

SECTION 3 - ELECTRICAL SYSTEM

DESCRIPTION	ASSEMBLY NUMBER
12 Volt Battery	55586
24 Volt Electrical Assembly	A85164A
Battery 12 Volt	55586
Battery Box Mounting	A84245A
Box - Control, Electrical Assembly	A85105A
Box Mounting, Battery	A84245A
Cable Assembly, Ground	A85165A
Clearance, Head, Tail Light Assembly	A84216A
Control Box Electrical Assembly	A85105A
Dump Body Up Assembly	82280P
Electric Horn Assembly, Reverse Warning	80943J
Electrical Assembly, 24 Volt	A85164A
Electrical Control Box Assembly	A85105A
Excitation and Power Assembly	A85167A
Grid Assembly, Retarding	A85022A
Ground Cable Assembly	A85165A
Head, Tail, Clearance Light Assembly	A84216A
Horn Assembly, Electric - Reverse Warning	80943J
Light Assembly - Head, Tail, Clearance	A84216A
Power and Excitation Assembly	A85167A
Retarding Grid Assembly	A85022A
Reverse Warning Electric Horn Assembly	80943J
Software, Statex 3 CFG	A84922U
Software, Statex III	A84922A
Statex 3 CFG Software	A84922U
Statex III Software	A84922A
Tail, Head, Clearance Light Assembly	A84216A
Up Assembly, Dump Body	82280P

C

C

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9

9

9

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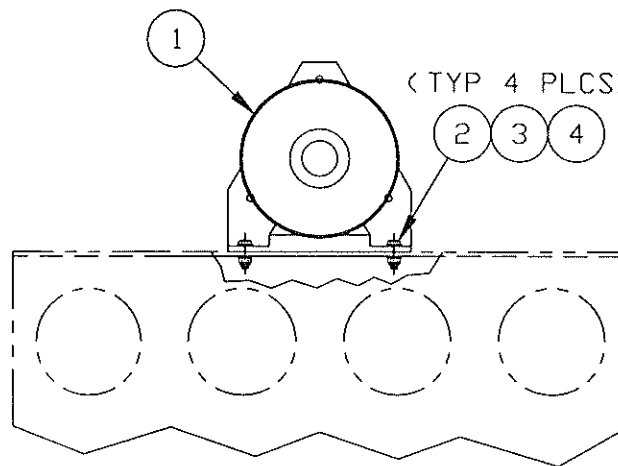
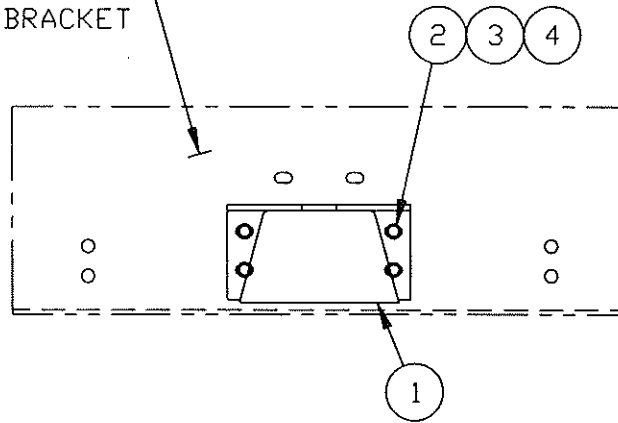
80943J

A19ERT

ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
001	1	24995	HORN ELECTRIC
002	4	10008	CAPSCR, HX, 5/16-18NC X 1 GR 5
003	4	10163	WSHR, FL, 5/16 X .687 OD
004	4	17410	NUT-HEX, FLXLC 5/16-18 FLEXLOC 21FAF-518

TOP SURFACE AXLE
BOX LIGHT BRACKET
(REF)

(TYP 4 PLCS)



DR.
MASSIE

ENG. APP.
SLF

REL. CK.
ELLIS

90796

E.N. NO.



REVERSE WARNING
ELECT HORN ASSY

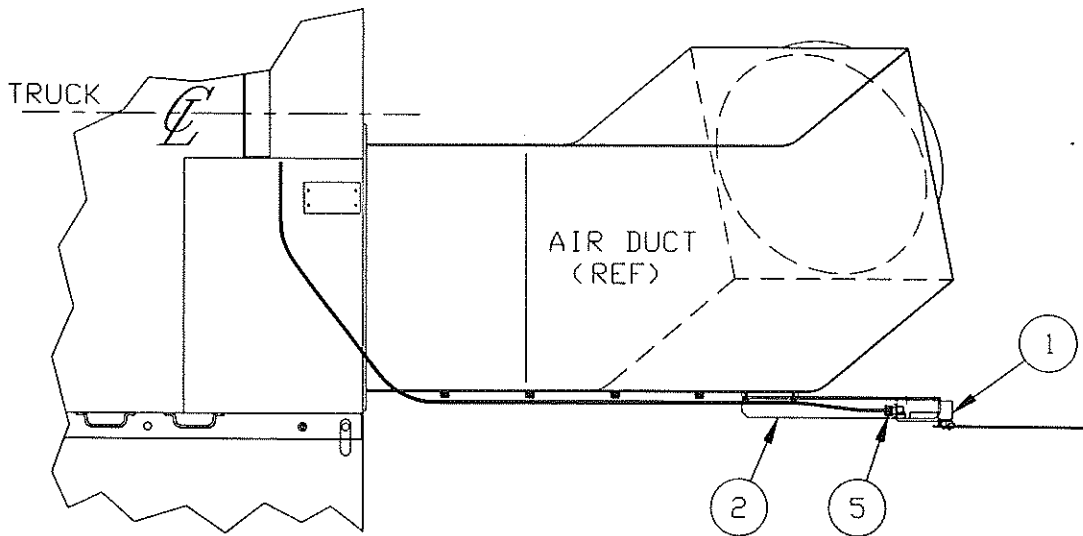
SHEET 1 OF 1

80943J

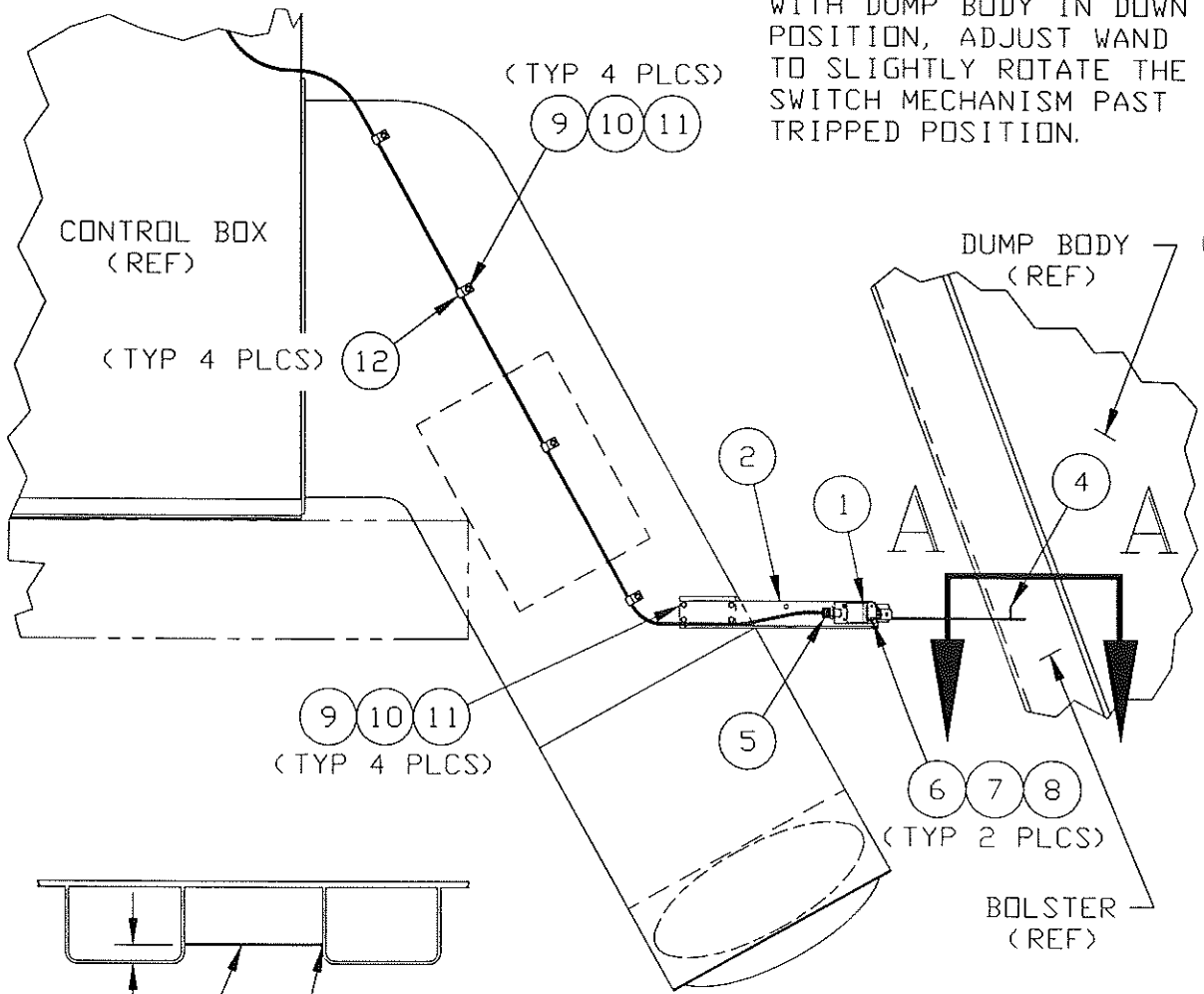
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82280P

ALBERT



NOTE -
 WITH DUMP BODY IN DOWN
 POSITION, ADJUST WAND
 TO SLIGHTLY ROTATE THE
 SWITCH MECHANISM PAST
 TRIPPED POSITION.



AS REQ' D.

TRIM AS
 REQ' D.



$\frac{1}{8}$

BOTH ENDS

VIEW A-A



DUMP BODY UP
 ASSEMBLY

SHEET 1 OF 2

82280P

90174
 E.N. NO.

82280 P

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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
001	1	65057C	SWITCH, WAND LIMIT
002	1	80958C	BRACKET-SWITCH (MG)
004	1	83716A	BAR 1/8 X 1" X 30" 02-375
005	1	21144	GRIP-SEALING .375-.500 ID GROMMET
006	2	52342	SCR, MACH, PNH, 10-32NF X 2 GR 2
007	2	12867	NUT HEX 10-32
008	2	28537	WSHR, LK, HELI, #10 X .334 OD
009	8	16385	CAPSCR, HX, 1/4-20NC X 5/8 GR 5
010	8	10162	WSHR, FL, 1/4 X 0.625 OD
011	8	10178	WSHR, LK, HELI, 1/4 X .489 OD
012	4	986493	CLAMP-CUSHIONED 1/4" I.D.

MT4400-SWITCH ON AIR DUCT FOR CUMMINS AND DETROIT ENGINES

DR.
MASSIE
 ENG. APP.
 REL. CK.

90174
 E.N. NO.



DUMP BODY UP ASSY

SHEET 2 OF 2
 ASSY.
 NO. 82280P

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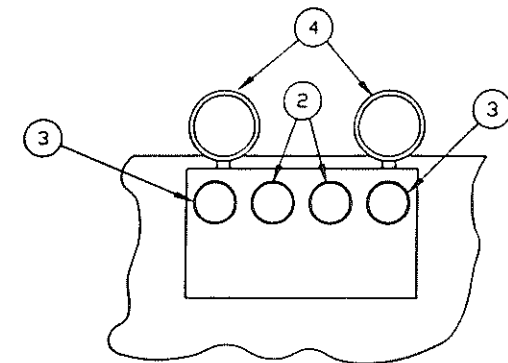
BAM
INC. AP.
GAP
REF. OR
ELLTS

90708
89461
88685
88630
E.N. NO.

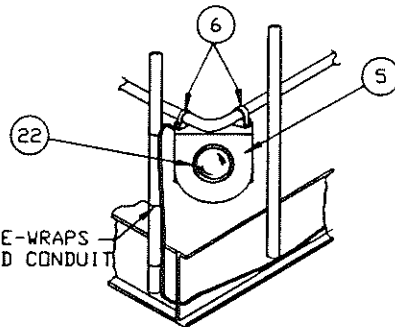
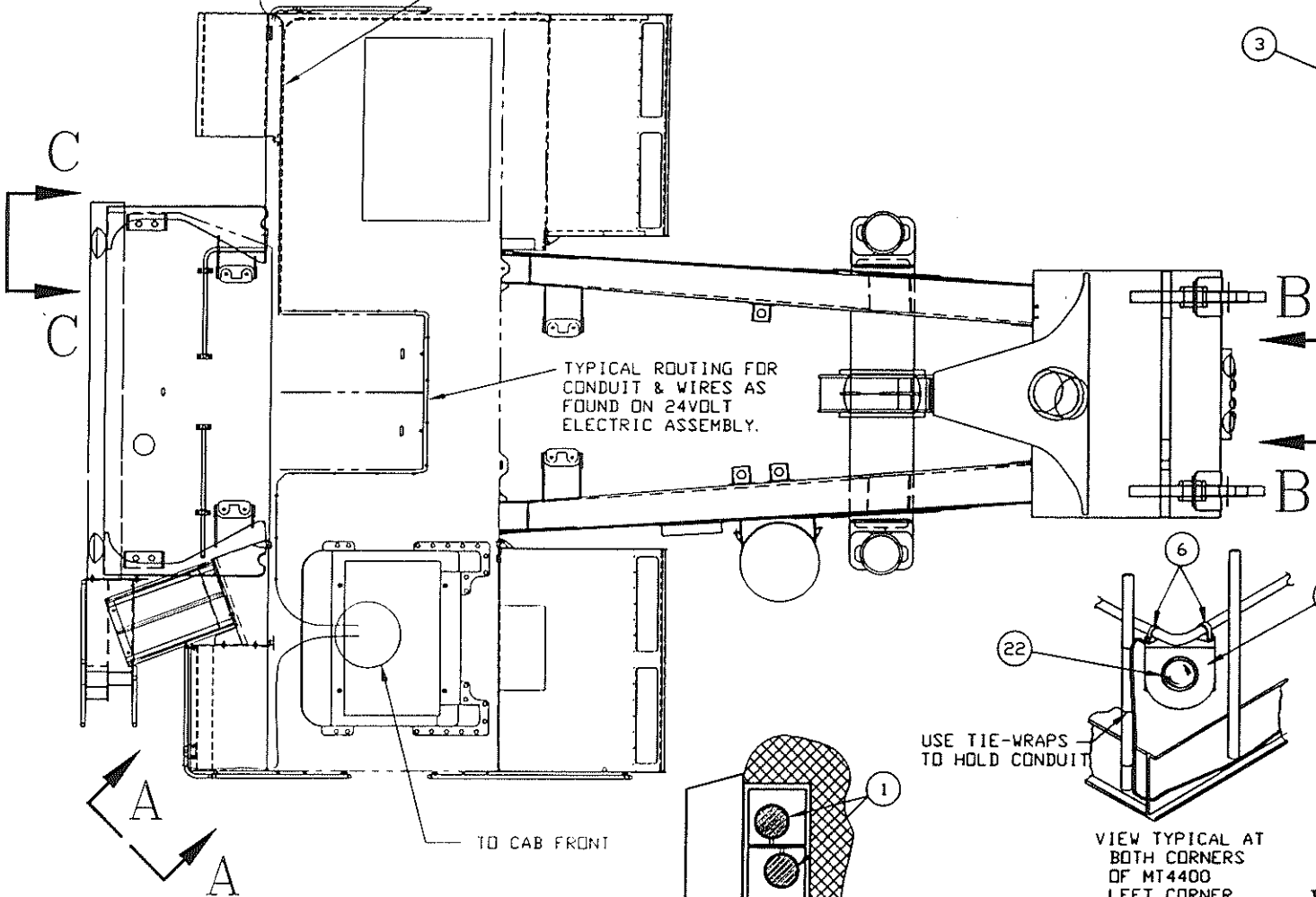
USE EXISTING 1/2" TUBE FOR ROUTING WIRES TO RIGHT CORNER OF SUPERSTRUCTURE

TYPICAL ROUTING FOR CONDUIT & WIRES AS FOUND ON 24VOLT ELECTRIC ASSEMBLY.

TO CAB FRONT

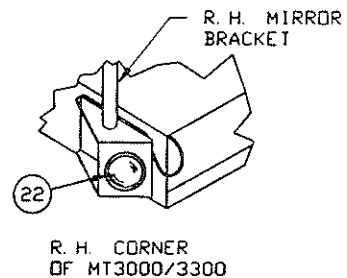


VIEW B-B

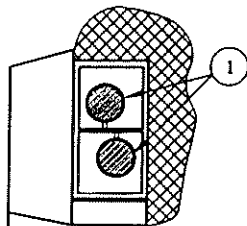


USE TIE-WRAPS TO HOLD CONDUIT

VIEW TYPICAL AT BOTH CORNERS OF MT4400 LEFT CORNER OF MT3000/3300



VIEW A-A



VIEW C-C

BOTH BOTTOM CORNERS OF RADIATOR HOOD

NOTE: ALL FRONT & REAR LIGHTS AND BRACKETS SHIPPED LOOSE FOR FIELD INSTALLATION



LIGHT ASSY-HD, TL, CLR

SHEET 1 OF 2

A84216

AB84216

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BAM
REL. CK.
ELLIS

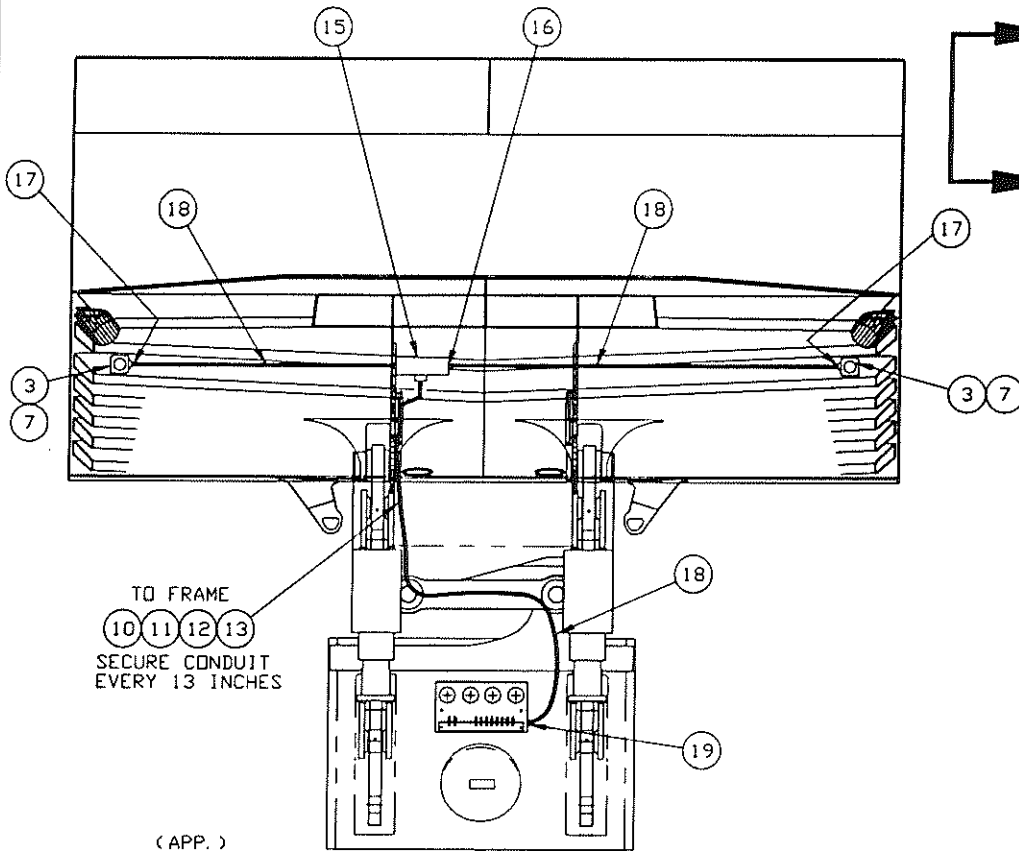
90708

89461

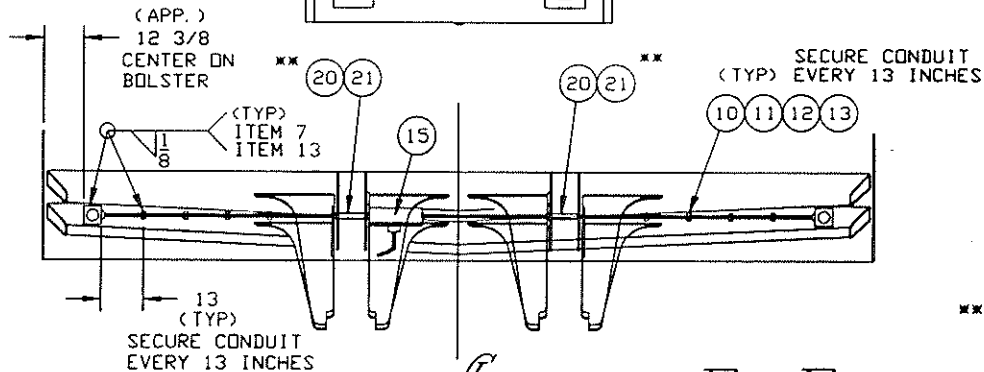
88685

88630

E.N. NO.



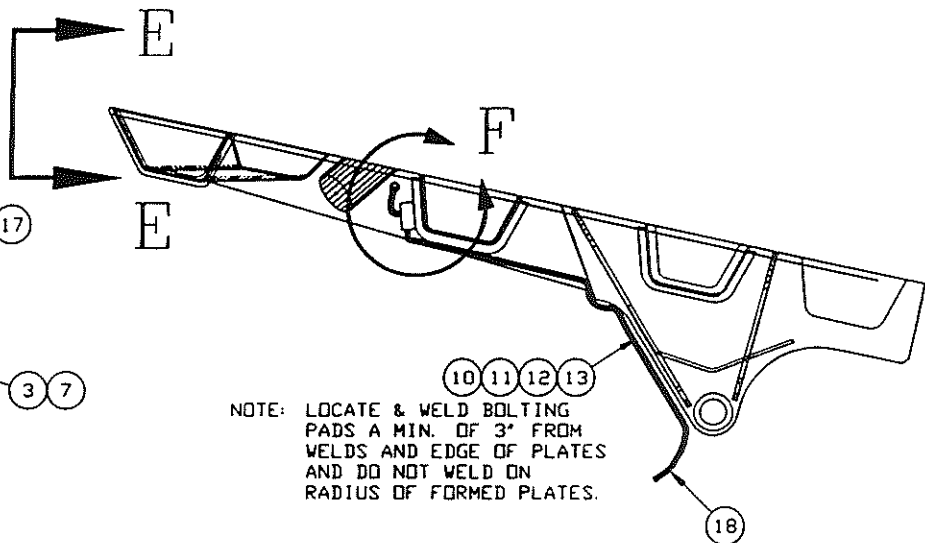
TO FRAME
10 11 12 13
SECURE CONDUIT
EVERY 13 INCHES



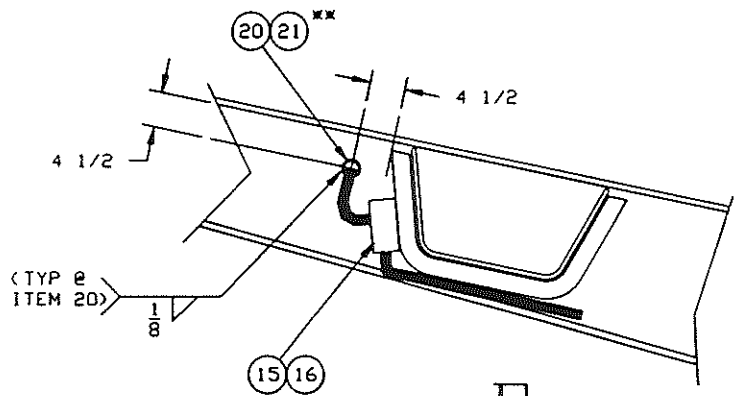
NOTE: MAKE SURE THE EXHAUST PIPE DOES NOT BLOCK VIEW OF ITEM 3 & 7.

E (SYM)

VIEW E-E



NOTE: LOCATE & WELD BOLTING PADS A MIN. OF 3" FROM WELDS AND EDGE OF PLATES AND DO NOT WELD ON RADIUS OF FORMED PLATES.



VIEW F
JUNCTION BOX

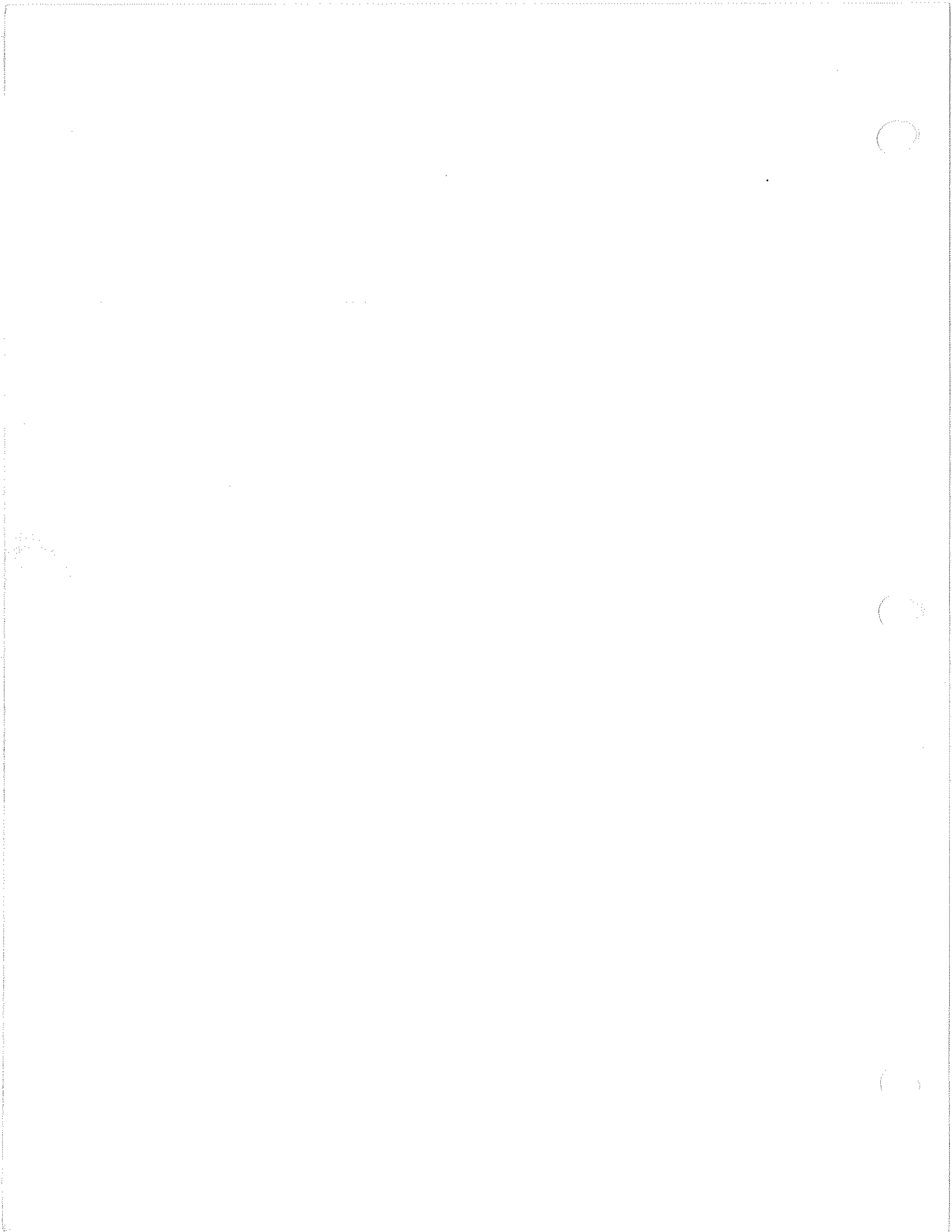
** BURN 2-1/8 DIA. THRU BOTH RUNNERS, CENTER ITEM 20 BETWEEN FLANGES OF RUNNER AND WELD. COMPRESS ITEM 21 AND INSTALL INSIDE ITEM 20.



