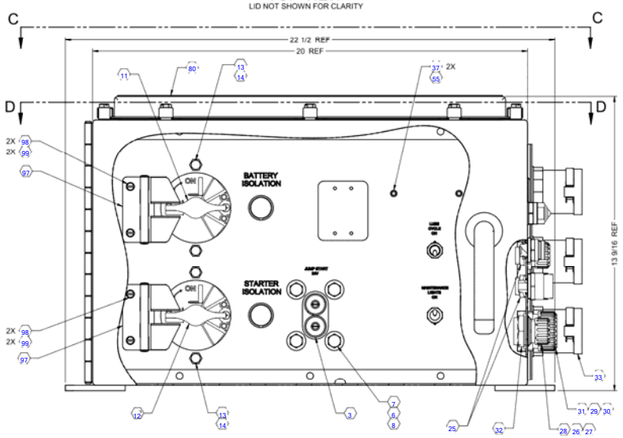


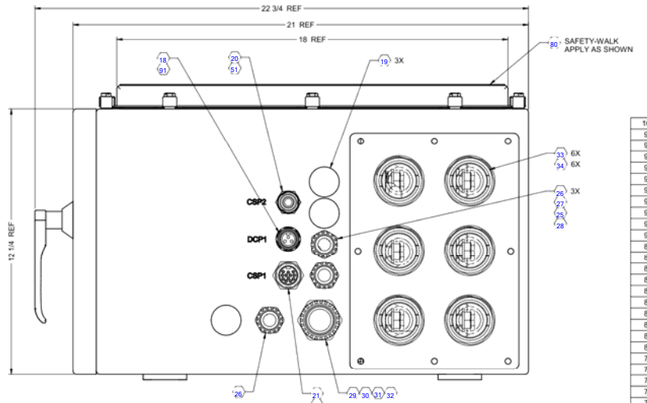


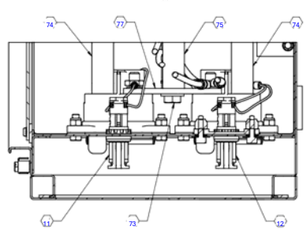
SECTION A-A



VIEW C-C
TOP VIEW WITH LID SHOWN







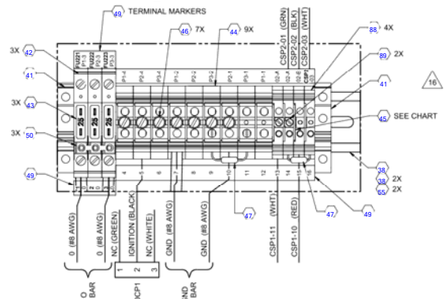
SECTION E-E

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

SEPARATION PLATE LOCATIONS BETWEEN TERMINAL BLOCK NUMBERS	FIXED BRIDGE LOCATION 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.

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	4106726	15	WASHER, SPLIT LOCK 1/4 SS
67	4245041	10	BOLT HX 1/4-20 UNC x 1-3/8 LG SS
66	4105722	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
40	4017907	2	WASHER LOCK SPR .190 .334 .047
39	4017734	1	NUTSERT 10-32 UNF
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	4240048	1	LIGHT ASSY IND W/YELLOW LED
9	4240049	1	LIGHT ASSY IND W/RED LED
8	4070091	4	NUT LOCK NYL INS .375 NC SS
7	2063952	4	BOLT HX .375 1.000 NC SSFT
6	4229233	8	WASHER FLAT .375 SS
5	4019423	4	WIRE TERM RT 16-14 1/2 INS
4	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

E DO NOT SCALE — DWG NO 4270117 — REV 16

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

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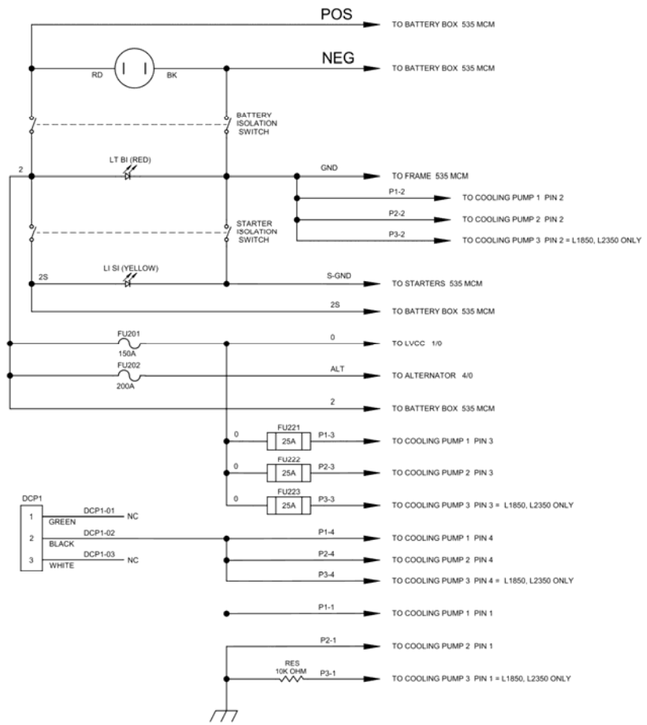
ISOLATION & C0NTROL SWITCH BOX ASSEMBLY

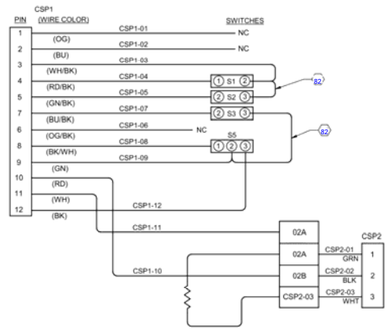
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ISOLATION & C0NTROL SWITCH BOX ASSEMBLY

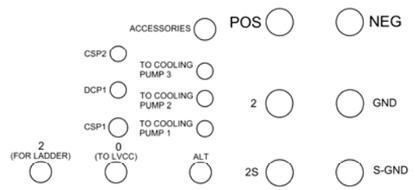
REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHD	CHK
	09	POS & NEG AT SCH. & DIAGRAM WAS + & -	NL12-1623	8-30-12	JFM	BS	BS
	10	NO CHANGE THIS SHEET	NL12-1640	10-3-12	JFM	BS	BS
C7	11	CHG'D SWH BOX SCH LABELS: ADDED ITEM 82;					
F,G2	11	ADDED ITEM 82 BUBBLE LOCATION AT SECT B-B	NL13-1297	5-29-13	JFM	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.

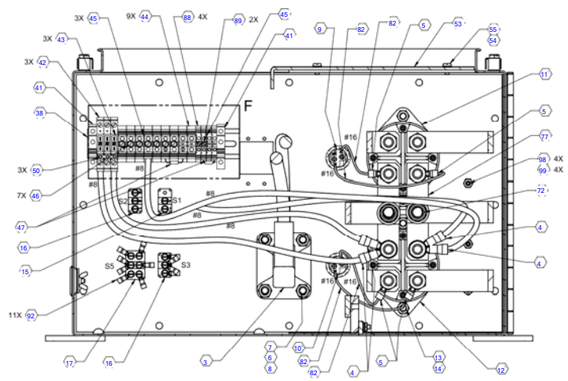




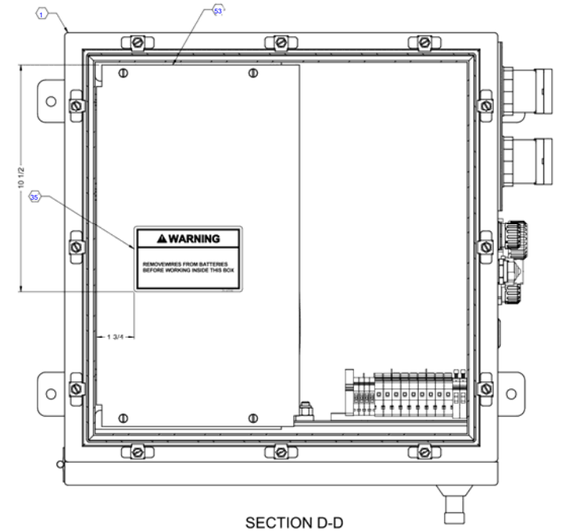
SWITCH BOX SCHEMATIC



CONDUIT DISTRIBUTION DIAGRAM



SECTION B-B
ROTATED 180°



SECTION D-D

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

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ISOLATION & C0NTROL SWITCH BOX ASSEMBLY

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ISOLATION & C0NTROL SWITCH BOX ASSEMBLY

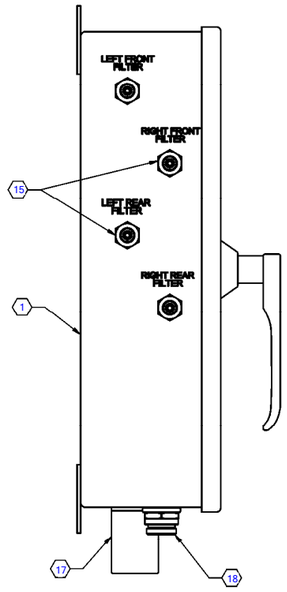
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4270117			ISOLATION & C0NTROL SWITCH BOX ASSEMBLY		4/18/16
1	R4270118	1		· SWITCH BOX		
	R4286053	1		· · DOOR, ETCHED - FRONT		4/18/16
	R4286067	1		· · HANDLE ASSEMBLY		4/18/16
	R4286069	1		· · COVER, TOP - WITH SLIP RESISTANT COVER		4/18/16
	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

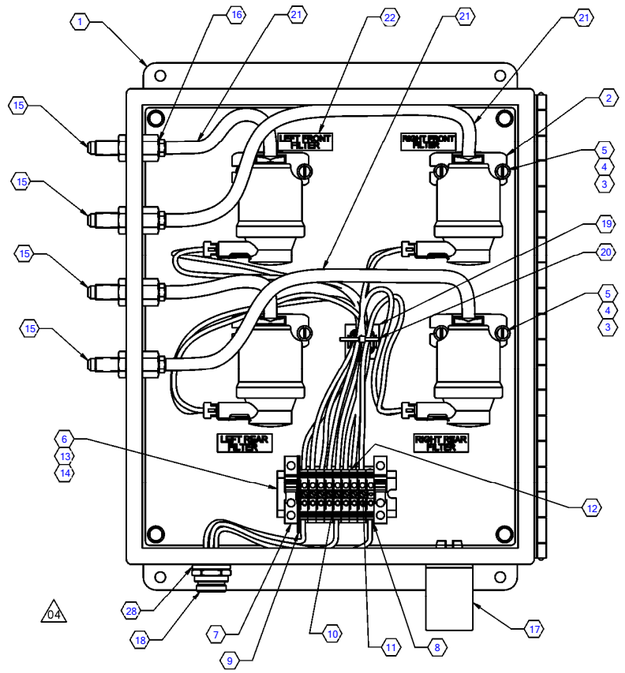
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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
56	R4270121	1		· INSULATE PANEL BTM		
57	R4270120	1		· INSULATE PANEL SIDE		
58	R4270129	2		· STANDOFF INSULATOR PANEL		
59	R4105720	22		· FLATWASHER, #10 - S.S.		
60	R4129596	8		· BOLT, #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		· BUSS BAR LONG		
65	R4270124	1		· BUSS BAR MIDDLE LONG		
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		· BUSS BAR SHORT		
75	R4270127	1		· BUSS BAR MIDDLE SHORT		
76	R4105641	2		· BOLT, 1/4"-20 X 1" - S.S.		
77	R4270125	2		· BUSS BAR CROSS OVER		
78	R4270128	2		· BUSS BAR SMALL END		
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

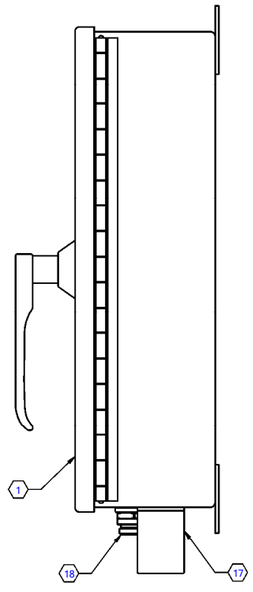
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ENGINE AIR RESTRICTION GAUGE BOX ASSEMBLY





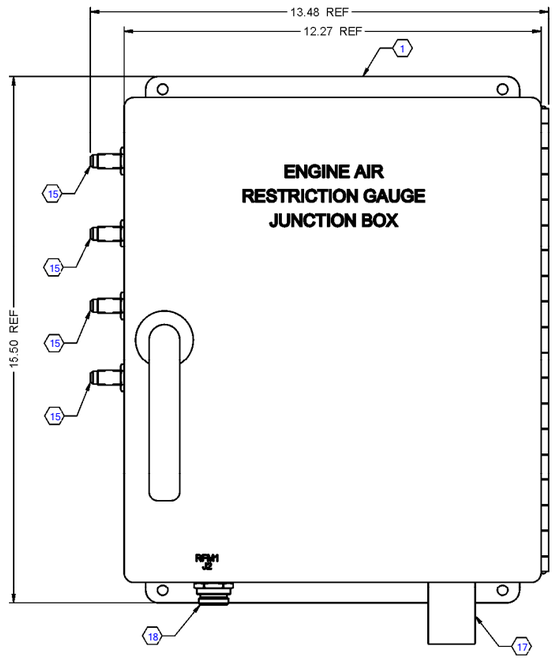
FRONT VIEW
WITH LID AND HANDLE REMOVED FOR CLARITY

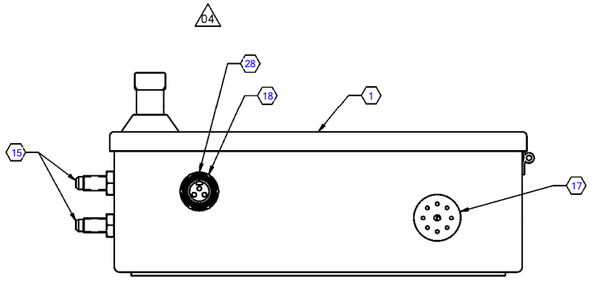


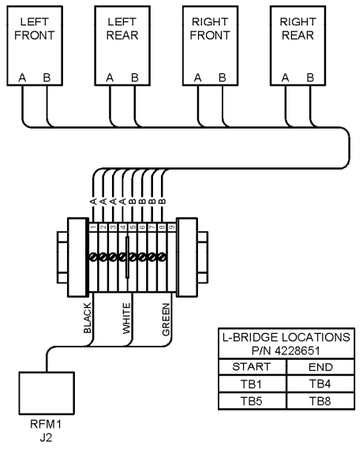
NOTE:
- REMOVE WIRES AND TERMINALS FROM 4235601 CONNECTOR.
- INSTALL 4230693 CABLE SEAL ONTO 4111900 #18 AWG WIRE.
- STRIP INSULATOR FROM WIRE.
- CRIMP 4229306 TERMINAL AND 4230693 CABLE SEAL ONTO WIRE.
- INSTALL NEW WIRE AND TERMINAL INTO 4235601 CONNECTOR.

TORQUE SPECIFICATIONS CHART					
ITEM NO.	LTI P/N	MIN TORQUE (lb in)	MAX TORQUE (lb in)	MIN TORQUE (Nm)	MAX TORQUE (Nm)
8	4227190	5.3	7.1	0.6	0.8

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







L-BRIDGE LOCATIONS P/N 4228651	
START	END
TB1	TB4
TB5	TB8

WIRING DIAGRAM

ITEM	PART NO.	QTY	DESCRIPTION
28	4046896	1	CONDUIT SEAL RING .500
27	4230693	8	CABLE SEAL PACKARD 12048086
26	4229306	8	TERMINAL PACKARD 12048074
25	4270204	8	FERRULE INSUL 18 AWG .315LG INSERT RED
24	4111900	10 FT	CABLE #18 AWG POLYOLEFIN SGL
23	4270205	3	FERRULE INSUL 16 AWG .315LG INSERT BLK
22	4268375	1	CODE SHEET ENG AIR RESTRICT GA BOX
21	4103992	3FT	AIR WASHER HOSE #3
20	4018725	1	CABLE TIE 4 INCH BENT TIP/BLK
19	4078040	1	MOUNT, CABLE TIE, ADHESIVE
18	4265237	1	RECEPTACLE 3 PIN MALE 3M
17	4268634	1	VENT DRAIN
16	4131750	4	TUBE ADAPTER, 1/8-27, 1/8 TUBE, BRASS
15	4267275	4	BULKHEAD 37 DEG FLR INTGL 1/8 NPT, 7/16 J
14	4105623	2	MSCR PH #10 NF .375 SS
13	4230763	2	WASHER, LK EXT #10 SS
12	4228700	1	MARKER DIN TERM BLK #1-10
11	4228651	8	L-BRIDGE - PHOENIX LB100-6BU DIN
10	4227295	1	PLATE SEPARATING PHOENIX TS-K
9	4228650	1	PARTITION PL PHOENIX ATP-UK
8	4227190	9	TERM BLOCK 1-2 TERM #10 AWG
7	4228648	2	BRACKET END E/UK
6	4240363	1	RAIL MNT 3.50 LG DIN
5	4105617	8	MSCR PH #8-32 UNC X .500 SS
4	4157833	8	WASHER LOCK #8 SS SPRING
3	4157834	8	WASHER FLAT .188 .44 .05 SS
2	4235601	4	AIR GAUGE
1	4268373	1	J-BOX WITH PANEL

04

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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	
CHK	
ENGR	
PROD ENGR	
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

ASSEMBLY, ENGINE AIR RESTRICTION GAUGE BOX

SIZE D | DO NOT SCALE | DWG NO. 4268374 | REV 04

SCALE 1/2 | EST WT 24.3 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
	R4268374		ENGINE AIR RESTRICTION GAUGE BOX ASSEMBLY		
1	R4268373	1	· JUNCTION BOX ASSEMBLY		
2	R4235601	4	· GAUGE, AIR RESTRICTION		
3	R4157834	8	· FLATWASHER, #8 - S.S.		
4	R4157833	8	· LOCKWASHER, #8 - S.S.		
5	R4105617	8	· SCREW, #8-32 X 1/2" - P.H., S.S.		
6	R4240363	1	· RAIL MOUNT, 3-1/2" DIN		
7	R4228648	2	· BRACKET, END		
8	R4227190	9	· TERMINAL BLOCK, 1-2 TERM. #10 AWG		
9	R4228650	1	· PARTITION PLATE		
10	R4227295	1	· PLATE, SEPARATING - TS-K		
11	R4228651	8	· L-BRIDGE, DIN		
12	R4228700	1	· MARKER, DIN - TERMINAL BLOCK, #1-10		
13	R4230763	2	· LOCKWASHER, #4 - EXTERNAL TOOTH		
14	R4105623	2	· SCREW, #10-32 X 3/8"		
15	R4267275	4	· ADAPTER, 1/8" FP X 7/16" MJ - BULKHEAD		
16	R4131750	4	· ADAPTER, 1/8" MP X #2 HOSE - BRASS		
17	R4268634	1	· BREATHER/DRAIN, S.S.		
18	R4265237	1	· RECEPTACLE, 3 PIN - MALE		
19	R4078040	1	· CABLE TIE MOUNT, ADHESIVE		
20	R4018725	1	· CABLE TIE, 4" - BENT TIP/BLACK		
21	R4103992	3	· HOSE, AIR - #4, 100 PSI - 50" ROLL		
22	R4268375	1	· CODE SHEET		
23	R4270205	3	· FERRULE, INSULATED - 16 AWG .315LG BLACK		
24	R4111900	10	· CABLE, #18 AWG 600V		
25	R4270204	8	· FERRULE, INSULATED - 18 AWG .315LG RED		
26	R4229306	8	· TERMINAL		
27	R4230693	8	· SEAL, CABLE		
28	R4046896	1	· RING, SEALING - 1/2" - CONDUIT		
		REF	DRAWING, ENGINE AIR RESTRICTION GAUGE BOX ASSEMBLY (R426837404)		

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

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HIGH VOLTAGE CABINET SCHEMATIC

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Title	Sheet
Table of Contents	1
Component Location / Part No.	1
24V Electrics Interface	1
Can Interface	1
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SR Motor 2 Right Front	3
SR Motor 3 Left Rear	4
SR Motor 4 Right Rear	4
Reference Information	
Wire Location Chart	5

NOTES:

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

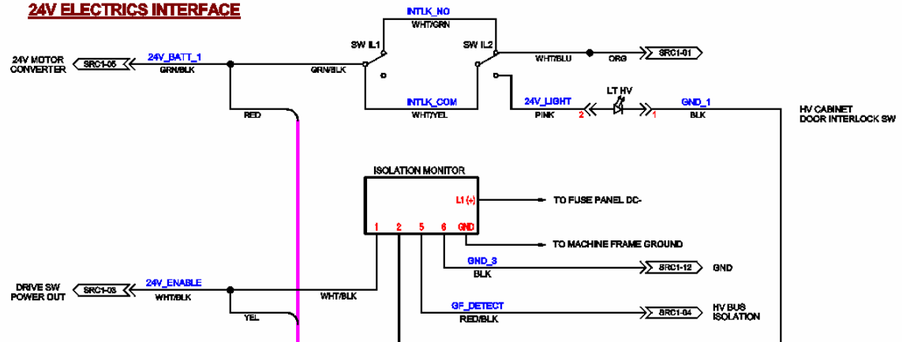
2) **CROSS REFERENCE**
   (01239)
   SHEET NO. — LINE NO. — COLUMN

3) **POWER FLOWS LEFT TO RIGHT**

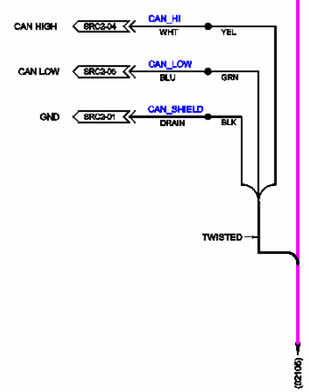
4) **MACHINE STATE:**
   - ALL LIGHTS OFF
   - FUSES NOT BLOWN
   - HV CABINET DOOR CLOSED

REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	APP
	00	RELEASE	NL11-1017	8-12	JS	BS

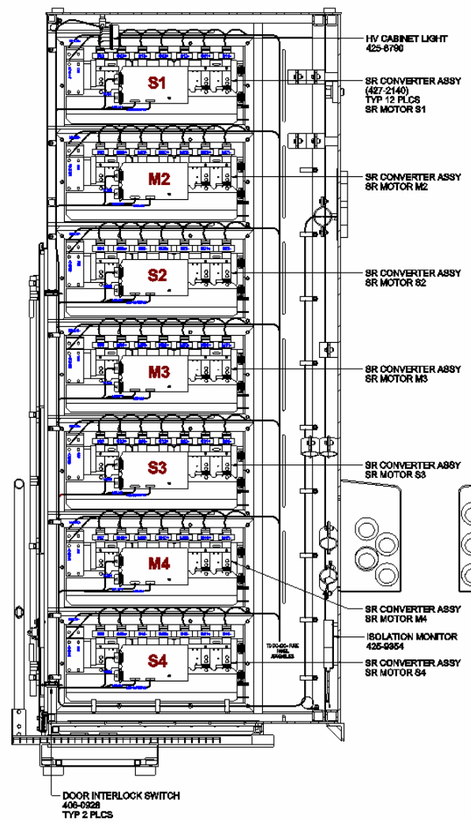
24V ELECTRICS INTERFACE



CAN INTERFACE

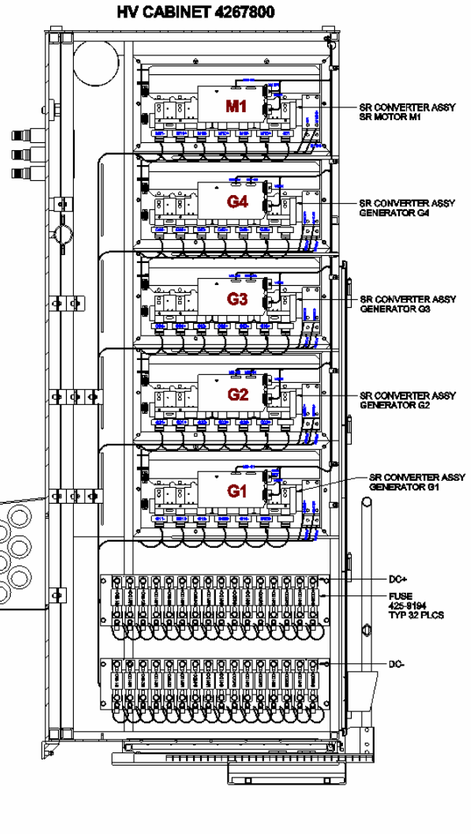


COMPONENT LOCATION / PART NO.



HV CABINET LEFT WALL

HV CABINET 4267800



HV CABINET RIGHT WALL

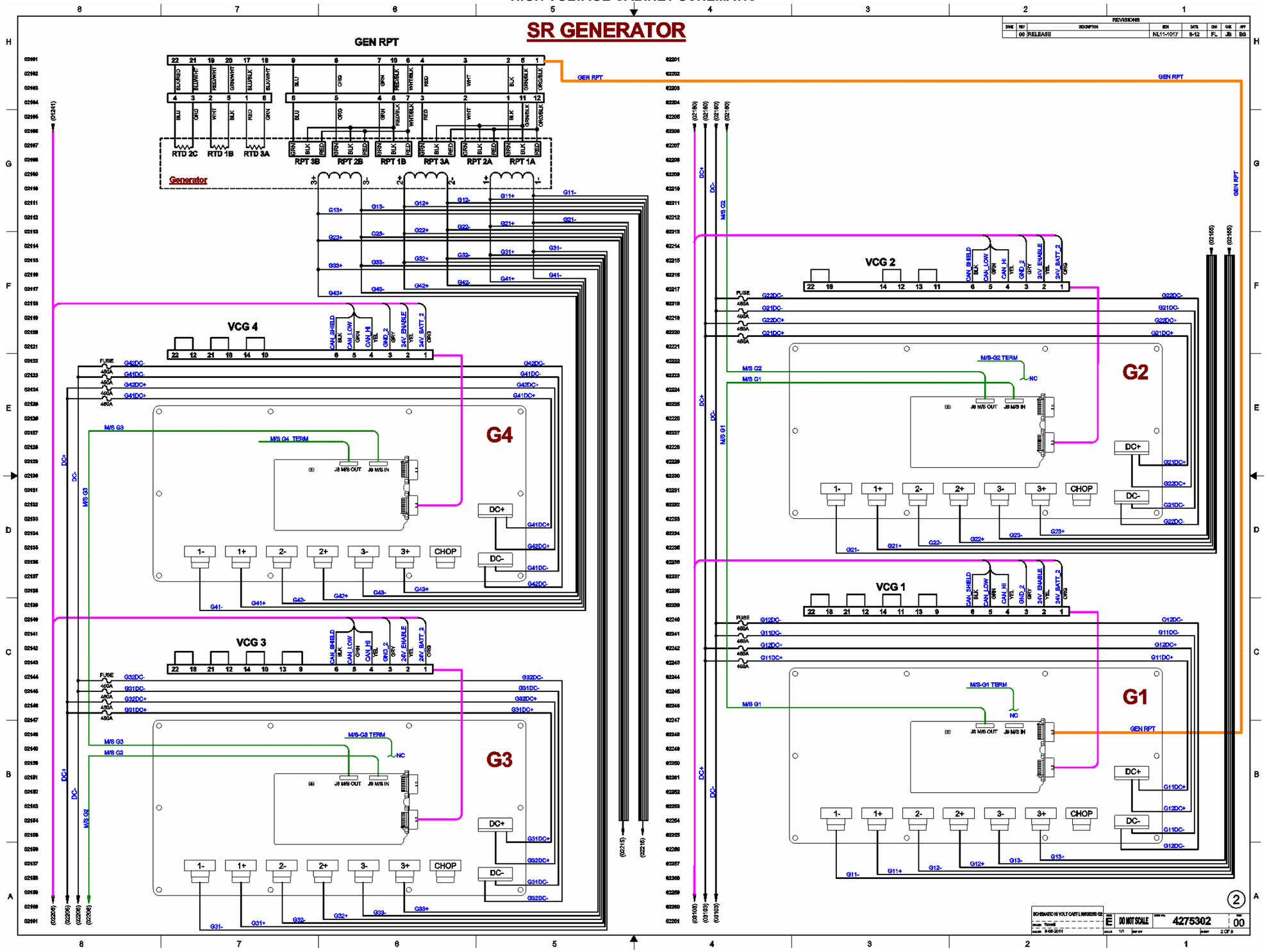
LeToumeau Technologies™			
SCHEMATIC HI VOLT CABT L1850/2350 G2			
E	DO NOT SCALE	4275302	00

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HIGH VOLTAGE CABINET SCHEMATIC

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SR GENERATOR

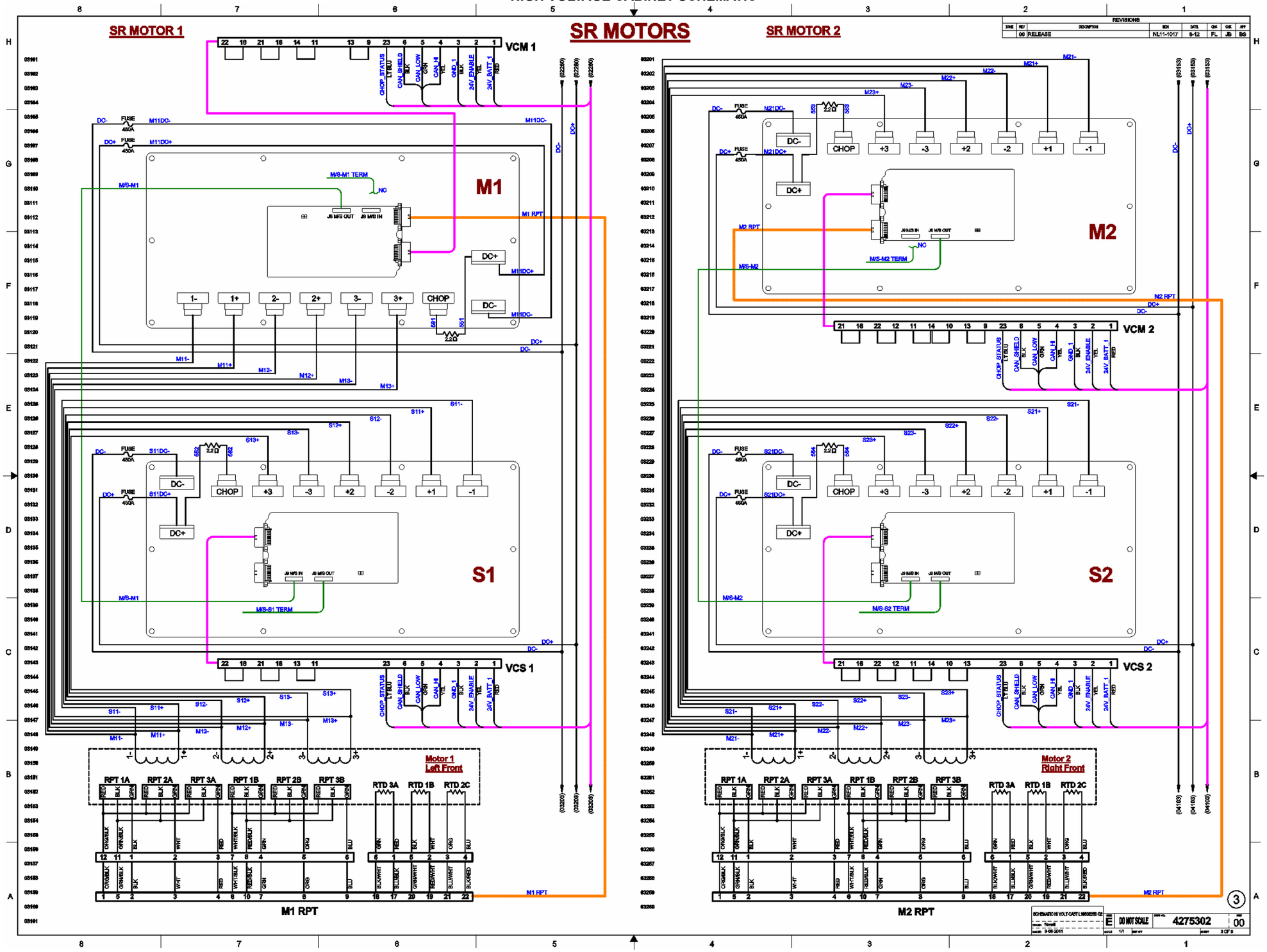


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SR MOTORS (CONT.)

SR MOTOR 3

SR MOTOR 4

M3

M4

S3

S4

VCM 3

VCM 4

VCS 3

VCS 4

Motor 3 Left Rear

Motor 4 Right Rear

M3 RPT

M4 RPT

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HIGH VOLTAGE CABINET SCHEMATIC

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REFERENCE INFORMATION

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	DWN	CHK	APP
	00	RELEASE	NL11-1017	9-12	FL	JB	BG

WIRE LOCATION CHART

WIRE CODE	LINE NO.
24V_BATT 1	01204,
	03103, 03146,
	03223, 03246,
	04123, 04146,
	04223, 04246
24V_BATT 2	01220,
	02121, 02143,
	02216, 02239
24V_ENABLE	01214,
	02121, 02143,
	02216, 02239,
	03103, 03146,
	03223, 03246,
	04123, 04146,
	04223, 04246
24V_LIGHT	01206
551	03120
552	03129
553	03205
554	03229
555	04105
556	04129
557	04205
558	04229
581	03120
582	03129
583	03205
584	03229
585	04105
586	04129
587	04205
588	04229
CAN_HI	01226,
	02121, 02143,
	02216, 02239,
	03103, 03146,
	03223, 03246,
	04123, 04146,
	04223, 04246
CAN_LOW	01228,
	02121, 02143,
	02216, 02239,
	03103, 03146,
	03223, 03246,
	04123, 04146,
	04223, 04246
CAN_SHIELD	01230,
	02121, 02143,
	02216, 02239,
	03103, 03146,
	03223, 03246,
	04123, 04146,
	04223, 04246
CHOP_STATUS	03103, 03146,
	03223, 03246,
	04123, 04146,
	04223, 04246
DC+	02151,02225,
	03107, 03208,
	03132, 03232,
	04108, 04132,
	04208, 04232
DC-	02152, 02226,
	03106, 03205,
	03129, 03229,
	04105, 04129,
	04205, 04229
GEN RPT	02102, 02202, 02248
GF_DETECT	01215

WIRE CODE	LINE NO.
GND_1	01206, 01222,
	03103, 03146,
	03223, 03246,
	04123, 04146,
	04223, 04246
GND_2	01217,
	02121, 02143,
	02216, 02239
GND_3	01213
G11-	02110, 02258
G11+	02111, 02258
G11DC-	02241, 02255
G11DC+	02243, 02252
G12-	02111, 02257
G12+	02111, 02257
G12DC-	02240, 02256
G12DC+	02242, 02253
G13-	02111, 02257
G13+	02111, 02257
G21-	02112, 02235
G21+	02113, 02235
G21DC-	02218, 02232
G21DC+	02220, 02229
G22-	02113, 02234
G22+	02113, 02234
G22DC-	02217, 02233
G22DC+	02219, 02230
G23-	02113, 02234
G23+	02113, 02234
G31-	02114, 02161
G31+	02114, 02161
G31DC-	02145, 02158
G31DC+	02146, 02155
G32-	02114, 02161
G32+	02115, 02161
G32DC-	02144, 02159
G32DC+	02146, 02157
G33-	02115, 02160
G33+	02115, 02160
G41-	02116, 02139
G41+	02116, 02139
G41DC-	02123, 02136
G41DC+	02124, 02133
G42-	02117, 02138
G42+	02117, 02138
G42DC-	02122, 02137
G42DC+	02124, 02135
G43-	02117, 02138
G43+	02117, 02138
INTLK_NO	01202
INTLK_COM	01206
M/S G1	02223, 02246
M/S G1 TERM	02245
M/S G2	02149, 02222
M/S G2 TERM	02222
M/S G3	02127, 02149
M/S G3 TERM	02148
M/S G4 TERM	02128
M/S M1	03110, 03138
M/S M1 TERM	03109
M/S S1 TERM	03139
M/S M2	03215, 03236
M/S M2 TERM	03125
M/S S2 TERM	03239
M/S M3	04116, 04138
M/S M3 TERM	04115
M/S S3 TERM	04139
M/S M4	04216, 04238
M/S M4 TERM	04215
M/S S4 TERM	04239

WIRE CODE	LINE NO.
M1 RPT	03112, 03159
M11-	03122, 03148
M11+	03122, 03148
M11DC-	03106, 03119
M11DC+	03107, 03116
M12-	03123, 03148
M12+	03123, 03148
M13-	03124, 03147
M13+	03124, 03147
M2 RPT	03213, 03218, 03259
M21-	03201, 03248
M21+	03201, 03248
M21DC-	03205
M21DC+	03208
M22-	03202, 03248
M22+	03202, 03248
M23-	03203, 03247
M23+	03203, 03247
M3 RPT	04113, 04118, 04159
M31-	04101, 04148
M31+	04101, 04148
M31DC-	04105
M31DC+	04108
M32-	04102, 04148
M32+	04102, 04148
M33-	04103, 04147
M33+	04103, 04147
M4 RPT	04213, 04218, 04259
M41-	04201, 04248
M41+	04201, 04248
M41DC-	04205
M41DC+	04208
M42-	04202, 04248
M42+	04202, 04248
M43-	04203, 04247
M43+	04203, 04247
S11-	03125, 03146
S11+	03125, 03146
S11DC-	03128
S11DC+	03131
S12-	03126, 03146
S12+	03126, 03146
S13-	03127, 03145
S13+	03127, 03145
S21-	03225, 03246
S21+	03225, 03246
S21DC-	03228
S21DC+	03231
S22-	03226, 03246
S22+	03226, 03246
S23-	03227, 03245
S23+	03227, 03245
S31-	04125, 04146
S31+	04125, 04146
S31DC-	04128
S31DC+	04131
S32-	04126, 04146
S32+	04126, 04146
S33-	04127, 04145
S33+	04127, 04145
S41-	04225, 04246
S41+	04225, 04246
S41DC-	04228
S41DC+	04231
S42-	04226, 04246
S42+	04226, 04246
S43-	04227, 04245
S43+	04227, 04245

WIRE CODE	LINE NO.
SRC1-01	01203
SRC1-03	01214
SRC1-04	01215
SRC1-05	01204
SRC1-06	01220
SRC1-10	01222
SRC1-11	01217
SRC1-12	01213
SRC2-01	01230
SRC2-04	01226
SRC2-05	01228

SCHEMATIC IN VOLT CAB'L MNGRNG GE	SIZE E	DO NOT SCALE	DWG NO. 4275302	REV 00
DRAWN Sewell				
DATE 9-06-2011	WEIGHT	SHEET 1/1	SCALE NONE	SHEET 5 OF 5

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HIGH VOLTAGE CABINET SCHEMATIC

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4275302		HIGH VOLTAGE CABINET SCHEMATIC		
			NOTE:		
			· NO ASSOCIATED PARTS LIST		

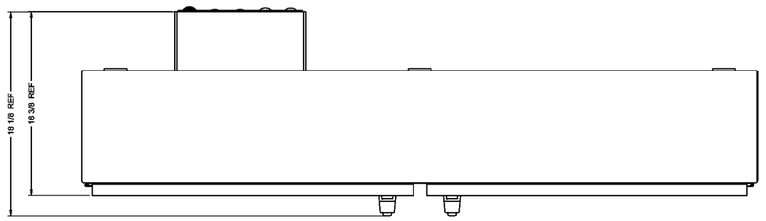
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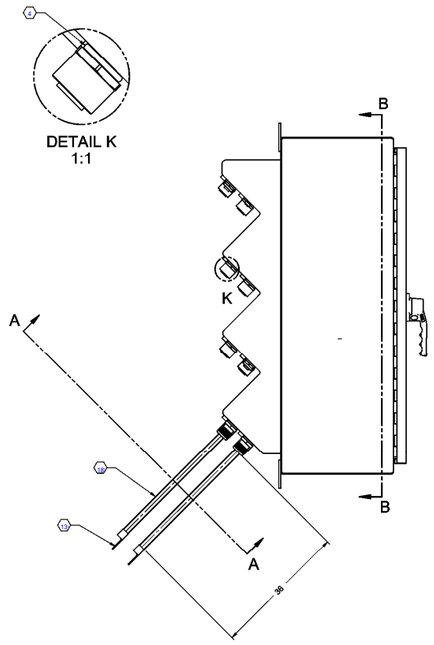
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

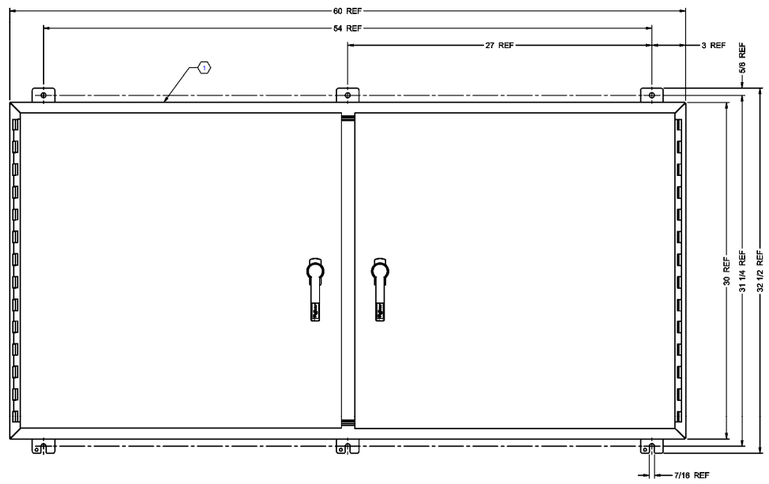
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LOW VOLTAGE CONTROL CABINET ASSEMBLY







ITEM	PART NO.	QTY	DESCRIPTION
29	4270070	.1	LOCTITE 242 REMOVABLE STRENGTH
28	4079983	20	CABLE TIE .0625 3.00 PLT3S-MO
27	4270207	26	FERRULE INSUL 12AWG .472LG INSERT GRAY
26	4270206	46	FERRULE INSUL 14AWG .315LG INSERT BLUE
25	4270205	263	FERRULE INSUL 16AWG .315LG INSERT BLK
24	4270202	12	FEIRRULE INS 22AWG .316LG PURPLE
23	0985113	2	NUT LOCK NYL INS .375 NC
22	0986144	1	CLAMP CABLE INSL 1.25 .406
21	0986146	1	CLAMP CABLE INSL 1.75 .406
20	0610970	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	111.5 FT	CABLE #12 AWG 1C XLP SHP 600V
16	4079532	120 FT	CABLE #14 AWG 1C EXANE DLO 600 VAC
15	4120401	100FT	CABLE #16 AWG EXANE DLO 600 VAC
14	4265214	1	CODE SHEET ASSY LVCC LINCS II
13	4066806	2	WIRE TERMINAL RT 1/O 3/8
11	0661785	2	CONDUIT LOCKNUT .50 NPT
10	4004868	2	CABLE CONN .50 NPT (.500 .625) WT
8	4254193	1	E-NET FEMALE CONNECTOR
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	4265198	1	ASSY PANEL LINCS 2 RELAY
2	4265945	1	ASSY PANEL LOW VOLTAGE LINCS II
1	4263793	1	STR LOW VOLTAGE CTRL CABINET

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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
L1602001

		DATE
DWN		
CHK		
ENGR		
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY LOW VOLTAGE CTRL CABINET

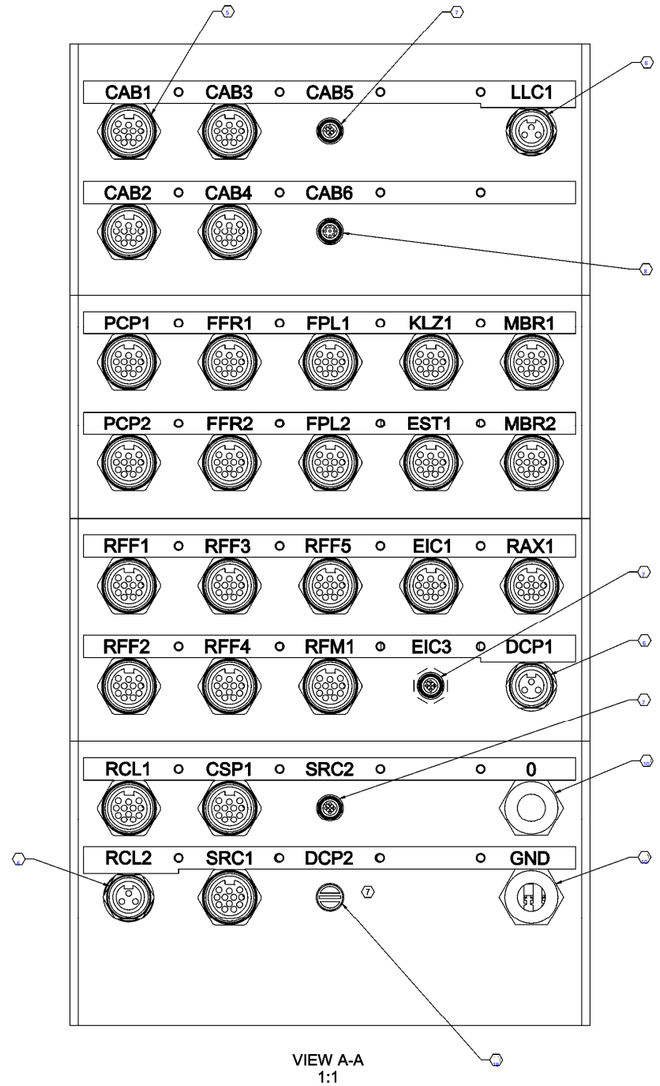
SIZE	DO NOT SCALE	DWG NO	REV
E		4258773	04

SCALE 1/4 | WT 300 LB | SHEET 1 OF 6

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LOW VOLTAGE CONTROL CABINET ASSEMBLY



VIEW A-A
1:1

CONNECTOR ABBREVIATIONS

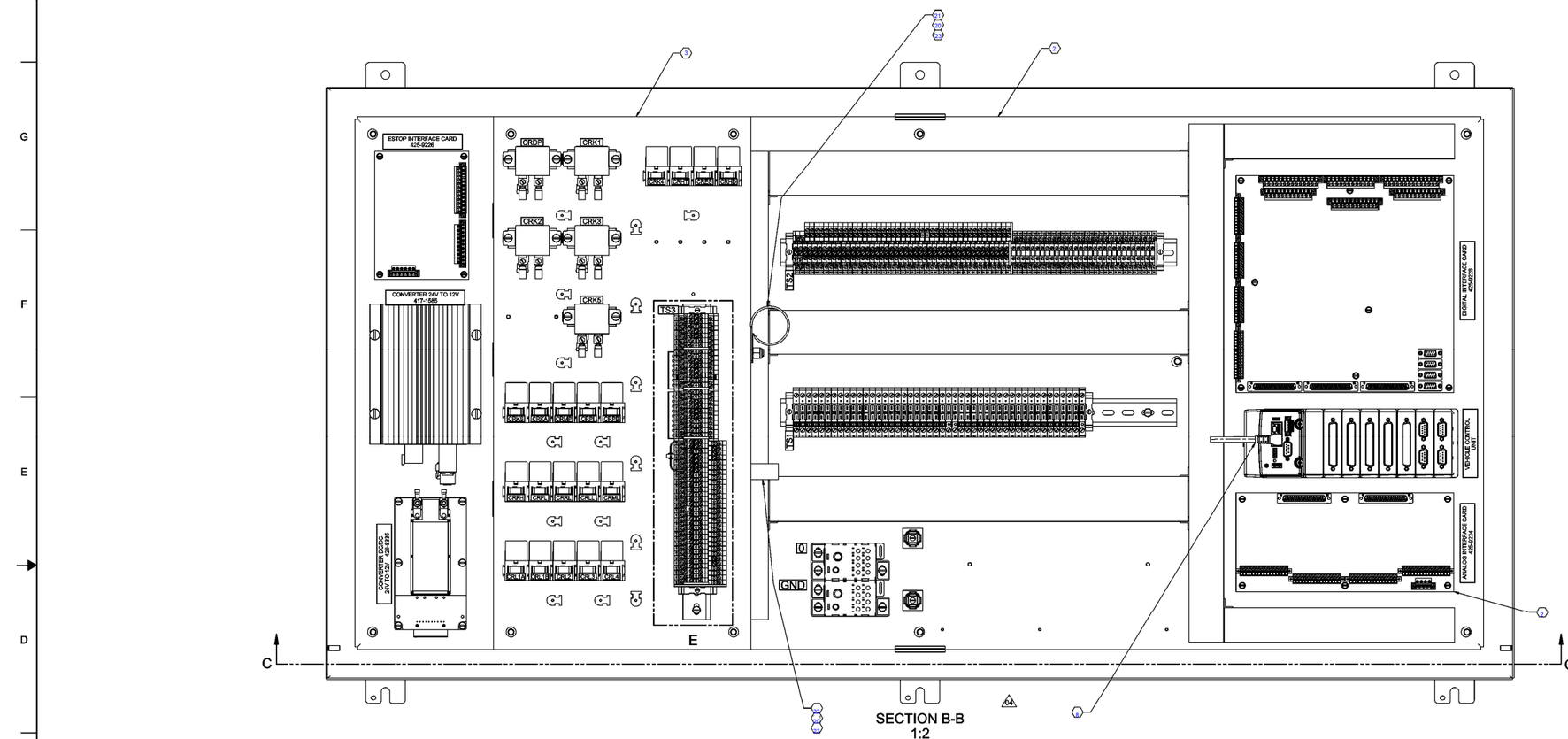
CAB - CAB
LLC - LADDER LIGHT CONTROL
PCP - PILOT CONTROL PANEL
FFR - FRONT FRAME
FPL - FRONT POLE LIGHT
MBR - MIRROR BAR
KLZ - KLENZ
EST - EMERGENCY STOP
RFF - REAR FRAME FORWARD
RFM - REAR FRAME MIDDLE
EIC- ENGINE INTERFACE CABNET
RAX - REAR AXLE
DCP - DRIVE COOLING PUMP
RCL - REAR COWL
CSP - CONTROL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

ASSY LOW VOLTAGE CTRL CABINET	SIZE E	DO NOT SCALE	DWG NO. 4258773	REV 04
DRAWN	SCALE	WEIGHT 265.2 lbm	SHEET 2 OF 6		

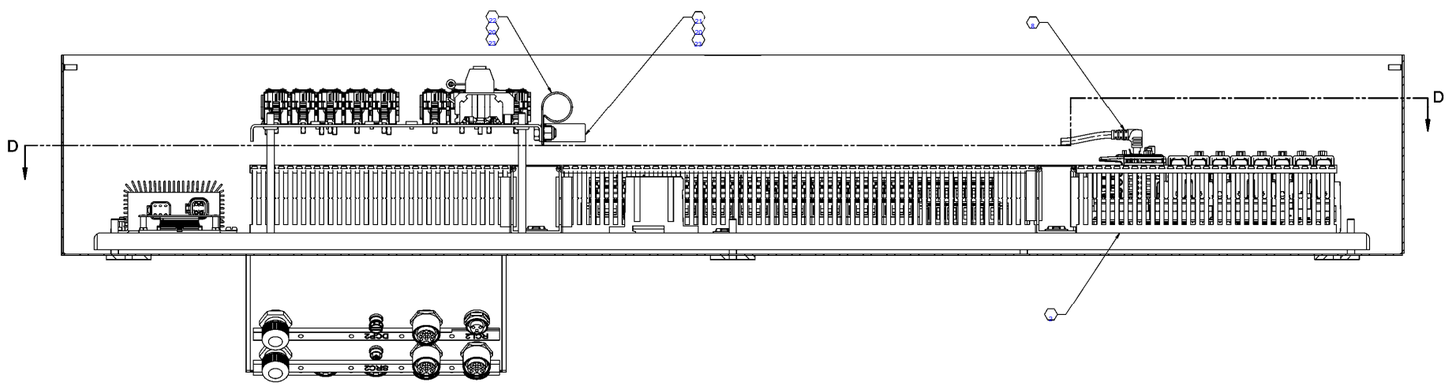
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LOW VOLTAGE CONTROL CABINET ASSEMBLY



SECTION B-B
1:2



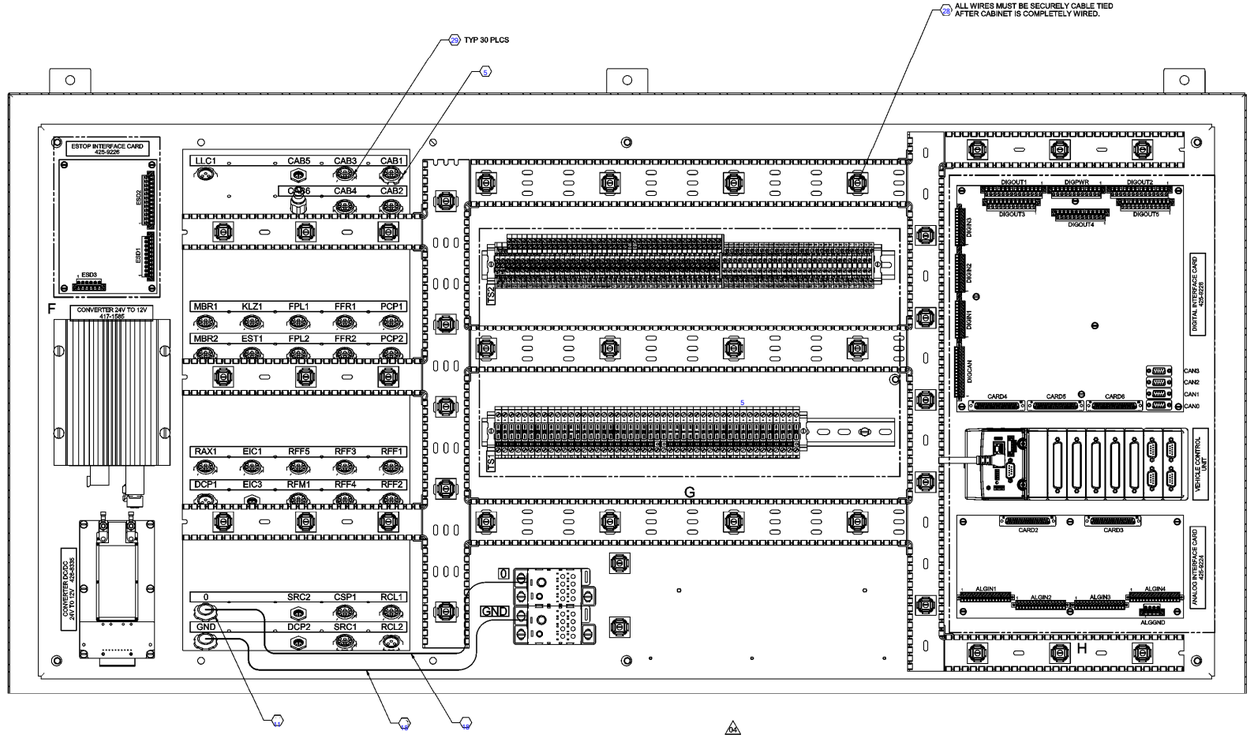
SECTION C-C
1:2

ASSY LOW VOLTAGE CTRL CABINET	SIZE E	DO NOT SCALE	DWG NO. 4258773	REV 04
DRAWN	SCALE	WT 265.2 lbm	SHEET 3 OF 6	
BRAND				

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LOW VOLTAGE CONTROL CABINET ASSEMBLY



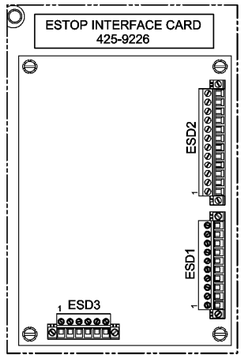
SECTION D-D
1:2
WIRING DUCT COVERS
ARE NOT SHOWN FOR CLARITY

ASSY LOW VOLTAGE CTRL CABINET		SIZE E	DO NOT SCALE	DWG NO 4258773	REV 04
DRAWN					
ISSUED		SCALE	WT: 265.2 lbm	SHEET 4 OF 8	

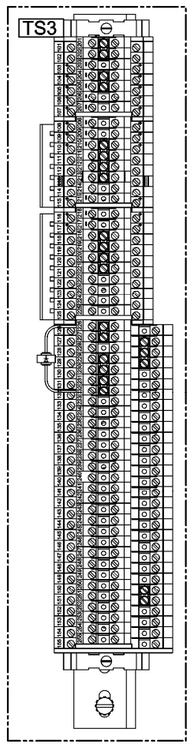
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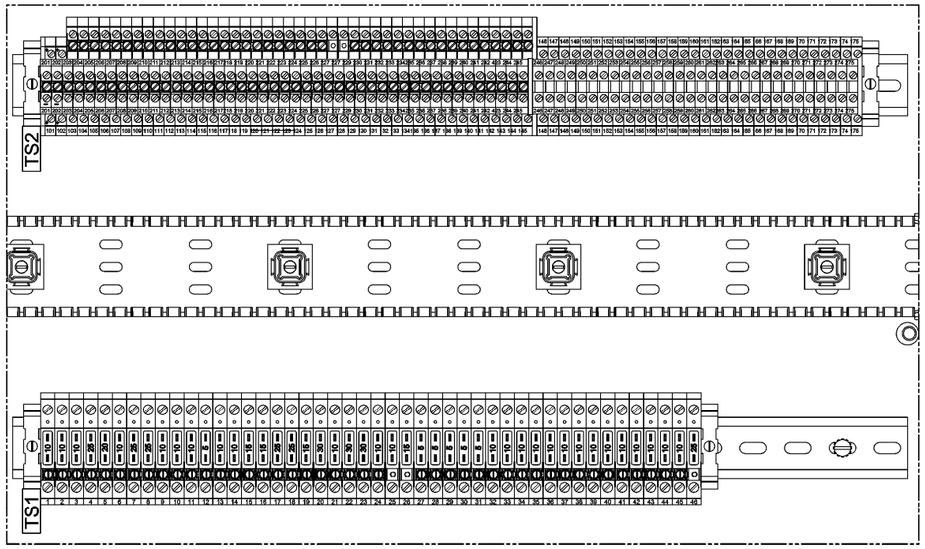
LOW VOLTAGE CONTROL CABINET ASSEMBLY



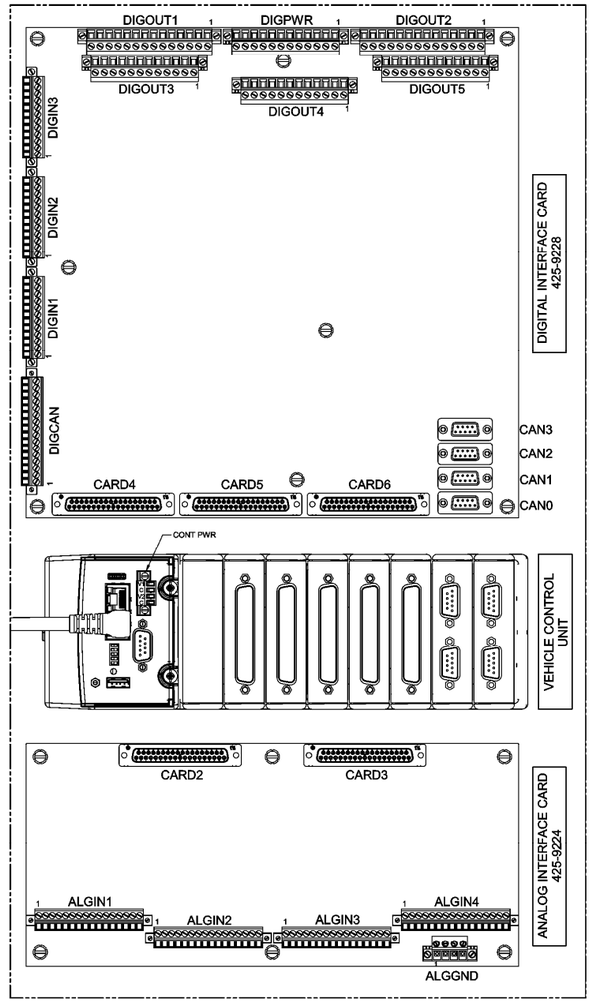
DETAIL F
1:1



DETAIL E
1:1



DETAIL G
1:1



DETAIL H
1:1

ASSY LOW VOLTAGE CTRL CABINET	E	DO NOT SCALE	4258773	04
	SCALE	WT 265.2 lbm	SHEET	5 OF 6

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LOW VOLTAGE CONTROL CABINET ASSEMBLY

NOTE:
ALL WIRE MUST BE RUN BEFORE INSTALLING THE RELAY PANEL (425-5198), THEN CONNECTED TO TS3 AFTER INSTALATION.

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

NOTE:
ALL WIRE GAGES FOR THESE CONNECTIONS ARE #16AWG EXCEPT NOTED.

REAR CONNECTORS

CONNECTOR-PIN	WIRE COLOR	DESTINATION
CAB1-01	ORN	DC/DC 12+
CAB1-02	BLU	TS2-146-R
CAB1-03	WHT/BLK	TS2-117-R
CAB1-04	RED/BLK	TS2-118-R
CAB1-05	GRN/BLK	TS1-28-R
CAB1-06	ORN/BLK	TS2-147-R
CAB1-07	BLU/BLK	NC
CAB1-08	BLK/WHT	NC
CAB1-09	GRN	DIGPWR-2
CAB1-10	RED	ALGIN1-2
CAB1-11	WHT	ALGIN1-1
CAB1-12	BLK	DIGPWR-1
CAB2-01	ORN	TS2-237-R
CAB2-02	BLU	TS2-109-L
CAB2-03	WHT/BLK	DIGOUT1-2
CAB2-04	RED/BLK	TS2-101-L
CAB2-05	GRN/BLK	DIGIN1-6
CAB2-06	ORN/BLK	TS2-148-R
CAB2-07	BLU/BLK	DIGOUT1-4
CAB2-08	BLK/WHT	DIGOUT1-3
CAB2-09	GRN	DIGOUT2-11
CAB2-10	RED	NC
CAB2-11	WHT	NC
CAB2-12	BLK	TS2-239-R
CAB3-01	ORN	TS3-250-R
CAB3-02	BLU	TS3-255-R
CAB3-03	WHT/BLK	TS2-113-R
CAB3-04	RED/BLK	TS2-115-R
CAB3-05	GRN/BLK	TS2-119-R
CAB3-06	ORN/BLK	TS2-114-R
CAB3-07	BLU/BLK	TS2-116-R
CAB3-08	BLK/WHT	TS2-120-R
CAB3-09	GRN	TS2-238-R
CAB3-10	RED	TS3-251-R
CAB3-11	WHT	TS3-253-R
CAB3-12	BLK	TS3-254-R
CAB4-01	ORN	TS2-208-R
CAB4-02	BLU	TS2-149-R
CAB4-03	WHT/BLK	TS2-209-R
CAB4-04	RED/BLK	TS2-150-R
CAB4-05	GRN/BLK	TS2-210-R
CAB4-06	ORN/BLK	TS2-151-R
CAB4-07	BLU/BLK	NC
CAB4-08	BLK/WHT	NC
CAB4-09	GRN	NC
CAB4-10	RED	NC
CAB4-11	WHT	NC
CAB4-12	BLK	NC
CAB5-01	BARE	DIGCAN-3
CAB5-02	RED	DIGCAN-4
CAB5-03	BLK	DIGCAN-3
CAB5-04	WHT	DIGCAN-2
CAB5-05	BLU	DIGCAN-1

#22AWG SEE NOTE BELOW

LLC1-01	GRN	TS2-127-R
LLC1-02	BLK	TS3-216-R
LLC1-03	WHT	TS2-128-R

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

CONNECTOR-PIN	WIRE COLOR	DESTINATION
PCP1-01	ORN	DIGOUT3-6
PCP1-02	BLU	DIGOUT3-8
PCP1-03	WHT/BLK	NC
PCP1-04	RED/BLK	ALGIN3-11
PCP1-05	GRN/BLK	NC
PCP1-06	ORN/BLK	ALGIN3-10
PCP1-07	BLU/BLK	DIGOUT3-6
PCP1-08	BLK/WHT	TS2-247-R
PCP1-09	GRN	DIGOUT3-7
PCP1-10	RED	TS2-215-R
PCP1-11	WHT	TS2-216-R
PCP1-12	BLK	TS2-248-R
PCP2-01	ORN	DIGOUT3-4
PCP2-02	BLU	ALGIN1-16
PCP2-03	WHT/BLK	DIGOUT3-3
PCP2-04	RED/BLK	DIGOUT3-12
PCP2-05	GRN/BLK	ALGIN3-9
PCP2-06	ORN/BLK	DIGOUT2-5
PCP2-07	BLU/BLK	ALGIN2-1
PCP2-08	BLK/WHT	TS2-249-R
PCP2-09	GRN	ALGIN2-2
PCP2-10	RED	TS2-217-R
PCP2-11	WHT	TS2-218-R
PCP2-12	BLK	TS2-250-R
FFR1-01	ORN	NC
FFR1-02	BLU	ALGIN1-11
FFR1-03	WHT/BLK	DIGOUT2-6
FFR1-04	RED/BLK	ALGIN1-12
FFR1-05	GRN/BLK	NC
FFR1-06	ORN/BLK	TS2-111-R
FFR1-07	BLU/BLK	TS2-144-R
FFR1-08	BLK/WHT	TS2-156-R
FFR1-09	GRN	TS2-131-R
FFR1-10	RED	TS2-211-R
FFR1-11	WHT	TS2-212-R
FFR1-12	BLK	TS2-157-R
FFR2-01	ORN	TS2-132-R
FFR2-02	BLU	ALGIN3-8
FFR2-03	WHT/BLK	ALGIN1-15
FFR2-04	RED/BLK	NC
FFR2-05	GRN/BLK	DIGIN1-11
FFR2-06	ORN/BLK	NC
FFR2-07	BLU/BLK	ALGIN1-13
FFR2-08	BLK/WHT	TS2-158-R
FFR2-09	GRN	ALGIN1-14
FFR2-10	RED	TS2-213-R
FFR2-11	WHT	TS2-214-R
FFR2-12	BLK	TS2-159-R
FPL1-01	ORN	TS2-135-R
FPL1-02	BLU	TS2-160-R
FPL1-03	WHT/BLK	TS2-136-R
FPL1-04	RED/BLK	TS2-161-R
FPL1-05	GRN/BLK	NC
FPL1-06	ORN/BLK	NC
FPL1-07	BLU/BLK	NC
FPL1-08	BLK/WHT	NC
FPL1-09	GRN	NC
FPL1-10	RED	NC
FPL1-11	WHT	NC
FPL1-12	BLK	NC
FPL2-01	ORN	TS2-138-R
FPL2-02	BLU	TS2-162-R
FPL2-03	WHT/BLK	TS2-139-R
FPL2-04	RED/BLK	TS2-163-R
FPL2-05	GRN/BLK	NC
FPL2-06	ORN/BLK	NC
FPL2-07	BLU/BLK	NC
FPL2-08	BLK/WHT	NC
FPL2-09	GRN	NC
FPL2-10	RED	NC
FPL2-11	WHT	NC
FPL2-12	BLK	NC
KLZ1-01	ORN	DIGOUT4-10
KLZ1-02	BLU	DIGOUT4-9
KLZ1-03	WHT/BLK	DIGOUT4-8
KLZ1-04	RED/BLK	DIGOUT4-7
KLZ1-05	GRN/BLK	DIGOUT4-6
KLZ1-06	ORN/BLK	DIGOUT4-5
KLZ1-07	BLU/BLK	DIGOUT4-4
KLZ1-08	BLK/WHT	TS2-164-R
KLZ1-09	GRN	ALGIN2-3
KLZ1-10	RED	TS2-236-R
KLZ1-11	WHT	TS2-236-R
KLZ1-12	BLK	TS2-165-R
EST1-01	ORN	ESD1-5
EST1-02	BLU	ESD1-3
EST1-03	WHT/BLK	ESD1-1
EST1-04	RED/BLK	ESD1-9
EST1-05	GRN/BLK	NC
EST1-06	ORN/BLK	NC
EST1-07	BLU/BLK	ESD1-4
EST1-08	BLK/WHT	TS2-154-R
EST1-09	GRN	ESD1-2
EST1-10	RED	TS2-104-L
EST1-11	WHT	TS2-105-L
EST1-12	BLK	TS2-155-R
MBR1-01	ORN	TS2-121-R
MBR1-02	BLU	TS2-166-R
MBR1-03	WHT/BLK	TS2-141-R
MBR1-04	RED/BLK	TS2-167-R
MBR1-05	GRN/BLK	TS2-142-R
MBR1-06	ORN/BLK	TS2-168-R
MBR1-07	BLU/BLK	TS2-143-R
MBR1-08	BLK/WHT	TS2-169-R
MBR1-09	GRN	DIGOUT3-1
MBR1-10	RED	TS2-170-R
MBR1-11	WHT	TS2-129-R
MBR1-12	BLK	TS2-171-R
MBR2-01	ORN	TS2-123-R
MBR2-02	BLU	TS2-172-R
MBR2-03	WHT/BLK	TS2-233-R
MBR2-04	RED/BLK	TS2-173-R
MBR2-05	GRN/BLK	TS2-204-R
MBR2-06	ORN/BLK	TS2-174-R
MBR2-07	BLU/BLK	TS2-205-R
MBR2-08	BLK/WHT	TS2-175-R
MBR2-09	GRN	DIGOUT3-2
MBR2-10	RED	TS2-246-R
MBR2-11	WHT	NC
MBR2-12	BLK	NC

CONNECTOR-PIN	WIRE COLOR	DESTINATION
RFF1-01	ORN	TS3-233-R
RFF1-02	BLU	NC
RFF1-03	WHT/BLK	ALGIN2-4
RFF1-04	RED/BLK	ALGIN2-5
RFF1-05	GRN/BLK	DIGIN3-11
RFF1-06	ORN/BLK	DIGOUT5-10
RFF1-07	BLU/BLK	ALGIN3-5
RFF1-08	BLK/WHT	TS2-259-R
RFF1-09	GRN	NC
RFF1-10	RED	TS2-219-R
RFF1-11	WHT	TS2-220-R
RFF1-12	BLK	TS2-260-R
RFF2-01	ORN	DIGOUT5-9
RFF2-02	BLU	TS2-133-R
RFF2-03	WHT/BLK	DIGIN2-2
RFF2-04	RED/BLK	DIGOUT5-1
RFF2-05	GRN/BLK	DIGOUT4-1
RFF2-06	ORN/BLK	DIGOUT5-8
RFF2-07	BLU/BLK	NC
RFF2-08	BLK/WHT	TS2-261-R
RFF2-09	GRN	NC
RFF2-10	RED	TS2-221-R
RFF2-11	WHT	TS2-222-R
RFF2-12	BLK	TS2-262-R
RFF3-01	ORN	ALGIN2-13
RFF3-02	BLU	ALGIN2-11
RFF3-03	WHT/BLK	ALGIN2-7
RFF3-04	RED/BLK	ALGIN2-12
RFF3-05	GRN/BLK	ALGIN2-6
RFF3-06	ORN/BLK	DIGOUT5-11
RFF3-07	BLU/BLK	ALGIN2-9
RFF3-08	BLK/WHT	TS2-263-R
RFF3-09	GRN	ALGIN2-8
RFF3-10	RED	TS2-223-R
RFF3-11	WHT	TS2-224-R
RFF3-12	BLK	TS2-264-R
RFF4-01	ORN	ALGIN2-16
RFF4-02	BLU	ALGIN3-1
RFF4-03	WHT/BLK	ALGIN2-10
RFF4-04	RED/BLK	ALGIN3-2
RFF4-05	GRN/BLK	DIGIN1-2
RFF4-06	ORN/BLK	DIGOUT1-7
RFF4-07	BLU/BLK	ALGIN2-15
RFF4-08	BLK/WHT	TS2-265-R
RFF4-09	GRN	ALGIN2-14
RFF4-10	RED	TS2-225-R
RFF4-11	WHT	TS2-226-R
RFF4-12	BLK	TS2-266-R
RFF5-01	ORN	ALGIN3-7
RFF5-02	BLU	ALGIN3-12
RFF5-03	WHT/BLK	NC
RFF5-04	RED/BLK	ALGIN3-13
RFF5-05	GRN/BLK	DIGOUT5-4
RFF5-06	ORN/BLK	NC
RFF5-07	BLU/BLK	DIGOUT2-13
RFF5-08	BLK/WHT	TS2-267-R
RFF5-09	GRN	DIGOUT2-12
RFF5-10	RED	TS2-227-R
RFF5-11	WHT	TS2-228-R
RFF5-12	BLK	TS2-268-R
RFM1-01	ORN	DIGIN2-3
RFM1-02	BLU	NC
RFM1-03	WHT/BLK	NC
RFM1-04	RED/BLK	ALGIN3-6
RFM1-05	GRN/BLK	ALGIN1-10
RFM1-06	ORN/BLK	DIGIN3-10
RFM1-07	BLU/BLK	DIGIN1-3
RFM1-08	BLK/WHT	TS2-269-R
RFM1-09	GRN	TS2-134-R
RFM1-10	RED	TS2-229-R
RFM1-11	WHT	TS2-230-R
RFM1-12	BLK	TS2-270-R
EIC1-01	ORN	DIGOUT5-7
EIC1-02	BLU	DIGIN3-12
EIC1-03	WHT/BLK	DIGIN3-5
EIC1-04	RED/BLK	NC
EIC1-05	GRN/BLK	DIGOUT5-5
EIC1-06	ORN/BLK	NC
EIC1-07	BLU/BLK	NC
EIC1-08	BLK/WHT	NC
EIC1-09	GRN	DIGIN3-9
EIC1-10	RED	DIGIN3-8
EIC1-11	WHT	TS1-45-R
EIC1-12	BLK	TS2-153-R
EIC3-01	BARE	DIGCAN-7
EIC3-02	RED	NC
EIC3-03	BLK	NC
EIC3-04	WHT	DIGCAN-6
EIC3-05	BLU	DIGCAN-5

#22AWG

RAX1-01	ORN	NC
RAX1-02	BLU	NC
RAX1-03	WHT/BLK	ALGIN3-4
RAX1-04	RED/BLK	NC
RAX1-05	GRN/BLK	ALGIN3-3
RAX1-06	ORN/BLK	NC
RAX1-07	BLU/BLK	DIGIN2-7
RAX1-08	BLK/WHT	TS2-251-R
RAX1-09	GRN	TS2-112-R
RAX1-10	RED	TS2-231-R
RAX1-11	WHT	TS2-232-R
RAX1-12	BLK	TS2-252-R
DCP1-01	GRN	NC
DCP1-02	BLK	TS2-242-L
DCP1-03	WHT	NC

NOTE:
RECEPTACLE #4264189 = #22AWG
RECEPTACLE #4265238 = #16AWG
RECEPTACLE #4265239 = #16AWG

INTERCONNECTIONS

CONNECTOR-PIN	WIRE COLOR	DESTINATION
RCL1-01	ORN	TS2-206-R
RCL1-02	BLU	TS2-253-R
RCL1-03	WHT/BLK	TS2-124-R
RCL1-04	RED/BLK	DIGOUT3-10
RCL1-05	GRN/BLK	TS2-254-R
RCL1-06	ORN/BLK	TS2-255-R
RCL1-07	BLU/BLK	TB2-240-R
RCL1-08	BLK/WHT	TS1-31-R
RCL1-09	GRN	TS2-256-R
RCL1-10	RED	TS2-122-R
RCL1-11	WHT	TS2-207-R
RCL1-12	BLK	TS2-257-R
RCL2-01	GRN	TS2-258-R
RCL2-02	BLK	TS2-130-R
RCL2-03	WHT	NC
CSP1-01	ORN	NC
CSP1-02	BLU	NC
CSP1-03	WHT/BLK	TS2-233-R
CSP1-04	RED/BLK	TS2-145-R
CSP1-05	GRN/BLK	DIGIN2-8
CSP1-06	ORN/BLK	NC
CSP1-07	BLU/BLK	TS3-217-R
CSP1-08	BLK/WHT	TS2-127-L
CSP1-09	GRN	TS1-12-R
CSP1-10	RED	DIGIN2-10
CSP1-11	WHT	TS2-234-R
CSP1-12	BLK	TS2-128-L
SRC1-01	ORN	DIGIN1-12
SRC1-02	BLU	NC
SRC1-03	WHT/BLK	TS3-139-R
SRC1-04	RED/BLK	ALGIN1-3
SRC1-06	ORN/BLK	T01-11-R
SRC1-06	ORN/BLK	TS3-229-R
SRC1-07	BLU/BLK	NC
SRC1-08	BLK/WHT	NC
SRC1-09	GRN	NC
SRC1-10	RED	TS2-271-R
SRC1-11	WHT	TS2-272-R
SRC1-12	BLK	TS2-273-R
SRC2-01	BARE	DIGCAN-11
SRC2-02	RED	NC
SRC2-03	BLK	NC
SRC2-04	WHT	DIGCAN-10
SRC2-05	BLU	DIGCAN-9

#22AWG

DCP2-01	BARE	DIGCAN-15
DCP2-02	RED	NC
DCP2-03	BLK	NC
DCP2-04	WHT	DIGCAN-14
DCP2-05	BLU	DIGCAN-13

#22AWG

CONNECTOR-PIN	WIRE GAUGE	WIRE CODE	FROM	TO
16	0AA	ESD3-6	TS3-101-R	
16	0AB	ESD3-5	TS3-102-R	
16	DO2	DIGOUT1-11	TS3-103-R	
16	DO4	DIGOUT1-9	TS3-218-R	
16	DO5	DIGOUT1-8	TS3-220-R	
16	DO7	DIGOUT1-6	TS3-222-R	
16	DO8	DIGOUT1-5	TS3-214-R	
16	DO17	DIGOUT2-10	TS3-223-R	
16	DO18	DIGOUT2-9	TS3-224-R	
16	DO19	DIGOUT2-8	TS3-225-R	
16	DO23	DIGOUT2-3	TS3-106-R	
16	DO24	DIGOUT2-1	TS3-107-R	
16	08D	DIGPWR-7	TS3-210-R	
16	08A	CONTPWR-V1	TS3-227-R	
14	0E1A	TS1-27-L	TS3-235-R	
14	0LA	TS1-29-L	TS3-244-R	
12	0VA	TS1-32-L	TS3-237-R	
12	0WA	TS1-40-L	TS3-238-R	
14	0B	TS1-2-R	TS3-127-R	
14	0C	TS1-3-R	TS3-142-R	
12	0E	TS1-5-R	TS3-136-R	
14	0E1	TS1-6-R	TS3-135-R	
14	0H	TS1-10-R	TS3-133-R	
14	0K	TS1-13-R	TS3-143-R	
14	0L	TS1-14-R	TS3-144-R	
14	0M	TS1-15-R	TS3-145-R	
14	0N	TS1-16-R	TS3-146-R	
14	0P	TS1-17-R	TS3-147-R	
14	0R	TS1-18-R	TS3-148-R	
12	0S	TS1-19-R	TS3-149-R	
12	0T	TS1-20-R	TS3-140-R	
12	0Z	TS1-21-R	TS3-150-R	
12	0V	T01-22-R	T03-137-R	
12	0W	TS1-23-R	TS3-138-R	
12	0Y	TS1-25-R	TS3-239-R	
14	0A	TS2-103-R	TS3-201-R	
14	0B	TS2-109-R	TS3-141-R	
14	13	TS2-111-L	TS3-242-R	
12	0EA	TS2-115-L	TS3-236-R	
12	0F	TS2-125-R	TS3-134-R	
14	0KA	TS2-129-L	TS3-243-R	
14	0MA	TS2-135-L	TS3-245-R	
14	0NA	TS2-138-L	TS3-246-R	
14	0PA	TS2-141-L	TS3-247-R	
12	GND	TS2-163-L	TS3-108-R	
12	GND	TS2-164-L	TS3-116-R	
14	3B	TS2-201-L	TS3-209-R	
14	0RA	TS2-203-L	TS3-248-R	
14	0SA	TS2-206-L	TS3-249-R	
12	07A	TS2-208-L	TS3-240-R	
12	0FA	TS2-241-L	TS3-234-R	

LEGEND

CAB1-01
CONNECTOR
PIN #

DIGIN1-1
INTERFACE CARD
DIG: DIGITAL INTERFACE (425-9228)
ALG: ANALOG INTERFACE (425-9224)
ESD: ESTOP INTERFACE (425-9226)

CONNECTION TYPE
IN: INPUT
OUT: OUTPUT
CAN: CONTROLER AREA NETWORK
PWR: POWER
GND: GROUND

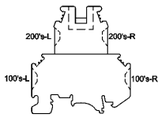
CONECTOR #
PIN #

TS3-205-R
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 LEVE TERMINAL BLOCK
100's: LOWER LEVEL TERMINAL BLOCK
200's: UPPER LEVEL TERMINAL BLOCK

SIDE
L: LEFT HAND SIDE
R: RIGHT HAND SIDE

NC: NO CONNECTION
CONV: CONVERTER 24V TO 12V (417-1585)
CONTPWR: MACHINE CONTROLLER POWER (425-8753)



TERMINAL BLOCK LAYOUT

TORQUE SPECIFICATIONS CHART

ITEM NO.	LTI P/N	MIN TORQUE (lb in)	MAX TORQUE (lb in)	MIN TORQUE (Nm)	MAX TORQUE (Nm)
	4264181	5.3	7.1	0.6	0.8
	4264180	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
	4256207	1.9	2.2	0.22	0.25
	4259260	1.9	2.2	0.22	0.25
	4220488	4.4	5.3	0.5	0.6
	4258171	4.4	5.3	0.5	0.6
	4220490	4.4	5.3	0.5	0.6
	4220491	4.4	5.3	0.5	0.6
	4220487	4.4	5.3	0.5	0.6

ASSY LOW VOLTAGE CTRL CABINET	SIZE E	DO NOT SCALE	DWG NO. 4258773	REV 04
DRAWN				
APVED	SCALE	WT 265.2 lbm	SHEET 6 OF 6	

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LOW VOLTAGE CONTROL CABINET ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4258773		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	R4260945	1	· PANEL ASSEMBLY, LOW VOLTAGE LINCS II		
3	R4265198	1	· PANEL ASSEMBLY, LINCS II RELAY		
4	R4046896	30	· RING, SEALING - 1/2" - CONDUIT		4/20/11
5	R4265239	25	· RECEPTACLE, 12 PIN - FEMALE		
6	R4265238	3	· RECEPTACLE, 3 PIN - FEMALE		
7	R4264189	4	· RECEPTACLE, CAN - FEMALE		
8	R4264193	1	· RECEPTACLE, ETHERNET - FEMALE		
9	N.P.N.		· NOT USED		
10	R4004688	2	· CONNECTOR, CABLE - 1/2"		
11	R0861785	2	· LOCKNUT, CONDUIT - 1/2"		
12	N.P.N.		· NOT USED		
13	R4066606	2	· TERMINAL, WIRE - #1/0, 3/8" HOLE		4/20/11
14	R4265214	1	· CODE SHEET ASSEMBLY, LVCC LINCS II		
15	R4120401	100	· CABLE, #16 AWG 600V		
16	R4079832	120	· CABLE, #14 AWG 600V		
17	R4111903	50	· CABLE, #12 AWG 2000V		
18	R4111910	12	· CABLE, 1/0 AWG		4/20/11
19	R4255434	1	· CAP FOR M12 CONNECTOR BREAKOUT BOX		
20	R0810970	2	· BOLT, 3/8"-16 X 3/4"		4/20/11
21	R0986146	1	· CLAMP, CABLE - INSULATED, 1-3/4"		4/20/11
22	R0986144	1	· CLAMP, CABLE - INSULATED, 1-1/4"		4/20/11
23	R0985113	2	· LOCKNUT, 3/8"-16 - NYLON		4/20/11
24	R4270202	12	· FERRULE, 22 AWG - PURPLE		4/20/11
25	R4270205	263	· FERRULE, INSULATED - 16 AWG .315LG BLACK		4/20/11
26	R4270206	46	· FERRULE, INSULATED - BLUE		4/20/11
27	R4270207	26	· FERRULE, 12 AWG - GRAY		4/20/11
28	R4079983	20	· CABLE TIE, 1/16" X 3"		6/21/11
29	R4270070	REF	· LOCTITE 242		6/21/11
	R4258773	REF	LOW VOLTAGE CONTROL CABINET ASSEMBLY		6/21/11

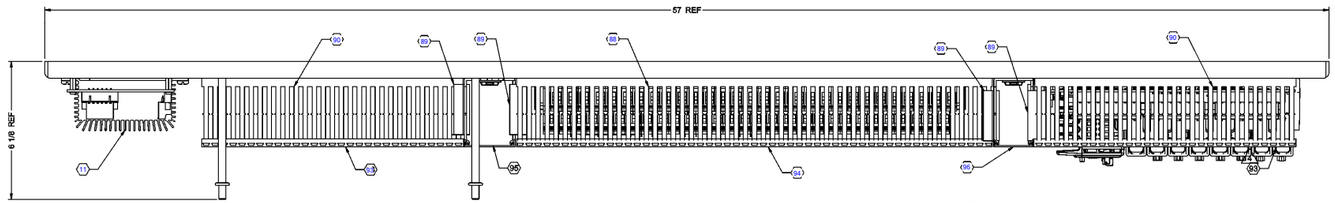
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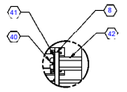
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

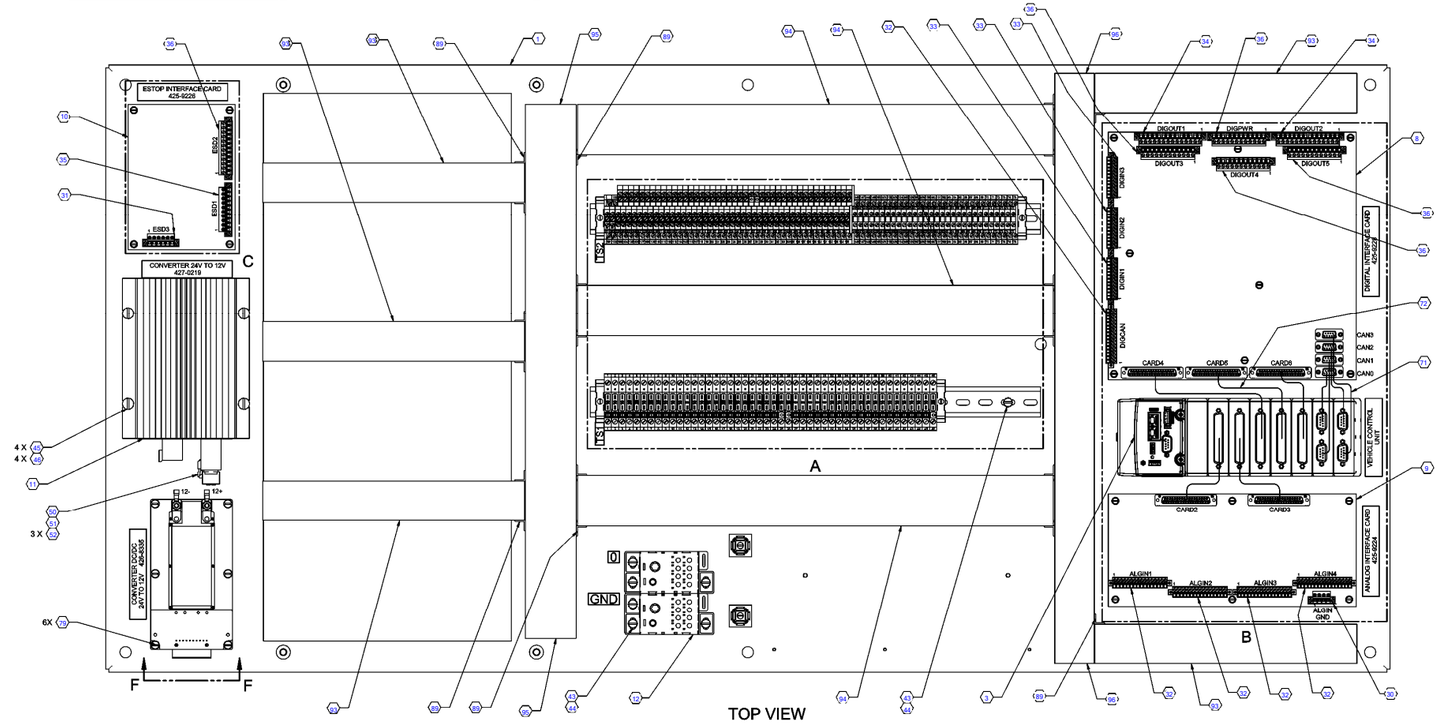
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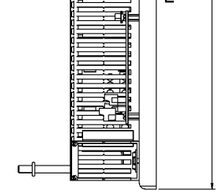
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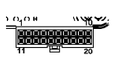
LOW VOLTAGE PANEL ASSEMBLY, LINCS II

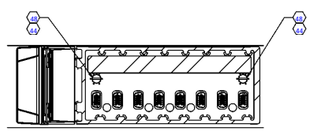












ITEM	PART NO.	QTY	DESCRIPTION
98	4274336	1	COVER WIRING DUCT 1.5W 28 1/4
95	4274337	1	COVER WIRING DUCT 2.0W 23 3/4
94	4274338	3	COVER WIRING DUCT 2.0W 21 1/8
93	4274334	5	COVER WIRING DUCT 1.5W 11 5/8
92	4274332	1	DUCT WIRING 2.0W X 3 X 23 3/4
91	4274331	1	DUCT WIRING 1.5W X 3 X 28 1/4
90	4274327	5	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	5	FERRULE INSUL 10AWG .472LG INSERT YEL
86	4270208	30	FERRULE INSUL 16AWG .315LG INSERT BLK
85	4270206	36	FERRULE INSUL 14AWG .315LG INSERT BLUE
84	4270207	15	FERRULE INSUL 12AWG .472LG INSERT GRAY
83	4270204	2	FERRULE INSUL 18AWG .315LG INSERT RED
82	4266275	1	TERMINAL MARKERS LOW VOLTAGE
81	4019418	2	WIRE TERM RT 16-14 #10 ING (BLU)
80	4111900	12.0 FT	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	38 FT	CABLE #10 AWG 1C XLP SHP 600V
75	4079832	10 FT	CABLE #14 AWG 1C EXANE DLO 600 VAC
74	4111903	111.5 FT	CABLE #12 AWG 1C XLP SHP 600V
73	4120401	120 FT	CABLE #16 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	2	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	2	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	4265215	1	CODE SHEET LVCC PANEL LINCS II
50	4166227	2	MSCR #10 1.000 NF SS
49	0506807	4	WASHER LOCK EXT .256 .51 .03
48	0222286	4	MSCR PH .250 .625 NC
47	0182634	14	WASHER LOCK EXT .195 .41 .03
46	4010283	12	MSCR PH #10 .500 NF
45	4270211	18	STDOFF THD M/F 1/4HX #6NC 1/2LG SS
44	4010914	18	WASHER EXT STAR #6
43	0260712	18	MSCR PH #6-32 UNC-2A x 7/16 LG
42	4266286	86	BRIDGE FIXED PHOENIX FB10-6
41	4012067	39	MSCR FH #6 .375 NC
40	4078040	39	MOUNT, CABLE TIE, ADHESIVE
39	4220491	5	TERMINAL PLUG 12 POS 5.08 PITCH
38	4220490	1	TERMINAL PLUG 10 POS
37	4259171	2	TERMINAL PLUG 14 POS 5.08 PITCH
36	4259260	3	TERMINAL PLUG 12 POS 3.81 PITCH
35	4259207	5	TERMINAL PLUG 16 POS 3.81 PITCH
34	4220488	1	TERMINAL PLUG 6 POS
33	4220487	1	TERMINAL PLUG 4 POS
32	4265747	3	FUSE-30A 32V BLADE TYPE
31	4265746	6	FUSE-25A 32V BLADE TYPE
30	4265745	1	FUSE-20A 32V BLADE TYPE
29	4265744	4	FUSE-15A 32V BLADE TYPE
28	4265743	26	FUSE-10A 32V BLADE TYPE
27	4265742	6	FUSE-5A 32V BLADE TYPE
26	4228666	45	PLATE SEPARATING PHOENIX TS-KK3
25	4264185	43	BRIDGE FIXED PHOENIX 02 03 36 3
24	4264183	30	TERM BLK GND PHOENIX 27 74 21 1
23	4264184	1	TERM BLK COVER PHOENIX 27 71 02 3
22	4264180	43	TERM BLK GRAY PHOENIX 27 71 14 6
21	4264181	2	TERM BLK DIODE PHOENIX
20	4264479	1	SPCR PLT DBL TERM BLK 2770794
19	4264182	46	TERM BLK FUSE PHOENIX 30 01 93 8
18	4265756	4	BRACKET END PHOENIX 08 00 88 6
17	4265740	2	RAIL MOUNTING 20.00 LG DIN
16	4253985	2	POWER DISTR BLOCK COPPER 310A
15	4270219	1	CONVERTER, 24V TO 12V, 30A
14	4259228	1	CARD ASSEMBLY ESTOP INTERFACE CARD
13	4259224	1	CARD ASSEMBLY ANALOG INTERFACE CARD
12	4259228	1	CARD ASSEMBLY DIGITAL CARD
11	4258752	2	VCU, 2 PORT CAN MODULE
10	4258751	3	VCU 32CH TTL DIGITAL I/O MODULE
9	4259750	2	VCU ANALOG INPUT MODULE
8	4260947	1	VCU BLANK MODULE
7	4268933	1	VCU PROGRAMMED
6	4258754	1	VCU 8 SLOT 3M GATE CHASSIS
5	4260944	1	PANEL LOW VOLTAGE LINCS II
ITEM	PART NO.	QTY	DESCRIPTION

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1900.00.