LIGHT ASSY-HD, TL, CLR

SHEET 2 OF 2

A84216



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A84216A

Copyright date 7/18/96

DR. T. DODEN
 ENG. APP. GAP
 REL. CK. Ellis

ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
S 001	4	* 51675 *	KIT, HEADLIGHT HALOGEN H4 24V BULB HI & LO REFLECTIVE RANGE
S 002	2	* 18858 *	LIGHT-CLEARANCE AMBER
S 003	2	* 18857 *	LIGHT-CLEARANCE RED
S 003	2	* 18857 *	LIGHT-CLEARANCE RED
S 004	2	* 52741 *	KIT, FLOOD/BACK UP LT HALOGEN H3 24V BULB.
005	2	67901H	BRACKET, SIGNAL LIGHT
006	4	1032306	CLAMP (DWG 1101553) 2-1/8 DIA
007	2	84386B	BRACKET-LIGHT
010	4	10011	CAPSCR, HX, 3/8-16NC X 3/4 GR 5
010	28	10011	CAPSCR, HX, 3/8-16NC X 3/4 GR 5
011	4	10180	WSHR, LK, HELI, 3/8 X .683 OD
011	28	10180	WSHR, LK, HELI, 3/8 X .683 OD
012	28	18939	TUBE CLAMP 1ID CLOSED
012	4	18939	TUBE CLAMP 1ID CLOSED
013	28	948634	PAD, BOLTING 3/8 NC 3/4 OD X 3/4 LG
015	1	53412	BOX, 1/2 PVC COND. TEE
016	1	53452	ADHESIVE, PVC CONDUIT
017	2	53473	CAP, 1/2" PVC END
018	20	53408	CONDUIT, 1/2 PVC
018	25	53408	CONDUIT, 1/2 PVC
019	1	53410	CONNECTOR 1/2 PVC CONDUIT BULKHEAD
020	2	61290F	TUBE, CONDUIT ROUTING
021	2	83949A	INSULATOR, GLASTIC
S 022	2	* 703052 *	LIGHT AMBER, TWO ELEMENT
099	REF 1	A84216	DWG ONLY - LIGHT ASSY

MT-4400 TURN SIGNAL, CLEARANCE, EXTERNAL & TAIL LIGHT ASSEMBLIES
 FOR SPECIAL DUMP BODY WITH EXHAUST OUT REAR BOLSTER, PER MH051-55 AND REAR CLEARANCE LIGHTS MOVED TO FLOOR

89461
 89219
 88685
 530
 E.M. NO.

*SEE SERVICE PARTS



LIGHT ASSY-HD, TL, CLR
 SHEET / OF /
 ASSY.
 NO. A84216A

88737
88682
88476
E.N. NO.

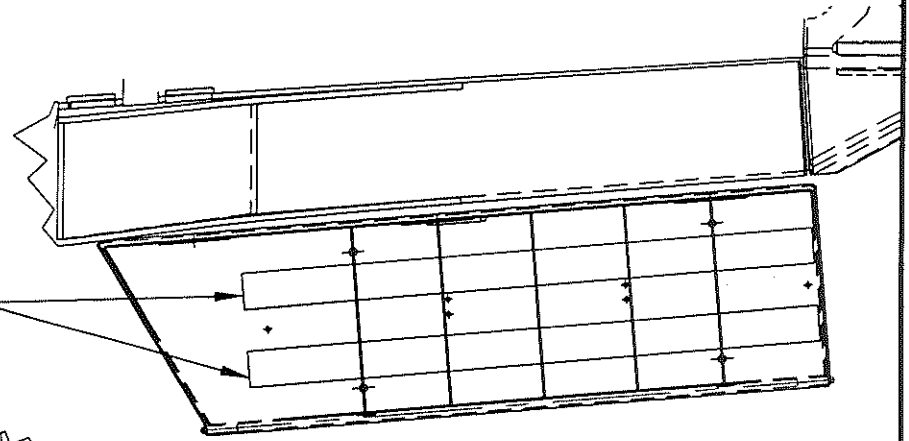
DR: Robinson
ENG. APP: DODDEN
REL. CK: ELLIS

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A84245

CUT ITEM 8 INTO 48" LONG STRIPS AND BOND TO BOTTOM OF BOX WITH 3M #10 ADHESIVE (P/N 986662)

8



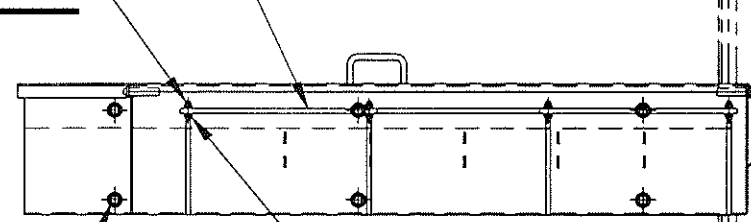
VIEW A - A

(TYP. 4 PLACES)

7 6

2

A



1

A

7 UP SIDE DOWN

5 4 3

(TYP. 6 PLACES)

VIEW FROM INSIDE
LEFT FRAME RAIL



BATTERY
BOX MOUNTING
SHEET 1 OF 2
A84245

A84245

AIVERT

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DR

Robinson
ENGR APPR

DODDEN
REL CK

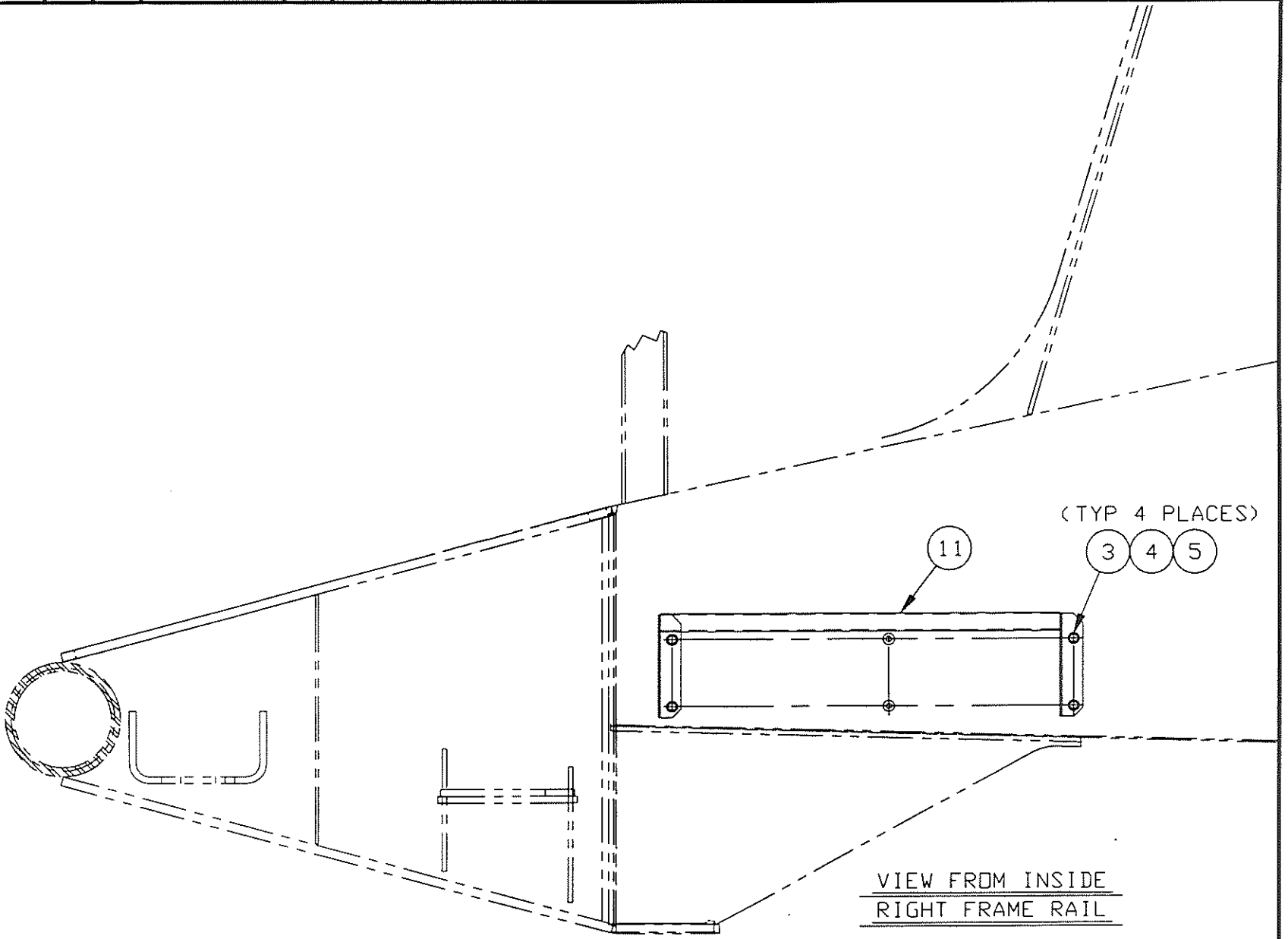
ELLIS

88737

8882

88476

E.N. NO.



(TYP 4 PLACES)

11

3

4

5

VIEW FROM INSIDE
RIGHT FRAME RAIL

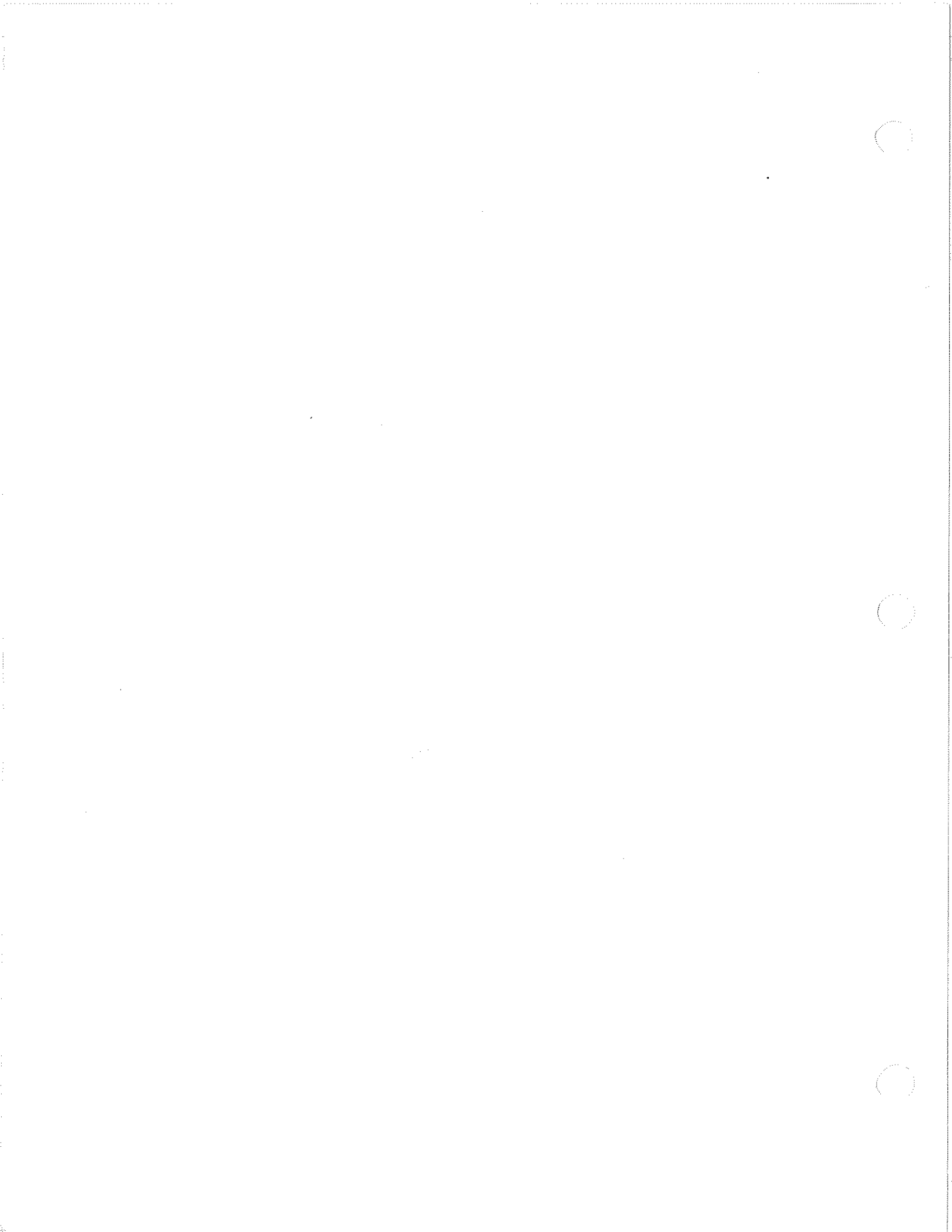


CAD

BATTERY
BOX MOUNTING

SHEET 2 OF 2

A84245



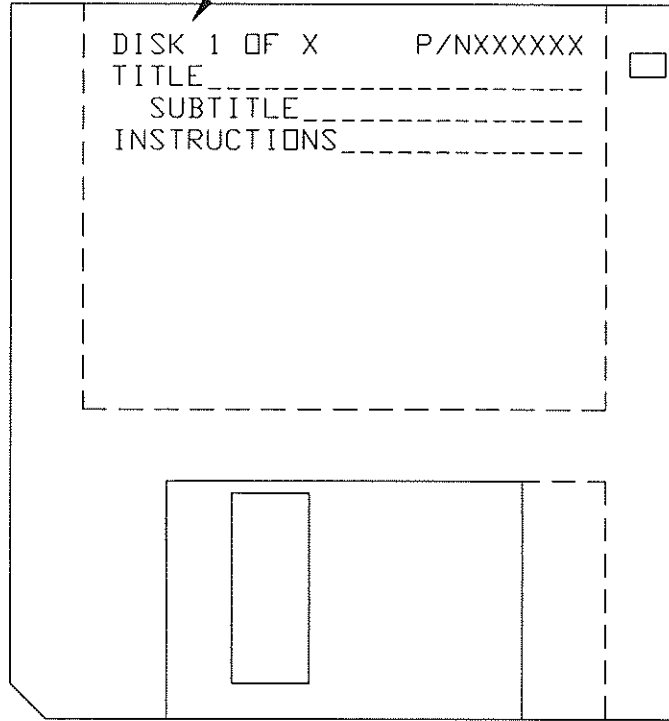
A84922

ALVESC

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DR.
MEK
ENG. APP.
SLF
REL. CK.
ELLIS

STICK LABEL IN THIS AREA



INSTRUCTIONS:

1. COPY EACH OF THE "REF" DISKS (ITEM 002) TO ONE OF THE ITEM 001 DISKS, BY TYPING THE COMMAND;
DISKCOPY A: A:
THEN PRESSING THE ENTER KEY AND FOLLOWING THE INSTRUCTIONS ON THE SCREEN.
 2. LABEL THE DISKS PER FILE "XXXX.LBL" ON ITEM 002. TO SEE THE FILE "XXXX.LBL", TYPE THE FOLLOWING COMMAND;
TYPE A: \XXXX.LBL
THEN PRESS ENTER KEY.
- NOTE: REPLACE "XXXX" WITH ACTUAL PART NUMBER (IE A84922A).



SOFTWARE

SHEET 1 OF 1

A84922

90276

E.N. NO.

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6-13-27

A84922A

ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
001	REF 3	53922	DISK, 3 1/2 DS/HD
002	REF 1	DISK3021A	STATEX 3 FTU SOFTWARE
199	REF 1	A84922	SOFTWARE.DRAWING ONLY

VERSION 12.10
FTU SOFTWARE

DR.
MEK
ENG. APP.
SXF
REL. CR.
Ellis

90276
E.N. NO.



SOFTWARE.STATEX III
SHEET 1 OF 1
ASSY.
NO. A84922A

A84922U

ALBERT

ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
1	.00	53922	DISK, 3 1/2 DS/HD
2	.00	DISK3021X	SOFTWARE, SSL3 CONFIG
199	.00	A84922	SOFTWARE, DRAWING ONLY

BORAX MH111-137
VER 12.10 CFG FILE

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DR.
SLF

ENG. APP.
MASSIE

REL. CK.
ELLIS

90997

E.N. NO.



SOFTWARE, STATEX 3 CFG

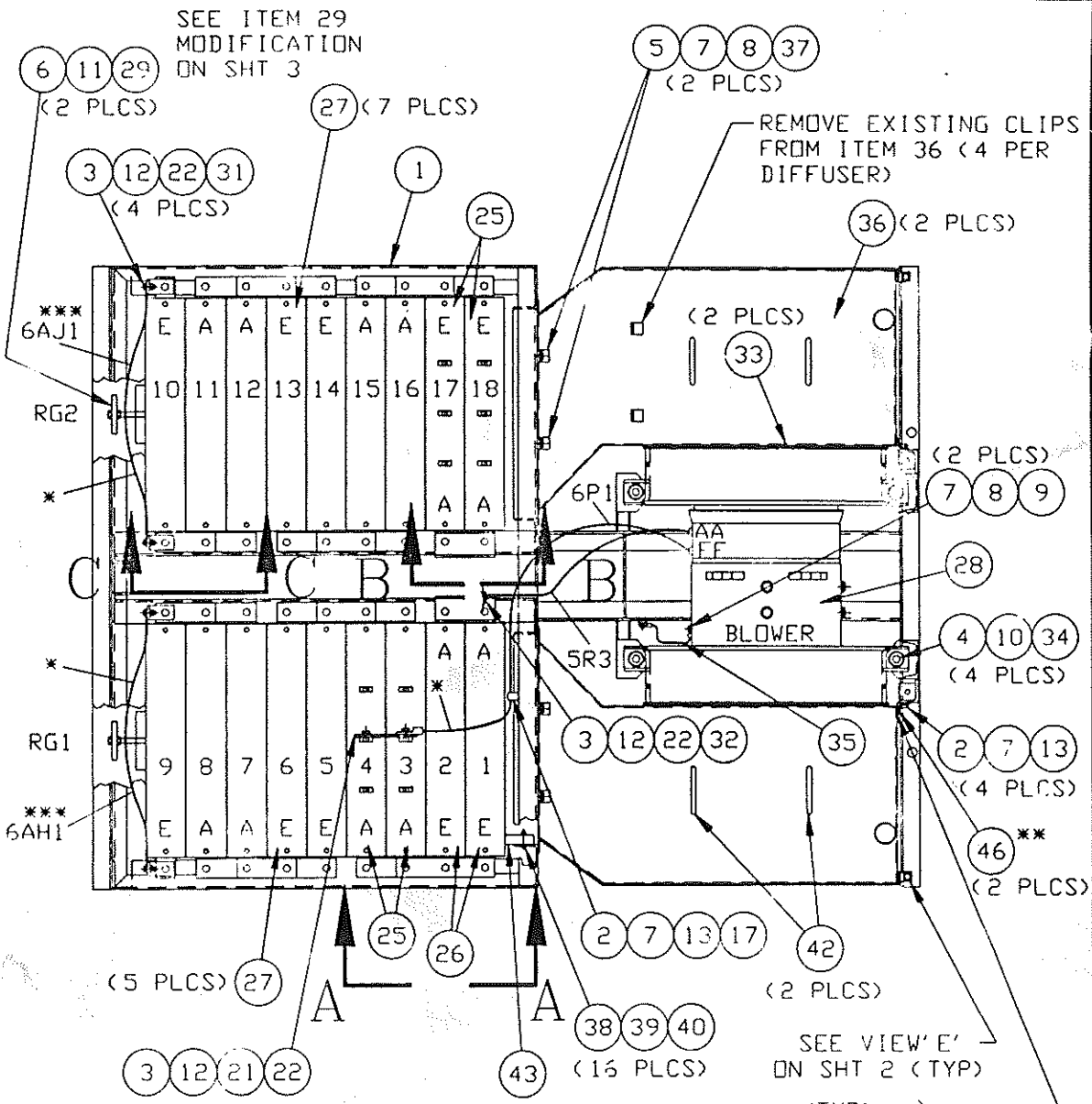
SHEET 1 OF 1

A84922U

A85022

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MASSIE
ENG. APP.
SLF
REL. CK.
ELLIS



NOTE: AIR GAPS BETWEEN GRIDS AND INSULATOR BLOCKS TO BE FILLED WITH RTV IF REQUIRED.

- * WHEN MOTOR CABLE CROSSES GRIDS SEE E WITH ITEM 18. SECURE SLEEVING WITH ITEM 19.
- ** LOCATE AND WELD ITEM 46 ON ASSEMBLY
- *** CONTAINED IN KIT (ITEM 50).

RETARDING GRID ASSEMBLY

SHEET 1 OF 3

A85022



91019
90505
E.N. NO.

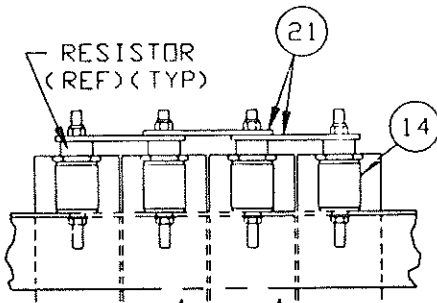
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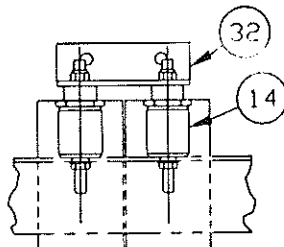
MASSIE

ENG APP.

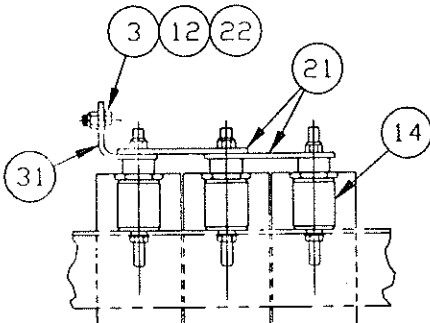
REL. CK.



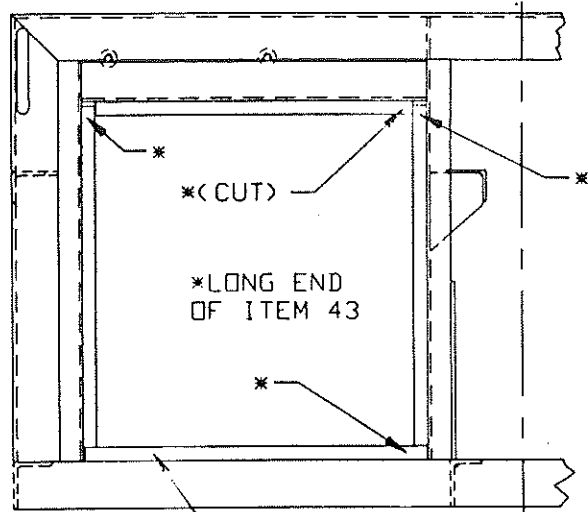
VIEW A-A
(TYP 6 PLACES)



VIEW B-B
(TYP 2 PLACES)

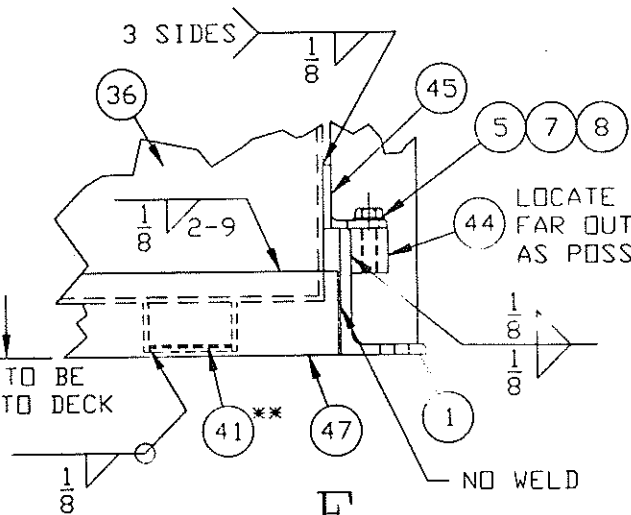


VIEW C-C
(TYP 2 PLACES)



VIEW F
(TYP 2 PLCS)

BOTTOM PIECE IS MIRRORED IMAGED TO THE RIGHT SIDE, ALL OTHERS ARE INSTALLED AS SHOWN.



VIEW E
(TYP 2 PLCS)

** INSTALL EXISTING 2" PIPE CAP ON TOP NIPPLE OF DIFFUSER, INSTALL ITEM 41 IN BOTTOM PIPE NIPPLES ONLY.



RETARDING GRID ASSEMBLY

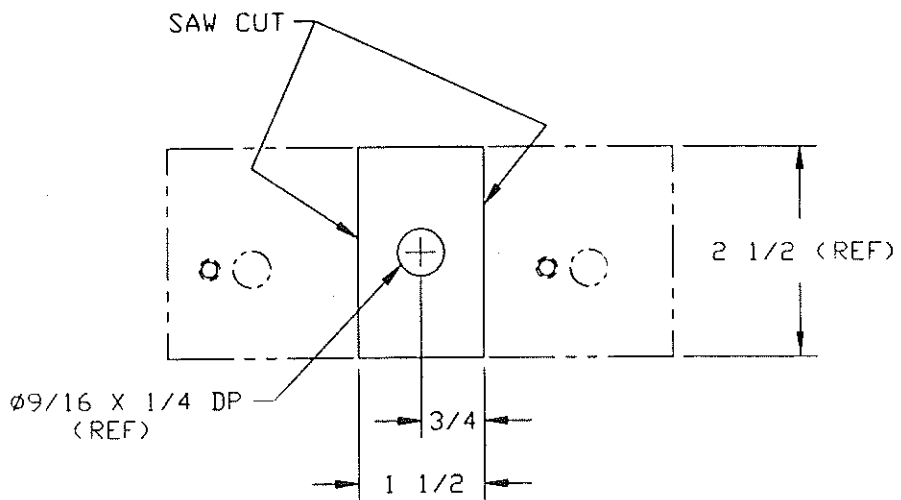
SHEET 2 OF 3

A85022

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A85022

EFFECTIVITY	FROM	TERMINAL	WIRE NO.	WIRE SIZE	WIRE LENGTH	TERMINAL	TO
	BLOWER AA	EXIST	5R3	EXIST		18972	RG1-1A
	BLOWER FF	EXIST	6P1	EXIST		18972	RG1-4C



ITEM 29 MODIFICATION
 (TYP 2 PER ASSY)



RETARDING GRID
 ASSEMBLY

SHEET 3 OF 3

A85022

MASSIE
 REL. CR.
 91019
 90505
 E.N. NO.

A85022A

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OR
 MASSIE

ENG APP
 SLF

REL CK
 ELLIS

91019
 E.N. NO.

ITM		QTY PER ASSY	COMPONENT	U/M	DESCRIPTION
1		1.00	83392F	EA	GRID BOX FABRICATION
2		6.00	10014	EA	CAPSCR, HX, 3/8-16NC X 1-1/2 GR 5
3		7.00	10030	EA	CAPSCR, HX, 1/2-13NC X 1-3/4 GR 5
4	R	4.00	10035	EA	CAPSCR, HX, 1/2-13NC X 3 GR 5
5		6.00	10012	EA	CAPSCR, HX, 3/8-16NC X 1 GR 5
6		2.00	10137	EA	NUT, HX, JAM, 1/2-13NC STL GR 2
7		27.00	10164	EA	WSHR, FL, 3/8 X 1.000 OD
8		10.00	10180	EA	WSHR, LK, HELI, 3/8 X .683 OD
9		4.00	16390	EA	CAPSCR, HX, 3/8-16NC X 5/8 GR 5
10	R	4.00	11886	EA	NUT-HEX, FLXLC 1/2-20
11		2.00	17146	EA	BOLT TAP1/2X3
12		7.00	1741	EA	NUT, HX, CRNLK, 1/2-13NC STD GR
13		5.00	17413	EA	NUT-HEX, FLXLC 3/8-16
14	R	36.00	916185	EA	INSULATOR ASSY
16		2.00	18972	EA	TERM-CAST ELEC. 420 DIA WIRE 9/16
17		1.00	19062	EA	CLAMP-CUSHION 11/16
18		72.00	19165	IN	SLEEVE BULK NON-FRAY 1-1/4'
19		1.00	19312	RL	TAPE CLOTH 1 IN
20		6.00	20871	IN	SLEEVE BULK HT SHRINK 1' TO 1/2'
21		23.00	22088	EA	BAR BUS
22		7.00	22465	EA	WSHR, FL, 1/2
25	R	4.00	55589	EA	RESISTOR, GRID GE P/N 17EA20H123
26	R	2.00	55590	EA	RESISTOR, GRID GE P/N 17EA20H120
27	R	12.00	55591	EA	RESISTOR, GRID GE P/N 17EA20H109A
28	R	1.00	55554	EA	MOTOR, GRID BLOWER 4 POINT MOUNT
29	R	2.00	18851	EA	SPACER
31		4.00	75953B	EA	BAR - BUS 2 3/4' X 2 3/4' (1)9/16 (1)11/16
32		2.00	79697B	EA	BAR, TIN PLATED BUS
33	R	2.00	52668	EA	SEAL, BLOWER
34		4.00	1004296	EA	WASHER, TG, CAB
35		1.00	950308	EA	CABLE ASSY GROUND

*SEE SERVICE PARTS



RETARDING GRID
 ASSEMBLY

SHEET 1 OF 2

A85022A

A85022A

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ITM		QTY PER ASSY	COMPONENT	U/M	DESCRIPTION
36	R	2.00	52578	EA	AIR DIFFUSER ASSY
37		4.00	8258	EA	CLIP
38		16.00	10003	EA	CAPSCR, HX, 1/4-20NC X 1-1/2 GR 5
39		16.00	10162	EA	WSHR, FL, 1/4 X O. 625 OD
40		16.00	52351	EA	NUT, HX, 1/4-20NC STL GR 5
41		2.00	83465A	EA	PLUG-DIFFUSER
42		4.00	719	EA	HANDLE, PULL
43	R	8.00	52780	EA	SUPPORT, INSULATED
44		2.00	64863A	EA	PAD, BULTING 3/8 NC
45		2.00	85021A	EA	ANGLE, MOUNTING
46		2.00	85020A	EA	ANGLE, SIDE, DIFFUSER
47		2.00	85019A	EA	SKIRT, DIFFUSER
50		1.00	85114S	EA	KIT, CABLE, PWR/EXC GRID BOX
90		1.00	82222G	EA	KIT, GRID BOX GE41A253241G13 18 H STYLE GRIDS FOR 787/788 WHEEL MOTORS.
99	R	1.00	A85022	EA	DWG ONLY, RETARD GRID

18 'H' GRIDS - 4 PT
 BLOWER MOUNT --
 SEALED BOX

MASSIE

ENG. APP.

PCL. CK.

91019

E.N. NO.

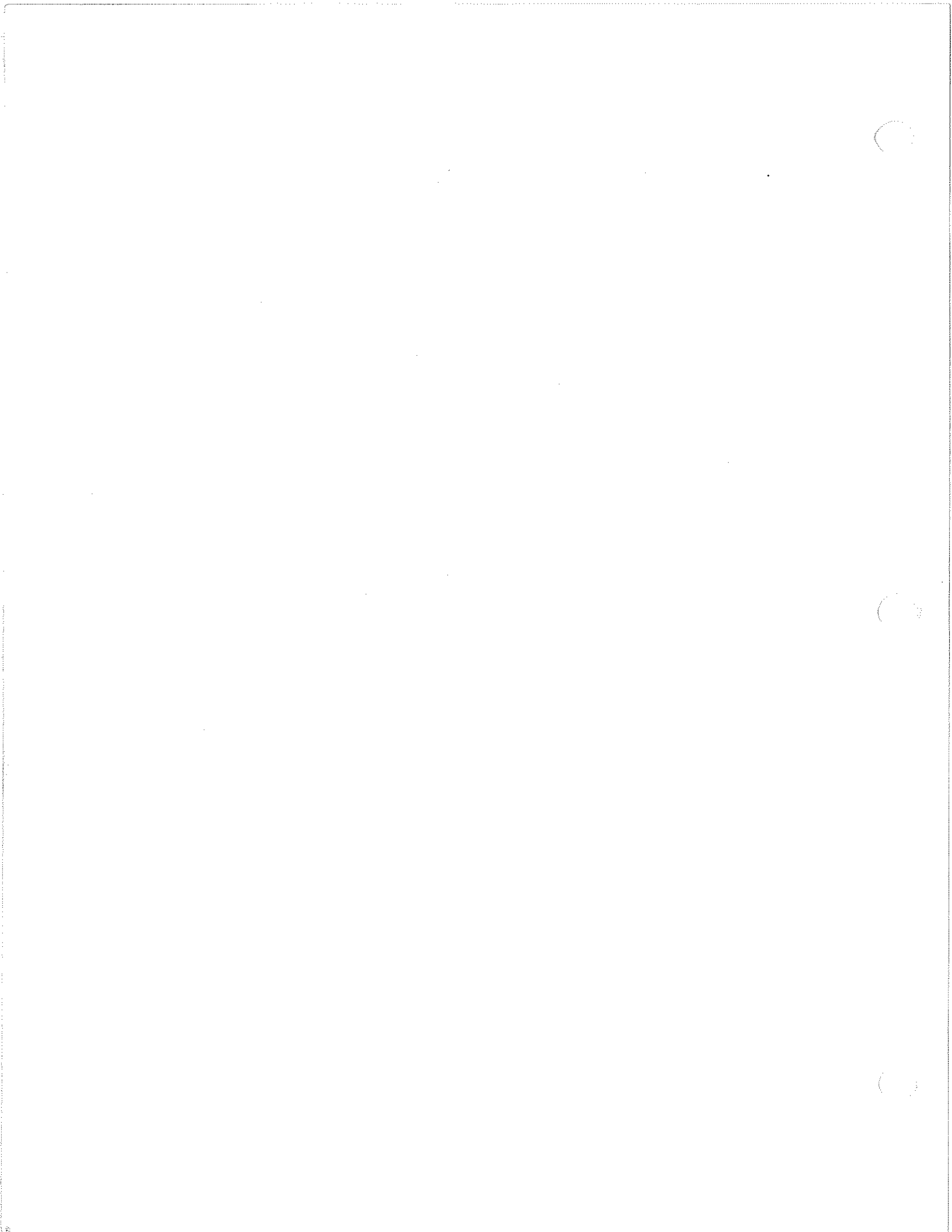


CAD

RETARDING GRID
 ASSEMBLY

SHEET 2 OF 2

A85022A



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AVERT

NOTE:

1. ON INTERIOR & EXTERIOR OF CONTROL BOX, STENCIL WIRE IDENTIFICATION NUMBERS BELOW ALL CABLE HOLES PENETRATED BY ONLY ONE CABLE.

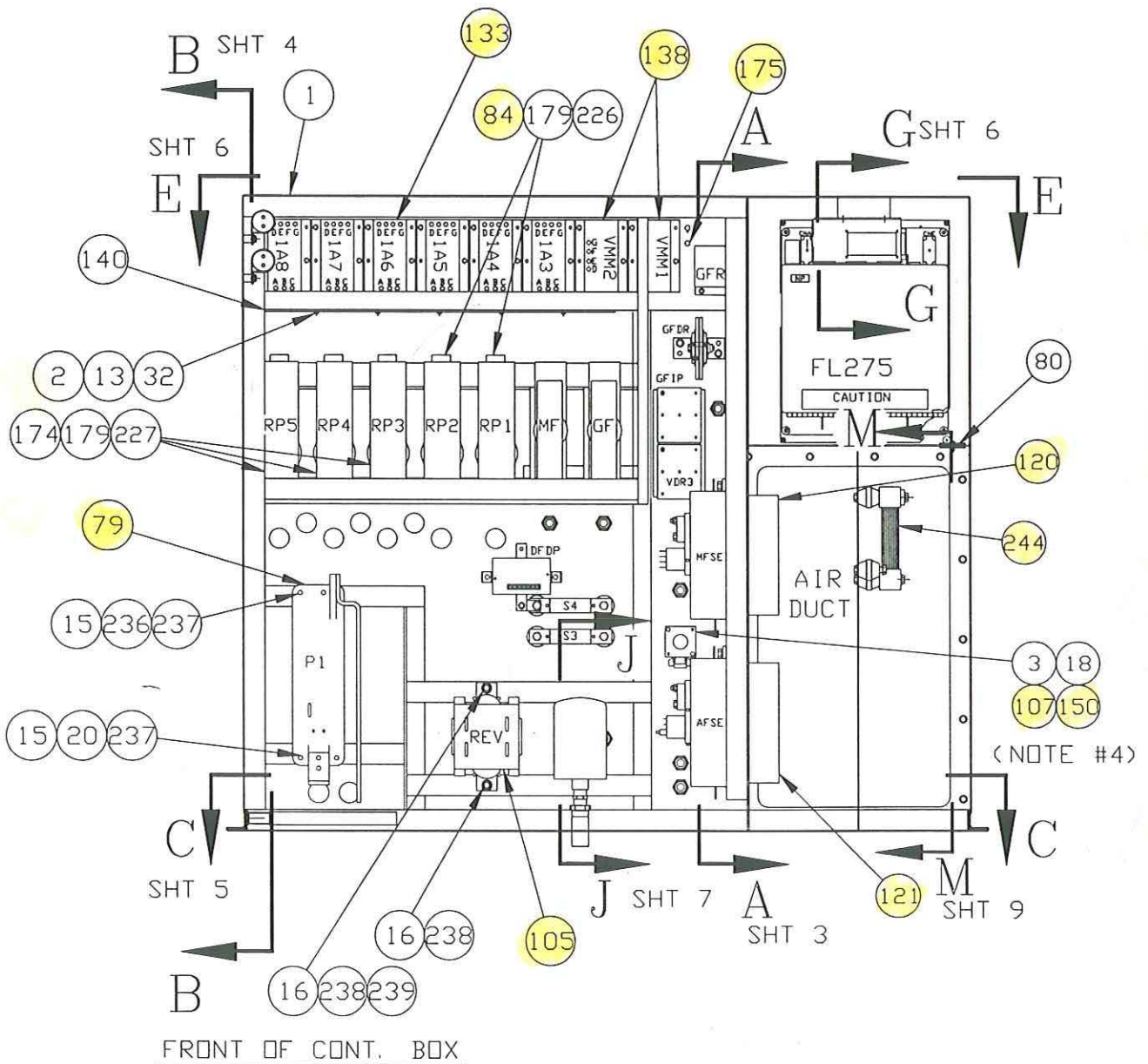
2. AFTER INSTALLATION OF WIRING CHANNELS, COVER ALL METAL FASTENERS WITH RTV.

3. ON INTERIOR OF CONTROL BOX, STENCIL THE IDENTIFICATION OF EACH DEVICE ON THE NEAREST WALL.

4. UNIQUE TO G. E. KIT. SEE CONTROL KIT P/N.

5. SOLDER ITEM #153 BANANA PLUG TO ITEM #197 AND ATTACH TO GND 1 AND STORE UNDER THE FL275 BOX.

6. USE FLAT WASHERS NEXT TO PLATED SURFACES (IE BUS BARS) UNDER NUTS AND CAPSCREWS OF BOLTED CONNECTIONS.



DR. MASSIE
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 REL. CK. ELLIS

90807
 90625
 E.N. NO.

**CONTROL BOX
 ELECTRICAL ASSY**
 SHEET 1 OF 9
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ALVEXT

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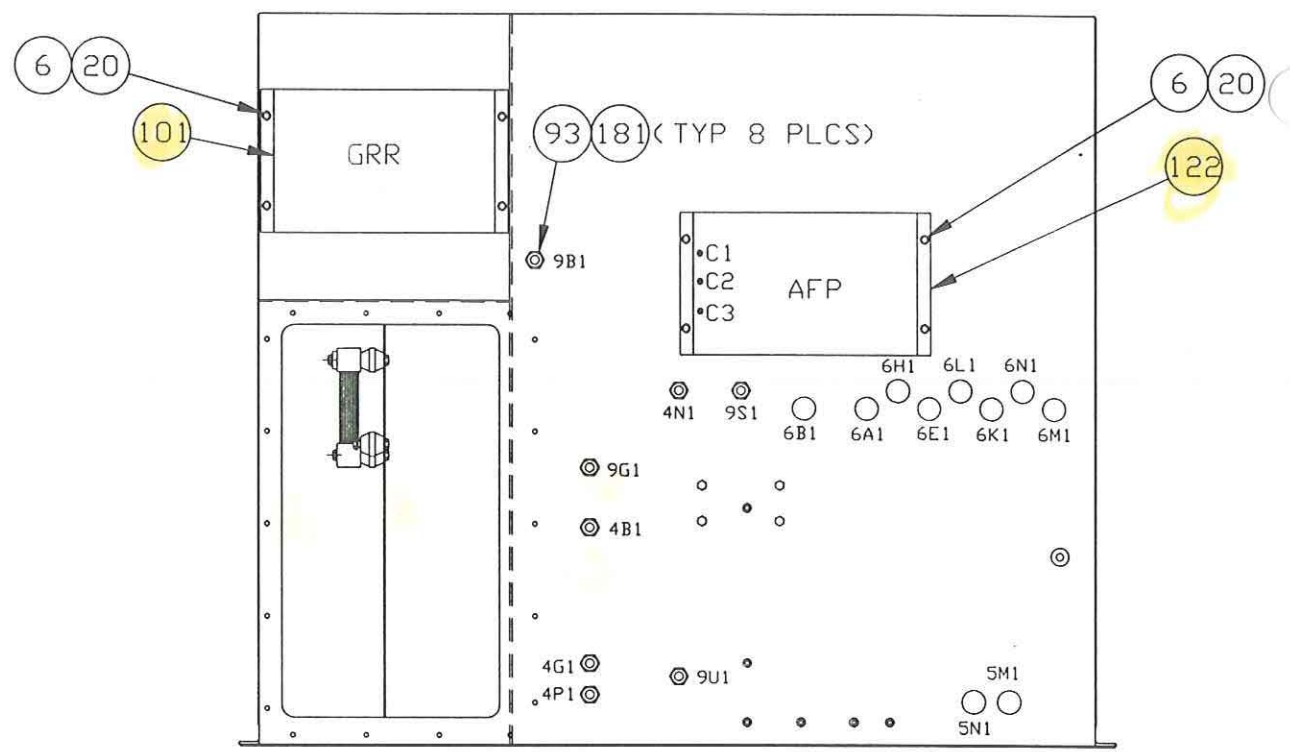
ENG. APP.

REL. CK.

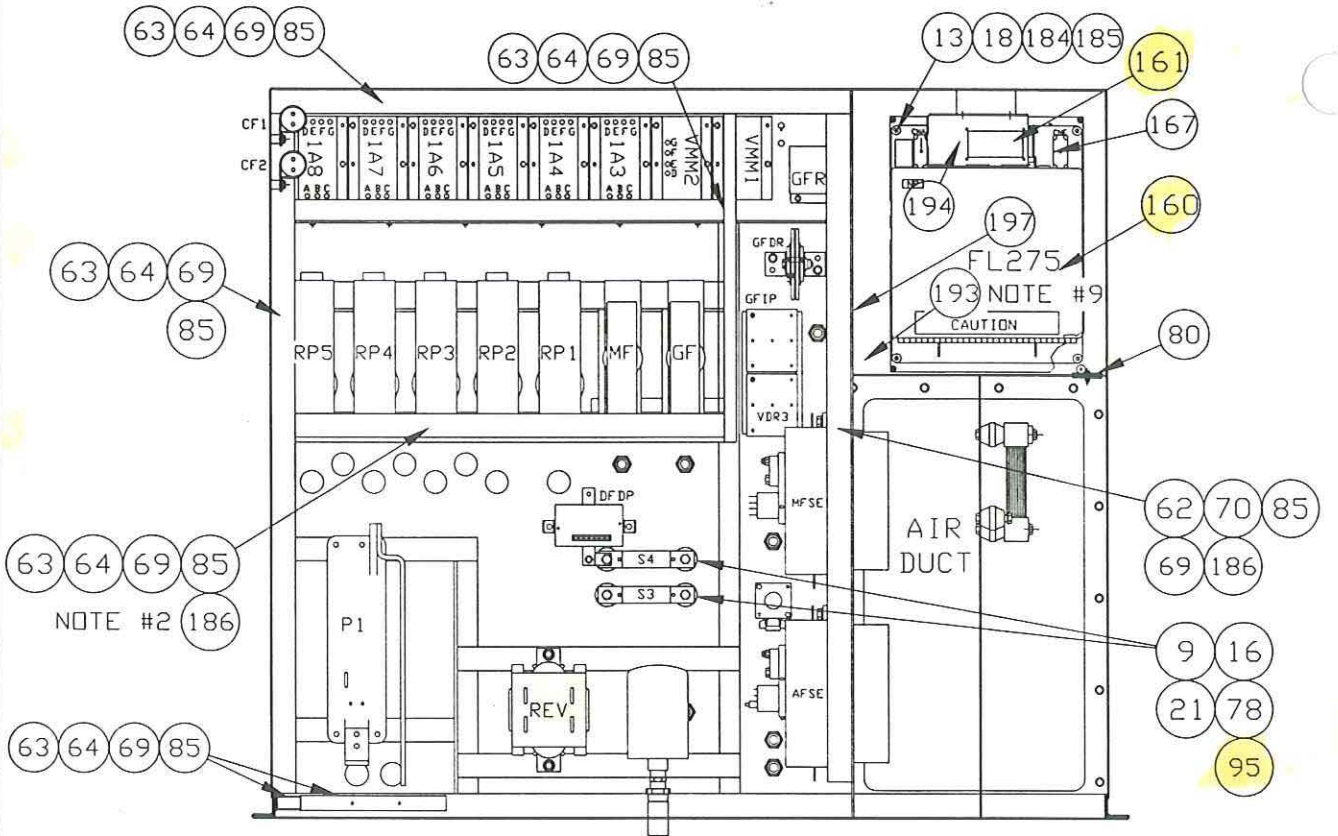
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REAR OF CONTROL BOX (NOTE 1)



FRONT OF CONTROL BOX

CONTROL BOX
 ELECTRICAL ASSY

SHEET 2 OF 9

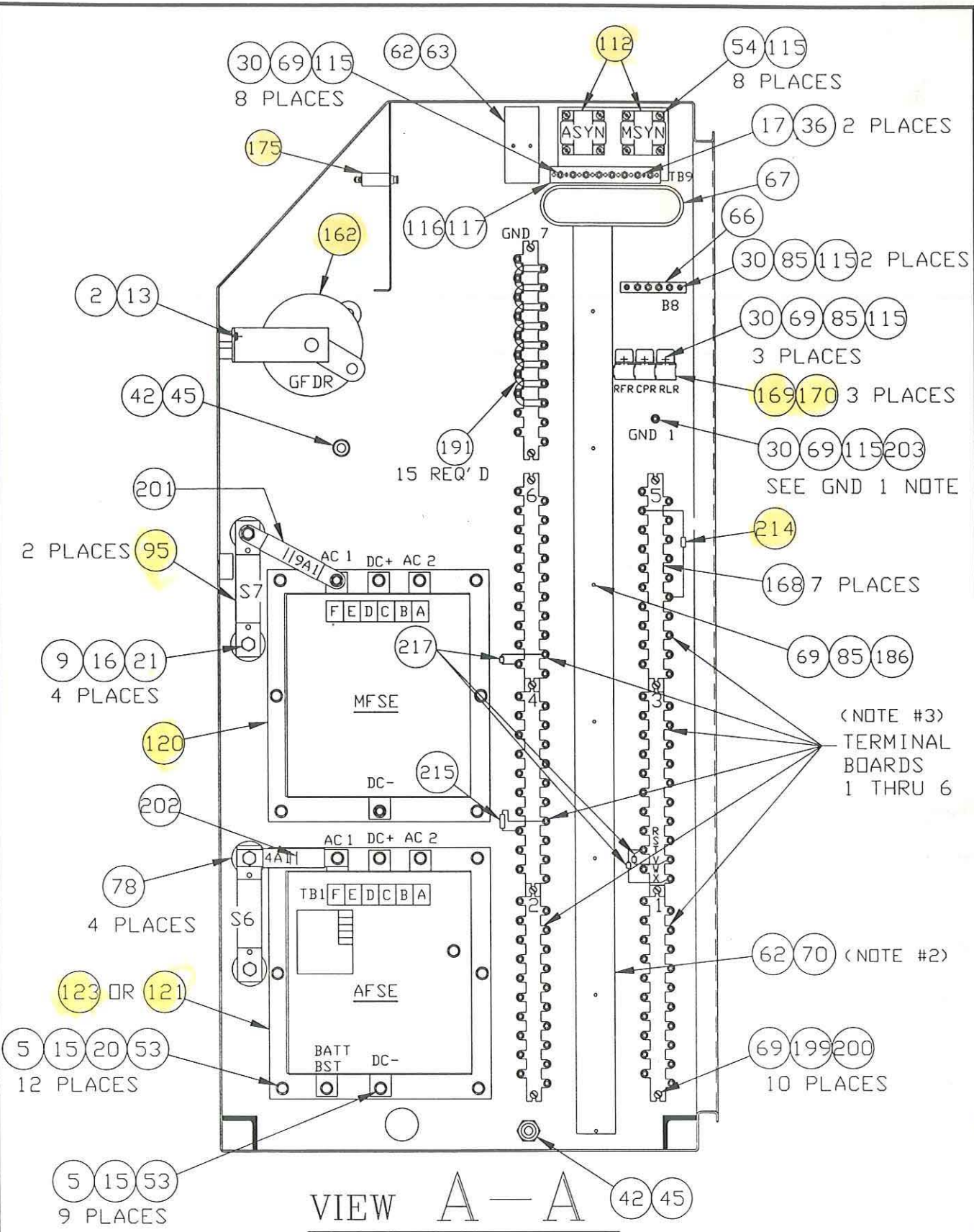
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ALVERT



VIEW A - A

SCALE: 2X

GND 1 NOTE:
 INSTALL ITEM #203 FROM OPPOSITE
 SIDE TO PROVIDE STUD TO MOUNT
 GND 1. INSTALL ITEM #197 ON
 OPPOSITE SIDE WITH ITEM #203.
 SEE NOTE #5 ON SHEET #1.



CONTROL BOX
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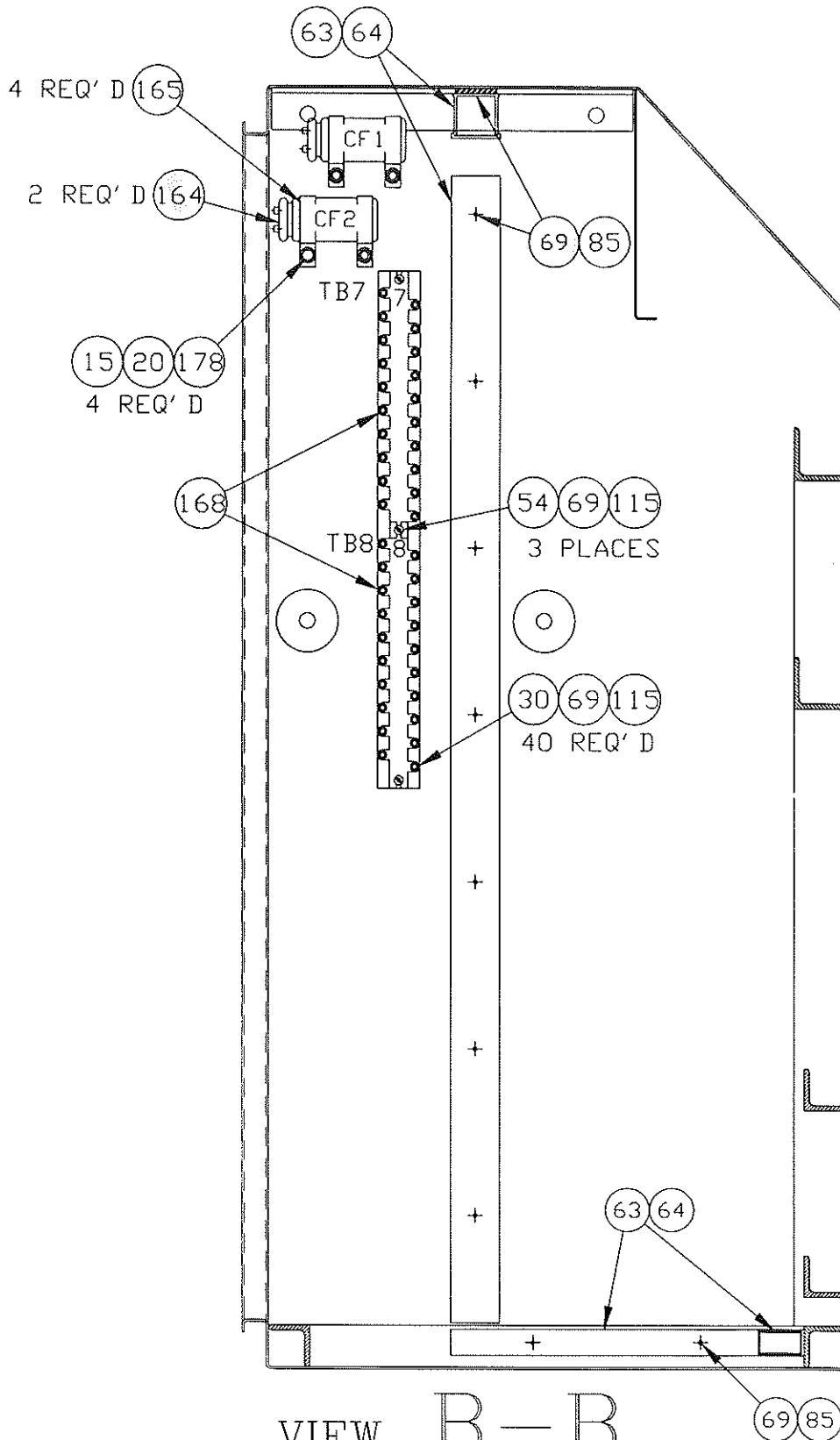
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 MASSIE

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REL. CK.