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

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO
426-8773

DWN		DATE
CHK		
ENGR		
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

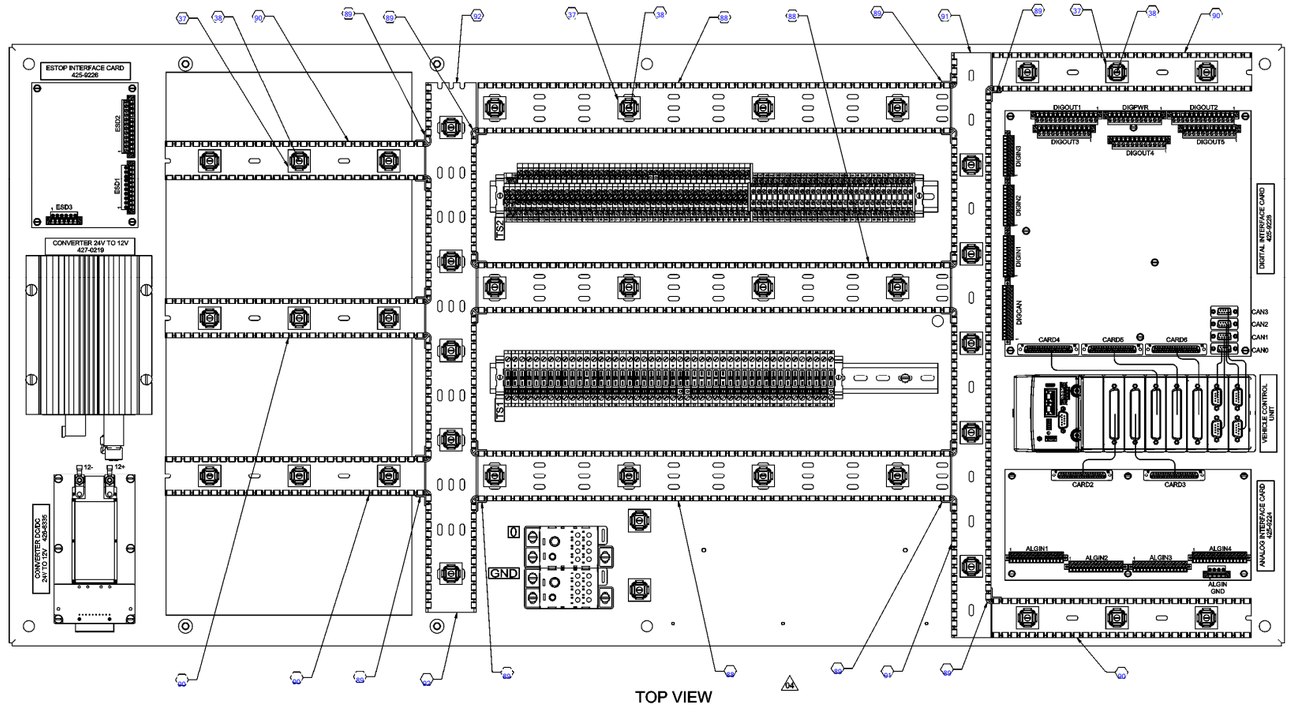
ASSY PANEL LOW VOLTAGE LINCS II

REV	DWG NO.	REV
E	4260945	04
DO NOT SCALE		
SCALE 1/4	WGT WT 100.1 lbm	SHEET 1 OF 4

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LOW VOLTAGE PANEL ASSEMBLY, LINCS II



TOP VIEW

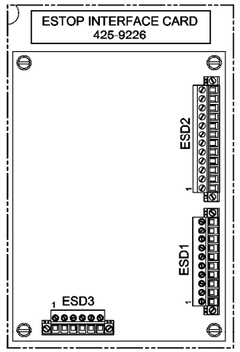
CONDUIT LAYOUT
WITH COVERS OMITTED
FOR CLARITY

ASSY PANEL LOW VOLTAGE LINCS II	SIZE E	DO NOT SCALE	DWG NO 4260945	REV 04
	SCALE 1/4	WT -	SHEET 2 OF 4	

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LOW VOLTAGE PANEL ASSEMBLY, LINCS II

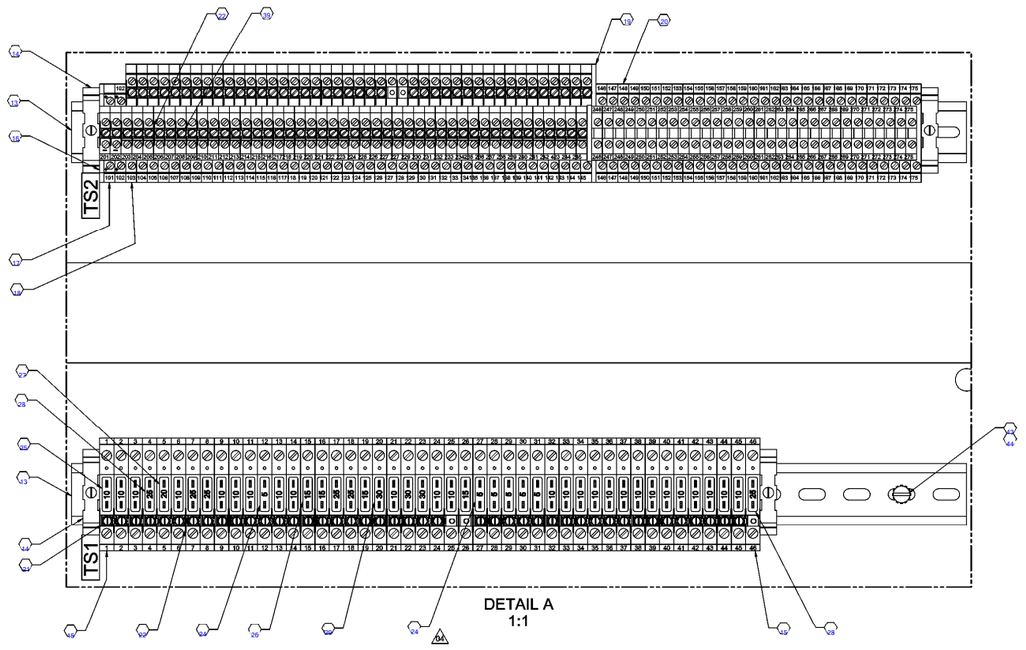


DETAIL C
1:1

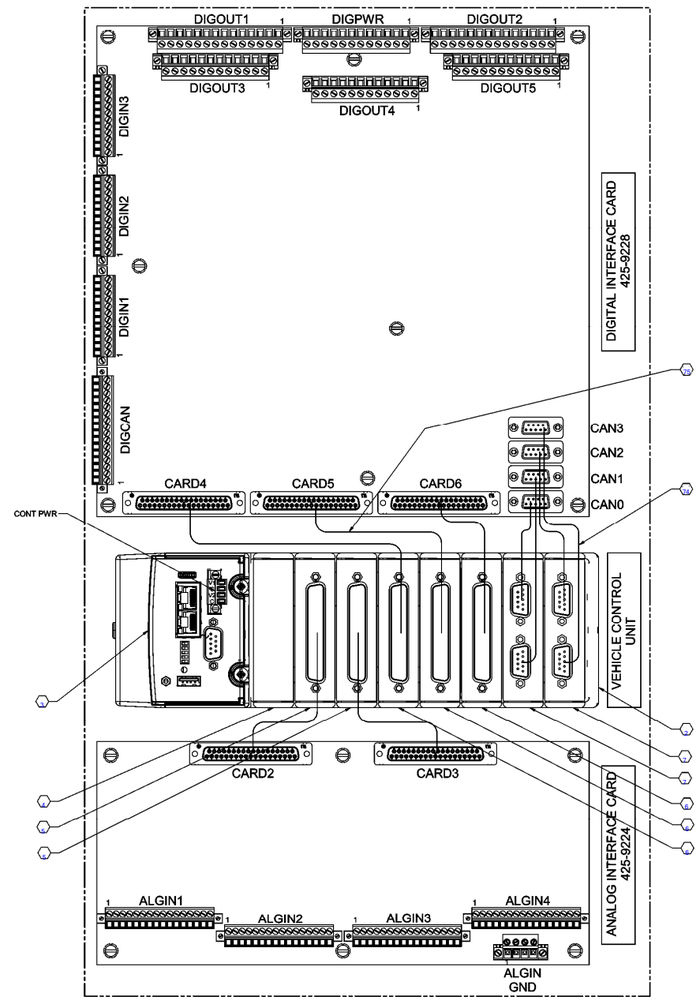
NOTE:
SEE TERMINAL BLOCK
TORQUE SPECIFICATIONS CHART
PRIOR TO INSTALLING WIRES
IN THE TERMINAL BLOCKS.

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
31	4220486	4.4	5.3	0.5	0.6
34	4259171	4.4	5.3	0.5	0.6
35	4220490	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
SIZE E | DO NOT SCALE | DWG NO. 4260945 | REV 04
SCALE 1/4 | 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 #	COMPONENT	WIRE GAUGE	LEFT SIDE WIRE CODE	LEFT SIDE DESTINATION	WIRE GAUGE	RIGHT SIDE WIRE CODE	RIGHT SIDE DESTINATION	FUSE AMPERAGE
1	FU01	10	0	0	14	0A	TS2-103-L	10
2	FU02		0	NC		0B	NC	10
3	FU03		0	NC		0C	NC	10
4	FU04		0	NC	14	0D	TS2-113-L	25
5	FU05		0	NC		0E	NC	20
6	FU06		0	NC		0E1	NC	10
7	FU07	10	0	0	12	0F	TS2-125-L	25
8	FU08		0	NC	12	0F	TS2-126-L	25
9	FU09		0	NC	16	0G	DIGPWR-6	10
10	FU10		0	0		0H	NC	10
11	FU11		0	NC		SRC1-05	NC	10
12	FU13		0	NC		CSP1-09	NC	5
13	FU14		0	NC		0K	NC	10
14	FU15		0	NC		0L	NC	10
15	FU16	10	0	0		0M	NC	15
16	FU17		0	NC		0N	NC	15
17	FU18		0	NC		0P	NC	25
18	FU19		0	NC		0R	NC	25
19	FU20		0	NC		0S	NC	15
20	FU21		0	0		0T	NC	30
21	FU22		0	NC		0U	NC	30
22	FU23		0	NC		0V	NC	30
23	FU24		0	NC		0W	NC	30
24	FU25		0	NC	14	0X	TS2-237-L	10
25	FU26	10	0	0		0Y	NC	10
26	FU102	12	12V1	CONV-4	12	12V2	TS2-117-L	15
27	FU104		0E1A	NC	18	0E1B	DCDC-5	5
28	FU105		0E1A	NC		CAB1-05	NC	5
29	FU109		0LA	NC	14	0LB	TS2-131-L	5
30	FU110		0LA	NC	14	0LC	TS2-133-L	5
31	FU111		0LA	NC		RCL1-08	NC	5
32	FU120		0VA	NC	14	0VB	TS2-211-L	10
33	FU121		0VA	NC	14	0VC	TS2-213-L	10
34	FU122		0VA	NC	14	0VD	TS2-215-L	10
35	FU123		0VA	NC	14	0VE	TS2-217-L	10
36	FU124		0VA	NC	14	0VF	TS2-219-L	10
37	FU125		0VA	NC	14	0VG	TS2-221-L	10
38	FU126		0VA	NC	14	0VH	TS2-223-L	10
39	FU127		0VA	NC	14	0VJ	TS2-225-L	10
40	FU128		0WA	NC	14	0WB	TS2-227-L	10
41	FU129		0WA	NC	14	0WC	TS2-229-L	10
42	FU130		0WA	NC	14	0WD	TS2-231-L	10
43	FU131		0WA	NC	14	0WE	TS2-233-L	10
44	FU132		0WA	NC	14	0WF	TS2-235-L	10
45	FU133		0WA	NC		EC1-11	NC	10
46	FU27	12	0	0	12	03	CONV-1	25

TERMINAL STRIP 2 (TS2) LAYOUT

LOWER LEVEL TERMINAL BLOCK #	WIRE GAUGE	WIRE CODE	LEFT SIDE DESTINATION	RIGHT SIDE DESTINATION
101	16	DI7	NC	DIGIN1-7
102	16	DO3	DIGOUT1-10	NC
103	14	0A	TS1-1-R	NC
104	16	0A	NC	ESD1-6
105	16	0A	NC	ESD1-7
106	16	0A	NC	ESD1-8
107	16	0A	NC	ESD3-1
108	16	0A	NC	ESD3-2
109		DIB	NC	NC
110	16	DI8	NC	DIGIN1-8
111		13	NC	NC
112		13	NC	NC
113	14	0D	TS1-4-R	NC
114		0D	NC	NC
115		0EA	NC	NC
116		0EA	NC	NC
117	12	12V2	TS1-28-R	NC
118		12V2	NC	NC
119		12V2	NC	NC
120		12V2	NC	NC
121	16	DO37	DIGOUT4-12	NC
122		DO37	NC	NC
123	16	DO38	DIGOUT4-11	NC
124		DO38	NC	NC
125	12	0F	TS1-7-R	NC
126	12	0F	TS1-5-R	NC
127		0JA	NC	NC
128		0JB	NC	NC
129		0KA	NC	NC
130		0KA	NC	NC
131	14	0LB	TS1-29-R	NC
132		0LB	NC	NC
133	14	0LC	TS1-30-R	NC
134		0LC	NC	NC
135		0MA	NC	NC
136		0MA	NC	NC
137		0MA	NC	NC
138		0NA	NC	NC
139		0NA	NC	NC
140		0NA	NC	NC
141		0PA	NC	NC
142		0PA	NC	NC
143		0PA	NC	NC
144	16	DI10	DIGIN1-10	NC
145		DI10	NC	NC
146	12	GND	GND	NC
147	16	GND	DIGPWR-5	NC
148	16	GND	DIGPWR-4	NC
149	16	GND	DIGPWR-3	NC
150	12	GND	CONV-2	NC
151	12	GND	GND	NC
152	16	GND	ESD1-10	NC
153	16	GND	ESD2-12	NC
154	16	GND	ESD3-3	NC
155	16	GND	ESD3-4	NC
156	12	GND	GND	NC
157	16	GND	CONTPWR-C	NC
158	16	GND	ALGGND-1	NC
159	16	GND	ALGGND-2	NC
160	16	GND	DC/DC-1	NC
161	12	GND	GND	NC
162	16	GND	DC/DC 12-	NC
163		GND	NC	NC
164		GND	NC	NC
165		GND	NC	NC
166	12	GND	GND	NC
167		GND	NC	NC
168		GND	NC	NC
169		GND	NC	NC
170		GND	NC	NC
171	12	GND	GND	NC
172		GND	NC	NC
173		GND	NC	NC
174		GND	NC	NC
175		GND	NC	NC

UPPER LEVEL TERMINAL BLOCK #	WIRE GAUGE	WIRE CODE	LEFT SIDE DESTINATION	RIGHT SIDE DESTINATION
201		3B	NC	NC
202		3B	NC	NC
203		0RA	NC	NC
204		0RA	NC	NC
205		0RA	NC	NC
206		0SA	NC	NC
207		0SA	NC	NC
208		0TA	NC	NC
209		0TA	NC	NC
210		0TA	NC	NC
211	14	0VB	TS1-32-R	NC
212		0VB	NC	NC
213	14	0VC	TS1-33-R	NC
214		0VC	NC	NC
215	14	0VD	TS1-34-R	NC
216		0VD	NC	NC
217	14	0VE	TS1-35-R	NC
218		0VE	NC	NC
219	14	0VF	TS1-36-R	NC
220		0VF	NC	NC
221	14	0VG	TS1-37-R	NC
222		0VG	NC	NC
223	14	0VH	TS1-38-R	NC
224		0VH	NC	NC
225	14	0VJ	TS1-39-R	NC
226		0VJ	NC	NC
227	14	0WB	TS1-40-R	NC
228		0WB	NC	NC
229	14	0WC	TS1-41-R	NC
230		0WC	NC	NC
231	14	0WD	TS1-42-R	NC
232		0WD	NC	NC
233	14	0WE	TS1-43-R	NC
234		0WE	NC	NC
235	14	0WF	TS1-44-R	NC
236		0WF	NC	NC
237	14	0X	TS1-24-R	NC
238		0X	NC	NC
239	16	DO58	DIGOUT5-3	NC
240		DO58	NC	NC
241	16	0FA	NC	DIGPWR-12
242	16	0FA	NC	DIGPWR-11
243	16	0FA	NC	DIGPWR-10
244	16	0FA	NC	DIGPWR-9
245	16	0FA	NC	DIGPWR-8
246		GND	NC	NC
247		GND	NC	NC
248		GND	NC	NC
249		GND	NC	NC
250		GND	NC	NC
251		GND	NC	NC
252		GND	NC	NC
253		GND	NC	NC
254		GND	NC	NC
255		GND	NC	NC
256		GND	NC	NC
257		GND	NC	NC
258		GND	NC	NC
259		GND	NC	NC
260		GND	NC	NC
261		GND	NC	NC
262		GND	NC	NC
263		GND	NC	NC
264		GND	NC	NC
265		GND	NC	NC
266		GND	NC	NC
267		GND	NC	NC
268		GND	NC	NC
269		GND	NC	NC
270		GND	NC	NC
271		GND	NC	NC
272		GND	NC	NC
273		GND	NC	NC
274		GND	NC	NC
275		GND	NC	NC

INTERCONNECTIONS NOT SHOW IN TERMINAL STRIP LAYOUTS

WIRE GAUGE	WIRE CODE	FROM	TO
16	DI23	ESD2-1	DIGIN2-11
16	DI24	ESD2-2	DIGIN2-12
16	DI25	ESD2-3	DIGIN3-1
16	DI26	ESD2-5	DIGIN3-2
16	DI27	ESD2-4	DIGIN3-3
16	DI31	ESD2-9	DIGIN3-7
16	0	0	ALGIN1-4

LEGEND

CAB1-01
CONNECTOR
PIN #

DIGIN1-1
INTERFACE CARD
DIG: DIGITAL INTERFACE (425-9228)
ALG: ANALOG INTERFACE (425-9224)
ESD: ESTOP INTERFACE (425-9226)
CONNECTION TYPE
IN: INPUT
OUT: OUTPUT
CAN: CONTROLER AREA NETWORK
PWR: POWER
GND: GROUND
CONECTOR #
PIN #

TS3-205-R
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 LEVE TERMINAL BLOCK
100's: LOWER LEVEL TERMINAL BLOCK
200's: UPPER LEVEL TERMINAL BLOCK
SIDE
L: LEFT HAND SIDE
R: RIGHT HAND SIDE

NC: NO CONNECTION

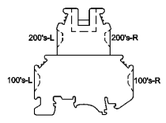
CONV: CONVERTER 24V TO 12V (417-1585)

CONTPWR: MACHINE CONTROLLER POWER (425-8753)

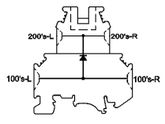
[: TERMINAL BRIDGE

—: SEPERATING PLATE

———: SPACER COVER



TERMINAL BLOCK LAYOUT



426-4181 (DIODE)

ASSY PANEL LOW VOLTAGE LINCS II	SIZE E	DO NOT SCALE	DWG NO. 4260945	REV 04
DRAWN	SCALE 1/4	WEIGHT -	SHEET 4 OF 4	

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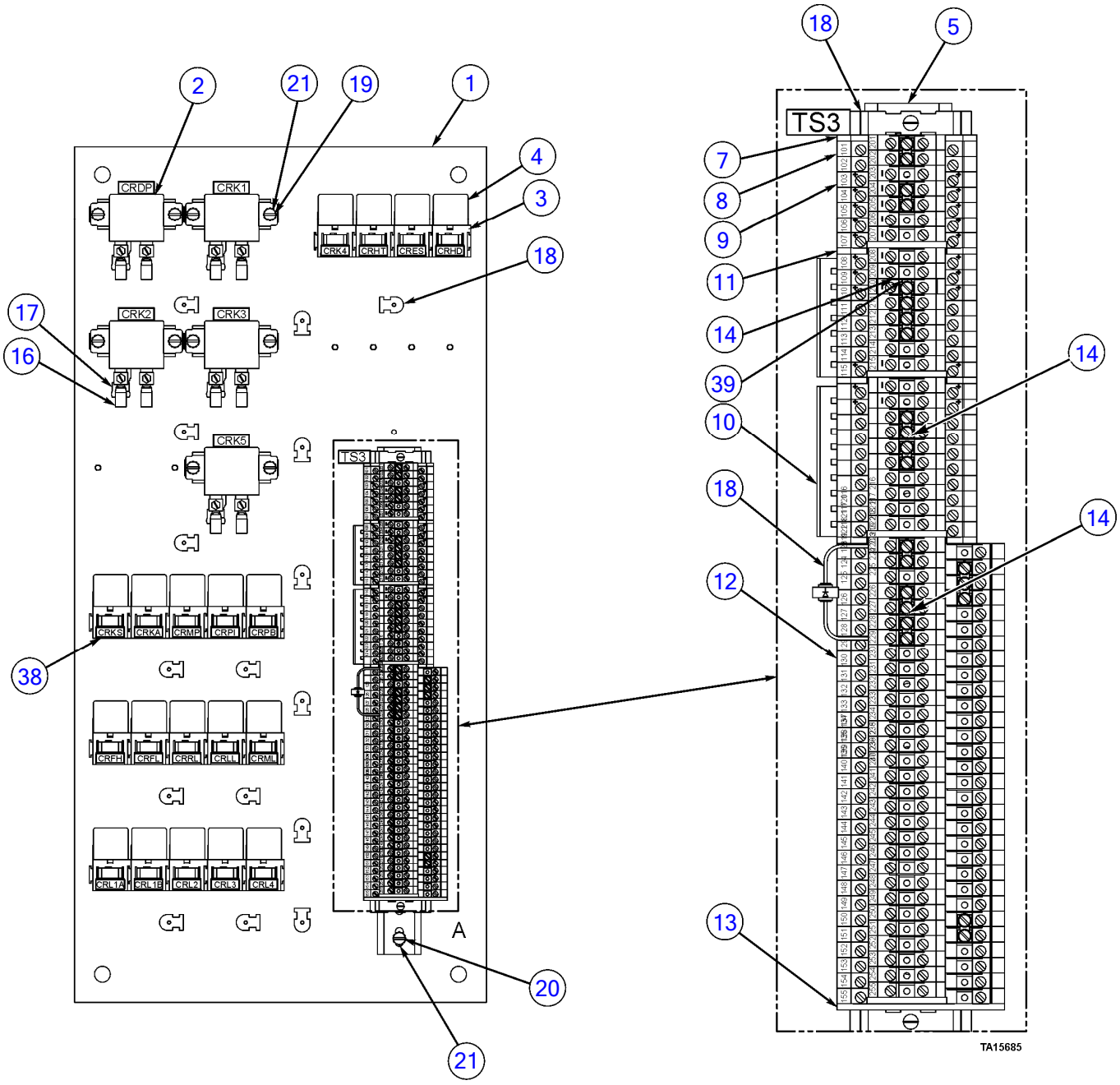
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4260945		PANEL ASSEMBLY, LOW VOLTAGE LINCS II		6/21/11
1	R4260944	1	· PANEL, LOW VOLTAGE - LINCS II		
2	R4258754	1	· VCU 8 SLOT CHASSIS		
3	R4268633	1	· VCU PROGRAMMED		4/20/11
4	R4260947	1	· VCU BLANK MODULE		
5	R4258750	2	· VCU ANALOG INPUT MODULE		
6	R4258751	3	· VCU 32CH TTL I/O MODULE		
7	R4258752	2	· VCU 2 PORT CAN MODULE		
8	R4259228	1	· CARD ASSEMBLY, DIGITAL INTERFACE		
9	R4259224	1	· CARD ASSEMBLY, ANALOG INTERFACE		
10	R4259226	1	· CARD ASSEMBLY, E-STOP INTERFACE		
11	R4270219	1	· CONVERTER, 24V TO 12V - 30A		4/20/11
12	R4253985	2	· POWER DISTRIBUTION BLOCK, COPPER 310A		
13	R4265740	2	· RAIL MOUNTING, 20" DIN		
14	R4265756	4	· BRACKET END		
15	R4264182	46	· TERMINAL BLOCK, FUSE		4/20/11
16	R4247479	1	· SPACER PLATE, GRAY		
17	R4264181	2	· TERMINAL BLOCK, DIODE		
18	R4264180	43	· TERMINAL BLOCK, GRAY		
19	R4264184	1	· TERMINAL BLOCK, COVER		
20	R4264183	30	· TERMINAL BLOCK, GROUND		
21	R4264185	43	· BRIDGE, FIXED		
22	R4228656	45	· PLATE, SEPARATING - TS-KK3 DIN		4/20/11
23	N.P.N.		· NOT USED		6/21/11
24	R4265742	6	· FUSE, 5A 32V - BLADE TYPE TAN		6/21/11
25	R4265743	26	· FUSE, 10A 32V - BLADE TYPE RED		6/21/11
26	R4265744	4	· FUSE, 15A 32V - BLADE TYPE LIGHT BLUE		6/21/11
27	R4265745	1	· FUSE, 20A 32V - BLADE TYPE YELLOW		
28	R4265746	6	· FUSE, 25A 32V - BLADE TYPE CLEAR		4/20/11
29	R4265747	3	· FUSE, 30A 32V - BLADE TYPE GREEN		6/21/11
30	R4220487	1	· TERMINAL PLUG, 4 POS		
31	R4220488	1	· TERMINAL PLUG, 6 POS		
32	R4259207	5	· TERMINAL PLUG, 16 POS		
33	R4259260	3	· TERMINAL PLUG, 12 POS		
34	R4259171	2	· TERMINAL PLUG, 14 POS		
35	R4220490	1	· TERMINAL PLUG, 10 POS		
36	R4220491	5	· TERMINAL PLUG, 12 POS		
37	R4078040	39	· CABLE TIE MOUNT, ADHESIVE		6/21/11
38	R4012067	39	· SCREW, #6-32 X 3/8" - F.H.		6/21/11
39	R4266266	86	· BRIDGE, FIXED		
40	R0260712	18	· SCREW, #6-32 X 7/16" - P.H.		4/20/11
41	R4010914	18	· LOCKWASHER, #6 - EXTERNAL TOOTH		
42	R4270211	18	· STANDOFF		4/20/11
43	R4010283	12	· SCREW, #10-32 X 1/2" - P.H.		
44	R0182634	14	· LOCKWASHER, #10 - EXTERNAL TOOTH		
45	R0222286	4	· SCREW, 1/4"-20 X 5/8" - P.H.		4/20/11
46	R0506807	4	· LOCKWASHER, 1/4" - EXTERNAL TOOTH		4/20/11
47	N.P.N.		· NOT USED		4/20/11
48	R4166227	2	· SCREW, #10-32 X 1"- S.S.		
49	R4265215	1	· CODE SHEET, LVCC PANEL LINCS II		
50	R4240040	1	· PLUG		4/20/11
51	R4240042	1	· WEDGE		4/20/11
52	R4153881	3	· CONTACT, #12 SOCKET		4/20/11
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.	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	2	· 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	2	· 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	120	· CABLE, #16 AWG 600V		6/21/11
74	R4111903	112	· CABLE, #12 AWG 2000V		6/21/11
75	R4079832	10	· CABLE, #14 AWG 600V		
76	R4111904	36	· 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	12	· CABLE, #18 AWG 600V		
81	R4019418	2	· TERMINAL, WIRE - #16-14, #10 HOLE		
82	R4266275	1	· TERMINAL MARKERS, LOW VOLTAGE		
83	R4270204	2	· FERRULE, INSULATED - 18 AWG .315LG RED		4/20/11
84	R4270207	15	· FERRULE, 12 AWG - GRAY		4/20/11
85	R4270206	36	· FERRULE, INSULATED - BLUE		4/20/11
86	R4270205	30	· FERRULE, INSULATED - 16 AWG .315LG BLACK		4/20/11
87	R4270208	5	· FERRULE, 10 AWG - YELLOW		4/20/11
88	R4274330	3	· DUCT, WIRING - 2" X 3" X 21"		6/21/11
89	R4274333	19	· DUCT, CORNER STRIP		6/21/11
90	R4274327	5	· DUCT, WIRING - 1-1/2" X 3" X 11-5/8"		6/21/11
91	R4274331	1	· DUCT, WIRING - 1-1/2" X 3" X 26-1/4"		6/21/11
92	R4274332	1	· DUCT, WIRING - 2" X 3" X 23-3/4"		6/21/11
93	R4274334	5	· COVER, WIRING DUCT - 1-1/2" X 11-5/8"		6/21/11
94	R4274338	3	· COVER, WIRING DUCT - 2" X 21-1/8"		6/21/11
95	R4274337	1	· COVER, WIRING DUCT - 2" X 23-3/4"		6/21/11
96	R4274336	1	· COVER, WIRING DUCT - 1-1/2" X 26-1/4"		6/21/11
	R4260945	REF	PANEL ASSEMBLY, LOW VOLTAGE LINCS II		6/21/11

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RELAY PANEL ASSEMBLY, LINCS II



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4265198		PANEL ASSEMBLY, LINCS II RELAY		11/26/12
1	R4265197	1	· PANEL, RELAY - LINCS II		
2	R4119992	5	· RELAY, 50A 24VDC		
3	R4260949	19	· BRACKET MOUNT SOCKET, RELAY		
4	R4260950	19	· RELAY, 20A		
5	R4265741	1	· RAIL MOUNTING, 16" DIN		
6	R4265756	2	· BRACKET END		
7	R4247479	1	· SPACER PLATE, GRAY		
8	R4247473	14	· TERMINAL BLOCK, GRAY		3/31/11
9	R4264181	11	· TERMINAL BLOCK, DIODE		
10	R4265748	18	· BRIDGE, INSERTION		
11	R4247477	3	· END COVER, GRAY		
12	R4264180	30	· TERMINAL BLOCK, GRAY		
13	R4264184	1	· TERMINAL BLOCK, COVER		
14	R4228656	16	· PLATE, SEPARATING - TS-KK3 DIN		
15	R4135968	1	· DIODE ASSEMBLY, 6A-1000V		
16	R4019434	10	· TERMINAL, WIRE - #12-10, #10 HOLE		
17	R4112578	10	· LUG, SPADE - 1/4", FEMALE		
18	R4252936	16	· MOUNT BASE, CABLE TIE		
19	R4012632	10	· SCREW, #10-32 X 5/8" - P.H.		
20	R4010283	23	· SCREW, #10-32 X 1/2" - P.H.		3/31/11
21	R0182634	33	· LOCKWASHER, #10 - EXTERNAL TOOTH		3/31/11
22	R4265216	1	· CODE SHEET, RELAY PANEL - LINCS II		3/31/11
23	R4228710	1	· MARKER, DIN - TERMINAL BLOCK, #101-110		
24	R4228711	1	· MARKER, DIN - TERMINAL BLOCK, #111-120		
25	R4228712	1	· MARKER, DIN - TERMINAL BLOCK, #121-130		
26	R4228713	1	· MARKER, DIN - TERMINAL BLOCK, #131-140		
27	R4228714	1	· MARKER, DIN - TERMINAL BLOCK, #141-150		
28	R4228715	1	· MARKER, DIN - TERMINAL BLOCK, #151-160		
29	R4228720	1	· MARKER, DIN - TERMINAL BLOCK, #201-210		
30	R4228721	1	· MARKER, DIN - TERMINAL BLOCK, #211-220		
31	R4228722	1	· MARKER, DIN - TERMINAL BLOCK, #221-230		
32	R4228723	1	· MARKER, DIN - TERMINAL BLOCK, #231-240		
33	R4228724	1	· MARKER, DIN - TERMINAL BLOCK, #241-250		
34	R4228725	1	· MARKER, DIN - TERMINAL BLOCK, #251-260		
35	R4120401	200	· CABLE, #16 AWG 600V		6/21/11
36	R4079832	36	· CABLE, #14 AWG 600V		
37	R4111903	24	· CABLE, #12 AWG 2000V		
38	R4260955	79	· LUG, SPADE - 14-16 AWG, MALE		
39	R4266266	23	· BRIDGE, FIXED		
40	R4266274	1	· TERMINAL MARKERS, RELAY		
41	R4270205	66	· FERRULE, INSULATED - 16 AWG .315LG BLACK		3/31/11
42	R4270206	46	· FERRULE, INSULATED - BLUE		3/31/11
43	R4270207	10	· FERRULE, 12 AWG - GRAY		3/31/11
44	R4274370	1	LABELS		11/16/12
		REF	DRAWING, RELAY PANEL ASSEMBLY, LINCS II (R426519805)		11/26/12

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

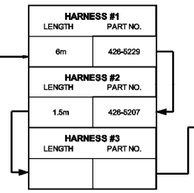
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FRONT FRAME HARNESS GROUP

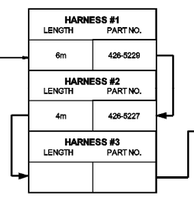
LOW VOLTAGE CONTROL CABINET

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



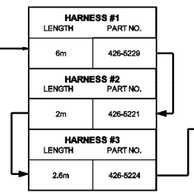
HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	DEVICE CABLES									
			HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		PINOUT
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	
FFR1-J7	FFR1-05								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
FFR1-J5	FFR1-03	AUTO LUBE SOL	1.4m	426-4197	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	1.6m	426-4198							
FFR1-J2	FFR1-01								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
FFR1-J4	FFR1-02	FRONT SERVICE BRAKES XDCR	3m	426-5213	1m	426-5230	1m XDCR	426-5234			
FFR1-J6	FFR1-04	FRONT PARK BRAKES XDCR	3m	426-5213	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**



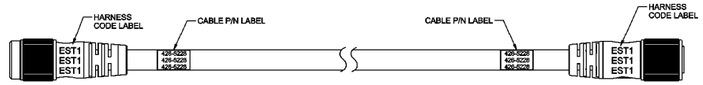
HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	DEVICE CABLES									
			HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		PINOUT
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	
FFR2-J7	FFR2-05	FRONT DRIVER LUBE FLOW SWITCHES	1m	426-5230	TEE	427-.0079	6m OPEN 6m OPEN	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	3m	426-7338					
FFR2-J1	FFR2-07	LIFT ARM POSITION XDCR	3m	426-7338							
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 ITS 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
29	4274511	5	CABLE EXT 4 PIN 3M
28	4274370	2	LABELS FOR BRADY IDPAL LABELER
27	4274371	.125	TAPE STRIPS
26	4170188	3 FT	HEAT SHRINK CLEAR 2.000 2:1
25	4170167	5 FT	HEAT SHRINK CLEAR 1.500 2:1
24	4170166	5 FT	HEAT SHRINK CLEAR 1.000 2:1
23	4170165	5 FT	HEAT SHRINK CLEAR .750 2:1
22	4170164	5 FT	HEAT SHRINK CLEAR .500 2:1
21	4170163	5 FT	HEAT SHRINK CLEAR .375 2:1
20	4265200	2	CAP 7/8 MALE TURCK
19	4265235	2	BREAKOUT BOX 12 PIN 8 X 3 PIN
18	4261175	5	DEUTSCH DT06-2S KIT
17	4270079	1	CABLE 3 PIN SERIES WIRED TEE 1M1M
16	4265229	4	CABLE EXT 12 PIN 6M
15	4265228	1	CABLE EXT 12 PIN 5M
14	4265227	1	CABLE EXT 12 PIN 4M
12	4265224	1	CABLE EXT 12 PIN 2.6M
11	4265221	1	CABLE EXT 12 PIN 2M
10	4265207	1	CABLE EXT 12 PIN 1.5M
9	4267338	2	CABLE 3 PIN MX12 3 COND 3M
8	4265234	5	CABLE 3 PIN MX12 4 PIN 1M
7	4265233	1	CABLE 3 PIN DIN 1M
6	4265232	5	CABLE EXT 3 PIN - OPEN 6M
5	4266240	1	CABLE EXT 3 PIN 5M
4	4265213	2	CABLE EXT 3 PIN 3M
3	4264198	1	CABLE EXT 3 PIN 1.6M
2	4264197	3	CABLE EXT 3 PIN 1.4M
1	4265230	2	CABLE EXT 3 PIN 1M

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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: 4266328

DWN	bswink	05-17-11
CHK	BAS	05-17-11
ENGR		
PROD ENGR	BS	05-17-11
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HARNESS FF L1850

SIZE E | DO NOT SCALE | DWG NO. 4266332 | REV 05

SCALE 1/1 | WT KY | SHEET 1 OF 2

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LOW VOLTAGE CONTROL CABINET

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

HARNESS #1 LENGTH	PART NO.
6m	426-5229

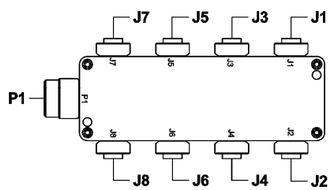
HARNESS #2 LENGTH	PART NO.
5m	426-5228

HARNESS #3 LENGTH	PART NO.

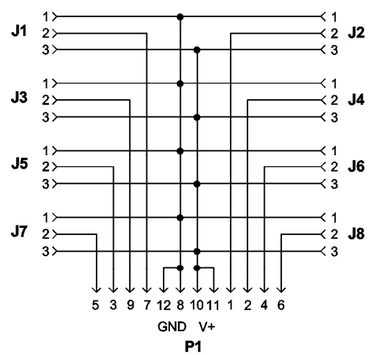
HARNESS CODE	SIGNAL PIN CODE	DEVICE CABLES: DEVICE DESCRIPTION	HARNESS #1 LENGTH / TYPE	HARNESS #1 PART NO.	HARNESS #2 LENGTH / TYPE	HARNESS #2 PART NO.	HARNESS #3 LENGTH / TYPE	HARNESS #3 PART NO.	CONNECTOR TYPE	CONNECTOR PART NO.	PINOUT
PCP2-J7	PCP2-05	HOIST CYL ROD XDCR	1.4m	426-4197	1m XDCR	426-5234			CAP - MALE TURCK (PART OF HYD PANEL ASSY)	□□426-5200	
PCP2-J5	PCP2-03	□CLAMSEHLL CLOSE PILOT SOL (OPT)							CAP - MALE TURCK (PART OF HYD PANEL ASSY)	□□426-5200	
PCP2-J3	PCP2-09	HOIST CYL BASE XDCR	1m XDCR	426-5234	1.4m	426-4197					
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 DIN	426-5233							
PCP2-J8	PCP2-06	□□LDAT SOL	1m DIN	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	3m	427-4511	3m	427-4511				
FPL2	FRONT POLE LIGHT	3m	427-4511	3m	427-4511	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 L1850 | E | DO NOT SCALE | 4266332 | 05 | 5-17-11 | 2 OF 2

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4266332			FRONT FRAME HARNESS GROUP		5/1/18
1	R4265230	2		· CABLE EXTENSION, 3 PIN 1M		
2	R4264197	3		· CABLE EXTENSION, 3 PIN 1.4M		
3	R4264198	1		· CABLE EXTENSION, 3 PIN 1.6M		
4	R4265213	2		· CABLE EXTENSION, 3 PIN 3M		
5	R4266240	1		· CABLE EXTENSION, 3 PIN 5M		
6	R4265232	5		· CABLE EXTENSION, 3 PIN - OPEN 6M		
7	R4265233	1		· CABLE EXTENSION, 3 DIN 1M		
8	R4265234	5		· CABLE, 3 PIN - MX12 4 PIN, 1 M		
9	R4267338	2		· CABLE, 3 PIN - M12X1 3 COND 3M		
10	R4265207	1		· CABLE EXTENSION, 12 PIN 1.5M		
11	R4265221	1		· CABLE EXTENSION, 12 PIN 2M		
12	R4265224	1		· CABLE EXTENSION, 12 PIN 2.6M		10/17/11
13	N.P.N.			· NOT USED		5/2/17
14	R4265227	1		· CABLE EXTENSION, 12 PIN 4M		
15	R4265228	1		· CABLE EXTENSION, 12 PIN 5M		
16	R4265229	4		· CABLE EXTENSION, 12 PIN 6M		5/2/17
17	R4270079	1		· CABLE, 3 PIN 1M X 1M		
18	R4261175	5		· CONNECTOR KIT, DT06-2S KIT		
19	R4265235	2		· BREAKOUT BOX, 12 PIN - 8 X 3 PIN		
20	R4265200	2		· CAP, TURCK - 7/8" MALE		
21	R4170163	5	FT	· HEAT SHRINK, CLEAR - 3/8"		
22	R4170164	5	FT	· HEAT SHRINK, CLEAR - 1/2"		
23	R4170165	5	FT	· HEAT SHRINK, CLEAR - 3/4"		
24	R4170166	5	FT	· HEAT SHRINK, CLEAR - 1"		
25	R4170167	5	FT	· HEAT SHRINK, CLEAR - 1-1/2"		
26	R4170168	3	FT	· HEAT SHRINK, CLEAR - 2"		
27	R4274371	1		· TAPE STRIPS		
28	R4274370	2		· LABELS		5/14/12
29	R4274511	5		· CABLE EXTENSION, 4 PIN 3M		5/2/17
		REF		DRAWING, FRONT FRAME HARNESS GROUP (R426633205)		5/1/18

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

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REAR FRAME HARNESS GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	NL11-0436	6-16-11	LW	BAS	BS
	01	EST1-J1 HARNESS 2 PIN WAS 4265213 & ITEM 4 QTY WAS 11	NL11-1768	8-02-11	LW	BAS	BS
	02	ITEM 1 WAS QTY 8; ITEM 7 WAS QTY 14;					
	02	ITEM 8 WAS QTY 8; ITEM 36 WAS QTY 1	NL11-1796	9-14-11	JFM	BS	BS
	03	ITEM 48 WAS QTY 2	NL11-1818	10-14-11	JFM	BS	BS
	04	ITEM 1 WAS QTY 7; ITEM 3 WAS QTY 6; ADDED ITEM 49 CABLE;					
	04	CHGD HARNNESS #2 LENGTH & PART NO. AT EST1-J1 &J2	NL12-1524	2-10-12	JFM	BS	BS

LOW VOLTAGE CONTROL CABINET

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

HARNESS #1 LENGTH	HARNESS #1 PART NO.
6m	426-5229
HARNESS #2 LENGTH	PART NO.
1.5m	426-5207
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	5m	426-6240	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	2m	426-5231							
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-J5	RFM1-06	DRIVE COOL RESERVOIR LEVEL SWITCH	5m	426-6240	2m	426-5231	6m OPEN	426-5232	IN LINE SPLICE		BLK = BLU, GRN = BLK WHT = RED

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

HARNESS #1 LENGTH	HARNESS #1 PART NO.
5m	426-5228
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-J7	EST1-05								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
EST1-J5	EST1-03	CAB E-STOP SWITCH	5m	426-6240							
EST1-J3	EST1-09	HV CABINET E-STOP SWITCH	5m	426-6240							
EST1-J1	EST1-07	RIGHT REAR E-STOP SWITCH	10m	426-6241	1.6m	426-4198					
EST1-J2	EST1-01	LEFT REAR E-STOP SWITCH	10m	426-6241	2m	426-5231					
EST1-J4	EST1-02	HYD RESERVOIR E-STOP SWITCH	1m	426-5230	3m	426-5213	5m	426-6240			
EST1-J6	EST1-04	FIRE SYSTEM STATUS	6m OPEN	426-5232							GRN = 1, BLK = 2
EST1-J8	EST1-06								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		

ITEM	PART NO.	QTY	DESCRIPTION
49	4264196	1	CABLE EXT 3 PIN 1.6M
48	4274870	4	LABELS FOR BRADY IDPAL LABELER
47	4274371	.125	TAPE STRIPS
46	4170166	5 FT	HEAT SHRINK CLEAR 2.000 2:1
45	4170167	15 FT	HEAT SHRINK CLEAR 1.500 2:1
44	4170166	15 FT	HEAT SHRINK CLEAR 1.000 2:1
43	4170165	15 FT	HEAT SHRINK CLEAR .750 2:1
42	4170164	15 FT	HEAT SHRINK CLEAR .500 2:1
41	4170163	15 FT	HEAT SHRINK CLEAR .375 2:1
40	4267798	3	CABLE WATER PUMP LINCS II
39	4265200	6	CAP 7/8 MALE TURCK
38	4265235	8	BREAKOUT BOX 12 PIN 8 X 3 PIN
37	4281175	5	DEUTSCH DT06-2S KIT
36	4240140	2	CONNECTOR (PLUG) DIN REXROTH
35	4255187	2	TERMINAL HOUSING
34	4255183	4	TERMINAL
33	4253961	1	CABLE ASSY BLOWER SPEED SENSOR
32	4260477	1	ASSY ENG FAN SPD SNSR HARNESS
31	4266267	2	CABLE 3PIN M-5PIN 9FT SPD SNSR
30	4267339	1	CABLE 12 PIN AC 4.2M
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	4266253	4	CABLE TEE CAN 2 MALE-FEM
25	4266251	1	CABLE EXT CAN 10M
24	4265638	2	CABLE EXT CAN 4.3M
23	4264188	1	CABLE EXT CAN 1.5M
22	4266249	1	CABLE EXT CAN 1M
21	4266246	2	CABLE EXT CAN 0.5M
20	4266243	4	CABLE EXT 12 PIN 10M
19	4266242	2	CABLE EXT 12 PIN 8M
18	4265229	3	CABLE EXT 12 PIN 6M
17	4265228	1	CABLE EXT 12 PIN 5M
16	4265227	5	CABLE EXT 12 PIN 4M
15	4265226	2	CABLE EXT 12 PIN 3M
14	4265221	1	CABLE EXT 12 PIN 2M
13	4265207	8	CABLE EXT 12 PIN 1.5M
12	4265220	2	CABLE EXT 12 PIN 1M
11	4270079	1	CABLE 3 PIN SERIES WIRED TEE 1M1M
10	4267338	1	CABLE 3 PIN MX12 3 COND 3M
9	4265234	19	CABLE EXT 3 PIN - MX12 4 PIN 1M
8	4265233	5	CABLE EXT 3 PIN - DIN 1M
7	4265232	15	CABLE EXT 3 PIN - OPEN 6M
6	4266241	4	CABLE EXT 3 PIN 10M
5	4266240	11	CABLE EXT 3 PIN 5M
4	4265213	10	CABLE EXT 3 PIN 3M
3	4265231	7	CABLE EXT 3 PIN 2M
2	4264197	1	CABLE EXT 3 PIN 1.4M
1	4265230	5	CABLE EXT 3 PIN 1M

NOTE:

[ ] INDICATES MACHINE OPTION
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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1900-00.

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 .125 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THIS BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO	426-6329	
DWN	tvewink	06 17 10
CHK	BAS	06-18-11
ENGR		
PROD ENGR	BS	06-18-11
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

GP HARNESS RF L1850

SIZE E | DO NOT SCALE | DWG NO 4266333 | REV 04 | SCALE 1/1 | DO NOT SCALE | SHEET 1 OF 4

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REAR FRAME HARNESS GROUP

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REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	APP
	00	RELEASE	NIL11-0436	6-16-11	LW	BAS	BS
	01	SEE SHEET 1 FOR CHANGES	NIL11-1768	8-02-11	LW	BAS	BS
	02	CHG'D STR2 AT STR INT FACE & RFF1-J8 HRN J3	NIL11-1796	9-14-11	JFM	BS	BS
	03	NO CHG THIS SHEET; SEE SHEET 1 FOR CHG	NIL11-1818	10-14-11	JFM	BS	BS
	04	NO CHG THIS SHEET; SEE SHEET 1 FOR CHG	NIL12-1824	2-10-12	JFM	BS	BS

LOW VOLTAGE CONTROL CABINET

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

HARNESS #1 — LENGTH: 4m — PART NO.: 426-5227
HARNESS #2 — LENGTH: — PART NO.:
HARNESS #3 — LENGTH: — PART NO.:

			DEVICE CABLES								
			HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		
HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	PINOUT
RFF1-J7	RFF1-05	HYD RESERVOIR LEVEL SWITCH	6m OPEN	426-5232					IN LINE SPLICE		BLK = BLU, GRN = BLK, WHT = RED
RFF1-J5	RFF1-03	HYD RESERVOIR OIL TEMP XDCR	2m	426-5231	1m XDCR	426-5234					
RFF1-J3	RFF1-09								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFF1-J1	RFF1-07	KLENZ RESERVOIR AIR XDCR	3m	426-5213	1m XDCR	426-5234					
RFF1-J2	RFF1-01	HYD TANK DUMP SOL	5m	426-5240							
RFF1-J4	RFF1-02								CAP - MALE TURCK (QTY - 1)	426-5200	
RFF1-J6	RFF1-04	STEER POSITION XDCR	3m	426-7338							
RFF1-J8	RFF1-06	AUX FAN ENABLE SOL **(OPT)**	5m	426-5240	1m DIN	426-5233			CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		

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

HARNESS #1 — LENGTH: 6m — PART NO.: 426-5229
HARNESS #2 — LENGTH: — PART NO.:
HARNESS #3 — LENGTH: — PART NO.:

			DEVICE CABLES								
			HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		
HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.	PINOUT
RFF2-J7	RFF2-05	AUX STEER ENABLE **(OPT)**	3m	426-5213					CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFF2-J5	RFF2-03	AUX STEER SUPPLY PRESS SWITCH **(OPT)**	3m	426-5213					CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFF2-J3	RFF2-09								CAP - MALE TURCK (QTY - 1)	426-5200	
RFF2-J1	24V ONLY	AIR DRYER HEATER	6m OPEN	426-5232					WIRE HARNESS AIR DRYER	425-8402	WHT = 1, GRN = 2
RFF2-J2	RFF2-01	RADIATOR FAN CONTROL SOL	5m	426-5240	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	STEER LEFT OUTPUT	3m	426-5213							
RFF2-J8	RFF2-06	STEER RIGHT OUTPUT	3m	426-5213							

STEERING INTERFACE

STR1	STR1-02	STEER VALVE	6m OPEN	426-5232					DIN	424-0140	BLK = 2, WHT = 1 GRN = GDM
STR2	STR2-02	AUX STEER SOL **(OPT)**	6m OPEN	426-5232					DIN	424-0140	BLK = 1, GRN = 2

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

HARNESS #1 — LENGTH: 6m — PART NO.: 426-5229
HARNESS #2 — LENGTH: 1m — PART NO.: 426-5220
HARNESS #3 — LENGTH: — PART NO.:

			DEVICE CABLES								
			HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR		
HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	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	426-5234							
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	2m	426-5231	1m DIN	426-5233					

NOTE:
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GP HARNESS RF L1850 | SIZE E | DO NOT SCALE | DWG NO. 4266333 | REV 04
DRAWN DSWYK | DATE 5-17-11 | SCALE 1/1 | SHEET 2 OF 4

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REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHK	APP
	00	RELEASE	NIL11-0436	6-16-11	LW	BAS	BS
	01	SEE SHEET 1 FOR CHANGES	NIL11-1768	8-02-11	LW	BAS	BS
	02	NO CHG THIS SHEET; SEE SHEET 1 & 2 FOR CHG	NIL11-1796	9-14-11	JFM	BS	BS
	03	NO CHG THIS SHEET; SEE SHEET 1 FOR CHG	NIL11-1818	10-14-11	JFM	BS	BS
	04	NO CHG THIS SHEET; SEE SHEET 1 FOR CHG	NIL12-1624	2-10-12	JFM	BS	BS

LOW VOLTAGE CONTROL CABINET

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

HARNESS #1 LENGTH	HARNESS #1 PART NO.
4m	426-5227
HARNESS #2 LENGTH	PART NO.
HARNESS #3 LENGTH	PART NO.

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.	
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	2m	426-5231	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								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		

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

HARNESS #1 LENGTH	HARNESS #1 PART NO.
3m	426-5226
HARNESS #2 LENGTH	PART NO.
HARNESS #3 LENGTH	PART NO.

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.	
RFF5-J7	RFF5-05	BLOWER SPEED CONTROL SOL	5m	426-6240	1m	426-5230	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)	425-5193 425-5187	BLK, GRN
RFF5-J1	RFF5-07	FRONT WASHER PUMP	6m OPEN	426-5232					TERMINALS (QTY - 2) HOUSING (QTY - 1)	425-5193 425-5187	BLK, GRN
RFF5-J2	RFF5-01	AMBIENT AIR TEMPERATURE XDCR	3m	426-5213	1m	426-5230	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								CAP - MALE TURCK (QTY - 1)	426-5200	

BOX: **RAX1**
DESCRIPTION: **REAR AXLE #1**

HARNESS #1 LENGTH	HARNESS #1 PART NO.
10m	426-6243
HARNESS #2 LENGTH	PART NO.
HARNESS #3 LENGTH	PART NO.

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.	
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	2m	426-5231	5m TEE	426-6240 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
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:
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REVISIONS						
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	NIL11-0436	6-16-11	LW	BAS	BS
	01	SEE SHEET 1 FOR CHANGES	NIL11-1768	8-02-11	LW	BAS	BS
	02	NO CHG THIS SHEET; SEE SHEET 1 & 2 FOR CHG	NIL11-1796	9-14-11	JFM	BS	BS
	03	NO CHG THIS SHEET; SEE SHEET 1 FOR CHG	NIL11-1818	10-14-11	JFM	BS	BS
	04	NO CHG THIS SHEET; SEE SHEET 1 FOR CHG	NIL12-1824	2-10-12	JFM	BS	BS

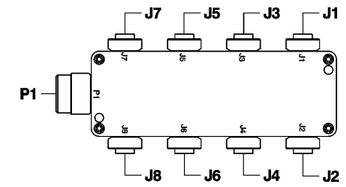
LOW VOLTAGE CONTROL CABINET

		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	426-5227	1.5m	426-5207				
MBR1	MIRROR BAR	6m	426-6242	1.5m	426-5207				
MBR2	MIRROR BAR	6m	426-6242	1.5m	426-5207				
DCP1	DRIVE COOLING PUMP	10m	426-6241	3m	426-5213				
EIC1	ENGINE INTERFACE CABINET	10m	426-6243	4m	426-5227				
EIC3	ENGINE INTERFACE CABINET	10m	426-6251	CABLE TEE	426-6253	4.3m 4.3m	426-5838 426-5838		
	(EIC3 CONT.)	CABLE TEE 0.4m / WATER PUMP	426-6253 426-7798	0.5m	426-6246	CABLE TEE 0.4m / WATER PUMP	426-6253 426-7798		
	(EIC3 CONT.)	0.2m	426-6246	CABLE TEE 0.4m / WATER PUMP	426-6253 426-7798	TERMINATOR	426-6254		
CSP1	CONTROL SWITCH PANEL	10m	426-6243	3m	426-5226				
RCL1	REAR COWL	10m	426-6243	4m	426-5227	2m	426-5221		
RCL2	REAR COWL	10m	426-6241	5m	426-6240	1m	426-5230		
SRC1	SR CABINET	1m	426-6220	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	3m	426-5213	3m	426-5213	1m	426-5230		
CAB1	CAB	1.5m	426-5207						
CAB2	CAB	1.5m	426-5207						
CAB3	CAB	1.5m	426-5207						
CAB4	CAB	1.5m	426-5207						
CAB5	CAB	1.5m	426-4188						
CAB6	CAB	1.5m	426-4195						
CAB9	CAB TO AC CONDENSOR	4.2m	426-7339						
CAB10	CAB TO AC CLUTCH	1.4m	426-4197	1m DIN	426-5233				

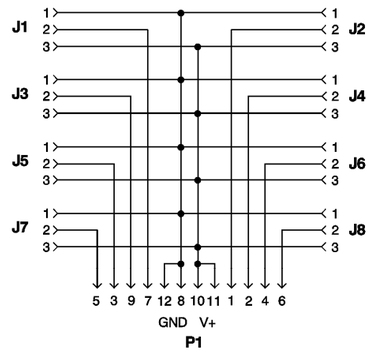
ISOLATION AND CONTROL SWITCHES

CABLE	DEVICE DESCRIPTION	LENGTH/TYPE	PART NO.	PINOUT
CSP2	LADDER LIMIT SWITCH	6m OPEN	426-5232	POWER STEP: WHT, BLK = GRN

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



TOP VIEW - BREAKOUT BOX



SCHEMATIC - BREAKOUT BOX

NOTE:
[ ] INDICATES MACHINE OPTION — SHOWN FOR REFERENCE ONLY.

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4266333		REAR FRAME HARNESS GROUP		5/14/12
1	R4265230	7	· CABLE EXTENSION, 3 PIN 1M		10/17/11
2	R4264197	1	· CABLE EXTENSION, 3 PIN 1.4M		
3	R4265231	6	· CABLE EXTENSION, 3 PIN 2M		
4	R4265213	10	· CABLE EXTENSION, 3 PIN 3M		
5	R4266240	11	· CABLE EXTENSION, 3 PIN 5M		
6	R4266241	4	· CABLE EXTENSION, 3 PIN 10M		
7	R4265232	15	· CABLE EXTENSION, 3 PIN - OPEN 6M		10/17/11
8	R4265233	5	· CABLE EXTENSION, 3 DIN 1M		10/17/11
9	R4265234	19	· CABLE, 3 PIN - MX12 4 PIN, 1 M		
10	R4267338	1	· CABLE, 3 PIN - M12X1 3 COND 3M		
11	R4270079	1	· CABLE, 3 PIN 1M X 1M		
12	R4265220	2	· CABLE EXTENSION, 12 PIN 1M		
13	R4265207	8	· CABLE EXTENSION, 12 PIN 1.5M		
14	R4265221	1	· CABLE EXTENSION, 12 PIN 2M		
15	R4265226	2	· CABLE EXTENSION, 12 PIN 3M		
16	R4265227	5	· CABLE EXTENSION, 12 PIN 4M		
17	R4265228	1	· CABLE EXTENSION, 12 PIN 5M		
18	R4265229	3	· CABLE EXTENSION, 12 PIN 6M		
19	R4266242	2	· CABLE EXTENSION, 12 PIN 8M		
20	R4266243	4	· CABLE EXTENSION, 12 PIN 10M		
21	R4266246	2	· CABLE EXTENSION, CAN .5M		
22	R4266249	1	· CABLE EXTENSION, CAN 1M		
23	R4264188	1	· CABLE EXTENSION, CAN 1.5M		
24	R4265838	2	· CABLE EXTENSION, CAN 4.3M		
25	R4266251	1	· CABLE EXTENSION, CAN 10M		
26	R4266253	4	· CABLE TEE, CAN - 2 MALE-FEMALE		
27	R4266254	1	· CABLE, CAN - MALE		
28	R4264195	1	· CABLE EXTENSION, E-NET 1.5M		
29	R4258492	1	· HARNESS KIT, AIR DRYER		
30	R4267339	1	· CABLE, 12 PIN AC 4.2M		
31	R4266267	2	· CABLE, 3 PIN - M-5PIN 9FT SPEED SENSOR		
32	R4260477	1	· HARNESS ASSEMBLY, ENGINE FAN SPEED SENSOR		
33	R4253961	1	· CABLE ASSEMBLY, BLOWER SPEED SENSOR - 10'		
34	R4255183	4	· TERMINAL		
35	R4255187	2	· TERMINAL HOUSING		
36	R4240140	2	· CONNECTOR PLUG, DIN REXROTH		10/17/11
37	R4261175	5	· CONNECTOR KIT, DT06-2S KIT		
38	R4265235	8	· BREAKOUT BOX, 12 PIN - 8 X 3 PIN		
39	R4265200	8	· CAP, TURCK - 7/8" MALE		
40	R4267798	3	· 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		5/14/12
49	R4264198	1	· CABLE EXTENSION, 3 PIN 1.6M		5/14/12
	R4266333	REF	REAR FRAME HARNESS GROUP		5/14/12

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

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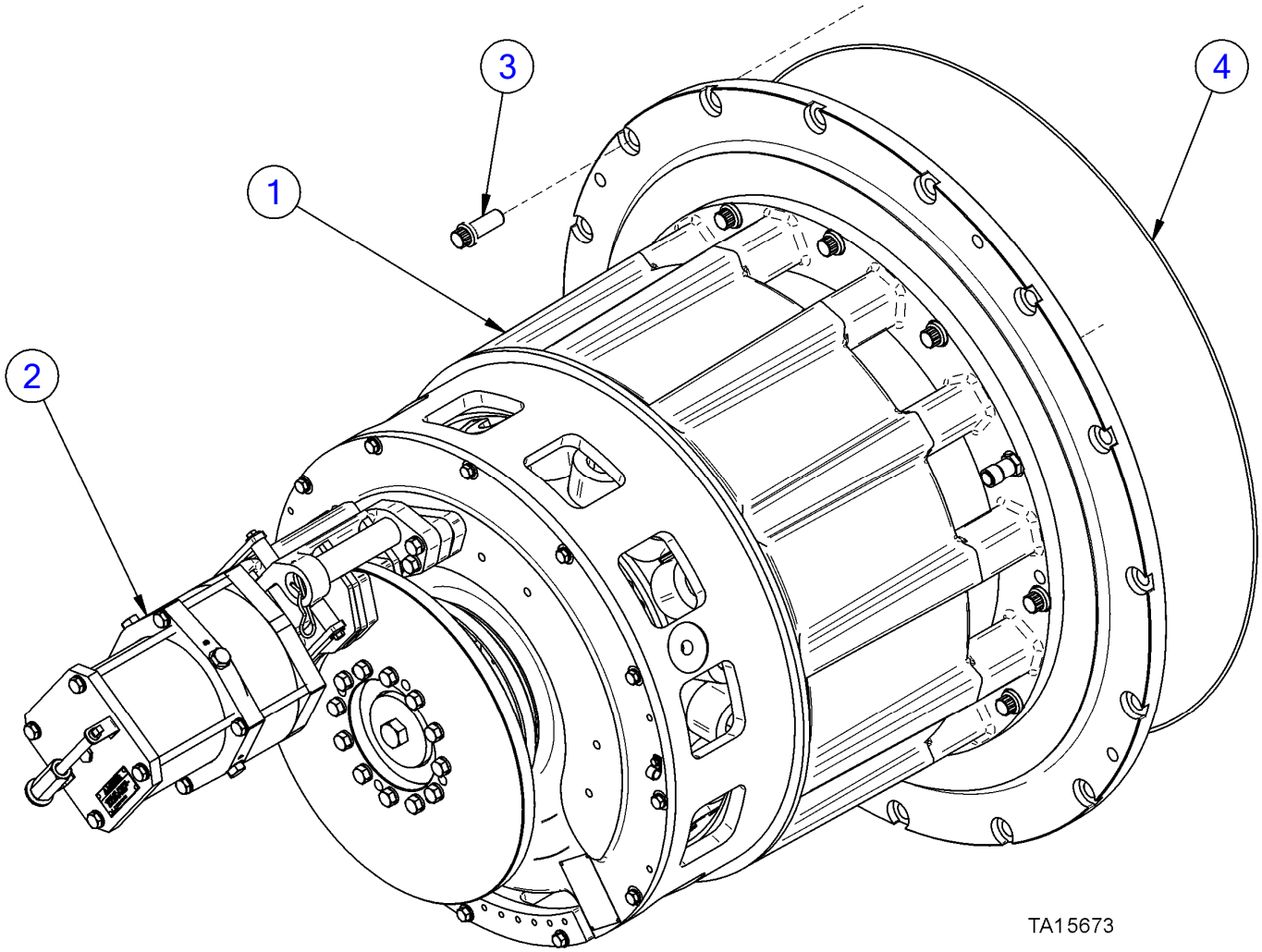
SECTION OR GROUP TITLE
B60 MOTOR AND BRAKE ASSEMBLY
B60 MOTOR ASSEMBLY
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B60 MOTOR AND BRAKE ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273272		B60 MOTOR AND BRAKE ASSEMBLY		11/14/14
1	R4264710	1	· B60 MOTOR ASSEMBLY (PAGE 6.1-6.1B)		
2	R4248971	1	· BRAKE CALIPER ASSEMBLY (PAGE 8.21-8.21A)		
3	R4157321	16	CAPSCREW, 1"-8 X 2-1/2"		11/14/14
4	R4233592	1	O-RING, 45-1/2" I.D. - BUNA N		11/14/14
		REF	DRAWING, B60 MOTOR AND BRAKE ASSEMBLY (R427327201)		

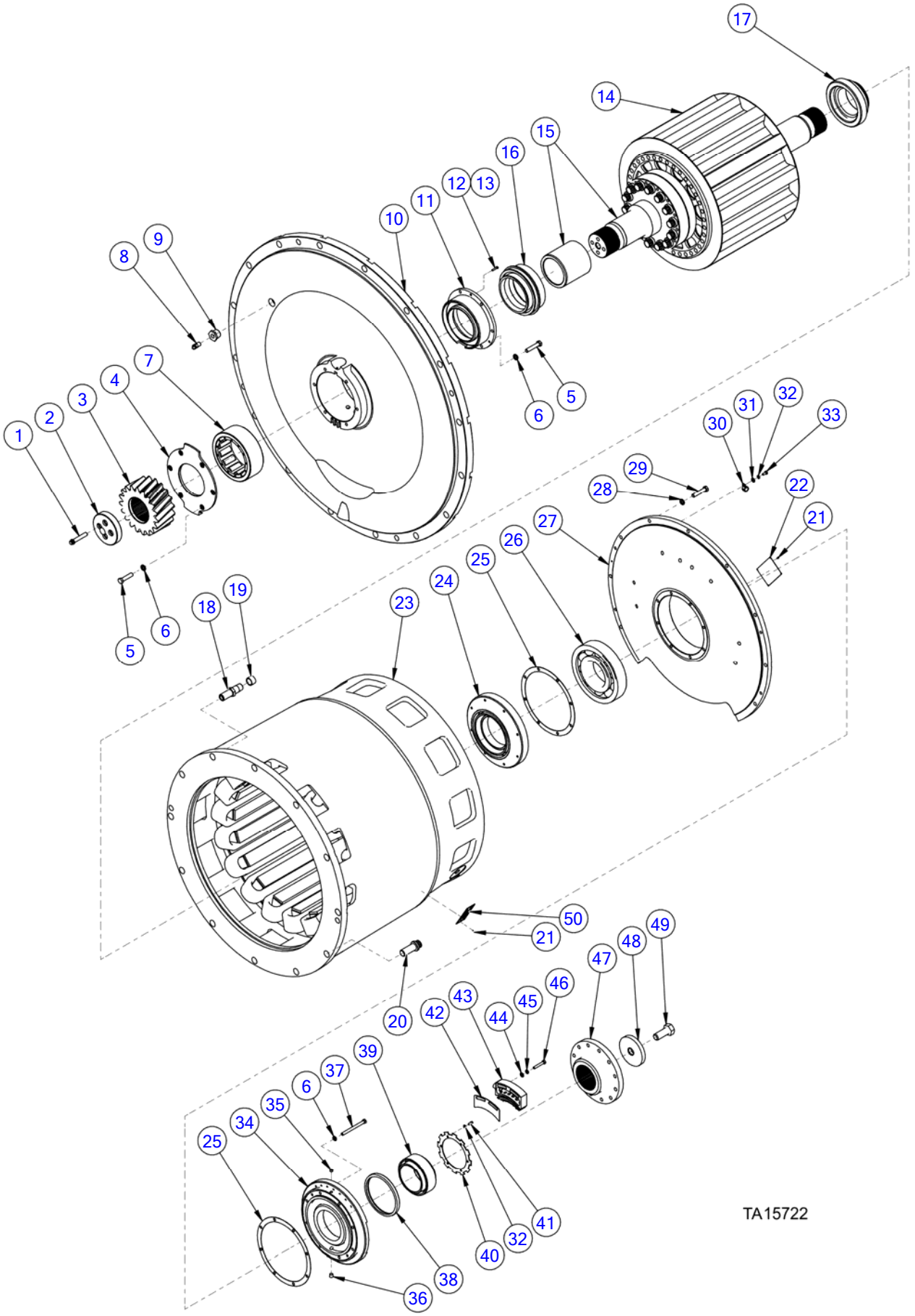
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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B60 MOTOR ASSEMBLY



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B60 MOTOR ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4264710		B60 MOTOR ASSEMBLY		6/15/15
1	R4001875	4	· CAPSCREW, 1/2"-13 X 2-3/4"		
2	R4233849	1	· RETAINER PLATE AND THRUST FACE		
3	R4220810	1	· PINION, MOTOR - 19T-2.70P HELICAL L.H.		
4	R4235537	1	· RETAINER, BEARING - B40 PE OUTBOARD LIP		
5	R0829683	12	· BOLT, 3/8"-16 X 1-3/4"		6/15/15
6	R0753123	20	· LOCKWASHER, 3/8"		6/15/15
7	R4068947	1	· BEARING ASSEMBLY, ROLLER		
8	R4002430	1	· ELBOW, 3/8" MP X 45 deg. X #8 MJ		
9	R4013794	1	· BUSHING, 3/8" FP X 1" MP		
10	R4233784	1	· ENDBELL, B60		
11	R4234540	1	· SEAL, LABYRINTH - B40 MOTOR		
12	R0813012	1	· SCREW, #10-24 X 1"		6/15/15
13	R0459283	AR	· THREAD COMPOUND, LOCTITE #2760		6/15/15
14	R4266761	1	· ROTOR ASSEMBLY, B60		
15	R4233843	1	· · PINION ASSEMBLY, MOTOR - 61T		
	R4233844	1	· · · PINION, MOTOR - 61T		
	R4233845	1	· · · RACE, BEARING (SEE NOTE)		7/11/13
16	R4234541	1	· · SLINGER, INBOARD - J-2		
17	R4264727	1	· · RACE, INNER LABYRINTH - FOR RPT		
	R4002143	14	· · CAPSCREW, 1"-14 X 3-1/4"		7/11/13
18	R4235908	2	· ADAPTER, STUD - 1"-8 X 3/4" MP X 4", HOLLOW		
19	R4150437	2	· CAP, THREADED - 3/4"		
20	R4157321	10	· CAPSCREW, 1"-8 X 2-1/2"		
21	R4032268	12	· SCREW, DRIVE - #2 X 3/16"		
22	R4266663	1	· PLATE, DATA - B60		
23	R4266762	1	· STATOR AND WINDING, B60		
24	R4264728	1	· RETAINER, BEARING - INNER, FOR RPT		
25	R4132065	2	· GASKET, RETAINER		
26	R4243426	1	· BEARING, BALL - INSULATED		
27	R4266767	1	· ENDBELL, MOTOR - B60		
28	R0801181	9	· LOCKWASHER, 1/2"		
29	R4102793	9	· BOLT, 1/2"-13 X 2-1/2"		
30	R4257612	1	· CLAMP, CABLE - INSULATED, 5/8"		
31	R4010923	1	· FLATWASHER, 1/4"		
32	R0213584	7	· LOCKWASHER, 1/4"		
33	R0812278	1	· BOLT, 1/4"-20 X 5/8"		
34	R4264729	1	· RETAINER, BEARING - OUTER, FOR RPT		
35	R0716331	1	· PLUG, PIPE - 1/8", HEX CSK.		
36	R0272969	1	· PLUG, PIPE - 1/4", HEX CSK.		
37	R4009648	8	· BOLT, 3/8"-16 X 4-1/2"		
38	R4264746	1	· SEAL, OIL - 6.000 6.750 .50 V		
39	R4264720	1	· RACE, OUTER LABYRINTH FOR RPT		
40	R4257758	1	· SHUTTER, RPT - G50		
41	R4001801	6	· BOLT, 1/4"-20 X 1/2"		
42	R4259038	1	· SHIM PACK, RPT CARRIER - G50		
43	R4259036	1	· CARRIER ASSEMBLY, RPT - G50		
44	R0753118	2	· FLATWASHER, 5/16"		
45	R0264174	2	· LOCKWASHER, 5/16"		
46	R4009629	2	· BOLT, 5/16"-18 X 2"		
47	R4266657	1	· HUB, BRAKE		
48	R4148327	1	· WASHER, RETAINER		
49	R4009849	1	· BOLT, 1"-14 X 2-1/4"		
50	R4278715	2	· PLATE, LIFT WARNING		
			NOTE:		7/11/13

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			· THE RACE AND PINION P/N'S ARE SUPPLIED FOR REFERENCE ONLY. IT IS NOT A FIELD SERVICEABLE PART.		7/11/13
			· THIS RACE IS SUPPLIED OVERSIZE AND MUST BE GROUND PRECISELY TO THE CORRECT DIAMETER AFTER INSTALLATION ON THE PINION.		7/11/13
			· THE INSTALLATION AND GRINDING PROCESS MUST BE DONE BY YOUR JOY GLOBAL SERVICE CENTER.		7/11/13
		REF	DRAWING, B60 MOTOR ASSEMBLY (426471010)		6/15/15

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L-1850-2210 PARTS MANUAL
Driver Assembly

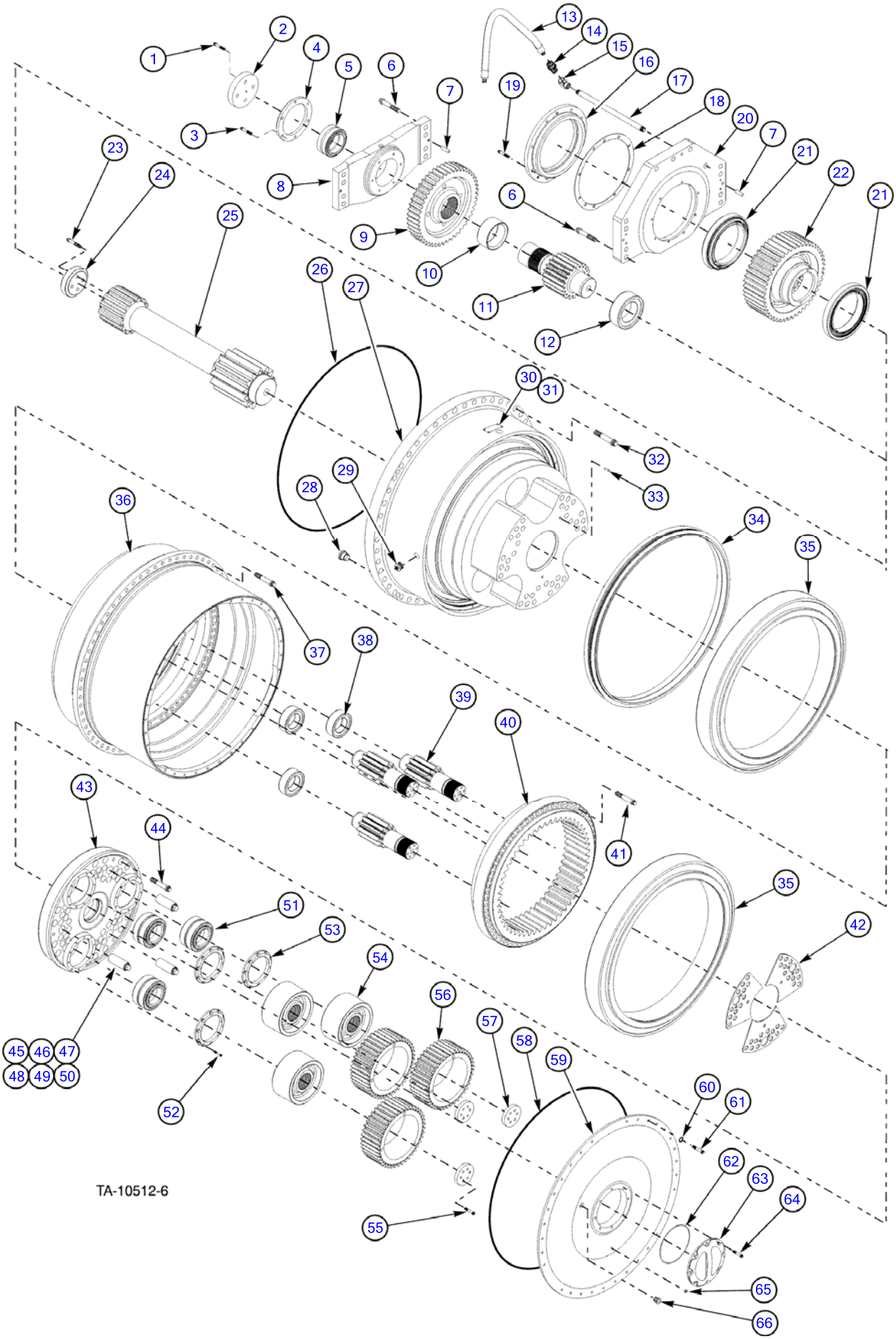
SECTION OR GROUP TITLE
DRIVER ASSEMBLY
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57 DRIVER ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4238781		57 DRIVER ASSEMBLY - 99.24:1		11/12/14
1	R4001875	4	· CAPSCREW, 1/2"-13 X 2-3/4"		
2	R4233983	1	· RETAINER PLATE, BEARING		
3	R4001875	6	· CAPSCREW, 1/2"-13 X 2-3/4"		
4	R4233982	1	· RETAINER, BEARING		
5	R4233643	1	· BEARING ASSEMBLY, TAPER		
6	R4001949	19	· CAPSCREW, 1"-8 X 5-1/2"		
7	R4132633	4	· PIN, DOWEL - 1" X 1-1/2"		
8	N.S.S.	1	· BEARING HOUSING, PRIMARY BEARING (FOR SPINDLE ASSY., SEE NOTE 1)		
9	R4220811	1	· GEAR, PRIMARY - 48T-2.7P		
10	R4233981	1	· SPACER, GEAR		
11	R4220807	1	· PINION, PRIMARY - 20T-2.7P		
12	R4233642	1	· BEARING ASSEMBLY, ROLLER		
13	R4082861	1	· HOSE ASSEMBLY, #8 X 38"		
14	R4002420	1	· ADAPTER, 3/8" MP X #8 MJ		
15	R4032322	1	· ELBOW, 3/8" MP X 90 deg. X 3/8" MP		
16	R4233842	1	· RETAINER, BEARING		
17	R4234545	1	· PIPE, 3/8" X 27-3/8"		
18	R4233595	1	· SHIM PACK		
	R4233994	1	· · SHIM, .015"		
	R4233995	1	· · SHIM, .010"		
	R4233996	2	· · SHIM, .006"		
	R4233997	2	· · SHIM, .005"		
	R4233998	2	· · SHIM, .004"		
19	R4001873	8	· CAPSCREW, 1/2"-13 X 2-1/4"		
20	N.S.S.	1	· BEARING HOUSING, MIDDLE PINION (FOR SPINDLE ASSY., SEE NOTE 1)		
21	R4233644	2	· BEARING ASSEMBLY, TAPER		
22	R4220808	1	· GEAR, 2ND PRIMARY - 47T-2.7P		
23	R4001875	4	· CAPSCREW, 1/2"-13 X 2-3/4"		
24	R4233849	1	· RETAINER PLATE AND THRUST FACE		
25	R4238690	1	· PINION, MIDDLE - 13T-2.12P		
26	R4233592	REF	· O-RING, 45-1/2" I.D. - BUNA N	1	1/15/05
27	N.S.S.	1	· SPINDLE STRUCTURE (FOR SPINDLE ASSY., SEE NOTE 1)		
28	R4213383	1	· PLUG, PIPE - 1-1/16", HEX CSK.		
29	R4013794	4	· BUSHING, 3/8" FP X 1" MP		
	R4013786	4	· BUSHING, 1/8" FP X 3/8" MP		
	R0020315	4	· FITTING, GREASE - 1/8" MP		
30	R4233598	1	· PLATE, NAME - 57 DRIVER		11/19/08
31	R0181073	4	· SCREW, DRIVE - #6 X 3/16"		
	R4233984	1	· PLATE, LUBRICANT IDENTIFICATION - SHC 460		3/31/10
	R4255466	REF	· PLATE, LUBRICANT IDENTIFICATION - SHC 460, PORTUGUESE	1	3/31/10
	R4255336	REF	· PLATE, LUBRICANT IDENTIFICATION - SHC 460, SPANISH	1	6/10/10
	R4271893	REF	· PLATE, LUBRICANT IDENTIFICATION - SHC 460, CHINESE	1	3/15/11
	R4275277	REF	· PLATE, LUBRICANT IDENTIFICATION - SHC 460, FRENCH	1	9/24/11
	R4275305	REF	· PLATE, LUBRICANT IDENTIFICATION - SHC 460, RUSSIAN	1	11/11/11
	R4279627	REF	· PLATE, LUBRICANT IDENTIFICATION - SHC 460, TURKISH	1	4/25/13
32	R4233789	REF	· CAPSCREW, 1-1/4"-12 X 6-1/2"	48	
	R4233222	REF	· CAPSCREW, 1-1/4"-7 X 6"	48	2/23/05
33	R0551322	1	· PIN, ROLLED - 1/2" X 1-1/2"		
34	R4233641	1	· SEAL, MECHANICAL FACE		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4238649	1	· · O-RING, MECHANICAL FACE SEAL - BUNA N		1/15/05
35	R4233640	2	· BEARING ASSEMBLY, TAPERED		
36	R4233788	1	· HUB STRUCTURE		
37	N.P.N.	REF	· CAPSCREW (PAGE 1.14-1.14A)		
38	R4233642	3	· BEARING ASSEMBLY, ROLLER		11/21/02
39	R4220816	3	· PINION, COUNTERSHAFT - 10T-1.705P		
40	R4220817	1	· GEAR, INTERNAL - 53T-1.705P		
41	R4240120	60	· CAPSCREW, 1"-14 X 5-1/2"		
42	R4234992	3	· SHIM, 1/4"		6/16/14
43	N.S.S.	1	· CARRIER, OUTER BEARING (FOR SPINDLE ASSY., SEE NOTE 1)		
44	R4233789	36	· CAPSCREW, 1-1/4"-12 X 6-1/2"		
45	R4184324	3	· DOWEL PIN, EXPANDABLE		
46	R4184325	3	· · PIN, SPLIT - 2-1/2" O.D. X 5"		
47	R4184327	3	· · PIN, TAPERED - OUTER, 7/8"-9		
48	R0021542	3	· · LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
49	R4002116	3	· · CAPSCREW, 3/4"-16 X 4-1/2" (SEE NOTE 4)		11/12/14
50	R4184326	3	· · PIN, TAPERED - INNER, 3/4"-16		
51	R4233599	3	· BEARING ASSEMBLY, TAPERED		
52	R4001873	30	· CAPSCREW, 1/2"-13 X 2-1/4"		
53	R4233980	3	· RETAINER, BEARING		11/21/02
54	R4220819	3	· HUB, COUNTERSHAFT GEAR - 83T-16/32P		
55	R4001897	18	· CAPSCREW, 5/8"-11 X 3-1/2"		4/6/09
56	R4220815	3	· GEAR, COUNTERSHAFT - 41T-2.12P		
57	R4233848	3	· RETAINER PLATE		11/21/02
58	R4233593	1	· O-RING, 45-3/4" I.D. - BUNA N		1/15/05
59	R4233585	1	· COVER STRUCTURE		
60	R0080738	30	· FLATWASHER, 1/2" - COPPER		
61	R4001871	30	· CAPSCREW, 1/2"-13 X 1-3/4"		
62	R4233594	1	· O-RING, 10" I.D. - BUNA N		1/15/05
63	R4233588	1	· COVER, INSPECTION		
	R4273266	1	· · COVER PLATE WITH HANDLE		4/29/14
	R4273267	1	· · BUTTON, HARDENED		4/29/14
	R4001869	2	· · CAPSCREW, 1/2"-13 X 1-1/4"		4/29/14
64	R4001870	8	· CAPSCREW, 1/2"-13 X 1-1/2"		
65	R0272969	1	· PLUG, PIPE - 1/4", HEX CSK.		
66	R2000002	1	· PLUG, PIPE - 1-1/4", SQ. CSK. MAG.		
	R4266671	1	· PLUG, PIPE - 1-1/4", SQ. CSK. - MAGNETIC, PRESSURE RELIEF - SLOTTED		8/3/09
			NOTE 1:		
	R4233799	1	· SPINDLE ASSEMBLY CONSIST OF MATCHED SPINDLE. OUTER BEARING		
			· CARRIER AND PRIMARY PLATE STRUCTURE.		
			· INCLUDES ITEMS 6, 7, 8, 20, 27, 29, 33, 43, 44 & 45		
			NOTE 2:		
	R4234987	REF	· TOOL GROUP, 57 DRIVER ASSEMBLY		11/19/08
	R4234983	REF	· · LIFTING EYE STRUCTURE, DRIVER INTERNAL GEAR	3	
	R4234986	REF	· · PLATE, PULLER - 57 COUNTERSHAFT PINION	3	
	R4229296	REF	· · PLATE, PRESS - 57 COUNTERSHAFT GEAR	3	
	R4229297	REF	· · PLATE, PRESS - 57 COUNTERSHAFT GEAR	3	
	R4234548	REF	· · RING, SEAL INSTALLATION AND SEAL GUARD, 45-3/4" O.D.	1	
	R4234549	REF	· · RING, QUARTER - SEAL PRESS TOOL	4	
	R4009636	REF	· · BOLT, 5/16"-18 X 4-1/2"	8	
	R4009760	REF	· · BOLT, 1/2"-13 X 6"	6	
	R0836034	REF	· · BOLT, 1/2"-13 X 4-1/2"	6	

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4234990	REF	· · ALIGNMENT STUD, 57 DRIVER SEAL	6	
	R4234752	REF	· · TOOL, 57 DRIVER MAIN PINION REMOVAL HUB, 9" O.D. X 2-1/2"	1	
	R4234753	REF	· · TOOL, 57 DRIVER MAIN PINION REMOVAL ARM, 9" O.D. X 46-7/8"	1	
	R4235592	REF	· · LIFTING EYE PLATE, 57 DRIVER SPINDLE	2	
	R0040259	REF	· · BOLT, 1-1/4"-7 X 4-1/2"	6	
	R4235590	REF	· · LIFTING EYE PLATE, 57 DRIVER HUB	2	
	R4217198	REF	· · 57 DRIVER/MOTOR LIFTING FIXTURE	1	
	R4235902	REF	· · LIFTING EYE, TIMKEN BEARING	4	
	R4235593	REF	· · STEP GAUGE	1	
	R4234988	REF	· · ROD, PULLER - 57 DRIVER COUNTERSHAFT	3	
	R4238791	REF	· · PLATE, COUNTERSHAFT PINION & BEARING SEPARATING	1	
	R4238792	REF	· · PLATE, PULLER - COUNTERSHAFT ROLLER BEARING	1	
	R4238793	REF	· · PLATE, SUPPORT - 57 COUNTERSHAFT ROLLER	1	
	R4238794	REF	· · BAR, PULLER - 57 DRIVER SPINDLE BEARING	1	
			NOTE 3:		8/3/09
			· SLOTTED PRESSURE RELIEF PLUG R4266671 IS RECOMMENDED		8/3/09
			· FOR USE IN CHECKING OIL LEVEL AND DRAINING PROCEDURES.		8/3/09
			NOTE 4:		11/12/14
			· IN THIS APPLICATION R4009830 BOLT, 3/4"-16 X 4-1/2"		11/12/14
			· IS REPLACED BY R4002116 CAPSCREW, 3/4"-16 X 4-1/2"		11/12/14