VIEW B-B

SCALE: 1/8" = 1"



CONTROL BOX
 ELECTRICAL ASSY

SHEET 4 OF 9

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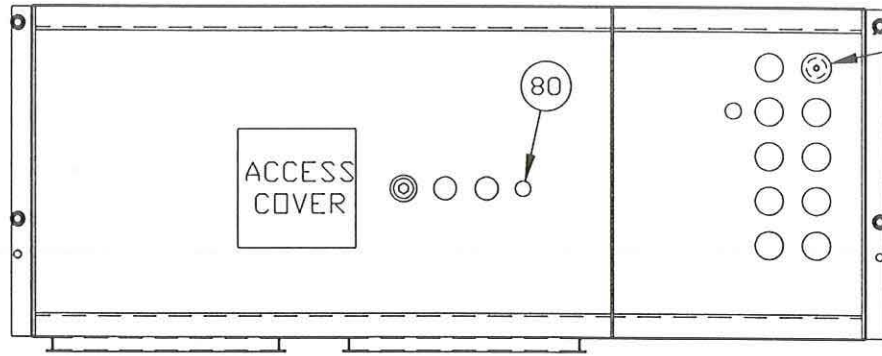
E.N. NO.

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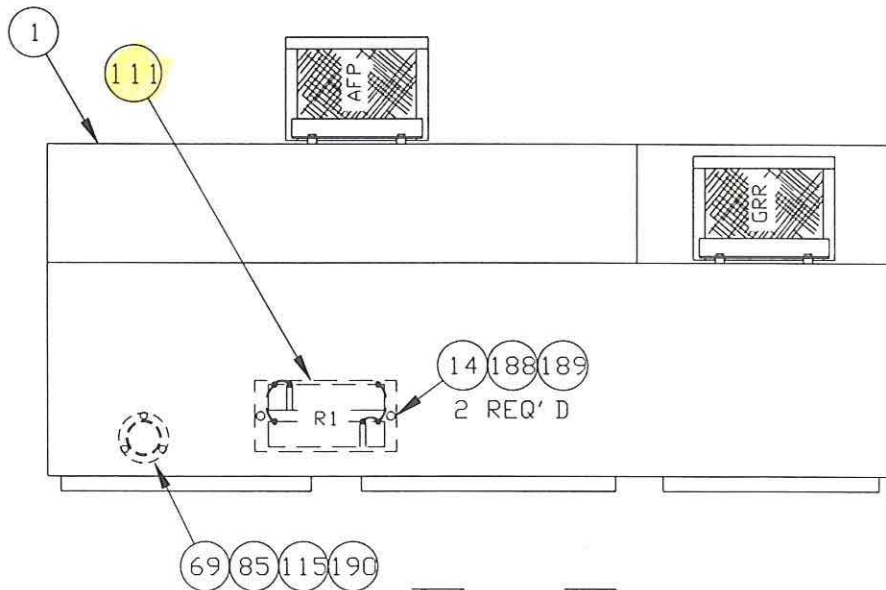
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AVERT



80
 6 PLACES
 MAY BE
 OMITTED IF
 S/S COVERS
 HOLE.

VIEW C-C



VIEW E-E

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 MASSIE

ENG. APP.

REL. CK.

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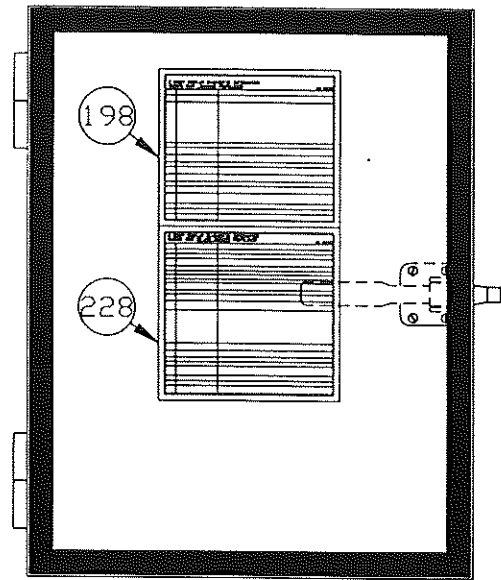
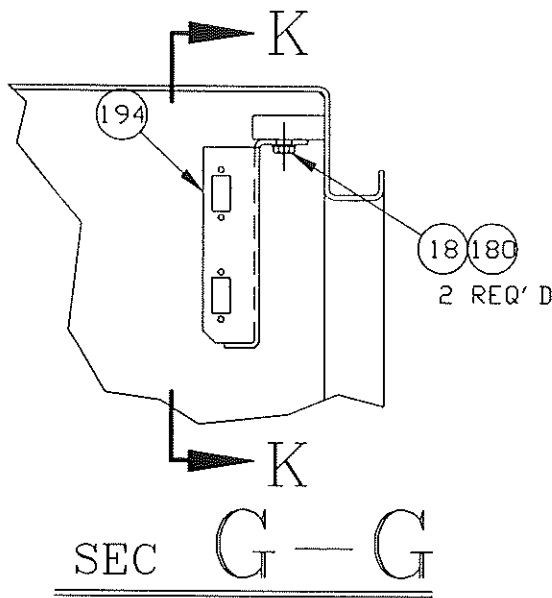
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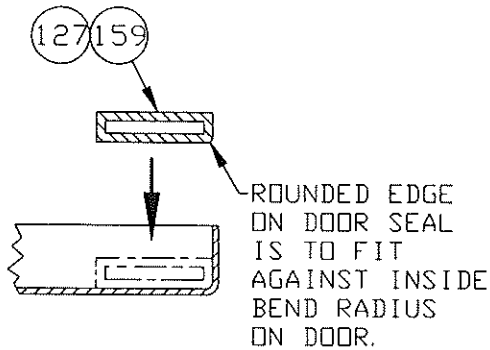
CONTROL BOX
 ELECTRICAL ASSY
 SHEET 5 OF 9
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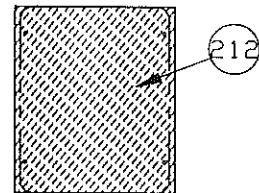
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LOCATION OF 'CODE EVENT' NAMEPLATES
ON INSIDE SURFACE OF EXTERIOR DOOR
COVERING MICROPROCESSOR AREA



SEC H-H

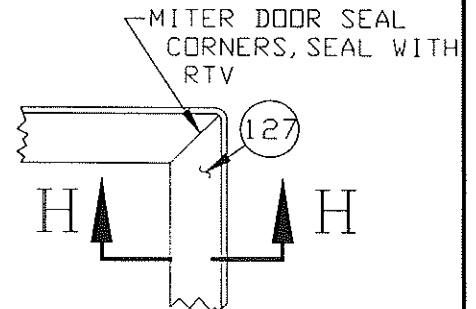


WEIGH SYSTEM ACCESS DOOR
RUBBER PAD INSTALLATION

SEE NOTES 1, 2 & 4 OF THE
DOOR SEAL INSTALLATION
INSTRUCTIONS FOR ATTACHMENT
INSTRUCTIONS FOR ITEM #212.
TRIM EXCESS RUBBER FROM EDGES OF
ACCESS DOOR.

DOOR SEAL INSTALLATION

1. SURFACE PREPARATION:
SURFACES OF DOOR SEAL (ITEM 127) AND AREA
AFFECTED ON DOOR MUST BE CLEAN, DRY AND
DUST FREE.
2. ADHESIVE APPLICATION:
APPLY A THIN UNIFORM COAT OF ADHESIVE
(15605) TO EACH SURFACE AFFECTED, BOTH
DOOR SEAL AND DOOR. ALLOW TO DRY UNTIL
TACKY (APPROX. 3 MIN.). ASSEMBLE AS
SHOWN IN SECTION H-H AND "DETAIL-DOOR
CORNER", APPLY PRESSURE TO INSURE CONTACT.
3. SEALING CORNERS:
MITERED JOINTS ARE TO BE SEALED WITH RTV.
4. USE INDUSTRIAL CLEANER (55249) TO REMOVE
EXCESS ADHESIVE FROM THE INTERIOR
SURFACE OF THE DOORS.



DETAIL-DOOR CORNER (TYP)

CONTROL BOX
ELECTRICAL ASSY

SHEET 6 OF 9

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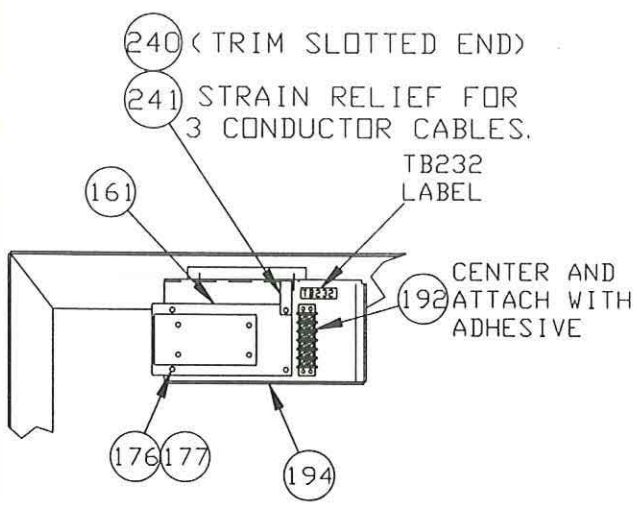
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AVERT

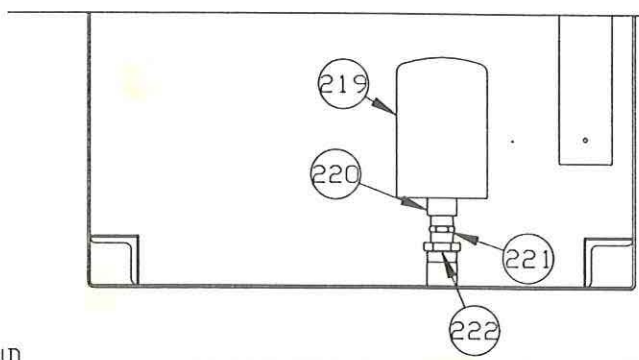
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 REL. CK.

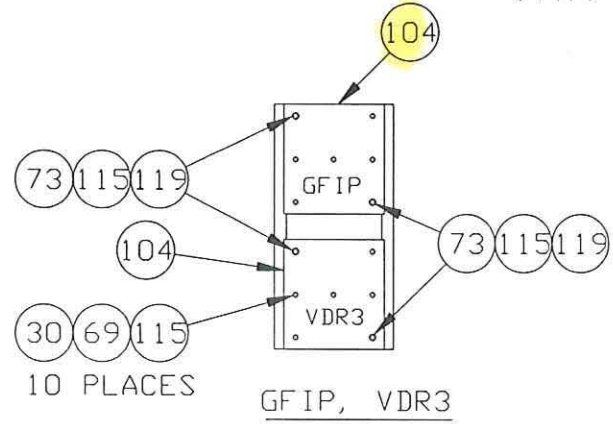
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 90625
 E.N. NO.



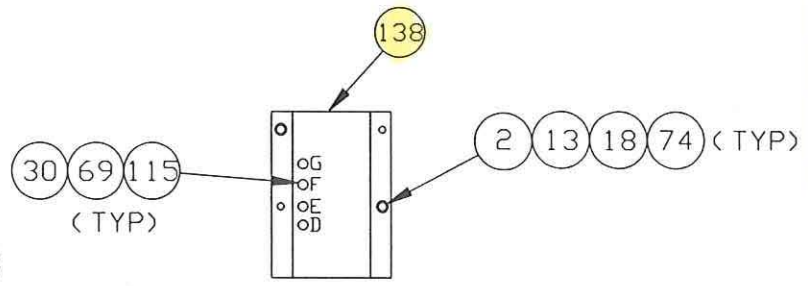
(4-PLCS)
VIEW K-K



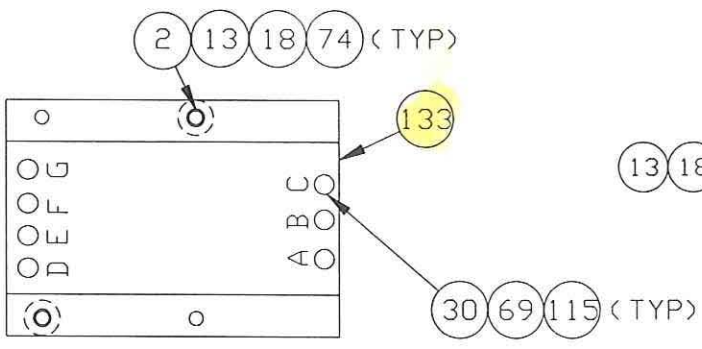
VIEW J-J



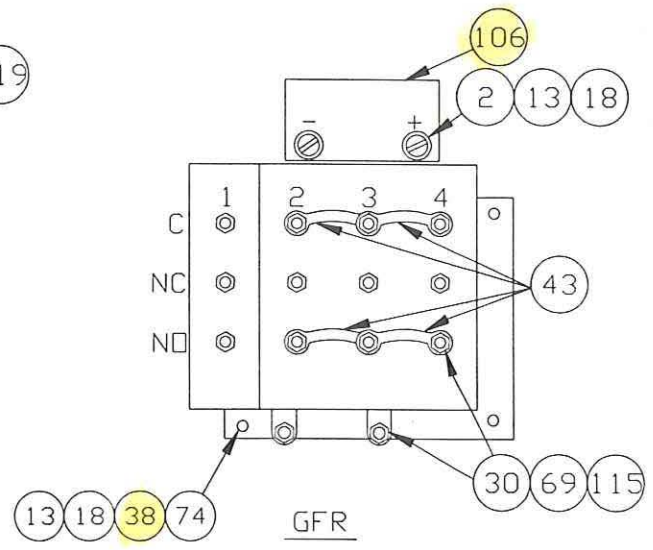
GFIP, VDR3



TYP FOR VMM1 AND VMM2



TYP FOR 1A3, 1A4, 1A5, 1A6, 1A7, 1A8



**CONTROL BOX
ELECTRICAL ASSY**

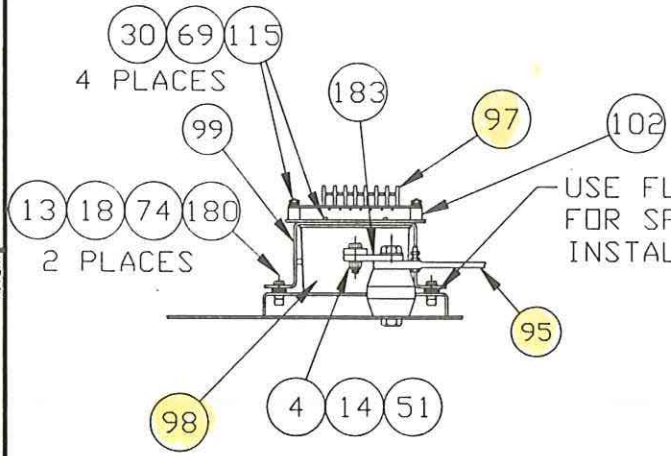
SHEET 7 OF 9

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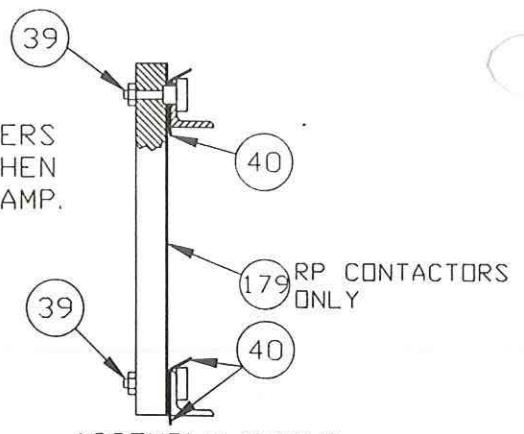


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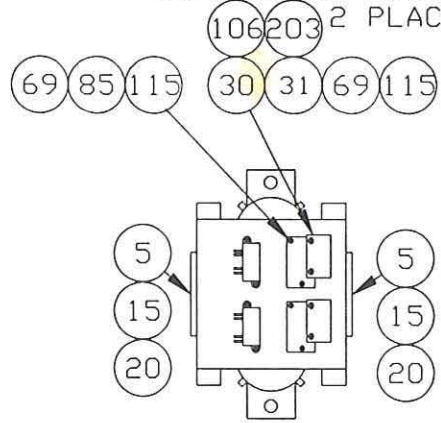


ASSEMBLY DETAIL
DFDP, FDT

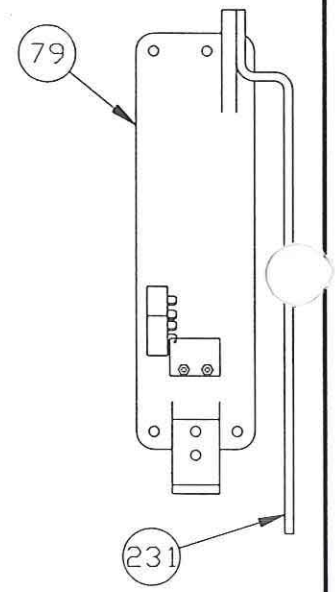
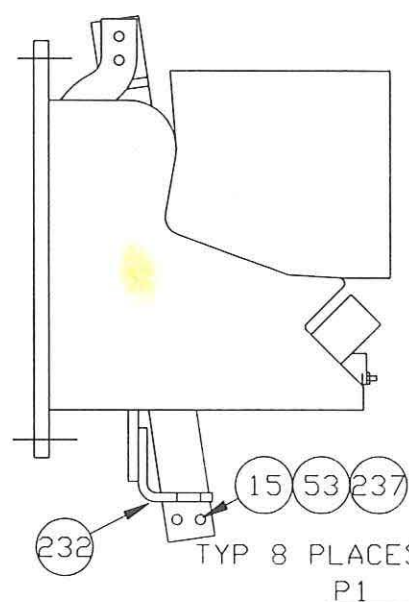


ASSEMBLY DETAIL
INSULATED BOLTS AND SHIELDS
FOR CONTACTORS.

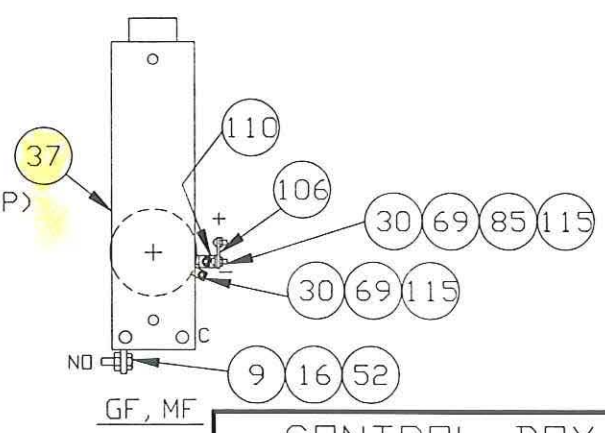
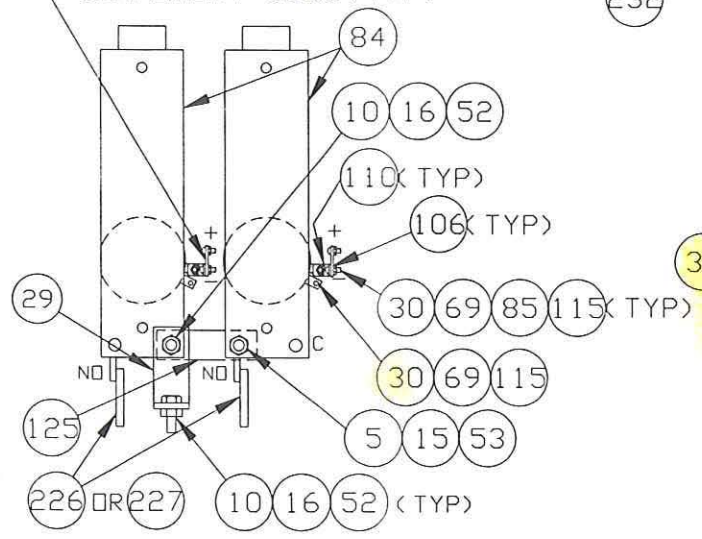
SUPPRESSOR MOUNTING



REV.



COMPONENT SIDE (TYP)



RP1, RP2, RP3, RP4, RP5

NOTE: ITEM #125 IS USED BETWEEN
RP1 AND RP2 ONLY.
ITEM #29 IS USED ON
RP3, RP4 & RP5 ONLY.

CONTROL BOX
ELECTRICAL ASSY

SHEET 8 OF 9

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REL. CK.

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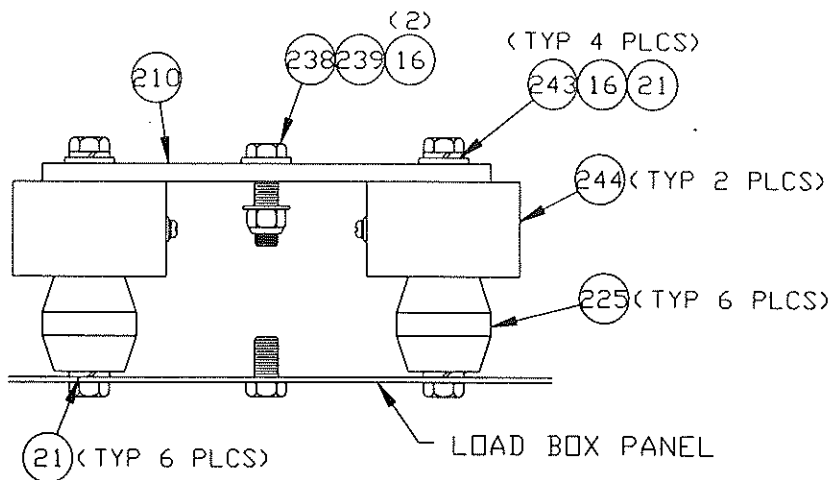
ENG APP.

REL. CK.