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L-1850-2210 PARTS MANUAL
Hydraulic And Air Operated Components

SECTION OR GROUP TITLE
FLUID POWER GROUP
DUAL CONTROL VALVE ASSEMBLY
SINGLE CONTROL VALVE ASSEMBLY
OIL COOLER CONTROL VALVE ASSEMBLY
RADIATOR - OIL COOLER AND FAN ASSEMBLY
PROPORTIONAL AND RELIEF MANIFOLD ASSEMBLY
REAR ACCESSORY VALVE ASSEMBLY
HYDRAULIC CROSSOVER TUBES
STEER CYLINDER ASSEMBLY
HOIST CYLINDER ASSEMBLY
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 ASSEMBLY
FRONT FRAME HYDRAULIC PANEL HARDWARE GROUP
FRONT FRAME HYDRAULIC PANEL HOSE GROUP
AIR BOX ASSEMBLY
AIR TANK STAND ASSEMBLY
FRONT AIR RESERVOIR ASSEMBLY
DRIVER FILTRATION MOTOR/PUMP 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
FRONT FRAME PRESSURE AND RETURN MANIFOLD GROUP
CYLINDER PRESSURE TRANSDUCER ASSEMBLY
SUCTION FILTER ASSEMBLY
DRIVER FILTER ASSEMBLY
OIL COOLER VALVE ASSEMBLY
PUMP PRESSURE TRANSDUCER ASSEMBLY
STEERING VALVE SUB-ASSEMBLY
REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP
AIR DRYER & GOVERNOR ASSEMBLY
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FLUID POWER GROUP

HOSE ASSEMBLIES

DESIGNATION	DESCRIPTION
0J	0° JIC END FITTING
45J	45° JIC END FITTING
90J	90° JIC END FITTING
90JL	90° JIC LONG DROP END FITTING
0F	0° SPLIT FLANGE END FITTING
45F	45° SPLIT FLANGE END FITTING
90F	90° SPLIT FLANGE END FITTING
90FJ	90° SPLIT FLANGE JUMPSIZE END FITTING

DESIGNATOR	DESCRIPTION
CV	CHECK VALVE
FC	FLOW CONTROL
P	PUMP
PS	PRESSURE SWITCH
PT	PRESSURE TRANSDUCER
RV	RELIEF VALVE
SOL	SOLENOID
SS	SHOCK SUPPRESSOR
SV	SEQUENCE VALVE
TP	TEST PORT

FITTINGS

DESIGNATION	DESCRIPTION
FJ	FEMALE JIC
FP	FEMALE PIPE (NPT)
MJ	MALE JIC
MO	MALE O-RING
MP	MALE PIPE (NPT)
SF	SPLIT FLANGE

#24 SP4 SET	400-9759	BOLT HX .500-5.500 NC G8	
	421-0349	WASHER FLAT .500 .75 .13 HRD	
	406-8358	O-RING 1-1/2 SAE SPLIT FLANGE	
	418-6401	FLANGE HALF 1-1/2 SAE	
#24 SP3 SET	400-9758	BOLT HX .500-5.000 NC G8	
	421-0349	WASHER FLAT .500 .75 .13 HRD	
	406-8358	O-RING 1-1/2 SAE SPLIT FLANGE	
	418-6401	FLANGE HALF 1-1/2 SAE	
#24 SP2 SET	400-9755	BOLT HX .500-3.250 NC G8	
	421-0349	WASHER FLAT .500 .75 .13 HRD	
	406-8358	O-RING 1-1/2 SAE SPLIT FLANGE	
	418-6401	FLANGE HALF 1-1/2 SAE	
#24 SP1 SET	082-7222	BOLT HX .500-2.000 NC G8	
	421-0349	WASHER FLAT .500 .75 .13 HRD	
	406-8358	O-RING 1-1/2 SAE SPLIT FLANGE	
	418-6401	FLANGE HALF 1-1/2 SAE	
#20 SP3 SET	400-9518	BOLT HX .438-4.000 NC G8	
	421-0348	WASHER 7/16 HARDENED	
	406-8357	O-RING 1-1/4 SAE SPLIT FLANGE	
	418-6400	FLANGE HALF 1-1/4 SAE	
#20 SP2 SET	412-2903	BOLT HX .438-3.000 NC G8	
	421-0348	WASHER 7/16 HARDENED	
	406-8357	O-RING 1-1/4 SAE SPLIT FLANGE	
	418-6400	FLANGE HALF 1-1/4 SAE	
#20 SP1 SET	421-3614	BOLT HX .438-1.750 NC G8	
	421-0348	WASHER 7/16 HARDENED	
	406-8357	O-RING 1-1/4 SAE SPLIT FLANGE	
	418-6400	FLANGE HALF 1-1/4 SAE	
#16 SP5 SET	080-1173	BOLT HX .375-3.250 NC G8	
	421-0347	WASHER 3/8 HARDENED	
	410-5005	O-RING 1 SAE SPLIT FLANGE	
	418-6491	FLANGE HALF 1 SAE	
#16 SP4 SET	424-3937	BOLT HX M12 X 1.75 X 45.0 (1.77)	
	421-0347	WASHER 3/8 HARDENED	
	410-5005	O-RING 1 SAE SPLIT FLANGE	
	422-2102	FLANGE HALF 1 SAE CODE 62	
#16 SP3 SET	421-3614	BOLT HX .438-1.750 NC G8	
	421-0348	WASHER 7/16 HARDENED	
	410-5005	O-RING 1 SAE SPLIT FLANGE	
	426-9658	FLANGE HALF 1.00 FORGED C62	
#16 SP2 SET	424-4758	BOLT HX M12 X 1.75 X 70 (2.75)	
	421-0347	WASHER 3/8 HARDENED	
	410-5005	O-RING 1 SAE SPLIT FLANGE	
	422-2102	FLANGE HALF 1 SAE CODE 62	
#16 SP1 SET	082-9683	BOLT HX .375-1.750 NC G8	
	421-0347	WASHER 3/8 HARDENED	
	410-5005	O-RING 1 SAE SPLIT FLANGE	
	418-6491	FLANGE HALF 1 SAE	
#12 SP5 SET	080-8476	BOLT HX .375-1.250 NC G8	
	421-0347	WASHER 3/8 HARDENED	
	410-5004	O-RING .139 .98 .95D PY	
	400-2219	FLANGE HALF 3/4 SAE CODE 61	
	083-6048	BOLT HX .375-1.500 NC G8	
#12 SP4 SET	421-0347	WASHER 3/8 HARDENED	
	410-5004	O-RING .139 .98 .95D PY	
	400-2219	FLANGE HALF 3/4 SAE CODE 61	
	080-9683	BOLT HX .375-1.750 NC G8	
#12 SP3 SET	421-0347	WASHER 3/8 HARDENED	
	410-5004	O-RING .139 .98 .95D PY	
	422-3431	FLANGE HALF 3/4 SAE CODE 62	
	080-8476	BOLT HX .375-1.250 NC G8	
#12 SP2 SET	421-0347	WASHER 3/8 HARDENED	
	410-5004	O-RING .139 .98 .95D PY	
	422-3431	FLANGE HALF 3/4 SAE CODE 62	
#12 SP1 SET	400-1845	CSCR FH .375-4.00 NC G8	
	421-0347	WASHER 3/8 HARDENED	
	410-5004	O-RING .139 .98 .95D PY	
	422-3453	FLANGE HALF 3/4 SAE CODE 62	
#32 SP5 SET	082-7222	BOLT HX .500-2.000 NC G8	
	421-0349	WASHER FLAT .500 .75 .13 HRD	
	407-1255	O-RING 2 SAE SPLIT FLANGE	
	418-6402	FLANGE HALF 2 SAE	
#32 SP4 SET	400-9753	BOLT HX .500-1.500 NC G8	
	421-0349	WASHER FLAT .500 .75 .13 HRD	
	407-1255	O-RING 2 SAE SPLIT FLANGE	
	422-3453	FLANGE HALF 2 SAE	
#32 SP3 SET	082-7222	BOLT HX .500-2.000 NC G8	
	421-0349	WASHER FLAT .500 .75 .13 HRD	
	407-1255	O-RING 2 SAE SPLIT FLANGE	
	418-6402	FLANGE HALF 2 SAE	
#24 SP5 SET	422-2260	BOLT HX .500-5.750 NC G8	
	421-0349	WASHER 1/2 HARDENED	
	406-8358	O-RING 1-1/2 SAE SPLIT FLANGE	
	418-6401	FLANGE HALF 1-1/2 SAE	
ITEM	PART NO.	DESCRIPTION	

SPLIT FLANGE SETS

	417-7038	FTG HYD TE .6 MJ .6 MJ .6 FJ	
	424-1590	FTG HYD TE 16 FP 16 FP 16 FP	
	426-1626	FTG HYD TE .6 FO .6 FO .6 FO	
	426-1625	FTG HYD TE .6 MO .6 FO .6 FO	
	401-3077	FTG HYD TE .8 MJ .8 MJ .8 MO	
	411-6494	FTG HYD TE .8 MJ .8 MO SP	
	407-8968	FTG HYD TE .8 MJ .8 FJ .8 MJ	
	406-3332	FTG HYD TE .4 MJ .4 MJ .4 FJ	
	404-3032	FTG HYD TE .6 MJ .6 MJ .6 MO	
	410-3064	FTG HYD TE .6 MJ .6 MO .6 MJ	
	403-1446	FTG HYD TE .4 FP .4 FP .4 FP	
	415-4486	FTG HYD TE .6 MJ .6 FJ .6 MJ	
	402-0762	FTG HYD TE .8 MJ .8 MO .8 MJ	
ITEM	PART NO.	DESCRIPTION	

TEES

S21	426-7979	O-RING .139 1.23 95D PY	
S20	400-2283	O-RING .116 .92 90D BUNA	
S19	424-4771	O-RING .139 3.23 90D VI 236	
S18	425-7212	O-RING .139 3.98 90D VI 242	
S17	410-5004	O-RING .139 .98 95D PY	
S16	411-6301	O-RING 2-1/2 SAE SPLIT FLANGE	
S15	401-6121	BACKUP RING, 2.734 3.012 .050	
S14	424-4772	O-RING .139 5.68 90D VI 258	
S13	423-6946	SEAL (GASKET) 9.13 ID	
S12	412-3586	QUAD SEAL RING .139 X 4.359 ID	
S11	407-1255	O-RING 2 SAE SPLIT FLANGE	
S10	424-4637	O-RING .139 6.48 70D N 495	
S9	406-8358	O-RING 1-1/2 SAE SPLIT FLANGE	
S8	406-8357	FLANGE SEAL 1-1/4 SAE SPLIT FLANGE	
S7	412-3584	QUAD RING SEAL 3	
S6	410-5005	FLANGE SEAL 1 SAE SPLIT FLANGE	
S5	415-4858	O-RING .139 2.63 90D PY	
S4	412-3585	QUAD RING SEAL .139 3.859 70D	
S3	412-1119	GASKET FILLER NECK	
S2	424-8998	O-RING .275 18.46 70D N 466	
S1	406-8930	O-RING .139 4.86 90D VITON	
ITEM	PART NO.	DESCRIPTION	

SEALS

	426-7483	PLUG T-19A	
	407-7099	PLUG HX 20 MO	
	401-3958	PLUG PIPE 1.000 CS SQ MAGNETIC	
	426-1677	PLUG HOLLOW HEX 6 MO	
	424-1329	PLUG O-RING 2 HOLLOW HEX	
	401-3778	PIPE PLUG 1/8 NPT HEX HEAD	
	422-3340	PIPE PLUG 1 NPT HEX HEAD	
	400-8733	SF PLUG 1-1/4	
	424-3929	PLUG HOLLOW HEX 4 MO	
	424-3927	PLUG HOLLOW HEX 8 BSPP	
	400-8732	PLUG 1 SF	
	422-3346	PIPE PLG 1.250 OH HEX	
	402-0769	PLUG HX .8 MO	
	404-0567	PLUG HX .16 MO	
	401-3958	PIPE PLG 1.000 CS SQ MAGNETIC	
	403-1553	PLUG HX 12 MO	
	027-2969	PIPE PLG .250 CS HX	
	401-3779	PIPE PLUG, HH 1/4 NPT	
	401-3780	PIPE PLG .375 OH HX	
	402-0770	PLUG HX .4 MO	
	403-0061	PLUG HX .6 MO	
	422-3338	PIPE PLG .500 OH HEX	
	401-3957	PIPE PLG .750 CS SQ MAGNETIC	
	400-8734	PLUG 1-1/2 SF	
	041-6273	PLUG 3/4 NPT BREATHER	
	422-3339	PIPE PLG .750 OH HEX	
ITEM	PART NO.	DESCRIPTION	

PLUGS

M35	694-5598	PIPE NIPPLE 1" NPT	
M34	401-3799	PIPE BUSHING 1.250 1.000 6.000	
M33	018-8841	PIPE COUPLING STD 1/2 NPT	
M32	407-7008	BUSHING 1-1/4 O-RING X 1/2 NPTF	
M31	426-1627	CHECK VALVE FTG .6 MJ .6 MO	
M30	422-3016	COUPLER MALE ASY .4 MP	
M29	426-1624	FTG HYD 1/16 ORIFICE .4 MJ .6 MO	
M28	416-1034	HOSE, 1-1/4 I.D. X .3	
M27	422-3013	COUPLER MALE ASSY 6 MO 90°	
M26	424-1063	SUCTION TUBE	
M25	416-3818	HOSE 6 I.D. X .8	
M24	424-1391	SUCTION TUBE	
M23	424-1095	STR SUCTION SUCTION TUBE FRONT	
M22	403-2312	PIPE HYD NIP .6 MP .6 MP HX	
M21	422-3014	COUPLER MALE ASSY .8 MO	
M20	021-4976	PIPE ELBOW 3/4" NPT	
M19	424-3516	FTG HYD .0 .24 MO 12 FO	
M18	422-3017	COUPLER MALE ASY 4MP 90	
M17	423-8133	SUCTION FLANGE STR	
M16	423-7927	SUCTION FLANGE STR 3.00	
M15	424-1047	SUCTION TUBE REAR 3.50 O.D.	
M14	424-1061	SUCTION TUBE	
M13	424-1390	SUCTION FLANGE	
M12	416-2338	HOSE 3.5 I.D. X .6	
M11	423-8609	HOSE 3 I.D. X .6	
M10	410-3836	FTG HYD .0 .8 MO .6 FO	
M9	418-9392	SUCTION TUBE	
M8	422-3018	COUPLER MALE ASY 6MO	
M7	422-3016	COUPLER MALE ASY 4MP	
M6	424-1052	STR SUCTION TUBE REAR	
M5	412-3236	PIPE HYD NIPPLE - 3/4 NPT	
M4	403-0298	PIPE NIPPLE, HYD .4 MP .4 MP HX	
M3	403-2507	PIPE REDUCER 1/2 X 3/8	
M2	416-8910	HOSE 4-1/2 I.D. X .6	
M1	423-7926	SUCTION FLANGE	
ITEM	PART NO.	DESCRIPTION	

MISC FITTINGS

H19	400-1875	CAPSCREW 1/2 UNC X 2-3/4	
H18	400-1842	CSCR FH .375 2.50 NC	
H17	080-8598	BOLT HX .500 2.750 ND G8	
H16	424-3939	CSCR FH M16 X 2.00 X 38.0 1.50	
H15	082-7222	BOLT HX 1/2 UNC X 2 G8	
H14	002-1542	LOCK WASHER 3/4	
H13	401-6046	FLAT WASHER 3/4	
H12	400-9524	BOLT HX 3/4 UNC X 1-3/4 G8 FT	
H11	082-9683	BOLT HX 3/8 UNC X 1-3/4 G8	
H10	424-3747	CAPSCREW SOC HX 7/16 X 1-1/2 UNC	
H9	411-6072	CAPSCREW 9/2 UNC X 1-1/4	
H8	400-1873	CAPSCREW 1/2 UNC X 2-1/4	
H7	412-2903	BOLT, 7/16NC X 3 G8	
H6	421-0349	WASHER 1/2 HARDENED	
H5	400-1877	CSCR FH .500 3.250 NC G8	
H4	415-2343	CSCR FH .500 3.500 NC G8	
H3	400-1883	CSCR FH .500 6.000 NC G8	
H2	421-0347	FLAT WASHER 3/8	
H1	400-9760	BOLT HX .500 6.000 NC G8	
ITEM	PART NO.	DESCRIPTION	

HARDWARE

E46	417-2129	STR ELB-SAE-2-90°-C61-80	
E45	427-1108	FTG HYD 45 12 SF 12 MJ	
E44	400-2438	FTG HYD 90 .6 MJ .4 MP	
E43	426-4809	FTG HYD 90 .8 MJ 18 MMO	
E42	400-2443	FTG HYD 90 16 MJ 16 MP	
E41	400-2475	FTG HYD 90 16 MJ 16 MO	
E40	413-9699	FTG HYD 90 .4 MJ .4 FJ SWVL	
E39	421-0880	FTG HYD 90 12 MJ 16 MO JUMP	
E38	404-0556	FTG HYD 90 16 MJ 12 MO JUMP	
E37	401-1746	FTG HYD 90 .6 MJ .6 MP JUMP	
E36	424-4689	FTG HYD 90 12 MJ 12 FJ MOD	
E35	400-2479	FTG HYD 90 .8 MJ .8 FJ	
E34	424-3567	FTG HYD 90 .4 MJ 12 MM	
E33	400-2439	FTG HYD 90 .8 MJ .6 MP	
E32	425-5268	ELB ST-SAE-1 1/4-90°-C61-160	
E31	450-6555	FTG HYD 90 .8 MJ 10 MO	
E30	424-3981	FTG HYD 90 .6 MJ 16 MM	
ITEM	PART NO.	DESCRIPTION	

ELBOWS

E29	403-2321	FTG HYD 90 .4 FP .4 FP	
E28	403-1400	PIPE HYD ST ELB 90 .4 MP .4 FP	
E27	408-1386	FTG HYD 90 12 MJ 10 MO	
E26	424-4735	FTG HYD 90 16 MP 16 MP	
E25	404-0553	FTG HYD 90 .8 MJ .6 MO	
E24	424-8951	ASSY ORIFICE .062 90 6MJ 6MO	
E23	404-0554	FTG HYD 90 .8 MJ 12 MO JUMP	
E22	425-5263	ELB ST-SAE-1 1/2-90°-C61-160	
E21	400-2483	FTG HYD 90 16 MJ 16 FJ SWV	
E20	400-2471	FTG HYD 90 .8 MJ .8 MO	
E19	400-2481	FTG HYD 90 12 MJ 12 FJ SWVL	
E18	401-7400	FTG HYD 90 .6 MJ .8 MO JUMP	
E17	401-4581	FTG HYD 90 .4 MJ .4 MO	
E16	401-1748	FTG HYD 90 .4 MJ .4 MP JUMP	
E15	405-6022	FTG HYD 90 20 MJ 16 MO JUMP	
E14	403-2325	FTG HYD 90 .8 MP .8 FP STREET	
E13	400-2478	FTG HYD 90 .6 MJ .6 FJ SWVL	
E12	400-2476	FTG HYD 90 20 MJ 20 MO	
E11	424-1246	FTG HYD 90 12 MJ 8 MO JUMP	
E10	400-2473	FTG HYD 90 12 MJ 12 MO	
E9	400-2471	FTG HYD 90 .8 MJ .8 MO	
E8	400-2470	FTG HYD 90 .6 MJ .6 MO	
E7	400-2467	FTG HYD 45 16 MJ 16 MO	
E6	425-5270	ELB ST-SAE-1 1/2-90°-C61-160	
E5	411-6444	FTG HYD 90 .4 MJ .4 FJ	
E4	424-3565	FTG HYD 90 .8 MJ 14 MMO	
E3	425-5264	ELB ST-SAE-1 1/2-45°-C61-160	
E2	407-6637	TAPPED STREET ELBW-90° 3/8	
E1	404-0552	FTG HYD 90 .4 MJ .6 MO JUMP	
ITEM	PART NO.	DESCRIPTION	

ELBOWS

A51	426-7478	FTG HYD .0 12 MO 12 MO (REF)	
A50	424-3980	FTG HYD .0 .6 MJ 12 MM	
A49	426-1726	FTG HYD .0 .8 MJ 12 FP	
A48	401-7914	FTG HYD .0 .8 MJ .8 MJ UNN	
A47	424-4690	FTG HYD .0 24 MP 16 FO	
A46	403-0297	FTG HYD .0 .2 MP .2 MP	
A45	405-0408	FTG HYD .0 12 MJ 16 MO	
A44	400-2461	FTG HYD .0 24 MJ 24 MO	
A43	403-0078	FTG HYD .0 .8 MO .8 MO	
A42	423-7965	FTG HYD .0 .6 MJ .5 MO	
A41	405-7053	BUSHING RED 3/8 FP X 5/8 MO	
A40	401-1756	FTG HYD 90 .8 MJ 6 MP JUMP	
A39	404-0561	FTG HYD .0 12 MJ 16 MP	
A38	403-0078	FTG HYD .0 .8 MO .8 MO	
A37	404-0557	FTG HYD .0 .6 MJ .8 MP	
A36	401-5753	FTG HYD .0 12 MJ 8 MP	
A35	400-2425	FTG HYD .0 20 MJ 20 MP	
A34	400-2424	FTG HYD .0 16 MJ 16 MP	
A33	424-3936	FTG HYD .0 12 MO .4 MJ	
A32	424-3928	FTG HYD .0 .8 MJ .8 BSPP	
A31	417-2327	FTG HYD .0 12 MJ 12 FP	
A30	500-1457	FTG HYD .0 .4 MJ .6 FJ	
A29	405-0166	FTG HYD .0 16 MJ 12 MP	
A28	411-6765	FTG HYD .0 .8 MO .8 FJ	
A27	424-1311	FLANGED CONNECTOR CODE 62	
A26	424-4734	FTG HYD .0 20 MO .16 FP	
A25	403-9497	FTG HYD .0 12 MJ 12 MJ UNN	
A24	404-0550	FTG HYD .0 .8 MJ 12 MO JUMP	
A23	417-2439	ADPT 1-1/2 S.F. X 1 SAE	
A22	405-1567	FTG HYD .0 6 MO .4 MP	
A21	404-0562	CONN-STR ADPT 3/8 NPT X 1/4 JIC	
A20	412-9458	FTG HYD .0 .6 MJ .8 FJ SWV	
A19	097-9632	FTG HYD .0 .4 MJ .2 MP	
A18	402-0774	FTG HYD .0 .4 MJ .8 MO JUMP	
A17	402-0772	FTG HYD .0 .8 MJ .6 MO JUMP	
A16	402-0771	FTG HYD .0 .6 MJ .8 MO	
A15	401-8666	FTG HYD .0 .8 MJ .8 MP JUMP	
A14	401-6785	FTG HYD .0 .4 MJ .4 MP	
A13	425-6310	FTG HYD .0 .8 MP 12 MP	
A12	401-4580	FTG HYD .0 .4 MJ .4 MO	
A11	401-3080	FTG HYD .0 .8 MO 12 MJ	
A10	407-4094	FTG HYD .0 12 MJ 20 MO JUMP	
A9	400-2460	FTG HYD .0 20 MJ 20 MO	
A8	400-2459	FTG HYD .0 16 MJ 16 MO	
A7	400-2457	FTG HYD .0 12 MJ 12 MO	
A6	400-2455	FTG HYD .0 8 MJ .8 MO	
A5	400-2454	FTG HYD .0 6 MJ .6 MO	
A4	403-9499	FTG HYD .0 .4 MJ .6 MO JUMP	
A3	402-1412	FTG HYD .0 10 MO .12 MJ	
A2	400-2420	FTG HYD .0 8 MJ .6 MP	
A1	052-7116	FTG HYD .0 6 MJ .4 MP	
ITEM	PART NO.	DESCRIPTION	

ADAPTERS

	415-0749	HOSE 5000 4 130 .0 0J 0J	
	413-3373	HOSE 5000 4 120 .0 0J 0J	
	426-7509	HOSE 300 12 11 .0 0J 90J	
	414-1620	HOSE 4000 6 26 .0 0J 90J	
	418-6478	HOSE 5000 32 124 .0 0F 90F L2	
	427-7996	HOSE 5000 20 62 .0 0F 90F	
	427-0917	HOSE 2500 32 66 .0 0F 90F	
	422-3475	HOSE 375 32 95 .0 0F 90F	
	424-3919	HOSE 625 20 25 .0 0J 45F	
	422-3142	HOSE 5000 24 88 .0 0F 90FHDL1	
	427-0962	HOSE 5000 32 115 .0 0F 90F L2	
	427-0957	HOSE 5000 12 58 .0 0J 45FJ 180J	
	422-2191	HOSE 5000 24 68 .0 0F 90F HDL1	
	415-0735	HOSE 5000 4 80 .0 0J .0J	
	417-7430	HOSE 1250 12 104 .0 0J 90J	
	424-3530	HOSE 1250 12 22 .0 0J 90J	
	415-4485	HOSE 1000 16 38 .0 0J 0J	
	-		
	424-3743	HOSE 2750 4 131 .0 0J 0J	

FITTINGS

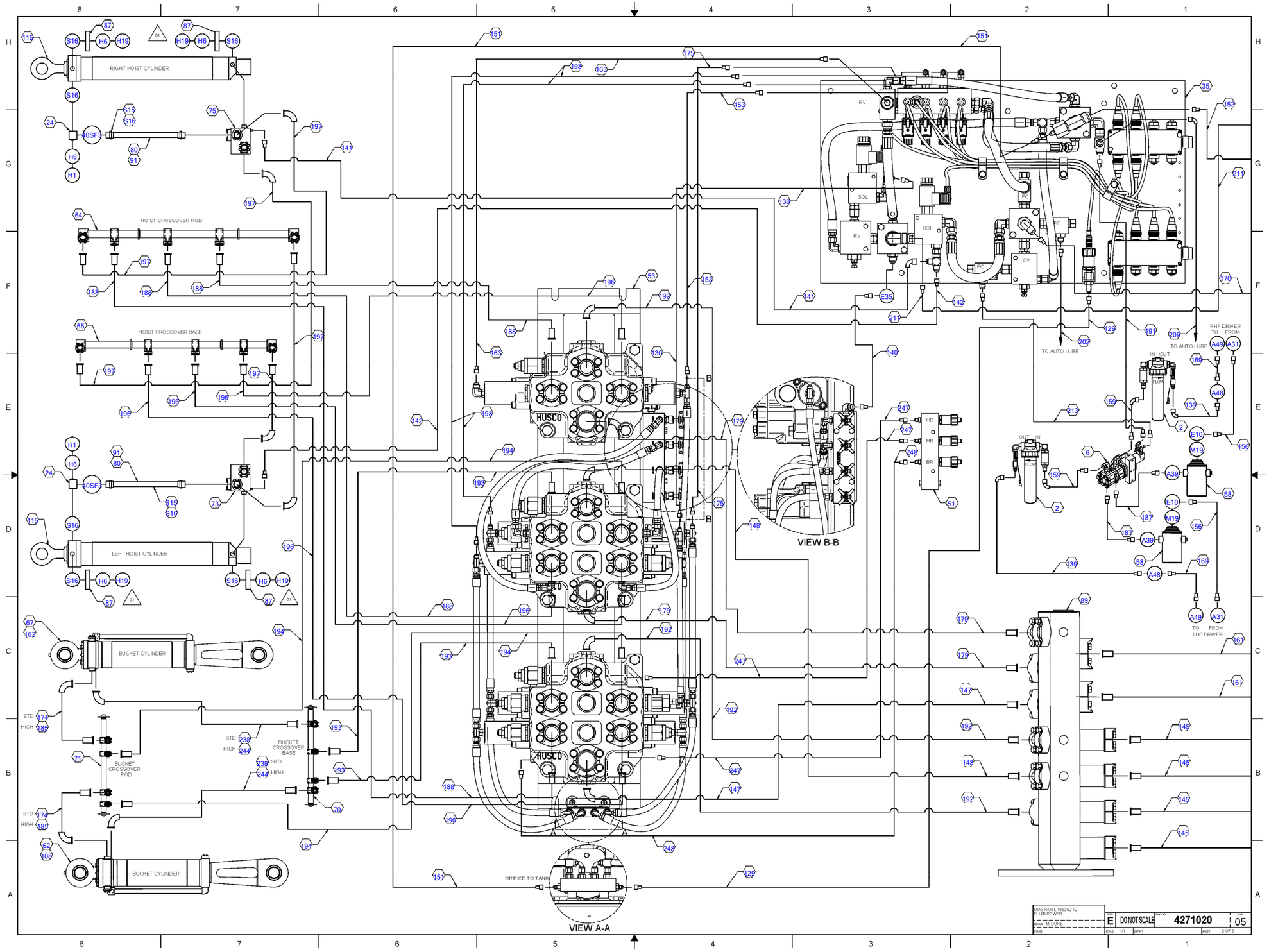
112	415-0749	HOSE 5000 4 130 .0 0J 0J	
113	-		
114	-		
115	424-3518	GP HOIST CYL	
116	424-4941	FILTER ELEMENT BREATHER	
117	425-4490	ADAPTER TANK BREATHER	
118	-		
119	-		
120	425-4488	BREATHER FILTER MT STR LG	
121	-		
122	422-3243	HOSE 1000 16 43 .0 0J 90J	
123	415-1428	HOSE 1000 16 42 .0 0J 0J	
124	422-2273	HOSE 4250 8 52 .0 0J 90J	
125	422-3097	HOSE 5000 16 54 .0 0F 90FJ	
126	422-3091	HOSE 5000 16 46 .0 0F 90FJ	
127	416-6076	HOSE 2750 4 34 .0 0J 90J	
128	424-4714	HOSE 5000 20 36 .0 0F 45F	
129	415-0753	HOSE 5000 4 148 .0 0J 0J	
130	697-1718	HOSE 5000 4 58 .0 0J 0J	
131	408-2855	HOSE 2000 8 278 .0 0J 0J	
132	422-2042	HOSE 3000 20 44 .0 90F 90F	
133	424-3503	HOSE 4250 8 25 .0 0J 90J	
134	424-3923	HOSE 625 20 32 .0 0J 90J	
135	-		
136	424-3933	HOSE 625 20 121 .0 0J 0J	
137	426-5264	HOSE 625 20 40 .0 0J 90J	
138	417-2292	HOSE 1250 12 28 .0 0J 90J	
139	417-7057	HOSE 2000 8 82 .0 0J 90J	
140	408-2862	HOSE 2000 8 50 .0 0J 0J	
141	417-1609	HOSE 4000 6 112 .0 0J 0J	
142	415-8757	HOSE 4000 6 162 .0 0J 0J	
143	409-8409	HOSE 2000 8 102 .0 0J 0J	
144	422-3309	HOSE 2250 6 90 .0 0J 90J	
145	422-2185	HOSE 5000 24 55 .0 0F 0F HD	
146	424-4780	HOSE 1250 12 316 .0 0J 0J	
147	421-3833	HOSE 2500 32 72 .0 0F 90F L1	
148	424-4780	HOSE 1250 12 316 .0 0J 0J	
149	418-6444	HOSE HYD 3/4" ID GEN PURPOSE (REF)	
150	-		
151	409-6672	HOSE 2750 4 142 .0 0J 0J	
152	422-2292	HOSE 1250 12 288 .0 0J 0J	
153	403-4906	HOSE 2250 6 60 .0 0J 0J	
154	424-3727	HOSE 5000 16 90 .0 0F 90F C62	
155	426-1672	HOSE 500 24 23 .0 0J 45F	
156	409-6720	HOSE 1250 12 72 .0 0J 0J	
157	-		
158	-		
159	422-3266	HOSE 1250 12 140 .0 0J 90J	
160	-		
161	422-3414	HOSE 1200 40 59 .0 0F 0F P	
162	-		
163	415-2957	HOSE 2000 8 63 .0 0J 0J	
164	-		
165	427-0916	HOSE 4000 6 140 .0 0J 90J	
166	412-4916	HOSE 2750 4 40 .0 0J 0J	
167	418-6041	HOSE 1250 12 121 .0 0J 0J	
168	415-0727	HOSE 5000 4 56 .0 0J 0J	
169	422-2295	HOSE 2000 8 140 .0 0J 0J	
170	419-8244	HOSE 4250 8 184 .0 0J 0J	
171	-		
172	414-3736	HOSE 4000 6 20 .0 0J 0J	
173	426-1671	HOSE 4000 16 52 .0 0J 45F	
174	427-0963	HOSE 5000 32 115 .0 0F 90F L4	
175	409-7827	HOSE 2250 6 58 .0 0J 0J	
176	424-4743	HOSE 5000 20 110 .0 0F 0F	
177	-		
178	412-1659	HOSE 1250 12 138 .0 0J 0J	
179	421-3834	HOSE 2500 32 60 .0 0F 90F L1	
180	415-5550	HOSE 4000 6 120 .0 0J 90J	
181	426-1642	HOSE 2500 24 96 .0 0F 45F	
182	427-0953	HOSE 2500 24 75 .0 0F 0F	
183	424-4745	HOSE 375 32 75 .0 0F 0F	
184	412-9106	HOSE 4000 6 24 .0 0J 0J	
185	422-3472	HOSE 5000 32 124 .0 0F 90F L4	
186	424-4716	HOSE 5000 20 36 .0 0F 45F	
187	418-2364	HOSE 1250 12 17 .0 0J 0J	
188	422-2188	HOSE 5000 24 73 .0 0F 0F HD	
189	424-3527	HOSE 4000 16 96 .0 0J 90F	
190	426-1766	HOSE 4000 6 340 .0 0J 0J	
191	401-7540	HOSE 2000 8 118 .0 0J 0J	
192	422-2192	HOSE 5000 24 72 .0 0F 90FHDL1	
193	422-2263	HOSE 5000 24 45 .0 0F 0F HD	
194	410-3608	HOSE 5000 24 48 .0 0F 0F HD	
195	412-2872	HOSE 5000 4 70 .0 0J 0J	
196	422-2186	HOSE 5000 24 68 .0 0F 0F HD	
197	417-2274	HOSE 5000 32 86 .0 0F 90FL3	
198	408-0310	HOSE 2250 6 92 .0 0J 0J	
199	698-9042	HOSE 5000 4 50 .0 0J 0J	
200	424-3616	HOSE 4000 6 150 .0 0J 0J	
201	408-2856	HOSE 2000 8 152 .0 0J 0J	
202	698-2816	HOSE 4000 6 158 .0 0J 0J	
203	411-9113	HOSE 2000 8 262 .0 0J 0J	
204	416-2137	HOSE 5000 4 62 .0 0J 0J	
205	424-3736	HOSE 200 20 44 .0 0J 90J	
206	-		
207	424-4950	HOSE 300 12 13 .0 0J 0J	
208	422-3475	HOSE 375 32 95 .0 0F 90F	
209	417-7390	HOSE 2000 8 152 .0 0J 90J	
210	424-3745	HOSE 4000 6 176 .0 0J 0J	
211	424-3738	HOSE 1250 12 300 .0 0J 0J	
212	412-9107	HOSE 4000 6 26 .0 0J 0J	
213	415-5732	HOSE 4000 6 104 .0 0J 0J	
214	422-2189	HOSE 5000 24 58 .0 0F 90FHDL1	
215	426-1643	HOSE 5000 4 350 .0 0J 0J	
216	427-0947	HOSE 4000 6 120 .0 0J 0J	
217	422-3475	HOSE 375 32 95 .0 0F 90F	
218	418-6148	HOSE 1250 12 342 .0 0J 90J	
219	419-3525	HOSE 5000 4 33 .0 0J 0J	
220	412-9164	HOSE 4000 6 140 .0 0J 0J	
221	-		
222	422-2463	HOSE 1250 12 60 .0 0J 90J	
223	-		
224	-		

NUMBERED ITEMS

1	-		
2	427-0871	ASSY DRIVER FLOW SWITCH G2	
3	-		
4	-		
5	-		
6	427-3478	ASSY MP DR FILTER FF L1850 G2	
7	427-3488	ASSY MP DR FILTER RF L1850 G2	
8	424-4990	FILTER LOW PRESSURE	
9	-		
10	-		
11	-		
12	-		
13	427-5773	SUB ASSY JUNCTION VALVE	
14	-		
15	-		
16	-		
17	-		
18	-		
19	-		
20	-		
21	-		
22	-		
23	-		
24	416-3826	ELBOW CYLINDER ROD	
25	-		
26	-		
27	-		
28	-		
29	-		
30	-		
31	-		
32	-		
33	-		
34	427-3460	ASSY VALVE ACCESSORY REAR	
35	427-1092	ASSY HYD PANEL FRONT FRAME	
36	-		
37	-		
38	-		
39	-		
40	427-3446	ASSY MANIFOLD L1850 L2350 G2	
41	-		
42	-		
43	427-1043	ASSY BLOWER	
44	423-8015	PIPE STR 1.50	
45	427-4596	GP MANIFOLD MOTOR SERVICE PORT	
46	427-0959	ASSY OIL COOLER VALVE	
47	427-7868	MOTOR-PISTON 242 CM3 (14.8 IN3)	
48	-		
49	427-5775	SUB ASSY STEERING VALVE	
50	427-4766	GP HW HYD RES L1850 G2	
51	427-0955	ASSY CYL PRESS TRANSDUCER	
52	-		
53	426-1354	ASSY MAI

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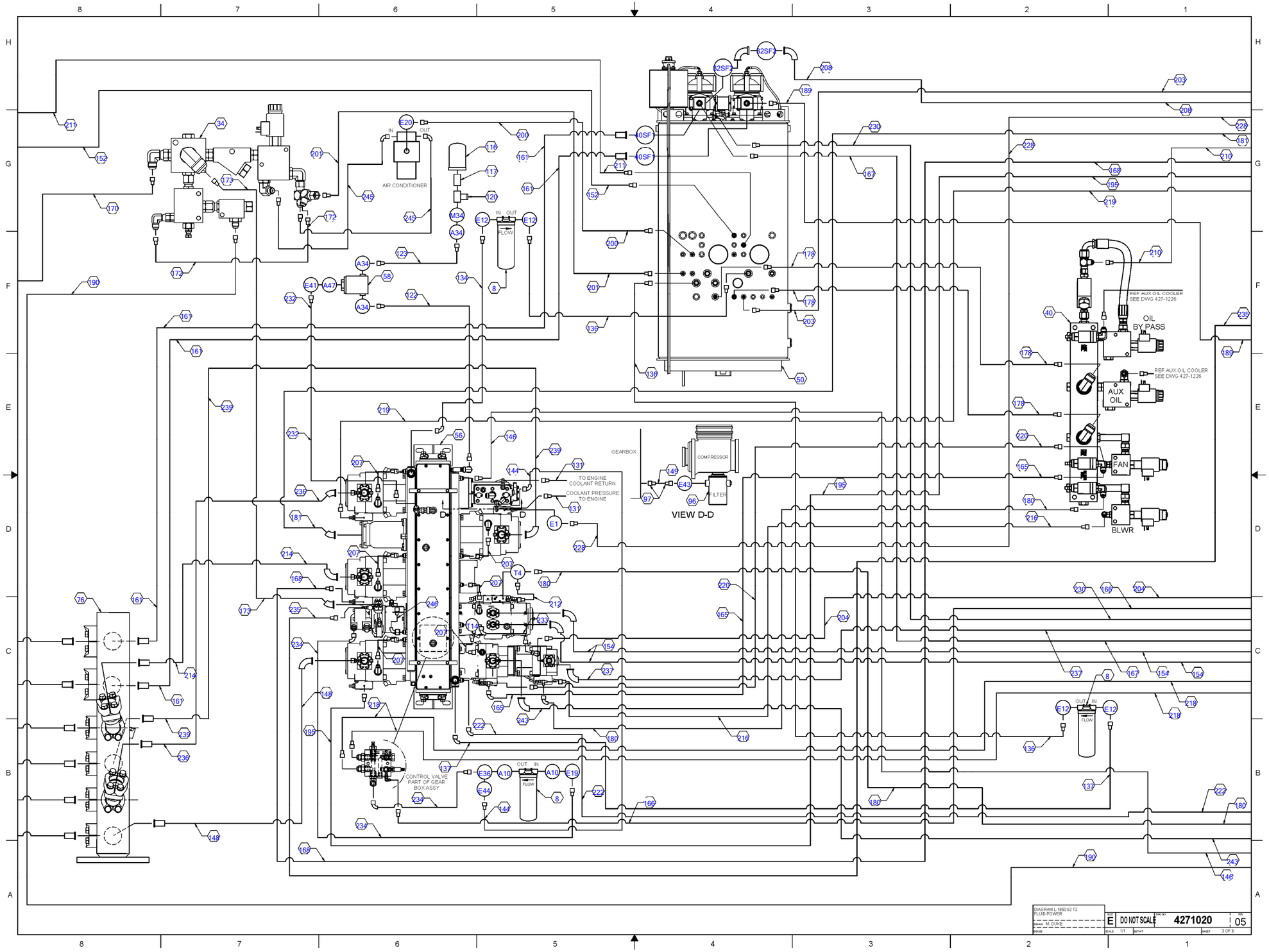
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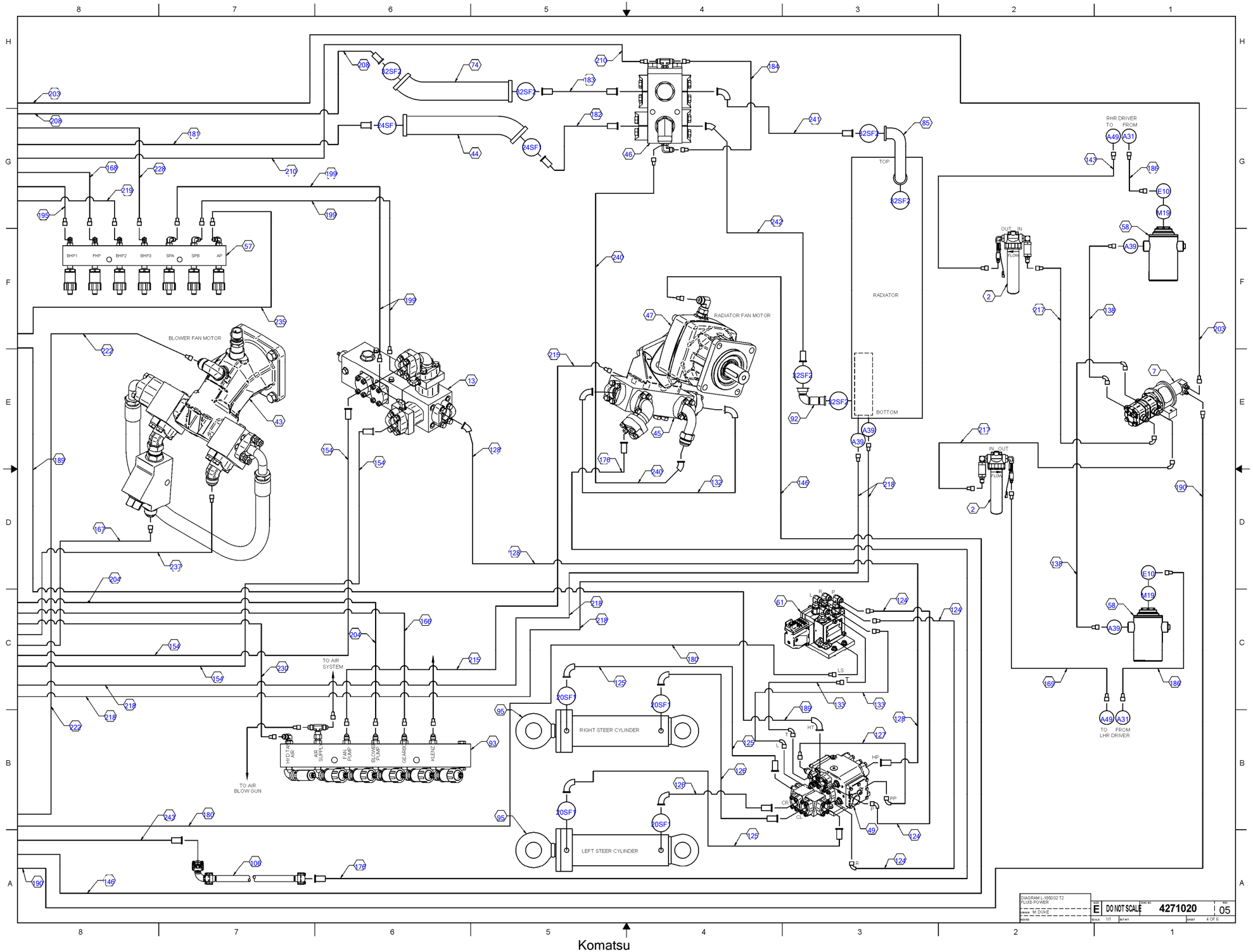
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RETURN TO TANK
SEE PAGE 7, A-8

FRONT DRIVER FILTER

REAR DRIVER FILTER

DRV

FLOW SWITCH X 4

20 MICRON
25 PSI

STEER PILOT VALVE

STEERING CYLINDER

STEER VALVE

DIRECTIONAL CONTROL

OVERLOAD RELIEFS
4000 PSI
PRESET

FLOW CONTROL
2.5 GPM

2200 PSI

PRESSURE REDUCING RELIEF
200 PSI

PILOT RELIEF
4000 PSI

PRIORITY VALVE

COUNTER PRESSURE VALVE
75 PSI
PRESET

FLOW AMPLIFIER

AIR CONDITIONER
(SOL AC)

FLOW CONTROL
6 GPM

AUX COOLING CIRCUIT
(OPTIONAL)

45 PSI

AUX FAN
COOLER

AUX FAN
MOTOR

SOL AS

AUX
STEERING

PRESSURE
RELIEF
2000 PSI

AUX
STEER
(SW AS)

30 PSI

BLOWER
MOTOR

100
PSI

OIL
COOLER
VALVE

0.062"

COOLER

OIL COOLER
BYPASS
(SOL OB)

FAN
MOTOR

PRESSURE TRANSDUCER MANIFOLD REAR FRAME

BUCKET HOIST PUMP1 (XDR BH1)

BUCKET HOIST PUMP2 (XDR BH2)

BUCKET HOIST PUMP3 (XDR BH3)

FAST HOIST PUMP (XDR FH)

STEER PUMP A (XDR SPA)

STEER PUMP B (XDR SPB)

ACC PUMP (XDR AP)

SEE SHEET 7

PRESSURE TRANSDUCER MANIFOLD REAR FRAME

HYDRAULIC RESERVOIR AIR PRESSURE (XDR HA)

AIR SUPPLY (XDR AS)

RADIATOR FAN PUMP (XDR RF)

BLOWER PUMP (XDR BF)

GEAR BOX (XDR GF)

KLENZ TANK (XDR KT)

GEARBOX CONTROL VALVE

KLENZ TANK

TO AUTO LUBE
AND PILOT

AUX FAN
(SOL AF)

AUX FAN
RELIEF
3000 PSI

20 MICRON
25 PSI

10 MICRON

BLOWER
REMOTE RELIEF

BLOWER FAN
CONTROL
(SOL BF)

RADIATOR FAN
REMOTE RELIEF

RADIATOR FAN
CONTROL
(SOL RF)

20 MICRON
25 PSI

BHP1 BHP2 BHP3 FHP AP CP AFP SPB SPA BP FP

BHP1: BUCKET HOIST PUMP1
BHP2: BUCKET HOIST PUMP2
BHP3: BUCKET HOIST PUMP3
FHP: FAST HOIST PUMP
AFP: AUX FAN PUMP (OPTIONAL)
AP: ACCESSORY PUMP
SPA: STEER PUMP A
SPB: STEER PUMP B
CP: CIRCULATION PUMP
BP: BLOWER PUMP
FP: FAN PUMP

HYDRAULIC
RESERVOIR

ALL PRESSURES WITH ENGINE AT HIGH THROTTLE

Specifications		
		L-1850
Hyd Res Air	Hydraulic Reservoir Regulator	4 to 6 PSI
Engine Fan Circuit	Fan Pump (Stand by)-Idle	450 ± 50 (Stand-by)
	Fan Pump (Compensator)-High	750 RPM @ 1800 Engine RPM (11 blade fan)
	Fan Remote Relief-High	700 RPM @ 1900 Engine RPM (11 blade fan)
Blower Circuit	Blower Pump (Stand by)	450 ± 50 (Stand-by)
	Blower Pump (Compensator)	3400 RPM @ 1900 Eng RPM
	Blower Remote Relief	3100 RPM @ 1900 Eng RPM
Accessory Pump	Accessory Pump Compensator	2500psi ± 20
Pilot Circuit	Pressure relief valve (new)	450 ± 10
Driver Filtration	Sequence Valve	2200psi ± 20
Hoist / Bucket Circuit	Main Valve Relief	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 Compensators	4000 psi +100/-0
	Secondary Dump Relief	800 psi ± 50
Steer Circuit (See Note)	Steering Main Relief (Flow Amp)	Turn in Full
	Steering Remote Relief (L950 & L1150)	N/A
	Steering Pump (Stand By)	450 ± 50 (Stand-by)
	Steering Pump (Compensator)	3400 psi ± 50
	Steering Remote Relief (L1350 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 (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) Idle)	300 psi
	Aux Oil Cooler (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	16 Sec
	Hoist Down	9-11 Sec
	Float	6 Sec
	Bucket Rollback	3-5 Sec
	Bucket Dump	4 Sec
	Steer Lock to Lock	6 Sec

NOTE:
1. CAN BE ADJUSTED AT SERVICE LEVEL IN LINCS.
2. THIS SCHEMATIC IS FOR GEN II OF L1850 AND L2350.
3. AUX. STEERING IS AN OPTION. MACHINES MAY NOT BE EQUIPPED AS SUCH.
4. L1850 HAS TWO RETURN FILTERS, WHILE L2350 HAS THREE.
5. "SOL" IS ABBREVIATION OF SOLENOID
   "XDR" STANDS FOR TRANSDUCER
   "SW" IS ABBREVIATION OF SWITCH.

DIAGRAM L1850 G2 T2
FLUID POWER

DRAWN M.DUKE

ISSUED

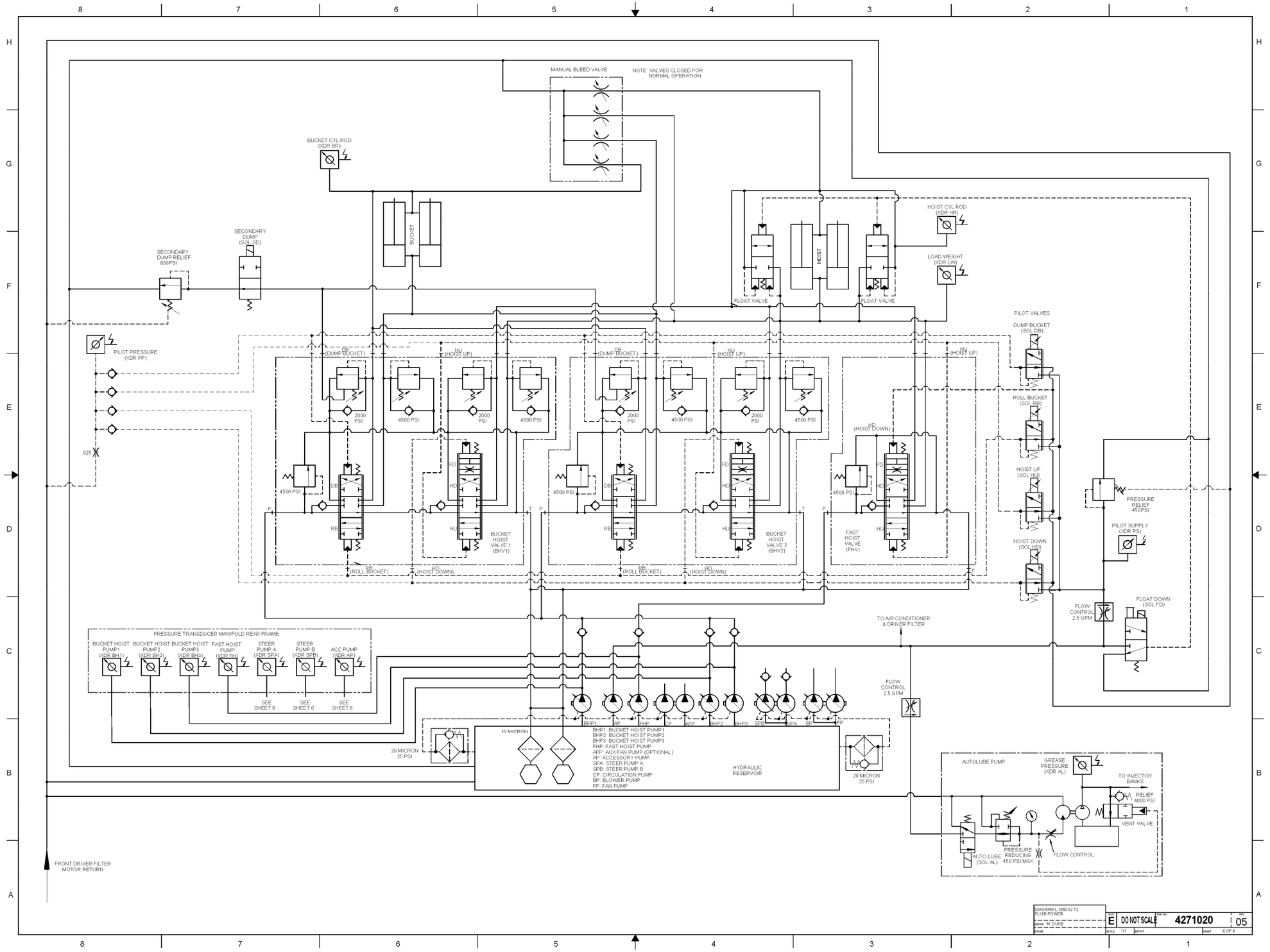
SIZE E | DO NOT SCALE | DWG NO. 4271020 | REV 05

SCALE 1/1 SHEET SHEET 5 OF 6

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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.					
	R4271038		FLUID POWER GROUP		6/23/17
1	N.P.N.		· NOT USED		
2	R4270871	1	· DRIVER FILTER ASSEMBLY (PAGE 8.73-8.73A)		
3	N.P.N.		· NOT USED		
4	N.P.N.		· NOT USED		
5	N.P.N.		· NOT USED		
6	R4273478	1	· DRIVER FILTRATION MOTOR/PUMP ASSEMBLY - FRONT FRAME (PAGE 8.48-8.48A)		
7	R4273488	1	· DRIVER FILTRATION MOTOR/PUMP ASSEMBLY - REAR FRAME (PAGE 8.48-8.48B)		
8	R4244990	7	· FILTER ASSEMBLY, LOW PRESSURE		
	R4244991	7	· · ELEMENT, FILTER		
9	N.P.N.		· NOT USED		
10	N.P.N.		· NOT USED		
11	N.P.N.		· NOT USED		
12	N.P.N.		· NOT USED		
13	R4275773	1	· JUNCTION VALVE ASSEMBLY (PAGE 8.49-8.49A)		
14	N.P.N.		· NOT USED		
15	N.P.N.		· NOT USED		
16	N.P.N.		· NOT USED		
17	N.P.N.		· NOT USED		
18	N.P.N.		· NOT USED		
19	N.P.N.		· NOT USED		
20	N.P.N.		· NOT USED		
21	N.P.N.		· NOT USED		
22	N.P.N.		· NOT USED		
23	N.P.N.		· NOT USED		
24	R4263826	2	· ELBOW, CYLINDER ROD		
25	N.P.N.		· NOT USED		
26	N.P.N.		· NOT USED		
27	N.P.N.		· NOT USED		
28	N.P.N.		· NOT USED		
29	N.P.N.		· NOT USED		
30	N.P.N.		· NOT USED		
31	N.P.N.		· NOT USED		
32	N.P.N.		· NOT USED		
33	N.P.N.		· NOT USED		
34	R4273460	1	· REAR ACCESSORY VALVE ASSEMBLY (PAGE 8.9-8.9A)		
35	R4271092	1	· ASSEMBLY, HYDRAULIC PANEL - FRONT FRAME (PAGE 8.39-8.39A)		
36	N.P.N.		· NOT USED		
37	N.P.N.		· NOT USED		
38	N.P.N.		· NOT USED		
39	N.P.N.		· NOT USED		
40	R4273446	1	· MANIFOLD ASSEMBLY, PROPORTIONAL AND RELIEF (PAGE 8.7-8.7A)		
41	N.P.N.		· NOT USED		
42	N.P.N.		· NOT USED		
43	R4271043	1	· BLOWER ASSEMBLY (PAGE 2.14-2.14A)		
44	R4238015	1	· PIPE STRUCTURE, 1-1/2"		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
45	R4274596	1	· FAN MOTOR MANIFOLD GROUP (PAGE 8.50-8.50A)		
46	R4270959	1	· OIL COOLER VALVE ASSEMBLY (PAGE 8.79-8.79A)		
47	R4277868	1	· MOTOR, PISTON - 242 CM3 (14.8 IN3)		
48	N.P.N.		· NOT USED		
49	R4275775	1	· STEERING VALVE SUB-ASSEMBLY (PAGE 8.86-8.86A)		
50	R4274766	1	· HYDRAULIC RESERVOIR HARDWARE GROUP (PAGE 8.35-8.35A)		
51	R4270955	1	· CYLINDER PRESSURE TRANSDUCER ASSEMBLY (PAGE 8.69-8.69A)		
52	N.P.N.	REF	· NOT USED		
53	R4261354	1	· MAIN CONTROL VALVES ASSEMBLY (PAGE 8.25-8.25A)		
54	N.P.N.		· NOT USED		
55	N.P.N.		· NOT USED		
56	R4277995	1	· GEARBOX AND PUMPS (PAGE 2.9-2.9A)		
57	R4275726	1	· PUMP PRESSURE TRANSDUCER ASSEMBLY (PAGE 8.82-8.82A)		
58	R4254486	4	· SUCTION FILTER ASSEMBLY (PAGE 8.72-8.72A)		
59	N.P.N.		· NOT USED		
60	N.P.N.		· NOT USED		
61	R4275774	1	· PROPORTIONAL VALVE SUB-ASSEMBLY (PAGE 8.51-8.51A)		
62	N.P.N.	1	· CYLINDER GROUP, BUCKET - STANDARD		
	N.P.N.	1	· · CYLINDER ASSEMBLY, BUCKET - STANDARD (PAGE 8.15-8.15A)		
63	N.P.N.		· NOT USED		
64	R4273469	1	· PIPE ASSEMBLY, CROSSOVER - HOIST ROD		
65	R4273468	1	· PIPE ASSEMBLY, CROSSOVER - HOIST BASE		
66	N.P.N.		· NOT USED		
67	N.P.N.	1	· CYLINDER ASSEMBLY, BUCKET - STANDARD (PAGE 8.15-8.15A)		
68	N.P.N.		· NOT USED		
69	N.P.N.		· NOT USED		
70	R4273466	1	· PIPE ASSEMBLY, CROSSOVER - BUCKET BASE		
71	R4273467	1	· PIPE ASSEMBLY, CROSSOVER - BUCKET ROD		
72	N.P.N.		· NOT USED		
73	R4273462	1	· SINGLE FLOAT VALVE ASSEMBLY - LEFT HAND (PAGE 8.62-8.62A)		
74	R4238014	1	· PIPE STRUCTURE, 2"		
75	R4273461	2	· SINGLE FLOAT VALVE ASSEMBLY - RIGHT HAND (PAGE 8.60-8.60A)		
76	R4252629	1	· REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP (PAGE 8.93-8.93A)		
77	N.P.N.		· NOT USED		
78	N.P.N.		· NOT USED		
79	N.P.N.		· NOT USED		
80	R4248529	2	· PIPE STRUCTURE, HOIST CYLINDER ROD		
81	N.P.N.		· NOT USED		
82	N.P.N.		· NOT USED		
83	N.P.N.		· NOT USED		
84	N.P.N.		· NOT USED		
85	R4219106	1	· TUBE STRUCTURE		
86	N.P.N.		· NOT USED		
87	R4256459	1	· CAP, S.F. - 2-1/2"		
88	N.P.N.		· NOT USED		
89	R4252628	1	· FRONT FRAME PRESSURE AND RETURN MANIFOLD GROUP (PAGE 8.59-8.59A)		
90	N.P.N.		· NOT USED		
91	R4172000	8	· WASHER, SHIM - STEEL		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
92	R4222481	1	· ELBOW STRUCTURE, 2" X 90 deg. - S.F.		
93	R4275726	1	· REAR FRAME TRANSDUCER ASSEMBLY (PAGE 8.55-8.55A)		
94	N.P.N.		· NOT USED		
95	N.P.N.	1	· CYLINDER GROUP, STEER		
	N.P.N.	1	· · CYLINDER ASSEMBLY, STEER (PAGE 8.12-8.12A)		
96	R4254486	1	· SUCTION FILTER ASSEMBLY (PAGE 8.72-8.72A)		
97	R4186449	1	· ADAPTER, #12 FJ X #12 HOSE		
98	N.P.N.		· NOT USED		
99	N.P.N.		· NOT USED		
100	N.P.N.		· NOT USED		
101	N.P.N.		· NOT USED		
102	N.P.N.	1	· CYLINDER GROUP, BUCKET - HIGH		
	N.P.N.	1	· · CYLINDER ASSEMBLY, BUCKET - HIGH (PAGE 8.15-8.15A)		
103	N.P.N.		· NOT USED		
104	N.P.N.		· NOT USED		
105	N.P.N.		· NOT USED		
106	R4270912	1	· PIPE STRUCTURE, 1-1/4"		
107	N.P.N.		· NOT USED		6/23/17
108	N.P.N.	REF	· CYLINDER GROUP, BUCKET - HIGH		
	N.P.N.	REF	· · CYLINDER ASSEMBLY, BUCKET - HIGH (PAGE 8.15-8.15A)		
109	N.P.N.		· NOT USED		
110	N.P.N.		· NOT USED		
111	N.P.N.		· NOT USED		
112	N.P.N.		· NOT USED		
113	N.P.N.		· NOT USED		
114	N.P.N.		· NOT USED		
115	N.P.N.	1	· CYLINDER GROUP, HOIST		
	N.P.N.	1	· · CYLINDER ASSEMBLY, HOIST (PAGE 8.14-8.14A)		
116	R4244941	1	· ELEMENT, FILTER		
117	R4254490	1	· ADAPTER, BREATHER		
118	N.P.N.		· NOT USED		
119	N.P.N.		· NOT USED		
120	R4254488	1	· MOUNT STRUCTURE, BREATHER		
121	N.P.N.		· NOT USED		
122	R4223243	1	· HOSE ASSEMBLY, #16 X 43"		
123	R4151428	1	· HOSE ASSEMBLY, #16 X 42"		
124	R4222273	1	· HOSE ASSEMBLY, #8 X 52"		
125	R4223097	1	· HOSE ASSEMBLY, #16 X 54"		
126	R4223091	1	· HOSE ASSEMBLY, #16 X 46"		
127	R4186076	1	· HOSE ASSEMBLY, #4 X 34"		
128	R4244714	1	· HOSE ASSEMBLY, #20 X 36"		
129	R4150753	1	· HOSE ASSEMBLY, #4 X 148"		
130	R6971718	1	· HOSE ASSEMBLY, #4 X 58"		
131	R4082855	1	· HOSE ASSEMBLY, #8 X 278"		
132	R4222042	1	· HOSE ASSEMBLY, #20 X 44"		
133	R4243503	1	· HOSE ASSEMBLY, #8 X 25"		
134	R4243923	1	· HOSE ASSEMBLY, #20 X 32"		
135	N.P.N.		· NOT USED		
136	R4243933	1	· HOSE ASSEMBLY, #20 X 121"		
137	R4265284	1	· HOSE ASSEMBLY, #20 X 40"		
138	R4172292	1	· HOSE ASSEMBLY, #12 X 28"		
139	R4177057	1	· HOSE ASSEMBLY, #8 X 82"		
140	R4082862	1	· HOSE ASSEMBLY, #8 X 50"		
141	R4141609	1	· HOSE ASSEMBLY, #6 X 112"		
142	R4158757	1	· HOSE ASSEMBLY, #6 X 162"		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
143	R4098409	1	· HOSE ASSEMBLY, #8 X 102"		
144	R4223309	1	· HOSE ASSEMBLY, #6 X 90"		
145	R4222185	1	· HOSE ASSEMBLY, #24 X 55"		
146	R4244740	1	· HOSE ASSEMBLY, #12 X 316"		
147	R4213833	1	· HOSE ASSEMBLY, #32 X 72"		
148	R4222201	1	· HOSE ASSEMBLY, #24 X 76"		
149	R4186444	1	· HOSE, 3/4" I.D.		
150	N.P.N.		· NOT USED		
151	R4096672	1	· HOSE ASSEMBLY, #4 X 142"		
152	R4222292	1	· HOSE ASSEMBLY, #12 X 288"		
153	R4034906	1	· HOSE ASSEMBLY, #6 X 50"		
154	R4243727	1	· HOSE ASSEMBLY, #16 X 90"		
155	R4261672	1	· HOSE ASSEMBLY, #24 X 23"		
156	R4096720	1	· HOSE ASSEMBLY, #12 X 72"		
157	N.P.N.		· NOT USED		
158	N.P.N.		· NOT USED		
159	R4223265	1	· HOSE ASSEMBLY, #12 X 140"		
160	N.P.N.		· NOT USED		
161	R4223414	1	· HOSE ASSEMBLY, #40 X 59"		
162	N.P.N.		· NOT USED		
163	R4152957	1	· HOSE ASSEMBLY, #8 X 63"		
164	N.P.N.		· NOT USED		
165	R4270916	1	· HOSE ASSEMBLY, #6 X 140"		
166	R4124916	1	· HOSE ASSEMBLY, #4 X 40"		
167	R4186041	1	· HOSE ASSEMBLY, #12 X 121"		
168	R4150727	1	· HOSE ASSEMBLY, #4 X 56"		
169	R4222295	1	· HOSE ASSEMBLY, #8 X 140"		
170	R4198244	1	· HOSE ASSEMBLY, #8 X 184"		
171	N.P.N.		· NOT USED		
172	R4143736	1	· HOSE ASSEMBLY, #6 X 20"		
173	R4261671	1	· HOSE ASSEMBLY, #16 X 52"		
174	R4270963	1	· HOSE ASSEMBLY, #32 X 115"		
175	R4097827	1	· HOSE ASSEMBLY, #6 X 58"		
176	R4244743	1	· HOSE ASSEMBLY, #20 X 110"		6/23/17
177	N.P.N.		· NOT USED		
178	R4121659	1	· HOSE ASSEMBLY, #12 X 138"		
179	R4213834	1	· HOSE ASSEMBLY, #32 X 60"		
180	R4155550	1	· HOSE ASSEMBLY, #6 X 120"		
181	R4261642	1	· HOSE ASSEMBLY, #24 X 96"		
182	R4270953	1	· HOSE ASSEMBLY, #24 X 75"		
183	R4244745	1	· HOSE ASSEMBLY, #32 X 75"		
184	R4129106	1	· HOSE ASSEMBLY, #6 X 24"		
185	R4223472	1	· HOSE ASSEMBLY, #32 X 124"		
186	R4177394	1	· HOSE ASSEMBLY, #12 X 103"		
187	R4182364	1	· HOSE ASSEMBLY, #12 X 17"		
188	R4222188	1	· HOSE ASSEMBLY, #24 X 73"		
189	R4243527	1	· HOSE ASSEMBLY, #16 X 96"		
190	R4261766	1	· HOSE ASSEMBLY, #6 X 340"		
191	R4017540	1	· HOSE ASSEMBLY, #8 X 118"		
192	R4222192	1	· HOSE ASSEMBLY, #24 X 72"		
193	R4222263	1	· HOSE ASSEMBLY, #24 X 45"		
194	R4103608	1	· HOSE ASSEMBLY, #24 X 48"		
195	R4122872	1	· HOSE ASSEMBLY, #4 X 70"		
196	R4222186	1	· HOSE ASSEMBLY, #24 X 68"		
197	R4172274	1	· HOSE ASSEMBLY, #32 X 86"		
198	R4080310	1	· HOSE ASSEMBLY, #6 X 92"		
199	R6989042	1	· HOSE ASSEMBLY, #4 X 50"		
200	R4243616	1	· HOSE ASSEMBLY, #6 X 150"		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
201	R4082856	1	· HOSE ASSEMBLY, #8 X 182"		
202	R6982815	1	· HOSE ASSEMBLY, #6 X 158"		
203	R4119113	1	· HOSE ASSEMBLY, #8 X 262"		
204	R4162137	1	· HOSE ASSEMBLY, #4 X 62"		
205	R4243736	1	· HOSE ASSEMBLY, #20 X 44"		
206	N.P.N.		· NOT USED		
207	R4244950	1	· HOSE ASSEMBLY, #12 X 13"		
208	R4223475	1	· HOSE ASSEMBLY, #32 X 95"		
209	R4177390	1	· HOSE ASSEMBLY, #8 X 152"		
210	R4243745	1	· HOSE ASSEMBLY, #6 X 176"		
211	R4243738	1	· HOSE ASSEMBLY, #12 X 300"		
212	R4129107	1	· HOSE ASSEMBLY, #6 X 26"		
213	R4155732	1	· HOSE ASSEMBLY, #6 X 104"		
214	R4222189	1	· HOSE ASSEMBLY, #24 X 58"		
215	R4261643	1	· HOSE ASSEMBLY, #4 X 350"		
216	R4270947	1	· HOSE ASSEMBLY, #6 X 120"		
217	R4222057	1	· HOSE ASSEMBLY, #12 X 20"		
218	R4186148	1	· HOSE ASSEMBLY, #12 X 342"		
219	R4193525	1	· HOSE ASSEMBLY, #4 X 33"		
220	R4129164	1	· HOSE ASSEMBLY, #6 X 140"		
221	N.P.N.		· NOT USED		
222	R4222463	1	· HOSE ASSEMBLY, #12 X 60"		
223	N.P.N.		· NOT USED		
224	N.P.N.		· NOT USED		
225	N.P.N.		· NOT USED		
226	N.P.N.		· NOT USED		
227	N.P.N.		· NOT USED		
228	R4243746	1	· HOSE ASSEMBLY, #4 X 40"		
229	N.P.N.		· NOT USED		
230	R4243743	1	· HOSE ASSEMBLY, #4 X 131"		
231	N.P.N.		· NOT USED		
232	R4154485	1	· HOSE ASSEMBLY, #16 X 38"		
233	R4243530	1	· HOSE ASSEMBLY, #12 X 22"		
234	R4177430	1	· HOSE ASSEMBLY, #12 X 104"		
235	R4150735	1	· HOSE ASSEMBLY, #4 X 80"		
236	R4222191	1	· HOSE ASSEMBLY, #24 X 68"		
237	R4270880	1	· HOSE ASSEMBLY, #12 X 58"		
238	R4270962	1	· HOSE ASSEMBLY, #32 X 115"		
239	R4223142	1	· HOSE ASSEMBLY, #24 X 88"		
240	R4243919	1	· HOSE ASSEMBLY, #20 X 25"		
241	R4223475	1	· HOSE ASSEMBLY, #32 X 95"		
242	R4270917	1	· HOSE ASSEMBLY, #32 X 66"		
243	R4277996	1	· HOSE ASSEMBLY, #20 X 62"		
244	R4186478	1	· HOSE ASSEMBLY, #32 X 124"		
245	R4141620	1	· HOSE ASSEMBLY, #6 X 26"		
246	R4267509	1	· HOSE ASSEMBLY, #12 X 11"		
247	R4133373	1	· HOSE ASSEMBLY, #4 X 120"		
248	R4150749	1	· HOSE ASSEMBLY, #4 X 130"		
249	N.P.N.		· NOT USED		
250	N.P.N.		· NOT USED		
			·		
A1	R0527116	1	· ADAPTER, 1/4" MP X #6 MJ		
A2	R4002420	3	· ADAPTER, 3/8" MP X #8 MJ		
A3	R4021412	1	· ADAPTER, #10 MO X #12 MJ		
A4	R4039499	3	· ADAPTER, #6 MO X #4 MJ		
A5	R4002454	10	· ADAPTER, #6 MO X #6 MJ		
A6	R4002455	4	· ADAPTER, #8 MO X #8 MJ		
A7	R4002457	1	· ADAPTER, #12 MO X #12 MJ		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
A8	R4002459	3	· ADAPTER, #16 MO X #16 MJ		
A9	R4002460	1	· ADAPTER, #20 MO X #20 MJ		
A10	R4074094	2	· ADAPTER STRUCTURE, #20 MO X #12 MJ		
A11	R4013080	1	· ADAPTER, #8 MO X #12 MJ		
A12	R4014580	1	· ADAPTER, #4 MO X #4 MJ		
A13	R4256310	3	· ADAPTER, 1/2" MP X 3/4" MP		
A14	R4016785	1	· ADAPTER, 1/4" MP X #4 MJ		
A15	R4018666	6	· ADAPTER, 1/2" MP X #8 MJ		
A16	R4020771	1	· ADAPTER, #8 MO X #6 MJ		
A17	R4020772	1	· ADAPTER, #6 MO X #8 MJ		
A18	R4020774	1	· ADAPTER, #8 MO X #4 MJ		
A19	R0978632	1	· ADAPTER, 1/8" MP X #4 MJ		
A20	R4129458	1	· ADAPTER, #8 FJ X #6 MJ		
A21	R4040562	1	· ADAPTER, 3/8" MP X #4 MJ		
A22	R4051567	1	· ADAPTER, #6 MO X 1/4" MP		
A23	R4172439	1	· ADAPTER, 1-1/2" S.F. X 1"		
A24	R4040550	1	· ADAPTER, #12 MO X #8 MJ		
A25	R4039497	1	· ADAPTER, #12 MJ X #12 MJ		
A26	R4244734	1	· ADAPTER, #20 MO X 1" FP		
A27	R4241311	1	· CONNECTOR, FLANGED		
A28	R4116765	2	· ADAPTER, #8 MO X #8 FJ		
A29	R4050166	4	· ADAPTER, 3/4" MP X #16 MJ		
A30	R5001457	1	· ADAPTER, #6 FJ X #4 MJ		
A31	R4172327	1	· ADAPTER, 3/4" FP X #12 MJ		
A32	R4243928	1	· ADAPTER, #8 BSPP X #8 MJ		
A33	R4243936	1	· ADAPTER, #12 MO X #4 MJ		
A34	R4002424	1	· ADAPTER, 1" MP X #16 MJ		
A35	R4002425	1	· ADAPTER, 1-1/4" MP X #20 MJ		
A36	R4015753	1	· ADAPTER, 1/2" MP X #12 MJ		
A37	R4040557	1	· ADAPTER, 1/2" MP X #6 MJ		
A38	R4030078	1	· ADAPTER, #8 MO X #8 MO		
A39	R4040561	1	· ADAPTER, 1" MP X #12 MJ		
A40	R4011756	1	· ADAPTER, 3/8" MP X #6 MJ		
A41	R4057053	1	· REDUCER, #10 MO X 3/8" FP		
A42	R4237965	1	· ADAPTER, #5 MO X #6 MJ		
A43	R4030078	1	· ADAPTER, #8 MO X #8 MO		
A44	R4002461	1	· ADAPTER, #24 MO X #24 MJ		
A45	R4050403	1	· ADAPTER, #12 MO X #16 MJ		
A46	R4030297	1	· ADAPTER, 1/8" MP X 1/8" MP		
A47	R4244690	1	· BUSHING, #16 FO X #24 MO		
A48	R4017914	1	· ADAPTER, #8 MJ X #8 MJ UNN		
A49	R4261726	1	· ADAPTER, 3/4" FP X #8 MJ		
A50	R4243980	1	· ADAPTER, 12 MM X #6 MJ		
A51	R4267478	1	· ADAPTER, #12 MO X #12 MO		
			·		
E1	R4040552	1	· ELBOW, #6 MO X 90 deg. X #4 MJ		
E2	R4076637	1	· ELBOW, 3/8" FP X 90 deg. X 3/8" MP - TAPPED, 1/8" FP		
E3	R4255264	1	· ELBOW STRUCTURE, 1-1/2" S.F. X 45 deg.		
E4	R4243565	1	· ELBOW, 14 MMO X 90 deg. X #6 MJ		
E5	R4116444	1	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
E6	R4255270	1	· ELBOW STRUCTURE, 1-1/2" S.F. X 60 deg.		
E7	R4002467	1	· ELBOW, #16 MO X 45 deg. X #16 MJ		
E8	R4002470	14	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
E9	R4002471	7	· ELBOW, #8 MO X 90 deg. X #8 MJ - ADJ.		
E10	R4002473	1	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
E11	R4241246	1	· ELBOW, #8 MO X 90 deg. X #12 MJ - ADJ.		
E12	R4002476	1	· ELBOW, #20 MO X 90 deg. X #20 MJ - ADJ.		
E13	R4002478	1	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
E14	R4032325	4	· ELBOW, 1/2" FP X 90 deg. X 1/2" MP		
E15	R4056022	1	· ELBOW, #16 MO X 90 deg. X #20 MJ		
E16	R4011748	3	· ELBOW, 1/4" MP X 90 deg. X #4 MJ		
E17	R4014581	1	· ELBOW, #4 MO X 90 deg. X #4 MJ - ADJ.		
E18	R4017400	4	· ELBOW, #8 MO X 90 deg. X #6 MJ - ADJ.		
E19	R4002481	3	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
E20	R4002471	1	· ELBOW, #8 MO X 90 deg. X #8 MJ - ADJ.		
E21	R4002483	1	· ELBOW, #16 FJ X 90 deg. X #16 MJ - SWIVEL		
E22	R4255263	1	· ELBOW STRUCTURE, 1-1/2" S.F. X 90 deg.		
E23	R4040554	1	· ELBOW, #12 MO X 90 deg. X #8 MJ		
E24	R4248951	1	· ELBOW W/ORIFICE ASSEMBLY, .062" - #6 MO X 90 deg. X #6 MJ		
	R4136495	1	· · ORIFICE, .062" X 1/16" MP		
	R4103739	AR	· · SEALANT, HYDRAULIC - LOCTITE #569-31		
E25	R4040553	1	· ELBOW, #6 MO X 90 deg. X #8 MJ		
E26	R4244735	1	· ELBOW, 1" MP X 90 deg. X 1" MP		
E27	R4081386	1	· ELBOW, #10 MO X 90 deg. X #12 MJ		
E28	R4031400	1	· ELBOW, 1/4" FP X 90 deg. X 1/4" MP		
E29	R4032321	1	· ELBOW, 1/4" FP X 90 deg. X 1/4" FP		
E30	R4243981	1	· ELBOW, 16 MM X 90 deg. X #6 MJ		
E31	R4506555	1	· ELBOW, #10 MO X 90 deg. X #8 MJ		
E32	R4255268	1	· ELBOW STRUCTURE, 1-1/4" S.F. X 90 deg.		
E33	R4002439	1	· ELBOW, 3/8" MP X 90 deg. X #8 MJ		
E34	R4243567	1	· ELBOW, 12 MM X 90 deg. X #4 MJ		
E35	R4002479	1	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
E36	R4244689	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ		
E37	R4011746	1	· ELBOW, 3/8" MP X 90 deg. X #6 MJ		
E38	R4040556	1	· ELBOW, #16 MJ X 90 deg. X #12 MJ		
E39	R4021411	1	· ELBOW, #16 MO X 90 deg. X #12 MJ		
E40	R4139699	1	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
E41	R4002475	1	· ELBOW, #16 MO X 90 deg. X #16 MJ		
E42	R4002443	1	· ELBOW, 1" MP X 90 deg. X #16 MJ		
E43	R4264809	1	· ELBOW, 18 MMO X 90 deg. X #8 MJ		
E44	R4002438	1	· ELBOW, 1/4" MP X 90 deg. X #6 MJ		
E45	R4271108	1	· ELBOW, #12 S.F. X 45 deg. X #12 MJ		6/23/17
E46	R4172129	1	· ELBOW, #32 S.F. X 90 deg. X #32 S.F.		
			·		
H1	R4009760	8	· BOLT, 1/2"-13 X 6"		
H2	R4210347	1	· FLATWASHER, 3/8" - HARDENED		
H3	R4001883	8	· CAPSCREW, 1/2"-13 X 6"		
H4	R4152343	8	· CAPSCREW, 1/2"-13 X 3-1/2"		
H5	R4001877	8	· CAPSCREW, 1/2"-13 X 3-1/4"		
H6	R4210349	1	· FLATWASHER, 1/2" - HARDENED		
H7	R4122903	4	· BOLT, 7/16"-14 X 3"		
H8	R4001873	4	· CAPSCREW, 1/2"-13 X 2-1/4"		
H9	R4116072	16	· CAPSCREW, 1/2"-13 X 1-1/4"		
H10	R4243747	1	· CAPSCREW, 7/16"-14 X 1-1/2" - SOC HD		
H11	R0829683	1	· BOLT, 3/8"-16 X 1-3/4"		
H12	R4009524	1	· BOLT, 3/4"-10 X 1-3/4"		
H13	R4016046	1	· FLATWASHER, 3/4" X 1-1/2" X 1/8"		
H14	R0021542	1	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
H15	R0827222	1	· BOLT, 1/2"-13 X 2"		
H16	R4243939	1	· CAPSCREW, M16 X 2 X 38		
H17	R0808598	1	· BOLT, 1/2"-13 X 2-3/4"		
H18	R4001842	1	· CAPSCREW, 3/8"-16 X 3"		
H19	R4001875	1	· CAPSCREW, 1/2"-13 X 2-3/4"		
H20	N.P.N.		· NOT USED		
			·		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
M1	R4237926	1	· FLANGE, SUCTION		
M2	R4188910	9	· HOSE, 4-1/2" I.D. X 6"		
M3	R4032507	1	· REDUCER, 1/2" MP X 3/8" MP		
M4	R4030298	4	· NIPPLE, PIPE - 1/4", HEX		
M5	R4123236	1	· NIPPLE, PIPE - 3/4", HEX		
M6	R4241052	1	· TUBE STRUCTURE, SUCTION - REAR		
M7	R4223016	12	· COUPLING ASSEMBLY, QUICK - MALE X 1/4" MP		
	R4222435	12	· · COUPLING, QUICK - MALE X 1/4" FP		
	R4222437	12	· · CAP, QUICK COUPLING		
	R4030298	12	· · NIPPLE, PIPE - 1/4", HEX		
M8	R4223018	1	· COUPLING ASSEMBLY, QUICK - MALE X #6 MO		
	R4222435	1	· · COUPLING, QUICK - MALE X 1/4" FP		
	R4222437	1	· · CAP, QUICK COUPLING		
	R4051567	1	· · ADAPTER, #6 MO X 1/4" MP		
	R4133132	1	· · O-RING, 1/2" I.D. - POLYURETHANE		
M9	R4189392	1	· TUBE, SUCTION		
M10	R4103836	1	· REDUCER, #6 FO X #8 MO		
M11	R4238009	1	· HOSE, 3" I.D. X 6"		
M12	R4162338	6	· HOSE, COOLANT - 3-1/2" I.D. X 6"		
M13	R4241390	1	· FLANGE, SUCTION		
M14	R4241061	1	· TUBE, SUCTION		
M15	R4241047	1	· TUBE, SUCTION - REAR 3-1/2" O.D.		
M16	R4237927	1	· FLANGE, SUCTION		
M17	R4238133	1	· FLANGE STRUCTURE, SUCTION		
M18	R4223017	1	· COUPLING ASSEMBLY, QUICK - MALE X 90 deg. X 1/4" MP		
	R4222435	1	· · COUPLING, QUICK - MALE X 1/4" FP		
	R4222437	1	· · CAP, QUICK COUPLING		
	R4031447	1	· · ELBOW, 1/4" MP X 90 deg. X 1/4" MP		
M19	R4243516	1	· REDUCER, #12 FO X #24 MO		
M20	R0214976	1	· ELBOW, 3/4" FP X 90 deg. X 3/4" FP		
M21	R4223014	1	· COUPLING ASSEMBLY, QUICK - MALE X #8 MO		
	R4222435	1	· · COUPLING, QUICK - MALE X 1/4" FP		
	R4222437	1	· · CAP, QUICK COUPLING		
	R4133133	1	· · O-RING, 5/8" I.D. - POLYURETHANE		
	R4021571	1	· · ADAPTER, 1/4" MP X #8 MJ		
M22	R4032312	1	· NIPPLE, PIPE - 3/8", HEX		
M23	R4241051	1	· TUBE STRUCTURE, SUCTION - FRONT		
M24	R4241391	1	· TUBE, SUCTION		
M25	R4163818	1	· HOSE, 6" I.D. X 8"		
M26	R4241063	1	· TUBE, SUCTION		
M27	R4223013	1	· COUPLING ASSEMBLY, QUICK - MALE X 90 deg. X #6 MO		
	R4222435	1	· · COUPLING, QUICK - MALE X 1/4" FP		
	R4222437	1	· · CAP, QUICK COUPLING		
	R4031400	1	· · ELBOW, 1/4" FP X 90 deg. X 1/4" MP		
	R4051567	1	· · ADAPTER, #6 MO X 1/4" MP		
	R4133132	1	· · O-RING, 1/2" I.D. - POLYURETHANE		
M28	R4161034	1	· HOSE, 1-1/4" I.D. X 3"		
M29	R4261624	1	· ADAPTER, W/ORIFICE, #6 MO X #4 MJ		
	R4261621	1	· · ORIFICE, .025" X 1/16"		
	R4103739	AR	· · SEALANT, HYDRAULIC - LOCTITE #569-31		
M30	R4223016	1	· COUPLING ASSEMBLY, QUICK - MALE X 1/4" MP		
	R4222435	1	· · COUPLING, QUICK - MALE X 1/4" FP		
	R4222437	1	· · CAP, QUICK COUPLING		
	R4030298	1	· · NIPPLE, PIPE - 1/4", HEX		
M31	R4261627	1	· VALVE, CHECK - #6 MO X #6 MJ		
M32	R4077098	1	· BUSHING, #20 MO X 1/2" FP		
M33	R0180841	1	· COUPLING, PIPE - 1/2"		
M34	R4013799	1	· BUSHING, 1" FP X 1-1/4" MP		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
M35	R6945598	1	· NIPPLE, PIPE - 1"		
M36	N.P.N.		· NOT USED		
			·		
P1	R4223339	1	· PLUG, PIPE - 3/4", HEX HD.		
P2	R0416273	1	· PLUG, PIPE - 3/4", SQ. HD. - WITH 1/16" X 3/16" HOLE		
P3	R4008734	1	· PLUG, S.F. - 1-1/2"		
P4	R4013957	2	· PLUG, PIPE - 3/4", SQ. CSK. MAG.		
P5	R4223338	1	· PLUG, PIPE - 1/2", HEX HD.		
P6	R4030061	3	· PLUG, #6 MO		
P7	R4020770	1	· PLUG, #4 MO		
P8	R4013780	1	· PLUG, PIPE - 3/8", HEX HD.		
P9	R4013779	11	· PLUG, PIPE - 1/4", HEX HD.		
P10	R0272969	1	· PLUG, PIPE - 1/4", HEX CSK.		
P11	R4031553	1	· PLUG, #12 MO		
P12	R4013958	1	· PLUG, PIPE - 1" SQ. CSK. MAG.		
P13	R4040567	1	· PLUG, #16 MO		
P14	R4020769	1	· PLUG, PIPE - #8 MO		
P15	R4223348	1	· PLUG, PIPE - 1-1/4", HEX HD.		
P16	R4008732	1	· PLUG, S.F. - 1"		
P17	R4243927	1	· PLUG, #8 BSPP - HEX CSK.		
P18	R4243929	1	· PLUG, #4 MO - HEX CSK.		
P19	R4008733	1	· PLUG, S.F. - 1-1/4"		
P20	R4223340	1	· PLUG, PIPE - 1", HEX HD.		
P21	R4013778	1	· PLUG, PIPE - 1/8", HEX HD.		
P22	R4241329	1	· PLUG, #32 MO - HEX CSK.		
P23	R4261677	1	· PLUG, #6 MO		
P24	R4013958	1	· PLUG, PIPE - 1" SQ. CSK. MAG.		
P25	R4077099	1	· PLUG, #20 MO		
P26	R4267483	1	· PLUG, T-19A		
			·		
S1	R4068830	2	· O-RING, 5" I.D. - VITON		
S2	R4248986	2	· O-RING, 18-7/16" I.D. - BUNA N		
S3	R4121119	1	· GASKET, FILLER NECK		
S4	R4123585	1	· SEAL, QUAD RING - 3-7/8" I.D. - BUNA N		
S5	R4154858	4	· O-RING, 2-5/8" I.D. - POLYURETHANE		
S6	R4105005	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
S7	R4123584	1	· SEAL, QUAD RING - 3-3/8" I.D. - BUNA N		
S8	R4068357	17	· O-RING, 1-1/2" I.D. - POLYURETHANE		
S9	R4068358	17	· O-RING, 1-7/8" I.D. - POLYURETHANE		
S10	R4244637	1	· O-RING, 6-1/2" I.D. - VITON		
S11	R4071255	17	· O-RING, 2-1/4" I.D. - POLYURETHANE		
S12	R4123586	4	· SEAL, QUAD RING - 4-3/8" I.D. - BUNA N		
S13	R4236946	2	· SEAL, 9-1/8" I.D. - BUNA N		
S14	R4244772	3	· O-RING, 6" I.D. - VITON		
S15	R4016121	8	· RING, BACK-UP		
S16	R4116301	17	· O-RING, 2-3/4" I.D. - POLYURETHANE		
S17	R4105004	1	· O-RING, 1" I.D. - POLYURETHANE		
S18	R4257212	1	· O-RING, 4" I.D. - VITON		
S19	R4244771	1	· O-RING, 3-1/4" I.D. - VITON		
S20	R4002283	1	· O-RING, 15/16" I.D. - BUNA N		
S21	R4267979	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
			·		
T1	R4020762	1	· TEE, #8 MJ X #8 MO X #8 MJ		
T2	R4131486	1	· TEE, #6 MJ X #6 FJ X #6 MJ		
T3	R4031446	1	· TEE, 1/4" FP		
T4	R4103064	1	· TEE, #6 MJ X #6 MO X #6 MJ		
T5	R4043032	5	· TEE, #6 MJ X #6 MO X #6 MJ		
T6	R4063332	1	· TEE, #4 MJ X #4 MJ X #4 FJ - SWIVEL		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
T7	R4078968	1	· TEE, #8 MJ X #8 FJ X #8 MJ		
T8	R4116494	1	· TEE ASSEMBLY, #8 MO X 1/4" FP X #8 MJ		
T9	R4013077	1	· TEE, #8 MJ X #8 MJ X #8 MO		
T10	R4261625	1	· TEE, #6 MO X #6 FO X #6 FO		
T11	R4261626	1	· TEE, #6 FO X #6 FO X #6 FO		
T12	R4241590	1	· TEE, 1" FP		
T13	R4177038	1	· TEE, #6 MJ X #6 MJ X #6 FJ		
			·		
12SF1	R4223431	2	· FLANGE HALF, 3/4"		
	R4105004	1	· O-RING, 1" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R4001845	4	· CAPSCREW, 3/8"-16 X 4"		
			·		
12SF2	R4223431	2	· FLANGE HALF, 3/4"		
	R4105004	1	· O-RING, 1" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R0808476	4	· BOLT, 3/8"-16 X 1-1/4"		
			·		
12SF3	R4223431	2	· FLANGE HALF, 3/4"		
	R4105004	1	· O-RING, 1" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R0829683	4	· BOLT, 3/8"-16 X 1-3/4"		
			·		
12SF4	R4002219	2	· FLANGE HALF, 3/4"		
	R4105004	1	· O-RING, 1" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R0836048	4	· BOLT, 3/8"-16 X 3-1/2"		
			·		
12SF5	R4002219	2	· FLANGE HALF, 3/4"		
	R4105004	1	· O-RING, 1" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R0808476	4	· BOLT, 3/8"-16 X 1-1/4"		
			·		
16SF1	R4186491	2	· FLANGE HALF, 1"		
	R4105005	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R0829683	4	· BOLT, 3/8"-16 X 1-3/4"		
			·		
16SF2	R4222102	2	· FLANGE HALF, 1"		
	R4105005	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R4244758	4	· BOLT, M12 X 1.75 X 70		
			·		
16SF3	R4269658	2	· FLANGE HALF, 1"		
	R4105005	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
	R4210348	4	· FLATWASHER, 7/16" - HARDENED		
	R4213614	4	· BOLT, 7/16"-14 X 1-3/4"		
			·		
16SF4	R4222102	2	· FLANGE HALF, 1"		
	R4105005	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R4243937	4	· BOLT, M12 X 1.75 X 45		
			·		
16SF5	R4186491	2	· FLANGE HALF, 1"		
	R4105005	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R0801173	4	· BOLT, 3/8"-16 X 3-1/4"		
			·		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
20SF1	R4186400	2	· FLANGE HALF, 1-1/4"		
	R4068357	1	· O-RING, 1-1/2" I.D. - POLYURETHANE		
	R4210348	4	· FLATWASHER, 7/16" - HARDENED		
	R4213614	4	· BOLT, 7/16"-14 X 1-3/4"		
			·		
20SF2	R4186400	2	· FLANGE HALF, 1-1/4"		
	R4068357	1	· O-RING, 1-1/2" I.D. - POLYURETHANE		
	R4210348	4	· FLATWASHER, 7/16" - HARDENED		
	R4122903	4	· BOLT, 7/16"-14 X 3"		
			·		
20SF3	R4186400	2	· FLANGE HALF, 1-1/4"		
	R4068357	1	· O-RING, 1-1/2" I.D. - POLYURETHANE		
	R4210348	4	· FLATWASHER, 7/16" - HARDENED		
	R4009518	4	· BOLT, 7/16"-14 X 4"		
			·		
24SF1	R4186401	2	· FLANGE HALF, 1-1/2"		
	R4068358	1	· O-RING, 1-7/8" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R0827222	4	· BOLT, 1/2"-13 X 2"		
			·		
24SF2	R4186401	2	· FLANGE HALF, 1-1/2"		
	R4068358	1	· O-RING, 1-7/8" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R4009755	4	· BOLT, 1/2"-13 X 3-1/4"		
			·		
24SF3	R4186401	2	· FLANGE HALF, 1-1/2"		
	R4068358	1	· O-RING, 1-7/8" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R4009758	4	· BOLT, 1/2"-13 X 5"		
			·		
24SF4	R4186401	2	· FLANGE HALF, 1-1/2"		
	R4068358	1	· O-RING, 1-7/8" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R4009759	4	· BOLT, 1/2"-13 X 5-1/2"		
			·		
24SF5	R4186401	2	· FLANGE HALF, 1-1/2"		
	R4068358	1	· O-RING, 1-7/8" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R4222260	4	· BOLT, 1/2"-13 X 5-3/4"		
			·		
32SF1	R4186402	2	· FLANGE HALF, 2"		
	R4071255	1	· O-RING, 2-1/4" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R0827222	4	· BOLT, 1/2"-13 X 2"		
			·		
32SF2	R4223453	2	· FLANGE HALF, 2"		
	R4071255	1	· O-RING, 2-1/4" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R4009753	4	· BOLT, 1/2"-13 X 1-1/2"		
			·		
32SF3	R4186402	2	· FLANGE HALF, 2"		
	R4071255	1	· O-RING, 2-1/4" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R0824790	4	· BOLT, 1/2"-13 X 1-3/4"		
			·		
40SF1	R4244582	2	· FLANGE HALF, 2-1/2"		
	R4116301	1	· O-RING, 2-3/4" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		