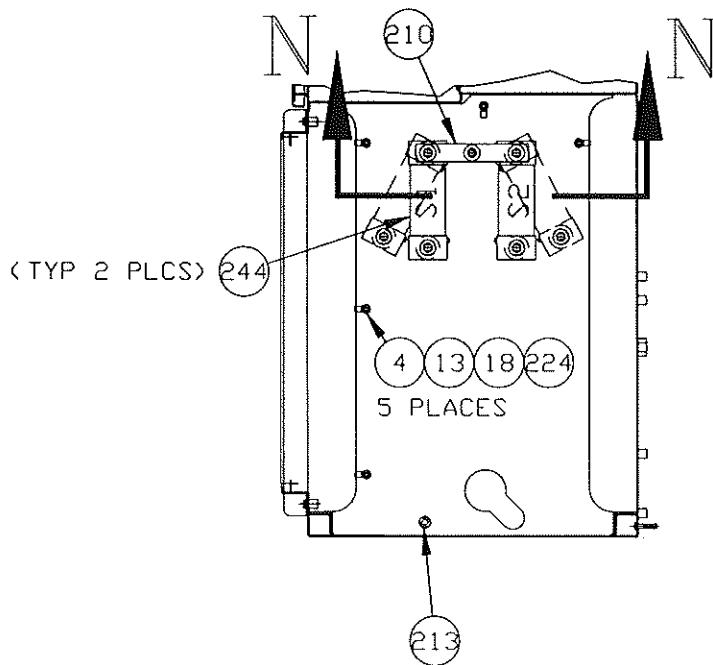
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VIEW N-N



SEC M-M

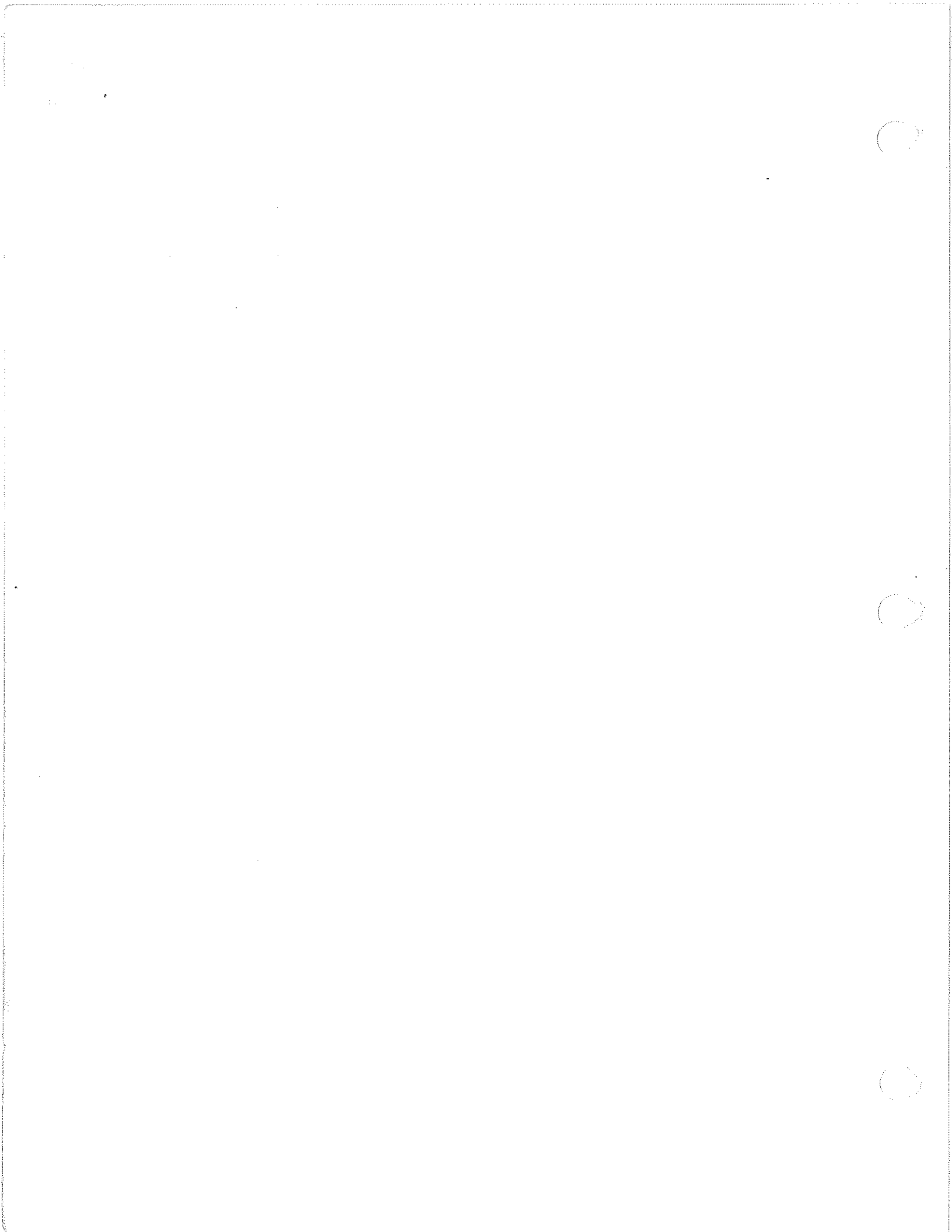


CAD™

CONTROL BOX
 ELECTRICAL ASSY

SHEET 9 OF 9

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8-11-98

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 ENG. APP. SFF
 REL. CK. Ellie

IIM	QTY PER ASSY	COMPONENT	DESCRIPTION
001	1	83957C	CONTROL BOX FAB WITH BUILT-IN LOAD BOX & WEIGH SYSTEM MICRO-CONTROLLER COMPARTMENT
002	38	10001	CAPSCR, HX, 1/4-20NC X 3/4 GR 5
003	7	10003	CAPSCR, HX, 1/4-20NC X 1-1/2 GR 5
004	2	10008	CAPSCR, HX, 5/16-18NC X 1 GR 5
005	27	10013	CAPSCR, HX, 3/8-16NC X 1-1/4 GR 5
006	26	10014	CAPSCR, HX, 3/8-16NC X 1-1/2 GR 5
009	1	10028	CAPSCR, HX, 1/2-13NC X 1-1/4 GR 5
010	8	10031	CAPSCR, HX, 1/2-13NC X 2 GR 5
013	53	10162	WSHR, FL, 1/4 X 0.625 OD
014	16	10163	WSHR, FL, 5/16 X .687 OD
015	45	900813	WSHR, FL, 3/8 X 13/16 OD X 1/8 THK
016	46	22465	WSHR, FL, 1/2
017	2	10176	WSHR, LK, HELI, #6 X .250 OD
018	43	10178	WSHR, LK, HELI, 1/4 X .489 OD
020	28	10180	WSHR, LK, HELI, 3/8 X .683 OD
021	18	10182	WSHR, LK, HELI, 1/2 X .873 OD
029	3	75617B	BUSBAR
030	409	12867	NUT HEX 10-32
031	2	55757	BOARD, SUPP MOUNT
032	8	15675	NUT-HX, CRNLK 1/4-20NC STD GR B
036	4	16427	SCR, MACH, RHD, , 6-32NC X 3/8 GR 2
S 037	REF 2	* 51339 *	CONTACTOR W/INTERLOCK GE P/N 41C663322G2
S 038	REF 1	* 16831 *	RELAY GE P/N 17LV66J46
039	REF 14	16852	BOLT INSUL CONTACTOR GE P/N 6700736G1
040	REF 28	16853	SHIELD CONTACTOR GE P/N 8817358P1
042	2	16888	GRIP 1/2 NPT
043	4	18353	JUMPER ELECTRIC

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*SEE SERVICE PARTS



CONTROL BOX ASSEMBLY

SHEET 1 OF 5
 ASSY.
 NO. A85105A

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ITM	QTY PER ASSY		COMPONENT	DESCRIPTION
045	2		16889	LOCKNUT CONDUIT
051	2		17410	NUT-HEX,FLXLC 5/16-18 FLEXLOC 21FAF-518
052	3		17412	NUT,HX,CRNLK,1/2-13NC STD GR B
053	26		17413	NUT-HEX,FLXLC 3/8-16
054	11		15875	SCR,MACH,RH 10-32NF X 3/8 GR 2
062	110	IN	19144	COVER CHANNEL 2" WIDE
063	185	IN	19147	CHANNEL WIRING 1" X 2"
064	185	IN	19148	COVER CHANNEL 1" WIDE
066	1		19395	BUS TERMINAL
067	31	IN	19286	GASKET BULK PLASTIC COLOR = LIGHT FAWN
069	841		22048	WSHR,FL#10 (SAE) X .437 OD
070	110	IN	20067	CHANNEL WIRING 2" X 3"
074	24		22605	NUT,INSERT,1/4-20UNC
078	REF 8		23178	INSULATOR SHUNT GE P/N 41A260128P1
S 079	REF 1		* 55537 *	CONTACTOR W/INTERLOCK AIRLESS P1
080	10		60423B	PLUG
081	1		23899	BUS BAR
S 084	REF 2		* 51933 *	CONTACTOR W/INTERLOCK
085	61		17547	SCR,MACH,RHD,10-32NF X 1/2 GR 2
093	8		16971	SEAL GRIP
095	REF 4		25687	SHUNT 400A-100MV S3,4 GE P/N 41A256270P8
S 097	REF 1	<i>ofop</i>	* 915387 *	PANEL GE P/N 17FM384C1
098	REF 1		26049	TRANSFORMER RIPPLE GE P/N 17ET33A1
099	REF 1		26050	CLAMP RIPPLE XFMR GE P/N 41B562444G1
S 101	REF 1		* 80733A *	RESISTOR PANEL ASSY GE P/N 17FM494A1
102	REF 2		26276	SPACER RIPPLE XFMR GE P/N 41A250243P66
104	REF 2		27697	PANEL VOLTAGE DIVIDER GE P/N 17FM363B1
S 105	REF 1		* 55538 *	REVERSER AIRLESS REVERSER
106	REF 11		27703	SUPPRESSOR NETWORK GE P/N 41A264833G1
107	REF 1		27704	TRANSFORMER,CURRENT

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CONTROL BOX ASSEMBLY
 SHEET 2 OF 5
 ASSY.
 NO. A85105A

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ITH	QTY PER ASSY	COMPONENT	DESCRIPTION
			GE P/N 41A265608P1 ADAPTER
110	REF 7	27707	
S 111	REF 1	* 51722 *	GE P/N 41A265958P4 PANEL RESISTOR
112	REF 2	29512	GE P/N 41A321917G1 TRANSFORMER ASYN,MSYN
115	402	28537	GE P/N 41A296074P1 WSHR,LK,HELI,#10 X .334 OD
116	1	69408A	BOARD-TERMINAL
117	1	69425A	MARKER-TERMINAL
119	4	29203	SCR,MACH,RHD,10-32NF X 1-3/4 GR 2
S 120	REF 1	* 55290 *	EXCITER,MFSE STATIC
S 121	REF 1	* 55289 *	EXCITER,AFSE STATIC
S 122	REF 1	* 80862A *	GE P/N 17FM466E1 FILTER-AC
S 123	REF 1	* 56267 *	GE P/N 17FM460B1 EXCITER,AFSE STATIC
125	1	81015A	GE P/N 17FM466F1 BAR-BUS
127	410	29831	SEAL BULK HOLLOW
S 133	REF 6	* 78555A *	PANEL ISOAMP CURR
S 138	REF 2	* 78568A *	GE P/N 17FM394A2 MODULE-VOLT MEASURING
140	1	81496B	GE P/N 17FM458A2 SHIELD,GLASTIC
150	REF 1	28388	RESISTOR (CTR)
159	1	15605	GE P/N 41A281267P38 ADHESIVE RUBBER 3M
S 160	REF 1	* A83567C *	PANEL,CARD RACK ASSY
S 161	REF 1	* 83568A *	GE P/N 17FL275E1 EVENT DISPLAY
162	REF 1	29481	GE P/N 41C667315G2 RESISTOR THYRITE
164	REF 2	53881	GE P/N 41A259026P2 CAPACITOR
165	4	17144	GE P/N 41A296302BAP2 CLAMP,CUSHION 2
S 167	REF 1	* 53868 *	KIT, PLUG
168	REF 9	28963	G.E. 41A253300G1 FOR STATEX III
169	3	53898	BOARD TERMINAL 78321
170	3	52706	GE P/N 41A250095G10 RELAY,SPDT 24V
S 174	REF 3	* 51933 *	HOUNT, RELAY
175	1	21417	CONTACTOR W/INTERLOCK
176	24	18634	CIRCUIT BREAKER
177	18	986549	WSHR,LK,HELI,#8
178	4	10011	NUT HEX 8-NC CAPSCR,HX,3/8-16NC

*SEE SERVICE PARTS



CONTROL BOX ASSEMBLY

SHEET 3 OF 5

ASSY.
NO. A85105A

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ITH	QTY PER ASSY	COMPONENT	DESCRIPTION
179	5	83712A	X 3/4 GR 5 SHIELD, GLASTIC
180	4	10002	CAPSCR, HX, 1/4-20NC
181	8	17104	X 1 GR 5 LOCKNUT CONDUIT
183	1	77675B	BAR, BUS SPLICE
184	4	52351	NUT, HX, 1/4-20NC
185	4	17677	STL GR 5 CAPSCR, HX, 1/4-20NC
186	35	17808	X 3 GR 5 NUT, LOCK HX 10-32 NF
188	2	17845	CAPSCR, HX, 5/16-18NC
189	2	10179	X 1/2 GR 5 WSHR, LK, HELI, 5/16
190	1	900503	X .586 OD LIGHT DOME (24 DVC)
191	15	55197	JUMPER, ELECTRIC
192	1	55195	TERMINAL BOARD
193	1	55196	ANTI-STATIC STRAP
194	1	83840B	BRACKET, EVENT DISPLAY
195	1	81052U	HARNESS, CONTROL BOX
197	1	16747	TERM.-ELEC. #8:10
198	1	83846C	NAMEPLATE, ENGLISH
199	10	17808	CODES FOR EVENTS THAT INHIBIT PROPULSION.
200	10	16378	NUT, LOCK HX 10-32 NF
201	1	55230	SCR, MACH, RHD, 10-32NF
202	1	55231	X 3/4 GR 2 BAR, BUS
203	5	17631	BAR, BUS
204	1	55249	SCR, MACH, RHD, 10-32NF
208	1	10029	X 1 GR 2 INDUSTRIAL CLNR, SPRAY
210	1	67586E	CAPSCR, HX, 1/2-13NC
212	1	55299	X 1-1/2 GR 5 BUS BAR
213	1	25980	(ON-BOARD LOAD BOX) PAD, RUBBER
214	1	83848B	GROMMET-SPLIT
215	1	83848E	1/2 ID X 1" OD
217	3	1102852	FOR 3/4 HOLE 3/32 GRV
219	1	24465	ASSEMBLY, RESISTOR
220	1	24464	ASSEMBLY, RESISTOR
221	1	24264	DIODE ASSEMBLY
222	1	22129	FILTER AIR
			ALSO SEE T-128
			ADAPTER-BREATHER
			ADAPTER, NIPPLE, HEX
			1 NPTF, MALE
			BUSH, 1-1/4X1NPT
			FS 6000PSI HEX

DR. MASSIE

ENG. APP.

REL. CK.

90807

90625

E.N. NO.



CONTROL BOX ASSEMBLY

SHEET 4 OF 5

ASSY. NO. A85105A

A85105A

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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
224	5	986494	CLAMP
225	6	23178	INSULATOR SHUNT GE P/N 41A260128P1
226	2	23900	BUS BAR 99% COPPER
227	REF 3	23900	BUS BAR 99% COPPER
228	1	83846E	NAMEPLATE, ENGLISH CODES FOR EVENTS THAT DO NOT INHIBIT PROPULSION.
229	1	25764	ADHESIVE LOCTITE REF
231	1	75617F	BAR, BUS
232	1	75617E	BAR, BUS
236	2	17413	NUT-HEX, FLXLC 3/8-16
237	4	10015	CAPSCR, HX, 3/8-16NC X 1-3/4 GR 5
238	3	10030	CAPSCR, HX, 1/2-13NC X 1-3/4 GR 5
239	2	17412	NUT, HX, CRNLK, 1/2-13NC STD GR B
240	1	16999	PLATE TIE PANDUIT
241	1	26887	TIE STRIP 1/16 TO 8 BUNDLE
243	4	10035	CAPSCR, HX, 1/2-13NC X 3 GR 5
244	REF 2	55991	SHUNT, 2000A/200MV GE P/N 41A296323ACP1
299	REF 1	A85105	DWG ONLY, CNTRL BX ASY

WITH AIRLESS P1 &
REVERSER

DR.

MASSIE

ENG. APP.

REL. CK.

90807

90625

E.N. NO.

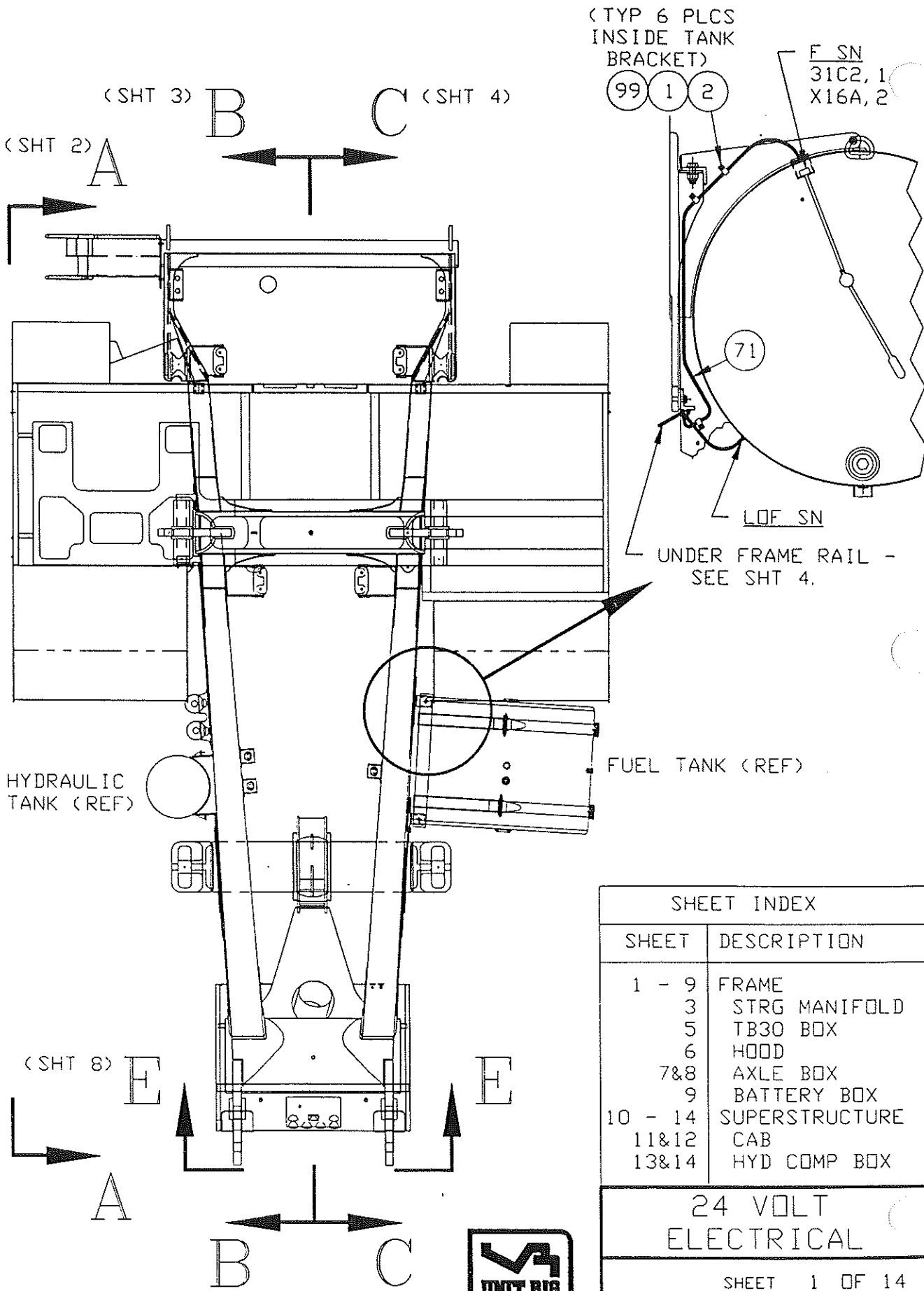


CONTROL BOX ASSEMBLY

SHEET 5 OF 5
ASSY.
NO. A85105A

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 ENG. APP. SLF
 REL. CK. ELLIS

SHEET INDEX	
SHEET	DESCRIPTION
1 - 9	FRAME
3	STRG MANIFOLD
5	TB30 BOX
6	HOOD
7&8	AXLE BOX
9	BATTERY BOX
10 - 14	SUPERSTRUCTURE
11&12	CAB
13&14	HYD COMP BOX

24 VOLT ELECTRICAL

SHEET 1 OF 14
 A85164

90927
 E.N. NO.



E.N. NO. 90927

REL. CR. DR. MASSIE ENG. APP.

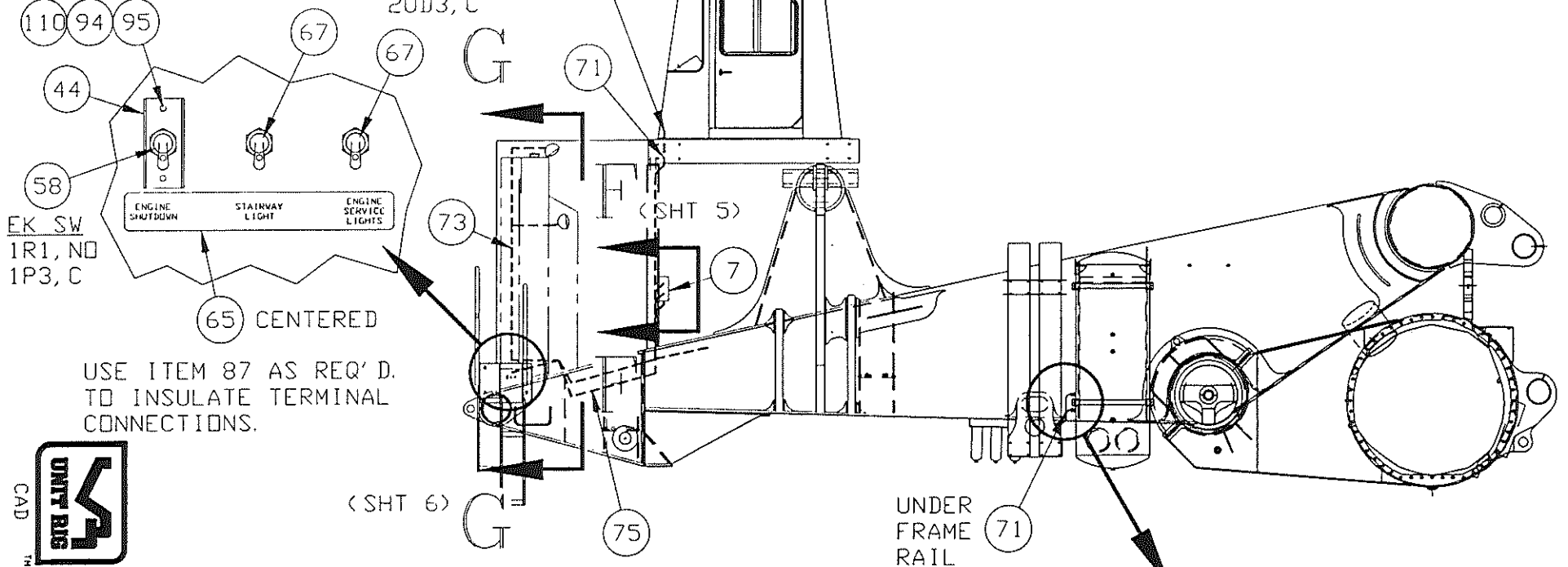
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(TYP 2 PLCS)
SLT SW
21G3, NO
21A3, NC
22A1, C

ESVLT SW
21D1, NO
20D3, C

HARNESS SHOULD MEASURE APPROX 50 INCHES FROM TOP SUPPORT CLAMP ON COLUMN TO CAB FLOOR.



EK SW
1R1, NO
1P3, C

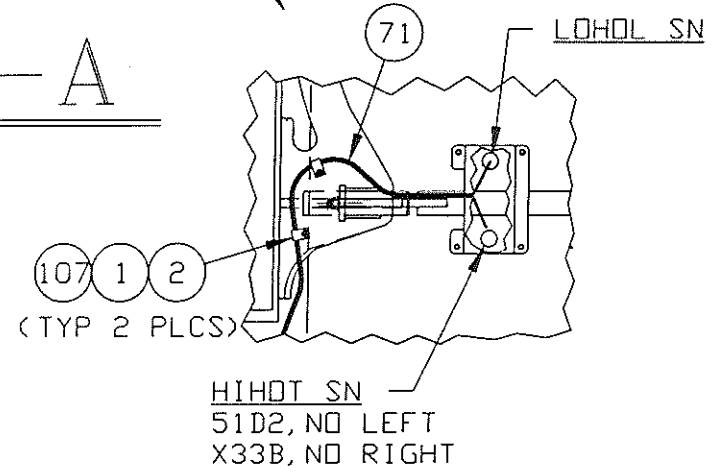
(65) CENTERED

USE ITEM 87 AS REQ' D. TO INSULATE TERMINAL CONNECTIONS.

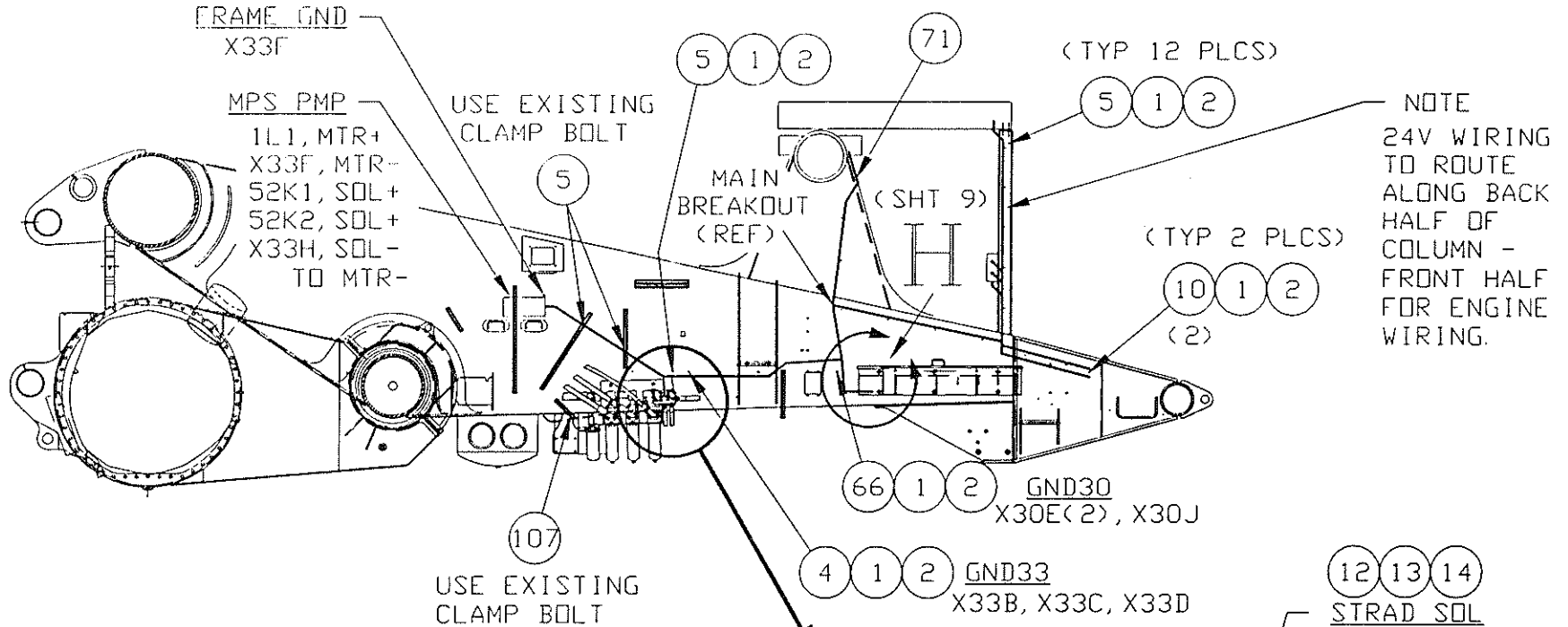


(SHT 6)

VIEW A-A

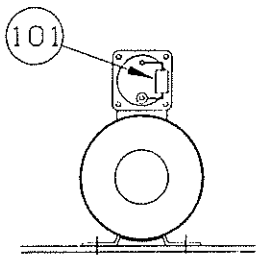


24 VOLT ELECTRICAL SHEET 2 OF 14 A85164

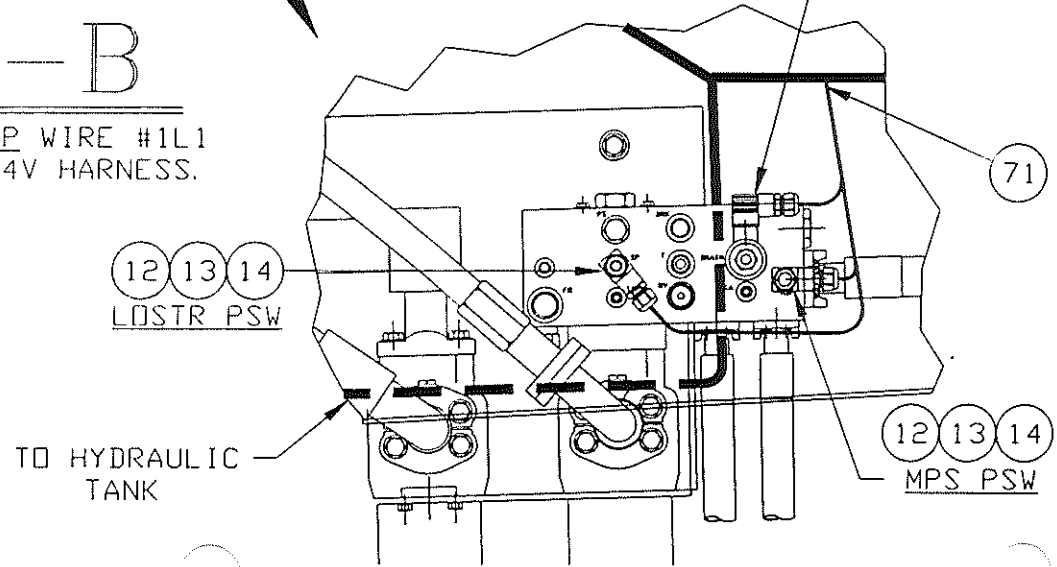


VIEW B-B

TY-RAP MPS PMP WIRE #1L1 TO EXISTING 24V HARNESS.



MPS DIODE MOUNTING



24 VOLT ELECTRICAL

SHEET 3 OF 14

A85164

E.N. NO.
90927

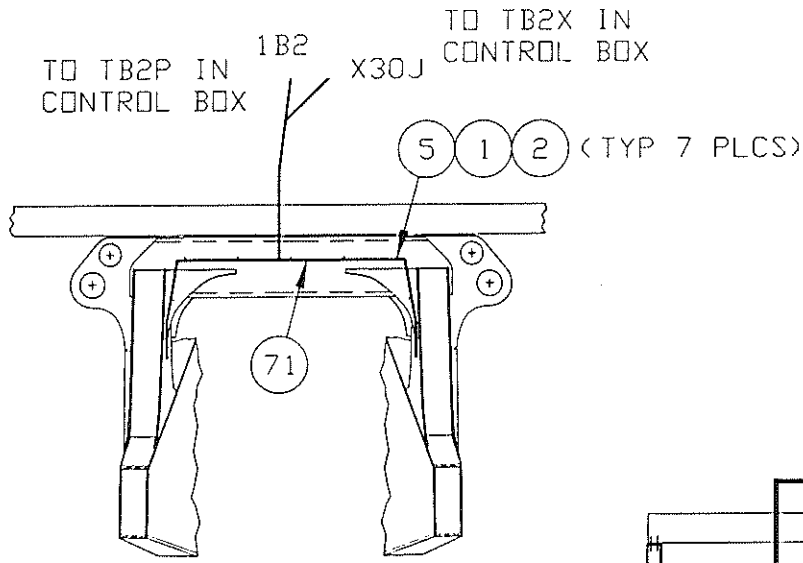
REL. CK:

DRG.
MASSIE
ENG. APPR:

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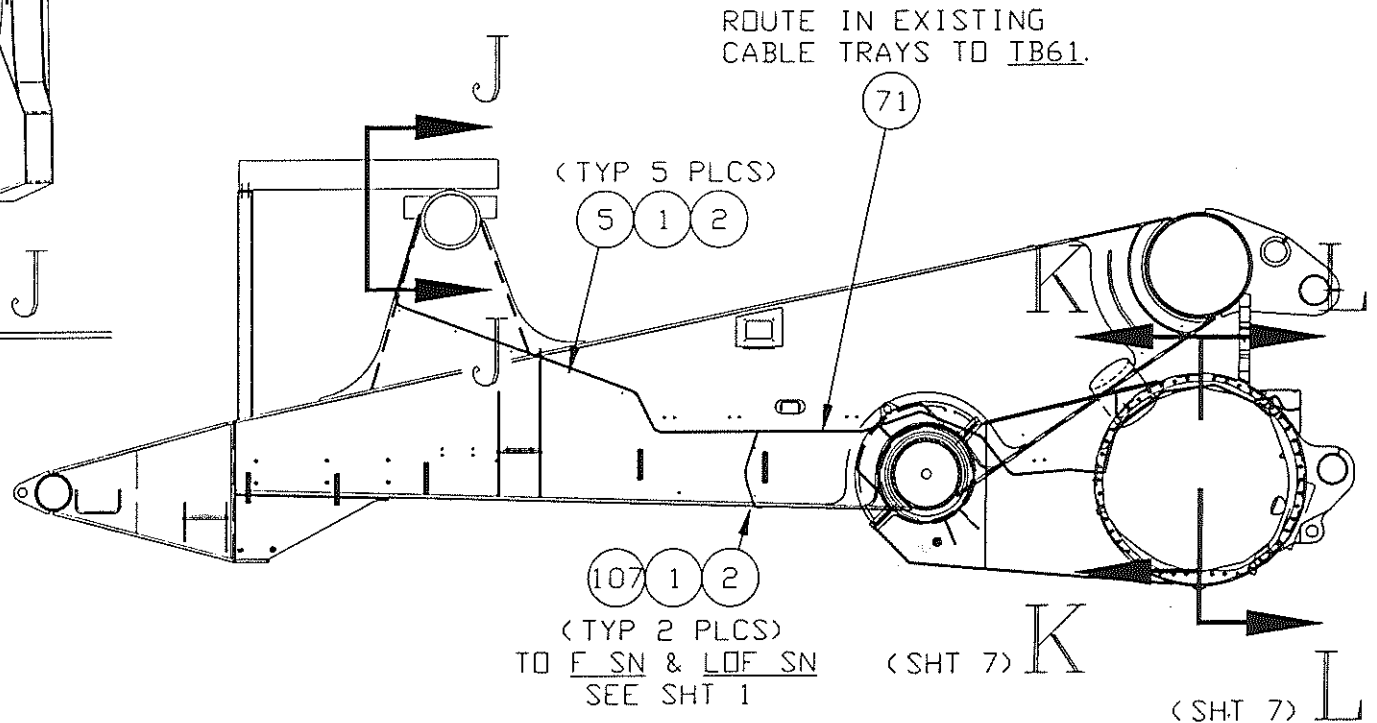
AIVERT



VIEW

J—J

ROUTE IN EXISTING
CABLE TRAYS TO IB61.



VIEW

C—C



24 VOLT
ELECTRICAL

SHEET 4 OF 14

A85164

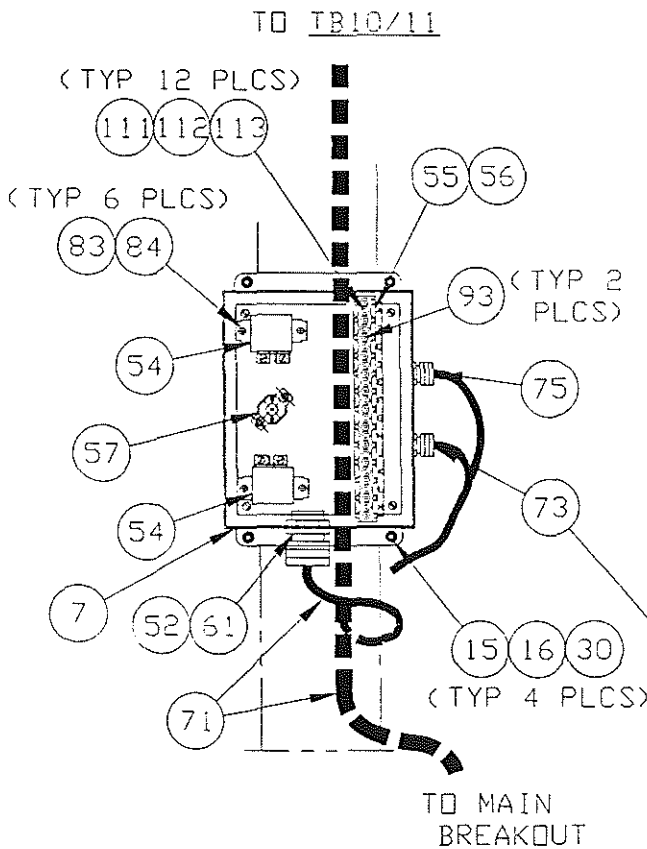
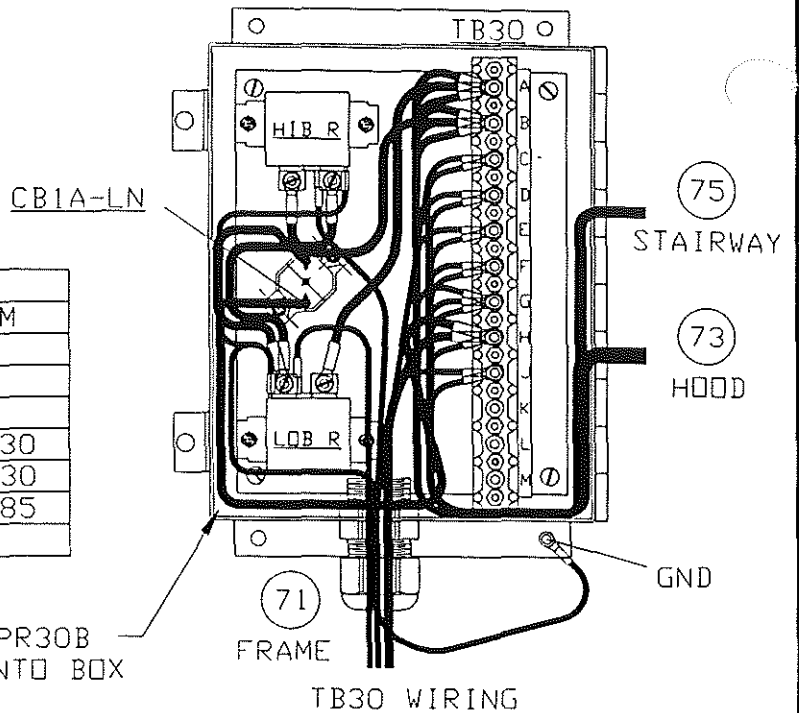
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 ENG. APP
 REL. CK.

RELAY VS. FRAME HARNESS WIRE #	
RELAY	WIRE #
LOB R-86	11B2
HIB R-86	11C3

INTERNAL DEVICE WIRING	
WIRE #	TO ← → FROM
11B5	LOB R-87 --- TB30A
11C6	HIB R-87 --- TB30B
1P2	CB1A-LN ---- TB30H
10AA1	CB1A-LD ---- LOB R-30
10AA2	LOB R-30 --- HIB R-30
X30L	LOB R-85 --- HIB R-85
X30K	LOB R-85 --- GND



TB30 VS. HARNESS WIRE #			
TB30	FRAME	STAIRWAY	HOOD
A			11B3 11B4 11B5* 11B6 11B7
B			11C4 11C5 11C6* 11C7 11C8
C	20D2	20D3	
D	21G2	21G3	
E	21A2	21A3	
F		22A1	22A2
G		21D1	21D3 21D2
H	1P1	1P3	1P2*
J	1R3	1R1	
K			
L			
M			

* = INTERNAL WIRES

ENLARGE EXISTING GRIP HOLE TO Ø1 1/16

VIEW F-F
 TB30 ASSEMBLY



24 VOLT ELECTRICAL

SHEET 5 OF 14

A85164

A85164

AVERS

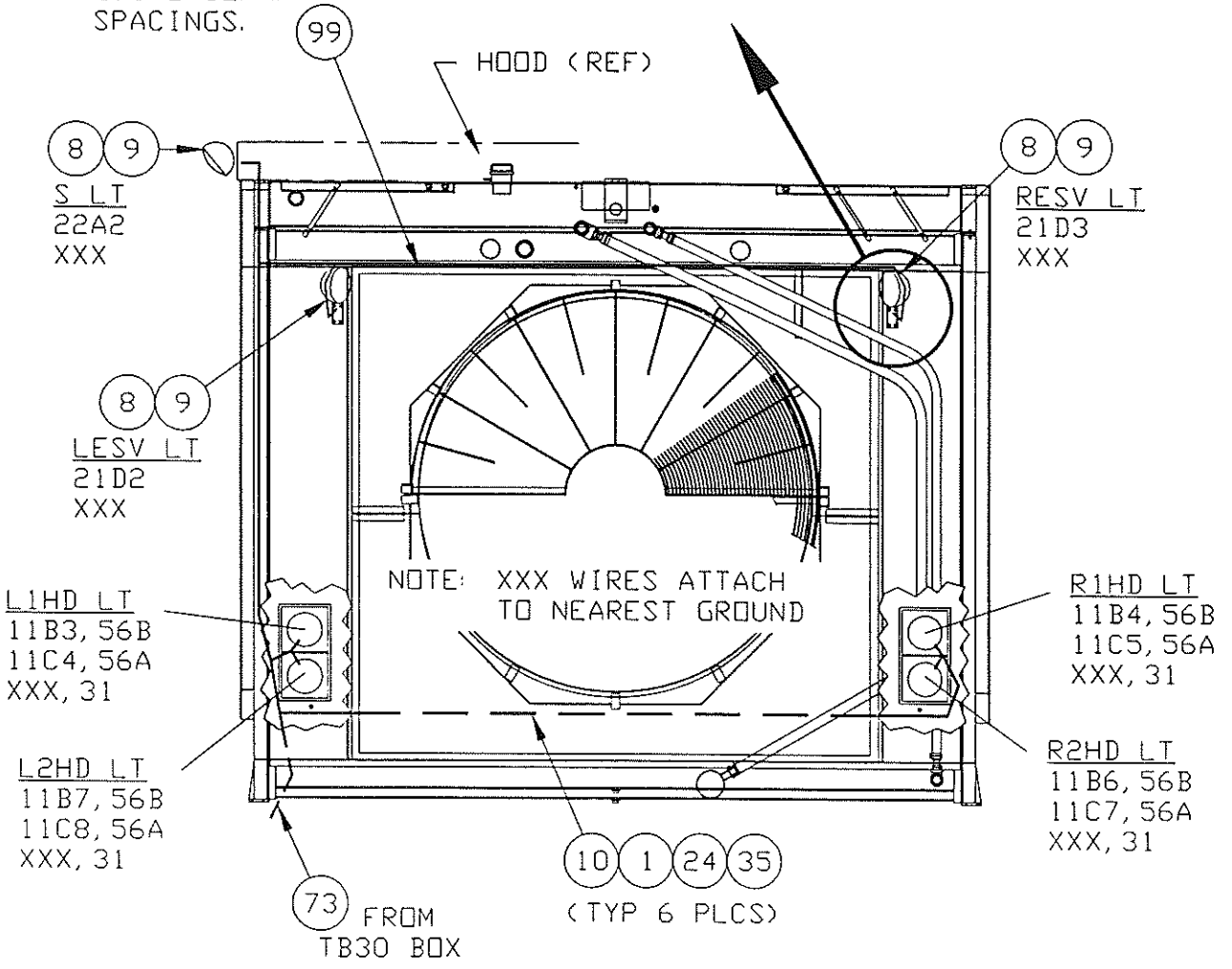
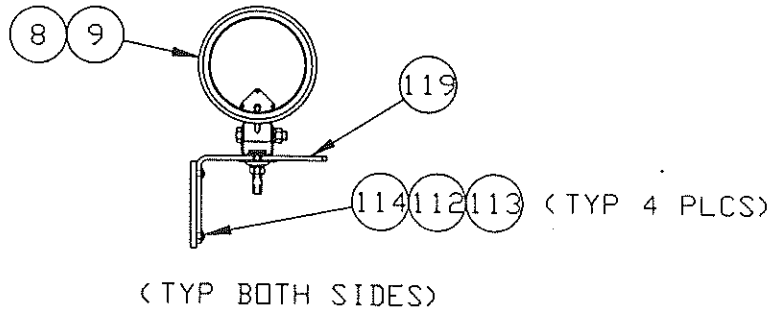
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E.N. NO.

(TYP 4 PLCS ON LEFT SIDE & ACROSS TOP). USE EXISTING HARDWARE AND EQUAL CLAMP SPACINGS.



VIEW G-G



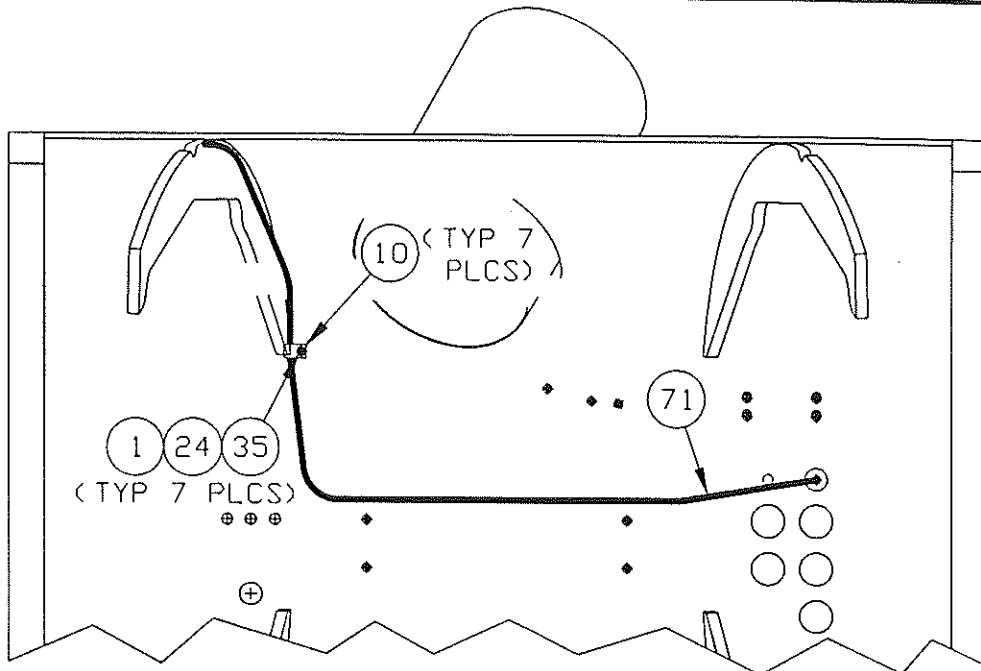
24 VOLT ELECTRICAL

SHEET 6 OF 14

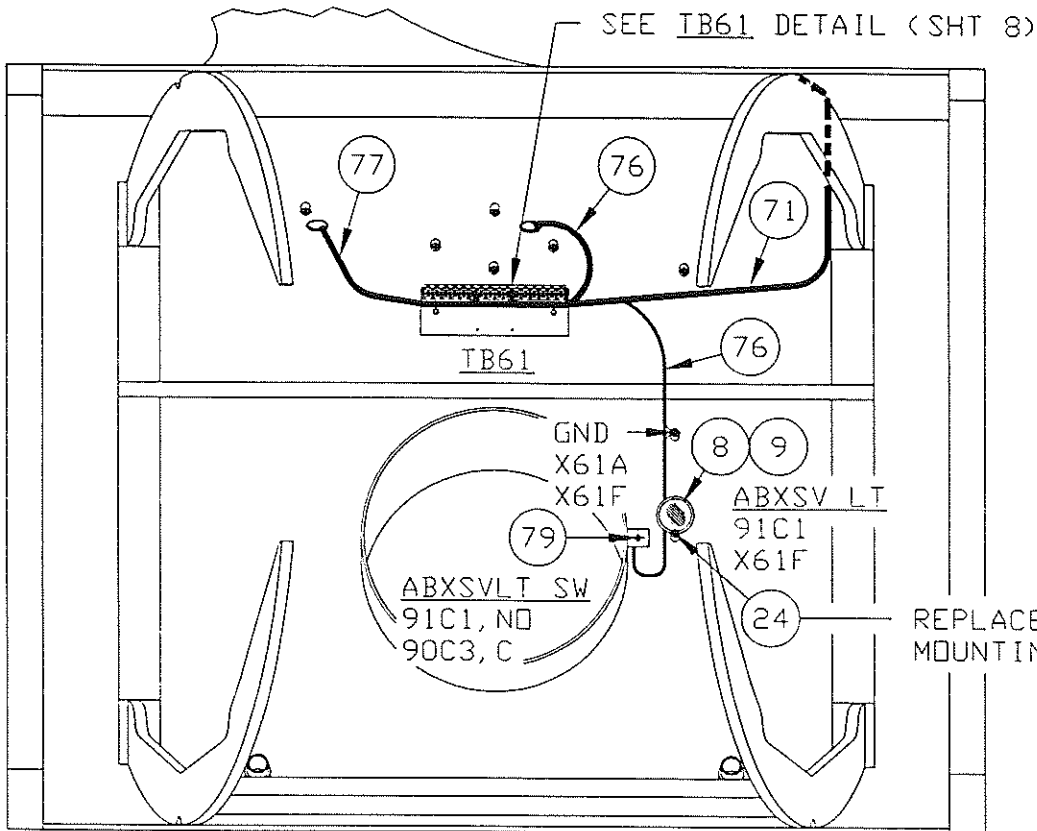
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VIEW K-K



VIEW L-L



24 VOLT
 ELECTRICAL

SHEET 7 OF 14

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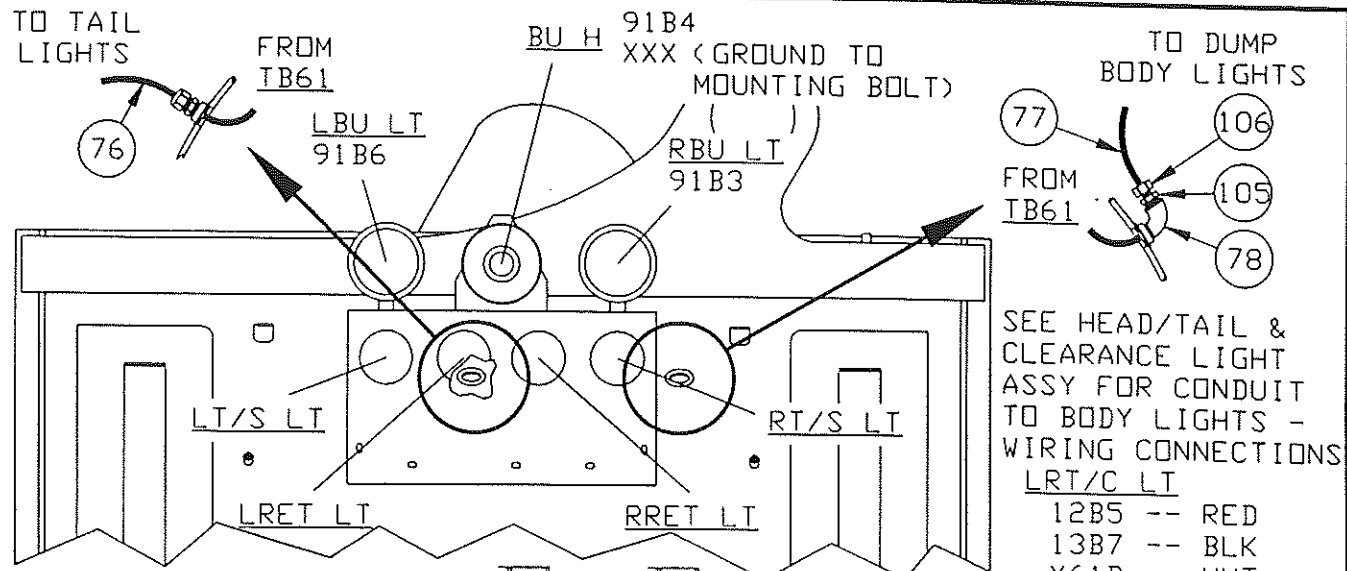
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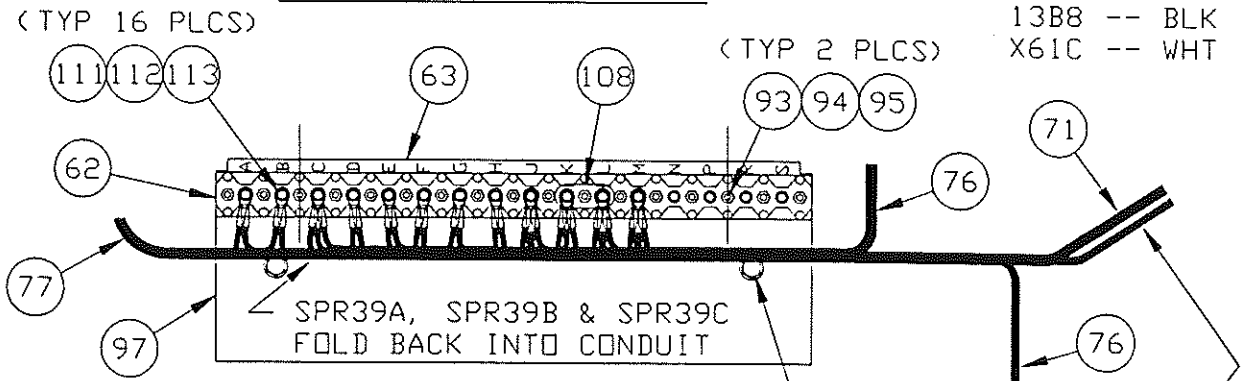
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SEE HEAD/TAIL & CLEARANCE LIGHT ASSY FOR CONDUIT TO BODY LIGHTS - WIRING CONNECTIONS

- LRT/C LT
- 12B5 -- RED
 - 13B7 -- BLK
 - X61B -- WHT
- RRT/C LT
- 12F5 -- RED
 - 13B8 -- BLK
 - X61C -- WHT

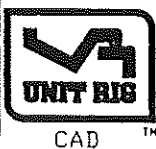
VIEW E-E



TB61 DETAIL

TB61	FRAME	D BODY	AXLE BOX
A	13B5	13B7	
B	12B4	12B5	
C	13B3		BLK<LT/S-LT> BLK<RT/S-LT>
D	12C2		RED<LT/S-LT>
E	12E2		RED<RT/S-LT>
F	13B6	13B8	
G	12F4	12F5	
H	90C2		90C3
J	91B2		91B3 91B4 91B6
K		X61B X61C	WHT<LT/S-LT> WHT<RT/S-LT>
L			X61A WHT<LRET-LT> WHT<RRET-LT>
M			RED<LRET-LT> RED<RRET-LT> (----)
N			
P			
R			
S			

TB61M FROM CONTROL BOX -- SEE POWER & EXCITATION FOR APPLICABLE WIRE NO.