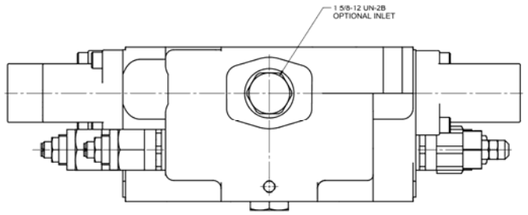
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4009753	4	· BOLT, 1/2"-13 X 1-1/2"		
			·		
40SF2	R4244582	2	· FLANGE HALF, 2-1/2"		
	R4116301	1	· O-RING, 2-3/4" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R0824790	4	· BOLT, 1/2"-13 X 1-3/4"		
			·		
40SF3	R4222106	2	· FLANGE HALF, 2-1/2"		
	R4116301	1	· O-RING, 2-3/4" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R0827222	4	· BOLT, 1/2"-13 X 2"		
		REF	DIAGRAM AND SCHEMATIC, FLUID POWER (R427102005)		6/23/17

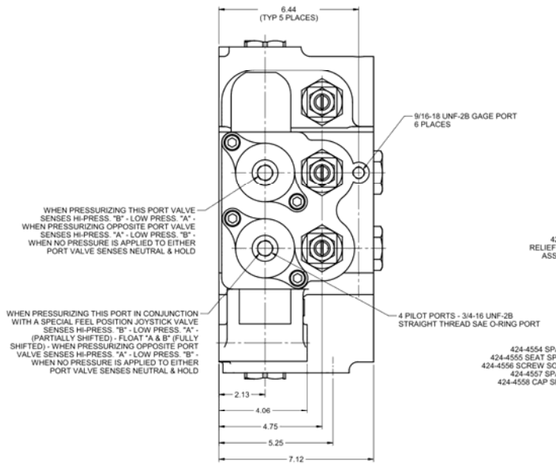
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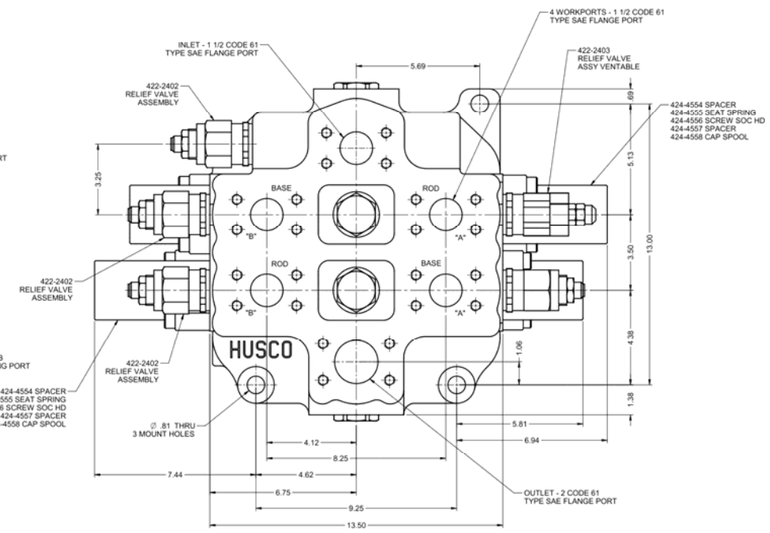
DUAL CONTROL VALVE ASSEMBLY

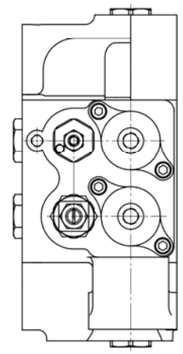
REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHD	CHK	APP
	00	RELEASED	NL03-0015	10-06	TEW	RWD	DMF
	01	ADD SERVICE PARTS 4244554,55,56,57,58	NL04-1420	4-21	KMD	RWD	RWD
	02	ADDED SERVICE PART 427-3405	NL11-0774	4-1	TEW	AY	AY
	03	ADDED BLACK PAINT NOTE	NL11-1252	04-11	BAM	SEM	SEM

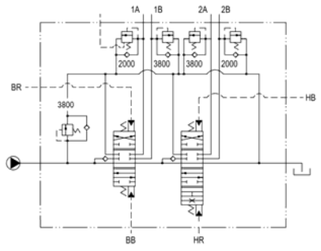


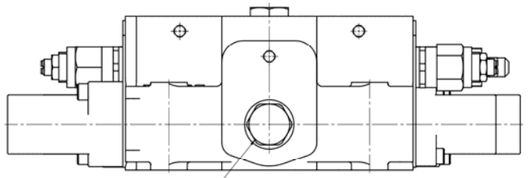
HUSCO TEST SPECIFICATIONS:
1.) TEST WITH PETROLEUM BASED 10W HYD. OIL @ 110° ±10°F (129 SSU)
2.) MAIN RELIEF VALVE TO BE SET AT 3800 ±25 PSI @ 5 GPM
3.) LEAKAGE RATES TO BE AS FOLLOWS AT 1000 PSI:
A.) SPOOLS, PORTS 1B & 2A, 7.5 CIPM MAX. PORTS 1A & 2B, 15 CIPM MAX.
B.) LOAD CHECK, ALL PORTS; NOT TO EXCEED 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:
• 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

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

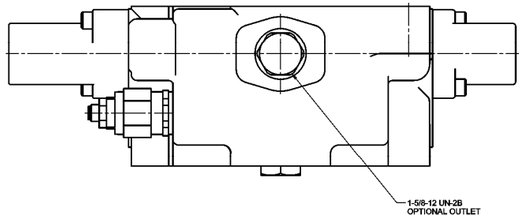
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

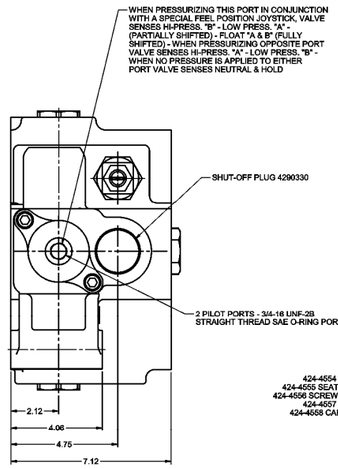
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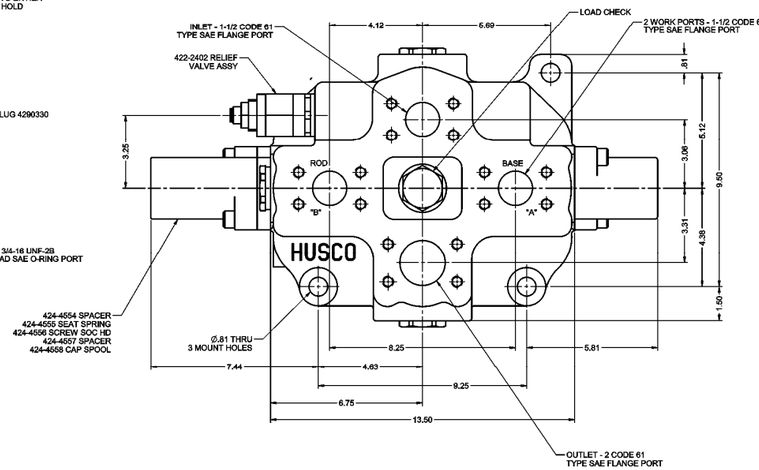
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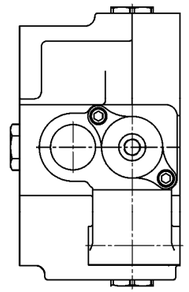
SINGLE CONTROL VALVE ASSEMBLY



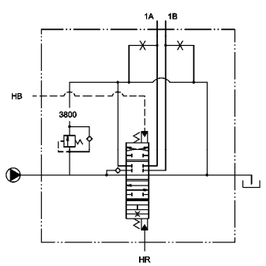
HUSCO TEST SPECIVICATIONS:
1. TEST WITH PETROLEUM BASED 10W HYD. OIL @ 110°±10°F (129 SSU)
2. MAIN RELIEF VALVE TO BE SET AT 3800±25 PSI @ 5 GPM
3. LEAKAGE RATES TO BE AS FOLLOWS AT 1000 PSI:
   A. SPOOLS, PORTS 1A; 7.5 CIPM MAX. PORTS 1B; 15 CIPM MAX.
   B. LOAD CHECK, ALL PORTS; NOT TO EXCEED 45 CIPM 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

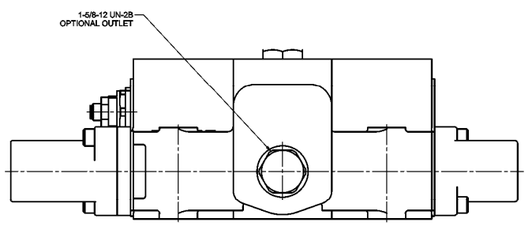






LeTOURNEAU SPECIFICATIONS:
PART NO.: 424-9686
PUMP OUTPUT: 125 GPM MAX.
OPERATION PRESSURE: 3800 PSI
OPERATING TEMP.: -40°TO +220°F
OIL TYPE: SAE 10W
CENTERING SPRINGS ARE ADEQUATE TO RETURN SPOOLS TO NEUTRAL PER ABOVE INFORMATION.





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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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°; 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

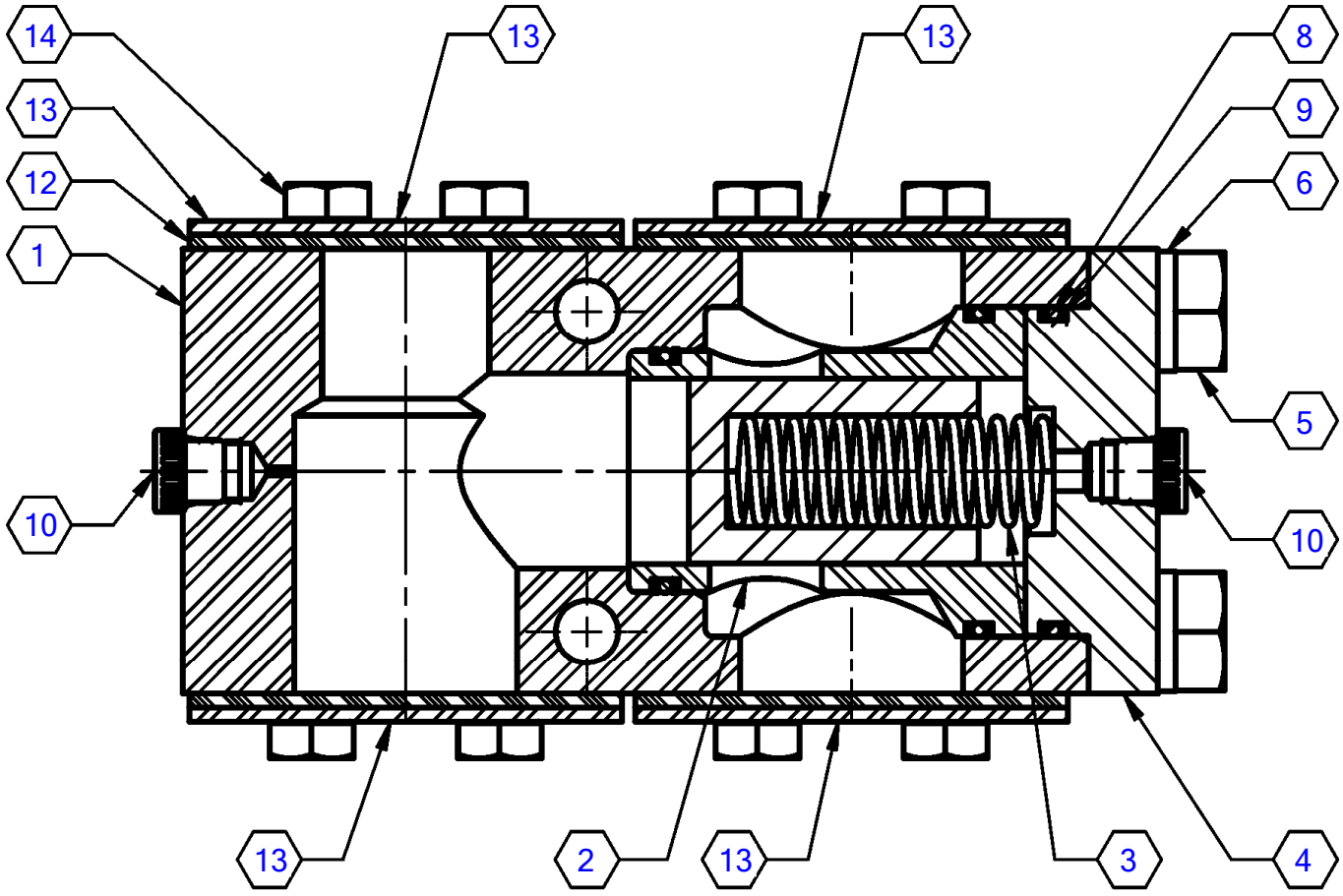
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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OIL COOLER CONTROL VALVE ASSEMBLY



423-8022

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OIL COOLER CONTROL VALVE ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4238022		VALVE ASSEMBLY, OIL COOLER		4/25/11
1	R4238021	1	· HOUSING, OIL COOLER CONTROL VALVE		
2	R4102096	1	· CARTRIDGE ASSEMBLY, 40 MM		
	R4154866	REF	· · SEAL KIT		
3	R4233245	1	· SPRING		
4	R4163872	1	· CAP, END		
5	R0025762	4	· BOLT, 5/8"-11 X 1-1/2"		
6	R0021541	4	· LOCKWASHER, 5/8"		
7	N.P.N.		· NOT USED		
8	R4154858	1	· O-RING, 2-5/8" I.D. - POLYURETHANE		1/15/05
9	R4154860	2	· RING, BACK-UP		
10	R4150422	2	· PLUG, CAP - 6 MM		
11	R4150427	2	· PLUG, CAP - 1-1/4"		
12	R4244793	4	· SEAL, CAP PLATE		
13	R4244794	4	· CAP PLATE		
14	R0021611	16	· BOLT, 1/2"-13 X 3/4"		
		REF	DRAWING, OIL COOLER VALVE ASSEMBLY (R423802210)		4/25/11

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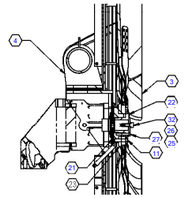
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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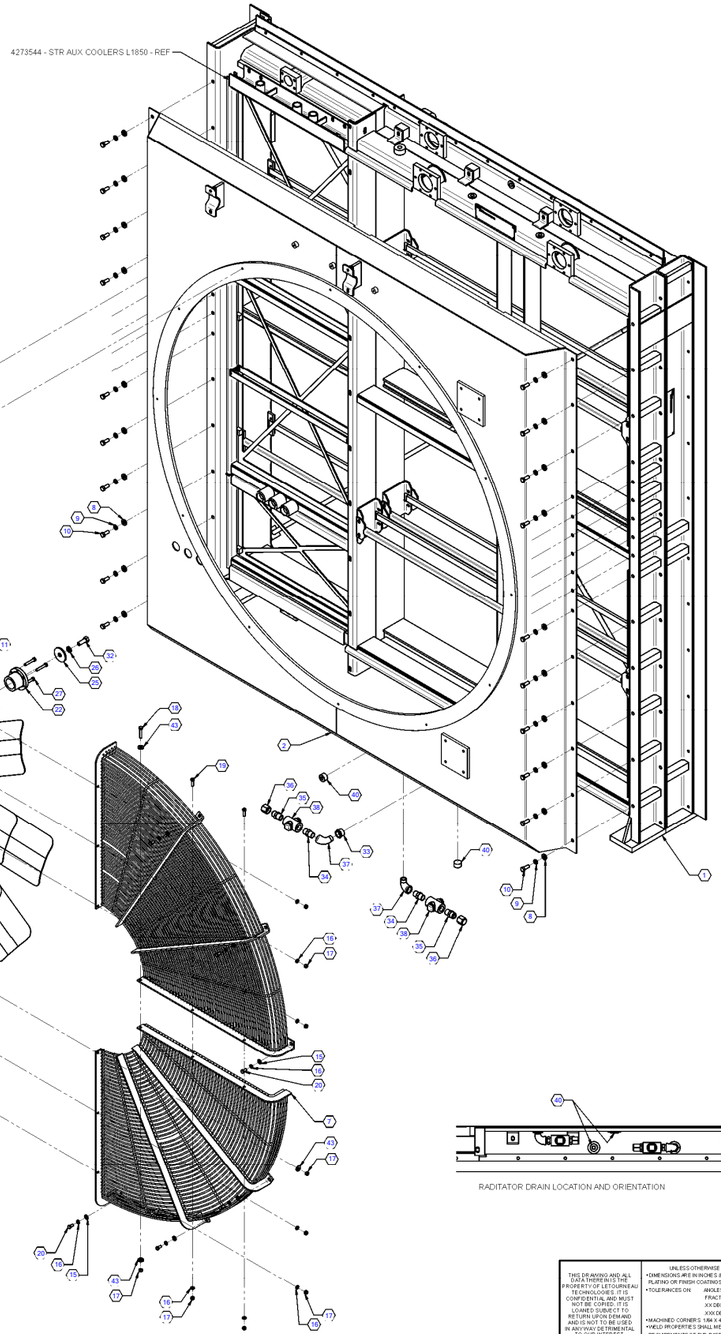
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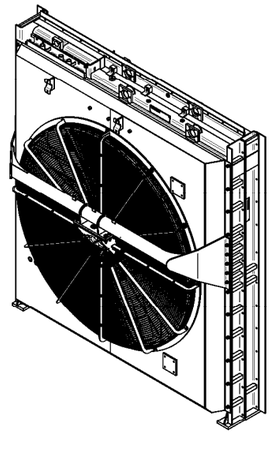
RADIATOR, OIL COOLER AND FAN ASSEMBLY

REVISIONS							
ZONE	REV	DESCRIPTION	ECR	DATE	CHG	CHK	APP
	00	RELEASE	NL11-0178	06-07-2011	TDR	TMW	TMW
	01	RMV IT 33 (4188771), IT 6 (4277868) WAS 4177296 &					
	01	22 (4236974) WAS 4140700	NL12-1656	04-10-2012	TDR	TMW	TMW
	02	UPDATED IT 4 (4259861)	NL12-1659	05-09-2012	TDR	TMW	TMW
	03	ADD ITEM 33 (4013796), 34 (4123236), 35 (4002422),					
	03	36 (4123617), 37 (0066769), 38 (4035388).					
	03	IT 39 (4271726)	NL12-1954	07-30-12	KLH	TMW	TMW
	04	QTY IT 8 WAS 36, ADD IT 40 (4013958) ADD REF					
	04	IT 41 (4273544)	NL13-1805	01-15-14	KLH	TMW	TMW
	05	P1000127, MOVE ITEMS 6, 28, 29 TO HYD GP 4271030, IT8					
	05	(4285290) (29) WAS (6190991)(42), IT9 (26) WAS 30,IT14(4009755)					
	05	WAS 0827221, IT 16(27) WAS 24, IT27(3) WAS 4, DEL IT39, M16					
	05	1063, ADD IT 42, M16 1572	1301870	4-22-15	RAH	JBD	JBD
	06	DEL REF ITEMS 6 (4277868), 28 (0021639), 29 (4016018).					
	06	41 (4273544), IT 8 WAS (6190991) QTY 20, IT 16 WAS (4229683),					
	06	IT 42 WAS (4285290) QTY 12, IT 43 WAS (4210449), QTY IT 16					
	06	WAS 27, ADD IT 44 (4287517)	1322187	05-05-16	KLH	TMW	TMW

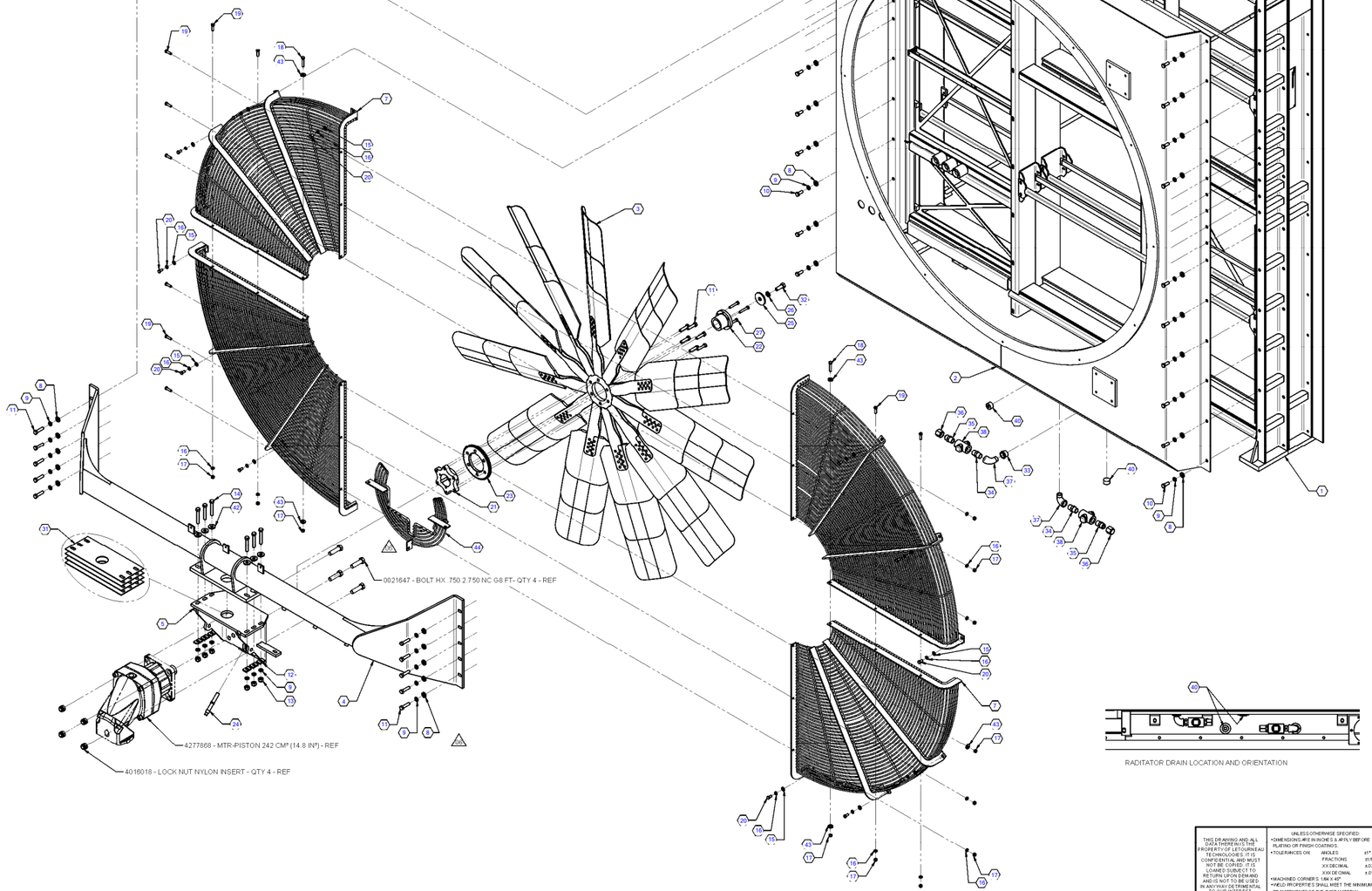


SECTION A-A





1:16



RADITATOR DRAIN LOCATION AND ORIENTATION

NOTES:
1. ITEM 30 NOT SHOWN
2. ITEM 31 USED AS NEEDED

ITEM	PART NO.	QTY	DESCRIPTION
44	4287517	1	GUARD INSERT FAN 80.50
43	4286552	5	WASHER FLAT .438 1.030 .130
42	4286554	6	WASHER FLAT .563 1.375 .195
40	4013958	2	PIPE PLUG 1.00 CS SQ MAGNETIC
38	4035388	2	DRAIN VALVE
37	0066769	2	PIPE ELB .750 90 STREET .150
36	4123617	2	CAP NUT #12 JIC
35	4002422	2	FTG HYD .0.12 M J 12 MP
34	4123236	2	NIPPLE-HEX PIPE 3/4 (HYD)
33	4013796	1	PIPE RED 1.000 .750 BSH 6000
32	0021629	1	BOLT HX .625 1.750 NC G8
31	4182987	4	SHIM, 1/8
30	8421197	20 FT	RUBBER SEAL
27	4009842	3	BOLT HX .375 UNC X 2.25 LG
26	0021541	1	WASHER LOCK SPR .625 1.08 .16
25	4121199	1	WASHER, RETAINER
24	6980376	1	MAGNETIC SPEED SENSOR
23	4221349	1	GEAR FAN SENSOR
22	4236974	1	SPLIT TAPER BUSHING 50MM
21	4181056	1	HUB, FAN
20	0810970	12	BOLT HX .375 .750 NC G8 FT
19	0808476	10	BOLT HX .375 1.250 NC G8
18	4009841	2	BOLT HX .375 UNC X 2.00 G8
17	0812921	12	NUT HX 0.375-16UNC-2B G8 PL
16	0753123	21	WASHER LOCK SPR .375 .68 .09
15	0808221	12	WASHER FLAT .375 .81 .08
14	4009755	6	BOLT HX .500 3.250 NC G8
13	4016017	6	NUT LOCK NYL INS .500 NC
12	4210457	6	WASHER-FLAT - MODIFIED
11	0827222	16	BOLT HX .500 2.000 NC G8
10	4009752	20	BOLT HX .500 1.250 NC G8 FT
9	0801181	36	WASHER LOCK SPR .500 .873 .125
8	4285260	30	WASHER FLAT .531 1.063 .188
7	4275046	4	GUARD FAN 84
5	4236976	1	STR, MOUNT MOTOR RADIATOR FAN
4	4259861	1	CROSSMEMBER, FAN MOTOR
3	4275044	1	FAN ENG 84 PUSH T2 G2 L18/2350
2	4275054	1	STR RADIATOR SHROUD G2 L1850
1	4259361	1	RDTR ASSY L1850 4/3 M-TUBE

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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 MM X 45°.
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

		DATE
DWN	TOM REAGH	06-07-2011
CHK	TIM WOLF	06-07-2011
ENGR	TIM WOLF	06-07-2011
PROD ENGR		
PROJ APPROVAL		
MAT'L	PURCHASED C	

LeTourneau Technologies™

ASSY RDRT O/C FAN MTR G2 L1850

SIZE E | DO NOT SCALE | DWG NO. 4275043 | REV 06

SCALE 1:8 | WEIGHT 3419.6 lbm | SHEET 1 OF 1

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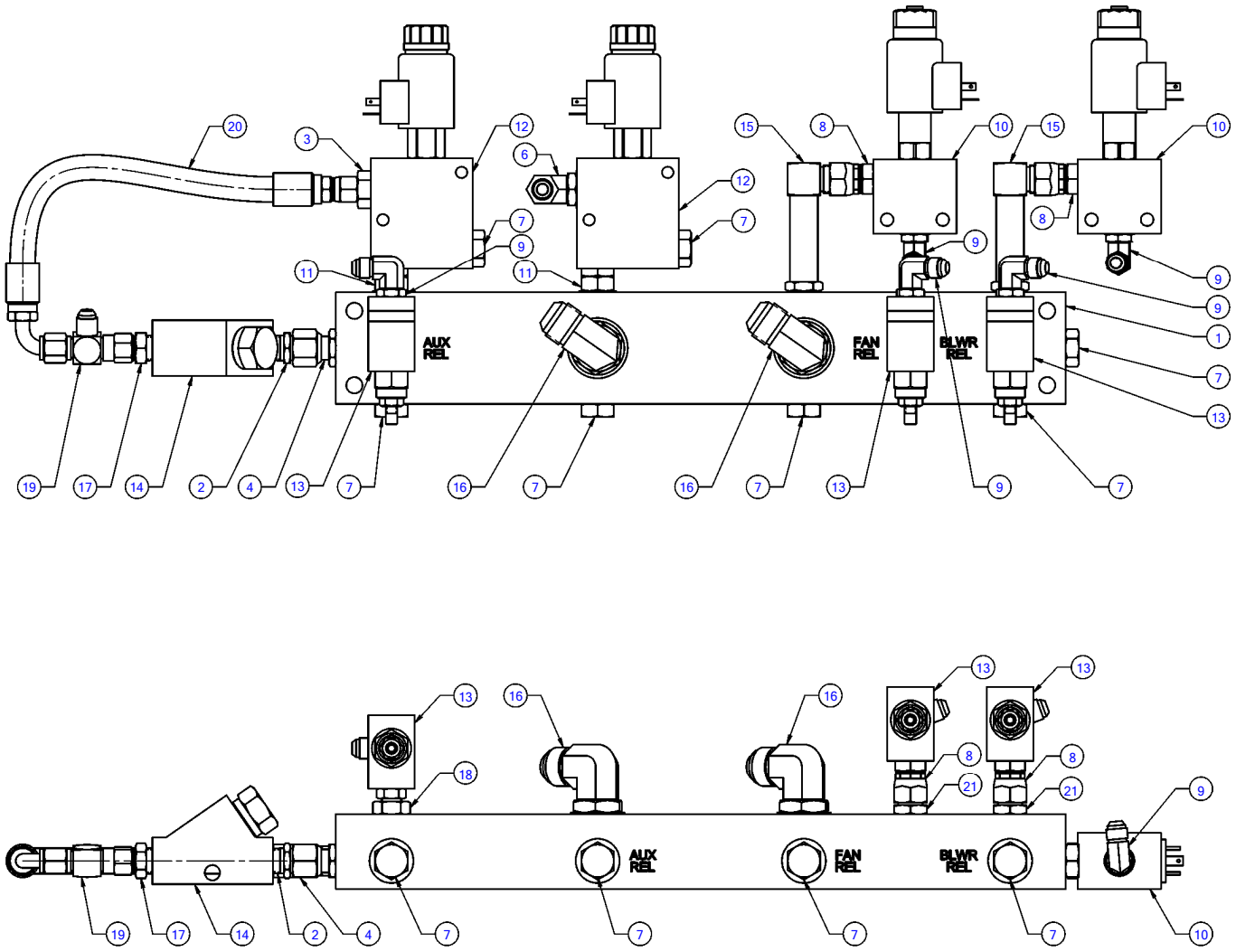
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4275043	1		RADIATOR, OIL COOLER AND FAN ASSEMBLY		5/30/18
1	R4259361	1		· RADIATOR/OIL COOLER ASSEMBLY		
2	R4275054	1		· SHROUD STRUCTURE, RADIATOR		
3	R4275044	1		· FAN ASSEMBLY - 84", 11 BLADE		
4	R4259861	1		· CROSSMEMBER, FAN MOTOR		
5	R4236976	1		· MOUNT STRUCTURE, FAN MOTOR		
6	N.P.N.			· NOT USED		4/11/17
7	R4275046	4		· GUARD, FAN		11/10/14
8	R4285260	30		· FLATWASHER, 9/16" I.D. X 1-1/16" O.D. X 3/16"		4/11/17
9	R0801181	36		· LOCKWASHER, 1/2"		4/11/17
10	R4009752	20		· BOLT, 1/2"-13 X 1-1/4"		
11	R0827222	16		· BOLT, 1/2"-13 X 2"		
12	R4210457	6		· FLATWASHER, 1/2" I.D. X 1-1/2" O.D. X 1/4" - CUT		
13	R4016017	6		· LOCKNUT, 1/2"-13 - NYLON		
14	R4009755	6		· BOLT, 1/2"-13 X 3-1/4"		4/11/17
15	R0808221	12		· FLATWASHER, 3/8"		
16	R0753123	24		· LOCKWASHER, 3/8"		
17	R0812921	12		· NUT, 3/8"-16		
18	R4009641	2		· BOLT, 3/8"-16 X 2"		4/11/17
19	R0808476	10		· BOLT, 3/8"-16 X 1-1/4"		
20	R0810970	12		· BOLT, 3/8"-16 X 3/4"		
21	R4181056	1		· HUB, FAN		
22	R4236974	1		· BUSHING, SPLIT TAPER		
23	R4221349	1		· GEAR, FAN SPEED		
24	R6980376	1		· SENSOR, SPEED		
	R4149096	REF		· CABLE ASSEMBLY, SPEED SENSOR		
	R4260477	REF		· HARNESS ASSEMBLY, ENGINE FAN SPEED SENSOR - TURCK		5/30/18
25	R4121199	1		· WASHER, RETAINER		
26	R0021541	1		· LOCKWASHER, 5/8"		
27	R4009642	3		· BOLT, 3/8"-16 X 2-1/4"		4/11/17
28	N.P.N.			· NOT USED		4/11/17
29	N.P.N.			· NOT USED		4/11/17
30	R8421197	20	FT	· SEAL, RUBBER - 3/8" X 1-1/4"		
31	R4182967	4		· SHIM, 1/8"		
32	R0021629	1		· BOLT, 5/8"-11 X 1-3/4"		
33	R4013796	1		· BUSHING, 3/4" FP X 1" MP		11/10/14
34	R4123236	2		· NIPPLE, PIPE - 3/4", HEX		11/10/14
35	R4002422	2		· ADAPTER, 3/4" MP X #12 MJ		11/10/14
36	R4123617	2		· NUT, CAP - #12 JIC		11/10/14
37	R0066769	2		· ELBOW, 3/4" FP X 90 deg. X 3/4" MP		11/10/14
38	R4035388	2		· VALVE, DRAIN - 3/4"		11/10/14
39	N.P.N.			· NOT USED		4/11/17
40	R4013958	2		· PLUG, PIPE - 1" SQ. CSK. MAG.		11/10/14
41	N.P.N.			· NOT USED		4/11/17
42	R4286554	6		· FLATWASHER, 5/8" X 1-3/8" X 3/16" - HARDENED		4/11/17
43	R4286552	5		· FLATWASHER, 7/16" X 1" X 1/8" - HARDENED		4/11/17
44	R4287517	1		· INSERT, FAN GUARD		4/11/17
	R4277868	REF		MOTOR, PISTON - 242 CM3 (14.8 IN3)		
	R0021647	REF		BOLT, 3/4"-10 X 2-3/4"		
	R4016018	REF		NUT, 3/4"-10 - NYLON		
	R4273544	REF		COOLER STRUCTURE, GEARBOX AND SR CABINET (SEE NOTE)		11/10/14
				NOTE:		1/31/13

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
				· THE GEARBOX AND SR CABINET COOLER STRUCTURE IS A WELDED		
				· STRUCTURE AND HAS NO SERVICE PARTS.		
				DRAWING, RADIATOR, OIL COOLER AND FAN ASSEMBLY (R427504306)		4/11/17

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PROPORTIONAL AND RELIEF MANIFOLD ASSEMBLY



4273446

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PROPORTIONAL AND RELIEF MANIFOLD ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273446		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, PIPE - #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	1	· TEE, #6 MJ X #6 FJ X #6 MJ		
20	R4186018	1	· HOSE ASSEMBLY, #6 X 14"		
		REF	DRAWING, PROPORTIONAL AND RELIEF MANIFOLD ASSEMBLY (R427344602)		

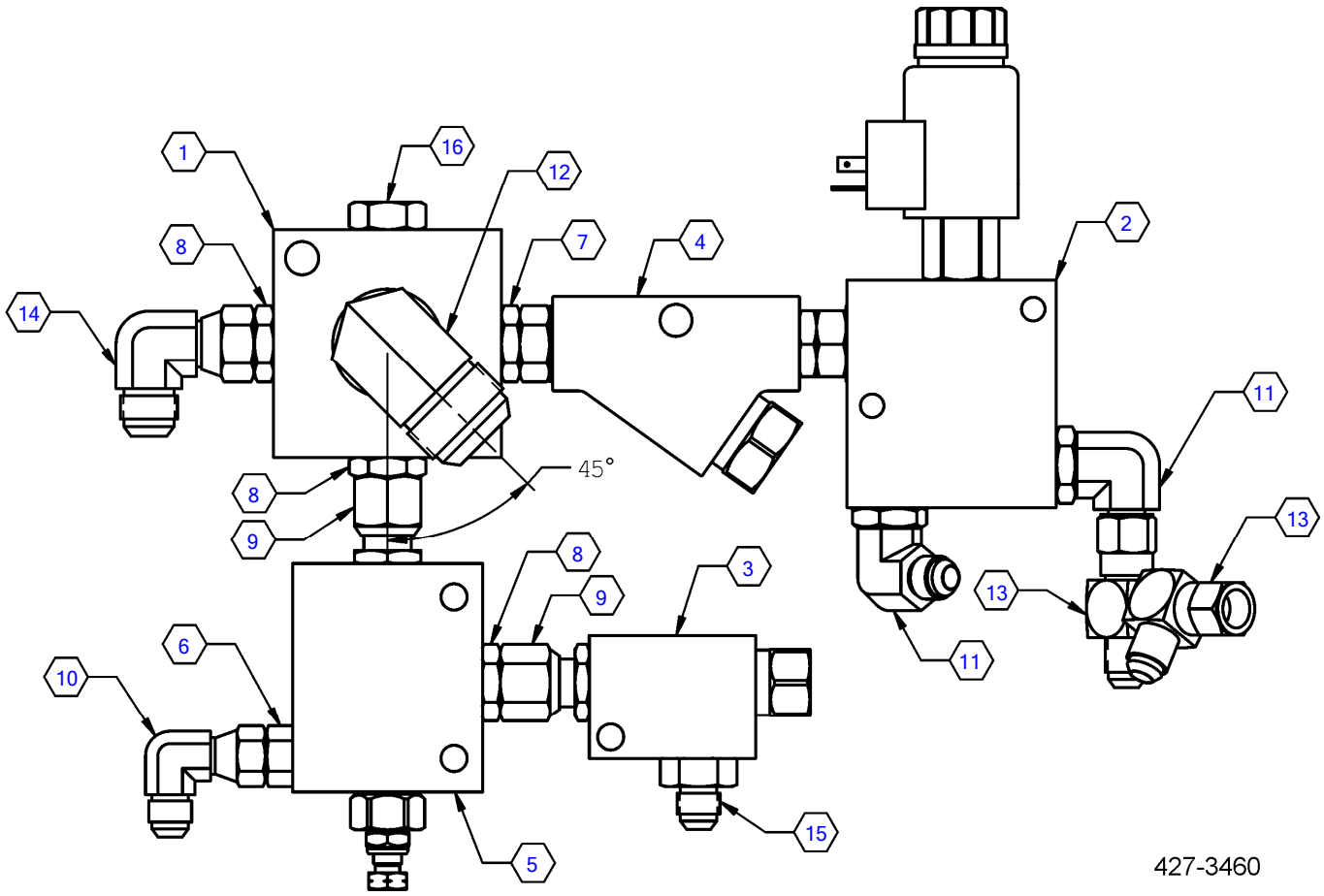
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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
	R4273460		REAR ACCESSORY VALVE ASSEMBLY		5/7/15
1	R4170566	1	· MANIFOLD STRUCTURE - 5 PORT		
2	R4244831	1	· VALVE ASSEMBLY, SOLENOID - 2-WAY N.O.		
	R4138101	1	· · SEAL KIT		
	R4244836	1	· · COIL, 24VDC		
	R4280397	1	· · NUT, COIL		5/7/15
	R4280295	1	· · VALVE ASSEMBLY, 3-WAY		5/7/15
3	R4244881	1	· VALVE, FLOW CONTROL - 2.5 GPM		
4	R4264870	1	· VALVE, FLOW CONTROL - P.C., 6 GPM		
5	R4273458	1	· VALVE, SEQUENCE - PILOT OPERATED		
6	R4002454	1	· ADAPTER, #6 MO X #6 MJ		
7	R4030078	2	· ADAPTER, #8 MO X #8 MO		
8	R4002455	3	· ADAPTER, #8 MO X #8 MJ		
9	R4116765	2	· ADAPTER, #8 MO X #8 FJ		
10	R4002478	1	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
11	R4017400	2	· ELBOW, #8 MO X 90 deg. X #6 MJ - ADJ.		
12	R4040556	1	· ELBOW, #12 MO X 90 deg. X #16 MJ		
13	R4131486	2	· TEE, #6 MJ X #6 FJ X #6 MJ		
14	R4002479	1	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
15	R4020771	1	· ADAPTER, #8 MO X #6 MJ		
16	R4020769	1	· PLUG, PIPE - #8 MO		
		REF	DRAWING, REAR ACCESSORY VALVE ASSEMBLY(R427346000)		

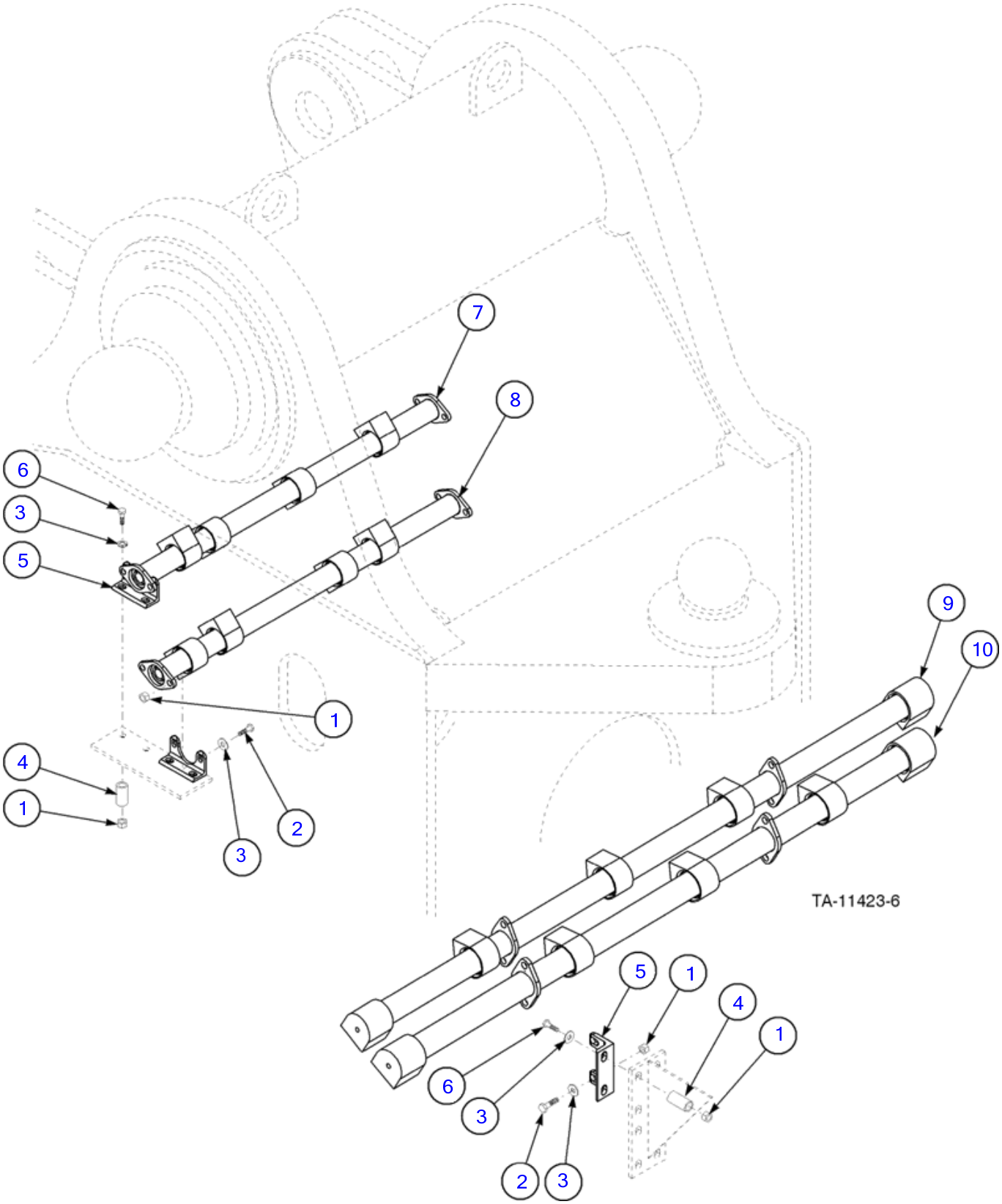
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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HYDRAULIC CROSSOVER TUBES



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			HYDRAULIC CROSSOVER TUBES (PL-557)		
1	R4016018	32	· LOCKNUT, 3/4"-10 - NYLON		
2	R4009525	32	· BOLT, 3/4"-10 X 2-1/4"		
3	R4211003	32	· FLATWASHER, 3/4" I.D. X 2" O.D. X 1/4" - CUT, HARDENED		
4	R4211004	16	· SPACER, 13/16" I.D. X 1-1/2" O.D. X 2"		
5	R4103010	8	· MOUNT BRACKET, ANGLE		
6	R0021656	16	· BOLT, 3/4"-10 X 5"		
7	R4188884	1	· PIPE ASSEMBLY, CROSSOVER - BUCKET BASE		
8	R4188885	1	· PIPE ASSEMBLY, CROSSOVER - BUCKET ROD		
9	R4188887	1	· PIPE STRUCTURE, CROSSOVER - HOIST ROD		
10	R4188888	1	· PIPE STRUCTURE, CROSSOVER - HOIST BASE		

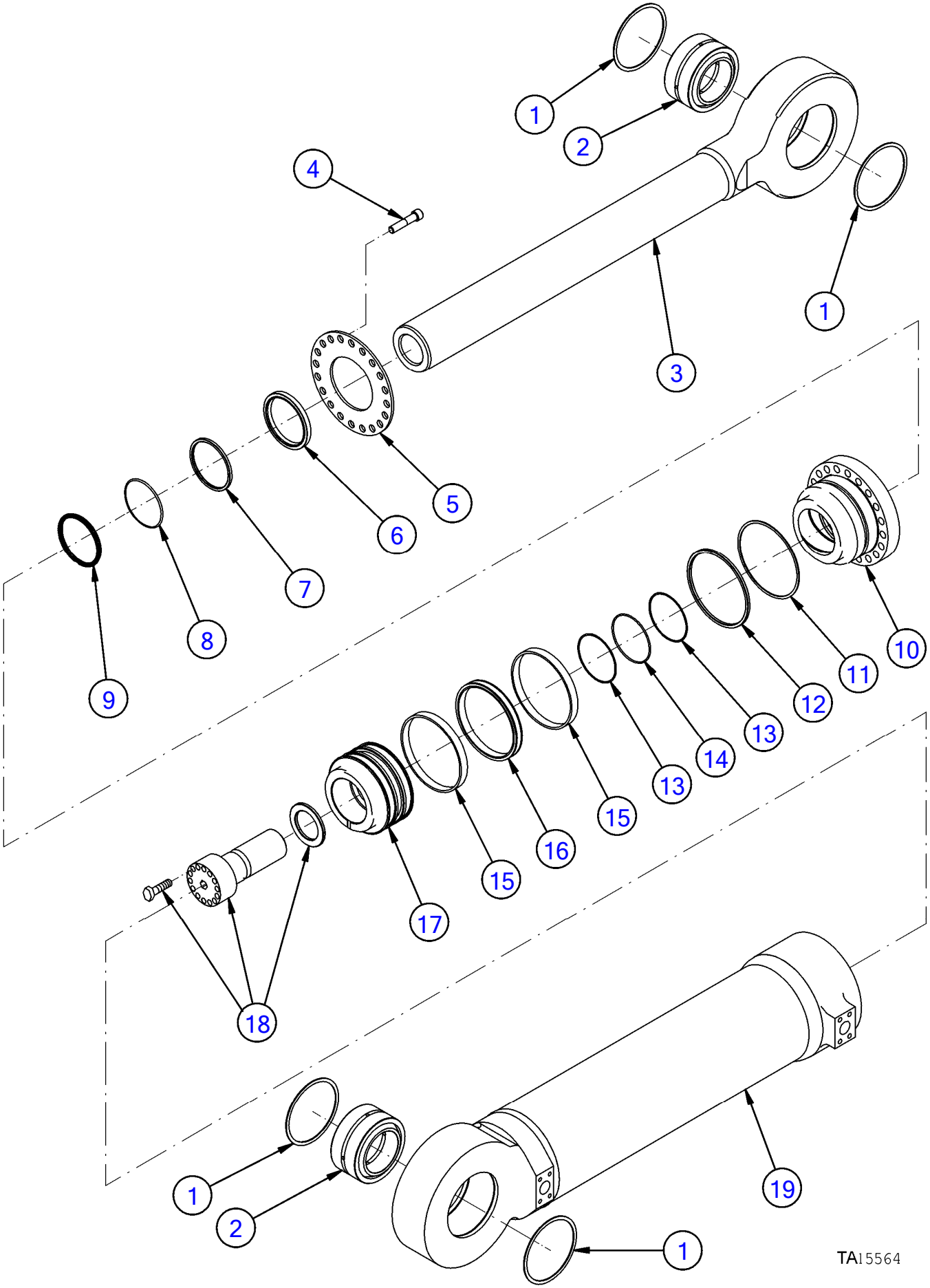
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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
	R4219244		STEER CYLINDER ASSEMBLY		6/11/13
1	R4093488	4	· RING, RETAINING - INTERNAL		
2	R6944893	2	· BUSHING, SELF-ALIGNING - 4"		
	R4261471	1	· STEER CYLINDER ASSEMBLY		
3	R4267890	1	· · ROD, CYLINDER		
4	R4267893	20	· · CAPSCREW, 5/8"-11 X 3" - SOCKET HD.		
	R4257110	REF	· · CAPSCREW, 5/8"-11 X 3-1/2" - SOCKET HD.		6/11/13
5	R4271203	1	· · RETAINER PLATE		
	R4257111	REF	· · WASHER, 5/8" X 1-1/16" X 3/16"		
6	R4271198	1	· · SEAL, ROD WIPER		
	R4256369	REF	· · SEAL, ROD WIPER		
7	R4256367	1	· · SEAL, U-CUP		
8	R4256368	1	· · SEAL, U-CUP		
9	R4256366	1	· · SEAL, ROD		
10	R4271205	1	· · HEAD		
	R4256364	REF	· · HEAD		
11	R4234104	1	· · RING, BACK-UP		
12	R4244906	1	· · SEAL, QUAD RING - 7" I.D. - NITRILE		
13	R4068217	2	· · RING, BACK-UP		
14	R4068213	1	· · O-RING, 4-1/2" I.D. - BUNA N		
15	R4256370	2	· · RING, WEAR - PISTON		
16	R4219220	1	· · SEAL, PISTON - 7-1/2" O.D. - NITRILE		
17	R4267891	1	· · PISTON		
18	R4267892	1	· · SUPERBOLT, 2-3/4" X 7"		
19	R4267885	1	· · TUBE STRUCTURE		
			NOTE:		
	R4256365	REF	· SEAL KIT		11/8/10
			NOTE:		11/8/10
			· AN OLD CONFIGURATION CYLINDER ASSEMBLY CAN BE CONVERTED TO		
			· THE NEW CONFIGURATION CYLINDER BY CHANGING ITEMS 4, 5 AND 10.		
			· INSTRUCTIONS ARE INCLUDED WITH SEAL KIT.		
		REF	DRAWING, STEER CYLINDER ASSEMBLY (R426147105)		9/20/12

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

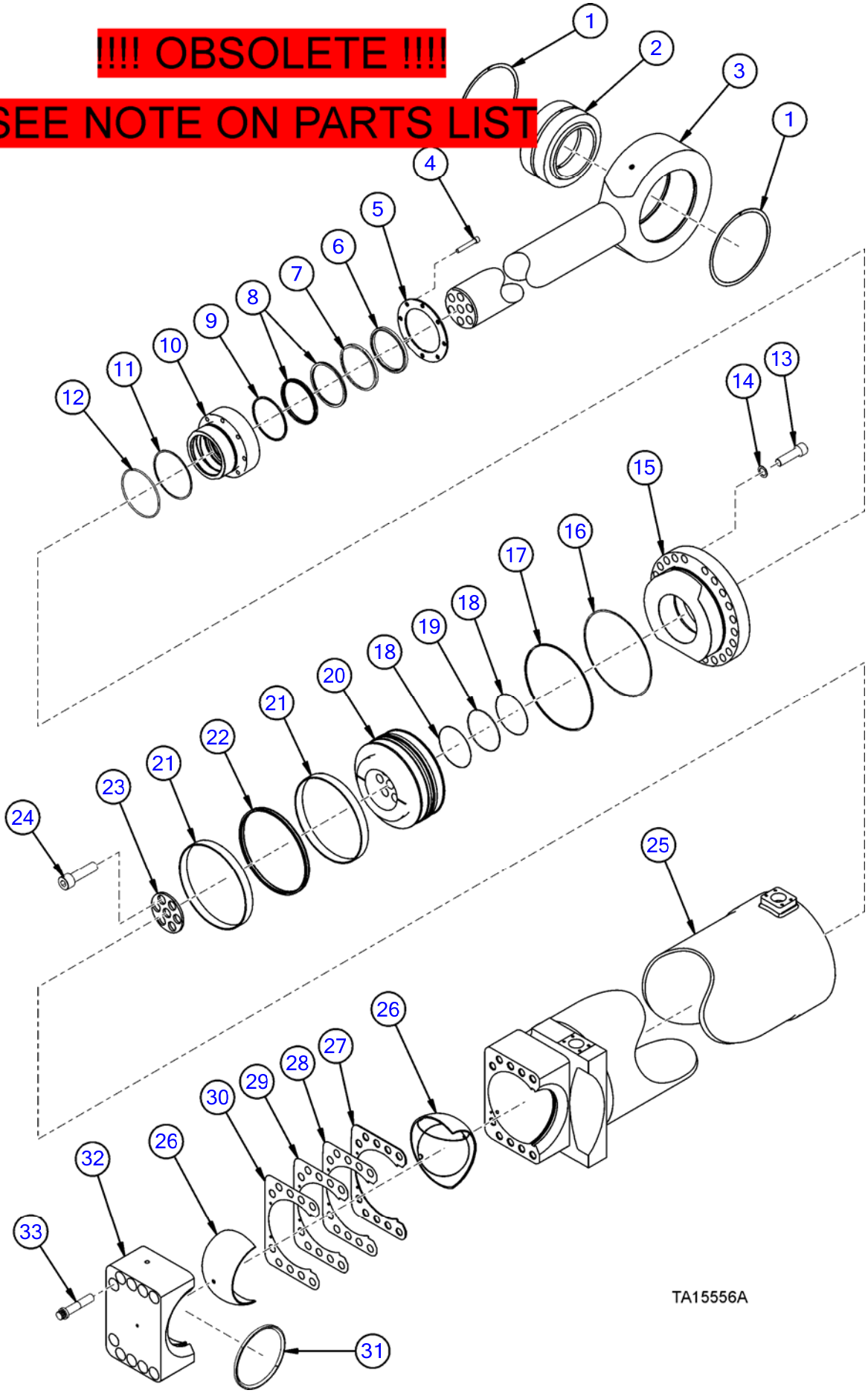
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HOIST CYLINDER ASSEMBLY

!!!! OBSOLETE !!!!

SEE NOTE ON PARTS LIST



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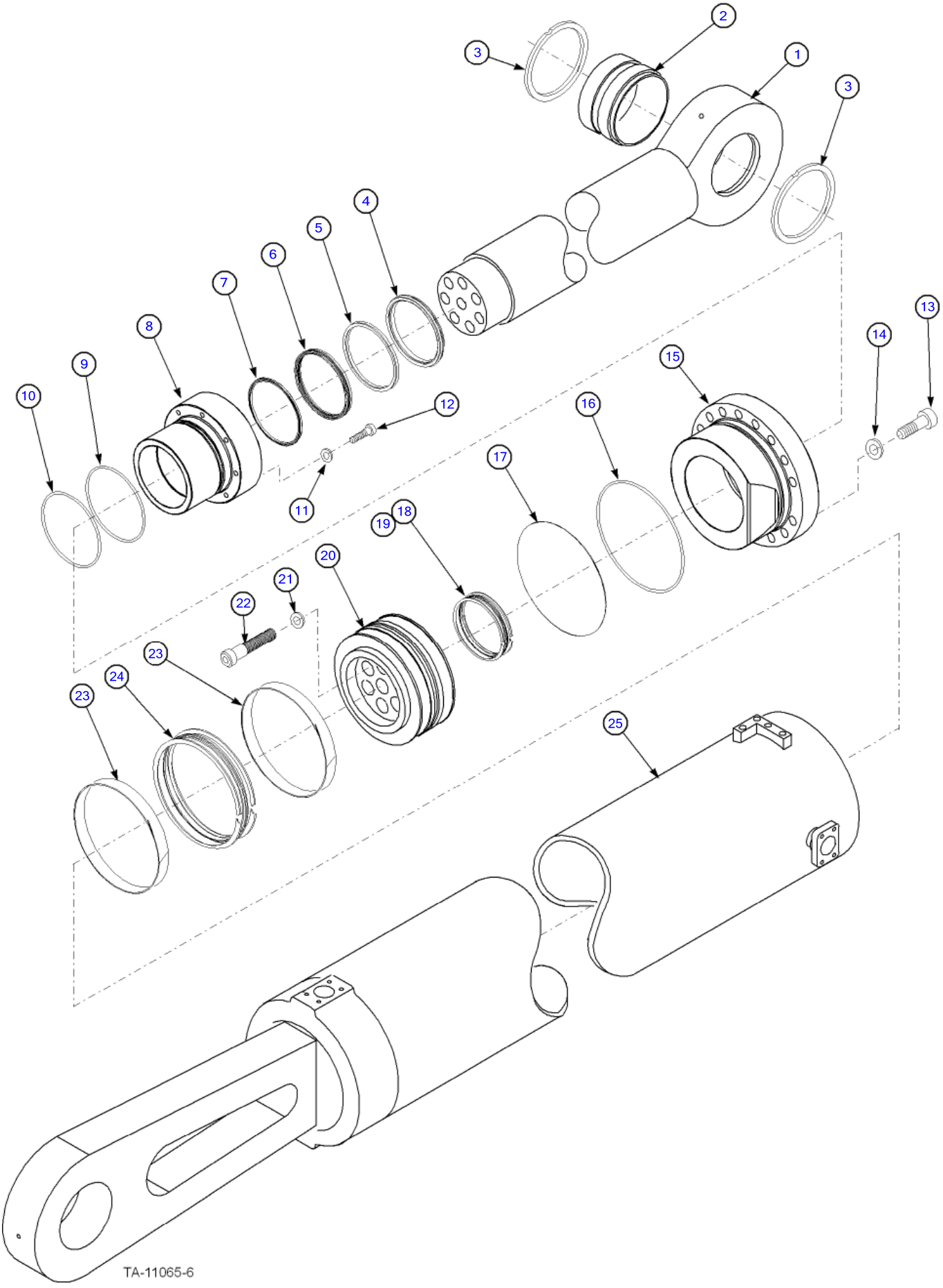
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			! ! ! ! THIS HOIST CYLINDER ASSEMBLY R4273325 IS OBSOLETE AND IS REPLACED WITH R4290003. ! ! ! !		5/3/18
			THE SERVICE PARTS FOR R4273325 ARE STILL AVAIABLE FOR CYLINDER REBUILD.		5/3/18
	R4273325	1	HOIST CYLINDER ASSEMBLY		6/24/13
1	R4241002	REF	· RING, RETAINING - INTERNAL, 13-3/8"	2	
2	R4241000	REF	· BUSHING, SELF-ALIGNING - 8-1/2" I.D. X 12-3/4" O.D.	1	
3	R4273323	1	· ROD STRUCTURE		
4	R4271213	8	· CAPSCREW, 5/8"-11 X 4"		
5	R4271210	1	· RETAINER PLATE		
6	R4271201	1	· WIPER, 7" X 8" X 1/2"		
7	R4241224	1	· SEAL, U-CUP		
8	R4241228	1	· SEAL, U-CUP		
9	R4241223	1	· SEAL, ROD BUFFER - 7"		
10	R4271211	1	· PACKING GLAND, HOIST CYLINDER		
11	R4241234	1	· RING, BACK-UP		
12	R4246340	1	· O-RING, 1/4" X 8-1/2" - BUNA N		
13	R4255697	22	· CAPSCREW, 1-1/4"-7 X 4-1/2"		
14	R4246384	22	· FLATWASHER, 2" X 1-5/16"		
15	R4257101	1	· HEAD		
16	R4271215	1	· RING, BACK-UP - 458 5.00		
17	R4271214	1	· SEAL, QUAD RING		
18	R4267969	2	· RING, BACK-UP		
19	R4267968	1	· O-RING, 7" I.D. - BUNA N		
20	R4271212	1	· PISTON, HOIST CYLINDER		
21	R4243967	2	· RING, WEAR		
22	R4211368	1	· SEAL, PISTON		
23	R4271199	1	· WASHER PLATE		
24	R4221020	7	· CAPSCREW, HI-STRENGTH		
25	R4257102	1	· TUBE STRUCTURE		1/25/13
	R4161181	1	· SOCKET, BALL - 12", 10 BOLT		1/25/13
26	R4081645	REF	LINER, BALL - HALF, 12"	2	
27	R4170754	REF	SPACER, 3/16"	1	6/24/13
28	R4170756	REF	SHIM, .030"	AR	
29	R4170755	REF	SHIM, .018"	AR	
30	R4083039	REF	SHIM, .007"	AR	
31	R4261580	REF	SEAL, BALL - 12" - NITRILE	1	
32	R4161182	REF	CAP, BALL - 12", 10 BOLT	1	
33	R4233222	REF	CAPSCREW, 1-1/4"-7 X 6"	10	
	R4243965	1	SEAL KIT, HOIST CYLINDER		
			NOTE:		1/25/13
			· TUBE STRUCTURE R4257102 AND BALL SOCKET R4161181 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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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
		REF	DRAWING, HOIST CYLINDER ASSEMBLY (R427332401)		

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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
	R4273483		BUCKET CYLINDER ASSEMBLY		11/13/13
2	R6964139	2	· BUSHING, SELF-ALIGNING - 6" I.D. X 8-3/4" O.D.		
3	R4093490	4	· RING, RETAINING - INTERNAL, 9" O.D.		
	R4241008	1	· BUCKET CYLINDER ASSEMBLY		7/16/12
1	R4246361	1	· · ROD STRUCTURE		
4	R4271201	1	· · WIPER, 7" X 8" X 1/2"		1/11/12
5	R4241224	1	· · SEAL, U-CUP		
6	R4241228	1	· · SEAL, U-CUP		6/6/07
7	R4241223	1	· · SEAL, ROD BUFFER - 7"		
8	R4273312	1	· · GLAND, PACKING		1/11/12
9	R4241234	1	· · RING, BACK-UP		1/11/12
10	R4246340	1	· · O-RING, 1/4" X 8-1/2" - BUNA N		
11	R4271210	1	· · RETAINER PLATE		1/11/12
12	R4257110	8	· · CAPSCREW, 5/8"-11 X 3-1/2" - SOCKET HD.		1/11/12
13	R4246350	17	· · CAPSCREW, 1"-8 X 4-1/2" - SOCKET HD.		
14	R4246345	17	· · FLATWASHER, 1" I.D. X 2" O.D. X 1/18" - CONICAL		
15	R4246362	1	· · HEAD, FRONT		
16	R4246348	1	· · RING, BACK-UP		
17	R4268028	1	· · SEAL, QUAD RING		1/11/12
18	R4234104	2	· · RING, BACK-UP		1/11/12
19	R4246342	1	· · O-RING, 1/4" X 7" - BUNA N		
20	R4246363	1	· · PISTON		
21	R4246384	8	· · FLATWASHER, 2" X 1-5/16"		10/20/06
22	R4246349	8	· · CAPSCREW, 1-1/4"-7 X 6-1/2" - SOCKET HD.		
23	R4211325	2	· · RING, WEAR		1/11/12
24	R4130550	1	· · SEAL, PISTON - NITRILE		1/11/12
25	R4246360	1	· · TUBE STRUCTURE		
			NOTE:		
	R4246388	REF	· SEAL KIT, INCLUDES ITEMS 4-7, 9, 10, 16-19, 23 & 24.		
	R4252714	REF	· SEAL KIT, .01 OVERSIZE		1/11/12
	R4252715	REF	· SEAL KIT, .02 OVERSIZE		11/13/13
	R4252716	REF	· SEAL KIT, .03 OVERSIZE		11/13/13
		REF	BUCKET CYLINDER ASSEMBLY (R424100809)		1/11/12

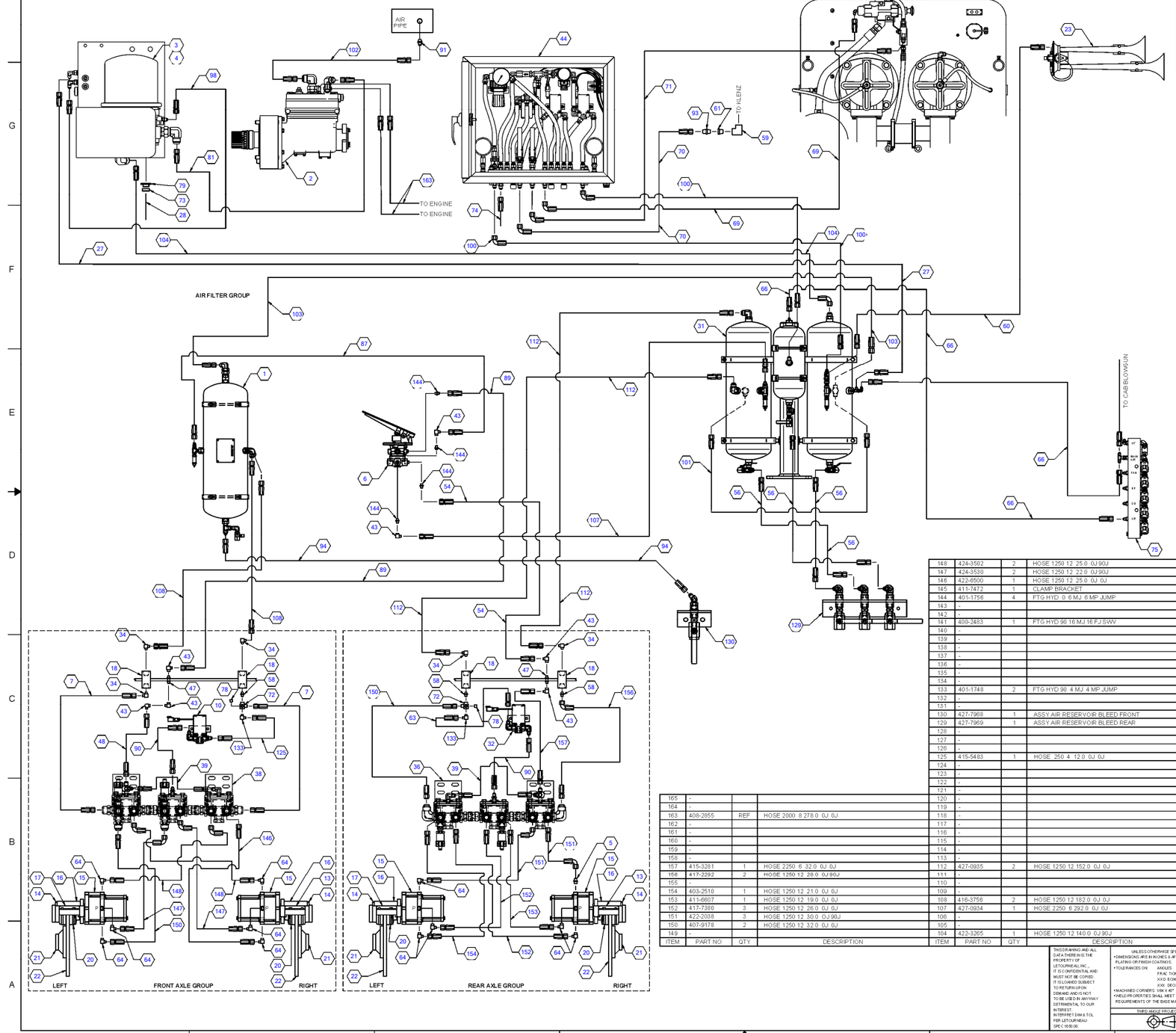
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR SYSTEM



REVISIONS

ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASED	NL12-1801	12-14-11	KMD	AY	AY
	01	ITEM 1 WAS 4270895,IT 6 WAS 4002175,IT 10 WAS					
	01	4261177,IT 23 WAS 4213818,IT 36 WAS 4013787,					
	01	IT 38 WAS 4256383,IT 129 WAS 4189287,					
	01	IT 130 WAS 4261747,DELETE IT 8,11,12,19,					
	01	24,,25,,26,29,30,33,40,41,42,45,49,50,51,52,75,82&					
	01	105,106,,109,,113,115,117,122,126,,127,,128,,181,					
	01	132,,134,,135,,140,,142,,143,,149,155,160,162,,164,					
	01	165,ADD IT 32,,146,,147,,153,QTY CHGS IT 43(6TO7),					
	01	IT 90(3TO2),IT 58(9TO3),IT 133(5TO2),IT 141(3TO1)					
	01	CHG GRAPHICS	NL12-1849	8-14-12	KMD	AY	AY
	02	IT 10 WAS 4272970; ADD IT 75, MRS 1845	-1533&MD	3-8-15	BD		

ITEM	PART NO	QTY	DESCRIPTION
103	427-0936	1	HOSE 1250 12 284.0 0J 0J
102	421-3887	1	HOSE 1000 16 45.0 0J 0J
101	417-7380	1	HOSE 1250 12 26.0 0J 0J
100	411-6472	2	HOSE 2000 8 190.0 0J 90J
99	-		
98	698-9418	1	HOSE 2750 4 34.0 0J 0J
97	-		
96	-		
95	-		
94	408-9126	1	HOSE 2750 4 70.0 0J 0J
93	404-0558	1	FTG HYD 0 8 MJ 12 MP JUMP
92	-		
91	400-2424	1	ADAPTER STRAIGHT 1 MJ X 1 MP
90	415-5482	2	HOSE 250 4 10.0 0J 0J
89	415-3285	1	HOSE 2250 8 334.0 0J 0J
88	-		
87	409-3109	1	HOSE 2250 8 222.0 0J 0J
86	425-6308	1	FTG HYD 0 4 MP 12 MP
85	425-6310	1	FTG HYD 0 8 MP 12 MP
84	415-1426	1	HOSE 1000 16 31.0 0J 0J
83	401-3788	1	PIPE RED 500 250 BSH 6000
82	-		
81	426-1746	1	HOSE 1200 12 120.0 0J 0J SS
80	-		
79	425-8491	1	EXHAUST COVER
78	027-2969	2	PIPE PLG 250 CS HX
77	-		
76	-		
75	427-5726	REF	ASSY TRANSDUCER REAR FRAME
74	421-3975	1	HOSE 250 4 200.0 0J 0J
73	071-1253	1	CLAMP HOSE WORM DR 31 1.75
72	424-4689	2	FTG HYD 90 12 MJ 12 FJ MOD
71	427-0933	1	HOSE 2000 8 286.0 0J 90J
70	421-3508	1	HOSE 2000 8 136.0 0J 90J
69	427-0932	1	HOSE 2750 4 306.0 0J 90J
68	-		
67	-		
66	403-4924	2	HOSE 2750 4 80.0 0J 0J
65	-		
64	408-1386	12	FTG HYD 90 12 MJ 10 MO
63	403-4937	1	HOSE 2750 4 20.0 0J 0J
62	-		
61	419-3350	1	BUSHING, REDUCING, 1 X 3/4
60	427-0931	1	HOSE 2750 4 400.0 0J 0J
59	021-3417	1	PIPE ELB 1.000 90
58	400-2422	3	FTG HYD 0 12 MJ 12 MP
57	-		
56	424-3961	3	HOSE 2750 4 152.0 0J 0J
55	-		
54	427-0930	1	HOSE 2250 6 406.0 0J 0J
53	008-8402	4	PLUG 3/8 NPT
52	-		
51	-		
50	-		
49	-		
48	924-2071	1	HOSE 2250 6 28.0 0J 0J
47	405-1616	2	STRAIGHT 3/8MJX3/8MJ BULKHEAD
46	-		
45	-		
44	427-1109	1	AIR BOX
43	400-2478	7	FTG HYD 90 6 MJ 6 FJ SWVL
42	-		
41	-		
40	-		
39	406-9124	2	HOSE 2250 6 14.0 0J 0J
38	427-3465	1	ASSY RELAY VALVE L18/2350 FXL
37	052-7116	1	ADAPTER STRAIGHT 3/8 MJ X 1/4 MP
36	427-3473	1	ASSY RELAY VALVE L18/2350 RXL
35	403-2316	1	TEE 1/2
34	400-2441	5	FTG HYD 90 12 MJ 12 MP
33	-		
32	427-7971	1	ASSY AIR SOLENOID REAR
31	427-3420	1	ASSY AIR TANK STAND
30	-		
29	-		
28	425-8493	1	EXHAUST HOSE
27	403-2077	1	HOSE 2750 4 168.0 0J 0J
26	-		
25	-		
24	-		
23	427-0891	1	KIT AIR HORN
22	424-8784	REF	DISC 22 OD X 1 LARGE BRAKE
21	423-4511	REF	HUB BRAKE B40
20	424-0108	REF	CARRIER AND LINING ASSEMBLY
19	-		
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	424-0105	REF	MOUNT CALIPER
13	424-0103	REF	TORQUE TUBE LEFT MACHINED
12	-		
11	-		
10	427-7970	1	ASSY AIR SOLENOID FRONT
9	418-6237	1	HOSE 2750 4 160.0 0J 0J
8	-		
7	407-8315	3	HOSE 1250 12 30.0 0J 0J
6	427-4390	1	ASSY DUAL BRAKE VALVE
5	403-1412	1	FTG HYD 0 10 MO 12 MJ
4	425-8482	REF	DESICCANT CARTRIDGE (SERVICE PART)
3	426-4801	1	DRYER AIR
2	426-1543	1	COMPRESSOR
1	427-7972	1	ASSY AIR RESERVOIR FRONT
ITEM	PART NO	QTY	DESCRIPTION

ITEM	PART NO	QTY	DESCRIPTION
165	-		
164	-		
163	408-2855	REF	HOSE 2000 8 278.0 0J 0J
162	-		
161	-		
160	-		
159	-		
158	-		
157	415-3281	1	HOSE 2250 6 32.0 0J 0J
156	417-2292	2	HOSE 1250 12 26.0 0J 90J
155	-		
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	3	HOSE 1250 12 26.0 0J 0J
151	422-2038	3	HOSE 1250 12 30.0 0J 90J
150	407-9178	2	HOSE 1250 12 32.0 0J 0J
149	-		

ITEM	PART NO	QTY	DESCRIPTION
148	424-3502	2	HOSE 1250 12 25.0 0J 90J
147	424-3530	2	HOSE 1250 12 22.0 0J 90J
146	422-6500	1	HOSE 1250 12 25.0 0J 0J
145	411-7472	1	CLAMP BRACKET
144	401-1756	4	FTG HYD 0 6 MJ 6 MP JUMP
143	-		
142	-		
141	400-2483	1	FTG HYD 90 16 MJ 16 FJ SWV
140	-		
139	-		
138	-		
137	-		
136	-		
135	-		
134	-		
133	401-1748	2	FTG HYD 90 4 MJ 4 MP JUMP
132	-		
131	-		
130	427-7968	1	ASSY AIR RESERVOIR BLEED FRONT
129	427-7969	1	ASSY AIR RESERVOIR BLEED REAR
128	-		
127	-		
126	-		
125	415-5483	1	HOSE 250 4 12.0 0J 0J
124	-		
123	-		
122	-		
121	-		
120	-		
119	-		
118	-		
117	-		
116	-		
115	-		
114	-		
113	-		
112	427-0935	2	HOSE 1250 12 152.0 0J 0J
111	-		
110	-		
109	-		
108	416-3756	2	HOSE 1250 12 182.0 0J 0J
107	427-0934	1	HOSE 2250 6 292.0 0J 0J
106	-		
105	-		
104	422-3265	1	HOSE 1250 12 140.0 0J 90J

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UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°, FRAC TICKS ±1/16, XXD 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: 427-0978/427-0979

LeTourneau, Inc.

BRAKE CONTROLS L-18502210&UP LARGE BRAKE

DWN	M. DUKE	12-14-2011
CHK	AY	12-14-11
ENGR		
PROD ENGR	AY	12-14-11
PROJ APPROVAL		
MATL		

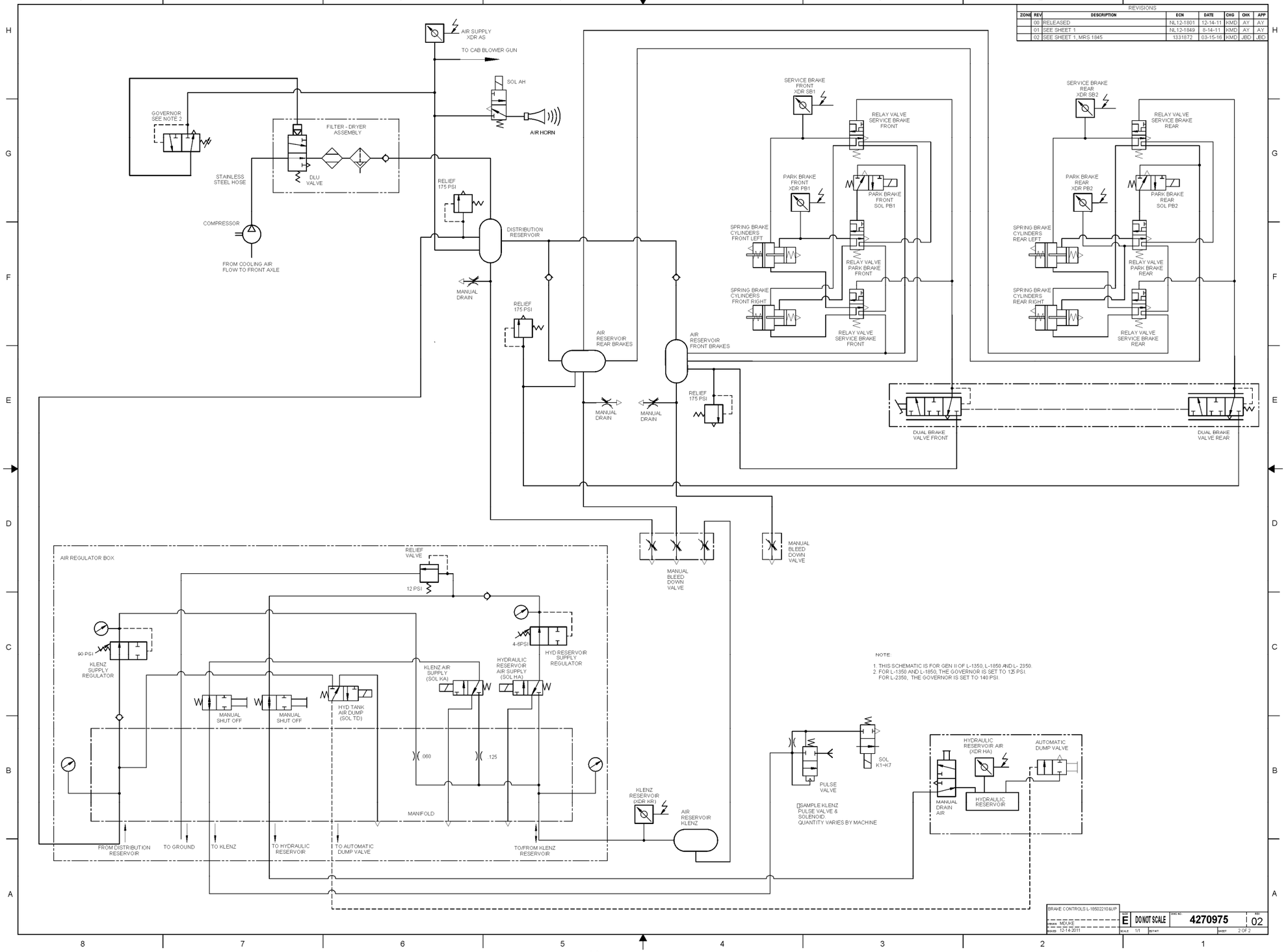
SIZE E | DO NOT SCALE | DWG NO 4270975 | REV 02 | SCALE 1/1 | WT/PT | SHEET 1 OF 2

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AIR SYSTEM

ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASED	NL12-1801	12-14-11	KMD	AY	AY
	01	SEE SHEET 1	NL12-1849	8-14-11	KMD	AY	AY
	02	SEE SHEET 1, MRS 1845	1331872	03-15-16	KMD	JBD	JBD



BRAKE CONTROLS L-1850/2100 &UP

DRAWN MDUKE

DATE 12-14-2011

SIZE E | DO NOT SCALE | DWG NO. 4270975 | REV 02

SCALE 1/1 | 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.					
	R4270979		AIR SYSTEM		1/19/17
1	R4277972	1	· FRONT AIR RESERVOIR ASSEMBLY (PAGE 8.47-8.47B)		3/7/16
2	R4261543	1	· COMPRESSOR, AIR - 922, 31.6 CFM		
	R4270858	1	· · VALVE, SAFETY - 250 PSI, 16 MM X 1.5		
	R4270964	1	· AIR DRYER AND GOVERNOR ASSEMBLY		1/19/17
3	R4267944	1	· · GOVERNOR MODULE ASSEMBLY		1/19/17
	R4267943	1	· · · GOVERNOR		1/19/17
	R4265902	3	· · · ADAPTER, 1/8" FP X 10 MMO		1/19/17
4	R4264801	1	· · DRYER, AIR		
	R4258482	1	· · · DESICCANT CARTRIDGE		
	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		
	R4258493	1	· HOSE, EXHAUST - 1" I.D. X 60"		
	R0711253	1	· CLAMP, HOSE - WORM, 1-3/4"		
5	R4021412	1	· ADAPTER, #10 MO X #12 MJ		3/7/16
6	R4274390	1	· VALVE, BRAKE		
	R4002175	1	· · VALVE, BRAKE		
	R4124937	1	· · · REPAIR KIT		
7	R4078315	3	· HOSE ASSEMBLY, #12 X 30"		
8	N.P.N.		· NOT USED		3/7/16
9	R4186237	1	· HOSE ASSEMBLY, #4 X 160"		
10	R4277970	1	· FRONT AIR SOLENOID ASSEMBLY		3/7/16
	R4261177		· · SOLENOID KIT, AIR - 24V		
	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
	R4016785		· · ADAPTER, 1/4" MP X #4 MJ		
	R4162499		· · VENT, BREATHER - 1/4"-18		
	R4011748		· · ELBOW, 1/4" MP X 90 deg. X #4 MJ		
11	N.P.N.		· NOT USED		3/7/16
12	N.P.N.		· NOT USED		3/7/16
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	N.P.N.		· NOT USED		3/7/16
20	R4240108	REF	· BRAKE PAD		
21	R4234511	REF	· HUB, BRAKE - B40		
22	R4248784	REF	· BRAKE DISC, 22" O.D. X 1"		
23	R4213818	1	· AIR HORN KIT (PAGE 8.52-8.52A)		3/7/16
24	N.P.N.		· NOT USED		3/7/16

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
25	N.P.N.		· NOT USED		3/7/16
26	N.P.N.		· NOT USED		3/7/16
27	R4032077	1	· HOSE ASSEMBLY, #4 X 168"		
28	R4258493	1	· HOSE, EXHAUST - 1" I.D. X 60"		
29	N.P.N.		· NOT USED		3/7/16
30	N.P.N.		· NOT USED		3/7/16
31	R4273420	1	· AIR TANK STAND ASSEMBLY (PAGE 8.47-8.47A)		
32	R4277971	1	· REAR AIR SOLENOID ASSEMBLY		3/7/16
	R4261177	1	· · SOLENOID KIT, AIR - 24V		3/7/16
	R4039803	1	· · · SOLENOID, AIR - 24V		3/7/16
	R4255415	1	· · · RECEPTACLE, DT04-2P		3/7/16
	R4255416	1	· · · WEDGE, W2P		3/7/16
	R4185763	1	· · · PIN, CONTACT - 16		3/7/16
	R4162499	1	· · VENT, BREATHER - 1/4"-18		3/7/16
	R4011748	2	· · ELBOW, 1/4" MP X 90 deg. X #4 MJ		3/7/16
33	N.P.N.		· NOT USED		3/7/16
34	R4002441	5	· ELBOW, 3/4" MP X 90 deg. X #12 MJ		
35	R4032316	1	· TEE, 1/2" FP		
36	R4273473	1	· REAR RELAY VALVE ASSEMBLY (PAGE 8.54-8.54A)		3/7/16
37	R0527116	1	· ADAPTER, 1/4" MP X #6 MJ		
38	R4273465	1	· FRONT RELAY VALVE ASSEMBLY (PAGE 8.53-8.53A)		3/7/16
39	R4069124	2	· HOSE ASSEMBLY, #6 X 14"		
40	N.P.N.		· NOT USED		3/7/16
41	N.P.N.		· NOT USED		3/7/16
42	N.P.N.		· NOT USED		3/7/16
43	R4002478	7	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
44	R4271109	1	· AIR BOX ASSEMBLY (PAGE 8.46-8.46A)		
45	N.P.N.		· NOT USED		3/7/16
46	N.P.N.		· NOT USED		
47	R4051616	2	· ADAPTER, #6 MJ X #6 MJ - BULKHEAD		
48	R9242071	1	· HOSE ASSEMBLY, #6 X 28"		
49	N.P.N.		· NOT USED		3/7/16
50	N.P.N.		· NOT USED		3/7/16
51	N.P.N.		· NOT USED		3/7/16
52	N.P.N.		· NOT USED		3/7/16
53	R0088402	4	· PLUG, PIPE - 3/8", HEX CSK.		
54	R4270930	1	· HOSE ASSEMBLY, #6 X 406"		
55	N.P.N.		· NOT USED		
56	R4243961	3	· HOSE ASSEMBLY, #4 X 152"		
57	N.P.N.		· NOT USED		
58	R4002422	3	· ADAPTER, 3/4" MP X #12 MJ		
59	R0213417	1	· ELBOW, 1" FP X 90 deg. X 1" FP		
60	R4270931	1	· HOSE ASSEMBLY, #4 X 400"		
61	R4193350	1	· BUSHING, 3/4" FP X 1" MP		
62	N.P.N.		· NOT USED		
63	R4034937	1	· HOSE ASSEMBLY, #4 X 20"		
64	R4081386	12	· ELBOW, #10 MO X 90 deg. X #12 MJ		
65	N.P.N.		· NOT USED		3/7/16
66	R4034924	2	· HOSE ASSEMBLY, #4 X 80"		
67	N.P.N.		· NOT USED		
68	N.P.N.		· NOT USED		3/7/16
69	R4270932	1	· HOSE ASSEMBLY, #4 X 306"		
70	R4213508	1	· HOSE ASSEMBLY, #8 X 136"		
71	R4270933	1	· HOSE ASSEMBLY, #8 X 286"		
72	R4244689	2	· ELBOW, #12 FJ X 90 deg. X #12 MJ		
73	R0711253	1	· CLAMP, HOSE - WORM, 1-3/4"		
74	R4213975	1	· HOSE ASSEMBLY, #4 X 200"		

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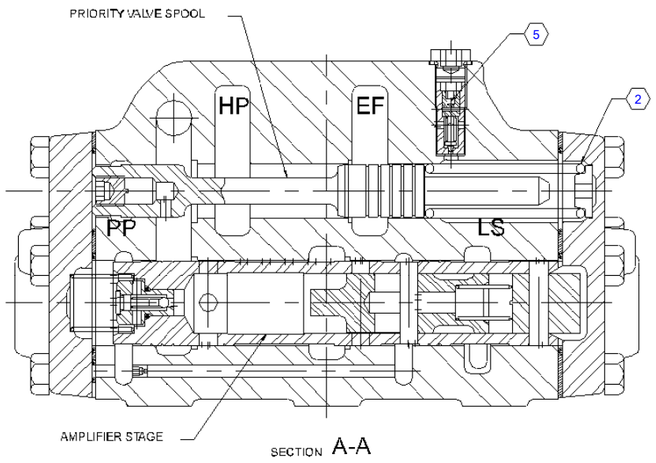
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
75	R4275726	REF	· REAR FRAME TRANSDUCER ASSEMLBY (PAGE 8.55-8.55A)		3/7/16
76	N.P.N.		· NOT USED		
77	N.P.N.		· NOT USED		
78	R0272969	2	· PLUG, PIPE - 1/4", HEX CSK.		
79	R4258491	1	· COVER, EXHAUST		
80	N.P.N.		· NOT USED		
81	R4261746	1	· HOSE ASSEMBLY, #12 X 120" - CSS		
82	N.P.N.		· NOT USED		3/7/16
83	R4013788	1	· BUSHING, 1/4" FP X 1/2" MP		
84	R4151426	1	· HOSE ASSEMBLY, #16 X 31"		
85	R4256310	1	· ADAPTER, 1/2" MP X 3/4" MP		
86	R4256308	1	· ADAPTER, 1/4" MP X 3/4" MP		
87	R4093109	1	· HOSE ASSEMBLY, #6 X 222"		
88	N.P.N.		· NOT USED		
89	R4153285	1	· HOSE ASSEMBLY, #6 X 334"		
90	R4155482	2	· HOSE ASSEMBLY, #4 X 10"		
91	R4002424	1	· ADAPTER, 1" MP X #16 MJ		
92	N.P.N.		· NOT USED		
93	R4040558	1	· ADAPTER, 3/4" MP X #8 MJ		
94	R4089126	1	· HOSE ASSEMBLY, #4 X 70"		
95	N.P.N.		· NOT USED		
96	N.P.N.		· NOT USED		
97	N.P.N.		· NOT USED		
98	R6989418	1	· HOSE ASSEMBLY, #4 X 34"		
99	N.P.N.		· NOT USED		3/7/16
100	R4116472	2	· HOSE ASSEMBLY, #8 X 190"		
101	R4177380	1	· HOSE ASSEMBLY, #12 X 26"		
102	R4213887	1	· HOSE ASSEMBLY, #16 X 45"		
103	R4270936	1	· HOSE ASSEMBLY, #12 X 284"		
104	R4223265	1	· HOSE ASSEMBLY, #12 X 140"		
105	N.P.N.		· NOT USED		3/7/16
106	N.P.N.		· NOT USED		3/7/16
107	R4270934	1	· HOSE ASSEMBLY, #6 X 292"		
108	R4163756	2	· HOSE ASSEMBLY, #12 X 182"		
109	N.P.N.		· NOT USED		3/7/16
110	N.P.N.		· NOT USED		
111	N.P.N.		· NOT USED		
112	R4270935	2	· HOSE ASSEMBLY, #12 X 152"		
113	N.P.N.		· NOT USED		3/7/16
114	N.P.N.		· NOT USED		
115	N.P.N.		· NOT USED		3/7/16
116	N.P.N.		· NOT USED		
117	N.P.N.		· NOT USED		3/7/16
118	N.P.N.		· NOT USED		
119	N.P.N.		· NOT USED		
120	N.P.N.		· NOT USED		
121	N.P.N.		· NOT USED		
122	N.P.N.		· NOT USED		3/7/16
123	N.P.N.		· NOT USED		
124	N.P.N.		· NOT USED		
125	R4155483	1	· HOSE ASSEMBLY, #4 X 12"		
126	N.P.N.		· NOT USED		3/7/16
127	N.P.N.		· NOT USED		3/7/16
128	N.P.N.		· NOT USED		3/7/16
129	R4277969	1	· REAR AIR RESERVOIR BLEED ASSEMBLY		3/7/16
	R4189287	1	· · MOUNT STRUCTURE, AIR BLEED VALVE		3/7/16
	R4032312	3	· · NIPPLE, PIPE - 3/8", HEX		3/7/16

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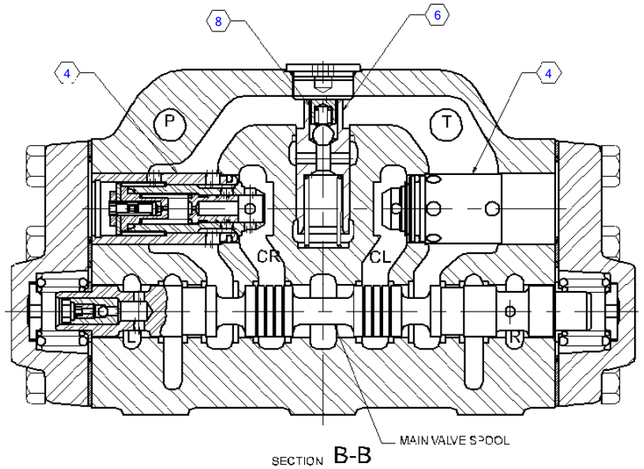
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4152842	3	· · VALVE, BALL - 3/8"		3/7/16
	R6953864	3	· · ELBOW, 3/8" MP X 90 deg. X #4 MJ		3/7/16
130	R4277968	1	· FRONT AIR RESERVOIR BLEED ASSEMBLY		3/7/16
	R4261747	1	· · DRAIN MOUNT STRUCTURE		3/7/16
	R4013787	1	· · BUSHING, 1/4" FP X 3/8" MP		3/7/16
	R4193354	1	· · ELBOW, 1/4" MP X 45 deg. X #4 MJ		3/7/16
	R4032312	1	· · NIPPLE, PIPE - 3/8", HEX		3/7/16
	R4152842	1	· · VALVE, BALL - 3/8"		3/7/16
131	N.P.N.		· NOT USED		3/7/16
132	N.P.N.		· NOT USED		3/7/16
133	R4011748	2	· ELBOW, 1/4" MP X 90 deg. X #4 MJ		
134	N.P.N.		· NOT USED		3/7/16
135	N.P.N.		· NOT USED		
136	N.P.N.		· NOT USED		
137	N.P.N.		· NOT USED		
138	N.P.N.		· NOT USED		3/7/16
139	N.P.N.		· NOT USED		
140	N.P.N.		· NOT USED		3/7/16
141	R4002483	1	· ELBOW, #16 FJ X 90 deg. X #16 MJ - SWIVEL		
142	N.P.N.		· NOT USED		3/7/16
143	N.P.N.		· NOT USED		3/7/16
144	R4011756	4	· ADAPTER, 3/8" MP X #6 MJ		
145	R4117472	1	· BRACKET, AIR RESERVOIR		
146	R4226500	1	· HOSE ASSEMBLY, #12 X 25"		3/7/16
147	R4243530	2	· HOSE ASSEMBLY, #12 X 22"		3/7/16
148	R4243502	2	· HOSE ASSEMBLY, #12 X 25"		
149	N.P.N.		· NOT USED		3/7/16
150	R4079178	2	· HOSE ASSEMBLY, #12 X 32"		
151	R4222038	3	· HOSE ASSEMBLY, #12 X 30"		
152	R4177380	3	· HOSE ASSEMBLY, #12 X 26"		
153	R4116607	1	· HOSE ASSEMBLY, #12 X 19"		3/7/16
154	R4032510	1	· HOSE ASSEMBLY, #12 X 21"		
155	N.P.N.		· NOT USED		3/7/16
156	R4172292	2	· HOSE ASSEMBLY, #12 X 28"		
157	R4153281	1	· HOSE ASSEMBLY, #6 X 32"		
158	N.P.N.		· NOT USED		3/7/16
159	N.P.N.		· NOT USED		
160	N.P.N.		· NOT USED		3/7/16
161	N.P.N.		· NOT USED		
162	N.P.N.		· NOT USED		3/7/16
163	R4082855	REF	· HOSE ASSEMBLY, #8 X 278"		
164	N.P.N.		· NOT USED		3/7/16
165	N.P.N.		· NOT USED		3/7/16
		REF	DIAGRAM AND SCHEMATIC, BRAKE CONTROLS (R427097502)		1/19/17

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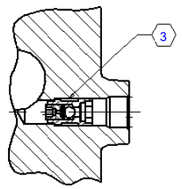
DANFOSS STEERING VALVE

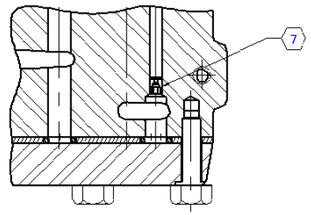


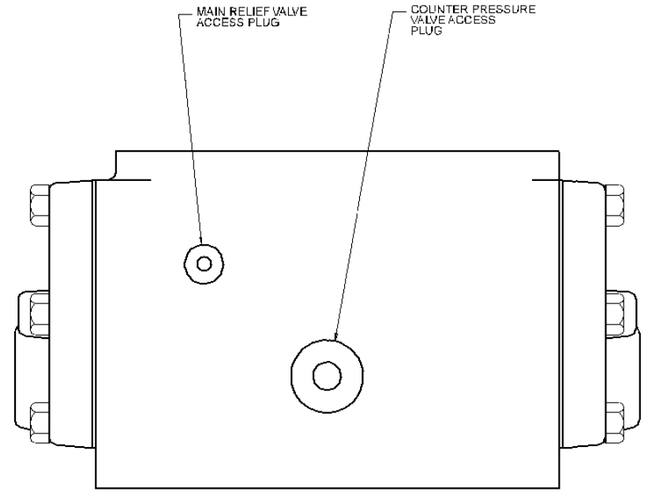
SECTION A-A



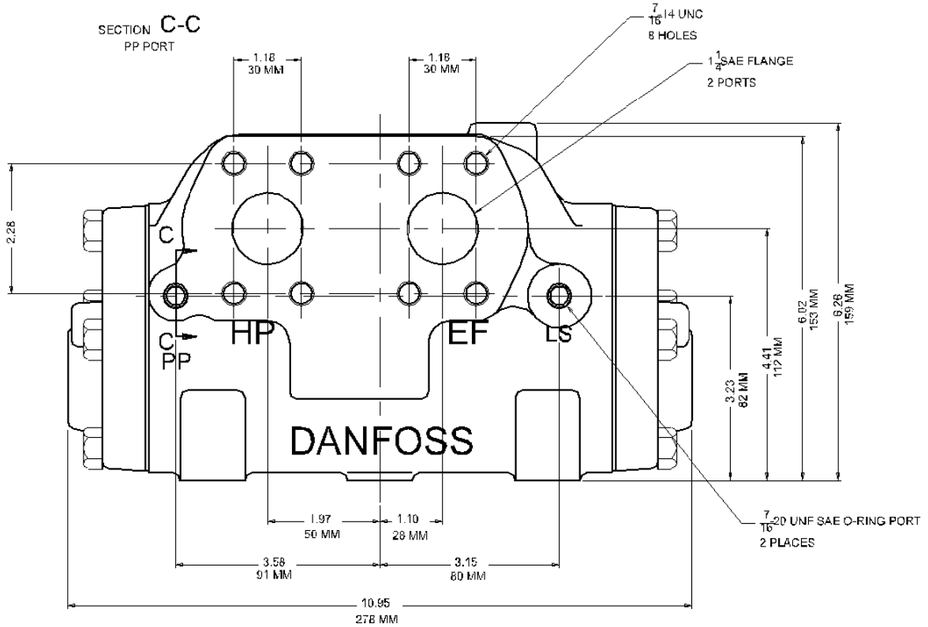
SECTION B-B



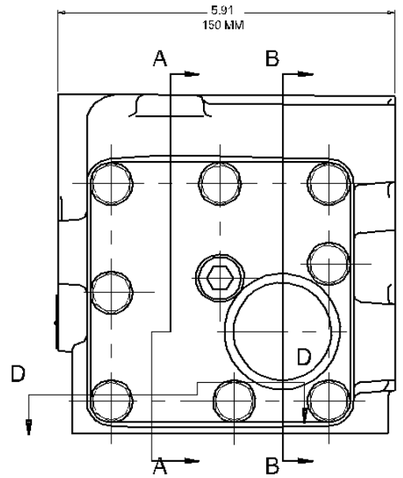


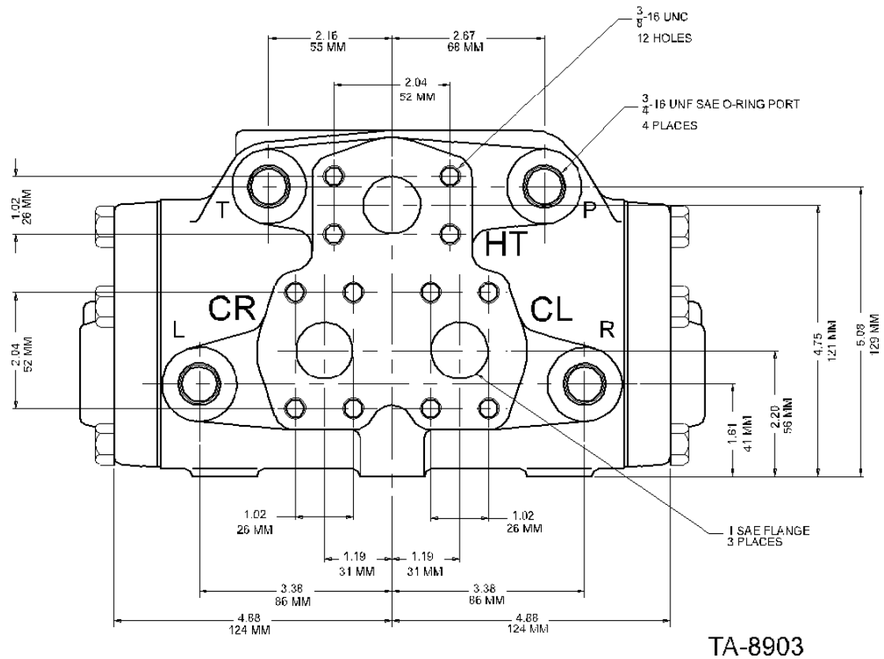


SECTION C-C
PP PORT



SECTION D-D
LS PORT





TA-8903

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4188986	REF	DANFOSS STEERING VALVE		7/22/14
	R4270856	1	DANFOSS STEERING VALVE - SEE NOTE 1		3/17/11
			NOTE 1:		3/17/11
			STEERING VALVE R4188986 IS REPLACED BY STEERING VALVE R4270856		
			STEERING VALVE R4188986 DOES NOT HAVE PRESET PSI SETTINGS		
			STEERING VALVE R4270856 HAS A MAIN RELIEF VALVE THAT IS PRESET		
			AT 4000 PSI AND A SHOCK AND SUCTION VALVE THAT IS PRESET AT 4000 PSI		7/22/14
1	R4116620	1	· SEAL KIT		
2	R4116639	1	· SPRING, VALVE - PRIORITY		
3	R4116625	1	· VALVE, THROTTLE CHECK		
4	R4248721	REF	· VALVE ASSEMBLY, SHOCK AND SUCTION - SEE NOTE 2		3/17/11
	R4270857	1	· VALVE ASSEMBLY, SHOCK AND SUCTION - 4000 PSI - SEE NOTE 2		7/22/14
			NOTE 2:		3/17/11
			SHOCK AND SUCTION VALVE R4248721 IS REPLACED BY SHOCK AND SUCTION VALVE R4270857		
			SHOCK AND SUCTION VALVE R4248721 DOES NOT HAVE PRESET PSI SETTINGS		
			SHOCK AND SUCTION VALVE R4270857 IS PRESET AT 4000 PSI		7/22/14
5	R4116624	REF	· VALVE ASSEMBLY, MAIN RELIEF - FOR STEERING VALVES MADE BEFORE THE YEAR 2004		3/17/11
	N.P.N.	1	· VALVE ASSEMBLY, MAIN RELIEF - FOR STEERING VALVES MADE BEGINNING IN THE YEAR 2004		3/17/11
6	R4123564	1	· VALVE ASSEMBLY, COUNTER PRESSURE		
7	R4123704	1	· SCREW, ORIFICE		
8	R4123705	1	· PLUG		
	R4219622	REF	DANFOSS TEST BLOCK ASSEMBLY		3/17/11
			THE PROCEDURE TO PRESET YOUR SHOCK AND SUCTION VALVE USING THE DANFOSS TEST BLOCK ASSEMBLY		
			CAN BE FOUND IN THE SERVICE MANUAL.		
		REF	DRAWING, DANFOSS STEERING VALVE (R418898601)		3/17/11

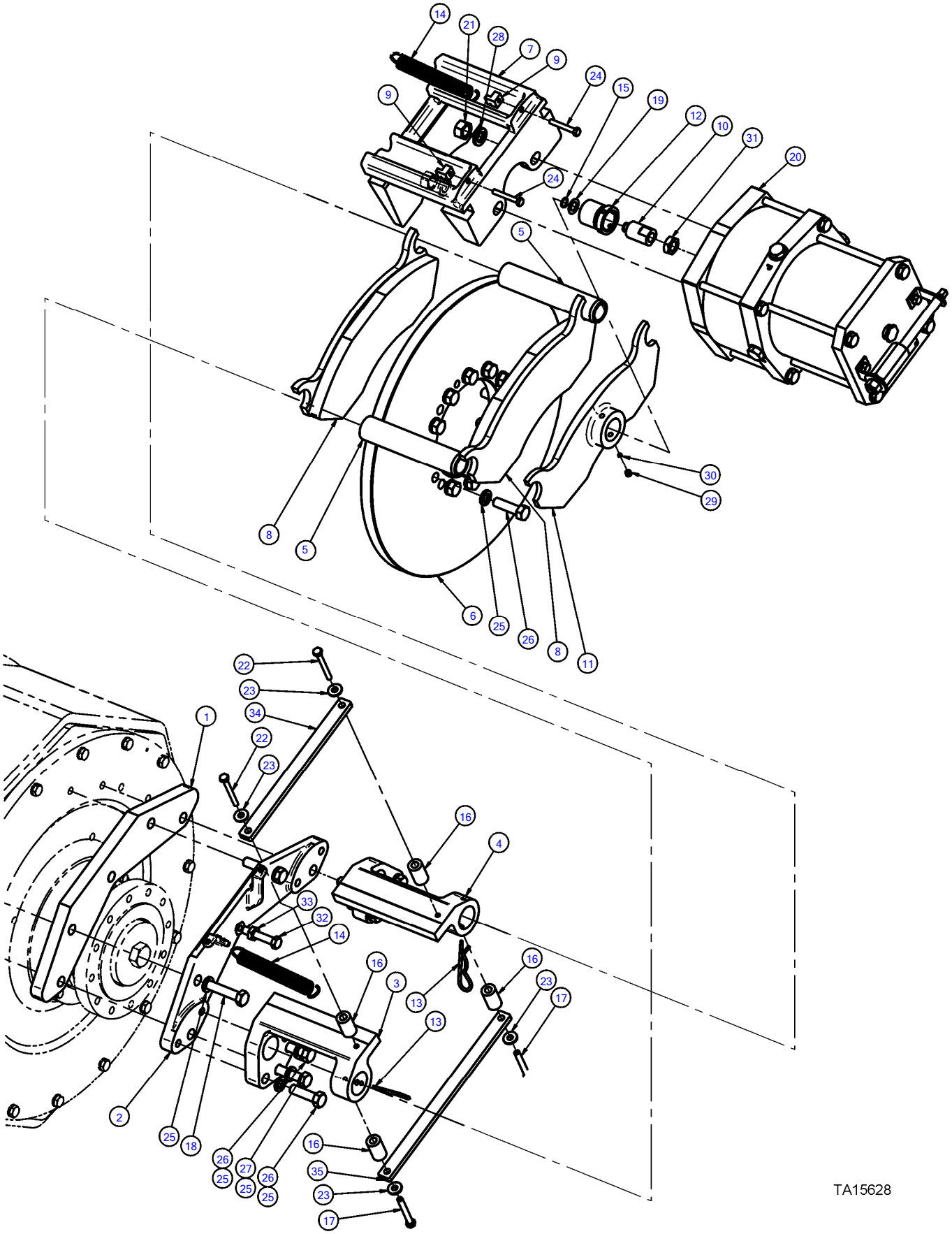
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AIR BRAKE CALIPER ASSEMBLY



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4248971		BRAKE CALIPER ASSEMBLY		6/21/18
1	R4248732	1	· SPACER, CALIPER MOUNT		
2	R4240105	1	· CALIPER MOUNT		
3	R4240101	1	· TORQUE TUBE, R.H.		
4	R4240103	1	· TORQUE TUBE, L.H.		
5	R4240110	2	· PIN, GUIDE		
6	R4248784	1	· BRAKE DISC, 22" O.D. X 1"		
7	R4240102	1	· ACTUATOR MOUNT, BRAKE		
8	R4240108	2	· BRAKE PAD		
9	R4248730	2	· MOUNTING BLOCK, SPRING		
	R4012947	2	· JAMNUT, 5/16"-18		6/21/18
10	R4240111	1	· BOSS, SWIVEL - 3/4"-16		
11	R4240107	1	· CLAMP PLATE, CALIPER		
12	R4241844	1	· SLEEVE, ADJUSTING		
13	R4240104	2	· PIN CLIP, SAFETY		
14	R4240109	2	· SPRING		
15	R0603123	1	· RING, RETAINING - EXTERNAL		
16	R4239307	4	· SPACER		
17	R4009644	2	· BOLT, 3/8"-16 X 2-3/4"		
18	R0021634	2	· BOLT, 5/8"-11 X 3"		
19	R4241845	1	· FLATWASHER, 5/8" X 1-1/16" X 1/16"		
20	R4248969	1	· BRAKE, SPRING - CYLINDER (PAGE 8.21-8.21B)		
21	R0021528	2	· NUT, 3/4"-16		
22	R4009645	2	· BOLT, 3/8"-16 X 3"		
23	R4223102	4	· FLATWASHER, 3/8" I.D. X 1" O.D. X 1/16" - CONICAL		
24	R4248733	2	· BOLT, 5/16"-18 X 2-1/4" - FULL THREAD		
25	R0021541	20	· LOCKWASHER, 5/8"		
26	R0021631	16	· BOLT, 5/8"-11 X 2-1/4"		
27	R0021641	2	· BOLT, 5/8"-11 X 4-1/2"		
28	R0021542	2	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
29	R0186429	1	· SETSCREW, 3/8"-16 X 3/8"		
30	R4102197	1	· INSERT, THREAD LOCKING - 1/4" DIA. X 1/8"		
31	R4256387	1	· JAMNUT, 3/4"-16		1/24/14
32	R4183718	1	· BOLT, 1/2"-13 X 2-3/4" - FULL THREAD		
33	R4013750	1	· JAMNUT, 1/2"-13		
34	R4255597	1	· BAR, RETAINER - SHORT		
35	R4239306	1	· BAR, RETAINER - LONG		
			DRAWING, AIR BRAKE CALIPER ASSEMBLY (R424897100)		

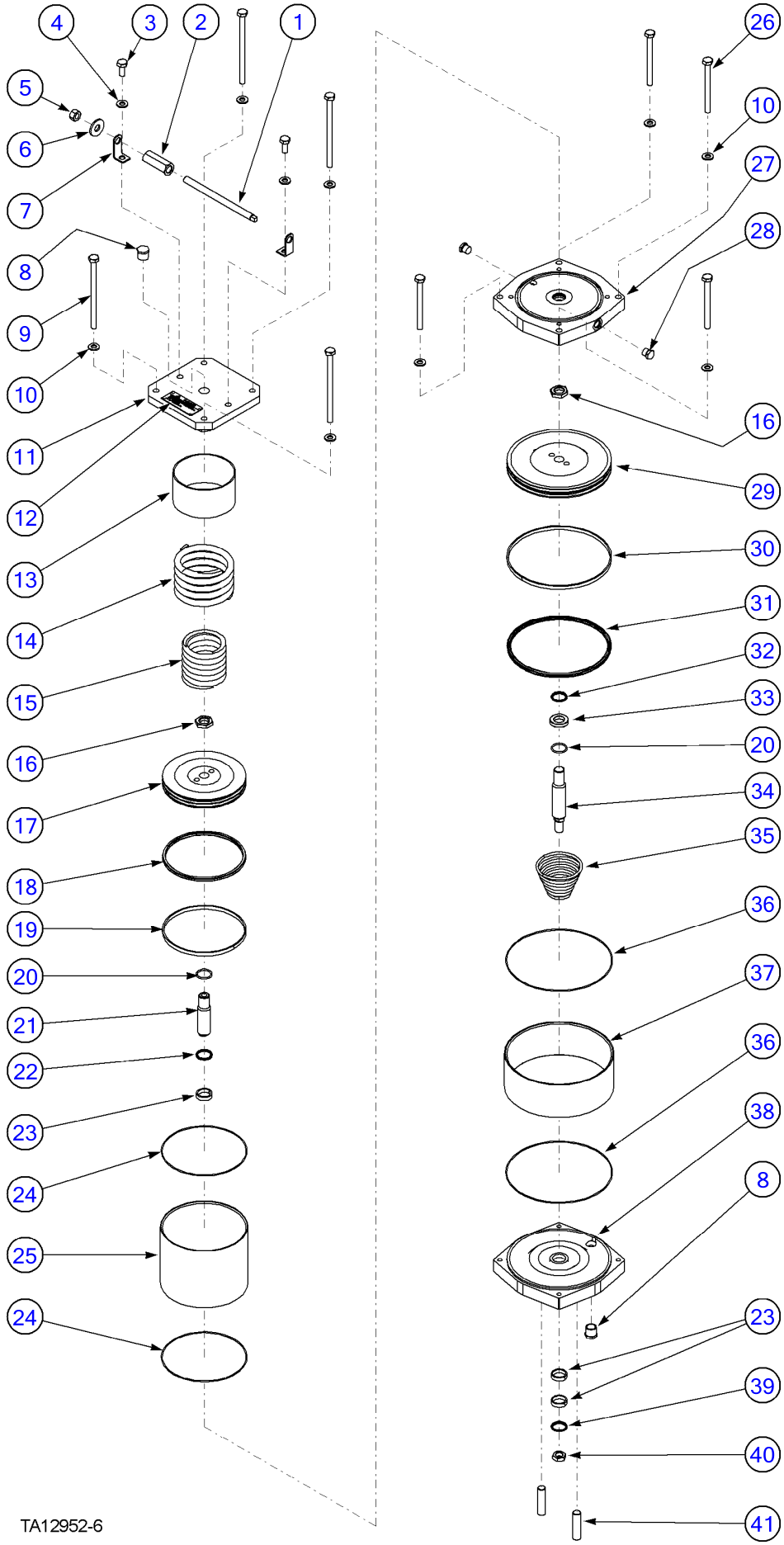
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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		3/15/11
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	R4239179	1	· PLATE, SAFETY - BRAKE SPRING		
	R4265150	REF	· LABEL, SAFETY - BRAKE SPRING - CHINESE		1/18/10
	R4271896	REF	· PLATE, SAFETY - BRAKE SPRING - CHINESE		3/15/11
	R4255464	REF	· PLATE, SAFETY - BRAKE SPRING - PORTUGUESE		3/31/10
	R4255460	REF	· PLATE, SAFETY - BRAKE SPRING - SPANISH		6/7/10
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

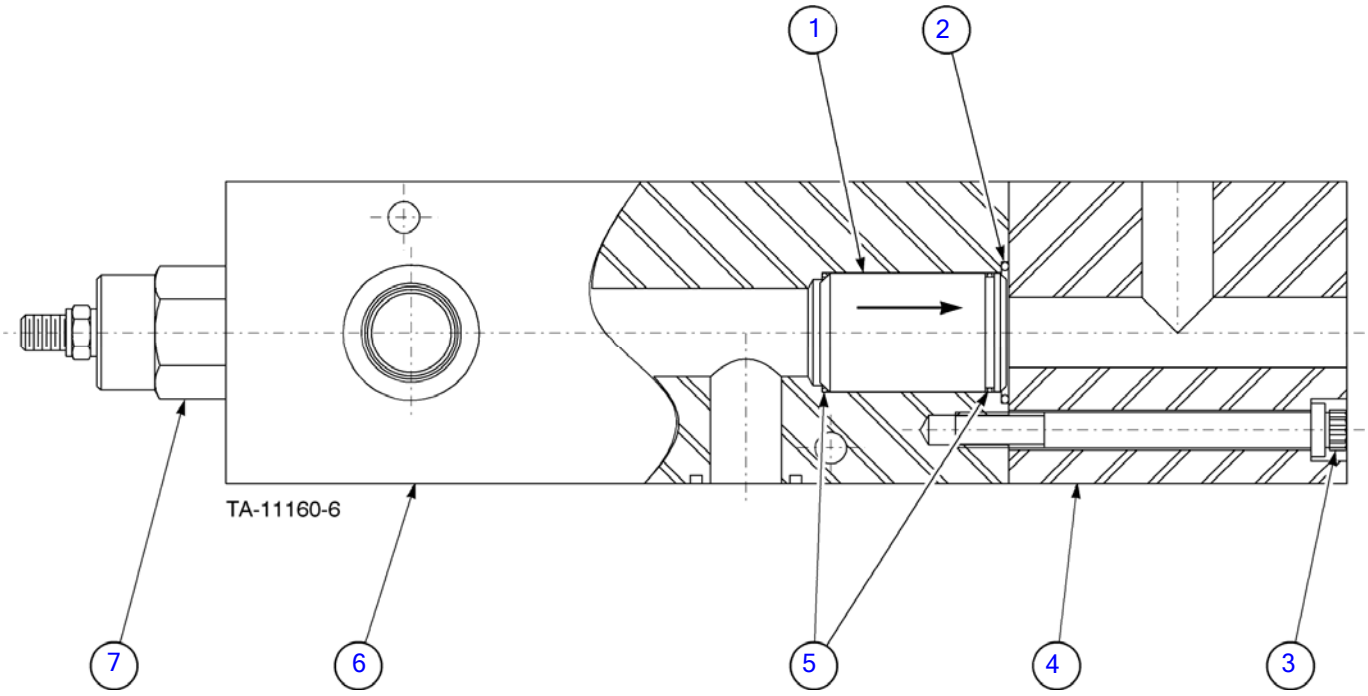
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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)		

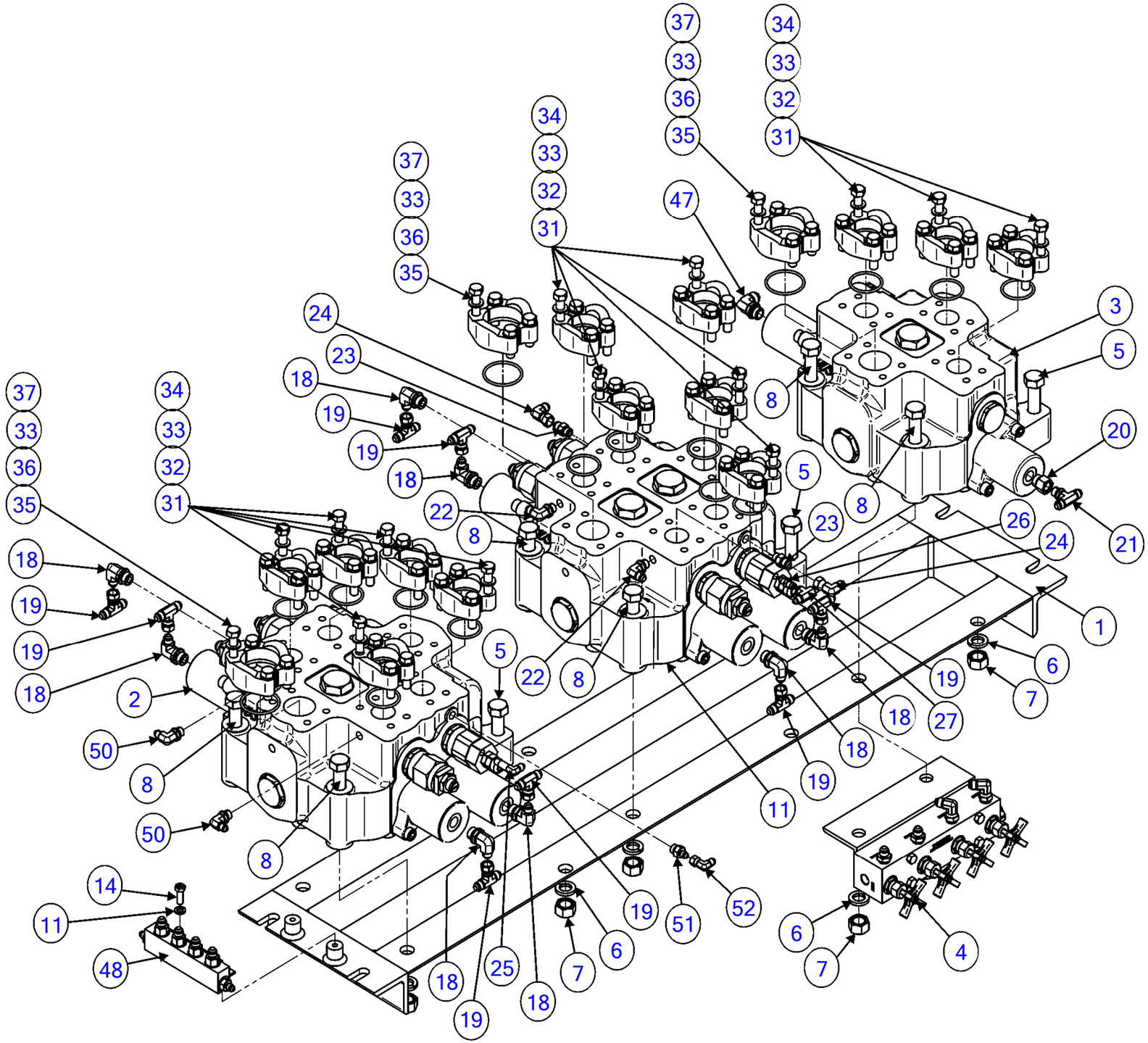
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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MAIN CONTROL VALVES ASSEMBLY



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MAIN CONTROL VALVES ASSEMBLY

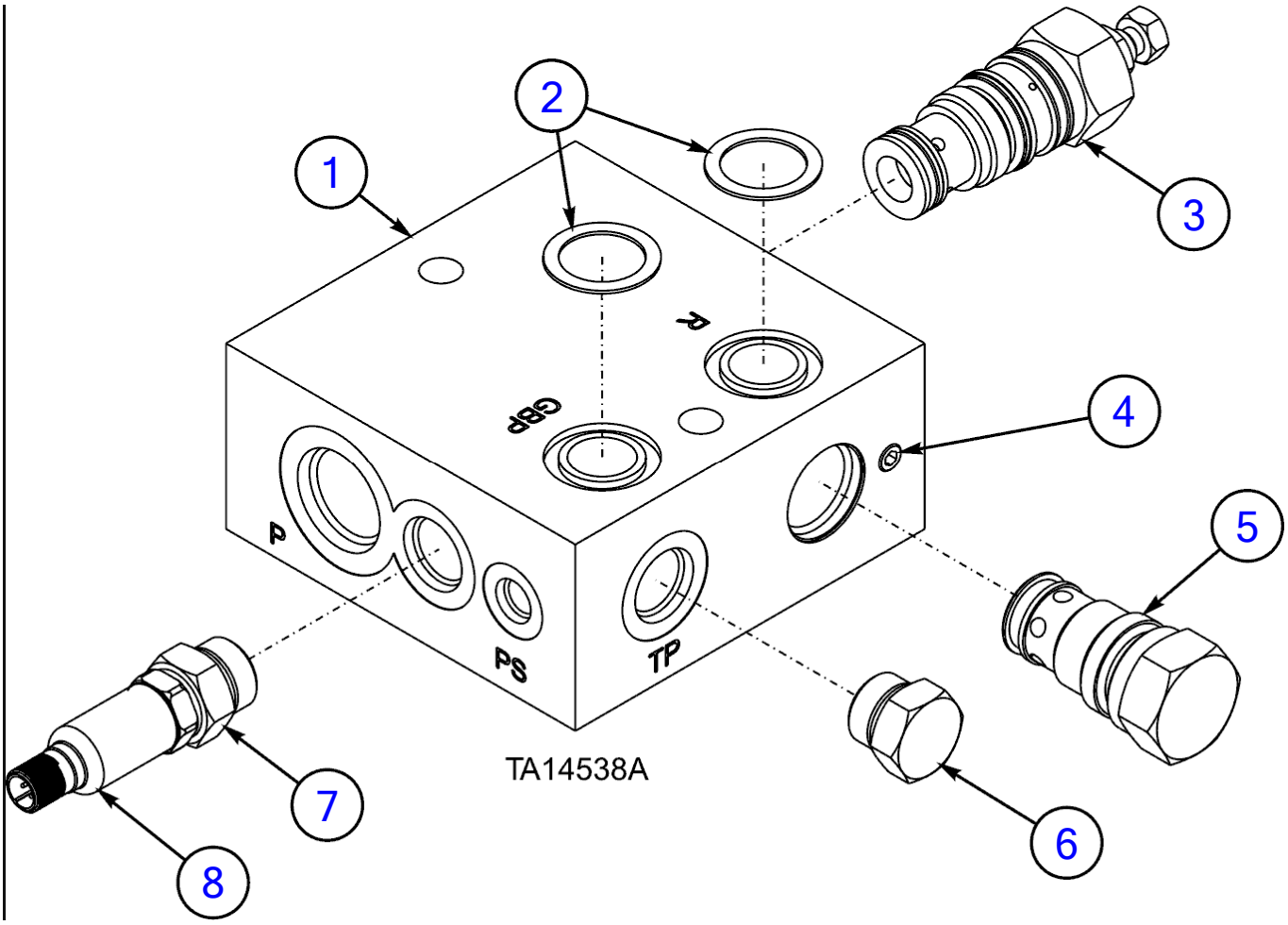
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4261354		MAIN CONTROL VALVES ASSEMBLY		2/9/16
1	R4241493	1	· MOUNT STRUCTURE, MAIN VALVE		
2	R4248685	2	· VALVE, CONTROL - DUAL (PAGE 8.3-8.3A)		
3	R4248686	1	· VALVE, CONTROL - SINGLE (PAGE 8.4-8.4A)		
4	R4270957	1	· VALVE ASSEMBLY, MAIN BLEED		
	R4248840	1	· · VALVE ASSEMBLY, MAIN BLEED		
	R4284602	1	· · · SEAL KIT, BLEED VALVE		2/9/16
	R4284603	4	· · · VALVE, NEEDLE CARTRIDGE		2/9/16
	R4011756	2	· · ADAPTER, 3/8" MP X #6 MJ		
	R4013787	2	· · BUSHING, 1/4" FP X 3/8" MP		
	R4002439	1	· · ELBOW, 3/8" MP X 90 deg. X #8 MJ		
	R4002438	2	· · ELBOW, 1/4" MP X 90 deg. X #6 MJ		
	R4261634	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	9	· LOCKWASHER, 3/4" X 1-1/4" X 3/16"		
7	R0021527	9	· NUT, 3/4"-10		
8	R0021657	6	· BOLT, 3/4"-10 X 5-1/2"		
9	N.P.N.		· NOT USED		
10	N.P.N.		· NOT USED		
11	R0753123	2	· LOCKWASHER, 3/8"		
12	N.P.N.		· NOT USED		
13	N.P.N.		· NOT USED		
14	R0810971	2	· BOLT, 3/8"-16 X 1"		
15	N.P.N.		· NOT USED		
16	N.P.N.		· NOT USED		
17	N.P.N.		· NOT USED		
18	R4017400	8	· ELBOW, #8 MO X 90 deg. X #6 MJ - ADJ.		
19	R4177038	8	· TEE, #6 MJ X #6 FJ		
20	R4103836	1	· REDUCER, #6 FO X #8 MO		
21	R4043032	1	· TEE, #6 MJ X #6 MO X #6 MJ		
22	R4002470	2	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
23	R4002454	2	· ADAPTER, #6 MO X #6 MJ		
24	R4002478	2	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
25	R6947581	1	· ELBOW, 1/8" MP X 90 deg. X #4 MJ X 1-1/2" LONG		
26	R4030297	1	· ADAPTER, 1/8" MP X 1/8" MP		
27	R4261628	1	· TEE, #4 MJ X #4 MJ X 2 FP		
28	N.P.N.		· NOT USED		
29	N.P.N.		· NOT USED		
30	N.P.N.		· NOT USED		
31	R4068358	13	· O-RING, 1-7/8" I.D. - POLYURETHANE		
32	R4186401	26	· FLANGE HALF, 1-1/2"		
33	R4210349	64	· FLATWASHER, 1/2" - HARDENED		
34	R0827222	52	· BOLT, 1/2"-13 X 2"		
35	R4071255	3	· O-RING, 2-1/4" I.D. - POLYURETHANE		
36	R4186402	6	· FLANGE HALF, 2"		
37	R0824790	12	· BOLT, 1/2"-13 X 1-3/4"		
38	N.P.N.		· NOT USED		
39	N.P.N.		· NOT USED		
40	N.P.N.		· NOT USED		
41	N.P.N.		· NOT USED		
42	N.P.N.		· NOT USED		
43	N.P.N.		· NOT USED		
44	N.P.N.		· NOT USED		
45	N.P.N.		· NOT USED		
46	N.P.N.		· NOT USED		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
47	R4002471	1	· ELBOW, #8 MO X 90 deg. X #8 MJ - ADJ.		
48	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"		
50	R4040552	2	· ELBOW, #6 MO X 90 deg. X #4 MJ		
51	R4039499	1	· ADAPTER, #6 MO X #4 MJ		
52	R4116444	1	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
		REF	DRAWING, MAIN VALVES ASSEMBLY (R426135404)		

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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)		

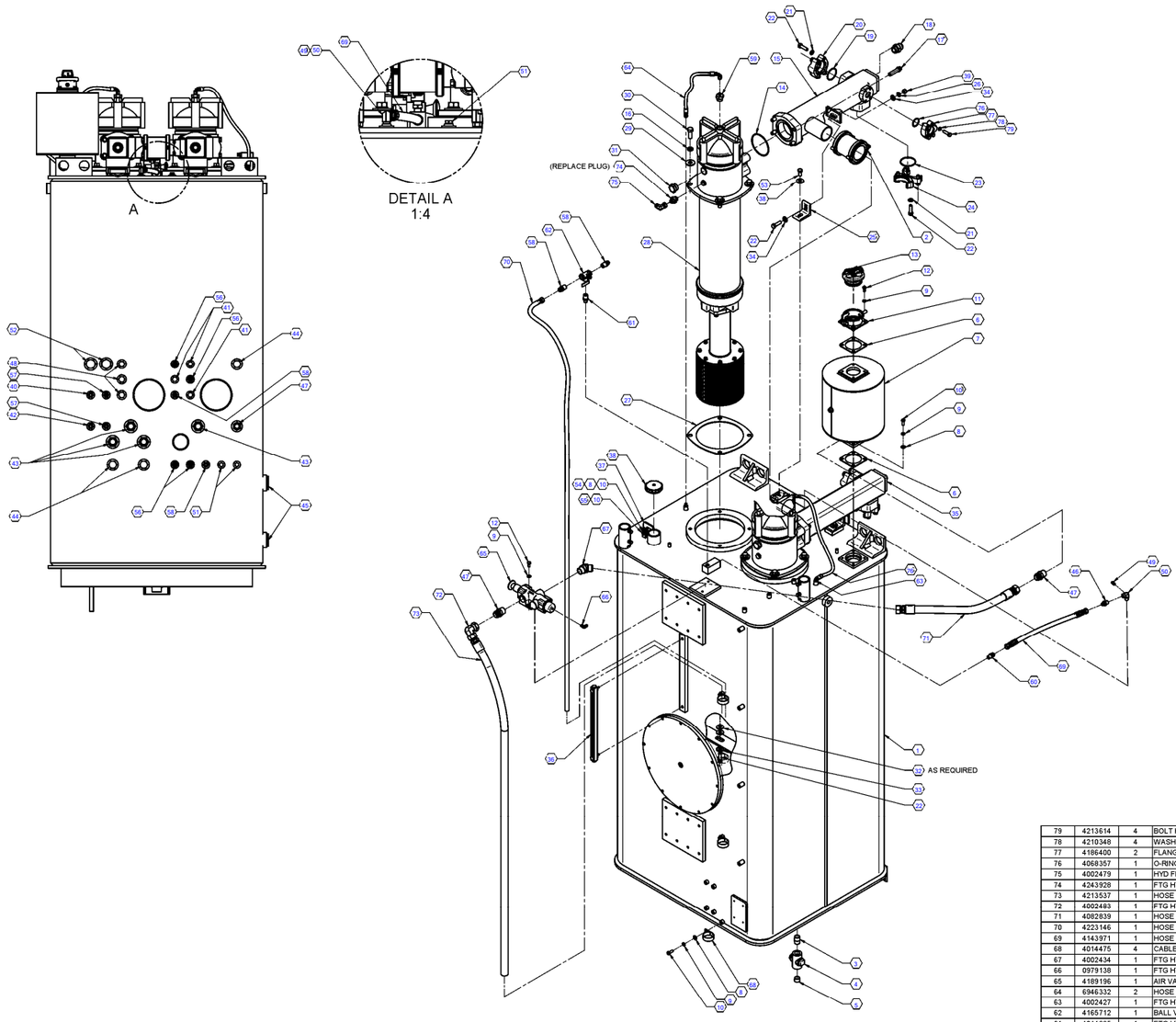
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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HYDRAULIC RESERVOIR ASSEMBLY



ITEM	PART NO.	QTY	DESCRIPTION
79	4213614	4	BOLT HX .438 1.750 NC G8
78	4210348	4	WASHER FLAT .438 .66 .13 HRD
77	4186400	2	FLANGE HALF 1.25 FORGED C61
76	4068357	1	O-RING, 1-1/4 SAE SPLIT FLANGE
75	4002479	1	HYD FITTING, 90-DEG 8 MJ 8 FJ
74	4243928	1	FTG HYD O 8 MJ 8 BSPP
73	4213537	1	HOSE 1000 16 80.0 0J
72	4002483	1	FTG HYD 90 16 MJ 16 FJ SWV
71	4082839	1	HOSE 1000 16 26.0 0J 0J
70	4223146	1	HOSE 300 8 98.0 0J
69	4143971	1	HOSE 2000 8 20.0 0J 0J
68	4014475	4	CABLE CLAMP INSL 2.00 .406
67	4002434	1	FTG HYD 45 16 MJ 16 MP
66	0979138	1	FTG HYD 90 4 MJ 2 MP
65	4189196	1	AIR VALVE 2-WAY NC
64	6946332	2	HOSE 2750 4 22.0 0J 90J
63	4002427	1	FTG HYD 45 4 MJ 2 MP
62	4165712	1	BALL VALVE 1/2 NPT
61	4244985	1	FTG HYD O 6 MP 8 MP
60	4002420	1	FTG HYD O 8 MJ 6 MP
59	4243936	2	FTG HYD O 4 MJ 12 MO
58	4018666	4	FTG HYD O 8 MJ 8 MP JUMP
57	4040557	2	FTG HYD O 6 MJ 8 MP JUMP
56	4256313	4	ASSY ORFICE .062 O 8MP 4MP
55	0998113	1	NUT LOCK HYL IND .375 NC
54	0812921	1	NUT HX 0.375 NC G8 PL
53	0801180	2	BOLT HX .500 1.000 NC G8 FT
52	4223348	2	PIPE PLUG 1.250 OH HX
51	4013780	3	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 O 4MJ 6MP
48	4223339	3	PIPE PLUG .750 OH HX
47	4002424	3	FTG HYD O 16 MJ 16 MP
46	4011756	1	FTG HYD O 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 O 20 MJ 20 MP
42	4244777	1	ADAPTER 1/2-14 NPT X 1/4-19 BSPP
41	4223338	3	PIPE PLUG .500 OH HEX
40	4032506	1	BUSHING REDUCER HYD
39	0909489	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	4040557	2	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 .600 1.760 NC G8
21	4210349	16	WASHER FLAT .500 .75 .13 HRD
20	4186402	4	FLANGE HALF 2.00 FORGED C61
19	4071255	2	O-RING, 2 SAE SPLIT FLANGE
18	4002459	2	FTG HYD O 16 MJ 16 MO
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	RING QUAD SEAL
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 30

UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS.
- TOLERANCES ON: ANGLES ±1°, FRAC TIONS ±1/16, .XX D ECIMAL ±.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.
426-7500

		DATE
DWN		
CHK		
ENGR		
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

ASSY HYD RES L1850 G2

SIZE E | DO NOT SCALE | DWG NO. 4274725 | REV 00

SCALE 1/6 | WT 2633 5 lbm | SHEET 1 OF 1

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HYDRAULIC RESERVOIR ASSEMBLY

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HYDRAULIC RESERVOIR ASSEMBLY

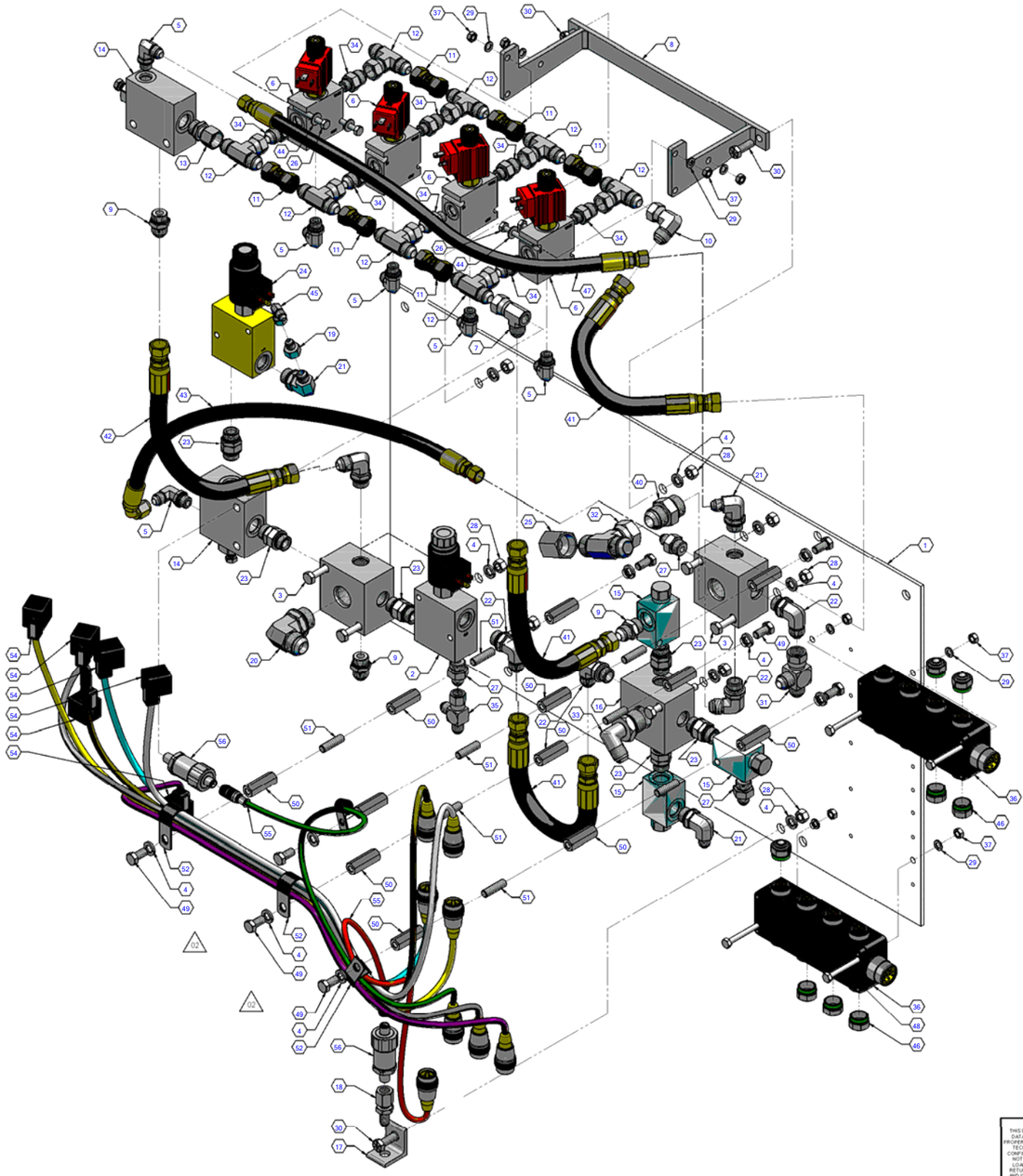
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274725		HYDRAULIC RESERVOIR ASSEMBLY		
1	R4257646	1	· RESERVOIR STRUCTURE, HYDRAULIC		
	R4248986	2	· · O-RING, 18-7/16" I.D. - BUNA N		
	R4248985	2	· · COVER PLATE, 20-5/8" - ALUMINUM		
	R0753123	24	· · LOCKWASHER, 3/8"		
	R0808476	24	· · BOLT, 3/8"-16 X 1-1/4"		
	R4013957	2	· · PLUG, PIPE - 3/4", SQ. CSK. MAG.		
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	R4002459	2	· ADAPTER, #16 MO X #16 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	8	· FLATWASHER, 5/8"		
30	R0021629	8	· BOLT, 5/8"-11 X 1-3/4"		
31	R4040567	2	· 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	R4032506	1	· BUSHING, 1/4" FP X 1/2" MP		
41	R4223338	3	· 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	3	· 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	R4256313	4	· ORIFICE ASSEMBLY, 1/4" MP X 1/2" MP - .062" ORIFICE		
57	R4040557	2	· ADAPTER, 1/2" MP X #6 MJ		
58	R4018666	4	· ADAPTER, 1/2" MP X #8 MJ		
59	R4243936	2	· ADAPTER, #12 MO X #4 MJ		
60	R4002420	1	· ADAPTER, 3/8" MP X #8 MJ		
61	R4244985	1	· ADAPTER, 3/8" MP X 1/2" MP		
62	R4165712	1	· VALVE, BALL - 3-WAY, 1/2"		
63	R4002427	1	· ELBOW, 1/8" MP X 45 deg. X #4 MJ		
64	R6946332	2	· HOSE ASSEMBLY, #4 X 22"		
65	R4189196	1	· VALVE, AIR - 2-WAY N.C.		
66	R0979138	1	· ELBOW, 1/8" MP X 90 deg. X #4 MJ - SWIVEL		
67	R4002434	1	· ELBOW, 1" MP X 45 deg. X #16 MJ		
68	R4014475	4	· CLAMP, CABLE - INSULATED, 2"		
69	R4143971	1	· HOSE ASSEMBLY, #8 X 20"		
70	R4223146	1	· HOSE ASSEMBLY, #8 X 98"		
71	R4082839	1	· HOSE ASSEMBLY, #16 X 26"		
72	R4002483	1	· ELBOW, #16 FJ X 90 deg. X #16 MJ - SWIVEL		
73	R4213537	1	· HOSE ASSEMBLY, #16 X 80"		
74	R4243928	1	· ADAPTER, #8 BSPP X #8 MJ		
75	R4002479	1	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
76	R4068357	1	· O-RING, 1-1/2" I.D. - POLYURETHANE		
77	R4186400	2	· FLANGE HALF, 1-1/4"		
78	R4210348	4	· FLATWASHER, 7/16" - HARDENED		
79	R4213614	4	· BOLT, 7/16"-14 X 1-3/4"		
	R4274725	REF	HYDRAULIC RESERVOIR ASSEMBLY		

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FRONT FRAME HYDRAULIC PANEL ASSEMBLY



ITEM	PART NO.	QTY	DESCRIPTION
56	4255490	2	TRANSMITTER PRESS 0-1500 PSIG
55	4265234	2	CABLE 3 PIN - M12X1.4 PIN 1M
54	4265233	6	CABLE 3 PIN - DIN 1M
53	0989000	1	CLAMP CABLE INSL .50 .281
52	0986143	3	CLAMP CABLE INSL 1.00 .406
51	4069503	8	ROD THREADED 3/8-16- NC X 1.375
50	4255973	12	NUT - 3/8-16 UNC, 2B LONG ROD CPLG
49	0810970	8	BOLT HX .375 .750 NC G8 FT
48	4009615	4	BOLT HX .250 2.250 NC G8
47	4129106	1	HOSE-A-24-0J-0J-4000PSI
46	4265200	4	CAP 7/8 MALE TURCK
45	4116444	1	FTG HYD 90 4 MJ 4 FJ
44	4010923	4	WASHER FLAT .250 .63 .08
43	4103035	1	HOSE-A-6-20-0J-90J-4000PSI
42	4119109	1	HOSE-A-8-14-0J-0J-2000PSI
41	4129000	3	HOSE 4250 .8 12.0 .0J 0J
40	4002457	1	FTG HYD 0 12 MJ 12 MO
37	4012935	8	NUT HEX .250 NC G8 PL
36	4265235	2	BREAKOUT BOX 12 PIN - 8 x 3 PIN
35	4131486	1	FTG HYD TE 6 MJ 6 FJ 6 MJ
34	4020772	8	FTG HYD 0 8 MJ 6 MO JUMP
33	4040554	1	FTG HYD 90 8 MJ 12 MO JUMP
32	4243656	1	FTG HYD TE 12 MJ 12 MJ 12 FJ
31	4078968	1	FTG HYD TE 8 MJ 8 FJ 8 MJ
30	0810971	3	BOLT HX .375 1.00 NC G8 FT
29	0213584	8	WASHER LOCK SPR .25 .49 .06
28	0812921	9	NUT HX 0.375 NC G8 PL
27	4020771	3	ADAPTER FTG HYD 0 8 MO 6 MJ JUMP
26	4009614	4	BOLT HX 1/4-20 UNC X 2.00
25	5001454	1	FTG HYD 0 4 MJ 12 FJ
24	4244831	1	VALVE ASY SOL 2 WAY NO 24VDC
23	4030078	6	FTG HYD 0 8 MO 8 MO
22	4002471	5	FTG HYD 90 8 MJ 8 MO
21	4017400	3	FTG HYD 90 6 MJ 8 MO JUMP
20	4002473	1	HYD FITTING, 90 12 MJ 12 MO
19	5001457	1	FTG HYD 0 4 MJ 6 FJ
18	4261258	1	FTG HYD 0 4 FP 4 MJ BH
17	4261259	1	ANGLE - MOUNT - TRANSDUCER
16	4170566	3	MANIFOLD, 5 PORT, #8, #12
15	4244881	3	VALVE-FLOW CONT ASSY 2.5 GPM
14	4244988	2	RELIEF VALVE ASSY - VENTED
13	4116765	1	FTG HYD 0 8 MO 8 FJ
12	4041768	8	FTG HYD TE 8 MJ 8 MJ 8 FJ
11	4244980	6	FTG HYD 0 8 FJ 8 FJ SWV
10	4002479	1	HYD FITTING, 90-DEG 8 MJ 8 FJ
9	4002455	3	FTG HYD 0 8 MJ 8 MO
8	4261262	1	STR - MOUNT SOLENOID VALVE
7	4261328	1	FTG HYD TE 4 FP 8 FJ 8 MJ
6	4261255	4	ASSY PILOT VALVE
5	4002470	6	HYD FITTING 90 6 MJ 6 MO
4	0753123	17	WASHER LOCK SPR .375 .68 .09
3	4009645	6	BOLT HX .375 3.00 NC G8
2	4256320	1	VALVE ASSY - SOL 3 WAY - 24VDC
1	4261322	1	PLATE - HYDRAULIC PANEL

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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 D ECIMAL ±.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: 427-1096

DWN		02-18-2019
CHK		02-18-2019
ENGR		
PROD ENGR		02-18-2019
PROJ APPROVAL		
MATL		

Le Tourneau Technologies™

ASSY HYD PANEL FF L1350 2201 UP

SIZE E | DO NOT SCALE | DWG NO. 4271092 | REV 02

SCALE 1/2 | WT 90.7 lbm | SHEET 1 OF 2

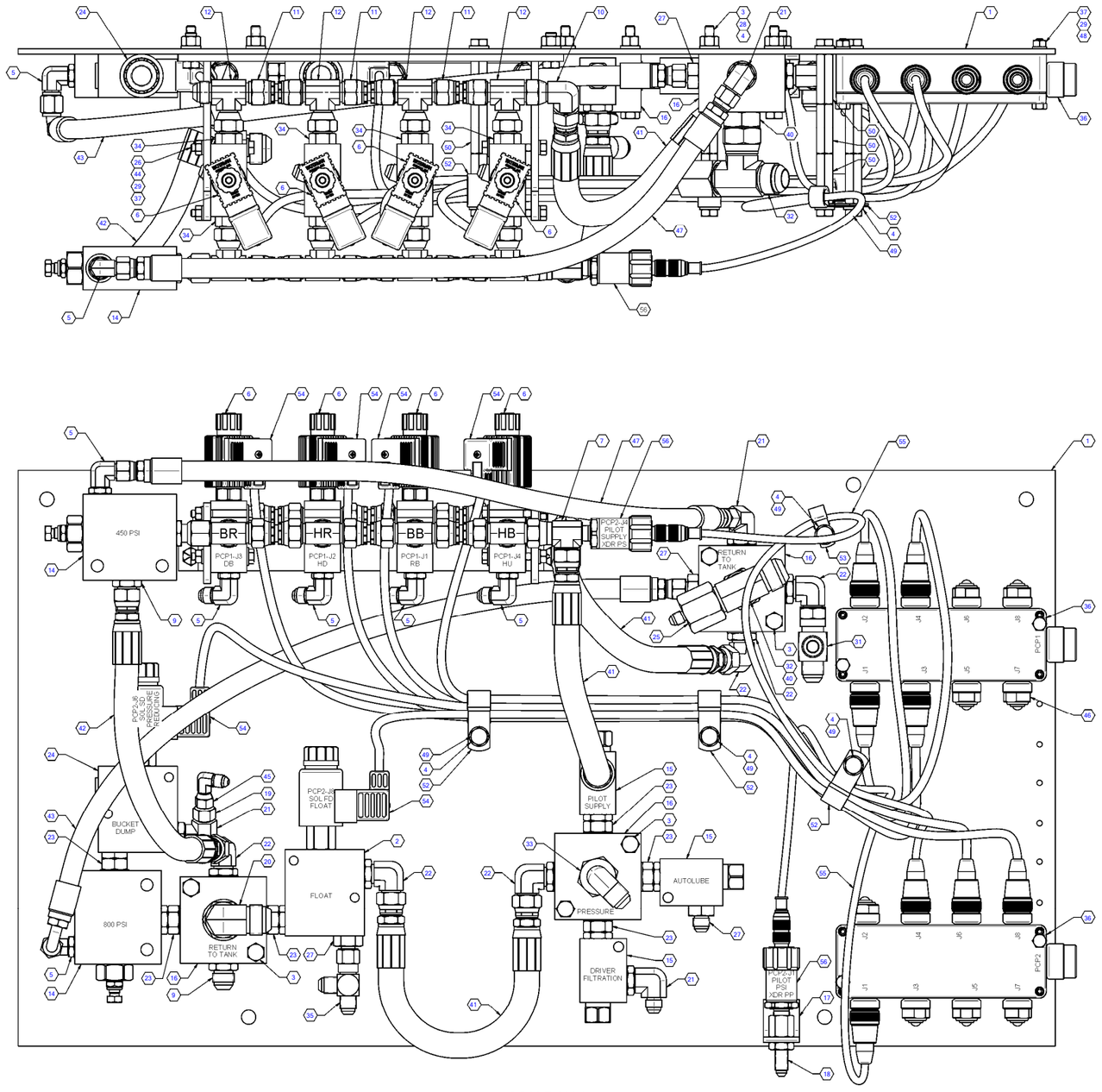
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FRONT FRAME HYDRAULIC PANEL ASSEMBLY

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FRONT FRAME HYDRAULIC PANEL ASSEMBLY

ZONE	REV	DESCRIPTION	ECR	DATE	CHK	APP
	00	RELEASE	NL10-1257	2-18	TEW	AY	AY
	01	SEE SHEET 1	NL10-1273	7-8	TEW	AY	AY
	02	SEE SHEET 1	NL11-1623	7-12	RAH	AY	AY



SCALE 3/4:1

ASSY HYD PANEL FF L1350 2201 UP				
DRAWN TeWills	SIZE E	DO NOT SCALE	DWG NO 4271092	REV 02
RELEASED 02-18-2010	SCALE 3/4	WEIGHT 90.7 lbm	SHEET 2 OF 2	

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FRONT FRAME HYDRAULIC PANEL ASSEMBLY

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FRONT FRAME HYDRAULIC PANEL ASSEMBLY

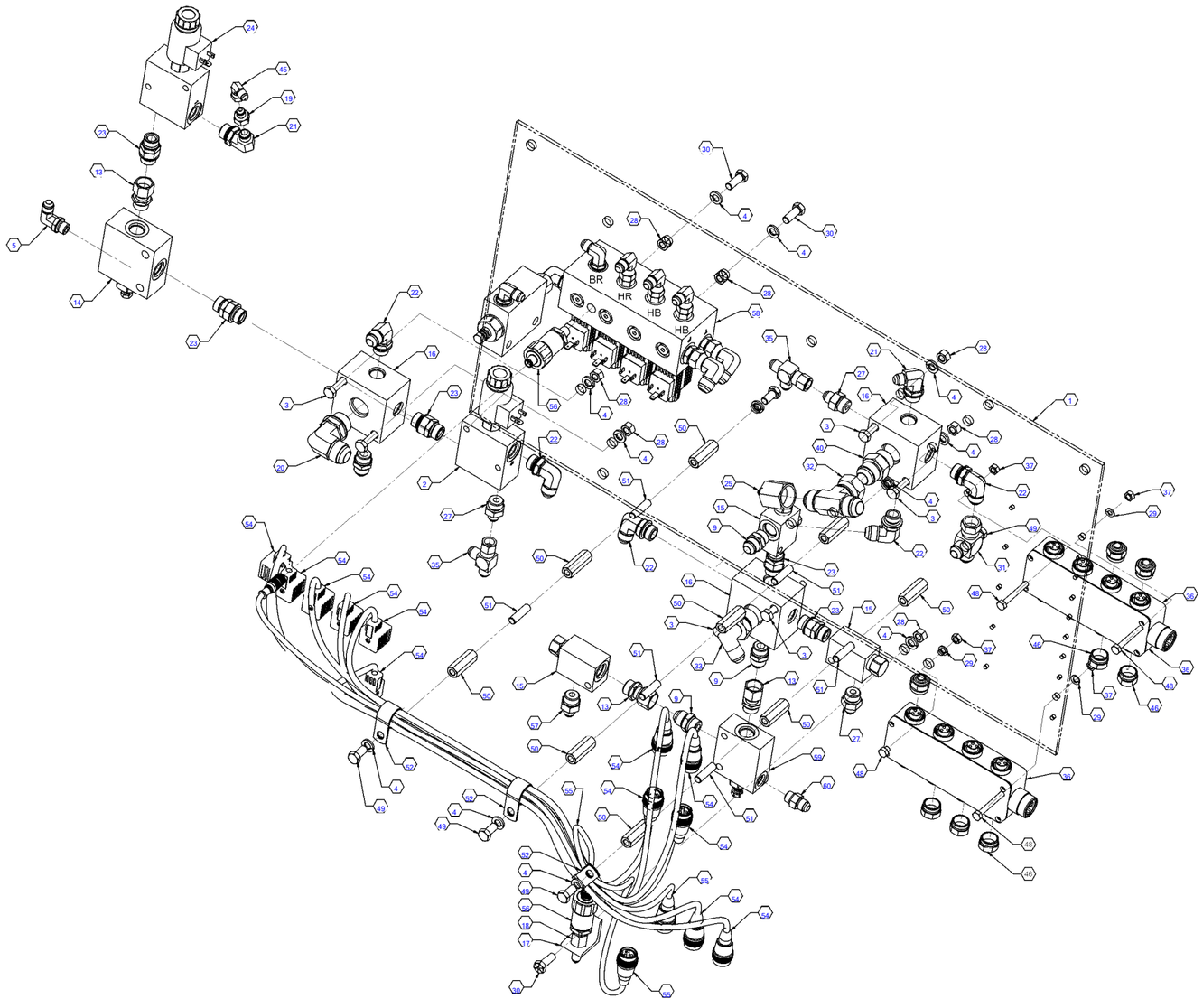
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271092		HYDRAULIC PANEL ASSEMBLY, FRONT FRAME		3/7/13
1	R4261322	1	· MOUNT PLATE, HYDRAULIC PANEL		
2	R4256320	1	· VALVE ASSEMBLY, SOLENOID - 3-WAY		
	R4138101	1	· · SEAL KIT		
	R4244836	1	· · COIL, 24VDC		
3	R4009645	6	· BOLT, 3/8"-16 X 3"		
4	R0753123	17	· LOCKWASHER, 3/8"		
5	R4002470	6	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
6	R4261255	4	· VALVE ASSEMBLY, PILOT		
	R4244981	4	· · HOUSING		
	R4238000	4	· · VALVE, PROPORTIONAL PRESSURE REDUCING		
	R4174782	4	· · COIL, 24VDC		
	R4248915	4	· · SPACER, 1/2" I.D. - SOLENOID, RUBBER		
7	R4261323	1	· TEE, #4 FP X #8 FP X #8 MJ		
8	R4261262	1	· MOUNT STRUCTURE, SOLENOID VALVE		
9	R4002455	3	· ADAPTER, #8 MO X #8 MJ		
10	R4002479	1	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
11	R4244980	6	· ADAPTER, #8 FJ X #8 FJ - SWIVEL		
12	R4041768	8	· TEE, #8 FJ X #8 MJ X #8 MJ		
13	R4116765	1	· ADAPTER, #8 MO X #8 FJ		
14	R4244988	2	· VALVE ASSEMBLY, RELIEF - VENTED		
	R4256409	2	· · VALVE, CARTRIDGE SEQUENCE		
	R4235025	2	· · SEAL KIT		
15	R4244881	3	· VALVE, FLOW CONTROL - 2.5 GPM		
16	R4170566	3	· MANIFOLD STRUCTURE - 5 PORT		
17	R4261259	1	· MOUNT ANGLE, TRANSDUCER		
18	R4261258	1	· ADAPTER, #4 FP X #4 MJ - BULKHEAD		
19	R5001457	1	· ADAPTER, #6 FJ X #4 MJ		
20	R4002473	1	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
21	R4017400	3	· ELBOW, #8 MO X 90 deg. X #6 MJ - ADJ.		
22	R4002471	5	· ELBOW, #8 MO X 90 deg. X #8 MJ - ADJ.		
23	R4030078	6	· ADAPTER, #8 MO X #8 MO		
24	R4244831	1	· VALVE ASSEMBLY, SOLENOID - 2-WAY N.O.		
25	R5001454	1	· ADAPTER, #12 FJ X #4 MJ		
26	R4009614	4	· BOLT, 1/4"-20 X 2"		
27	R4020771	3	· ADAPTER, #8 MO X #6 MJ		
28	R0812921	9	· NUT, 3/8"-16		
29	R0213584	8	· LOCKWASHER, 1/4"		
30	R0810971	3	· BOLT, 3/8"-16 X 1"		
31	R4078968	1	· TEE, #8 MJ X #8 FJ X #8 MJ		
32	R4243656	1	· TEE, #12 MJ X #12 MJ X #12 FJ		
33	R4040554	1	· ELBOW, #12 MO X 90 deg. X #8 MJ		
34	R4020772	8	· ADAPTER, #6 MO X #8 MJ		
35	R4131486	1	· TEE, #6 MJ X #6 FJ X #6 MJ		
36	R4265235	2	· BREAKOUT BOX, 12 PIN - 8 X 3 PIN		
37	R4012935	8	· NUT, 1/4"-20		
38	N.P.N.		· NOT USED		3/7/13
39	N.P.N.		· NOT USED		
40	R4002457	1	· ADAPTER, #12 MO X #12 MJ		
41	R4129000	3	· HOSE ASSEMBLY, #8 X 12"		
42	R4119109	1	· HOSE ASSEMBLY, #8 X 14"		
43	R4103635	1	· HOSE ASSEMBLY, #6 X 28"		
44	R4010923	4	· FLATWASHER, 1/4"		
45	R4116444	1	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
46	R4265200	4	· CAP, TURCK - 7/8" MALE		
47	R4129106	1	· HOSE ASSEMBLY, #6 X 24"		
48	R4009615	4	· BOLT, 1/4"-20 X 2-1/4"		
49	R0810970	8	· BOLT, 3/8"-16 X 3/4"		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
50	R4255973	12	· NUT, 3/8"		
51	R4069503	8	· ROD, THREADED - 3/8"-16 X 1-3/8"		
52	R0986143	3	· CLAMP, CABLE - INSULATED, 1"		
53	R0989000	1	· CLAMP, CABLE - INSULATED, 1/2"		
54	R4265233	6	· CABLE EXTENSION, 3 DIN 1M		
55	R4265234	2	· CABLE, 3 PIN - MX12 4 PIN, 1 M		3/7/13
56	R4255490	2	· TRANSMITTER, PRESSURE - 0-1500 PSI		3/7/13
	R4271092	REF	HYDRAULIC PANEL ASSEMBLY, FRONT FRAME		3/7/13

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FRONT FRAME HYDRAULIC PANEL ASSEMBLY



ITEM	PART NO.	QTY	DESCRIPTION
61	4270966	1	GP HOSE HYD PANEL FF
60	4002454	1	FTG HYD, 0 6 MJ 6 MO
59	4273458	1	SEQUENCE VALVE PILOT OPERATED
58	4274620	1	ASSY MANIFOLD - HYD PANEL
57	4020771	1	ADAPTER FTG HYD 0 8MO 6MJ JUMP
56	4255490	2	TRANSMITTER PRESS 0-1500 PSIG
55	4265234	2	CABLE 3 PIN - M12X1 4 PIN 1M
54	4265233	6	CABLE 3 PIN - DIN 1M
52	0986143	3	CLAMP CABLE INSL 1.00 .406
51	4069503	6	ROD THREADED 3/8-16- NC X 1.375
50	4255973	9	NUT - 3/8-16 UNC 2B LONG ROD CPLG
49	0810970	6	BOLT HX .375 .750 NC G8 FT
48	4009615	4	BOLT HX .250 2.250 NC G8
46	4265200	4	CAP 7/8 MALE TURCK
45	4116444	1	FTG HYD 90 4 MJ 4 FJ
40	4002457	1	FTG HYD 0 12 MJ 12 MO
37	4012935	4	NUT HEX .250 NC G8 PL
36	4265235	2	BREAKOUT BOX 12 PIN - 8 x 3 PIN
35	4131486	2	FTG HYD TE 6 MJ 6 FJ 6 MJ
33	4040554	1	FTG HYD 90 8 MJ 12 MO JUMP
32	4243656	1	FTG HYD TE 12 MJ 12 MJ 12 FJ
31	4078968	1	FTG HYD TE 8 MJ 8 FJ 8 MJ
30	0810971	3	BOLT HX .375 1.00 NC G8 FT
29	0213584	4	WASHER LOCK SPR .25 .49 .06
28	0812921	9	NUT HX 0.375-16UNC-2B G8 PL
27	4020771	3	ADAPTER FTG HYD 0 8MO 6MJ JUMP
25	5001454	1	FTG HYD 0 4 MJ 12 FJ
24	4244831	1	VALVE ASY SOL 2 WAY NO 24VDC
23	4030078	5	FTG HYD 0 8 MO 8 MO
22	4002471	5	FTG HYD 90 8 MJ 8 MO
21	4017400	2	FTG HYD 90 6 MJ 8 MO JUMP
20	4002473	1	HYD FITTING, 90 12 MJ 12 MO
19	5001457	1	FTG HYD 0 4 MJ 6 FJ
18	4261258	1	FTG HYD 0 4 FP 4 MJ BH
17	4261259	1	ANGLE - MOUNT - TRANSDUCER
16	4170566	3	MANIFOLD, 5 PORT, #8..#12
15	4244861	3	VALVE-FLOW CONT ASSY 2.5 GPM
14	4244988	1	RELIEF VALVE ASSY - VENTED
13	4116765	3	FTG HYD 0 8 MO 8 FJ
9	4002455	4	FTG HYD 0 8 MJ 8 MO
5	4002470	1	HYD FITTING 90 6 MJ 6 MO
4	0753123	15	WASHER LOCK SPR .375 .68 .09
3	4009645	6	BOLT HX .375 3.00 NC G8
2	4256320	1	VALVE ASSY - SOL 3 WAY - 24VDC
1	4261322	1	PLATE - HYDRAULIC PANEL

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INTERPRET DIM & TOL PER LETOURNEAU SPEC 1950.00.