24 VOLT
ELECTRICAL

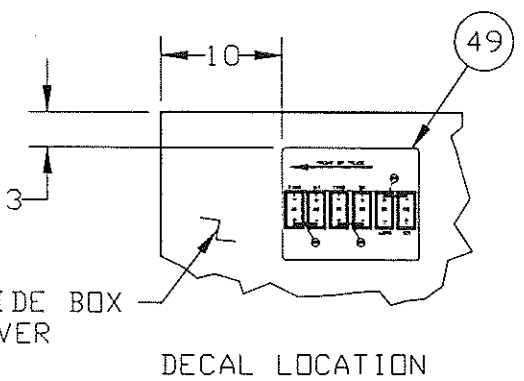
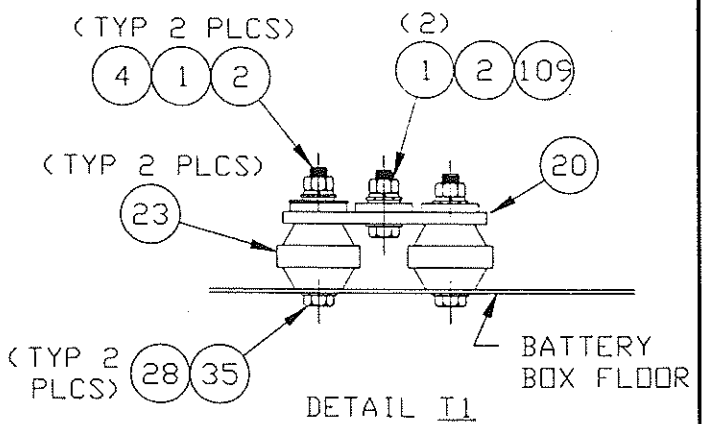
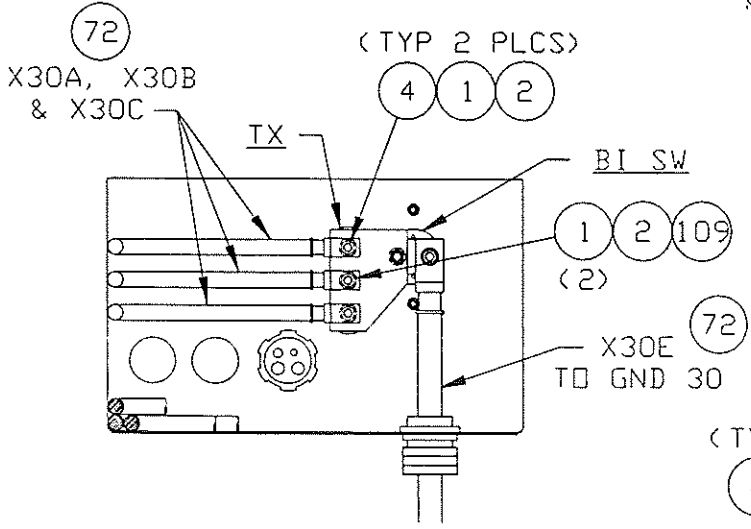
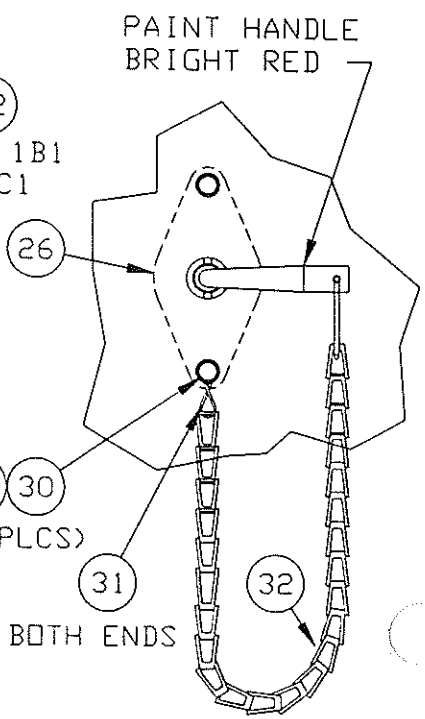
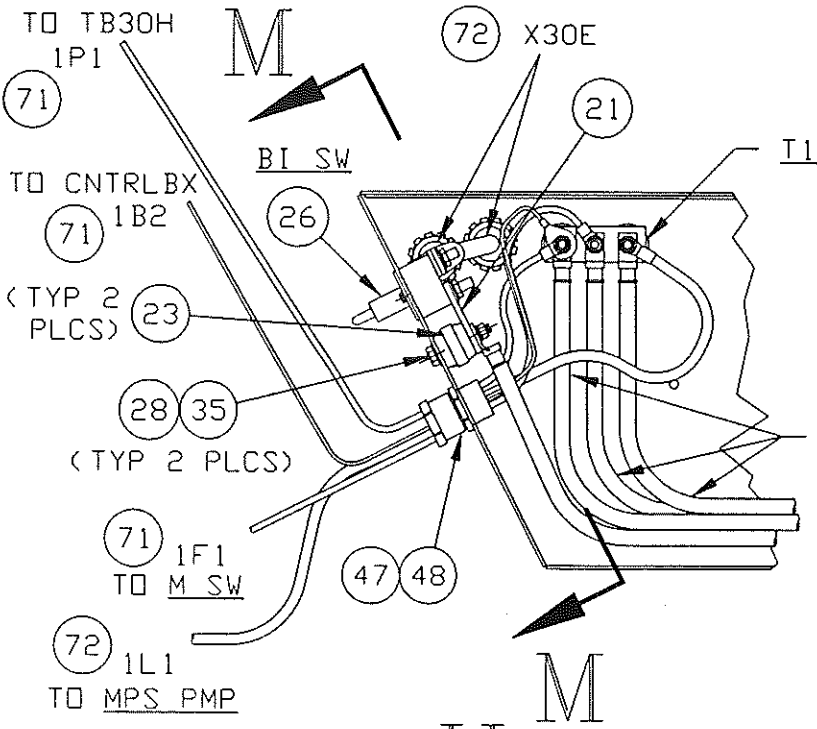
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24 VOLT
 ELECTRICAL
 SHEET 9 OF 14
 A85164

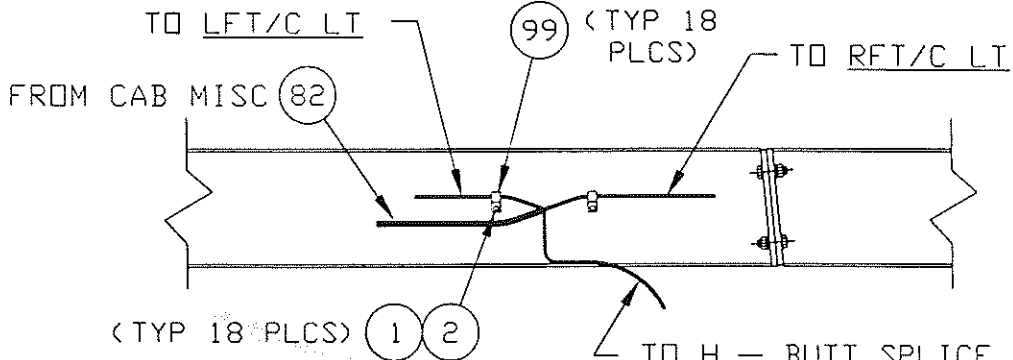
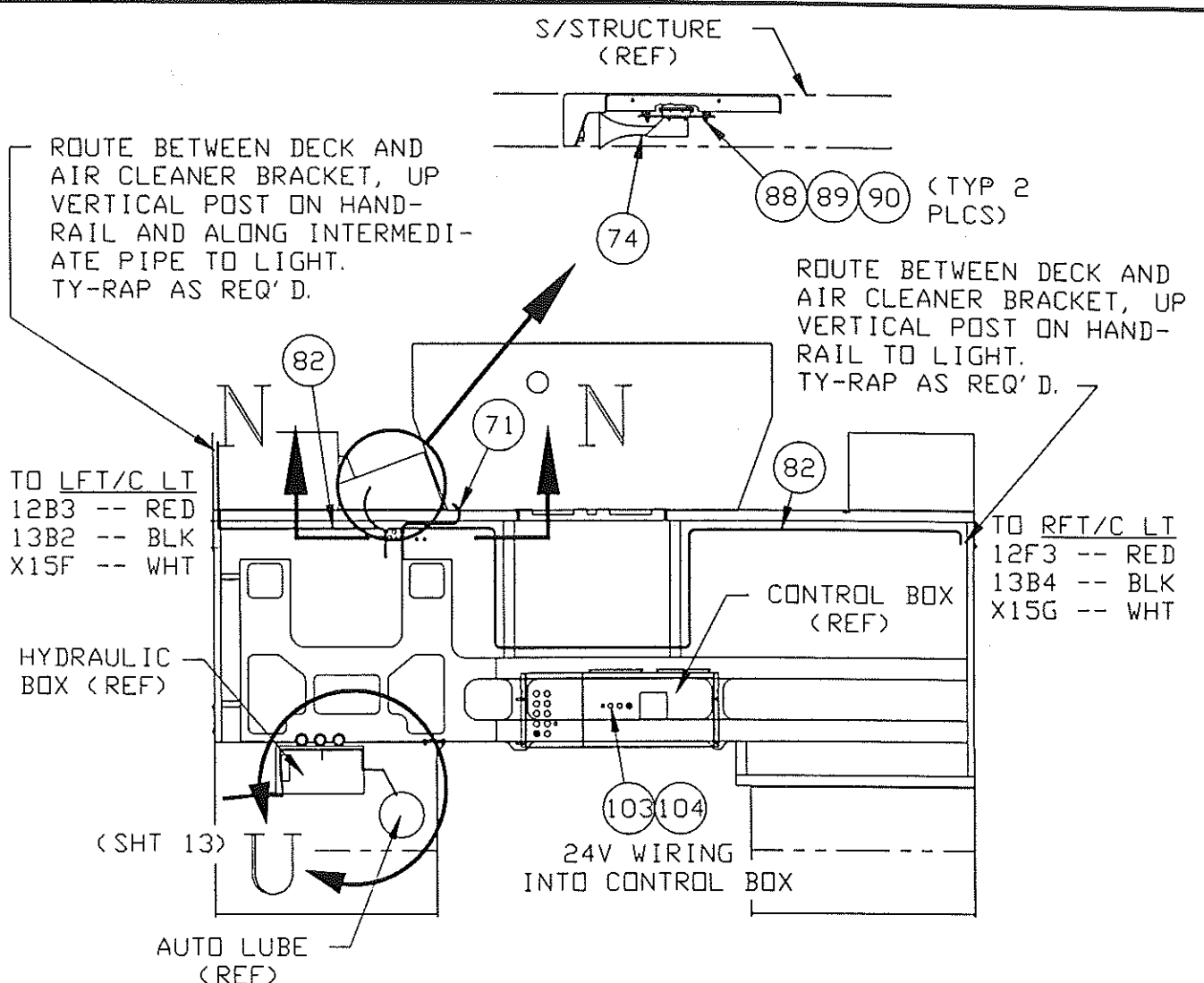
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REL. CK.

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E.N. NO.



VIEW N-N

TO H — BUTT SPLICE TO EXISTING PIGTAIL ON HOOTER AS FOLLOWS:
 11D2 TO H (BLK)
 10C2 TO H (RED)
 HOOTER MOUNTED UNDER LADDER PLATFORM PER VIEW ABOVE.



24 VOLT ELECTRICAL

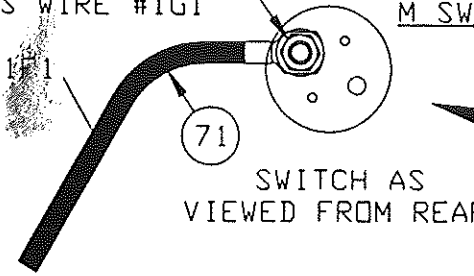
SHEET 10 OF 14

A85164

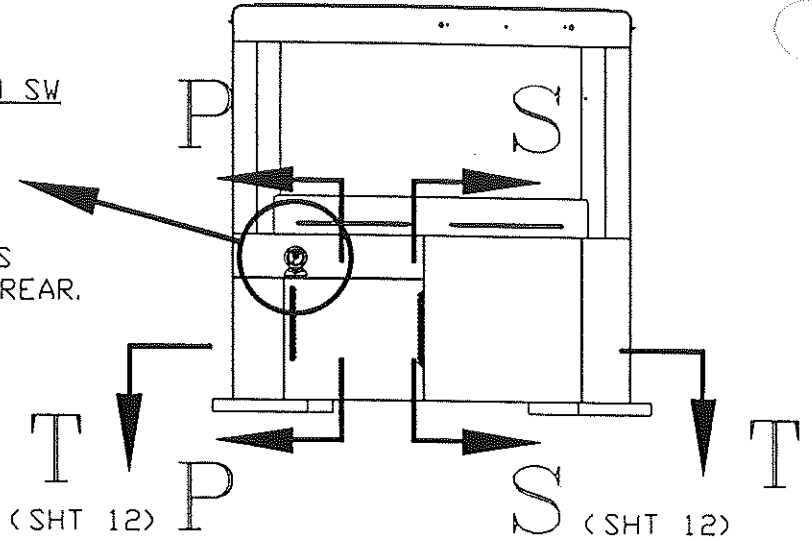
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CONNECT TO SAME TERMINAL AS WIRE #1G1

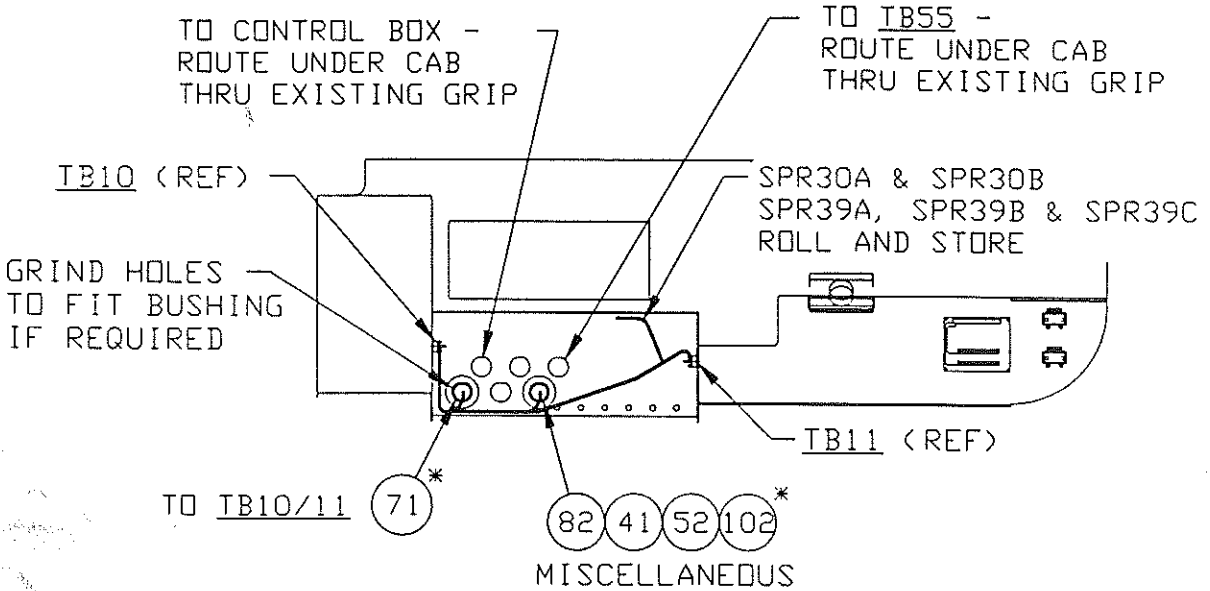


SWITCH AS VIEWED FROM REAR.



FRONT VIEW OF CAB

SEE CAB HARNESS INSTALLATION FOR INTERFACE OF CONTROL BOX AND HYDRAULIC COMPONENTS BOX TO CAB



VIEW T-T

* NOTE: DOUBLE NUT BUSHING TO CAB FLOOR.



24 VOLT ELECTRICAL

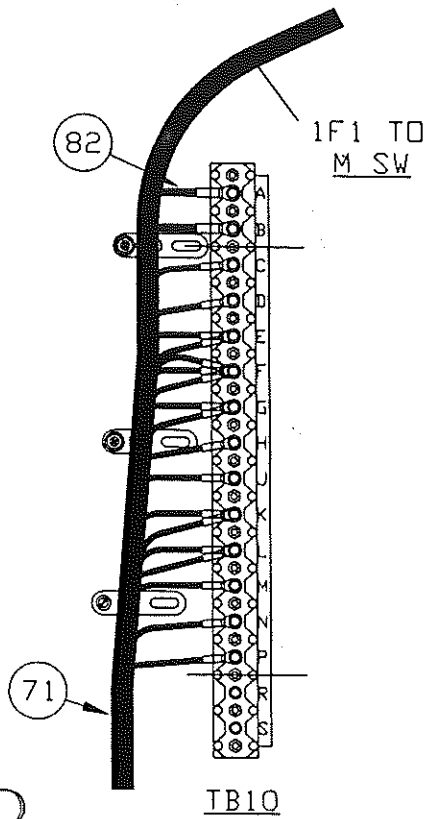
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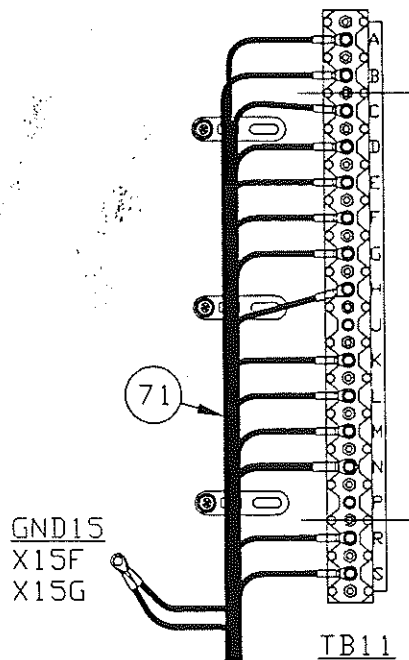
A85164

TB10 VS. HARNESS WIRE #		
TB10	FRAME	S/STRUCT
A		10C2
B		11D2
C	11B2	
D	11C3	
E	13B5 13B6	
F	13B3	13B2 13B4
G	12B4	12B3
H	12C2	
J	12E2	
K	12F4	12F3
L	X16A X16AD	
M	31C2	
N	30D2	
P	31E2	
R		
S		



VIEW P-P

TB11 VS. HARNESS WIRE #	
TB11	FRAME
A	21G2
B	21A2
C	20D2
D	90C2
E	50F2
F	51F1
G	1R3
H	22G2
J	
K	51D2
L	30J2
M	31K2
N	91B2
P	
R	51K2
S	52K2



VIEW S-S



24 VOLT ELECTRICAL
SHEET 12 OF 14
A85164

90927
E.N. NO.

TIE WRAP HARNESS WIRES TO
EXISTING CAB HARNESS WIRES

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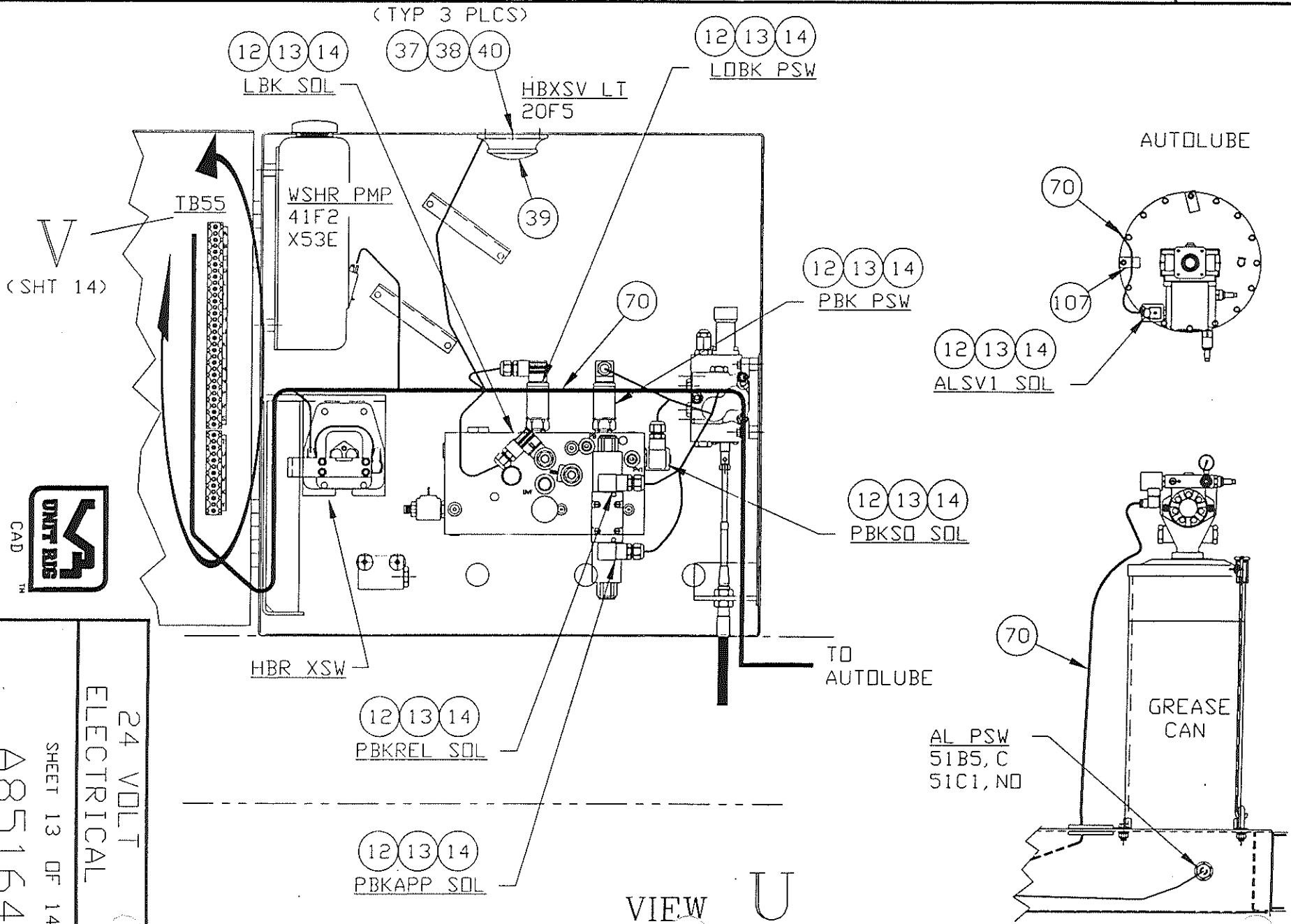
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E.N. NO.
90927

DRG. MASSIE
 DATE: APR 83

REL. EX.

(TYP 3 PLCS)



VIEW U



24 VOLT
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 SHEET 13 OF 14
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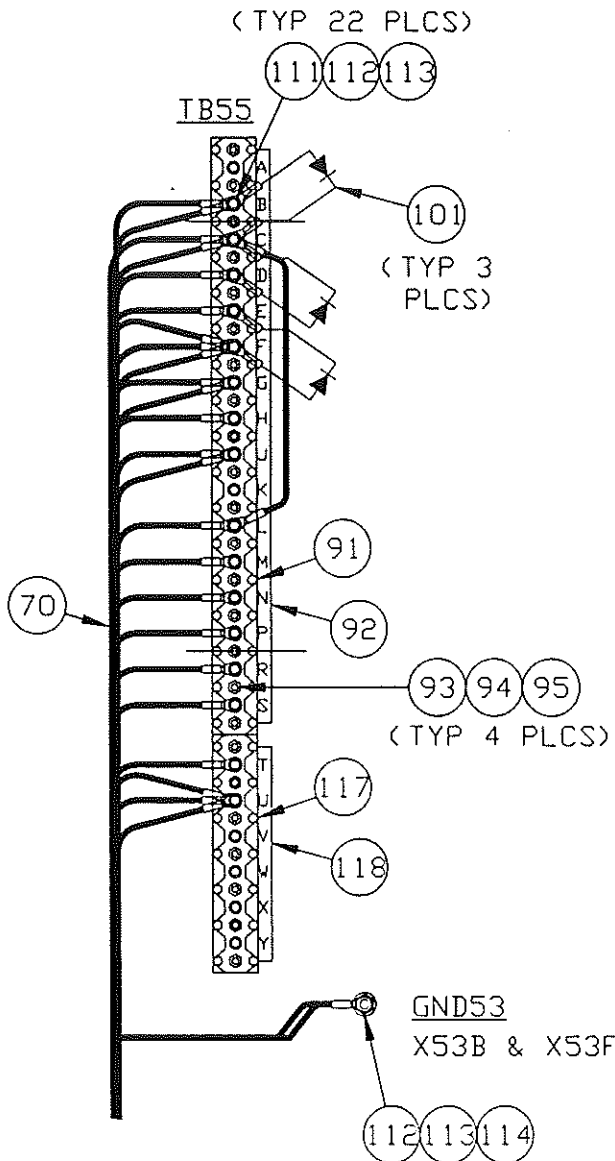
ENG. APP.

REL. CK.

90927

E.N. NO.

A85164



VIEW V

SEE CAB HARNESS INSTALLATION FOR INTERFACE
 OF HYDRAULIC COMPONENTS BOX TO CAB.

TB55 VS. HARNESS WIRE #	
TB55	HYD BOX
A	
B	25B1 25B3
C	25A5 25A6 JUMP
D	25C1
E	21C3
F	X53A X53B X53C X53D
G	20F2 20F5
H	21H2
J	51B4 51B5
K	
L	25A7 JUMP
M	80E2
N	81E1
P	31L2
R	51C1
S	89CR3
T	41F2
U	X53E X53F X53H
V	
W	
X	
Y	



CAD™

24 VOLT
 ELECTRICAL

SHEET 14 OF 14

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AVGRS

ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
1	6.00	10164	WSHR, FL, 3/8 X 1.000 OD
1	55.00	10164	WSHR, FL, 3/8 X 1.000 OD
1	18.00	10164	WSHR, FL, 3/8 X 1.000 OD
2	46.00	17413	NUT-HEX, FLXLC 3/8-16
2	18.00	17413	NUT-HEX, FLXLC 3/8-16
4	7.00	79022B	ROD, ALL THRD, 3/8-16NC X 2" LG
5	27.00	18367	CLAMP-CUSHION 1-1/4
7	1.00	84514J	BOX, JUNCTION (TB30)
8	1.00	55951	LAMP, SEAL BEAM
8	3.00	55951	LAMP, SEAL BEAM
9	1.00	56197	HOUSING, LIGHT
9	3.00	56197	HOUSING, LIGHT
10	6.00	17141	CLAMP-CUSHION 7/8 7/8" ID
10	11.00	17141	CLAMP-CUSHION 7/8 7/8" ID
11	2.00	10001	CAPSCR, HX, 1/4-20NC X 3/4 GR 5
12	.00	55943	CONNECTOR-1/2NPTF DIN 43650
13	.00	55944	GASKET DIN 43650 CONN.
14	.00	84693C	GRIP (DWG 84693A-Z) 1/2" STR - PVC PIPE
15	4.00	10002	CAPSCR, HX, 1/4-20NC X 1 GR 5
16	6.00	10162	WSHR, FL, 1/4 X 0.625 OD
16	2.00	10162	WSHR, FL, 1/4 X 0.625 OD
17	2.00	10178	WSHR, LK, HELI, 1/4 X .489 OD
20	1.00	84372A	BAR, BUS
21	1.00	84372C	BAR, BUS
23	4.00	23177	INSULATOR SHUNT
24	7.00	10011	CAPSCR, HX, 3/8-16NC X 3/4 GR 5
24	1.00	10011	CAPSCR, HX, 3/8-16NC X 3/4 GR 5
24	6.00	10011	CAPSCR, HX, 3/8-16NC X 3/4 GR 5
26	1.00	55580	SWITCH, BATTERY MASTER 24VDC 2500A @ 10 SEC. 250A CONTINUOUS.