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

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 427-1096

	DATE
DWN	2-18-10
CHK	2-18-10
ENGR	
PROD ENGR	2-18-10
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

ASSY HYD PANEL FF L1350 2201 UP

SIZE E | DO NOT SCALE | DWG NO. 4271092 | REV 08

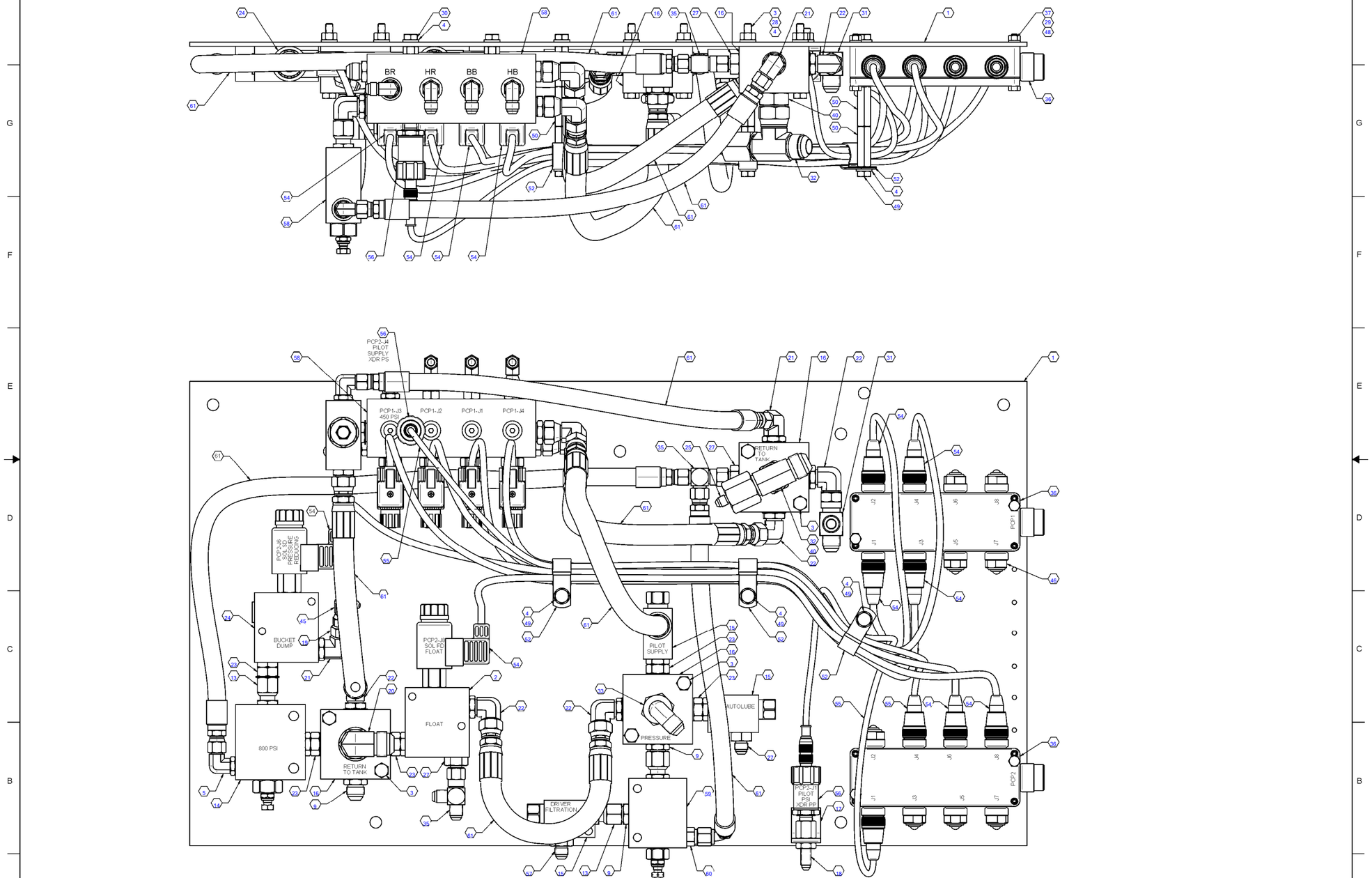
SCALE 1/2 | WT/WT 90.8 lbm | SHEET 1 OF 2

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FRONT FRAME HYDRAULIC PANEL ASSEMBLY

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FRONT FRAME HYDRAULIC PANEL ASSEMBLY



SCALE 3/4:1

ASSY HYD PANEL FF L1350 2201 UP

REV	DO NOT SCALE	DRWG NO.	REV
E		4271092	08
DRAWN 2-19-10	SCALE 3/4	WT 90.8 lbm	SHEET 2 OF 2

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FRONT FRAME HYDRAULIC PANEL ASSEMBLY

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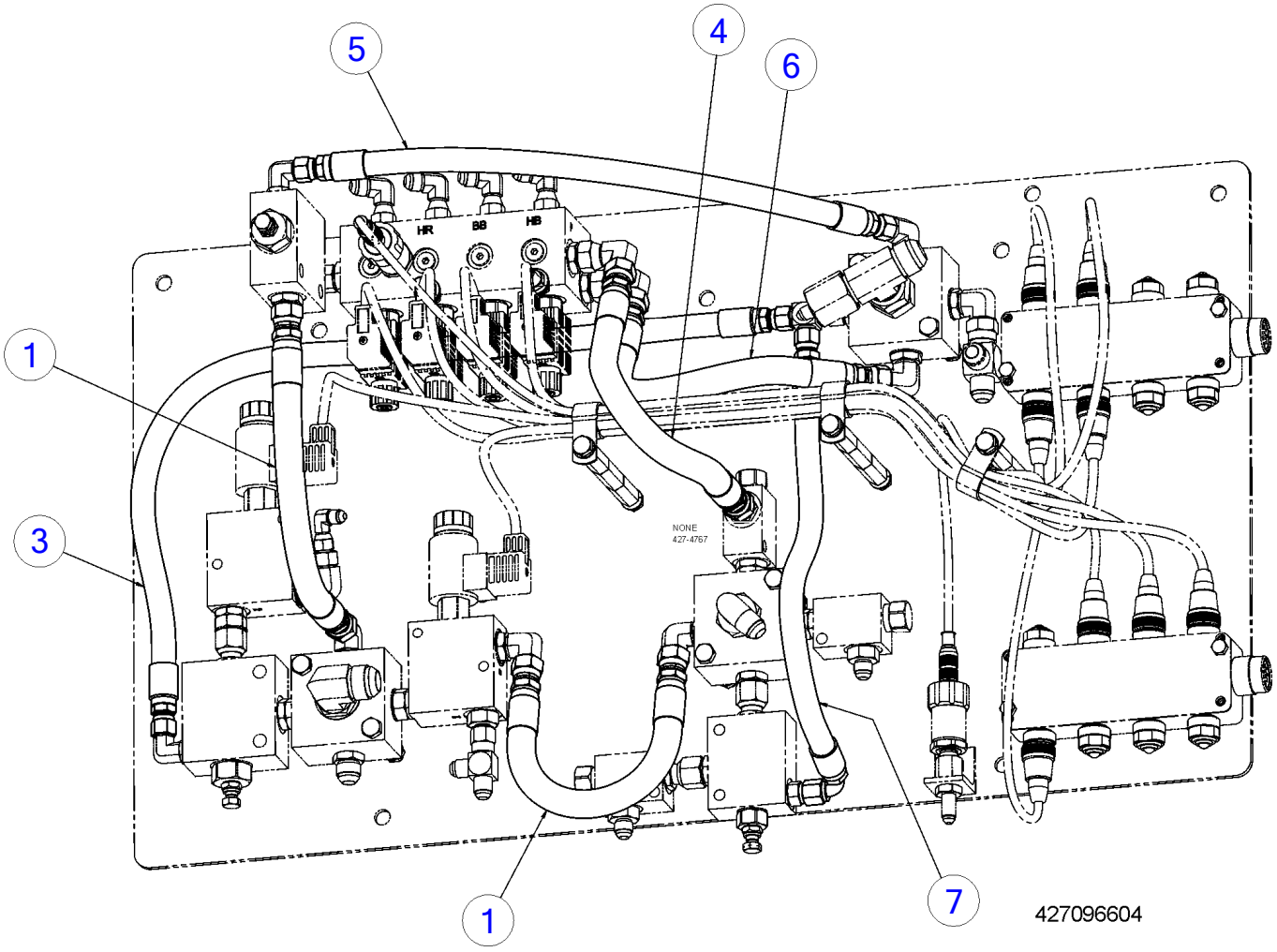
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271092		FRONT FRAME HYDRAULIC PANEL ASSEMBLY (-1)		
1	R4261322	1	· MOUNT PLATE, HYDRAULIC PANEL		
2	R4256320	1	· VALVE ASSEMBLY, SOLENOID - 3-WAY		
	R4138101	1	· · SEAL KIT		
	R4244836	1	· · COIL, 24VDC		
3	R4009645	6	· BOLT, 3/8"-16 X 3"		
4	R0753123	17	· LOCKWASHER, 3/8"		
5	R4002470	6	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
6	N.P.N.		· NOT USED		
7	N.P.N.		· NOT USED		
8	N.P.N.		· NOT USED		
9	R4002455	4	· ADAPTER, #8 MO X #8 MJ		
10	N.P.N.		· NOT USED		
11	N.P.N.		· NOT USED		
12	N.P.N.		· NOT USED		
13	R4116765	3	· ADAPTER, #8 MO X #8 FJ		
14	R4244988	1	· VALVE ASSEMBLY, RELIEF - VENTED		
	R4256409	1	· · VALVE, CARTRIDGE SEQUENCE		
	R4235025	1	· · SEAL KIT		
15	R4244881	3	· VALVE, FLOW CONTROL - 2.5 GPM		
16	R4170566	3	· MANIFOLD STRUCTURE - 5 PORT		
17	R4261259	1	· MOUNT ANGLE, TRANSDUCER		
18	R4261258	1	· ADAPTER, #4 FP X #4 MJ - BULKHEAD		
19	R5001457	1	· ADAPTER, #6 FJ X #4 MJ		
20	R4002473	1	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
21	R4017400	2	· ELBOW, #8 MO X 90 deg. X #6 MJ - ADJ.		
22	R4002471	5	· ELBOW, #8 MO X 90 deg. X #8 MJ - ADJ.		
23	R4030078	5	· ADAPTER, #8 MO X #8 MO		
24	R4244831	1	· VALVE ASSEMBLY, SOLENOID - 2-WAY N.O.		
25	R5001454	1	· ADAPTER, #12 FJ X #4 MJ		
26	N.P.N.		· NOT USED		
27	R4020771	3	· ADAPTER, #8 MO X #6 MJ		
28	R0812921	9	· NUT, 3/8"-16		
29	R0213584	4	· LOCKWASHER, 1/4"		
30	R0810971	3	· BOLT, 3/8"-16 X 1"		
31	R4078968	1	· TEE, #8 MJ X #8 FJ X #8 MJ		
32	R4243656	1	· TEE, #12 MJ X #12 FJ X #12 MJ		
33	R4040554	1	· ELBOW, #12 MO X 90 deg. X #8 MJ		
34	N.P.N.		· NOT USED		
35	R4131486	2	· TEE, #6 MJ X #6 FJ X #6 MJ		
36	R4265235	2	· BREAKOUT BOX, 12 PIN - 8 X 3 PIN		
37	R4012935	4	· NUT, 1/4"-20		
38	N.P.N.		· NOT USED		
39	N.P.N.		· NOT USED		
40	R4002457	1	· ADAPTER, #12 MO X #12 MJ		
41	N.P.N.		· NOT USED		
42	N.P.N.		· NOT USED		
43	N.P.N.		· NOT USED		
44	N.P.N.		· NOT USED		
45	R4116444	1	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
46	R4265200	4	· CAP, TURCK - 7/8" MALE		
47	N.P.N.		· NOT USED		
48	R4009615	4	· BOLT, 1/4"-20 X 2-1/4"		
49	R0810970	6	· BOLT, 3/8"-16 X 3/4"		
50	R4255973	9	· NUT, 3/8"		
51	R4069503	6	· ROD, THREADED - 3/8" X 1-3/8"		
52	R0986143	3	· CLAMP, CABLE - INSULATED, 1"		
53	N.P.N.		· NOT USED		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
54	R4265233	6	· CABLE EXTENSION, 3 PIN 1M		
55	R4265234	2	· CABLE EXTENSION, 3 PIN - M12 X 1 4 PIN 1M		
56	R4255490	2	· TRANSMITTER, PRESSURE - 0-1500 PSI		
57	R4020771	1	· ADAPTER, #8 MO X #6 MJ		
58	R4274620	1	· MANIFOLD ASSEMBLY, PANEL		
	R4273402	1	· · MANIFOLD, PANEL		
	R4238000	4	· · VALVE, PROPORTIONAL PRESSURE REDUCING		
	R4174782	4	· · COIL, 24 VDC		
	R4244988	1	· · VALVE ASSEMBLY, RELIEF - VENTED		
	R4256409	1	· · · VALVE, CARTRIDGE SEQUENCE		
	R4235025	1	· · · SEAL KIT		
59	R4273458	1	· VALVE, SEQUENCE - PILOT OPERATED		
60	R4002454	1	· ADAPTER, #6 MO X #6 MJ		
61	R4270966	1	· HOSE GROUP		
	R4129000	2	· · HOSE ASSEMBLY, #8 X 12"		
	R4129111	1	· · HOSE ASSEMBLY, #6 X 34"		
	R4222302	1	· · HOSE ASSEMBLY, #8 X 15"		
	R4143736	1	· · HOSE ASSEMBLY, #6 X 20"		
	R4129001	1	· · HOSE ASSEMBLY, #8 X 14"		
	R4155548	1	· · HOSE ASSEMBLY, #6 X 18"		
	R4271092	REF	DRAWING, FRONT FRAME HYDRAULIC PANEL ASSEMBLY (08)		

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FRONT FRAME HYDRAULIC PANEL HOSE GROUP



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FRONT FRAME HYDRAULIC PANEL HOSE GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4270966		FRONT FRAME HYDRAULIC PANEL HOSE GROUP		6/21/18
1	R4129000	2	· HOSE ASSEMBLY, #8 X 12"		
2	N.P.N.		· NOT USED		
3	R4129111	1	· HOSE ASSEMBLY, #6 X 34"		
4	R4222302	1	· HOSE ASSEMBLY, #8 X 15"		
5	R4143736	1	· HOSE ASSEMBLY, #6 X 20"		
6	R4129001	1	· HOSE ASSEMBLY, #8 X 14"		
7	R4155548	1	· HOSE ASSEMBLY, #6 X 18"		
		REF	DRAWING, FRONT FRAME HYDRAULIC PANEL HOSE GROUP (R427096604)		6/21/18

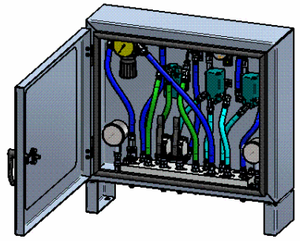
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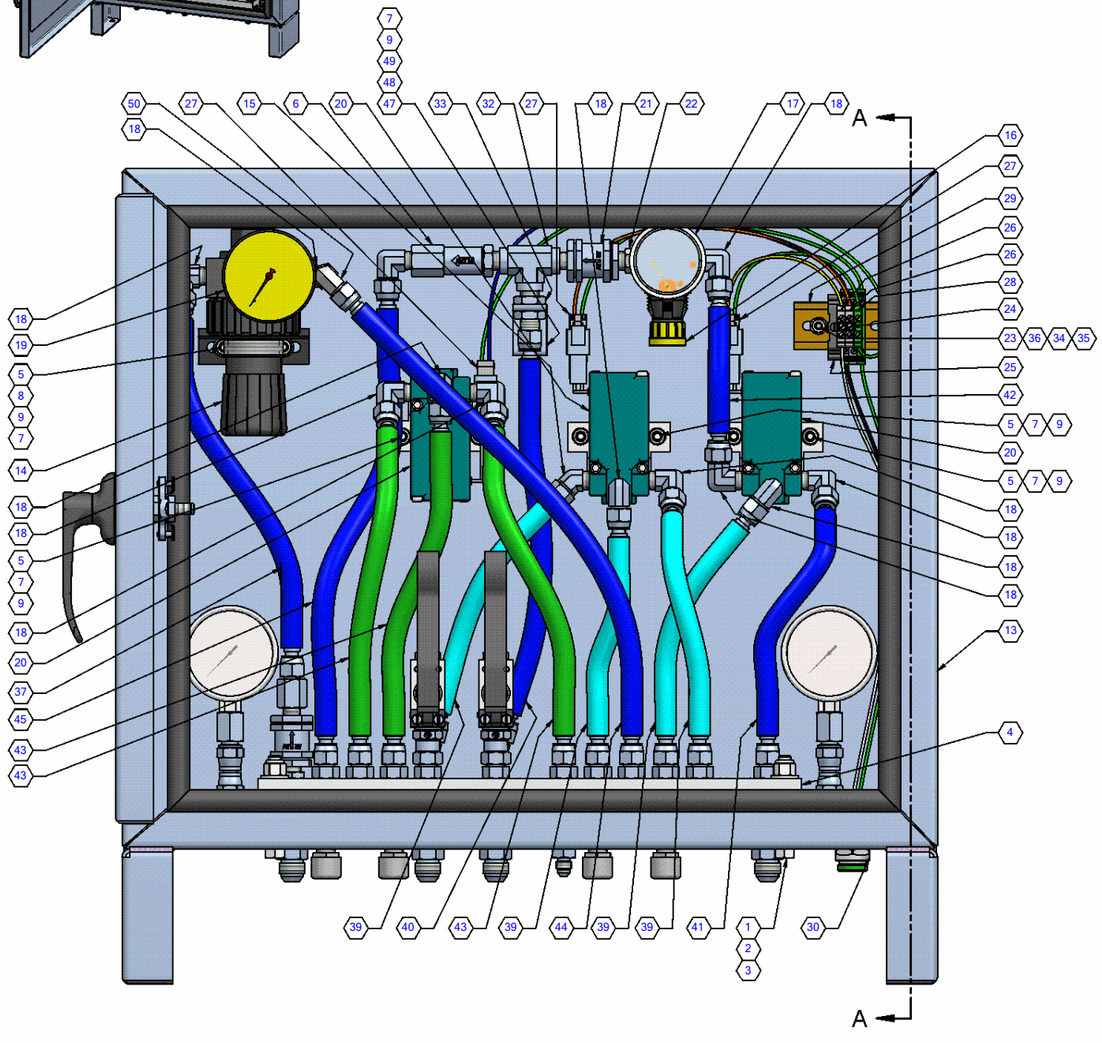
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

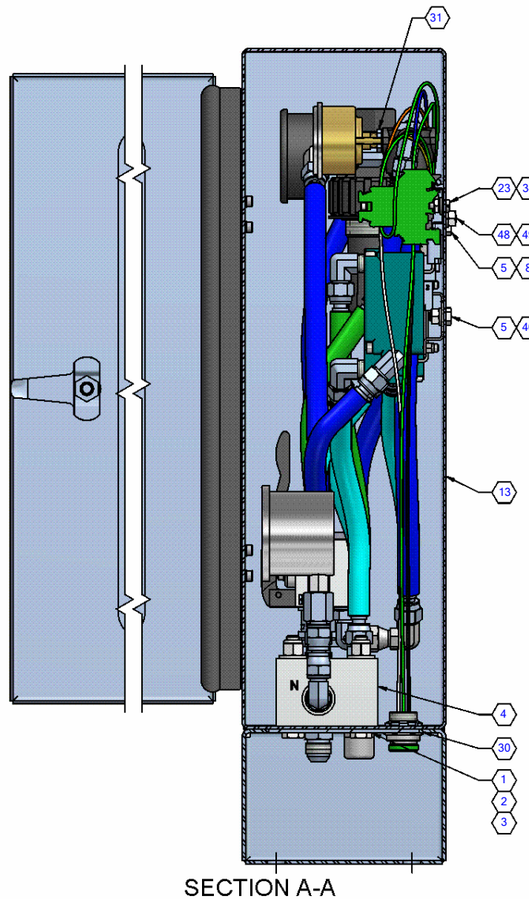
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AIR BOX ASSEMBLY







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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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: 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

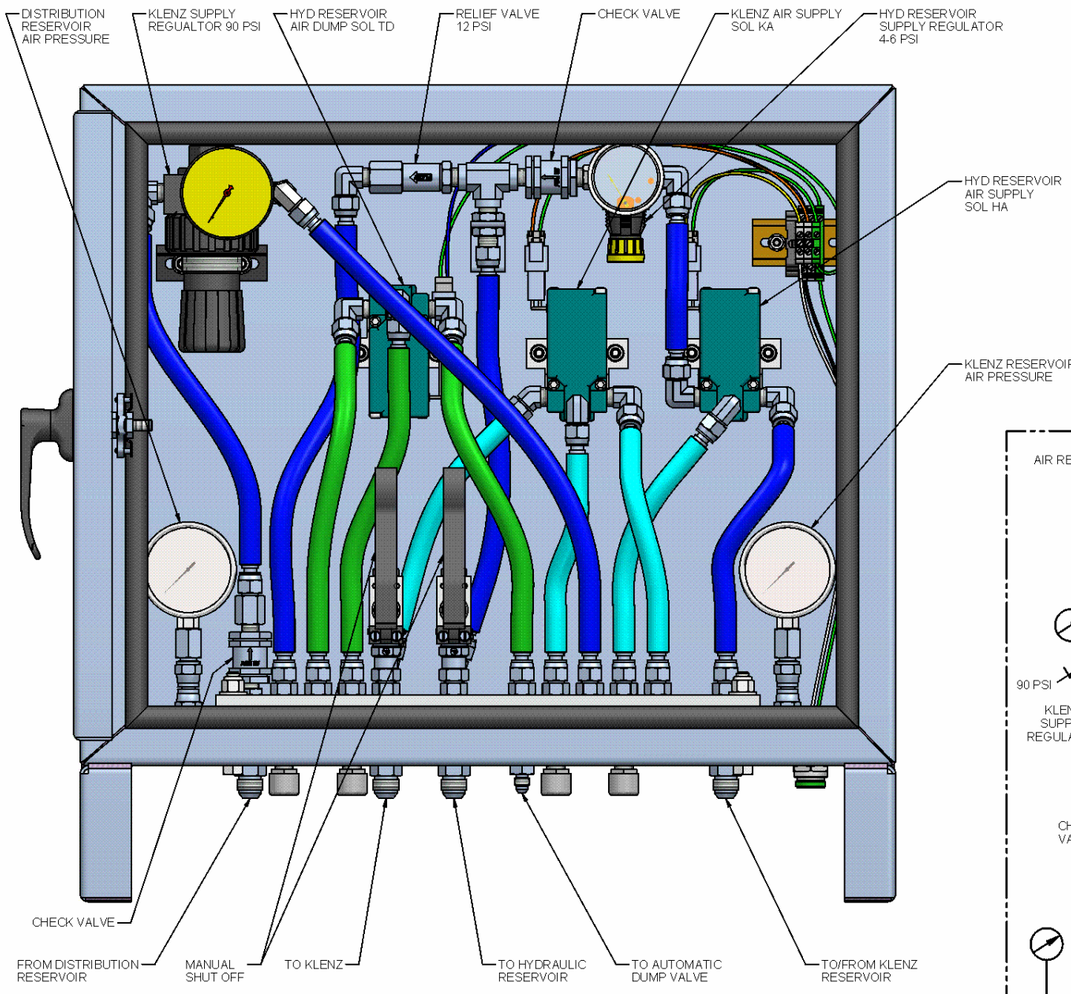
SCALE 1/2 | EST WT 83.0 lbm | SHEET 1 OF 2

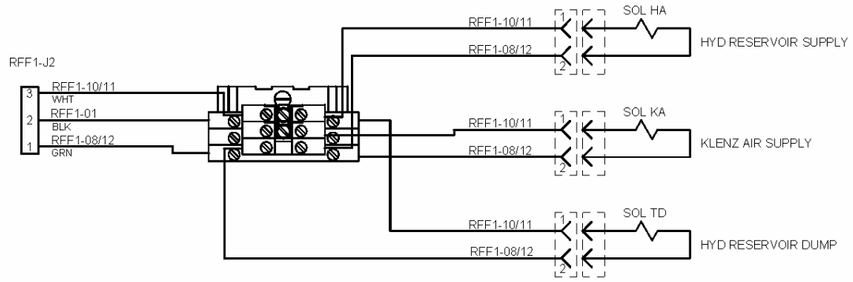
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AIR BOX ASSEMBLY

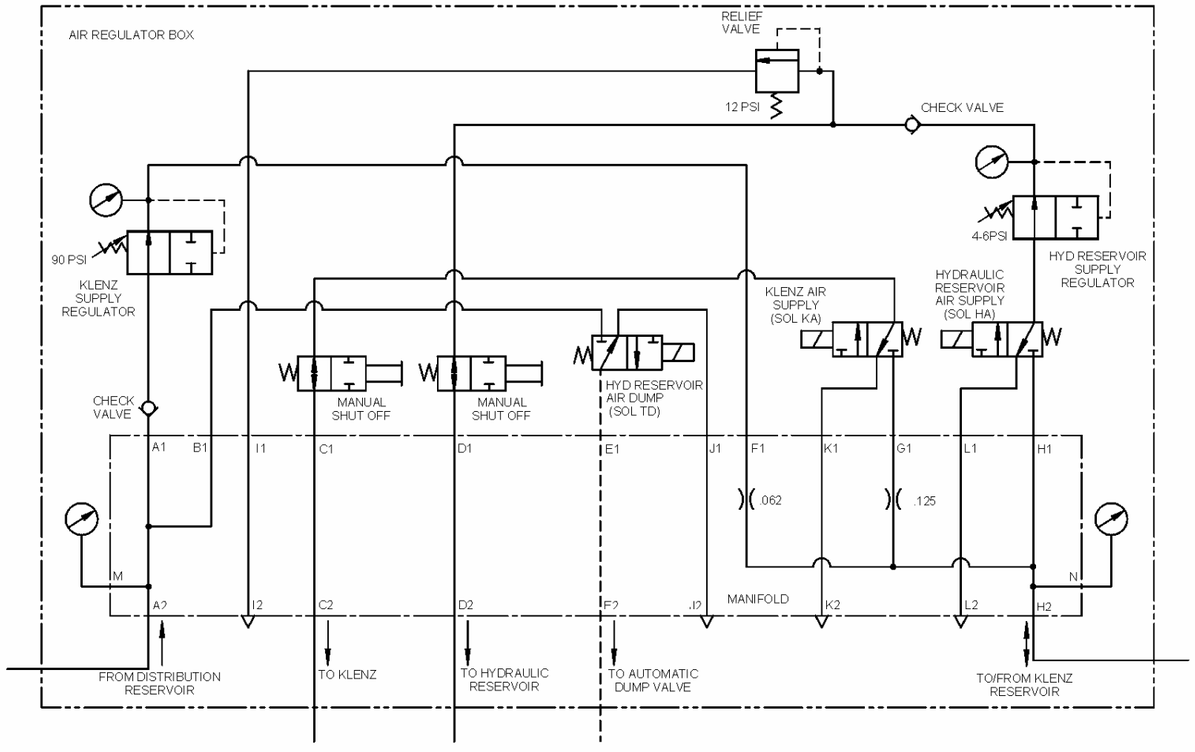
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AIR BOX ASSEMBLY





WIRING DIAGRAM



HYDRAULIC SCHEMATIC

ASSY AIR BOX	SIZE D	DO NOT SCALE	DWG NO. 4271109	REV 02	
DRAWN	SCALE 1/2	WEIGHT 83.0 lbm	SHEET 2 OF 2		
ISSUED					

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AIR BOX ASSEMBLY

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AIR BOX ASSEMBLY

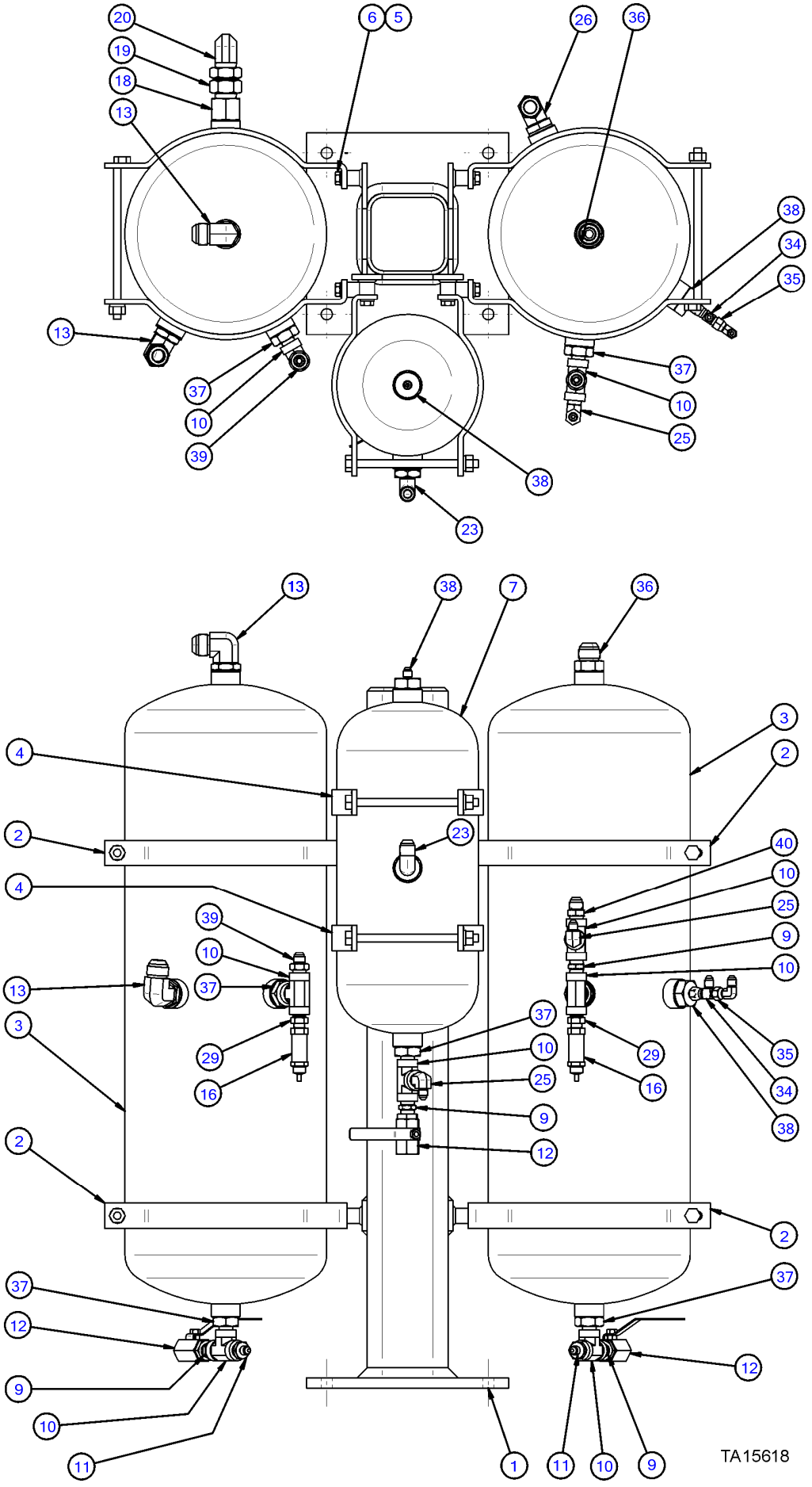
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4271109			AIR BOX ASSEMBLY		11/12/13
1	R4009644	4		· BOLT, 3/8"-16 X 2-3/4"		
2	R0808221	4		· FLATWASHER, 3/8"		
3	R0985113	4		· LOCKNUT, 3/8"-16 - NYLON		
4	R4271097	1		· MANIFOLD ASSEMBLY, AIR BOX		
	R4268037	1		· · MANIFOLD, AIR BOX		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 TANK STAND ASSEMBLY



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AIR TANK STAND ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273420		AIR TANK STAND ASSEMBLY		8/7/12
1	R4273412	1	· TANK STAND STRUCTURE		
2	R4117472	4	· BRACKET, AIR RESERVOIR		
3	R4270895	2	· RESERVOIR, AIR - 10" O.D. X 30-3/4" - S.S.		
4	R4007414	2	· BRACKET, MOUNTING		
5	R0753123	12	· LOCKWASHER, 3/8"		
6	R0810971	12	· BOLT, 3/8"-16 X 1"		
7	R4270897	2	· RESERVOIR, AIR - 7" O.D. X 16-1/2" - S.S.		
8	N.P.N.		· NOT USED		
9	R4032312	4	· NIPPLE, PIPE - 3/8", HEX		
10	R4032315	6	· TEE, 3/8" FP		
11	R4040562	2	· ADAPTER, 3/8" MP X #4 MJ		
12	R4152842	3	· VALVE, BALL - 3/8"		
13	R4002473	2	· ELBOW, #12 MO X 90 deg. X #12 MJ - ADJ.		
14	N.P.N.		· NOT USED		
15	N.P.N.		· NOT USED		
16	R4255667	2	· VALVE, RELIEF - 175 PSI		
17	N.P.N.	2	· NOT USED		
18	R4273487	1	· ADAPTER, #12 MO X 3/4" FP		
19	R4244754	1	· VALVE, CHECK - 3/4"		
20	R4002441	1	· ELBOW, 3/4" MP X 90 deg. X #12 MJ		
21	N.P.N.		· NOT USED		
22	N.P.N.		· NOT USED		
23	R4040554		· ELBOW, #12 MO X 90 deg. X #8 MJ		
24	N.P.N.		· NOT USED		
25	R6953864	2	· ELBOW, 3/8" MP X 90 deg. X #4 MJ		
26	R4043033	1	· TEE, #12 MJ X #12 MO X #12 MJ		
27	N.P.N.		· NOT USED		
28	N.P.N.		· NOT USED		
29	R4013787	2	· BUSHING, 1/4" FP X 3/8" MP		
30	N.P.N.		· NOT USED		
31	N.P.N.		· NOT USED		
32	N.P.N.		· NOT USED		
33	N.P.N.		· NOT USED		
34	R4273499	1	· TEE, #4 MJ X #4 FJ X #4 MJ		
35	R4116444	1	· ELBOW, #4 FJ X 90 deg. X #4 MJ - SWIVEL		
36	R4002457	1	· ADAPTER, #12 MO X #12 MJ		
37	R4273497	5	· ADAPTER, #12 MO X 3/8" MP		
38	R4243936	2	· ADAPTER, #12 MO X #4 MJ		
39	R4011756	1	· ADAPTER, 3/8" MP X #6 MJ		8/7/12
40	R4002420	1	· ADAPTER, 3/8" MP X #8 MJ		8/7/12
		REF	DRAWING, AIR TANK STAND ASSEMBLY (R427342005)		8/7/12

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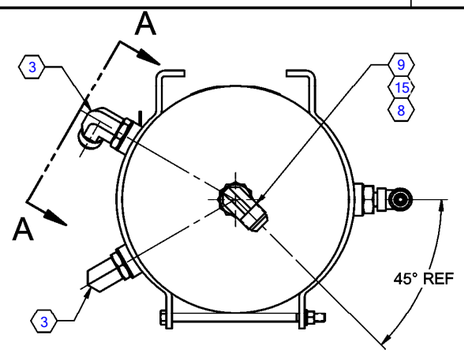
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

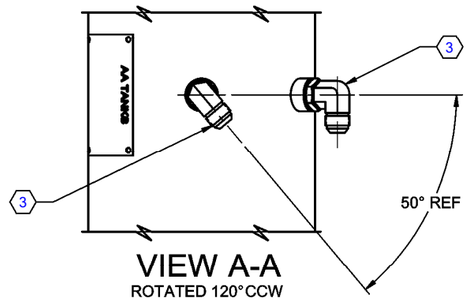
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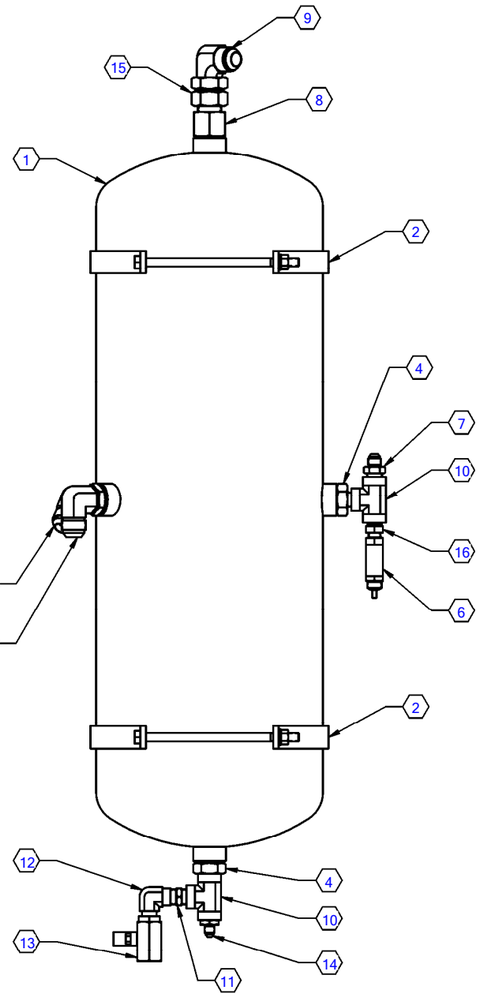
FRONT AIR RESERVOIR ASSEMBLY

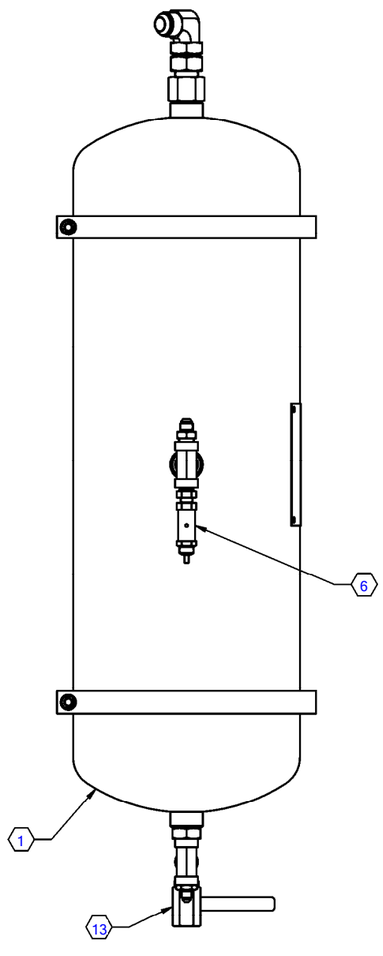
REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	NL12-1593	7-17-12	JFM	AY	AY
	01	DELE IT 5 (4031446); IT 7 WAS 0527116;					
	01	QTY IT 10 WAS 1; ADD IT 16 (4013787)	NL13-1602	2-26	TEW	JBD	JBD

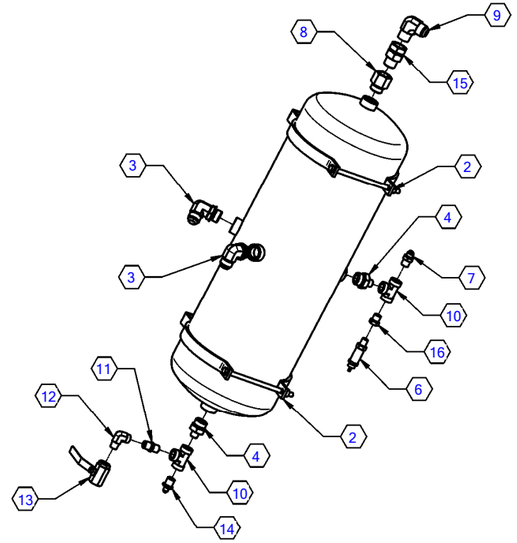




VIEW A-A
ROTATED 120°CCW







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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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 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)		

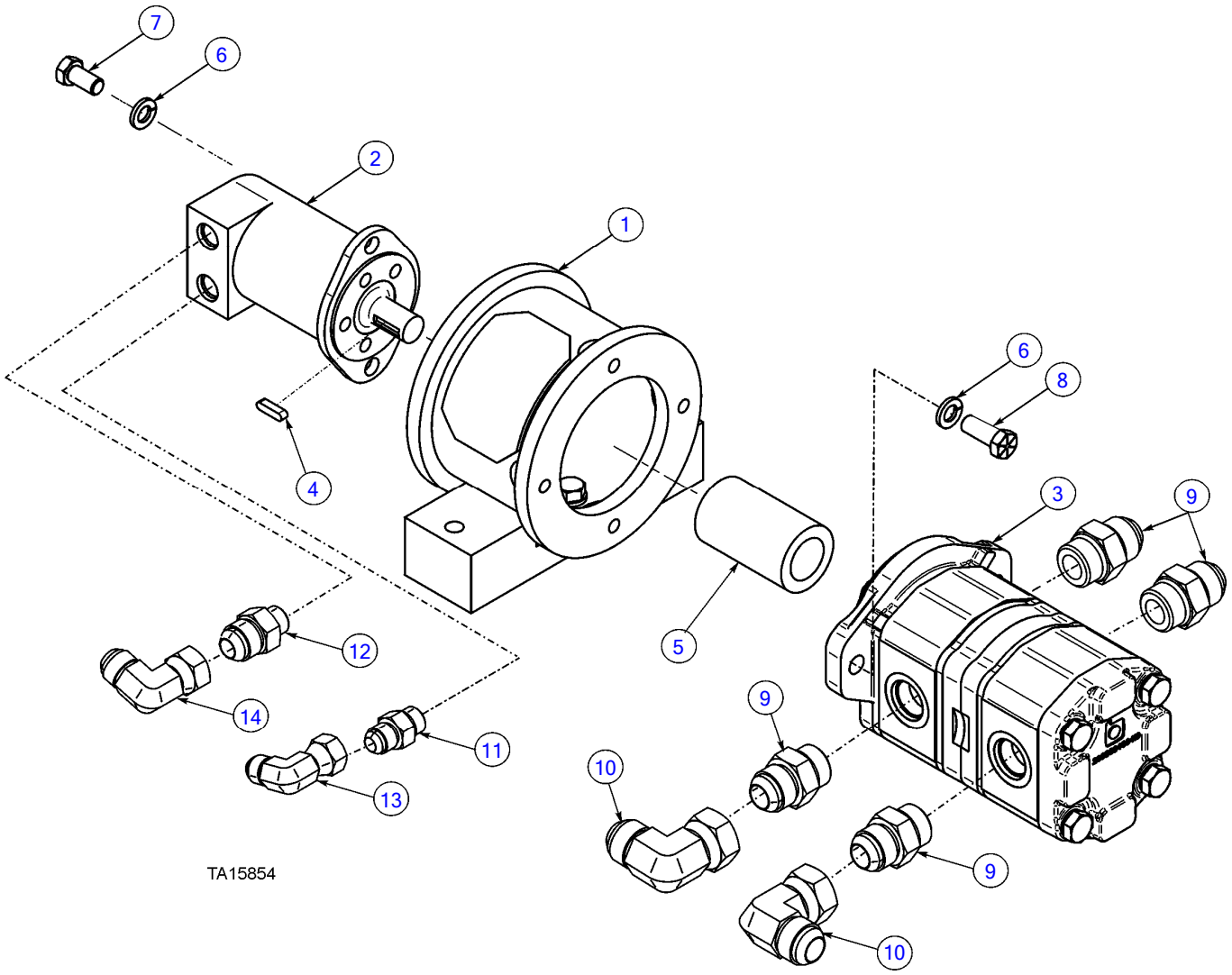
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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
	R4273478		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	R4002457	4	· ADAPTER, #12 MO X #12 MJ		
10	R4002481	2	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
11	R4002454	1	· ADAPTER, #6 MO X #6 MJ		
12	R4020772	1	· ADAPTER, #6 MO X #8 MJ		
13	R4002478	1	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
14	R4002479	1	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
		REF	DRAWING, DRIVER FILTRATION MOTOR/PUMP ASSEMBLY (R427347801)		

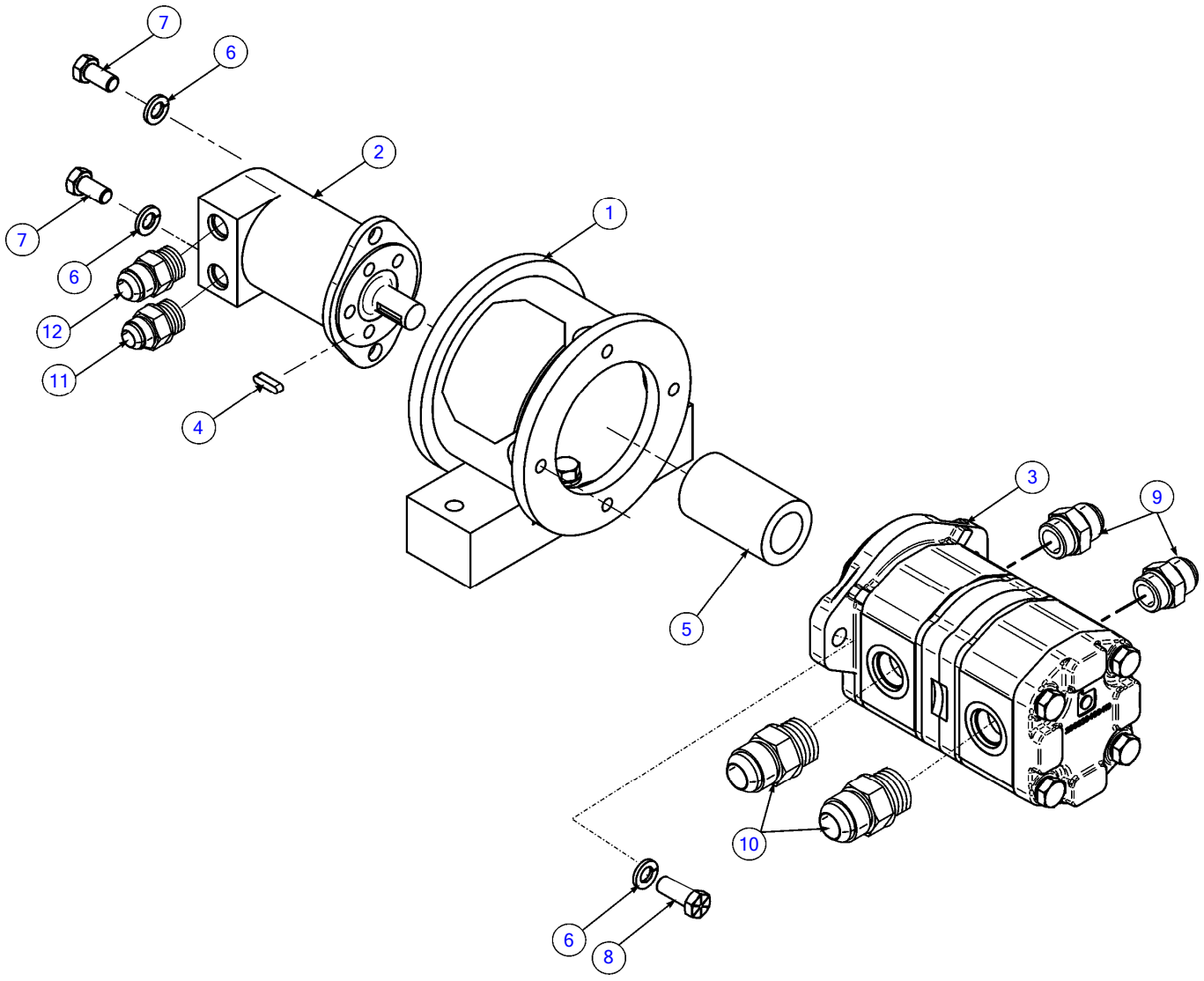
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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)		

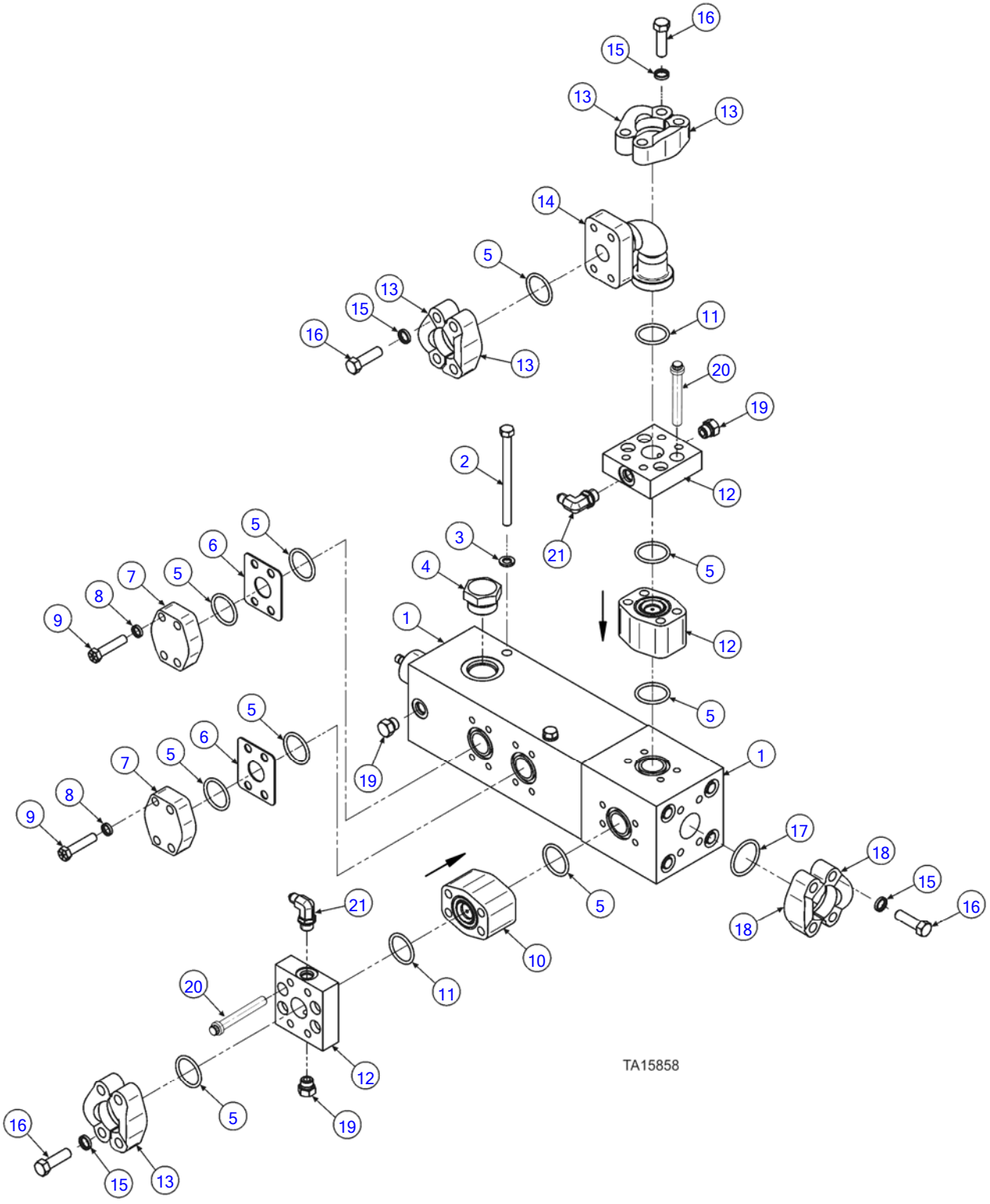
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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

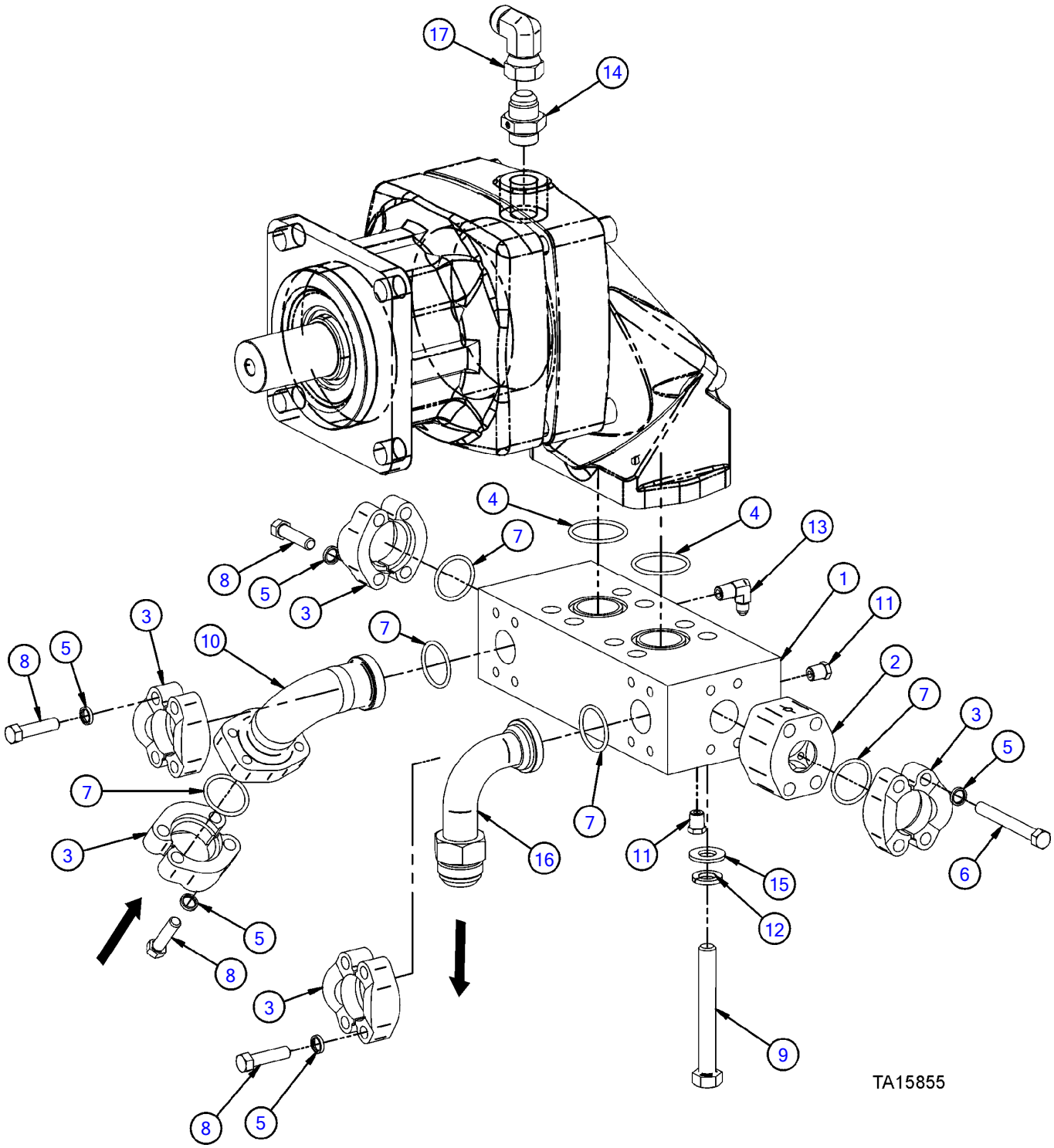
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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
	R4274596		FAN MOTOR MANIFOLD GROUP		6/21/18
1	R4274595	1	· 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	R4186400	10	· FLANGE HALF, 1-1/4"		
4	R4068358	2	· O-RING, 1-7/8" I.D. - POLYURETHANE		
5	R4210348	20	· FLATWASHER, 7/16" - HARDENED		
6	R4009517	4	· BOLT, 7/16"-14 X 3-3/4"		
7	R4068357	5	· O-RING, 1-1/2" I.D. - POLYURETHANE		
8	R4213614	16	· BOLT, 7/16"-14 X 1-3/4"		
9	R4249148	8	· BOLT, M16 X2 X 125		
10	R4255268	1	· ELBOW STRUCTURE, 1-1/4" S.F. X 90 deg.		
11	R4013779	3	· PLUG, PIPE - 1/4", HEX HD.		
12	R0021541	8	· LOCKWASHER, 5/8"		
13	R4011748	1	· ELBOW, 1/4" MP X 90 deg. X #4 MJ		
14	R4277911	1	· ADAPTER, #12 MJ X 3/4-14 BSPP		
15	R4010925	8	· FLATWASHER, 5/8" I.D. X 1- 5/16" O.D. X 1/8"		
16	R4261719	1	· ELBOW STRUCTURE, 1-1/4" S.F. X 90 deg. X #20 MJ		
17	R4002481	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		
		REF	DRAWING, FAN MOTOR MANIFOLD GROUP (R427459605)		6/21/18

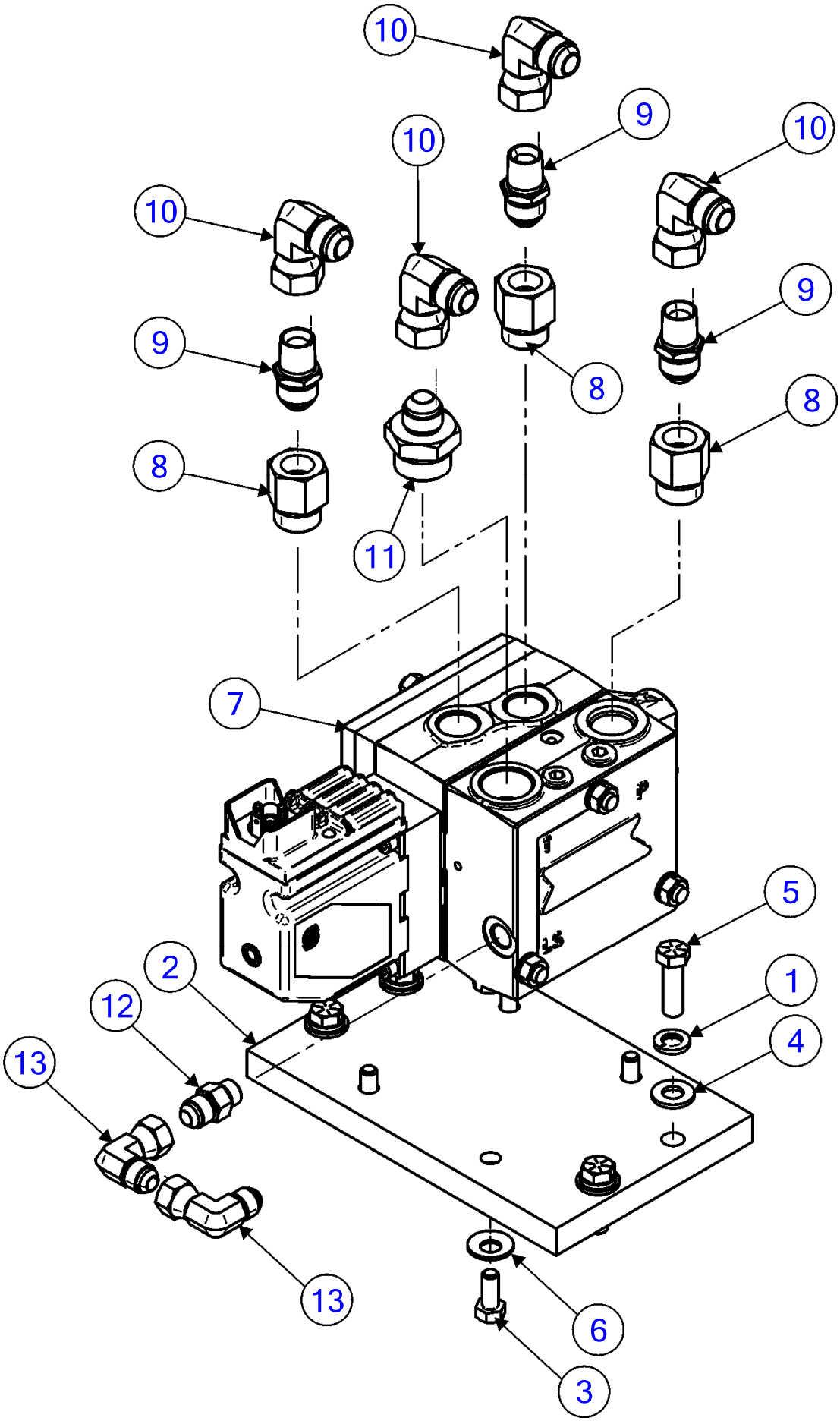
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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PROPORTIONAL VALVE SUB-ASSEMBLY



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PROPORTIONAL VALVE SUB-ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4275774		PROPORTIONAL VALVE SUB-ASSEMBLY		6/21/18
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	· WASHER, BELL - 5/16" I.D. X 13.16" O.D. X 1/8", HARDENED		6/21/18
7	R4237953	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		
	R4241460	1	· · ELECTRICAL ACTIVATION, PVE/PVEH		
	R4241461	1	· · END PLATE, PVS		
	R4241462	1	· · ASSEMBLY KIT, PVAS		
	R4241482	1	· · SEAL KIT		
8	R4057053	3	· REDUCER, #10 MO X 3/8" FP		
9	R4002420	3	· ADAPTER, 3/8" MP X #8 MJ		
10	R4002479	4	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		
11	R4040550	1	· ADAPTER, #12 MO X #8 MJ		
12	R4237965	1	· ADAPTER, #5 MO X #6 MJ		
13	R4002478	2	· ELBOW, #6 FJ X 90 deg. X #6 MJ - SWIVEL		
		REF	DRAWING, PROPORTIONAL VALVE SUB-ASSEMBLY (R427577401)		6/21/18

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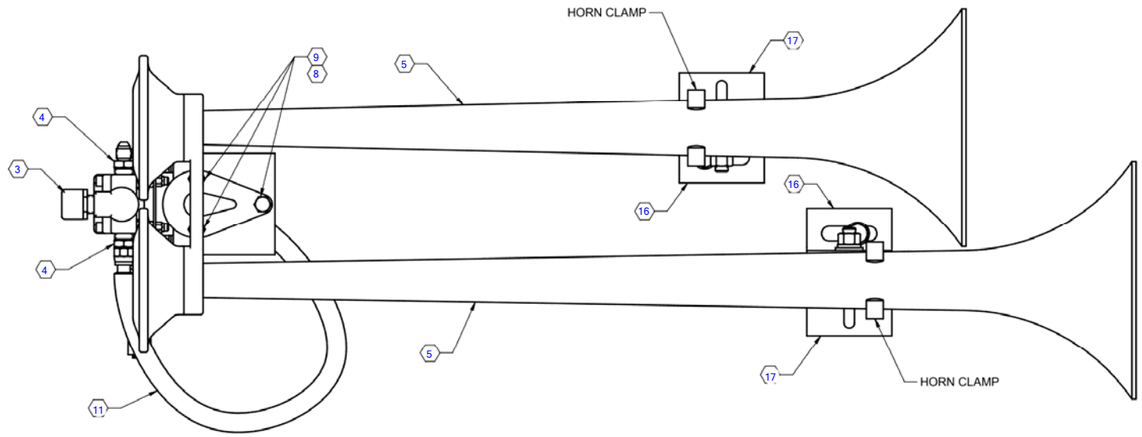
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

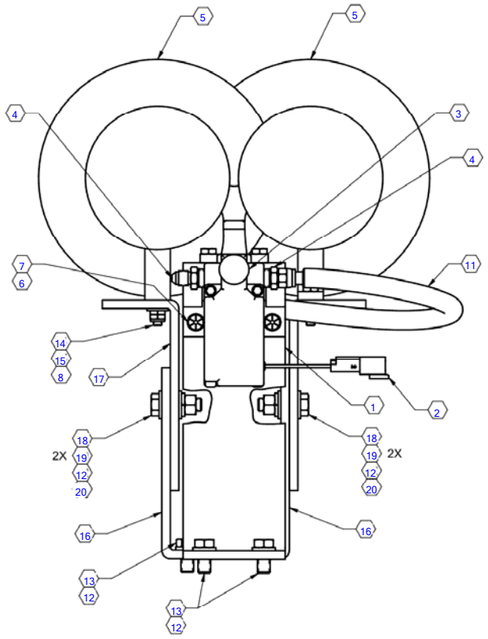
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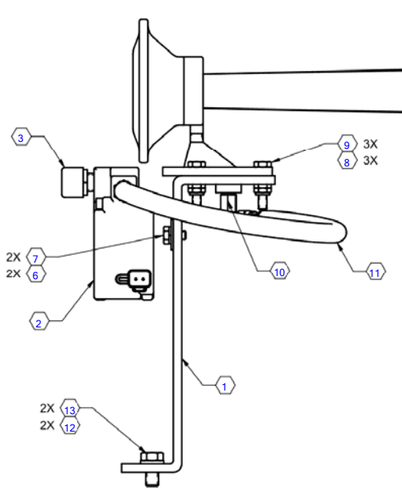
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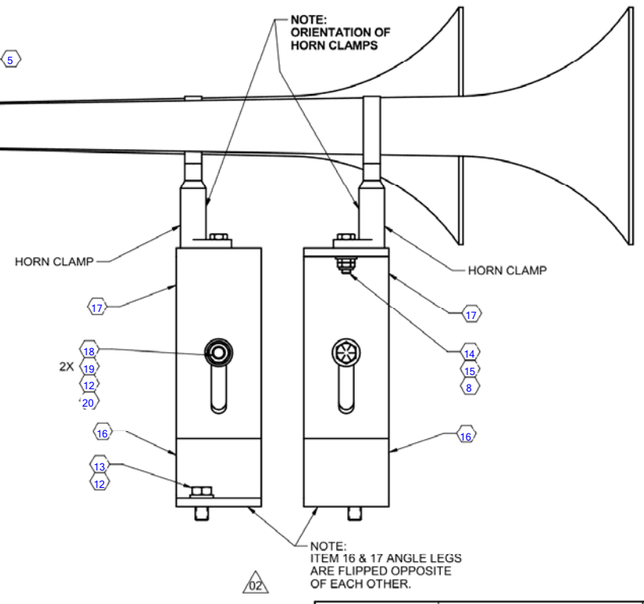
AIR HORN KIT

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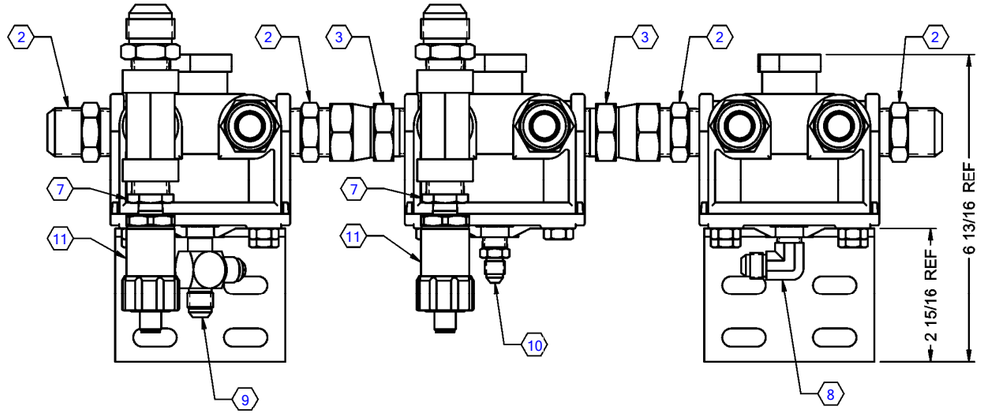
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

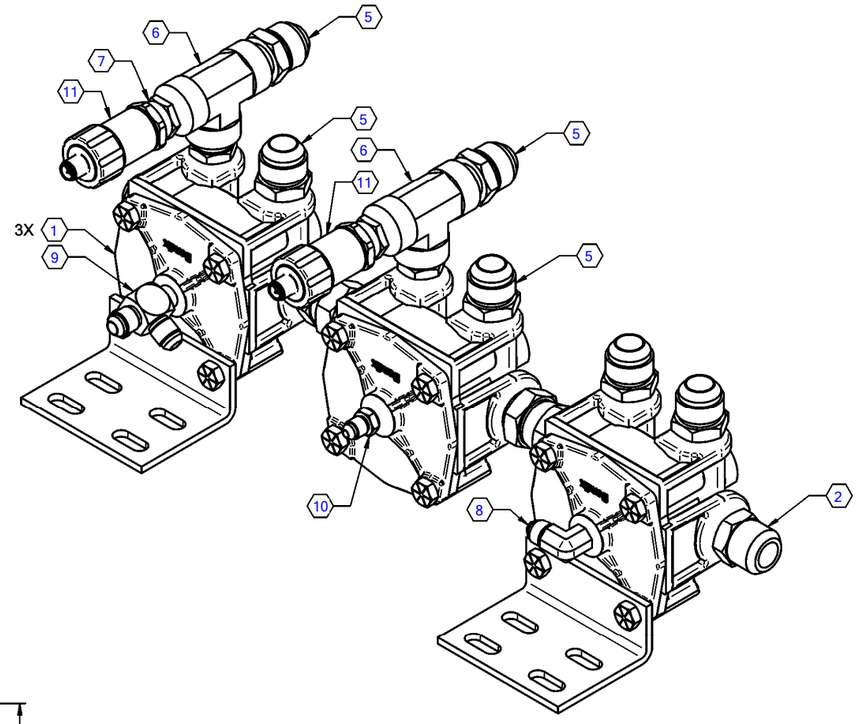
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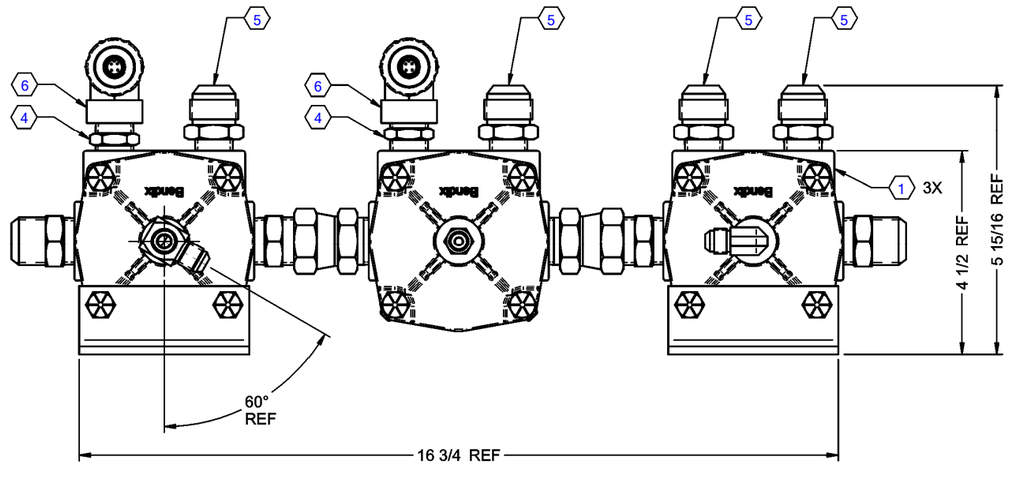
FRONT RELAY VALVE ASSEMBLY

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	01	ITEM 11 WAS 4255494	NL11-1727	11-1-11	TEW	AY	AY
B2	02	ITEM 11 WAS QTY (REF)	NL12-1557	5-7-12	JFM	BS	BS





1:2



NOTE:

EACH ITEM 1 IS SUPPLIED WITH MOUNT BRACKET, HOWEVER, ONLY TWO (2) ARE NEEDED AS SHOWN.

ITEM	PART NO.	QTY	DESCRIPTION
11	4255489	2	TRANSMITTER PRESS 0-200 PSIG
10	4016785	1	FTG HYD 0 4 MJ 4 MP
9	4043024	1	FTG HYD TE 6 MJ 4 MP 6 MJ
8	4002438	1	FTG HYD 90 6 MJ 4 MP
7	4013788	2	PIPE RED .500 .250 BSH 6000
6	4032316	2	PIPE TEE 1/2FPX1/2FPX1/2FP HYD
5	4015753	6	FTG HYD 0 12 MJ 8 MP JUMP
4	4032313	2	PIPE HYD NIP 8 MP 8 MP HX
3	4244753	2	FTG HYD 0 12 FJ 12 MP SWV
2	4002422	4	FTG HYD 0 12 MJ 12 MP
1	4256383	3	RELAY VALVE - ARCTIC - R12

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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 L18/2350 FXL

SIZE		DWG NO.	REV
C	SALE	4273465	02

SCALE 1/2 | EST WT 29.4 lbm | SHEET 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
	R4273465		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	R4002422	4	· ADAPTER, 3/4" MP X #12 MJ		
3	R4244753	2	· ADAPTER, 3/4" MP X #12 FJ - SWIVEL		
4	R4032313	2	· NIPPLE, PIPE - 1/2", HEX		
5	R4015753	6	· ADAPTER, 1/2" MP X #12 MJ		
6	R4032316	2	· TEE, 1/2" FP		
7	R4013788	2	· BUSHING, 1/4" FP X 1/2" MP		
8	R4002438	1	· ELBOW, 1/4" MP X 90 deg. X #6 MJ		
9	R4043024	1	· TEE, #6 MJ X 1/4" MP X #6 MJ		
10	R4016785	1	· ADAPTER, 1/4" MP X #4 MJ		
11	R4255489	2	· TRANSMITTER, PRESSURE - 0-200 PSI		
		REF	DRAWING, FRONT RELAY VALVE ASSEMBLY (R427346502)		

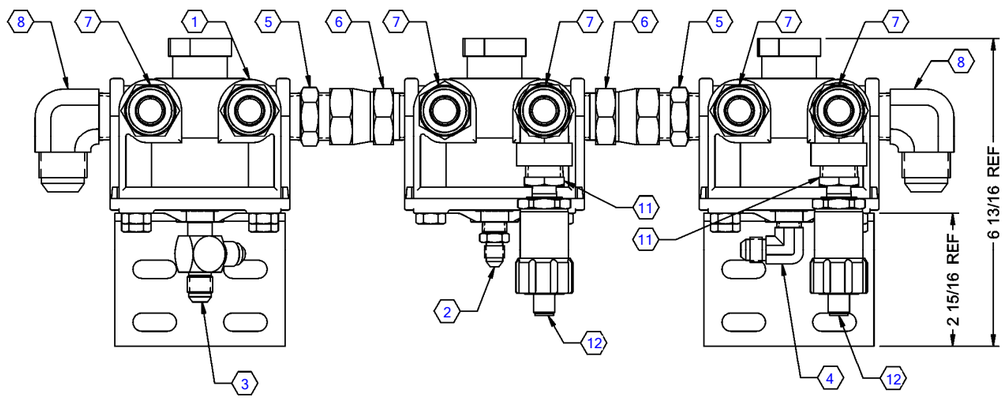
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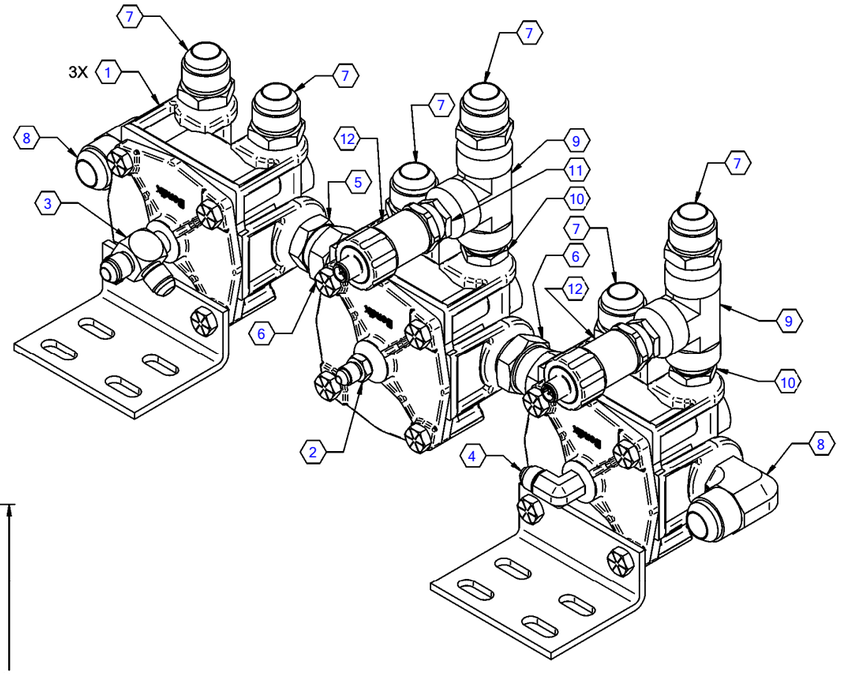
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

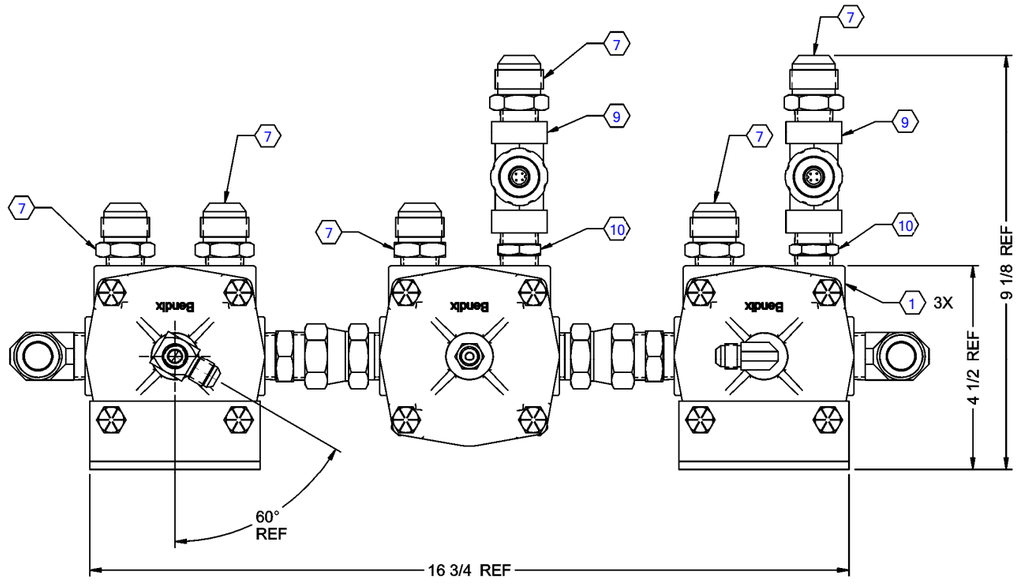
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REAR RELAY VALVE ASSEMBLY







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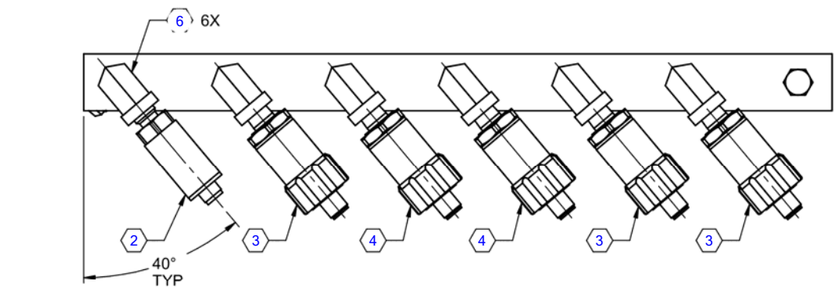
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

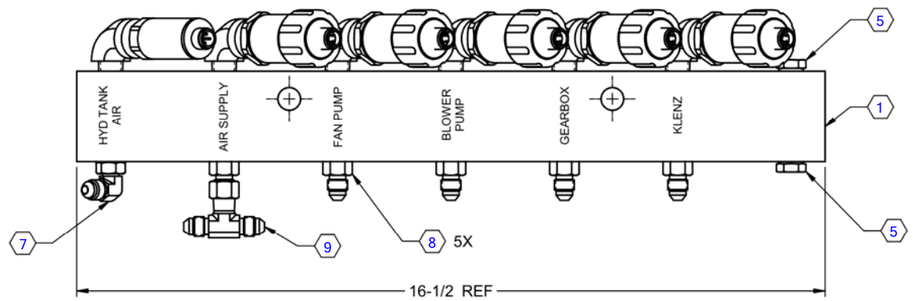
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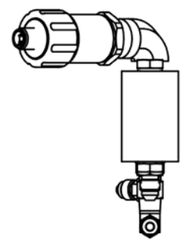
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REAR FRAME TRANSDUCER ASSEMBLY

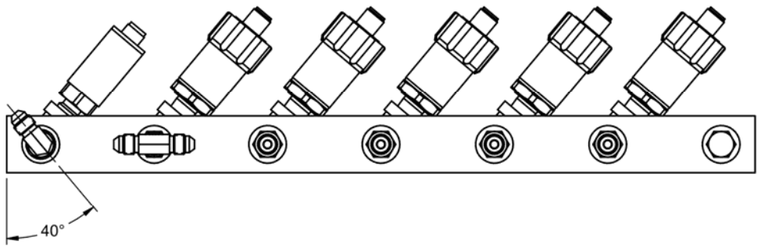
REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASED	NL12-2011	2-23-12	RRM	AY	AY
	01	ADDED ITEM 9 (TEE)	NL12-1591	7-16-12	JFM	AY	AY







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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- 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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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)		

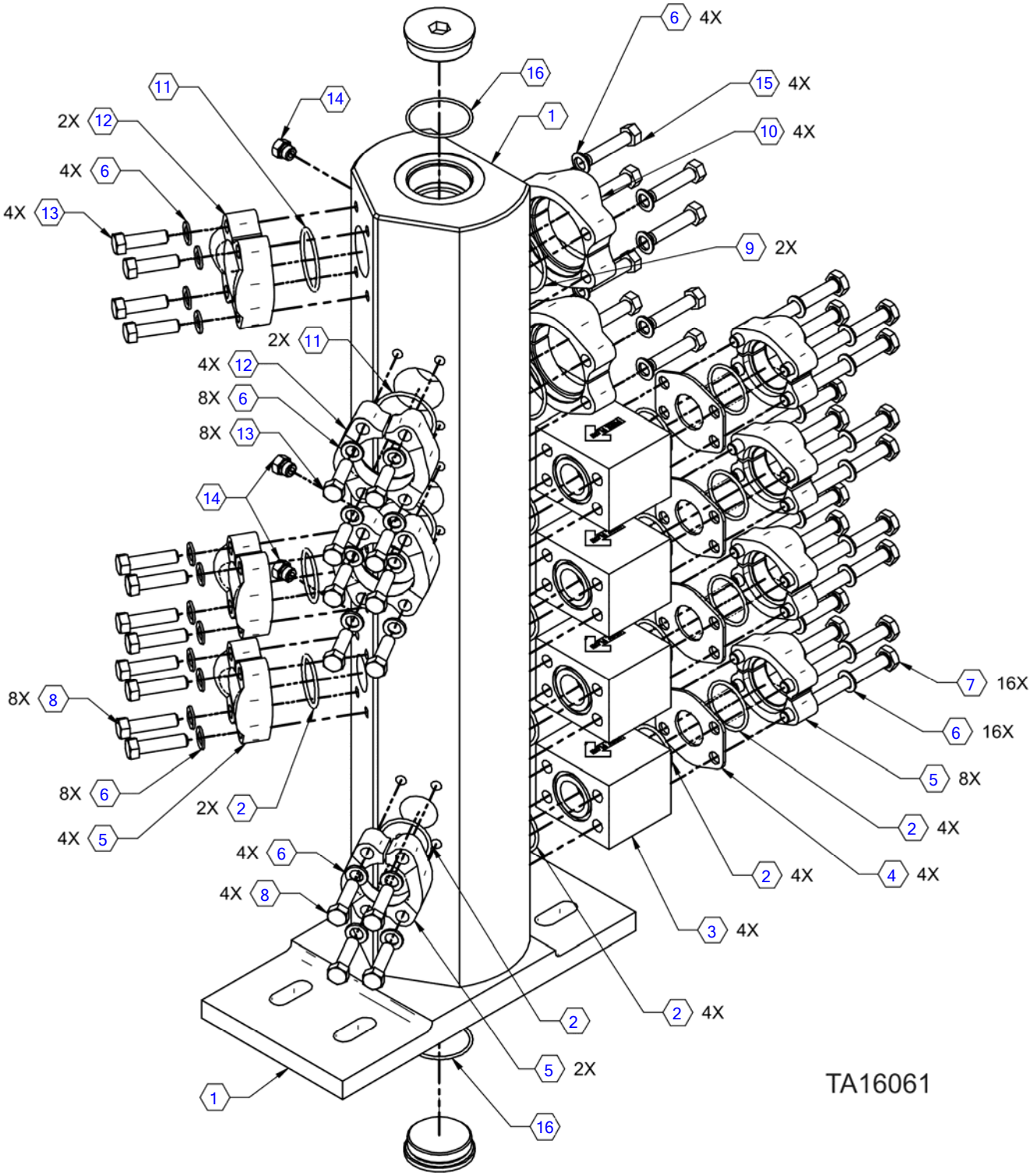
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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		
1	R4281664	1	· MANIFOLD BLOCK STRUCTURE - FRONT		
	R4241329	2	· · PLUG, #32 MO - HEX CSK.		
2	R4068358	15	· O-RING, 1-7/8" I.D. - POLYURETHANE		
3	R4133249	4	· VALVE, CHECK - 1-1/2" SF		
4	R4143664	4	· PLATE, CONNECTOR - 1-1/2"		
5	R4186401	14	· FLANGE HALF, 1-1/2"		
6	R4210349	48	· FLATWASHER, 1/2" - HARDENED		
7	R4009759	16	· BOLT, 1/2"-13 X 5-1/2"		
8	R0827222	12	· BOLT, 1/2"-13 X 2"		
9	R4116301	2	· O-RING, 2-3/4" I.D. - POLYURETHANE		
10	R4222106	4	· FLANGE HALF, 2-1/2"		
11	R4071255	3	· O-RING, 2-1/4" I.D. - POLYURETHANE		
12	R4186402	6	· FLANGE HALF, 2"		
13	R0824790	12	· BOLT, 1/2"-13 X 1-3/4"		
14	R4030061	3	· PLUG, #6 MO		
15	R0808488	8	· BOLT, 1/2"-13 X 2-1/4"		
16	R4133139	2	· O-RING, 2-5/16" I.D. - POLYURETHANE		
			DRAWING, FRONT FRAME PRESSURE AND RETURN MANIFOLD GROUP (R425262803)		

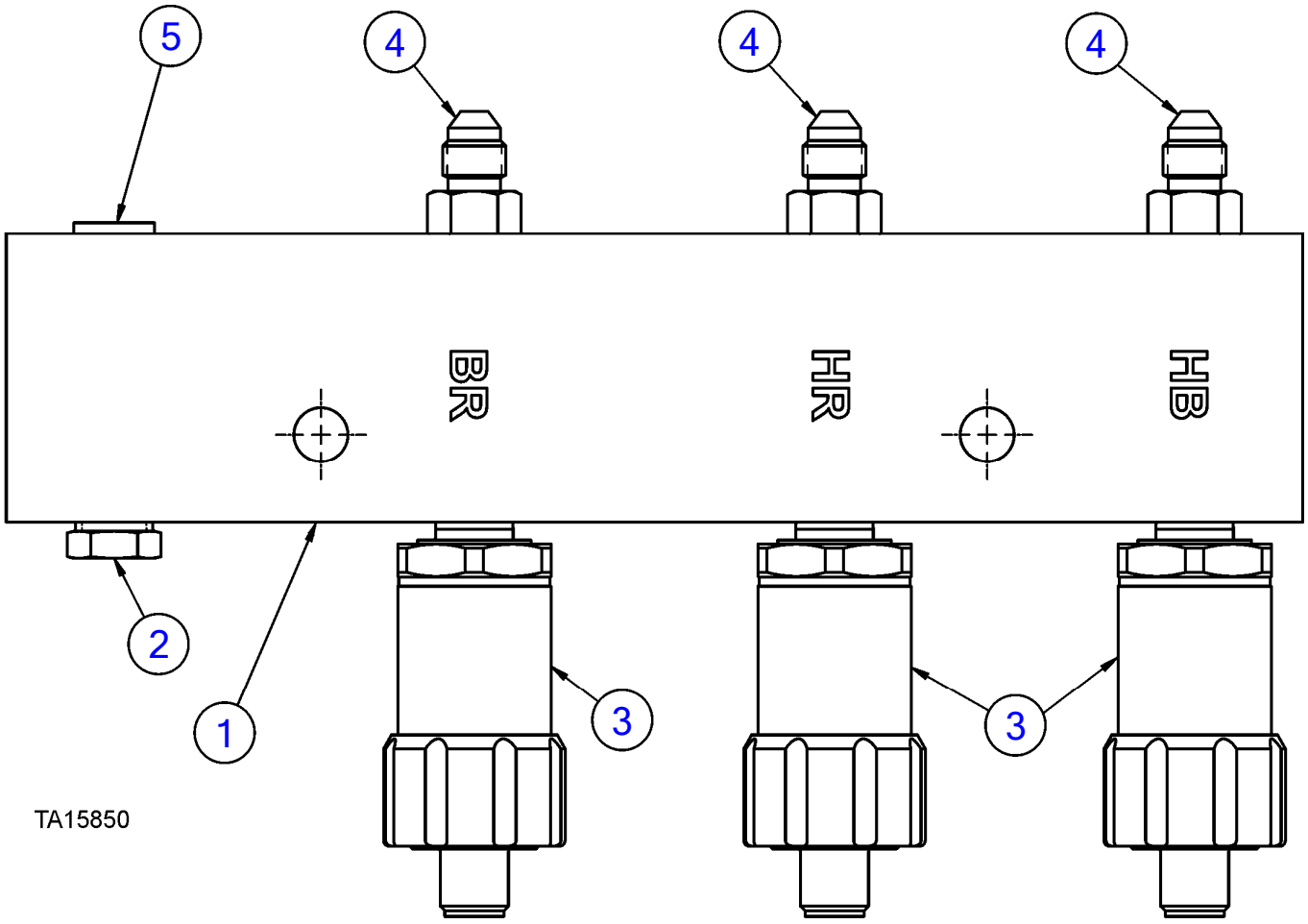
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CYLINDER PRESSURE TRANSDUCER ASSEMBLY



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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)		

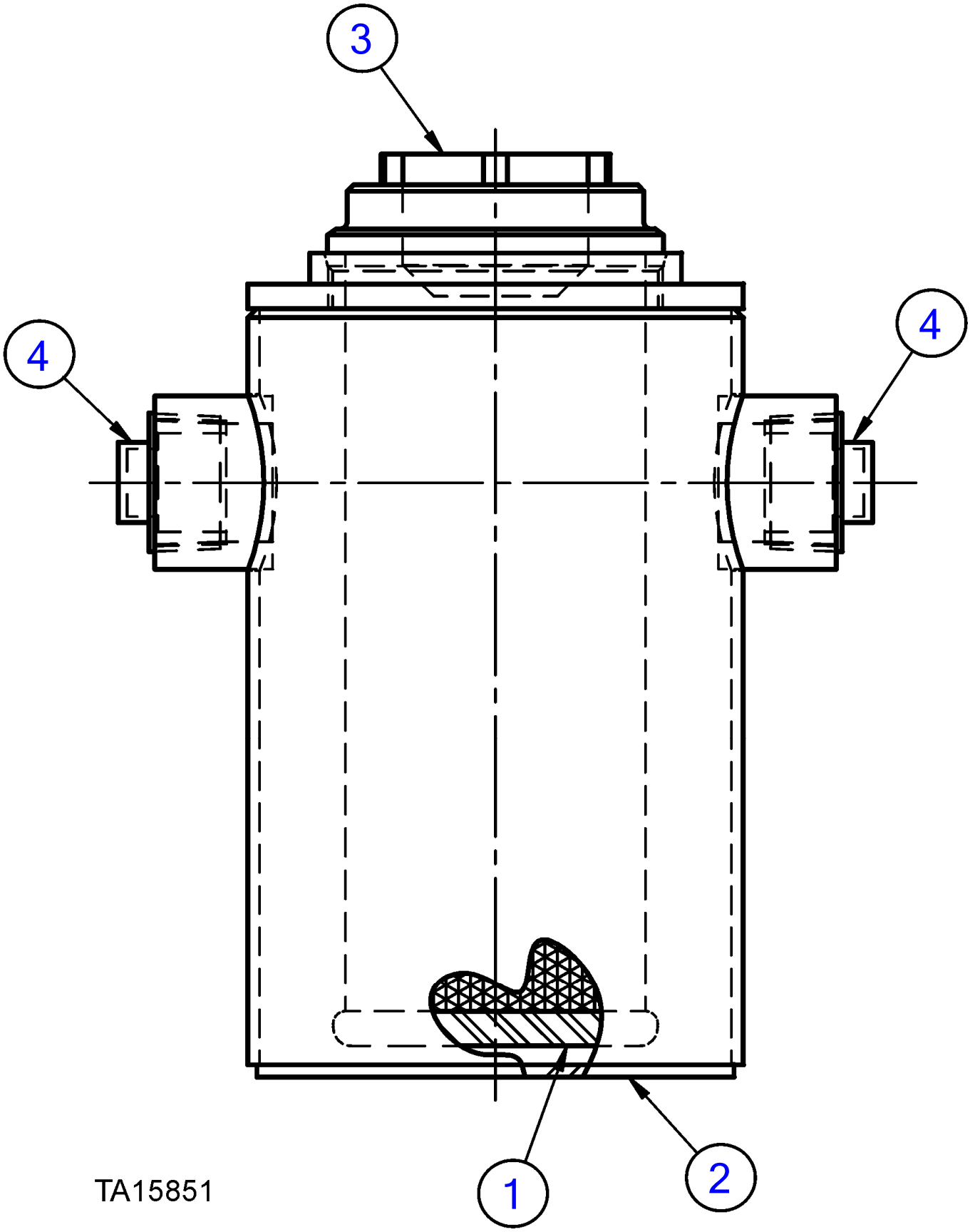
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SUCTION FILTER ASSEMBLY



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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)		

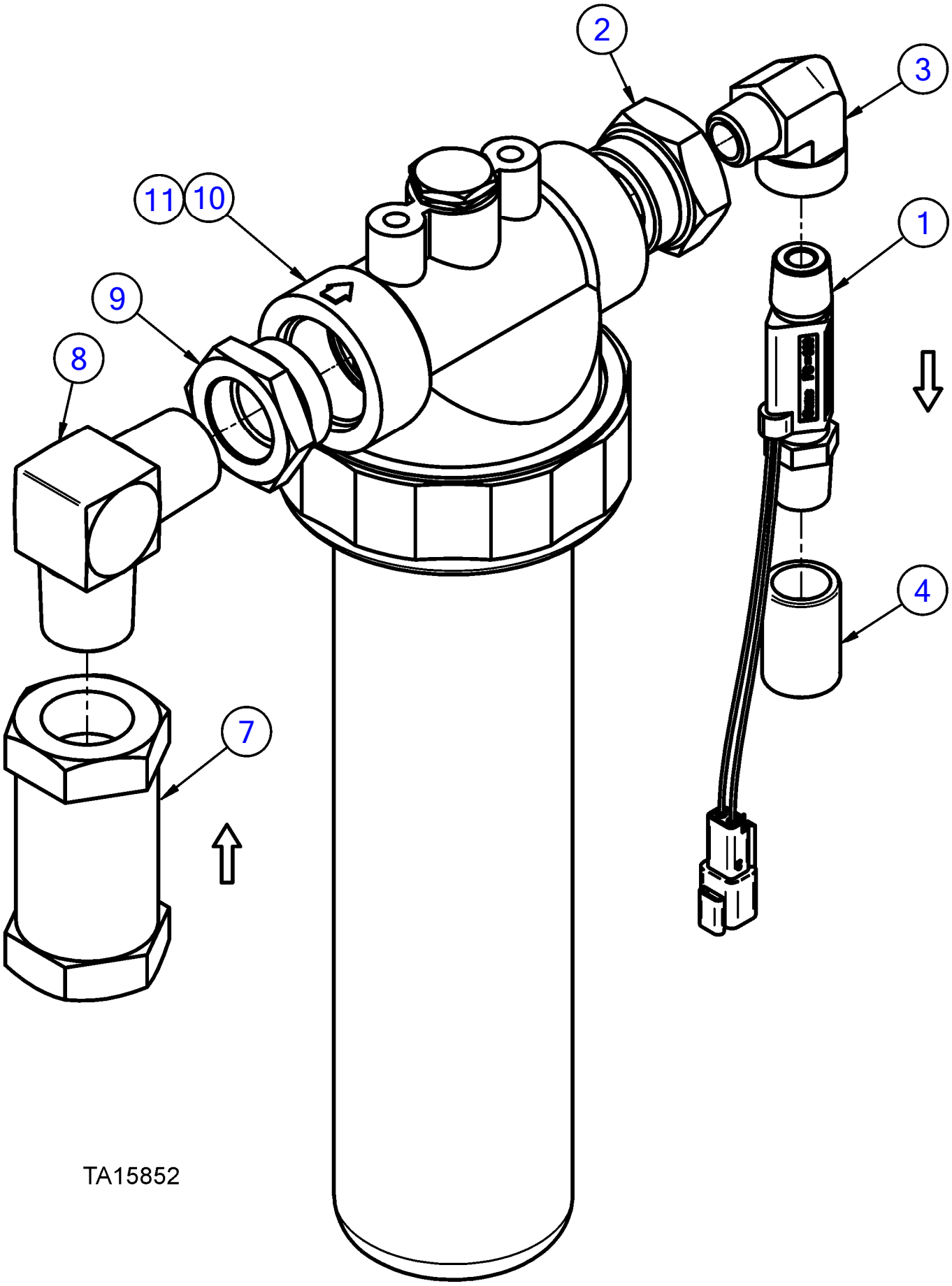
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DRIVER FILTER ASSEMBLY



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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
	R4270871		DRIVER FILTER ASSEMBLY		
1	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		
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	R0180841	1	· COUPLING, PIPE - 1/2"		
5	N.P.N.		· NOT USED		
6	N.P.N		· NOT USED		
7	R4213978	1	· VALVE, CHECK - 1" FP, .29 PSI		
8	R4244735	1	· ELBOW, 1" MP X 90 deg. X 1" MP		
9	R4244734	1	· ADAPTER, #20 MO X 1" FP		
10	R4244990	1	· FILTER ASSEMBLY, LOW PRESSURE		
11	R4244991	REF	· ELEMENT, FILTER		
			DRAWING, DRIVER FILTER ASSEMBLY (R427087105)		

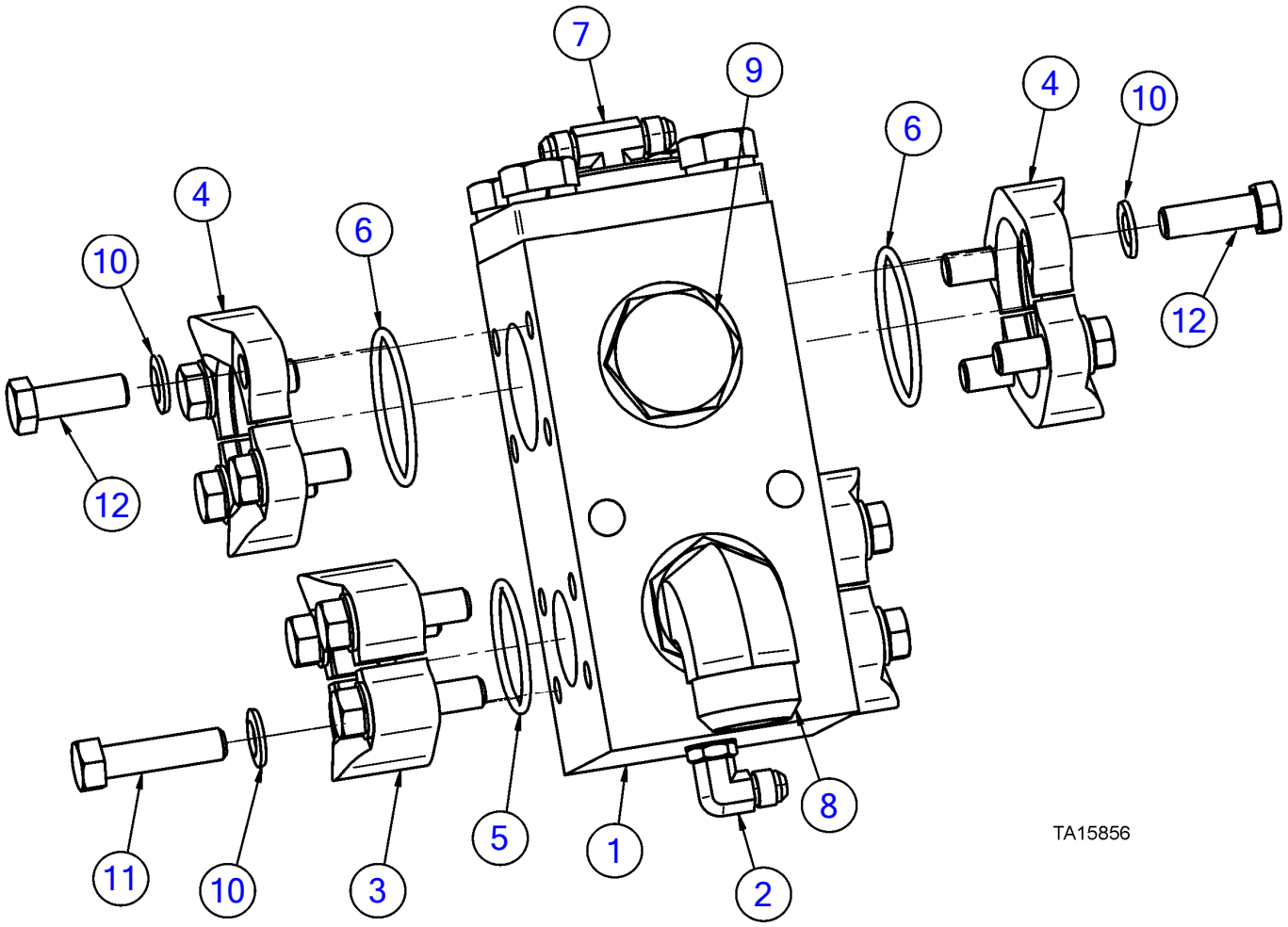
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OIL COOLER VALVE ASSEMBLY



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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)		

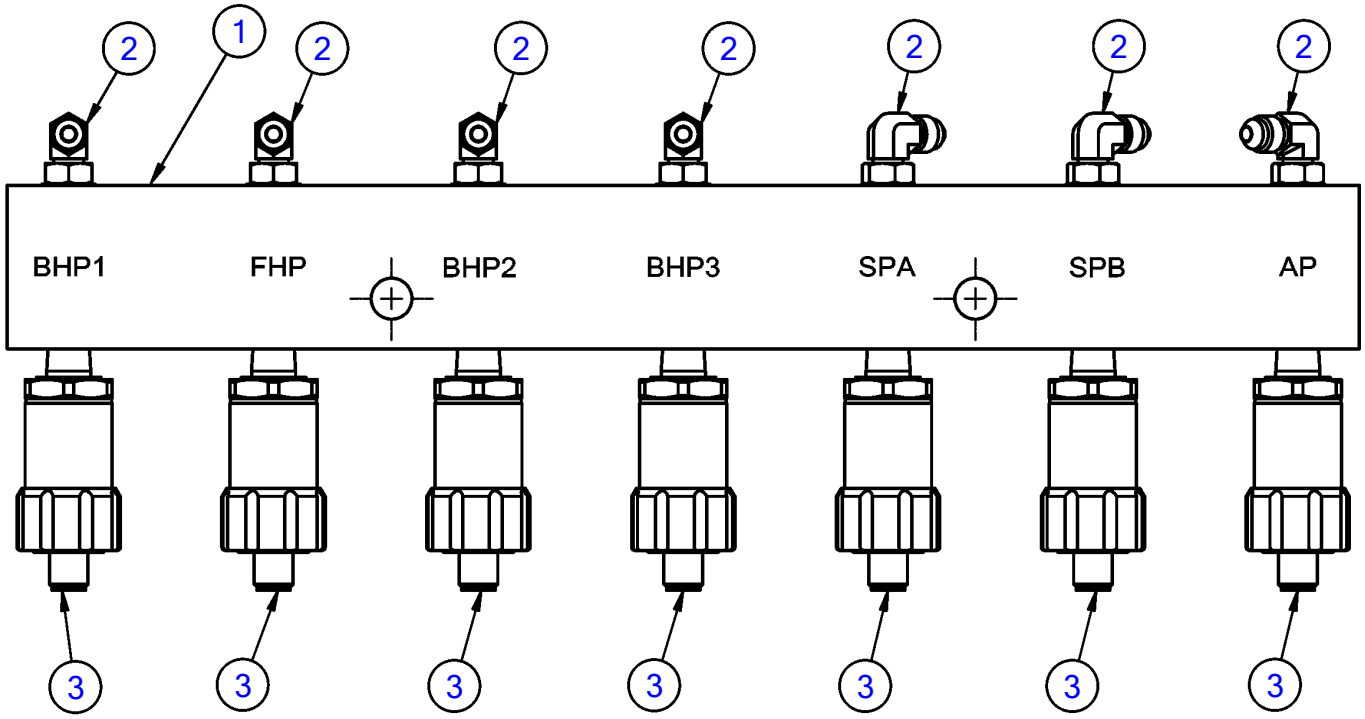
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PUMP PRESSURE TRANSDUCER ASSEMBLY



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PUMP PRESSURE TRANSDUCER ASSEMBLY

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PUMP PRESSURE TRANSDUCER ASSEMBLY

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)		

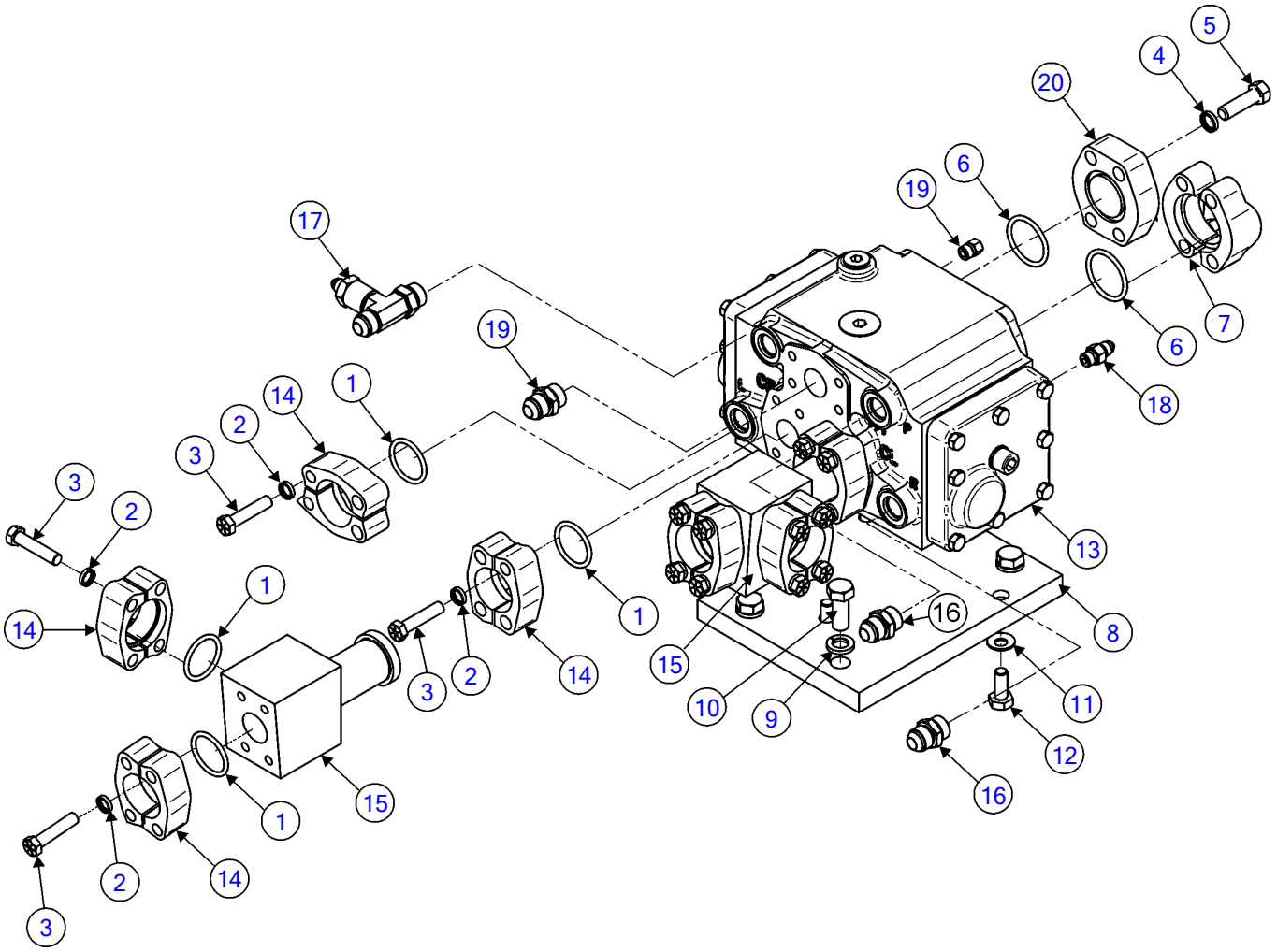
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STEERING VALVE SUB-ASSY



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STEERING VALVE SUB-ASSY

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

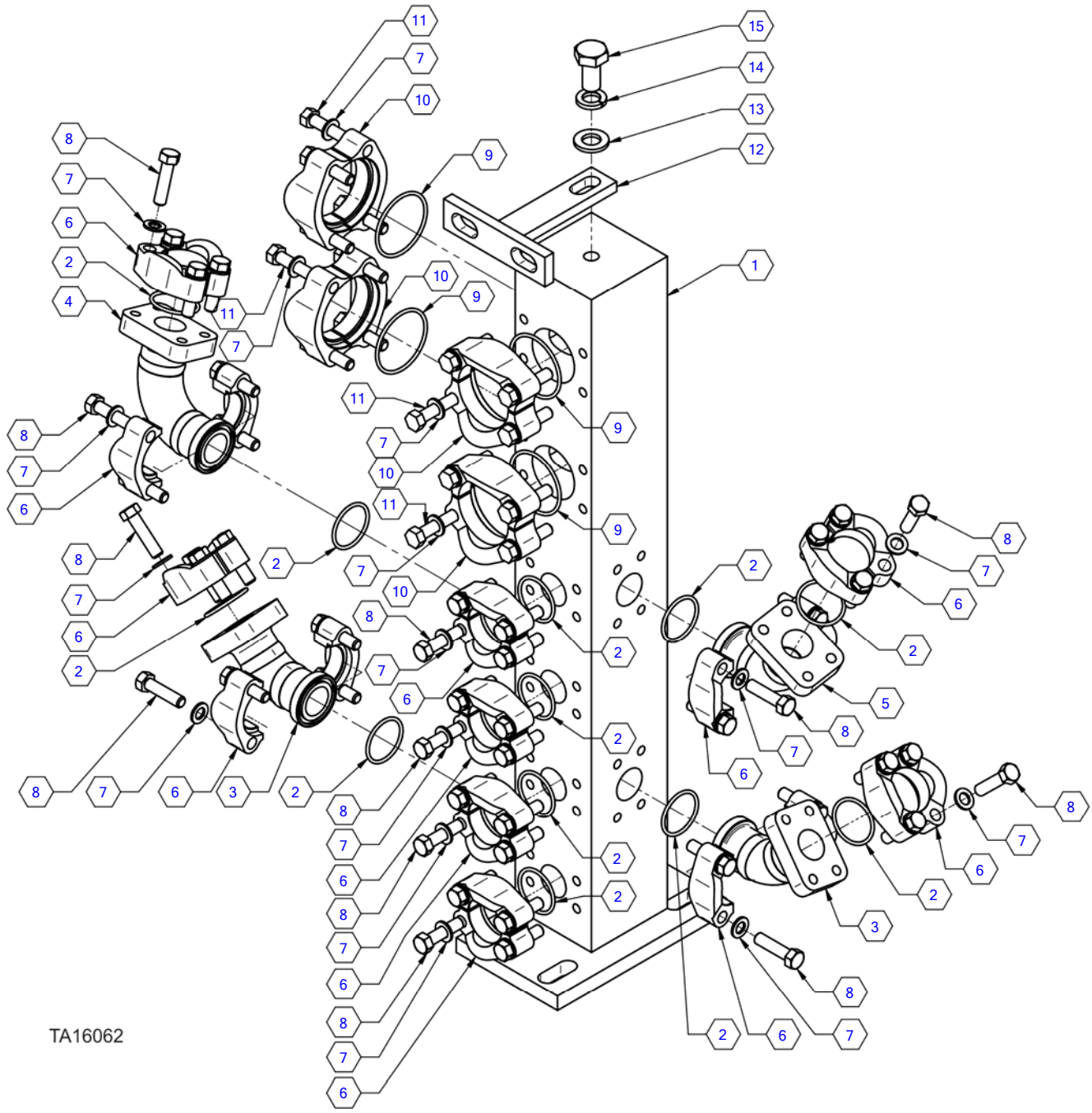
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REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP



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REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4252629		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	2	· 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		
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	R4009523	1	· BOLT, 3/4"-10 X 1-1/2"		
			DRAWING, REAR FRAME PRESSURE AND RETURN MANIFOLD GROUP (R425262901)		

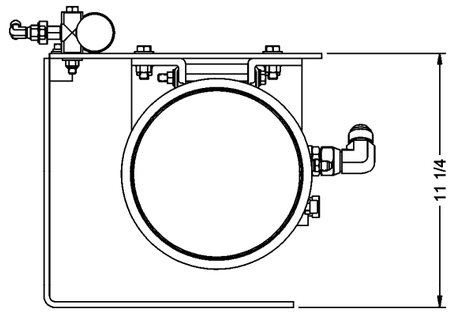
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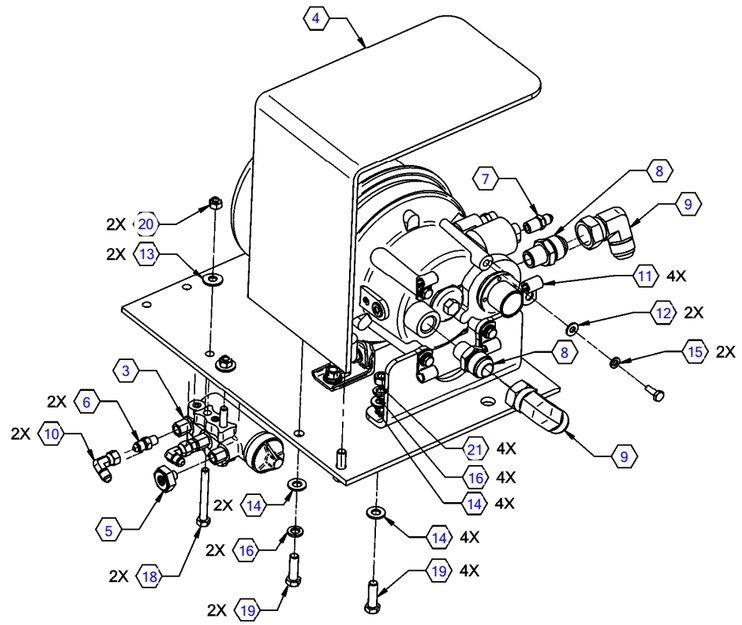
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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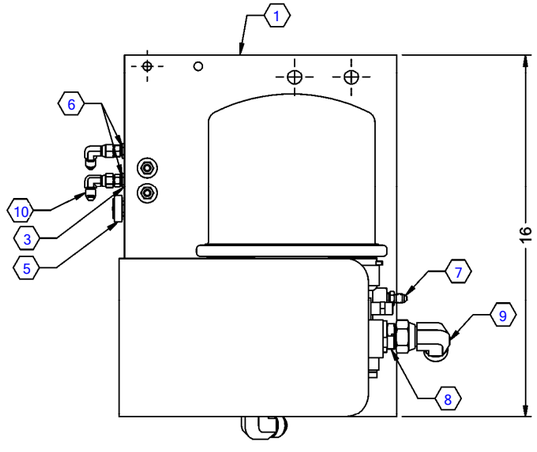
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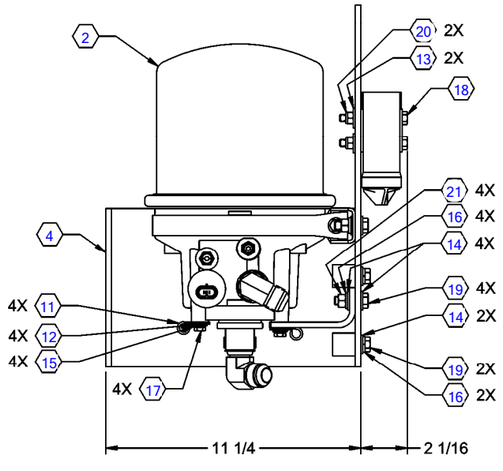
AIR DRYER & GOVERNOR ASSEMBLY





1:4





02

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

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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: 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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L-1850-2210 PARTS MANUAL
Miscellaneous

SECTION OR GROUP TITLE
TOOL GROUP
TOOL GROUP - OPTIONAL
LIFTING DEVICES
AUTO LUBE SYSTEM
AUTO LUBE GREASE RESERVOIR AND PUMP ASSEMBLY
COLD CLIMATE HEATING GROUP
240 VAC HEATERS BOX ASSEMBLY
STANDARD CLIMATE FLUIDS GROUP
AUXILIARY STEERING GROUP
BEACON LIGHT KIT - AMBER
FLUID SAMPLING KIT
CENTRAL SERVICE GROUP
AUXILIARY HYDRAULIC OIL COOLER
AUXILIARY HYDRAULIC OIL COOLER ASSEMBLY
LINCS SUPPORT GROUP
REAR VISION CAMERA SYSTEM KIT
DRIVER/MOTOR LIFTING DEVICE
COUNTERWEIGHT KIT
TRAINING SEAT ASSEMBLY AND MOUNT
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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 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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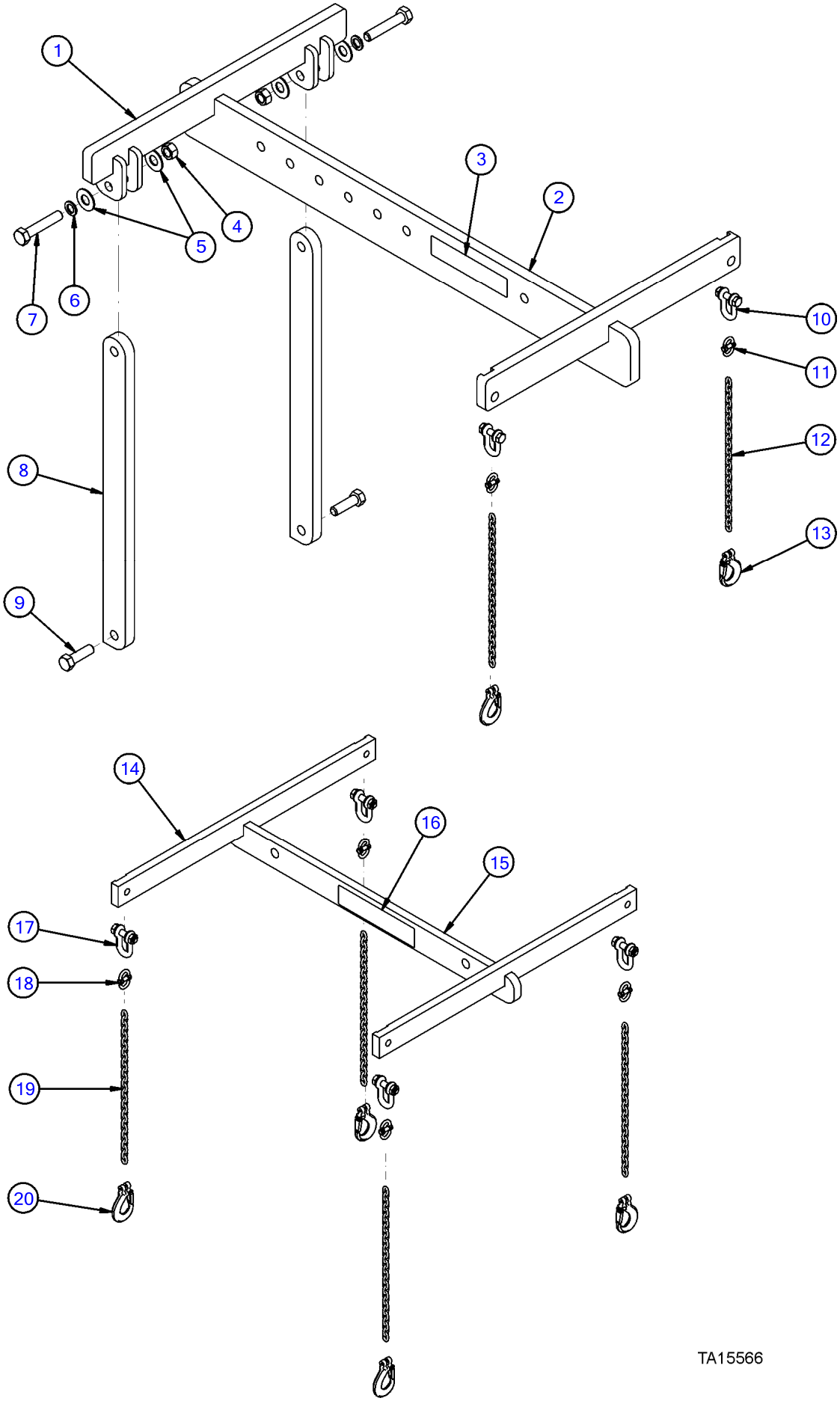
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274490		TOOL GROUP		7/5/17
1	R4009523	4	· BOLT, 3/4"-10 X 1-1/2"		
2	R4075801	2	· LIFTING EYE, 1"-14 X 1-1/2" X 1-1/2" EYE		
3	R4075803	4	· LIFTING EYE, 3/4"-16 X 1-1/2" X 1-1/2" EYE		
4	R4162114	1	· SOCKET, IMPACT - MODIFIED, 1" DRIVE X 1" 12 POINT SOCKET		
5	R4086118	1	· SOCKET, 1" DRIVE X 1-1/4" 12 POINT SOCKET		
6	R4116384	1	· LIFTING EYE PLATE, ROLL BAR		
7	R4123740	1	· OIL, GEAR - 5-GALLON PAIL, 75W 140 SYNTHETIC		
8	R4162332	1	· TEST FITTING ASSEMBLY, RELIEF VALVE		
9	R4078968	1	· · TEE, #8 MJ X #8 FJ X #8 MJ		
10	R4162330	1	· · REDUCER, 8-4 JIC		
11	R4231495	1	· TOOL, BUSHING REMOVAL - 7-1/4" O.D.		
12	R4231496	1	· TOOL, BUSHING REMOVAL - 4-7/8" O.D.		
13	R4118705	1	· GAUGE ASSEMBLY, 0-4000 PSI		
14	R4012921	1	· · COUPLING, PIPE - 1/4"		
15	R4016785	2	· · ADAPTER, 1/4" MP X #4 MJ		
16	R4041347	1	· · COUPLING, QUICK - FEMALE X 1/4" FP		
17	R4041349	1	· · PLUG, QUICK COUPLING		
18	R4116596	1	· · GAUGE, PRESSURE - 0-4000 PSI		
19	R4186438	1	· · HOSE ASSEMBLY, #4 X 224"		
20	R4236579	1	· TOOL, BUSHING REMOVAL - 8-5/8" O.D.		
21	R4274816	1	· TOOL, BUSHING REMOVAL - 10" O.D.		2/2/16
22	R4234752	1	· TOOL, 57 DRIVER MAIN PINION REMOVAL HUB, 9" O.D. X 2-1/2"		
23	R4234753	1	· TOOL, 57 DRIVER MAIN PINION REMOVAL ARM, 9" O.D. X 46-7/8"		
24	R4244801	1	· TEST BLOCK ASSEMBLY, HUSCO RELIEF		
25	R4223018	1	· · COUPLING ASSEMBLY, QUICK - MALE X #6 MO		
26	R4255524	1	· TOOL, SEAL INSTALLATION - POSITION INDICATOR		
27	R4244927	1	· TOOL, SEAL INSTALLATION - LOAD ADAPTER		
28	R4264864	1	· WRENCH, LOW PRESSURE FILTER ASSEMBLY		
29	R4217198	1	· 57 DRIVER/MOTOR LIFTING FIXTURE		
30	R4217146	2	· LIFTING DEVICE, LIFTARM - L-1350/L-1850/L-2350 ONLY		
31	R4274804	2	· LIFTING RING, SWIVEL - 1"-8		
32	R4254570	2	· STUD, 1-1/4"-7 X 12" - TORQUE WRENCH BACK-UP		
33	R4247807	1	· WRENCH, AIR COMPRESSOR HUB		10/25/12
34	R4252726	1	· SMALL O-RING KIT - 50 SERIES		7/5/17
35	R0828984	1	· · O-RING, .188 X 6.119, BUNA N - USE: FUEL SYSTEM		7/5/17
36	R4002280	4	· · O-RING, .078 X .47, BUNA N - USE: FOR R4219191 TEST BLOCK ADAPTER		7/5/17
37	R4002282	4	· · O-RING, .097 X .76, BUNA N - USE: FOR R4219191 TEST BLOCK ADAPTER		7/5/17
38	R4068357	25	· · SEAL, SPLIT FLANGE #20 1.25, POLYURETHANE - REPLACES R4222170 - USE: FLUID POWER GROUP		7/5/17
39	R4068358	50	· · SEAL, SPLIT FLANGE #24 1.5, POLYURETHANE - REPLACES R4222171 - USE: FLUID POWER GROUP		7/5/17
40	R4068830	8	· · O-RING, .139 4.98, VITON - REPLACES R4147284 - USE: FLUID POWER GROUP & GEARBOX		7/5/17
41	R4071255	50	· · SEAL, SPLIT FLANGE #32 2.0, POLYURETHANE - REPLACES R4222172 - USE: FLUID POWER GROUP		7/5/17
42	R4105004	5	· · O-RING, .139 .98, POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
43	R4105005	20	· · SEAL, SPLIT FLANGE #16 1.0, POLYURETHANE - REPLACES R4222169 - USE: FLUID POWER GROUP		7/5/17
44	R4116301	30	· · O-RING, SPLIT FLANGE #40 2-1/2 SAE, POLYURETHANE - USE: FLUID POWER GROUP		7/5/17

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
45	R4123584	4	· · QUAD RING SEAL, .139 X 3.359" I.D., BUNA N - USE: FLUID POWER GROUP		7/5/17
46	R4123585	4	· · QUAD RING SEAL, .139 X 3.859" I.D., BUNA N - USE: FLUID POWER GROUP		7/5/17
47	R4123586	4	· · QUAD RING SEAL, .139 X 4.359" I.D., BUNA N - USE: FLUID POWER GROUP and oil cooler		7/5/17
48	R4131587	2	· · O-RING, .139 1.73, POLYURETHANE - USE: STEERING JUNCTION VALVE		7/5/17
49	R4133132	4	· · O-RING, 3/8" SAE BOSS, POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
50	R4133133	2	· · O-RING, .087 .64, POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
51	R4154858	8	· · O-RING, .139 2.63, POLYURETHANE - REPLACES R4222476 - USE: OIL COOLER CONTROL VALVE		7/5/17
52	R4243926	4	· · O-RING, .103 3.237, POLYURETHANE - USE: SUCTION FILTER		7/5/17
53	R4244637	9	· · O-RING, .139 6.48, VITON - REPLACES R4237599 - USE: FLUID POWER GROUP & GEARBOX		7/5/17
54	R4244771	1	· · O-RING, .139 3.23, VITON - REPLACES R4102824 - USE: FLUID POWER GROUP		7/5/17
55	R4244772	8	· · O-RING, .139 5.98, VITON - REPLACES R4181235 - USE: FLUID POWER GROUP & GEARBOX		7/5/17
56	R4247845	1	· · O-RING, .070 .3489, BUNA N - USE: POSITION INDICATOR ASSEMBLY		7/5/17
57	R4247863	2	· · O-RING, .070 1.05, BUNA N - USE: FUEL SYSTEM		7/5/17
58	R4247879	2	· · O-RING, .070 .489, BUNA N - USE: POSITION INDICATOR ASSEMBLY		7/5/17
59	R4257212	2	· · O-RING, .139 3.98, VITON - REPLACES R4110761 - USE: FLUID POWER GROUP		7/5/17
60	R4267979	2	· · O-RING, 1-1/4" I.D. - POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
61	R4268035	1	· · O-RING, .103 2.11 - POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
62	R4268036	1	· · O-RING, .103 1.74 - POLYURETHANE - USE: FLUID POWER GROUP		7/5/17
	R0459294	REF	LOCTITE ANTI-SEIZE LUBE, 1 LB		
	R4123626	REF	LUBE, MOLY SPRAY		
	R4241662	REF	PRESS STRUCTURE, HYDRAULIC BRAKE		
	R4241656	REF	CYLINDER, PORTA POWER - 10 TON, 10" STROKE		
	R4264953	REF	ULTRASONIC LEAK DETECTOR		
	R4216205	REF	GREASE, UNIREX - 14 OZ. CARTRIDGE		
	R4234048	REF	GREASE GUN		

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TOOL GROUP - OPTIONAL



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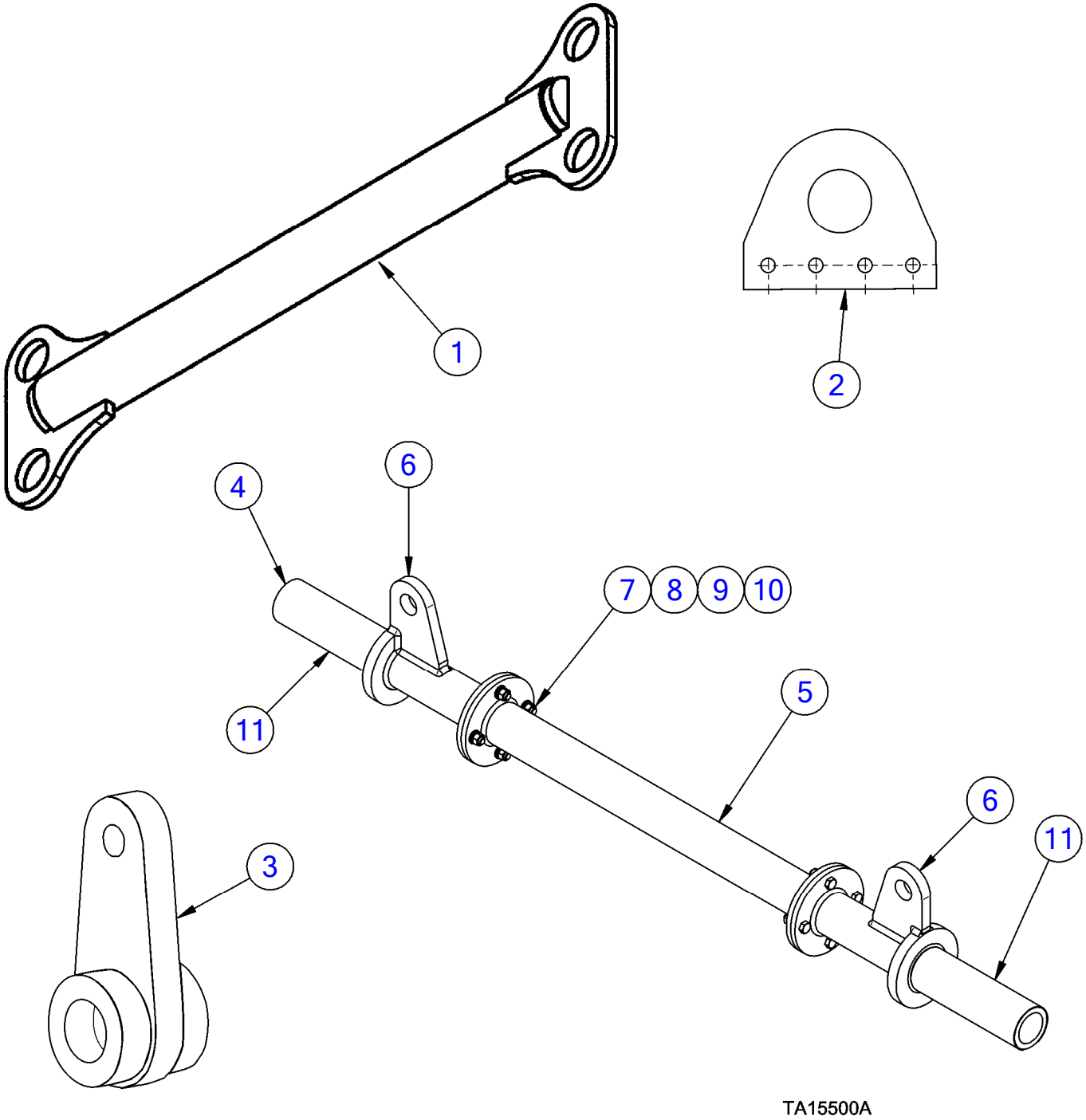
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4272123		TOOL GROUP - OPTIONAL		5/4/15
1	R4272119	1	· POWER UNIT TRANSPORT ASSEMBLY, DD - 16V4000		
2	R4272118	1	· · POWER UNIT TRANSPORT STRUCTURE		
3	R4272116	1	· · LABEL, SAFETY - POWER UNIT TRANSPORT		
4	R0025784	2	· · NUT, 1-1/2"-6		
5	R0720028	4	· · FLATWASHER, 1-1/2"		
6	R0025776	2	· · LOCKWASHER, 1-1/2"		
7	R4066034	2	· · BOLT, 1-1/2"-6 X 8"		
8	R4272117	2	· · ARM, POWER UNIT TRANSPORT		
9	R4009609	2	· · BOLT, 1-1/2"-6 X 5"		
10	R4238075	2	· · SHACKLE, CHAIN - WITH 7/8" BOLT		
11	R4238076	2	· · LINK, CONNECTING		
12	R4238077	2	· · CHAIN, 30"		
13	R4238078	2	· · HOOK		
14	R4233198	1	· ENGINE LIFTING ASSEMBLY, DD - 16V4000		
15	R4233199	1	· · ENGINE LIFT STRUCTURE		
16	R4242781	1	· · LABEL, SAFETY - ENGINE LIFTING ASSEMBLY		
17	R4238075	4	· · SHACKLE, CHAIN - WITH 7/8" BOLT		
18	R4238076	4	· · LINK, CONNECTING		
19	R4238077	4	· · CHAIN, 30"		
20	R4238078	4	· · HOOK		
NS	R4213898	1	· ENGINE BARRING DEVICE		5/4/15

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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

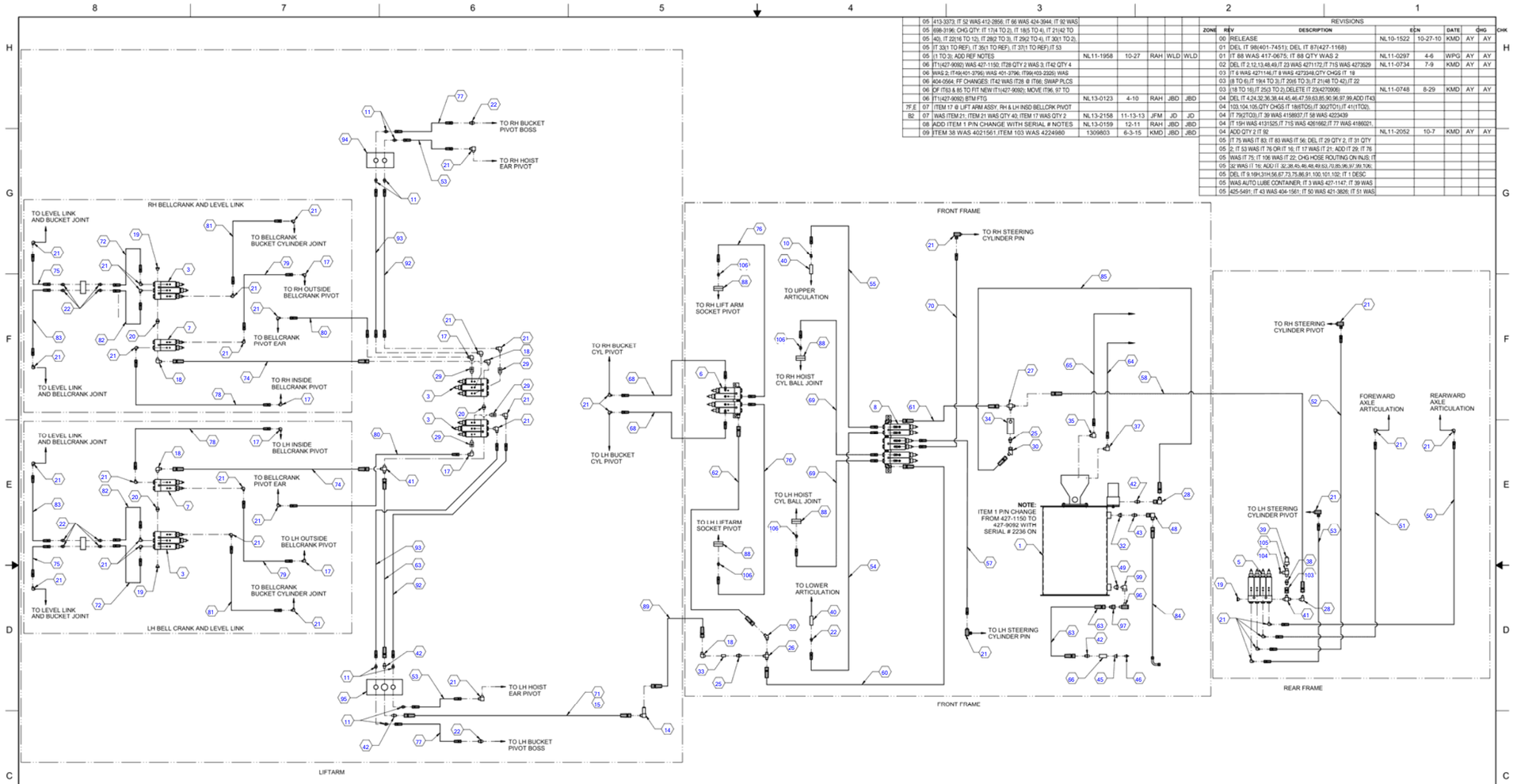
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AUTO LUBE SYSTEM



ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK
	00	RELEASE	NL19-1522	10-27-10	KMD	AY	AY
	01	DEL IT 98(401-7451); DEL IT 87(427-1168)					
	01	IT 88 WAS 417-0675; IT 88 QTY WAS 2	NL11-0297	4-6	WPG	AY	AY
	02	DEL IT 2,12,13,48,49,IT 23 WAS 427112;IT 71S WAS 427262	NL11-0734	7-9	KMD	AY	AY
	03	IT 6 WAS 427114;,IT 8 WAS 427324;8 QTY CHGS;IT 18					
	03	18 TO 16;IT 19\4 TO 3\,IT 20\6 TO 3\,IT 21\48 TO 42\,IT 22					
	03	18 TO 16;IT 25\3 TO 2\,DELETE IT 23(4270906)	NL11-0748	8-29	KMD	AY	AY
	04	DEL IT 4,24,32,36,38,44,45,46,47,59,63,85,90,96,97,99;ADD IT43;					
	04	103,104,105,QTY CHGS IT 18(6TO5),IT 30(2TO1),IT 41(1TO2),					
	04	IT 79(2TO3),IT 39 WAS 4158937,IT 58 WAS 4223439					
	04	IT 15H WAS 4131525,IT 71S WAS 4261662,IT 77 WAS 4186021,					
	04	ADD QTY 2 IT 92	NL11-2052	10-7	KMD	AY	AY
	05	IT 75 WAS IT 83; IT 83 WAS IT 56; DEL IT 29 QTY 2, IT 31 QTY					
	05	2\, IT 53 WAS IT 76 OR IT 16, IT 17 WAS IT 21; ADD IT 29; IT 76					
	05	WAS IT 75; IT 106 WAS IT 22; CHG HOSE ROUTING ON INJS; IT					
	05	58\ WAS IT 16; ADD IT 32,38,40,46,48,49,53,70,85,96,97,99,106;					
	05	DEL IT 9,16H,31H,56,67,73,75,86,91,100,101,102; IT 1 DESC					
	05	WAS AUTO LUBE CONTAINER; IT 3 WAS 427-1147; IT 39 WAS					
	05	425-5491; IT 43 WAS 404-1561; IT 50 WAS 421-3826; IT 51 WAS					

NOTES:

1. BOM FOR REFERENCE ONLY
2. ITEMS WITH AN S OR H CORRESPOND TO STANDARD OR HIGH LIFT LOADERS RESPECTIVELY
3. REF 427-4746 FOR L1850 G2 STD LIFTARM HOSE INSTALLATION
4. REF 427-4747 FOR L1850 G2 STD LIFTARM INJECTOR AND HARDWARE INSTALLATION
5. REF 427-4748 FOR L1850 G2 HIGH / L2350 G2 STD LIFTARM HOSE INSTALLATION
6. REF 427-4749 FOR L1850 G2 HIGH / L2350 G2 STD LIFTARM INJECTOR AND HARDWARE INSTALLATION
7. REF 427-4750 FOR L1850 G2 FRONT FRAME HOSE INSTALLATION
8. REF 427-4751 FOR L1850 G2 FRONT FRAME INJECTOR AND HARDWARE INSTALLATION GREASE RESV-PUMP P/N CHANGE FROM 427-1150 TO 427-9092 WITH SERIAL # 2236 ON
9. REF 427-4752 FOR L1850 G2 REAR FRAME HOSE INSTALLATION
10. REF 427-4753 FOR L1850 G2 REAR FRAME INJECTOR AND HARDWARE INSTALLATION

ITEM	PART NO.	QTY	DESCRIPTION
106	401-6785	4	FTG HYD 0 4 MJ 4 MP
105	403-1446	1	FTG HYD TE 4 FP 4 FP 4 FP
104	401-3779	1	PIPE PLUG 1/4 NPT HX HD
103	424-4980	1	FTG HYD 0 8 FJ 8 FJ SWV
102	-		
101	-		
100	-		
99	403-2325	1	PIPE HYD ST ELB 90 8 MP 8 FP
98	-		
97	422-2474	1	FTG HYD 0 8 MP 8 FP
96	422-2441	1	FILTER LUBRICATOR #84004
95	421-1962	REF	GREASE BLOCK, 3 WAY
94	421-1961	REF	GREASE BLOCK, 2 WAY
93	418-6021	2	HOSE 5000 4 37.0 0J 0J

ITEM	PART NO.	QTY	DESCRIPTION
92	424-3746	2	HOSE 5000 4 40.0 0J 0J
91	-		
90	-		
89	412-9036	1	HOSE 4250 8 84.0 0J 0J
88	417-0674	4	PLUG ASSEMBLY, 3"
86	-		
85	412-9012	1	HOSE 4250 8 36.0 0J 0J
84	422-2463	1	HOSE 1250 12 60.0 0J 90J
83	412-2857	2	HOSE 5000 4 54.0 0J 0J
82	422-3118	2	HOSE 5000 4 94.0 0J 0J
81	697-1718	2	HOSE 5000 4 58.0 0J 0J
80	421-3531	2	HOSE 5000 4 136.0 0J 0J
79	414-8824	3	HOSE 5000 4 100.0 0J 0J
78	413-0284	2	HOSE 5000 4 29.0 0J 0J
77S&H	414-8823	2	HOSE 5000 4 84.0 0J 0J
76	412-2873	2	HOSE 5000 4 68.0 0J 0J
75	-		
74	412-9045	2	HOSE 4250 8 102.0 0J 0J
73	-		
72	415-0738	2	HOSE 5000 4 93.0 0J 0J
71S	412-9045	1	HOSE 4250 8 102.0 0J 0J
70	414-8824	1	HOSE 5000 4 100.0 0J 0J
69	415-0749	2	HOSE 5000 4 130.0 0J 0J
68	419-3532	2	HOSE 5000 4 85.0 0J 0J
67	-		
66	401-7451	REF	COUPLING PIPE 6000 .500
65	424-3915	REF	HOSE 4000 6 188.0 0J 0J
64	424-3740	REF	HOSE 2250 6 130.0 0J 0J
63	412-2863	2	HOSE 4250 8 33.0 0J 0J
62	415-0768	1	HOSE 4250 8 54.0 0J 0J
61	412-9020	1	HOSE 4250 8 52.0 0J 0J
60	412-9028	1	HOSE 4250 8 68.0 0J 0J
59	-		
58	416-9642	REF	HOSE 4250 8 295.0 0J 0J
57	412-2872	1	HOSE 5000 4 70.0 0J 0J
56	-		
55	418-6085	2	HOSE 5000 4 154.0 0J 0J

ITEM	PART NO.	QTY	DESCRIPTION
54	415-0735	1	HOSE 5000 4 80.0 0J 0J
53	698-3192	3	HOSE 5000 4 90.0 0J 0J
52	413-3373	1	HOSE 5000 4 120.0 0J 0J
51	418-6085	1	HOSE 5000 4 154.0 0J 0J
50	417-2340	1	HOSE 5000 4 253.0 0J 0J
49	401-3795	1	PIPE RED 1.00 .500 BSH 6000
48	400-2481	1	FTG HYD 90 12 MJ 12 FJ SWVL
47	-		
46	002-0315	1	GREASE FITTING 1/8 X 11/16
45	422-2475	1	PIPE RED .500 .125 BSH 6000
44	-		
43	404-0561	1	FTG HYD 0 12 MJ 16 MP
42	401-8666	4	STRAIGHT ADAPTER, 1/2 MJ X 1/2 MP
41	403-8695	2	FTG HYD TEE 8 MJ X 6 MP X 8 MJ
40	417-0615	2	TUBE, EXTENSION
39	425-5496	1	TRANSMITTER PRESS 0-5000 PSIG
38	402-1571	1	ADAPTER, 1/4 MP X 1/2 MJ
37	400-2470	REF	FTG HYD 90° 3/8 MJ X 3/8 MO
36	-		
35	411-6644	REF	90°ELBOW 3/8 MJ X 1/4 MO
34	408-6102	REF	GREASE BLOCK - 3/8
33	401-7453	REF	PIPE COUPLING, 3/8 FP
32	401-3799	1	PIPE BUSHING 1.250 1.000 6000
31	-		
30	401-6199	2	45°ELBOW,SWIVEL 1/2 MJ X 1/2 FJ
29	403-7689	4	90°ELBOW BODY,1/8 MP X 1/8 FP
28	400-2479	2	90°ELBOW,SWIVEL 1/2 MJ X 1/2 FJ
27	403-8894	1	TEE,1/2 MJ X 1/2 MJ X 3/8 MP
26	404-1768	1	TEE,SWIVEL 1/2 MJ X 1/2 MJ X 1/2 FJ
25	400-2420	2	STRAIGHT ADAPTER,1/2 MJ X 3/8 MP
24	-		
23	-		
22	097-8632	12	STRAIGHT ADAPTER,1/4 MJ X 1/8 MP
21	097-9138	36	90°ADAPTER,1/4 MJ X 1/8 MP
20	403-2312	3	HYDRAULIC NIPPLE, 3/8
19	008-8402	3	PLUG,PIPE CS HX 3/8 MP
18	400-2439	4	90°ADAPTER,1/2 MJ X 3/8 MP
17	407-8933	6	90°ADAPTER,1/4 MJ X 1/8 MP
16	-		
15H	426-1662	1	HOSE 4250 8 109.0 0J 0J
14	401-6701	1	90° BULKHEAD ADAPTER,1/2 MJ
13	-		
12	-		
11	401-6785	8	STRAIGHT ADAPTER,1/4 MJ X 1/4 MP
10	-		
9	-		
8	427-4727	1	ASSY LWR INJ FR FRM L18/L23 G2
7	427-1145	2	2 UNIT-INJECTOR SL-V
6	427-4728	1	ASSY UP INJ FR FRM L13/L23 G2
5	427-1149	1	4 UNIT-INJECTOR SL-V
4	-		
3	427-0905	4	3 UNIT INJECTOR SL-V SL-V-XL
2	-		
1	427-9092	1	ASSY GREASE RESERVOIR-PUMP
ITEM	PART NO.	QTY	DESCRIPTION

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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 .164 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO.

DWN	M. DUKE	10-19-2010
CHK	AY	10-19-10
ENGR		
PROD ENGR	AY	10-19-10
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

REF AUTO LUBE L18502201&UP

SIZE E | DO NOT SCALE | DRG NO. 4270840 | REV 09

SCALE 1/1 | DO NOT SCALE | SHEET 1 OF 1

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AUTO LUBE SYSTEM

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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.					
	R4270848		AUTO LUBE SYSTEM		6/10/15
1	R4279092	1	· CONTAINER, AUTO LUBE (PAGE 9.3-9.3B)		10/23/14
	R4271150	REF	· CONTAINER, AUTO LUBE - EARLY PRODUCTION (PAGE 9.3-9.3B)		10/23/14
2	N.P.N.		· NOT USED		
3	R4270905	4	· INJECTOR, 3-UNIT - SL-V SL-V-XL		3/12/12
	R4270869	8	· · CAP, PROTECTIVE - SHORT		3/12/12
	R4270870	4	· · CAP, PROTECTIVE - LONG		3/12/12
	R4270902	8	· · INJECTOR, SL-V		3/12/12
	R4270903	4	· · INJECTOR, SL-V-XL		3/12/12
4	N.P.N.		· NOT USED		10/18/11
5	R4271149	1	· INJECTOR, 4-UNIT - SL-V		
	R4270869	4	· · CAP, PROTECTIVE - SHORT		3/12/12
	R4270902	4	· · INJECTOR, SL-V		3/12/12
6	R4274728	1	· INJECTOR ASSEMBLY, FRONT FRAME - UPPER		
	R4271146	1	· · INJECTOR, 2-UNIT - SL-V SL-V-XL		
	R4270869	1	· · · CAP, PROTECTIVE - SHORT		3/12/12
	R4270870	1	· · · CAP, PROTECTIVE - LONG		3/12/12
	R4270902	1	· · · INJECTOR, SL-V		3/12/12
	R4270903	1	· · · INJECTOR, SL-V-XL		3/12/12
	R4270906	1	· · INJECTOR, 2-UNIT - SL-V SL-V-XL		
	R4270869	1	· CAP, PROTECTIVE - SHORT		3/12/12
	R4270870	1	· CAP, PROTECTIVE - LONG		3/12/12
	R4270902	1	· INJECTOR, SL-V		3/12/12
	R4270903	1	· INJECTOR, SL-V-XL		3/12/12
7	R4271145	2	· INJECTOR, 2-UNIT - SL-V		
	R4270869	2	· · CAP, PROTECTIVE - SHORT		3/12/12
	R4270902	2	· · INJECTOR, SL-V		3/12/12
8	R4274727	1	· INJECTOR ASSEMBLY, FRONT FRAME - LOWER		
	R4271145	1	· · INJECTOR, 2-UNIT - SL-V		
	R4270869	1	· CAP, PROTECTIVE - SHORT		3/12/12
	R4270902	1	· INJECTOR, SL-V		3/12/12
	R4273348	2	· · INJECTOR, 2-UNIT - SL-V-XL		
	R4270870	2	· CAP, PROTECTIVE - LONG		3/12/12
	R4270903	2	· INJECTOR, SL-V-XL		3/12/12
9	N.P.N.		· NOT USED		3/12/12
10	N.P.N.		· NOT USED		10/18/11
11	R4016785	8	· ADAPTER, 1/4" MP X #4 MJ		
12	N.P.N.		· NOT USED		
13	N.P.N.		· NOT USED		
14	R4016701	1	· ELBOW, #8 MJ X 90 deg. X #8 MJ - BULKHEAD		
15	R4261662	1	· HOSE ASSEMBLY, #8 X 109"		10/18/11
16	N.P.N.		· NOT USED		3/12/12
17	R4078933	6	· ELBOW, 1/8" MP X 90 deg. X #4 MJ X 1-3/16"		10/23/14
18	R4002439	4	· ELBOW, 3/8" MP X 90 deg. X #8 MJ		3/12/12
19	R0088402	3	· PLUG, PIPE - 3/8", HEX CSK.		
20	R4032312	3	· NIPPLE, PIPE - 3/8", HEX		
21	R0979138	36	· ELBOW, 1/8" MP X 90 deg. X #4 MJ - SWIVEL		10/23/14
22	R0978632	12	· ADAPTER, 1/8" MP X #4 MJ		3/12/12
23	N.P.N.		· NOT USED		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
24	N.P.N.		· NOT USED		10/18/11
25	R4002420	2	· ADAPTER, 3/8" MP X #8 MJ		
26	R4041768	1	· TEE, #8 FJ X #8 MJ X #8 MJ		
27	R4038894	1	· TEE, #8 MJ X #8 MJ X 3/8" MP		
28	R4002479	2	· ELBOW, #8 FJ X 90 deg. X #8 MJ - SWIVEL		10/23/14
29	R4037689	4	· ELBOW, 1/8" FP X 90 deg. X 1/8" MP		3/12/12
30	R4016199	2	· ELBOW, #8 FJ X 45 deg. X #8 MJ - SWIVEL		3/12/12
31	N.P.N.		· NOT USED		3/12/12
32	R4013799	1	· REDUCER, 1" FP X 1-1/4" MP		3/12/12
33	R4017453	REF	· COUPLING, 3/8" FP		
34	R4086102	REF	· GREASE BLOCK, 3/8"		
35	R4116644	REF	· ELBOW, #4 MO X 90 deg. X #6 MJ		
36	N.P.N.		· NOT USED		10/18/11
37	R4002470	REF	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
38	R4021571	1	· ADAPTER, 1/4" MP X #8 MJ		6/10/15
39	R4255496	1	· TRANSMITTER KIT, PRESSURE - 5000 PSI		3/12/12
	R4255491	1	· · TRANSMITTER, PRESSURE - 0-5000 PSI		3/12/12
	R4255449	1	· · CABLE ASSEMBLY, TURCK - 4-PIN 250V 0.9M		3/12/12
40	R4170615	2	· TUBE, EXTENSION		
41	R4038895	2	· TEE, #8 MJ X 3/8" MP X #8 MJ		10/18/11
42	R4018666	4	· ADAPTER, 1/2" MP X #8 MJ		10/23/14
43	R4040561	1	· ADAPTER, 1" MP X #12 MJ		3/12/12
44	N.P.N.		· NOT USED		10/18/11
45	R4222475	1	· BUSHING, 1/8" FP X 1/2" MP		3/12/12
46	R0020315	1	· FITTING, GREASE - 1/8" MP		3/12/12
47	N.P.N.		· NOT USED		10/18/11
48	R4002481	1	· ELBOW, #12 FJ X 90 deg. X #12 MJ - SWIVEL		3/12/12
49	R4013795	1	· BUSHING, 1/2" FP X 1" MP		10/23/14
50	R4172340	1	· HOSE ASSEMBLY, #4 X 253"		3/12/12
51	R4186085	1	· HOSE ASSEMBLY, #4 X 154"		3/12/12
52	R4133373	1	· HOSE ASSEMBLY, #4 X 120"		3/12/12
53	R6983192	3	· HOSE ASSEMBLY, #4 X 90"		3/12/12
54	R4150735	1	· HOSE ASSEMBLY, #4 X 80"		
55	R4186085	2	· HOSE ASSEMBLY, #4 X 154"		3/12/12
56	N.P.N.		· NOT USED		3/12/12
57	R4122872	1	· HOSE ASSEMBLY, #4 X 70"		
58	R4169642	REF	· HOSE ASSEMBLY, #8 X 295"		10/18/11
59	N.P.N.		· NOT USED		3/12/12
60	R4129028	1	· HOSE ASSEMBLY, #8 X 68"		
61	R4129020	1	· HOSE ASSEMBLY, #8 X 52"		
62	R4150768	1	· HOSE ASSEMBLY, #8 X 54"		
63	R4122863	2	· HOSE ASSEMBLY, #8 X 33"		10/23/14
64	R4243740	REF	· HOSE ASSEMBLY, #6 X 130"		
65	R4243915	REF	· HOSE ASSEMBLY, #6 X 188"		
66	R4017451	REF	· COUPLING, PIPE - 1/2"		3/12/12
67	N.P.N.		· NOT USED		3/12/12
68	R4193532	2	· HOSE ASSEMBLY, #4 X 85"		
69	R4150749	2	· HOSE ASSEMBLY, #4 X 130"		
70	R4148824	1	· HOSE ASSEMBLY, #4 X 100"		3/12/12
71	R4129045	1	· HOSE ASSEMBLY, #8 X 102"		10/18/11
72	R4150738	2	· HOSE ASSEMBLY, #4 X 93"		
73	N.P.N.		· NOT USED		3/12/12
74	R4129045	2	· HOSE ASSEMBLY, #8 X 102"		
75	N.P.N.		· NOT USED		3/12/12
76	R4122873	2	· HOSE ASSEMBLY, #4 X 68"		
77	R4148823	2	· HOSE ASSEMBLY, #4 X 84"		10/18/11
78	R4130284	2	· HOSE ASSEMBLY, #4 X 29"		
79	R4148824	3	· HOSE ASSEMBLY, #4 X 100"		10/18/11

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
80	R4213531	2	· HOSE ASSEMBLY, #4 X 136" - STANDARD LIFT		
81	R6971718	2	· HOSE ASSEMBLY, #4 X 58"		
82	R4223118	2	· HOSE ASSEMBLY, #4 X 94"		
83	R4122857	2	· HOSE ASSEMBLY, #4 X 54"		
84	R4222463	1	· HOSE ASSEMBLY, #12 X 60"		
85	R4129012	1	· HOSE ASSEMBLY, #8 X 36"		3/12/12
86	N.P.N.		· NOT USED		3/12/12
87	N.P.N.		· NOT USED		
88	R4170674	4	· PLUG ASSEMBLY, 3" - LIFTARM PIVOT BALL		
	R4172095	4	· · SEAL, 2-1/2" I.D.		2/23/12
89	R4129036	1	· HOSE ASSEMBLY, #8 X 84"		
90	N.P.N.		· NOT USED		10/18/11
91	N.P.N.		· NOT USED		3/12/12
92	R4243746	2	· HOSE ASSEMBLY, #4 X 40"		3/12/12
93	R4186021	2	· HOSE ASSEMBLY, #4 X 37"		
94	R4211961	REF	· GREASE BLOCK, 2-WAY		
95	R4211962	REF	· GREASE BLOCK, 3-WAY		
96	R4222441	1	· FILTER		3/12/12
97	R4222474	1	· ADAPTER, 1/2" FP X #8 MJ		3/12/12
98	N.P.N.		· NOT USED		
99	R4032325	1	· ELBOW, 1/2" FP X 90 deg. X 1/2" MP		10/23/14
100	N.P.N.		· NOT USED		3/12/12
101	N.P.N.		· NOT USED		3/12/12
102	N.P.N.		· NOT USED		3/12/12
103	R4244980	1	· ADAPTER, #8 FJ X #8 MJ - SWIVEL		6/10/15
104	R4013779	1	· PLUG, PIPE - 1/4", HEX HD.		10/18/11
105	R4031446	1	· TEE, 1/4" FP		10/18/11
106	R4016785	4	· ADAPTER, 1/4" MP X #4 MJ		3/12/12
		REF	DIAGRAM, AUTO LUBE (R427084009)		6/10/15

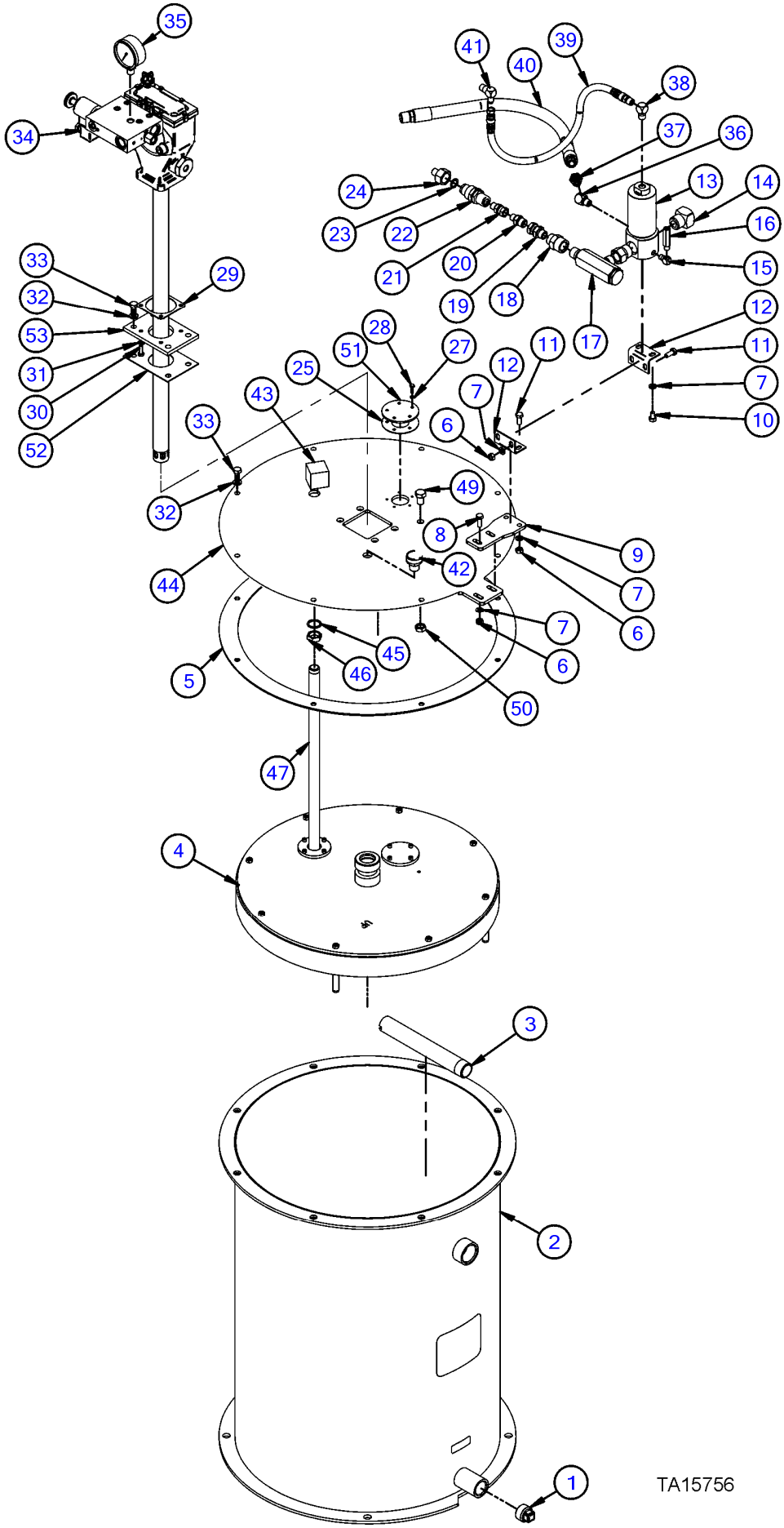
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AUTO LUBE GREASE RESERVOIR AND PUMP ASSEMBLY



TA15756

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AUTO LUBE GREASE RESERVOIR AND PUMP ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271150		AUTO LUBE GREASE RESERVOIR AND PUMP ASSEMBLY		8/8/17
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	R0821687	6	· NUT, 5/16"-18		
7	R0264174	8	· LOCKWASHER, 5/16"		
8	R4278340	2	· BOLT, 5/16"-18 X 7/8"		
9	R4275759	1	· BRACKET		
10	R0812252	2	· BOLT, 5/16"-18 X 1/2"		
11	R0988144	4	· BOLT, 5/16"-18 X 3/4"		
12	R4275758	2	· BRACKET		
13	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		
14	R4275738	1	· ELBOW		
15	R4275757	1	· ELBOW		
16	R4163567	1	· VALVE, PRESSURE RELIEF - 5000 PSI		8/18/14
17	R4222441	1	· FILTER		
18	R4275736	1	· REDUCER		
19	R4275735	1	· ADAPTER UNION		
20	R4275734	1	· REDUCER NIPPLE		
21	R4275733	1	· ADAPTER UNION		
22	R4275732	1	· VALVE, CHECK - OUTLET		
23	R4275742	2	· GASKET		
24	R4275731	1	· ADAPTER		
25	R4278341	1	· GASKET		
27	R4010907	5	· LOCKWASHER, #10		
28	R4012424	5	· BOLT, #10-27 X 5/8"		
29	R4275754	1	· GASKET		
30	R0810986	4	· BOLT, 1/4"-20 X 3/4"		
31	R0213584	4	· LOCKWASHER, 1/4"		
32	R0753123	12	· LOCKWASHER, 3/8"		
33	R0808476	12	· BOLT, 3/8"-16 X 1-1/4"		
34	R4275729	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		
	R4270997	1	· · CONNECTOR, COIL - SOLENOID		
	R4270999	1	· · CARTRIDGE, VALVE - SOLENOID		
	R4271001	1	· · VALVE KIT, SOLENOID		
	R4271002	1	· · SOFT PARTS KIT		
	R4271004	1	· · SEAL KIT, FLOW CONTROL VALVE - NITRILE		
	R4255099	1	· · CRANK, ECCENTRIC		
	R4255100	1	· · BEARING, BALL		
	R4255101	1	· · PIN, OUTLET		
	R4278367	1	· · HYDRAULIC MOTOR KIT		
	R4255115	1	· · PLUG, SHOVEL		
	R4255116	1	· · RING, RETAINING		
	R4255118	1	· · ORIFICE FITTING		
	R4255119	1	· · GASKET		
	R4255120	1	· · STRAINER, INLET		

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AUTO LUBE GREASE RESERVOIR AND PUMP ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271005	1	· · UPPER BUSHING AND PLUNGER KIT		
	R4271006	1	· · PIVOT PIN AND ANCHOR KIT		
	R4271007	1	· · LOWER BUSHING AND PLUNGER KIT		
35	R4255109	1	· · GAUGE, PRESSURE		9/25/13
36	R4275739	1	· ELBOW, 45 deg.		
37	N.P.N.	1	· ADAPTER		
38	R4275746	1	· ELBOW		
39	R4275744	1	· HOSE		
40	R4275740	1	· HOSE, VENT		
41	N.P.N.	1	· ELBOW, 90 deg.		
42	R4275745	1	· FITTING, VENT		
43	R4275751	1	· ELBOW, VENT		
44	R4275747	1	· COVER, DRUM		
45	R4275752	1	· GASKET		
46	R4275753	1	· NUT		
47	R4275755	1	· TUBE, VENT		
49	R4278366	1	· BOLT, 1/2"-20 X 3/4"		
50	R4012946	1	· JAMNUT, 1/2"-20		
51	N.P.N.	1	· COVER		
52	N.P.N.	1	· GASKET		
53	N.P.N.	1	· MOUNT PLATE		
		REF	DRAWING, GREASE RESERVOIR AND PUMP ASSEMBLY (R427115002)		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
1	R4266376	1	COLD CLIMATE HEATING GROUP		1/28/14
2	R4266343	1	· COLD CLIMATE ELECTRICAL GROUP		
3	R4266348	1	· · GENERAL ELECTRIC GROUP, COLD CLIMATE HEATING		
4	R4271840	1	· · · 240 VAC HEATERS BOX ASSEMBLY		1/9/12
7	R4266345	1	· · BATTERY HEATER GROUP		
8	R4038052	1	· · · HEATER, BATTERY BOX		
9	R4266349	1	· · HYDRAULIC TANK HEATER GROUP		
10	R4038051	1	· · · HEATER, HYDRAULIC TANK		
11	R4266350	1	· · · HYDRAULIC HEATER INSTALLTION GROUP		
12	R4266347	1	· · GREASE TANK HEATER GROUP		
13	R4274363	1	· · · HEATER, DRUM - 1000W		
14	R4234672	1	· · · BLANKET, INSULATING - 55 GALLONS		
15	R4266352	1	· · ELECTRICAL GROUP, ENGINE HEATING		
16	R0853460	1	· · · HEATER, ENGINE - 40002/240V		
17	R4253381	1	· · · HEATER, OIL - 1/2"		
18	R0583631	1	· · · THERMOSTAT, 25A - 120 ON/140 OFF		
19	R4062022	1	· · · JUNCTION BOX, WATER PROOF WITH COVER & GASKET		
20	R4266353	1	· · · ENGINE HEATER INSTALLATION GROUP		
21	R4265179	1	· · CONNECTOR, 125/250V 50A 3P4WIRE		
22	R4266375	1	· PLUMBING GROUP COLD CLIMATE - DD T2		1/28/14
23	R4002432	1	· · ELBOW, 3/4" MP X 45 deg. X #12 MJ		
24	R4002434	1	· · ELBOW, 1" MP X 45 deg. X #16 MJ		
25	R4013795	1	· · BUSHING, 1/2" FP X 1" MP		
26	R4013950	1	· · REDUCER, 3/4" FP X 1-1/2" MP		
27	R4015753	1	· · ADAPTER, 1/2" MP X #12 MJ		
28	R4150810	1	· · HOSE ASSEMBLY, #12 X 60"		
29	R4193350	1	· · BUSHING, 3/4" FP X 1" MP		
30	R4243659	1	· · HOSE ASSEMBLY, #12 X 99"		

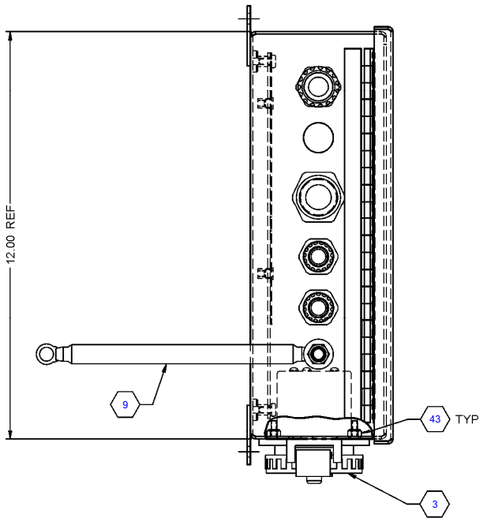
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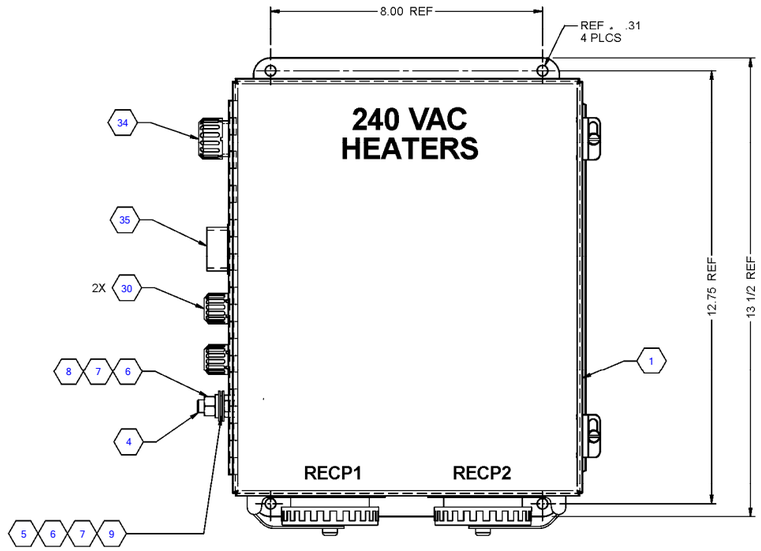
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

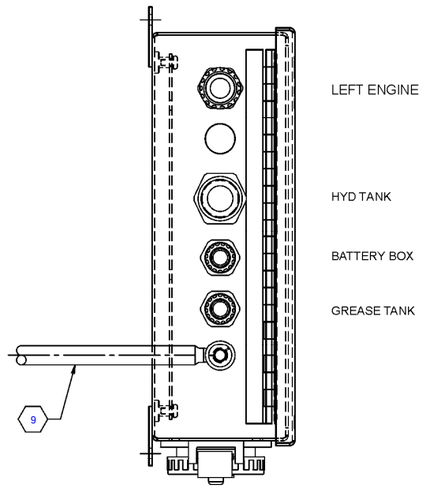
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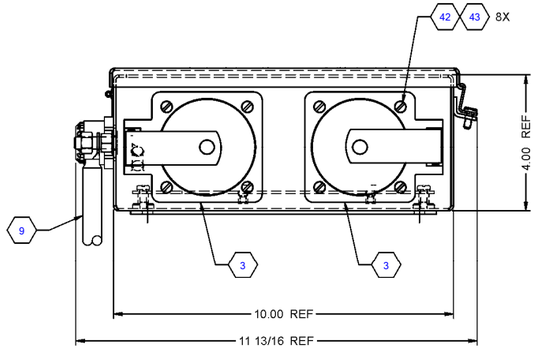
240 VAC HEATERS BOX ASSEMBLY







CONDUIT DISTRIBUTION



ITEM	PART NO.	QTY	DESCRIPTION
50	4228783	3 FT	HEAT SHRK GRN/YEL .250 4:1 INCH
49	4224993	2 FT	HEAT SHRK GRN/YEL .500 4:1 INCH
48	4270209	6	FERRULE INSUL 8AWG .472LG INSERT RED
47	4270208	2	FERRULE INSUL 10AWG .472LG INSERT YEL
46	4270207	24	FERRULE INSUL 12AWG .472LG INSERT GRAY
45	4270205	6	FERRULE INSUL 16AWG .315LG INSERT BLK
44	4017134	4	NUTSERT 10-32 UNF
43	4105656	8	NUT LOCK NYL INS #8-32 UNC SS
42	4105622	8	SCREW, FH #8-32 UNC-2A x 3/4 LG SS
41	4111903	9 FT	CABLE #12 AWG 1C XLP SHP 600V
40	4111904	4 FT	CABLE #10 AWG 1C XLP SHP 600V
39	4111905	8 FT	CABLE POLYOLEFIN SINGLE #8 AWG
38	4271841	1	TERMINAL MARKER 240 VAC HEATERS
37	4271842	1	CODE SHEET 240 VAC HEATERS
36	4217715	1	NUT LOCK NYL LNP-M25
35	4217705	1	ADAPTER BODY AB25-M25
34	4217707	1	CAP NUT CN16
33	4217710	1	SEALING RING SRN16
32	4217704	1	ADAPTER BODY AB20-M20
31	4217714	3	NUT LOCK NYL LNP-M20
30	4238811	2	CAP NUT CN09
29	4238814	2	SEALING RING SRN09
28	4238809	2	ADAPTER BODY AB12-M20
27	4227295	3	PLATE SEPARATING PHOENIX TS-K
26	4251788	10	FIXED BRIDGE DIN FBI 10-10
25	4228652	10	TERM BLK 1P 2 TERM #6 AWG
24	4266266	4	BRIDGE FIXED PHOENIX FB10-6
23	4228650	1	PARTITION PL PHOENIX ATP-UK
22	4247479	1	SPCR PLT DBL TERM BLK 2770794
21	4264180	2	TERM BLK GRAY PHOENIX 27 71 14 6
20	4264184	1	TERM BLK COVER PHOENIX 27 71 02 3
19	4264183	3	TERM BLK GND PHOENIX 27 74 21 1
18	4265173	2	FUSE ATMR 8 AMPS 600 VAC/DC
17	4265172	8	FUSE ATMR 25 AMPS 600 VAC/DC
16	2228072	5	FUSE HOLDER 2P CC 600VAC 30A
15	4265756	3	BRACKET END PHOENIX 08 00 88 6
14	4153670	4	MSCR PH #10-32 UNF X .5 SS
13	4129670	4	WASHER, LCK, SPR, #10 SS
12	4251862	2	RAIL MOUNTING 8.00 LG DIN
11	4019437	2	WIRE TERMINAL RT 12-10 .375 INS (YEL)
10	4019681	2	WIRE TERMRG RT 8 .375 INS
9	2227726	1	CABLE, GROUND #6 3/8 LUGS 8IN.
8	4129671	2	WASHER LOCK SPR 3/8 SS
7	4229233	4	WASHER FLAT .375 SS
6	2063953	4	NUT HX 3/8 SS
5	4229234	2	WASHER LOCK EXT .375 SS
4	4163232	1	ROD THD 3/8-16 UNC X 2-1/2 SS
3	4265178	2	POWER INLET 125/250V 50A SS
2	4265175	1	PANEL J-BOX 10.75x8.88 14GA
1	4265174	1	JCTN BOX 12 10 4.0 14GA SS

03

03

03

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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.

THIRDANGLE PROJECTION

FIRST USED ON/CONTRACT NO
426-6343

	DATE
DWN	
CHK	
ENGR	
PROD ENGR	
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

ASSY BOX 240 VAC HEATERS

SIZE D | DO NOT SCALE | DWG NO. 4271840 | REV 03

SCALE 1:2 | EST WT. 18.1 lbm | SHEET 1 OF 3

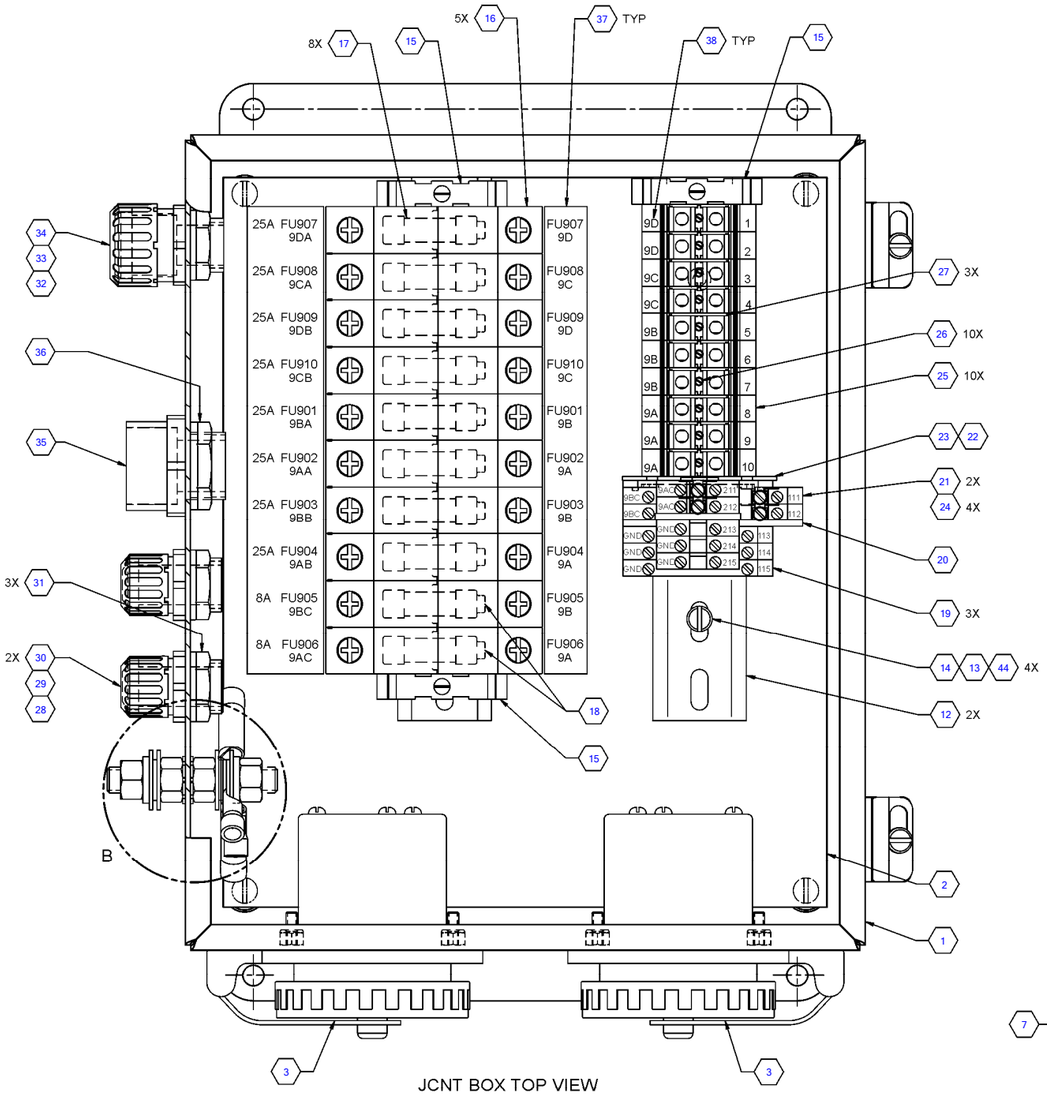
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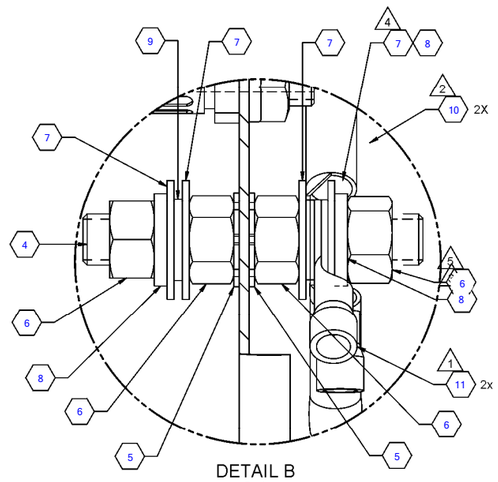
240 VAC HEATERS BOX ASSEMBLY

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240 VAC HEATERS BOX ASSEMBLY



JCNT BOX TOP VIEW
1:1
(COVER NOT SHOWN FOR CLARITY)



DETAIL B
2:1

WIRE CHART

INTERNAL WIRING

WIRE GAUGE	WIRE CODE	FROM	TO
6	9A	RECP1-X	TB10-R
6	9B	RECP1-Y	TB7-R
6	GND	RECP1-G	GND STUD
6	9C	RECP2-X	TB4-R
6	9D	RECP2-Y	TB2-R
6	GND	RECP2-G	GND STUD
10	GND	TB113-R	GND STUD
10	GND	TB115-R	GND STUD
12	9D	TB1-L	FU907-R
12	9D	TB2-L	FU909-R
12	9C	TB3-L	FU908-R
12	9C	TB4-L	FU910-R
12	9B	TB5-L	FU901-R
12	9B	TB6-L	FU903-R
12	9B	TB7-L	FU905-R
12	9A	TB8-L	FU902-R
12	9A	TB9-L	FU904-R
12	9A	TB10-L	FU906-R
12	9BC	TB111-R	FU905-L
12	9AC	TB211-R	FU906-L

EXTERNAL WIRING
(WHEN BOX IS INSTALLED ON MACHINE)

WIRE GAUGE	WIRE CODE	FROM	TO
12	9DA	ENG HEAT LEFT JBOX	FU907-L
12	9CA	ENG HEAT LEFT JBOX	FU908-L
12	GND	ENG HEAT LEFT JBOX	TB113-L
12	9DB	ENG HEAT RIGHT JBOX	FU909-L
12	9CB	ENG HEAT RIGHT JBOX	FU910-L
12	GND	ENG HEAT RIGHT JBOX	TB114-L
12	9BA	HYD TANK HEATER 1	FU901-L
12	9AA	HYD TANK HEATER 1	FU902-L
12	GND	HYD TANK HEATER 1	TB115-L
12	9BB	HYD TANK HEATER 2	FU903-L
12	9AB	HYD TANK HEATER 2	FU904-L
12	GND	HYD TANK HEATER 2	TB213-L
16	9BC	BATTERY BOX	TB111-L
16	9AC	BATTERY BOX	TB211-L
16	GND	BATTERY BOX	TB214-L
16	9BC	GREASE TANK	TB112-L
16	9AC	GREASE TANK	TB212-L
16	GND	GREASE TANK	TB215-L
	GND	GND STRAP	FRAME

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	00	RELEASE	NL10-0462	4-13-10	FL	BAS	BS
	01	ADDED TORQUE SPEC CHART AND NOTE	NL10-0638	6-17-10	JFM	BS	BS
	02	ITEM 12 DIN RAIL WAS 10.50 LG	NL10-0471	8-11-10	FL	BAS	BS
	03	NO CHG THIS SHEET; SEE SHEET 1 FOR CHG	NL11-0363	2-2-11	JFM	BS	BS

FUSE BLOCK	AMPERAGE
FU907	25A
FU908	25A
FU909	25A
FU910	25A
FU901	25A
FU902	25A
FU903	25A
FU904	25A
FU905	8A
FU906	8A

BRIDGE BETWEEN	SEPERATING PLATE BETWEEN
1-2	2-3
3-4	4-5
5-7	7-8
8-10	
111-112	
211-212	

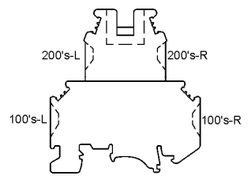
NOTE:
SEE TERMINAL BLOCK TORQUE SPECIFICATIONS CHART PRIOR TO INSTALLING WIRES IN THE TERMINAL BLOCKS.

LEGEND

FU901-L

COMPONENTS:
FU # (FUSE)
RECP # (RECEPTACLE)
TB # (TERMINAL BLOCK)
1's & 10's: SINGLE LEVEL TERMINAL BLOCK
100's: LOWER LEVEL TERMINAL BLOCK
200's: UPPER LEVEL TERMINAL BLOCK
900's: FUSES

SIDE
L: LEFT HAND SIDE
R: RIGHT HAND SIDE
X, Y, G: RECEPTACLE CONNECTIONS



DOUBLE TERMINAL BLOCK LAYOUT

TORQUE SPECIFICATIONS CHART					
ITEM NO.	LTI P/N	MIN TORQUE (lb in)	MAX TORQUE (lb in)	MIN TORQUE (Nm)	MAX TORQUE (Nm)
16	2228072	14.7		1.66	
19	4264183	5.3	7.1	0.6	0.8
21	4264180	5.3	7.1	0.6	0.8
25	4228652	13.3	15.9	1.5	1.8

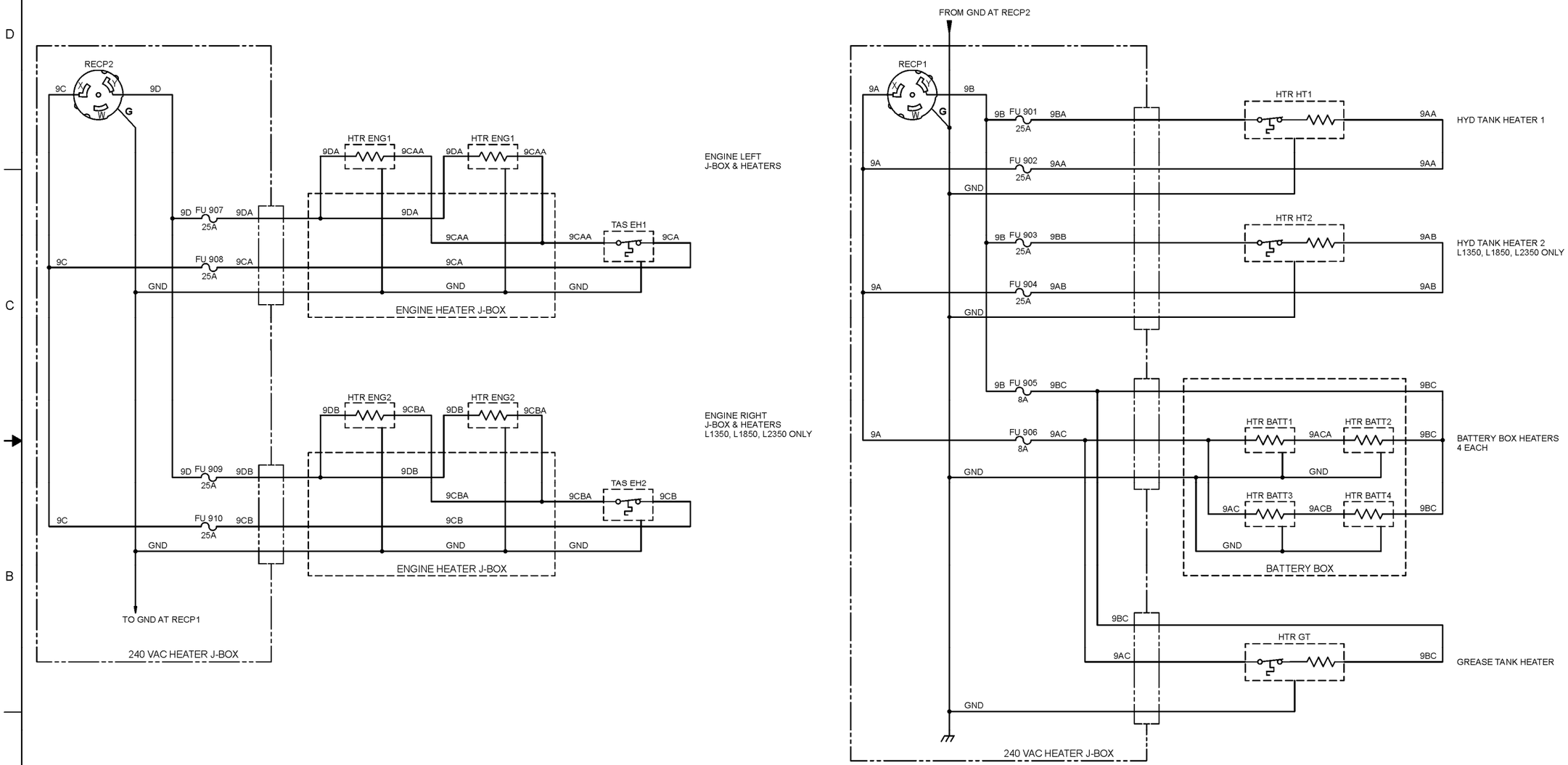
ASSY BOX 240 VAC HEATERS				
DRAWN flovett	SIZE D	DO NOT SCALE	DWG NO. 4271840	REV 03
ISSUED 3-30-10	SCALE 1/2	EST WT 18.1 lbm	SHEET 2 OF 3	

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240 VAC HEATERS BOX ASSEMBLY

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240 VAC HEATERS MACHINE WIRING SCHEMATIC



ASSY BOX 240 VAC HEATERS		SIZE D	DO NOT SCALE	DWG NO 4271840		REV 03
DRAWN						
ISSUED		SCALE 1/2	EST WT 18.1 lbm		SHEET 3 OF 3	

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240 VAC HEATERS BOX ASSEMBLY

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271840		240 VAC HEATERS BOX ASSEMBLY		
1	R4265174	1	· JUNCTION BOX, S.S.		
2	R4265175	1	· PANEL, JUNCTION BOX		
3	R4265178	2	· POWER INLET, 125/250V 50A S.S.		
4	R4163232	1	· ROD, THREADED - 3/8"-16 X 2-1/2" S.S.		
5	R4229234	2	· LOCKWASHER, 3/8" - S.S.		
6	R2063953	4	· NUT, 3/8"-16 - S.S.		
7	R4229233	4	· FLATWASHER, 3/8" - S.S.		
8	R4129671	2	· LOCKWASHER, 3/8" - S.S.		
9	R2227726	1	· CABLE, GROUND #6 3/8" LUGS 8"		
10	R4019681	2	· TERMINAL, WIRE - #8 - 3/8" INS		
11	R4019437	2	· TERMINAL, WIRE - 12/10 - 3/8" INS		
12	R4251862	2	· RAIL MOUNTING, 8" DIN		
13	R4129670	4	· LOCKWASHER, #10		
14	R4153670	4	· SCREW, #10-32 X 1/2" - S.S.		
15	R4265756	3	· BRACKET END		
16	R2228072	5	· FUSE HOLDER, 2P CC 600VAC 30A		
17	R4265172	8	· FUSE, 25A 600V		
18	R4265173	2	· FUSE, 8A 600V		
19	R4264183	3	· TERMINAL BLOCK, GROUND		
20	R4264184	1	· TERMINAL BLOCK, COVER		
21	R4264180	2	· TERMINAL BLOCK, GRAY		
22	R4247479	1	· SPACER PLATE, GRAY		
23	R4228650	1	· PARTITION PLATE		
24	R4266266	4	· BRIDGE, FIXED		
25	R4228652	10	· TERMINAL BLOCK, 2 TERM.		
26	R4251788	10	· BRIDGE, FIXED		
27	R4227295	3	· PLATE, SEPARATING - TS-K		
28	R4238809	2	· ADAPTER BODY AB12-M20		
29	R4238814	2	· RING, SEALING - SRN09		
30	R4238811	2	· NUT, CAP - CN09		
31	R4217714	3	· LOCKNUT, NYLON - LNP-M20		
32	R4217704	1	· ADAPTER BODY		
33	R4217710	1	· RING, SEALING - SRN16		
34	R4217707	1	· NUT, CAP - CN16		
35	R4217705	1	· ADAPTER BODY		
36	R4217715	1	· LOCKNUT, NYLON - LNP-M25		
37	R4271842	1	· CODE SHEET, 240 VAC HEATERS		
38	R4271841	1	· MARKER, TERMINAL - 240 VAC HEATERS		
39	R4111905	8	· CABLE, #8 AWG 2000V		
40	R4111904	4	· CABLE, #10 AWG 2000V		
41	R4111903	9	· CABLE, #12 AWG 2000V		
42	R4105622	8	· SCREW, #8-32 X 3/4" - S.S.		
43	R4105656	8	· LOCKNUT, #8-32 - S.S., NYLON		
44	R4017134	4	· NUTSERT, #10-32		
45	R4270205	6	· FERRULE, INSULATED - 16 AWG .315LG BLACK		
46	R4270207	24	· FERRULE, 12 AWG - GRAY		
47	R4270208	2	· FERRULE, 10 AWG - YELLOW		
48	R4270209	6	· FERRULE, 8 AWG - RED		
49	R4224993	2	· HEAT SHRINK, GREEN/YELLOW - 1/2"		
50	R4228783	3	· HEAT SHRINK, GREEN/YELLOW - 1/4"		
	R4271840	REF	240 VAC HEATERS BOX ASSEMBLY		

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Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date
	R4241414			ARCTIC CLIMATE FLUIDS GROUP		3/6/12
1	R4119571	6	GL	· OIL, GEAR - 75W 140, SHAEFFER		
2	R4123226	500	GL	· OIL, HYDRAULIC		10/13/08
3	R4121206	120	GL	· GREASE, #1 - 120# SCAEFFER ARCTIC		10/13/08
4	R4250628	160	GL	· OIL, GEAR - SHC 220		10/13/08
5	R4239360	65	GL	· OIL, ENGINE - DELVAC 1300 SUPER		10/13/08
6	R4246222	70	GL	· ANTI-FREEZE, PERMANENT - RP-329A		
7	R4264947	1	QT	· OIL, SYNTHETIC - 75W 90, ROYAL PURPLE MAX-GEAR		10/13/08
8	R4266616	4		· INFORMATION PLATE, BRASS - LUBRICATION SHC 220		4/30/09
9	R4275276	REF		· INFORMATION PLATE, BRASS - LUBRICATION SHC 220 (FRENCH)		3/6/12

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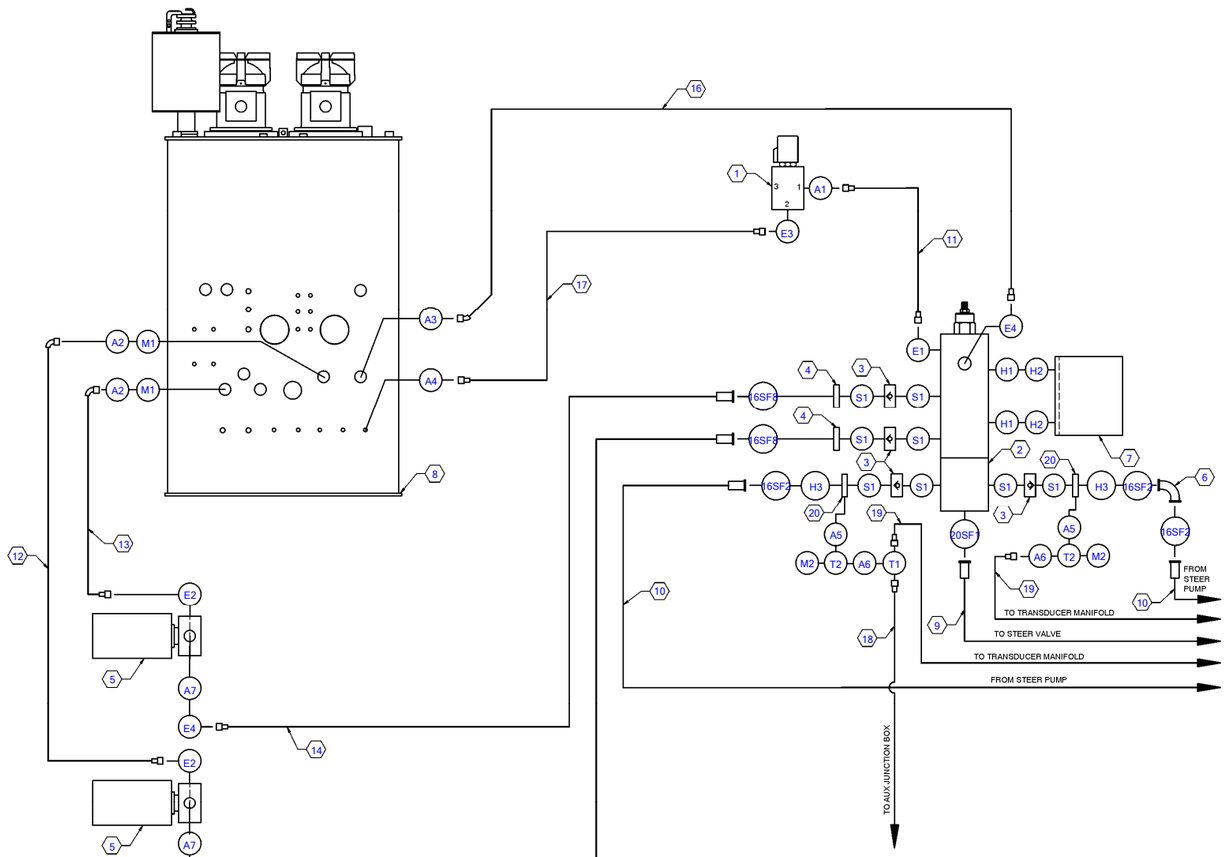
Item No.	Part Number	Qty.	Units	Part Name	Sugg. Qty.	Rev Date

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AUXILIARY STEERING GROUP

REVISIONS							
ZONE	REV	DESCRIPTION	ECN	DATE	CHG	CHK	APP
	04	REDRAWN, ITEM 9 WAS 4244174 Y	NL12-1837	6-21-12	XMD	AY	A



#20 SF1 SET	421-3614		BOLT, HEX HD - 7/16 UNC X 1-3/4
	421-0348		WASHER, 7/16 HARDENED
	406-8357		O-RING, 1 1/4" SAE SPLIT FLNGE
	418-6400		FLANGE HALF FORG 1.25 6000
#16 SF8 SET	083-6048		BOLT HEX .375 3.5000 NC G8
	421-0347		WASHER FLAT .375 .56 .13 HRD
	410-5005		SEAL - SPLIT FLANGE - 1" POLYURETHANE
	418-6491		FLANGE HALF FORG 1.00 CODE 61
#16 SF2 SET	421-3614		BOLT, HEX HD - 7/16 UNC X 1-3/4
	421-0348		WASHER, 7/16 HARDENED
	410-5005		SEAL- SPILT FLANGE- 1" POLYURETHANE
	422-2102		FLANGE HALF - 1 SAE CODE 62
ITEM	PART NO.		DESCRIPTION
SPLIT FLANGE SETS			
T2	403-1446	2	TEE 8 FP 8 FP 4 FP
T1	406-3332	1	TEE 4 MJ 4 MJ 4 FJ
TEES			
S1	410-5005	8	O-RING, 1" SAE S.F. POLYURETHANE
SEALS			
M2	422-3016	2	COUPLER MALE ASY 4 MP
M1	401-3952	2	PIPE RED 1.50 1.25 BUSHING
MISC FITTINGS			
H3	400-1842	8	CSCR FH .375 3.00 NC G8
H2	075-3123	2	WASHER LOCK SPR .375 .68 .09
H1	400-3649	2	BOLT HX .375 3.000 NC G8
HARDWARE			
E4	400-2475	3	FTG HYD 90 16 MJ 16 MO
E3	401-7400	1	FTG HYD 90 6 MJ 8 MO
E2	400-2476	2	FTG HYD 90 20 MJ 20 MO
E1	400-2470	1	FTG HYD 90 6 MJ 6 MO
ELBOWS			
A7	425-7213	REF	FTG HYD 012 MO 16 FO
A6	401-6785	2	FTG HYD 0 4 MP 4 MJ
A5	405-1567	2	FTG HYD 0 6 MO 4 MP
A4	401-8666	REF	FTG HYD 0 8 MP 8 MJ
A3	403-3994	1	FTG HYD 0 16 MJ 12 MP
A2	400-2425	2	FTG HYD 0 20 MJ 20 MP
A1	402-0771	1	FTG HYD 0 8 MO 6 MJ
ADAPTERS			
20	424-1394	2	TEST BLOCK 1.00 SF C 61 TO C 62
19	698-9042	2	HOSE 5000 4 50.0 0J 0J
18	415-0727	1	HOSE 5000 4 56.0 0J 0J
17	415-0900	1	HOSE 2000 8 60.0 0J 0J
16	422-3499	1	HOSE 1000 16 76.0 0J 45J
15	424-3921	1	HOSE 4000 16 72.0 0J 0F
14	424-3920	1	HOSE 4000 16 48.0 0J 0F
13	424-3923	1	HOSE 625 20 32.0 0J 90J
12	424-3500	1	HOSE 625 20 26.0 0J 90J
11	414-3736	1	HOSE 4000 6 20.0 0J 0J
10	424-3727	2	HOSE 5000 16 90.0 0F 90F C62
9	424-4714	1	HOSE 5000 20 36.0 0F 45F
8	424-1325	REF	HYDRAULIC RESERVOIR
7	423-8010	REF	ANGLE MOUNT
6	424-1557	1	ELBOW STRUCTURE, 90° #16 C62
5	421-3992	2	PUMP,DC MOTOR 24V 9HP
4	421-9017	2	PLATE, 1" CONNECTOR
3	410-0321	4	CHECK VALVE, 1" S.F.
2	424-8914	REF	ASSY STEERING JUNCTION VALVE
1	424-4831	1	VALVE ASY SOL 2 WAY NO 24 VDC
ITEM	PART NO.	QTY	DESCRIPTION
NUMBERED ITEMS			

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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 D ECIMAL ±.01 XXX. DECIMAL ±.015
- MACHINED CORNERS 0.164 X 45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO: 424-5530

DWN	M. DUKE	6 21 2012
CHK	AY	6-21-12
ENGR		
PROD ENGR	AY	6-21-12
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

AUX STEERING L-1850

SIZE	DO NOT SCALE	DWG NO	REV
E		4243922	04

SCALE 1/1 WT SHEET 1 OF 1

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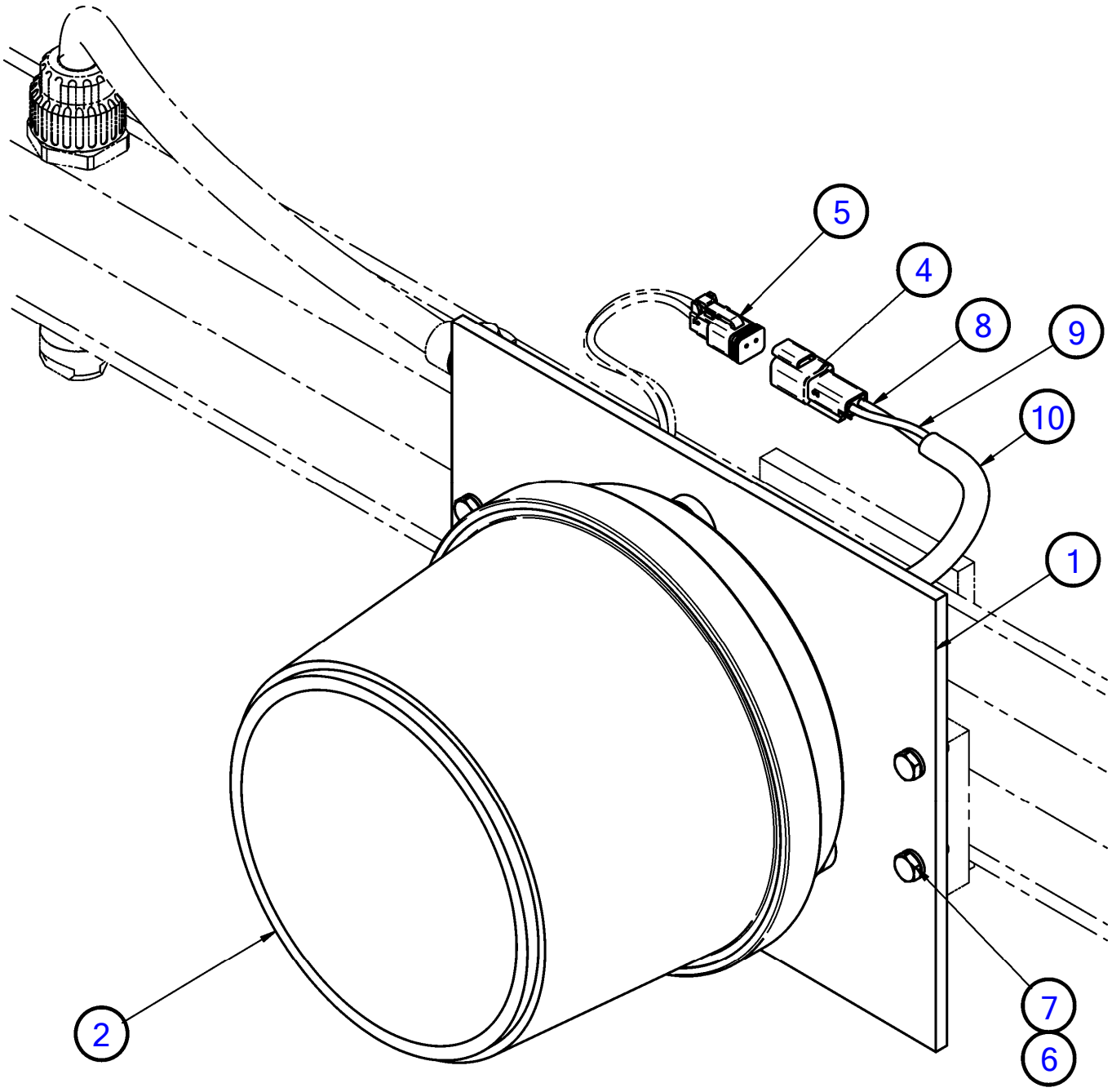
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4266369		AUXILIARY STEERING GROUP		11/7/16
1	R4244831	1	· VALVE ASSEMBLY, SOLENOID - 2-WAY N.O.		
2	R4248914	REF	· VALVE, JUNCTION - STEERING		
3	R4150321	4	· VALVE, CHECK - 1" S.F.		
	R4138036	4	· · O-RING, 1-1/2" I.D. - POLYURETHANE		8/5/14
	R4267979	4	· · O-RING, 1-1/4" I.D. - POLYURETHANE		8/5/14
4	R4219017	2	· PLATE, CONNECTOR - 1"		
5	R4213992	2	· PUMP ASSEMBLY, 9 HP-24V DC MOTOR		
6	R4241557	1	· ELBOW STRUCTURE, 90 deg. - #16		
7	R4238010	REF	· MOUNT, ANGLE		
8	N.P.N.	REF	· RESERVOIR STRUCTURE, HYDRAULIC (PAGE 8.0-8.0A)		
9	R4244714	1	· HOSE ASSEMBLY, #20 X 36"		6/22/12
10	R4243727	2	· HOSE ASSEMBLY, #16 X 90"		
11	R4143736	1	· HOSE ASSEMBLY, #6 X 20"		
12	R4243500	1	· HOSE ASSEMBLY, #20 X 26"		
13	R4243923	1	· HOSE ASSEMBLY, #20 X 32"		
14	R4243920	1	· HOSE ASSEMBLY, #16 X 48"		
15	R4243921	1	· HOSE ASSEMBLY, #16 X 72"		
16	R4223499	1	· HOSE ASSEMBLY, #16 X 76"		
17	R4150900	1	· HOSE ASSEMBLY, #8 X 60"		
18	R4150727	1	· HOSE ASSEMBLY, #4 X 56"		
19	R6989042	2	· HOSE ASSEMBLY, #4 X 50"		
20	R4241394	2	· TEST BLOCK, 1" S.F.		
NS	R4266370	1	· ELECTRICAL GROUP, AUXILIARY STEERING		
	R4259358	1	· · AUXILIARY STEERING BOX ASSEMBLY		
	R4267247	1	· · · JUNCTION BOX WITH PANEL		9/21/16
	R4288967	1	· · · · GASKET, COVER		11/7/16
	R4230771	1	· · · CIRCUIT BREAKER, 12A 250V 1P		
	R4228641	1	· · · RELAY, 5A 24VDC - DPDT		
	R1115519	2	· · · SWITCH, SOLENOID - AUXILIARY STEERING		
	R4140963	2	· · · DIODE ASSEMBLY, 6A-1000V - 3-1/8"		
	R4224575	1	· · · SWITCH, PRESSURE - 1 N.C., 30 PSI		
	R4268362	1	· · · CARD ASSEMBLY, STEERING INTERFACE		
A1	R4020771	1	· ADAPTER, #8 MO X #6 MJ		
A2	R4002425	2	· ADAPTER STRUCTURE, 1-1/4" MP X #20 MJ		
A3	R4033994	1	· ADAPTER, 3/4" MP X #16 MJ		
A4	R4018666	REF	· ADAPTER, 1/2" MP X #8 MJ		
A5	R4051567	2	· ADAPTER, 1/4" MP X #6 MJ		
A6	R4016785	2	· ADAPTER, 1/4" MP X #4 MJ		
A7	R4257213	REF	· ADAPTER, #16 FO X #12 MO		
			·		
E1	R4002470	1	· ELBOW, #6 MO X 90 deg. X #6 MJ - ADJ.		
E2	R4002476	2	· ELBOW, #20 MO X 90 deg. X #20 MJ		
E3	R4017400	1	· ELBOW, #8 MO X 90 deg. X #6 MJ - ADJ.		
E4	R4002475	3	· ELBOW, #16 MO X 90 deg. X #16 MJ		
			·		
H1	R4009649	2	· BOLT, 3/8"-16 X 5"		
H2	R0753123	2	· LOCKWASHER, 3/8"		
H3	R4001842	8	· CAPSCREW, 3/8"-16 X 3"		
			·		
M1	R4013952	2	· REDUCER, 1-1/4" FP X 1-1/2" MP		
M2	R4223016	2	· COUPLING ASSEMBLY, QUICK - MALE X 1/4" MP		
	R4222435	2	· · COUPLING, QUICK - MALE X 1/4" FP		
	R4222437	2	· · CAP, QUICK COUPLING		
	R4030298	2	· · NIPPLE, PIPE - 1/4", HEX		
S1	R4105005	8	· O-RING, 1-1/4" I.D. - POLYURETHANE		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
			·		
T1	R4063332	1	· TEE, #4 MJ X #4 MJ X #4 FJ - SWIVEL		
T2	R4031446	2	· TEE, 1/4" FP		
			·		
16SF2	R4222102	2	· FLANGE HALF, 1"		
	R4105005	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
	R4210348	4	· FLATWASHER, 7/16" - HARDENED		
	R4213614	4	· BOLT, 7/16"-14 X 1-3/4"		
			·		
16SF8	R4186491	2	· FLANGE HALF, 1"		
	R4105005	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R0836048	4	· BOLT, 3/8"-16 X 3-1/2"		
			·		
20SF1	R4186400	2	· FLANGE HALF, 1-1/4"		
	R4068357	1	· O-RING, 1-1/2" I.D. - POLYURETHANE		
	R4210348	4	· FLATWASHER, 7/16" - HARDENED		
	R4213614	4	· BOLT, 7/16"-14 X 1-3/4"		
		REF	AUXILIARY STEERING DIAGRAM (R424392204)		6/22/12

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BEACON LIGHT KIT - AMBER



426-7317

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BEACON LIGHT KIT - AMBER

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4267317		BEACON LIGHT KIT - AMBER		9/24/11
1	R4270266	1	· MOUNT PLATE, BEACON LIGHT		
2	R4216354	1	· LIGHT, BEACON - AMBER, 24V		
	R4012982	1	· · LAMP, SEALED BEAM - SPOT, 50W		
3	R4105641	3	· BOLT, 1/4"-20 X 1" - S.S.		
4	R4261176	1	· CONNECTOR KIT		
5	R4261175	REF	· CONNECTOR KIT, DT06-2S KIT		
6	R4105726	4	· LOCKWASHER, 1/4" - S.S.		
7	R4105638	4	· BOLT, 1/4"-20 X 5/8" - S.S.		
8	R4247467	2	· WIRE, #16 - RED		
9	R4247469	2	· WIRE, #16 - BLACK		
10	R2222107	2	· COVER, HEAT SHRINK - BLACK		
		REF	DRAWING, BEACON LIGHT KIT - AMBER (R426731702)		9/24/11

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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
	R4172015		FLUID SAMPLING KIT		6/2/07
1	R4013788	1	· BUSHING, 1/4" FP X 1/2" MP		6/2/07
2	R4163972	3	· VALVE, FLUID SAMPLING		4/7/99
3	R4012912	1	· ELBOW, 1/4" FP X 90 deg. X 1/4" FP		5/17/05
4	R4243646	1	· ADAPTER, #4 FP X 14 MM		5/17/05

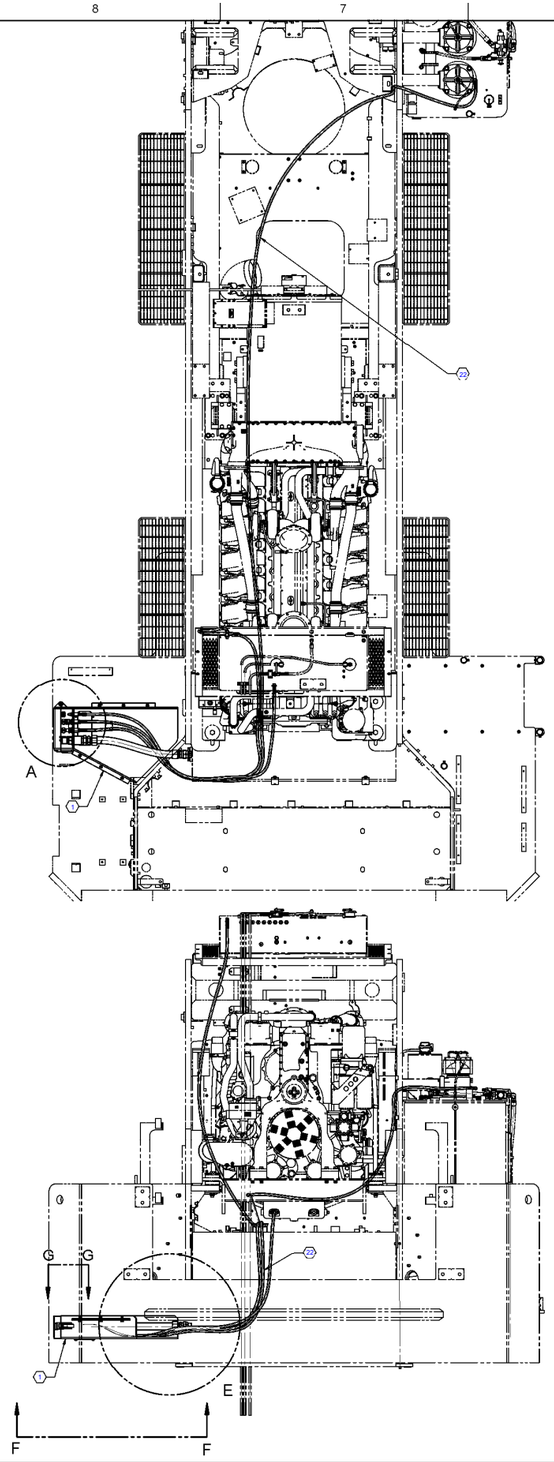
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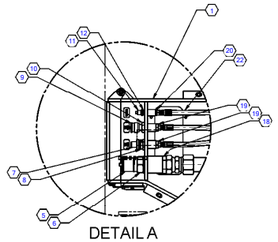
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

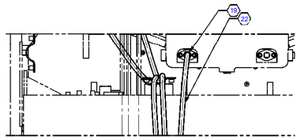
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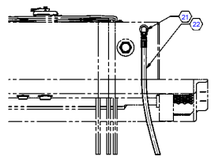
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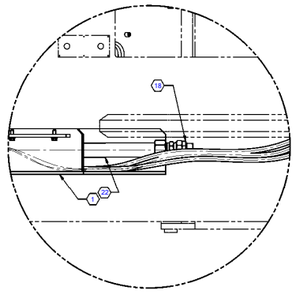
CENTRAL SERVICE GROUP

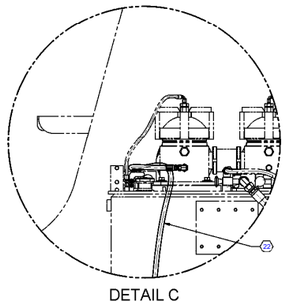


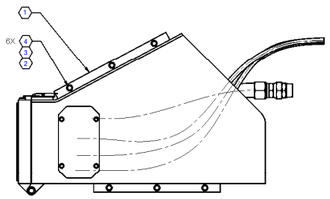

DETAIL A

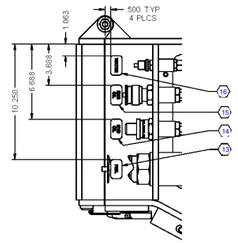

VIEW D-D
1:8


SECTION B-B
1:8

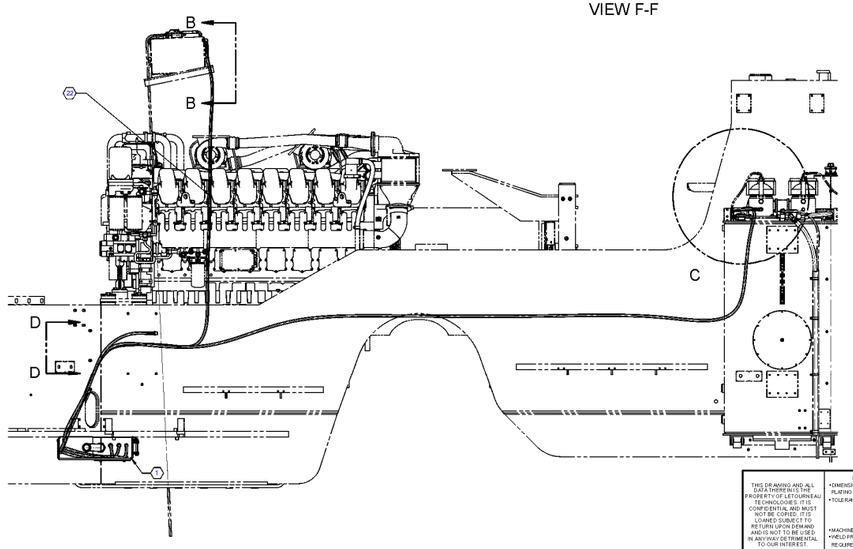

DETAIL E


DETAIL C


VIEW F-F



SECTION G-G



* NOT SHOWN

ITEM	PART NO.	QTY	DESCRIPTION
22	4274928	1	KIT HOSE CENTRAL SRV L1850 DDC
21	4020757	1	FTG HYD 90 .8 MJ .8 MP
20	4018666	1	FTG HYD .0 .8 MJ .8 MP JUMP
19	4040558	3	FTG HYD .0 .8 MJ 12 MP JUMP
18	9402716	2	FTG HYD .0 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 WS#EC285A8
11	4122808	1	CAP WATER CONNECTOR
10	4065069	1	ENGINE OIL CONNECTOR WS#GN2
9	4122807	1	CAP ENGINE OIL CONNECTOR*
8	4065070	1	HYD OIL CONN WS#6005A12
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	0810901	6	WASHER FLAT .531 1.062 .121
1	4264341	1	STR WIGGINS SERV BOX

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- 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

LeTourneau Technologies™

DWN	khardy	03-12-2012
CHK	TMW	03-12-2012
ENGR	TMW	03-12-2012
PROD ENGR		
PROJ APPROVAL		
MATL		

GP WIGGINS CNTRL SRV L18 DDC

SIZE E | DO NOT SCALE | DRAWING 4267002 | REV 01

SCALE 1:16 | WEIGHT 345.6 lbm | SHEET 1 OF 1

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4267002		CENTRAL SERVICE GROUP		8/4/17
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	R4274928	1	· HOSE KIT, CENTRAL SERVICE		8/4/17
	R4093111	1	· · HOSE ASSEMBLY, #8 X 264"		
	R4094068	1	· · HOSE ASSEMBLY, #8 X 154"		
	R4097528	1	· · HOSE ASSEMBLY, #8 X 430"		
	R4186136	1	· · HOSE ASSEMBLY, #32 X 35"		10/28/11
			DRAWING, CENTRAL SERVICE GROUP (426700201)		8/4/17

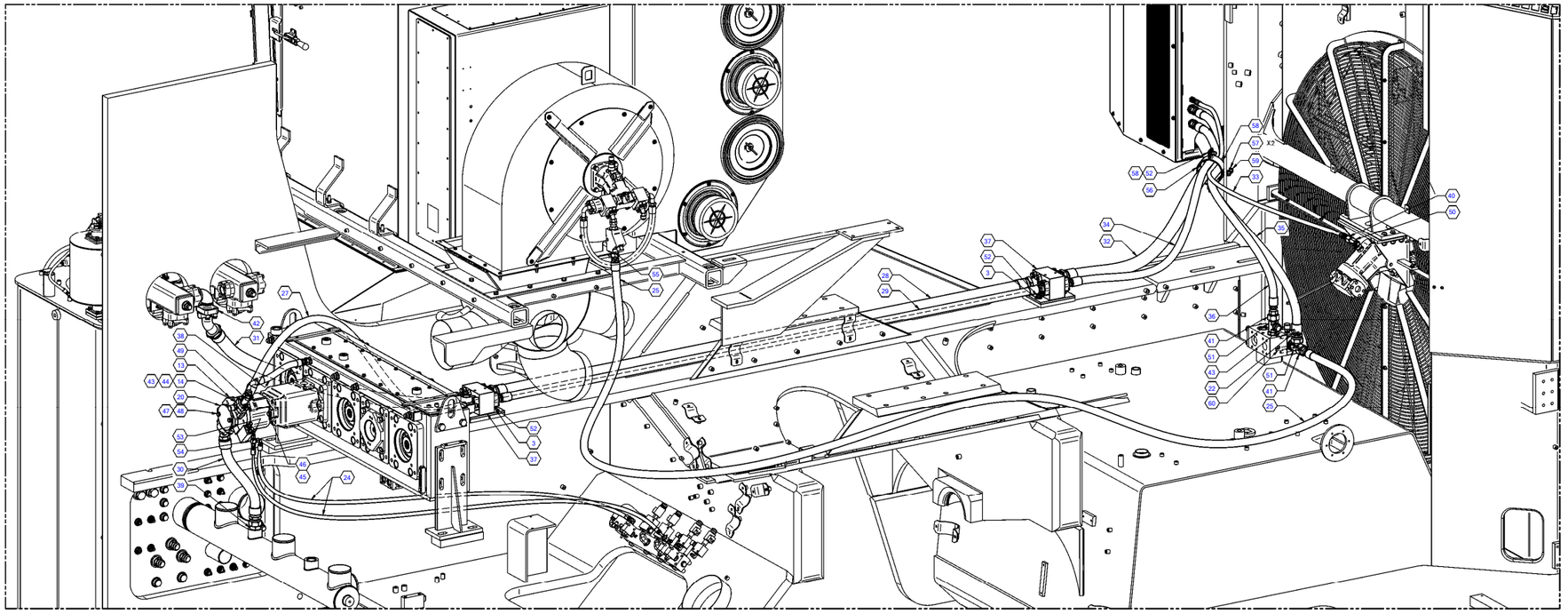
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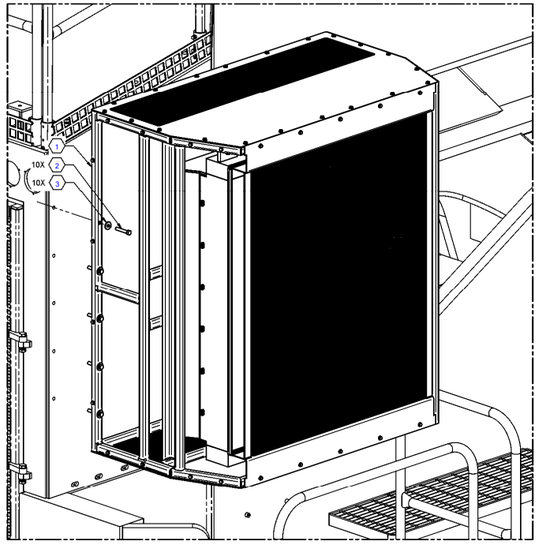
Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AUXILIARY HYDRAULIC OIL COOLER





ITEM	PART NO.	QTY	DESCRIPTION
60	4009757	4	BOLT HX .500 4.000 NC G8
59	0808489	2	NUT HX .500 NC
58	4273455	1	STR CLAMP 5 INCH
57	0810991	4	WASHER FLAT .531 1.062 .121
56	0987422	1	CLAMP HALF 6 INCH
55	4143853	1	FTG HYD 0 16 MJ 12 MO JUMP
54	4131486	1	FTG HYD TE 6 MJ 6 FJ 6 MJ
53	4179624	1	FTG HYD 90 6 MJ 4 MO
52	4009752	6	BOLT HX .500 1.250 NC G8 FT
51	4267960	2	FTG HYD TE 20 MJ 20 MO 20 MJ
50	4243656	1	FTG HYD TE 12 MJ 12 MJ 12 FJ
49	4002457	1	FTG HYD 0 12 MJ 12 MO
48	4103848	2	BOLT HX M10 x 1.50 x 25 (0.98)
47	4241873	2	WASHER LOCK SPR M10.0 18.1 2.1
46	4240796	2	BOLT, M12 X 1.75 X 40 (1.58) LG
45	0801181	2	WASHER LOCK SPR .500 .873 .125
44	4261677	1	PLUG HOLLOW HEX 6 MO
43	4223018	2	HYD COUPLER ASSY, MALE, 6 MO
42	4172129	1	STR ELB-SAE-2-90°C61-80
41	4270898	2	FTG HYD 0 20 FJ 16 MJ
40	6982831	1	FTG HYD 0 8 MJ 12 FJ SWL
39	4002461	1	FTG HYD 0 24 MJ 24 MO
38	4243506	1	HOSE 1250 12 16.0 0J 90J
37	4273725	2	MANIFOLD STR
36	4033602	1	HOSE 1000 16 62.0 0J 0J
35	4270946	1	HOSE 625 20 140.0 0J 0J
34	4243921	1	HOSE 4000 16 72.0 0J 0F
33	4150900	1	HOSE 2000 8 60.0 0J 0J
32	4270948	1	HOSE 375 32 100.0 0J 0F
31	4270943	1	HOSE 375 32 70.0 0F 45F
30	4261672	1	HOSE 500 24 23.0 0J 45F
29	4270942	1	HOSE 4000 16 130.0 0F 0F
28	4270941	1	HOSE 375 32 130.0 0F 0F
27	4270940	1	HOSE 4000 16 108.0 0F 45F
25	4270899	1	HOSE 1000 16 300.0 0J 0J
24	4270939	2	HOSE 4000 6 160.0 0J 90J
22	4273392	1	MANIFOLD 2.00 SF X 20 SAE PORT
20	4256502	1	COVER - SAE A
14	4011932	1	GAE TEGT BLOCK
13	4256463	1	PUMP-PSTN-45 CM² (2.75 IN²) LH
3	4223104	14	WASHER CON .531 1.38 .15 HRD
2	4009754	10	BOLT HX .500 3.00 NC G8
1	4271151	1	ASSY AUX OIL COOLER L1850 G2

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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

		DATE
DWN		
CHK		
ENGR		
PROD ENGR		
PROJ APPROVAL		
MATL		

LeTourneau Technologies™

KIT AUX OIL COOLER L1850 G2

SIZE E | DO NOT SCALE | DWG NO. 4271226 | REV 02

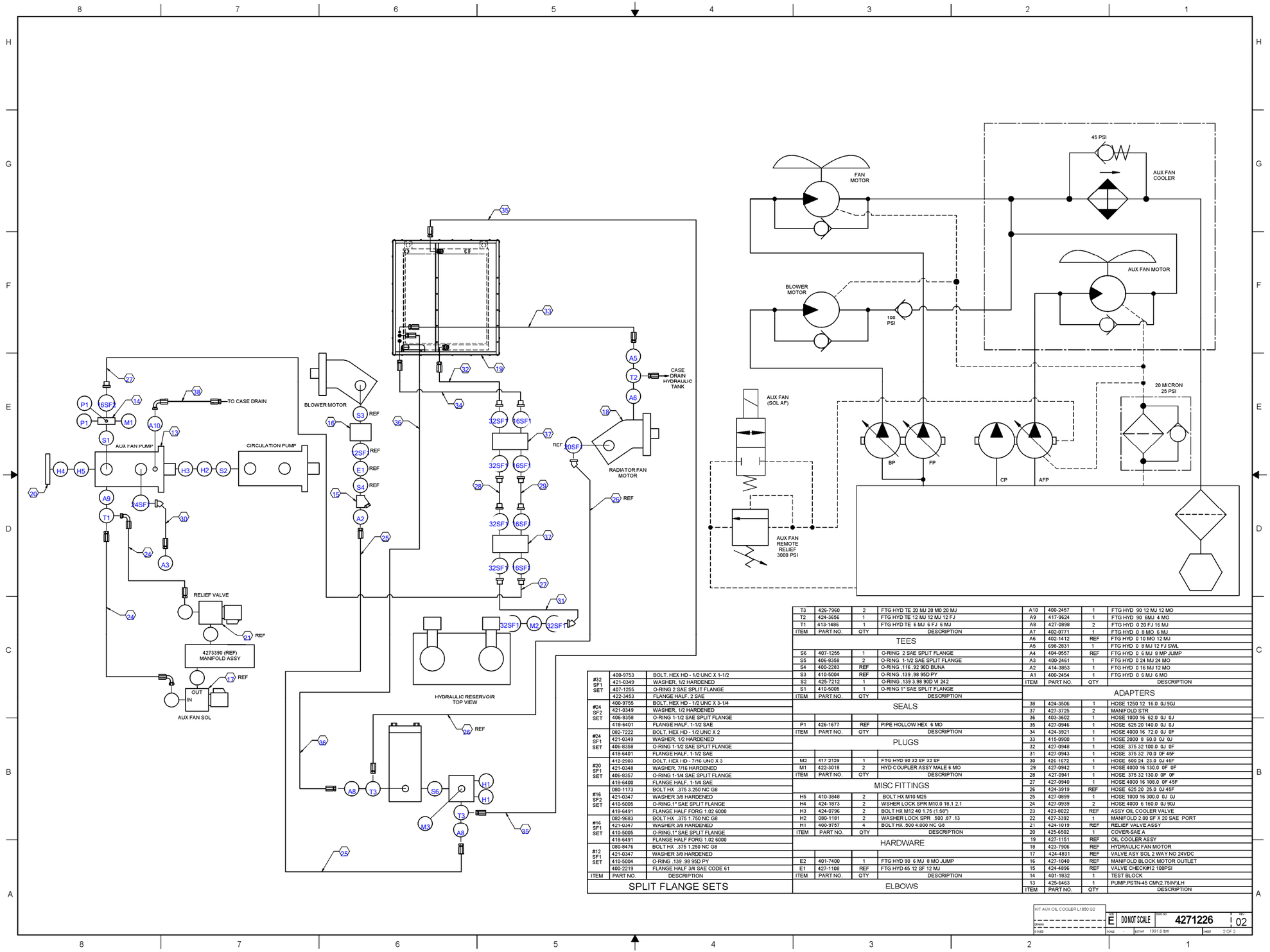
SCALE 1/9 | WT 1991.8 lbm | SHEET 1 OF 2

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AUXILIARY HYDRAULIC OIL COOLER

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AUXILIARY HYDRAULIC OIL COOLER



ITEM	PART NO.	QTY	DESCRIPTION
			TEES
S6	407-1255	1	O-RING .2 SAE SPLIT FLANGE
S5	406-8358	2	O-RING .1-1/2 SAE SPLIT FLANGE
S4	400-2283	REF	O-RING .116 .92 90D BUNA
S3	410-5004	REF	O-RING .139 .98 95D PY
S2	425-7212	1	O-RING .139 3.98 90D VI .242
S1	410-5005	1	O-RING 1" SAE SPLIT FLANGE
			SEALS
P1	426-1677	REF	PIPE HOLLOW HEX .6 MO
ITEM	PART NO.	QTY	DESCRIPTION
			PLUGS
M2	417 2129	1	FTG HYD 90 32 SF 32 SF
M1	422-3018	2	HYD COUPLER ASSY MALE 6 MO
ITEM	PART NO.	QTY	DESCRIPTION
			MISC FITTINGS
H5	410-3848	2	BOLT HX M10 M25
H4	424-1873	2	WSHER LOCK SPR M10.0 18.1 2.1
H3	424-0796	2	BOLT HX M12 40 1.75 (1.58")
H2	080-1181	2	WASHER LOCK SPR .500 .87 .13
H1	400-9757	4	BOLT HX .500 4.000 NC G8
ITEM	PART NO.	QTY	DESCRIPTION
			HARDWARE
E2	401-7400	1	FTG HYD 90 6 MJ 8 MO JUMP
E1	427-1108	REF	FTG HYD 45 12 SF 12 MJ
ITEM	PART NO.	QTY	DESCRIPTION
			ELBOWS
T3	426-7960	2	FTG HYD TE 20 MJ 20 MO 20 MJ
T2	424-3656	1	FTG HYD TE 12 MJ 12 MJ 12 FJ
T1	413-1486	1	FTG HYD TE 6 MJ 6 FJ 6 MJ
ITEM	PART NO.	QTY	DESCRIPTION

A10	400-2457	1	FTG HYD 90 12 MJ 12 MO
A9	417-9624	1	FTG HYD 90 6MJ 4 MO
A8	427-0898	2	FTG HYD 0 20 FJ 16 MJ
A7	402-0771	1	FTG HYD 0 8 MO 6 MJ
A6	402-1412	REF	FTG HYD 0 10 MO 12 MJ
A5	698-2831	1	FTG HYD 0 8 MJ 12 FJ SWL
A4	404-0557	REF	FTG HYD 0 6 MJ 8 MP JUMP
A3	400-2461	1	FTG HYD 0 24 MJ 24 MO
A2	414-3853	1	FTG HYD 0 16 MJ 12 MO
A1	400-2454	1	FTG HYD 0 6 MJ 6 MO
ITEM	PART NO.	QTY	DESCRIPTION
			ADAPTERS
38	424-3506	1	HOSE 1250 12 16.0 0J 90J
37	427-3725	2	MANIFOLD STR
36	403-3602	1	HOSE 1000 16 62.0 0J 0J
35	427-0946	1	HOSE 625 20 140.0 0J 0J
34	424-3921	1	HOSE 4000 16 72.0 0J 0F
33	415-0900	1	HOSE 2000 8 60.0 0J 0J
32	427-0948	1	HOSE 375 32 100.0 0J 0F
31	427-0943	1	HOSE 375 32 70.0 0F 45F
30	426-1672	1	HOSE 500 24 23.0 0J 45F
29	427-0942	1	HOSE 4000 16 130.0 0F 0F
28	427-0941	1	HOSE 375 32 130.0 0F 0F
27	427-0940	1	HOSE 4000 16 108.0 0F 45F
26	424-3919	REF	HOSE 625 20 25.0 0J 45F
25	427-0899	1	HOSE 1000 16 300.0 0J 0J
24	427-0939	2	HOSE 4000 6 160.0 0J 90J
23	423-8022	REF	ASSY OIL COOLER VALVE
22	427-3392	1	MANIFOLD 2.00 SF X 20 SAE PORT
21	424-1019	REF	RELIEF VALVE ASSY
20	425-6502	1	COVER-SAE A
19	427-1151	REF	OIL COOLER ASSY
18	423-7906	REF	HYDRAULIC FAN MOTOR
17	424-4831	REF	VALVE ASY SOL 2 WAY NO 24VDC
16	427-1040	REF	MANIFOLD BLOCK MOTOR OUTLET
15	424-4896	REF	VALVE CHECK#12 100PSI
14	401-1832	1	TEST BLOCK
13	425-6463	1	PUMP,PSTN-45 CMP(2.75IN)LH
ITEM	PART NO.	QTY	DESCRIPTION

#32 SF1 SET	400-9753		BOLT, HEX HD - 1/2 UNC X 1-1/2
	421-0349		WASHER, 1/2 HARDENED
	407-1255		O-RING 2 SAE SPLIT FLANGE
	422-3453		FLANGE HALF, 2 SAE
#24 SF2 SET	400-9755		BOLT, HEX HD - 1/2 UNC X 3-1/4
	421-0349		WASHER, 1/2 HARDENED
	406-8358		O-RING 1-1/2 SAE SPLIT FLANGE
	418-6401		FLANGE HALF, 1-1/2 SAE
#24 SF1 SET	080-7222		BOLT, HEX HD - 1/2 UNC X 2
	421-0349		WASHER, 1/2 HARDENED
	406-8358		O-RING 1-1/2 SAE SPLIT FLANGE
	418-6401		FLANGE HALF, 1-1/2 SAE
#20 SF1 SET	412-2903		DOLT, HEX HD - 7/16 UNC X 3
	421-0348		WASHER, 7/16 HARDENED
	406-8357		O-RING 1-1/4 SAE SPLIT FLANGE
	418-6400		FLANGE HALF, 1-1/4 SAE
#16 SF2 SET	080-1173		BOLT HX .375 3.250 NC G8
	421-0347		WASHER 3/8 HARDENED
	410-5005		O-RING,1" SAE SPLIT FLANGE
	418-6491		FLANGE HALF FORG 1.02 6000
#16 SF1 SET	082-9683		BOLT HX .375 1.750 NC G8
	421-0347		WASHER 3/8 HARDENED
	410-5005		O-RING,1" SAE SPLIT FLANGE
	418-6491		FLANGE HALF FORG 1.02 6000
#12 SF1 SET	080-8476		BOLT HX .375 1.250 NC G8
	421-0347		WASHER 3/8 HARDENED
	410-5004		O-RING .139 .98 95D PY
	400-2219		FLANGE HALF 3/4 SAE CODE 61
ITEM	PART NO.		DESCRIPTION
			SPLIT FLANGE SETS

KIT AUX OIL COOLER L1850 02

SIZE	E	DO NOT SCALE	DWG NO. 4271226
SCALE	-	WEIGHT 1991.8 lbm	SHEET 2 OF 2

REV 02

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AUXILIARY HYDRAULIC OIL COOLER

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AUXILIARY HYDRAULIC OIL COOLER

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271226		AUXILIARY HYDRAULIC OIL COOLER		3/9/16
1	R4271151	1	· OIL COOLER ASSEMBLY		
2	R4223104	14	· FLATWASHER, 1/2" I.D. X 1-3/8" O.D. X 1/8" - CONICAL		
3	R4009754	10	· BOLT, 1/2"-13 X 3"		
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	N.P.N.		· NOT USED		
9	N.P.N.		· NOT USED		
10	N.P.N.		· NOT USED		
11	N.P.N.		· NOT USED		
12	N.P.N.		· NOT USED		
13	R4256463	1	· PUMP, PISTON - 45 CM3 L.H.		
14	R4011832	1	· TEST BLOCK, 1"		
15	R4244896	REF	· VALVE, CHECK - #12, 100 PSI		
16	R4271040	REF	· BLOCK, MANIFOLD - MOTOR OUTLET		
17	R4244831	REF	· VALVE ASSEMBLY, SOLENOID - 2-WAY N.O.		
	R4244836		· · COIL, 24VDC		
	R4138101		· · SEAL KIT		
18	N.P.N.	REF	· MOTOR, FAN (PAGE 8.6-8.6A)		3/9/16
19	R4271151	REF	· OIL COOLER ASSEMBLY		
20	R4256502	1	· COVER		
21	R4241019	REF	· VALVE ASSEMBLY, RELIEF - 500-5000 PSI		
22	R4273392	1	· MANIFOLD, 2" SF X #20 PORT		
23	R4238022	REF	· VALVE ASSEMBLY, OIL COOLER		
24	R4270939	2	· HOSE ASSEMBLY, #6 X 160"		
25	R4270899	1	· HOSE ASSEMBLY, #16 X 300"		
26	R4243919	REF	· HOSE ASSEMBLY, #20 X 25"		
27	R4270940	1	· HOSE ASSEMBLY, #16 X 108"		
28	R4270941	1	· HOSE ASSEMBLY, #32 X 130"		
29	R4270942	1	· HOSE ASSEMBLY, #16 X 130"		
30	R4261672	1	· HOSE ASSEMBLY, #24 X 23"		
31	R4270943	1	· HOSE ASSEMBLY, #32 X 70"		
32	R4270948	1	· HOSE ASSEMBLY, #32 X 100"		
33	R4150900	1	· HOSE ASSEMBLY, #8 X 60"		
34	R4243921	1	· HOSE ASSEMBLY, #16 X 72"		
35	R4270946	1	· HOSE ASSEMBLY, #20 X 140"		
36	R4033602	1	· HOSE ASSEMBLY, #16 X 62"		
37	R4273725	2	· MANIFOLD STRUCTURE		
38	R4243506	1	· HOSE ASSEMBLY, #12 X 16"		
39	R4002461	1	· ADAPTER, #24 MO X #24 MJ		
40	R6982831	1	· ADAPTER, #12 FJ X #8 MJ - SWIVEL		
41	R4270898	2	· ADAPTER, #20 FJ X #16 MJ		
42	R4172129	1	· ELBOW, #32 SF X 90 deg. X #32 SF		
43	R4223018	2	· COUPLING ASSEMBLY, QUICK - MALE X #6 MO		
	R4222435	1	· · COUPLING, QUICK - MALE X 1/4" FP		
	R4222437	1	· · CAP, QUICK COUPLING		
	R4051567	1	· · ADAPTER, 1/4" MP X #6 MJ		
	R4133132	1	· · O-RING, 1/2" I.D. - POLYURETHANE		
44	R4261677	1	· PLUG, #6 MO		
45	R0801181	2	· LOCKWASHER, 1/2"		
46	R4240796	2	· BOLT, 12 MM X 1.75 X 40 MM		
47	R4241873	2	· LOCKWASHER, 10 MM		
48	R4103848	2	· BOLT, 10 MM X 1.50 X 25		
49	R4002457	1	· ADAPTER, #12 MO X #12 MJ		
50	R4243656	1	· TEE, #12 MJ X #12 MJ X #12 FJ		
51	R4267960	2	· TEE, #20 MJ X #20 MO X #20 MJ		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
52	R4009752	6	· BOLT, 1/2"-13 X 1-1/4"		
53	R4179624	1	· ELBOW, #6 MJ X 90 deg. X #4 MO		
54	R4131486	1	· TEE, #6 MJ X #6 FJ X #6 MJ		
55	R4143853	1	· ADAPTER, #12 MO X #16 MJ		
56	R0987622	1	· CLAMP HALF, 5"		
57	R0810991	4	· FLATWASHER, 1/2" X 1" X 1/8"		
58	R4273455	1	· CLAMP STRUCTURE, 5"		
59	R0808489	2	· NUT, 1/2"-13		
60	R4009757	4	· BOLT, 1/2"-13 X 4"		
61	N.P.N.		· NOT USED		
			·		
A1	R4002454	1	· ADAPTER, #6 MO X #6 MJ		
A2	R4143853	1	· ADAPTER, #12 MO X #16 MJ		
A3	R4002461	1	· ADAPTER, #24 MO X #24 MJ		
A4	R4040557	REF	· ADAPTER, 1/2" MP X #6 MJ		
A5	R6982831	1	· ADAPTER, #12 FJ X #8 MJ - SWIVEL		
A6	R4021412	REF	· ADAPTER, #10 MO X #12 MJ		
A7	R4020771	1	· ADAPTER, #8 MO X #6 MJ		
A8	R4270898	2	· ADAPTER, #20 FJ X #16 MJ		
A9	R4179624	1	· ELBOW, #6 MJ X 90 deg. X #4 MO		
A10	R4002457	1	· ADAPTER, #12 MO X #12 MJ		
A11	N.P.N.		· NOT USED		
			·		
E1	R4271108	REF	· ELBOW, #12 SF X 45 deg. X #12 MJ		
E2	R4017400	1	· ELBOW, #8 MO X 90 deg. X #6 MJ - ADJ.		
E3	N.P.N.		· NOT USED		
			·		
H1	R4009757	4	· BOLT, 1/2"-13 X 4"		
H2	R0801181	2	· LOCKWASHER, 1/2"		
H3	R4240796	2	· BOLT, 12 MM X 1.75 X 40 MM		
H4	R4241873	2	· LOCKWASHER, 10 MM		
H5	R4103848	2	· BOLT, 10 MM X 1.50 X 25		
H6	N.P.N.		· NOT USED		
			·		
M1	R4223018	1	· COUPLING ASSEMBLY, QUICK - MALE X #6 MO		
	R4222435	1	· · COUPLING, QUICK - MALE X 1/4" FP		
	R4222437	1	· · CAP, QUICK COUPLING		
	R4051567	1	· · ADAPTER, 1/4" MP X #6 MJ		
	R4133132	1	· · O-RING, 1/2" I.D. - POLYURETHANE		
M2	R4172129	1	· ELBOW, #32 SF X 90 deg. X #32 SF		
M3	N.P.N.		· NOT USED		
			·		
P1	R4261677	1	· PLUG, #6 MO		
P2	N.P.N.		· NOT USED		
			·		
S1	R4105005	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
S2	R4257212	1	· O-RING, 4" I.D. - VITON		
S3	R4105004	REF	· O-RING, 1" I.D. - POLYURETHANE		
S4	R4002283	REF	· O-RING, 15/16" I.D. - BUNA N		
S5	R4068358	2	· O-RING, 1-7/8" I.D. - POLYURETHANE		
S6	R4071255	1	· O-RING, 2-1/4" I.D. - POLYURETHANE		
S7	N.P.N.		· NOT USED		
			·		
T1	R4131486	1	· TEE, #6 MJ X #6 FJ X #6 MJ		
T2	R4243656	1	· TEE, #12 MJ X #12 MJ X #12 FJ		
T3	R4267960	2	· TEE, #20 MJ X #20 MO X #20 MJ		
T4	N.P.N.		· NOT USED		
			·		

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AUXILIARY HYDRAULIC OIL COOLER

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
12SF1	R4002219	2	· FLANGE HALF, 3/4"		
	R4105004	1	· O-RING, 1" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R0808476	4	· BOLT, 3/8"-16 X 1-1/4"		
			·		
16SF1	R4186491	2	· FLANGE HALF, 1"		
	R4105005	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R0829683	4	· BOLT, 3/8"-16 X 1-3/4"		
			·		
16SF2	R4186491	2	· FLANGE HALF, 1"		
	R4105005	1	· O-RING, 1-1/4" I.D. - POLYURETHANE		
	R4210347	4	· FLATWASHER, 3/8" - HARDENED		
	R0801173	4	· BOLT, 3/8"-16 X 3-1/4"		
			·		
20SF1	R4186400	2	· FLANGE HALF, 1-1/4"		
	R4068357	1	· O-RING, 1-1/2" I.D. - POLYURETHANE		
	R4210348	4	· FLATWASHER, 7/16" - HARDENED		
	R4122903	4	· BOLT, 7/16"-14 X 3"		
			·		
24SF1	R4186401	2	· FLANGE HALF, 1-1/2"		
	R4068358	1	· O-RING, 1-7/8" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R0827222	4	· BOLT, 1/2"-13 X 2"		
			·		
24SF2	R4186401	2	· FLANGE HALF, 1-1/2"		
	R4068358	1	· O-RING, 1-7/8" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R4009755	4	· BOLT, 1/2"-13 X 3-1/4"		
			·		
32SF1	R4223453	2	· FLANGE HALF, 2"		
	R4071255	1	· O-RING, 2-1/4" I.D. - POLYURETHANE		
	R4210349	4	· FLATWASHER, 1/2" - HARDENED		
	R4009753	4	· BOLT, 1/2"-13 X 1-1/2"		
		REF	DRAWING, AUXILIARY HYDRAULIC OIL COOLER (R427122602)		

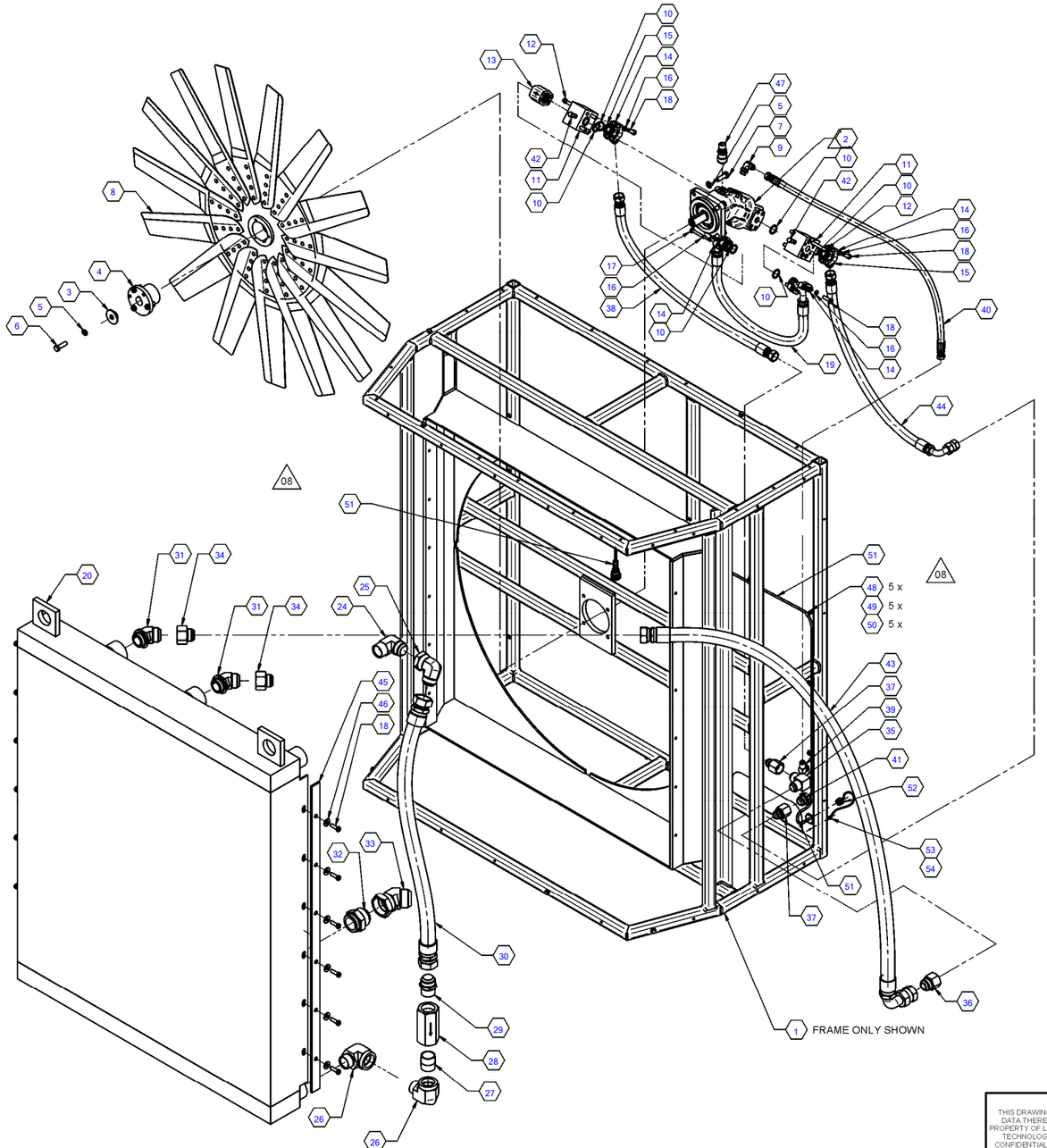
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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AUXILIARY OIL COOLER ASSEMBLY



ITEM	PART NO.	QTY	DESCRIPTION
54	4153670	1	MSCR PH #10-32 UNF X .5 SS
53	4129670	1	WASHER, LCK, SPR, #10 SS
52	4274455	1	CAP 7/8 MALE TURCK WITH CABLE
51	4274454	1	OIL COOLER BLOWER SPD SENSOR CABLE
50	0417597	5	BOLT HEX .250 .500 NC G8 FT
49	0213584	5	WASHER LOCK SPR .25 .49 .06
48	0989002	5	CLAMP CABLE INSL .250 .281
47	4267540	1	SPEED SENSOR INDUCTIVE
46	4223102	12	WASHER .375 HARD CONICAL
45	4274724	2	BAR FLAT .25 1.50 49.80 6 HOLE
44	4182366	1	HOSE 4000 12 32.0 0J 90J
43	4143759	1	HOSE 3000 20 70.0 0J 90J
42	4013779	2	PIPE PLUG 1/4 NPT HEX HEAD
41	4179877	1	FTG HYD 0 16 MJ 16 MJ BH
40	4186156	1	HOSE 2000 8 41.0 0J 0J
39	4016701	1	FTG HYD 90 8 MJ 8 MJ BH
38	4193558	1	HOSE 4000 12 34.0 0J 0J
37	4243671	2	FTG HYD 0 12 MJ 16 FJ
36	4271164	1	FTG HYD 0 16 FJ 20 MJ
35	4271163	1	FTG HYD TE 16 MJ 16 MJ 16 MJBH
34	4244552	2	FTG HYD 0 24 FJ 20 MJ
33	4243711	1	FTG HYD 45 32 MJ 32 FJ
32	4233411	1	FTG HYD 0 32 MJ 32 MO
31	4002469	2	FTG HYD 45 24 MJ 24 MO
30	4078331	1	HOSE 500 24 44.0 0J 0J
29	4002426	1	FTG HYD 0 24 MJ 24 MP
28	4073161	1	VALVE CHECK 1-1/2 NPT 45 PSI
27	4012840	1	PIPE NIP 1.500 2.000 700
26	4223398	2	FTG HYD 90 24 MP 24 FP
25	4002485	1	FTG HYD 90 24 MJ 24 FJ SWVL
24	4002445	1	FTG HYD 90 24 MJ 24 MP
20	4223375	1	OIL COOLER
19	4267489	1	HOSE 4000 12 33.0 90F 90F
18	0808476	24	BOLT HX .375 1.250 NC G8
17	4009645	4	BOLT HX .375 3.00 NC G8
16	4210347	16	WASHER FLAT .375 .56 .13 HRD
15	4271108	2	FTG HYD 45 12 SF 12 MJ
14	4002219	8	HYD SPLIT FLANGE HALF 3/4 CPL
13	4271110	1	CHECK VALVE 3/4 SPLIT FLGE
12	4001842	8	CSCR FH .375 3.00 NC G8
11	4271040	2	MANIFOLD BLOCK MOTOR OUTLET
10	4105004	6	O-RING .139 .984 95D PY
9	4002471	1	FTG HYD 90 8 MJ 8 MO
8	4261253	1	FAN 48 DIA W/HUB
7	4009753	4	BOLT HX .500 1.500 NC G8
6	4240796	1	BOLT, M12 X 1.75 X 40 (1.58) LG
5	0801181	5	WASHER LOCK SPR .500 .873 .125
4	4267980	1	SPLIT TAPER BUSHING 30 MM
3	4271041	1	WASHER - RETAINER
2	4267539	1	MTR-PSTN-45 CC W/SPD SNSR PROD
1	4273438	1	ASSY AUX OIL COOLER FRM/PANELS

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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 .188 X .45°
- WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.

THIRD ANGLE PROJECTION

FIRST USED ON/CONTRACT NO

	DATE
DWN	6-21-10
CHK	6-22-10
ENGR	
PROD ENGR	6-22-10
PROJ APPROVAL	
MATL	

LeTourneau Technologies™

ASM AUX OIL CLR L13/18/2350 G2

SIZE D | DO NOT SCALE | DWG NO. 4271151 | REV 08

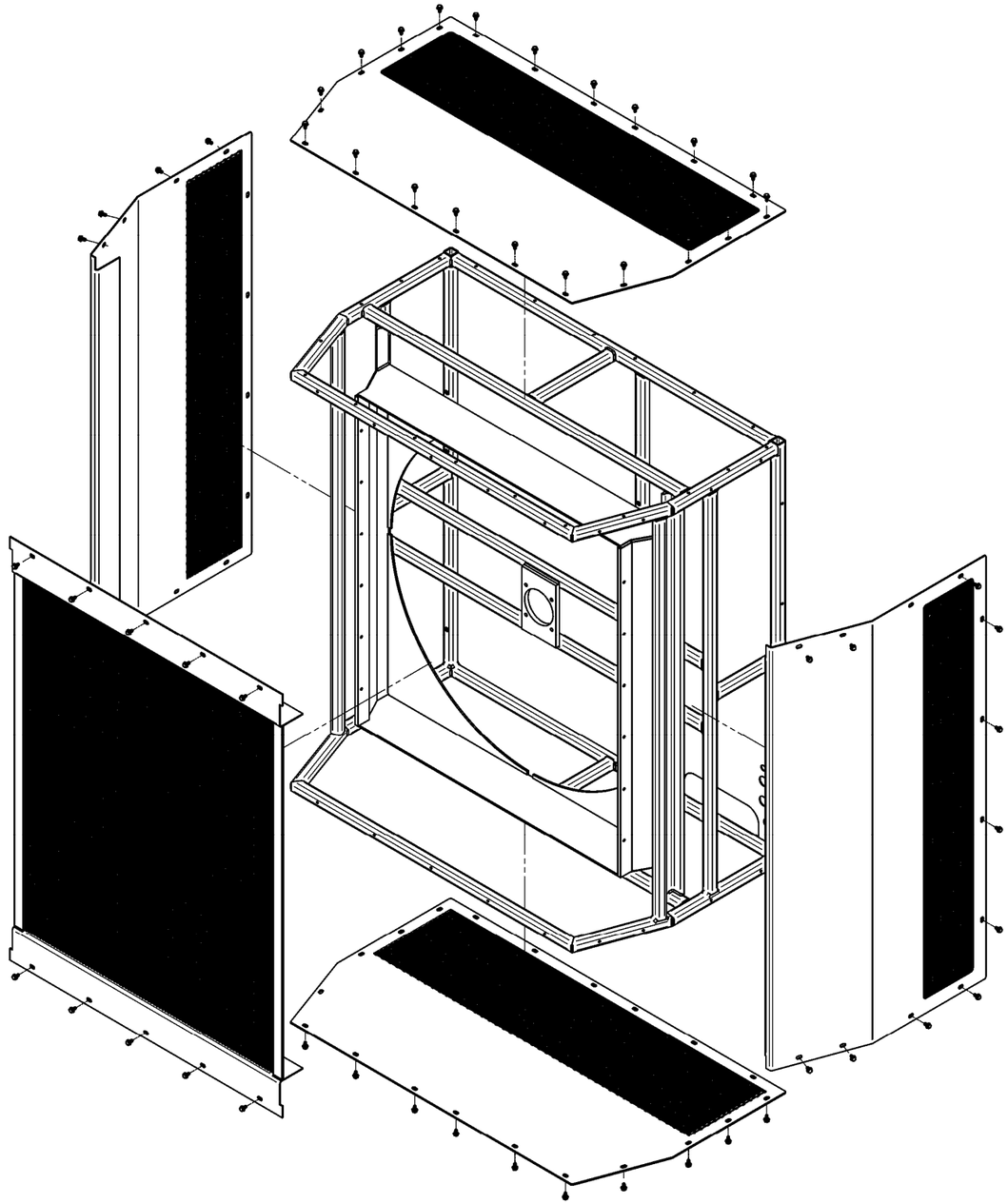
SCALE 1/8 | EST WT 1863.6 lbm | SHEET 1 OF 2

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AUXILIARY OIL COOLER ASSEMBLY

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AUXILIARY OIL COOLER ASSEMBLY



ITEM 1 EXPLODED VIEW (REF)

ASM AUX OIL CLR L13/18/2350 G2	SIZE D	DO NOT SCALE	DWG NO. 4271151	REV 08	
DRAWN					
ISSUED 6-22-10	SCALE 1/8	EST WT 1863.6 lbm	SHEET 2 OF 2		

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AUXILIARY OIL COOLER ASSEMBLY

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AUXILIARY OIL COOLER ASSEMBLY

Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4271151		AUXILIARY OIL COOLER ASSEMBLY		1/11/17
1	R4273438	1	· FRAME ASSEMBLY, AUXILIARY OIL COOLER		1/24/13
	R4271152	1	· · FRAME STRUCTURE, AUXILIARY OIL COOLER		1/24/13
	R4273386	2	· · COVER STRUCTURE, BOTTOM AND TOP		1/24/13
	R4273388	2	· · COVER STRUCTURE, SIDE		1/24/13
	R4271184	1	· · COVER STRUCTURE, FRONT		1/24/13
	R4264817	74	· · SCREW, 5/16"-12 X 5/8"		1/24/13
	R4271181	2	· · SEAL, 47"		1/24/13
	R4271179	2	· · SEAL, 53-3/4"		1/24/13
2	R4267539	1	· MOTOR, PISTON - 45CC		4/11/16
3	R4271041	1	· WASHER, RETAINER		
4	R4267980	1	· BUSHING, SPLIT TAPER - 30 MM		
5	R0801181	5	· LOCKWASHER, 1/2"		
6	R4240796	1	· BOLT, 12 MM X 1.75 X 40 MM		
7	R4009753	4	· BOLT, 1/2"-13 X 1-1/2"		
8	R4261253	1	· FAN ASSEMBLY, 48" - WITH HUB		
9	R4002471	1	· ELBOW, #8 MO X 90 deg. X #8 MJ - ADJ.		
10	R4105004	6	· O-RING, 1" I.D. - POLYURETHANE		
11	R4271040	2	· BLOCK, MANIFOLD - MOTOR OUTLET		
12	R4001842	8	· CAPSCREW, 3/8"-16 X 3"		
13	R4271110	1	· VALVE ASSEMBLY, CHECK - 3/4", SF		
	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
14	R4002219	8	· FLANGE HALF, 3/4"		
15	R4271108	2	· ELBOW, #12 SF X 45 deg. X #12 MJ		
16	R4210347	16	· FLATWASHER, 3/8" - HARDENED		
17	R4009645	4	· BOLT, 3/8"-16 X 3"		
18	R0808476	24	· BOLT, 3/8"-16 X 1-1/4"		1/24/13
19	R4267489	1	· HOSE ASSEMBLY, #12 X 33"		
20	R4223375	1	· OIL COOLER		
21	N.P.N.		· NOT USED		1/24/13
22	N.P.N.		· NOT USED		1/24/13
23	N.P.N.		· NOT USED		1/24/13
24	R4002445	1	· ELBOW, #24 MJ X 90 deg. X 1-1/2" MP		
25	R4002485	1	· ELBOW, #24 FJ X 90 deg. X #24 MJ - SWIVEL		
26	R4223398	2	· ELBOW, 1-1/2" FP X 90 deg. X 1-1/2" MP		
27	R4012840	1	· NIPPLE, PIPE - 1-1/2" X 2"		
28	R4073161	1	· VALVE ASSEMBLY, CHECK - INLINE, 45 PSI		
29	R4002426	1	· ADAPTER, 1-1/2" MP X #24 MJ		
30	R4078331	1	· HOSE ASSEMBLY, #24 X 44"		
31	R4002469	2	· ELBOW, #24 MO X 45 deg. X #24 MJ		
32	R4233411	1	· ADAPTER, #32 MO X #32 MJ		
33	R4243711	1	· ELBOW, #32 FJ X 45 deg. X #32 MJ		
34	R4244552	2	· ADAPTER, #24 FJ X #20 MJ		
35	R4271163	1	· TEE, #16 MJ X #16 MJ X #16 MJ - BULKHEAD		
36	R4271164	1	· ADAPTER, #16 FJ X #20 MJ		
37	R4243671	2	· ADAPTER, #16 FJ X #12 MJ		
38	R4193558	1	· HOSE ASSEMBLY, #12 X 34"		
39	R4016701	1	· ELBOW, #8 MJ X 90 deg. X #8 MJ - BULKHEAD		
40	R4186156	1	· HOSE ASSEMBLY, #8 X 41"		
41	R4179877	1	· ADAPTER, #16 MJ X #16 MJ - BULKHEAD		
42	R4013779	2	· PLUG, PIPE - 1/4", HEX HD.		
43	R4143759	1	· HOSE ASSEMBLY, #20 X 70"		
44	R4182366	1	· HOSE ASSEMBLY, #12 X 32"		
45	R4274724	2	· FLATBAR, 49-3/4" - 6 HOLES		1/24/13
46	R4223102	12	· FLATWASHER, 3/8" I.D. X 1" O.D. X 1/16" - CONICAL		1/24/13
47	R4267540	1	· SENSOR ASSEMBLY, SPEED		1/24/13

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
48	R0989002	5	· CLAMP, CABLE - INSULATED, 1/4"		1/24/13
49	R0213584	5	· LOCKWASHER, 1/4"		1/11/17
50	R0417597	5	· BOLT, 1/4"-20 X 1/2"		1/24/13
51	R4274454	1	· CABLE, SPEED SENSOR		1/24/13
52	R4274455	1	· CAP WITH CABLE		1/24/13
53	R4129670	1	· LOCKWASHER, #10		1/24/13
54	R4153670	1	· SCREW, #10-32 X 1/2" - S.S.		1/24/13
	R4271151	REF	DRAWING, AUXILIARY OIL COOLER ASSEMBLY (08)		1/24/13

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4274466		LINCS II SUPPORT GROUP		
1	R4268600	6	· LINCS MAINTENANCE KEY ASSEMBLY		
2	R4268599	1	· USB FLASH DRIVE, HIGH SPEED - 8 GB		
3	R4270252	1	· INPUT SIMULATOR KIT, LINCS II		
4	R4266241	1	· · CABLE EXTENSION, 3 PIN 10M		
5	R4274453	1	· CABLE, 2 PIN 6M		

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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4270328		REAR VISION CAMERA SYSTEM KIT		7/5/17
1	R4270327	1	· REAR VISION CAMERA SYSTEM		
2	R4243456	1	· · CAMERA, REAR VISION CAMERA SYSTEM		
3	R4270326	1	· · MONITOR, REAR VISION CAMERA SYSTEM		
4	R4250900	1	· · CABLE, 65', REAR VISION CAMERA SYSTEM		
5	R4265099	1	· · FUSE, 3A 32V		
6	R4270274	1	· MOUNT, CAMERA - REAR VISION CAMERA SYSTEM		
7	R4274681	1	· MOUNT, REAR VISION MONITOR		10/25/16
8	R4274622	1	· CONNECTOR ASSEMBLY, CABLE		7/5/17

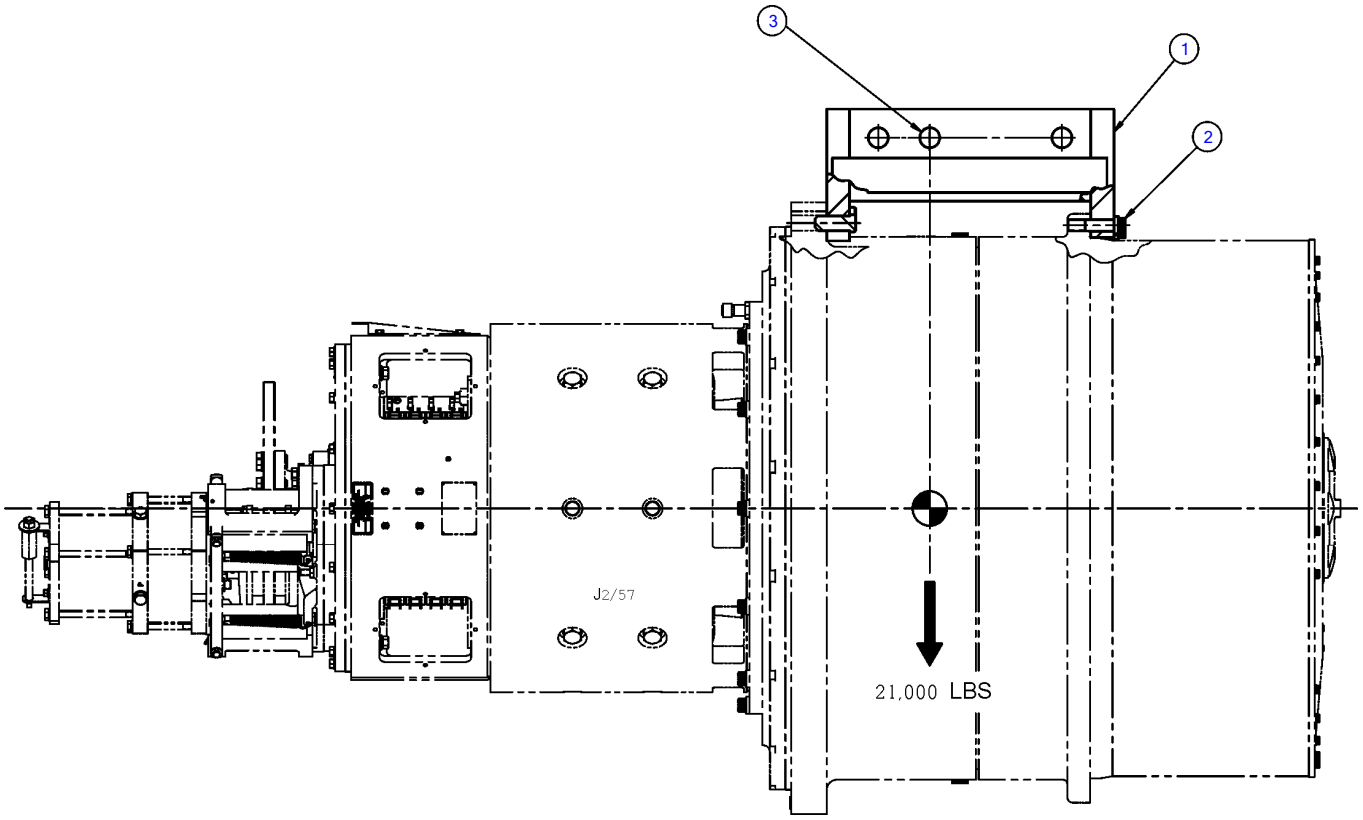
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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DRIVER/MOTOR LIFTING DEVICE



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4217198		57 DRIVER/MOTOR LIFTING FIXTURE		11/12/12
1	R4217199	1	· LIFTING DEVICE		
2	R4152660	5	· CAPSCREW, 1"-8 X 4"		11/12/12
3	R4165039	1	· SHACKLE		
			NOTE:		11/12/12
			· WORKING LOAD LIMIT = 22,000 LBS		
			· LOAD TEST TO 27,500 LBS		
			NOTE:		11/12/12
			· BOLTED END MUST MATE UP BEFORE PIN END OF FIXTURE DOES		
			· IF BOLTED END DOES NOT MATE UP FIRST. INSTALL WASHERS OR SPACERS		
			· TO ENSURE THAT IT DOES. MAXIMUM GAP ALLOWED ON PIN SIDE IS 1/4"		
			DRAWING, 57 DRIVER LIFTING DEVICE (R421719805)		11/12/12

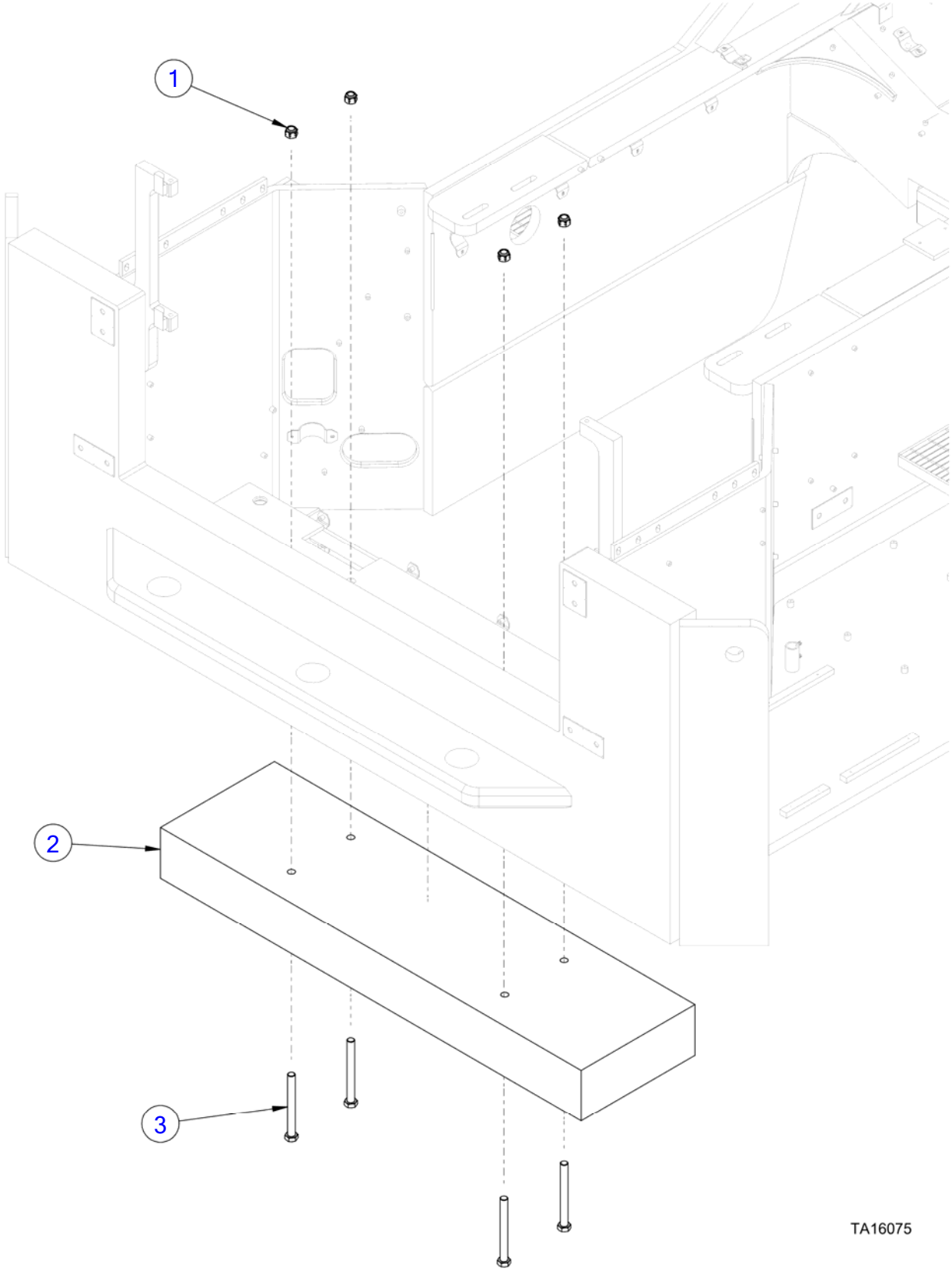
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COUNTERWEIGHT KIT



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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date
	R4273985		COUNTERWEIGHT KIT		3/18/16
1	R4016020	4	· LOCKNUT, 1-1/4"-7 - NYLON		
2	R4273984	1	· COUNTERWEIGHT, 7,200 LB - 26" X 96" X 10"		3/18/16
3	R9432503	4	· BOLT, 1-1/4"-7 X 12"		

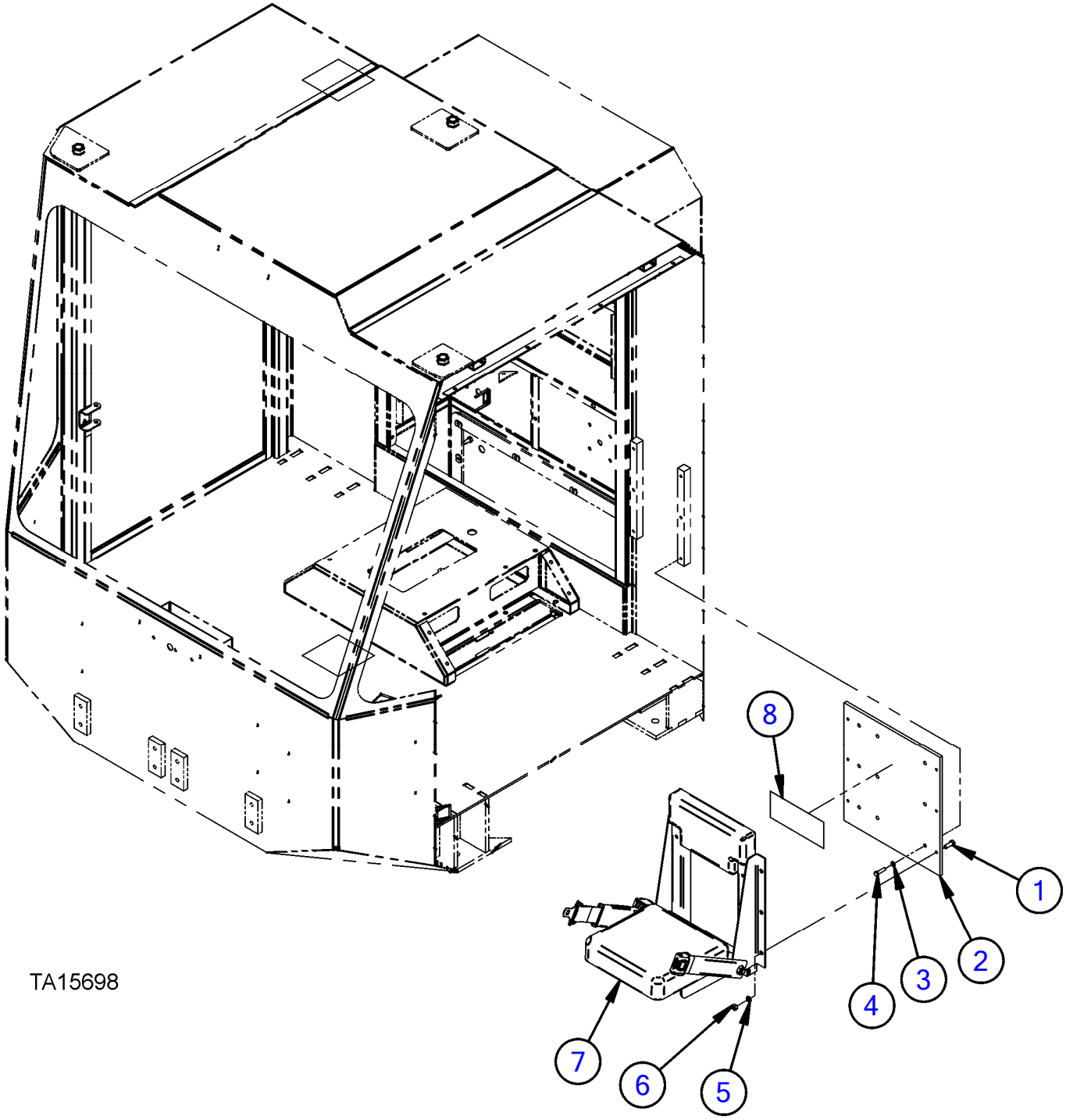
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Item No.	Part Number	Qty.	Part Name	Sugg. Qty.	Rev Date

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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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