DR. MASSIE

ENG. APP. SLF

REL. CK. ELLIS

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E.N. NO.



24V ELECTRICAL
ASSEMBLY

SHEET 1 OF 5
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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
28	4.00	16342	CAPSCR, HX, 3/8-16NC X 1/2 GR 5
29	2.00	10002	CAPSCR, HX, 1/4-20NC X 1 GR 5
30	6.00	15675	NUT-HX, CRNLK 1/4-20NC STD GR B
31	2.00	28970	HOOK-WIRE
32	36.00	14238	CHAIN BULK #8 SASH
35	11.00	10180	WSHR, LK, HELI, 3/8 X .683 OD
35	6.00	10180	WSHR, LK, HELI, 3/8 X .683 OD
37	3.00	15874	SCR, MACH, RHD, 6-32NC X 1 GR 2
38	3.00	25253	NUT-LOCK HX 6-32NC
39	1.00	900503	LIGHT DOME (24 DVC)
40	3.00	22068	WSHR, FL, #6 X .375 OD
41	1.00	22129	BUSH, 1-1/4X1NPT FS 6000PSI HEX
44	1.00	16787	GUARD-METAL SWITCH
47	1.00	24750	GRIP-SEALING (1.125 - 1.250)
48	1.00	84717F	LOCNUT (DWG 84717A-Z) 1-1/2 NPT
49	1.00	84395A	DECAL, BATTERY BOX
52	1.00	84693H	GRIP (DWG 84693A-Z) 1" STR - PVC PIPE
52	1.00	84693H	GRIP (DWG 84693A-Z) 1" STR - PVC PIPE
54	2.00	55962 350836	RELAY-POWER, 24VOLT
55	1.00	24121	TERMINAL STRIP
56	1.00	24717	MARKER TERMINAL A-M
57	1.00	20167	BREAKER-CIRCUIT
58	1.00	21546	SWITCH SPST MOMENTARY
61	1.00	84717C	LOCNUT (DWG 84717A-Z) 1" NPT
62	1.00	28309	BOARD TERMINAL
63	1.00	28310	MARKER TERMINAL
65	1.00	85140C	NAMEPLATE (ENGLISH) ENGINE SHUTDOWN STAIRWAY LIGHT ENGINE
66	1.00	79022G	SERVICE LIGHTS ROD, ALL THRD, 3/8-16NC X 3" LG



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24V ELECTRICAL
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SHEET 2 OF 5

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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
67	2.00	55578	SWITCH TOGGLE SPDT 3-WAY FOR STAIRWAY LIGHT. MS35058-23. MIL-S-3905B.
70	1.00	84274F	WIRE HARNESS ASSEMBLY HYDRAULIC CABINET
71	1.00	84274G	WIRE HARNESS ASSEMBLY FRAME
72	1.00	84274P	KIT, BATTERY CABLE CONNECTS TO BATTERIES
73	1.00	84274M	WIRE HARNESS ASSEMBLY HOOD
74	1.00	55617	HORN-ELECTRIC 24VDC 114DB @ 10'
75	1.00	84274N	WIRE HARNESS ASSEMBLY STAIRWAY
76	1.00	84274H	WIRE HARNESS ASSEMBLY AXLE BOX
77	1.00	84274K	WIRE HARNESS ASSEMBLY DUMP BODY
78	1.00	19994	ELL-PIPE 90 ST(1NPT)
79	1.00	21382	SWITCH TOGGLE
82	1.00	84274J	WIRE HARNESS ASSEMBLY S/STRUCTURE
83	6.00	52336	SCR, MACH, PNH, 10-32NF X 1/2 GR 2
84	6.00	28537	WSHR, LK, HELI, #10 X .334 OD
87	1.00	29928	INSL PAD ADHESIVE
88	2.00	10028	CAPSCR, HX, 1/2-13NC X 1-1/4 GR 5
89	2.00	17412	NUT, HX, CRNLK, 1/2-13NC STD GR B
90	2.00	22465	WSHR, FL, 1/2
91	1.00	28309	BOARD TERMINAL
92	1.00	28310	MARKER TERMINAL
93	2.00	25650	SCR, MACH, RHD, 6-32NC X 5/8 GR 2
93	2.00	25650	SCR, MACH, RHD, 6-32NC X 5/8 GR 2
93	4.00	25650	SCR, MACH, RHD, 6-32NC X 5/8 GR 2
94	2.00	25253	NUT-LOCK HX 6-32NC
94	2.00	25253	NUT-LOCK HX 6-32NC
94	4.00	25253	NUT-LOCK HX 6-32NC
95	2.00	22068	WSHR, FL, #6 X .375 OD
95	2.00	22068	WSHR, FL, #6 X .375 OD



24V ELECTRICAL
 ASSEMBLY

SHEET 3 OF 5

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E.N. NO.

ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
95	4.00	22068	WSHR, FL, #6 X .375 OD
97	1.00	76745B	BRACKET, TERM BOARD
99	6.00	56296	CLAMP, CUSHION 3/8"
99	18.00	56296	CLAMP, CUSHION 3/8"
99	8.00	56296	CLAMP, CUSHION 3/8"
101	3.00	1102852	DIODE ASSEMBLY
101	1.00	1102852	DIODE ASSEMBLY
102	2.00	16821	LOCKNUT CONDUIT
103	1.00	53957	GRIP, SEALING (1.250 - 1.375)
104	1.00	16819	LOCKNUT CONDUIT
105	1.00	10197	BUSH, 1X1/2NPT MI 150PSI HEX
106	1.00	53410	CONNECTOR 1/2 PVC CONDUIT BULKHEAD
107	1.00	18666	CLAMP LOOP 19/32 I. D.
107	5.00	18666	CLAMP LOOP 19/32 I. D.
108	1.00	56275	JUMPER, TERMINAL BOARD
109	2.00	10013	CAPSCR, HX, 3/8-16NC X 1-1/4 GR 5
110	2.00	10455	SCR, MACH, RHD, 6-32NC X 3/4 GR 2
111	12.00	12867	NUT HEX 10-32
111	16.00	12867	NUT HEX 10-32
111	22.00	12867	NUT HEX 10-32
112	23.00	22048	WSHR, FL#10 (SAE) X .437 OD
112	12.00	22048	WSHR, FL#10 (SAE) X .437 OD
112	16.00	22048	WSHR, FL#10 (SAE) X .437 OD
112	8.00	22048	WSHR, FL#10 (SAE) X .437 OD
113	23.00	28537	WSHR, LK, HELI, #10 X .334 OD
113	12.00	28537	WSHR, LK, HELI, #10 X .334 OD
113	16.00	28537	WSHR, LK, HELI, #10 X .334 OD
113	8.00	28537	WSHR, LK, HELI, #10 X .334 OD
114	1.00	52336	SCR, MACH, PNH, 10-32NF X 1/2 GR 2
114	8.00	52336	SCR, MACH, PNH, 10-32NF X 1/2 GR 2



24V ELECTRICAL ASSEMBLY

SHEET 4 OF 5

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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
117	1.00	25606	STRIP-TERMINAL
118	1.00	55696	MARKER, TERMINAL
119	2.00	85192A	BRACKET, SERVICE LIGHT
199	.00	A85164	DWG ONLY, 24V ELECTRIC

FOR MT4400 - APPLICABLE
 TO UNITS WITH OR WITHOUT
 MANUAL POWER SUPPLY.

DR.
 MASSIE

ENG. APP.

REL. CK.

90927

E.N. NO.



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24V ELECTRICAL
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SHEET 5 OF 5

A85164A

3

3

3



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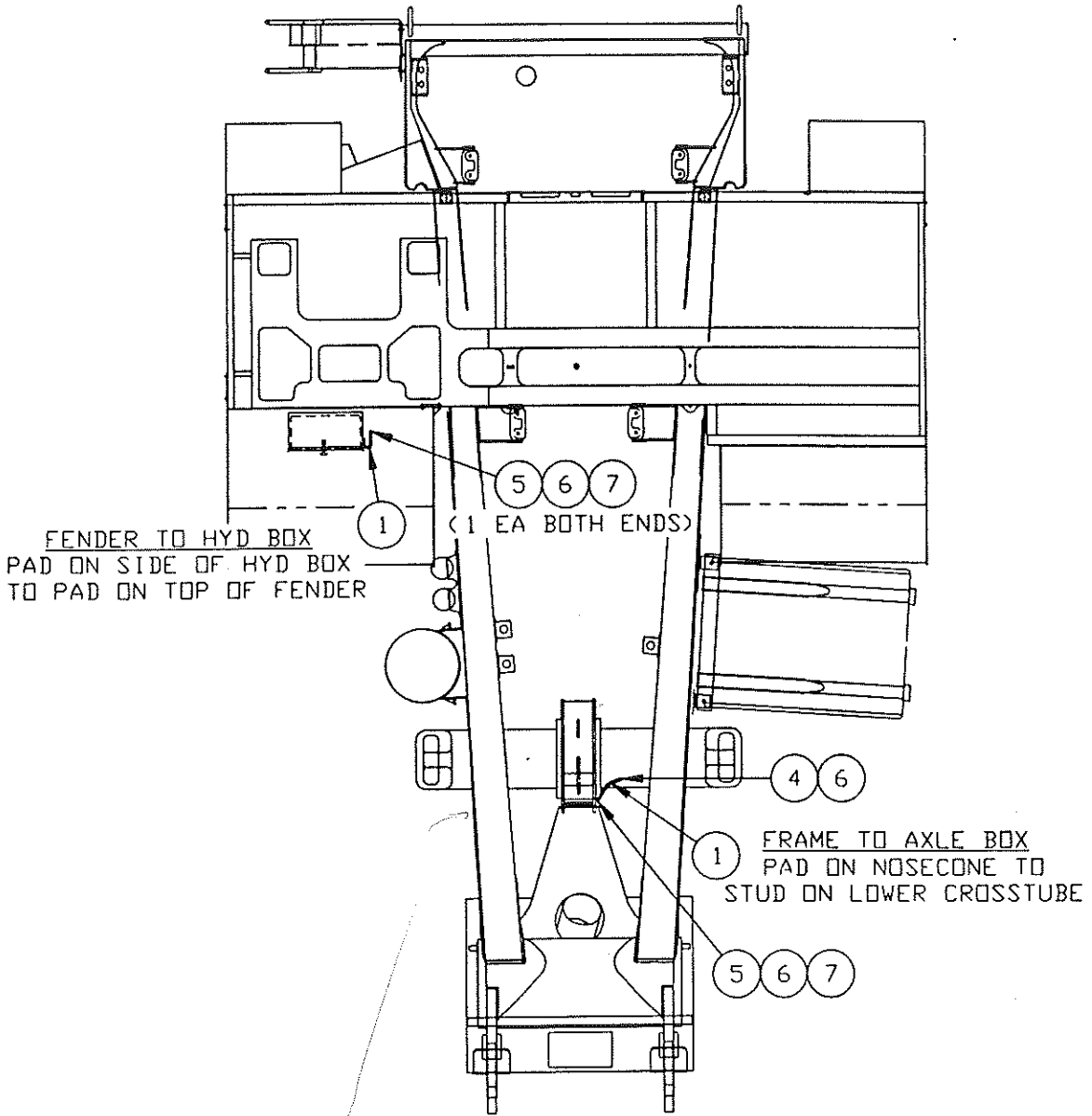
SLF

REL. CK.

ELLIS

91001

E.N. NO.



GROUND CABLE LOCATIONS

FENDER TO:
HYD BOX -- SHT 1

FRAME TO:
AXLE BOX -- SHT 1
RADIATOR -- SHT 2
S/STRUCTURE -- SHT 2
ALT/ENGINE -- SHT 2

S/STRUCTURE TO:
CAB -- SHT 3
GRID BOX -- SHT 3
CONTROL BOX -- SHT 3
FENDER (LT) -- SHT 3
FENDER (RT) -- SHT 3



GROUND CABLE
ASSEMBLY

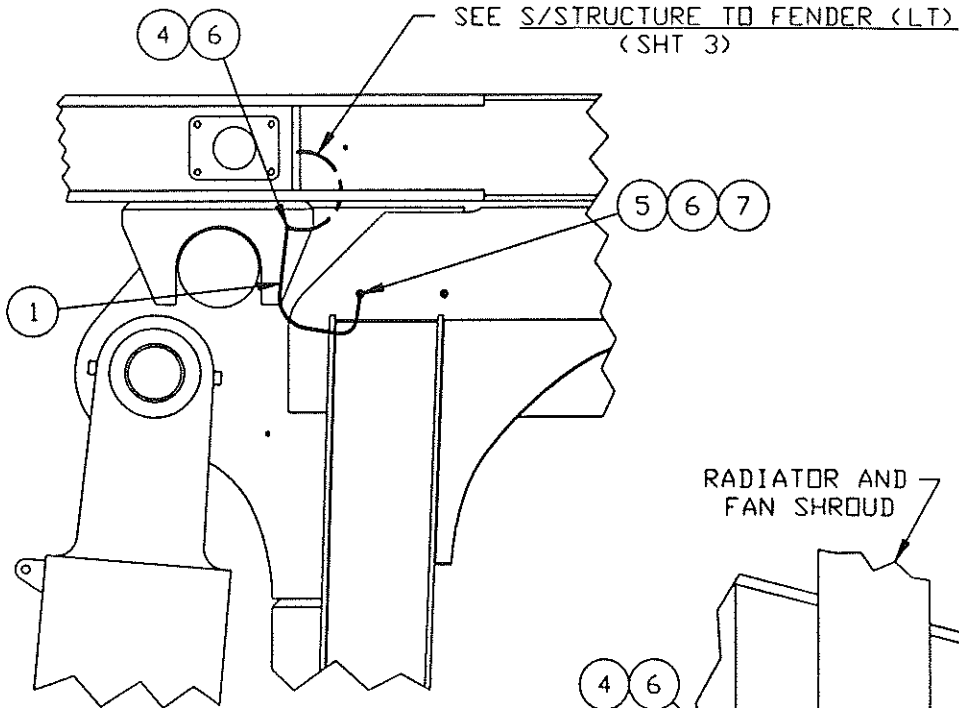
SHEET 1 OF 3

A85165

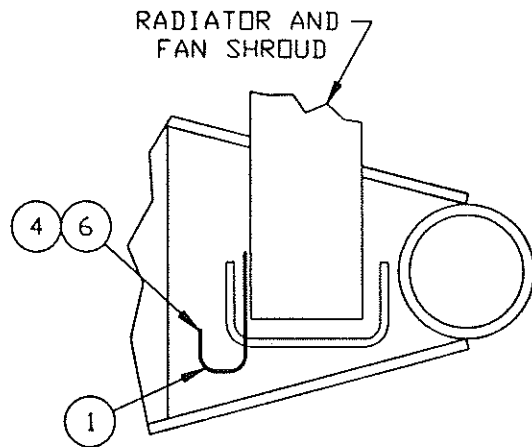
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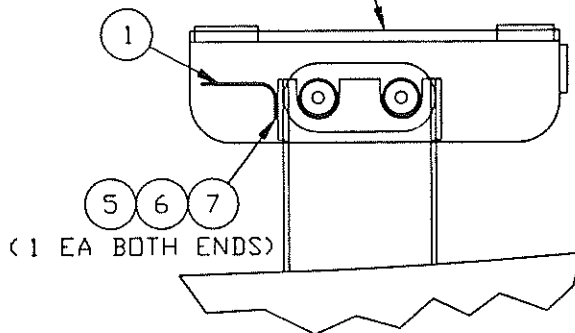


FRAME TO S/STRUCTURE
PAD ON UPPER CROSSTUBE
TO STUD ON LT RR SADDLE



FRAME TO RADIATOR
STUD ON LT FRAME EXTENSION TO
NEAREST BOLT ON FAN SHROUD

ENG/ALT
RT RR BRACKET



FRAME TO ALT/ENGINE
PAD ON RT RR ENGINE MOUNT TO
PAD ON BOTTOM ENG/ALT BRACKET

← FRONT OF TRUCK



GROUND CABLE
ASSEMBLY

SHEET 2 OF 3

A85165

91001

E.N. NO.

E.N. NO.

91001

REL. CK.

CHK. APP.

MASSIE

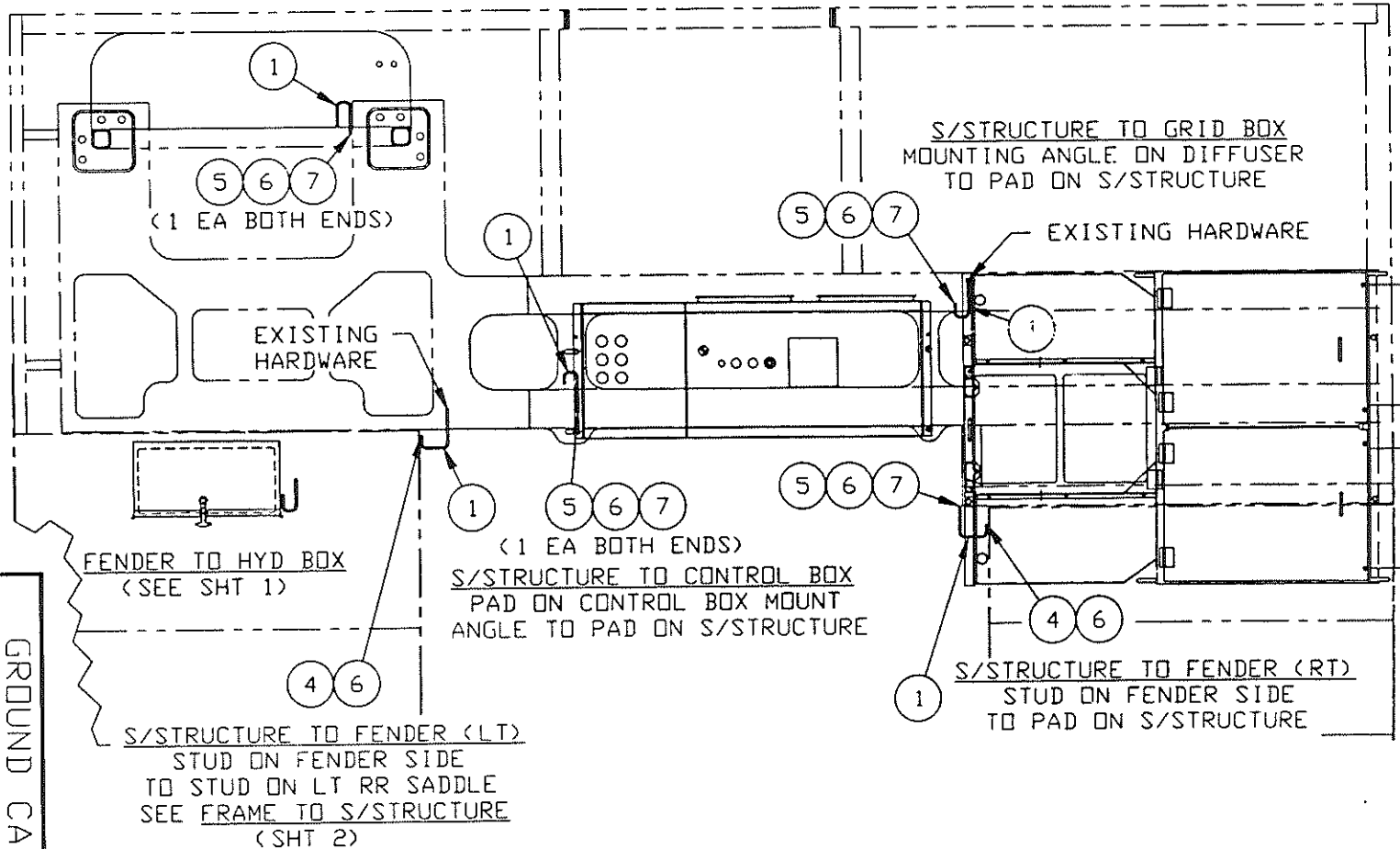
DR.

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ALVBT

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S/STRUCTURE TO CAB
PAD ON CAB FRONT CROSSMEMBER
TO PAD ON PLATFORM SIDE PLATE



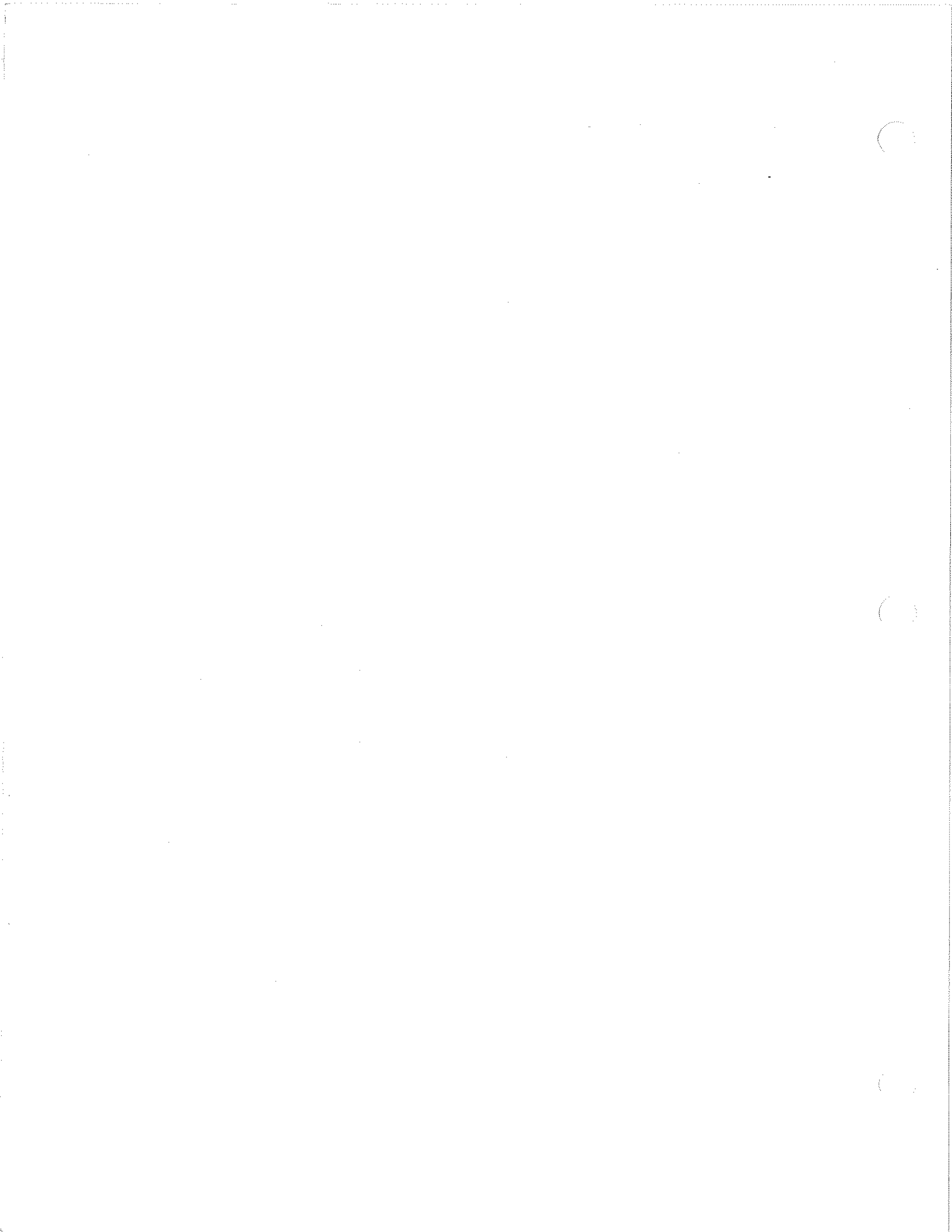
CAD



GROUND CABLE
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SHEET 3 OF 3

A85165



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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
1	3.00	71899B	CABLE, GROUND 325/24, LUG FOR 3/8' STUDS
1	6.00	71899B	CABLE, GROUND 325/24, LUG FOR 3/8' STUDS
1	1.00	71899B	CABLE, GROUND 325/24, LUG FOR 3/8' STUDS
4	2.00	17413	NUT-HEX, FLXLC 3/8-16
4	2.00	17413	NUT-HEX, FLXLC 3/8-16
4	1.00	17413	NUT-HEX, FLXLC 3/8-16
5	3.00	10011	CAPSCR, HX, 3/8-16NC X 3/4 GR 5
5	8.00	10011	CAPSCR, HX, 3/8-16NC X 3/4 GR 5
5	1.00	10011	CAPSCR, HX, 3/8-16NC X 3/4 GR 5
6	5.00	10164	WSHR, FL, 3/8 X 1.000 DD
6	10.00	10164	WSHR, FL, 3/8 X 1.000 DD
6	2.00	10164	WSHR, FL, 3/8 X 1.000 DD
7	3.00	10180	WSHR, LK, HELI, 3/8 X .683 DD
7	8.00	10180	WSHR, LK, HELI, 3/8 X .683 DD
7	1.00	10180	WSHR, LK, HELI, 3/8 X .683 DD
99	.00	A85165	DWG ONLY, GND CBL ASSY
99	.00	A85165	DWG ONLY, GND CBL ASSY
99	.00	A85165	DWG ONLY, GND CBL ASSY

DR. MASSIE

ENG. APP.
SLF

REL. CK.
ELLIS

91001

E.N. NO.



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GROUND CABLE
ASSEMBLY

SHEET 1 OF 1

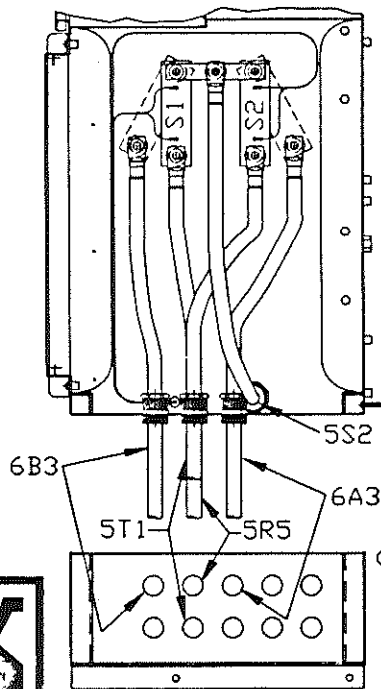
A85165A

E.N. NO.
90985

REL. OR
ELLIS
ENC. APP.
FAULKNER
MASSIE

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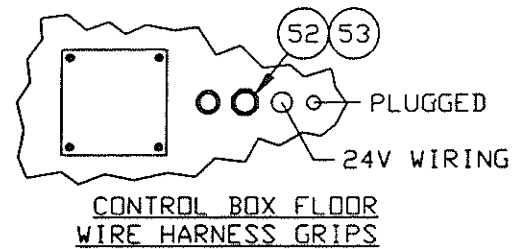
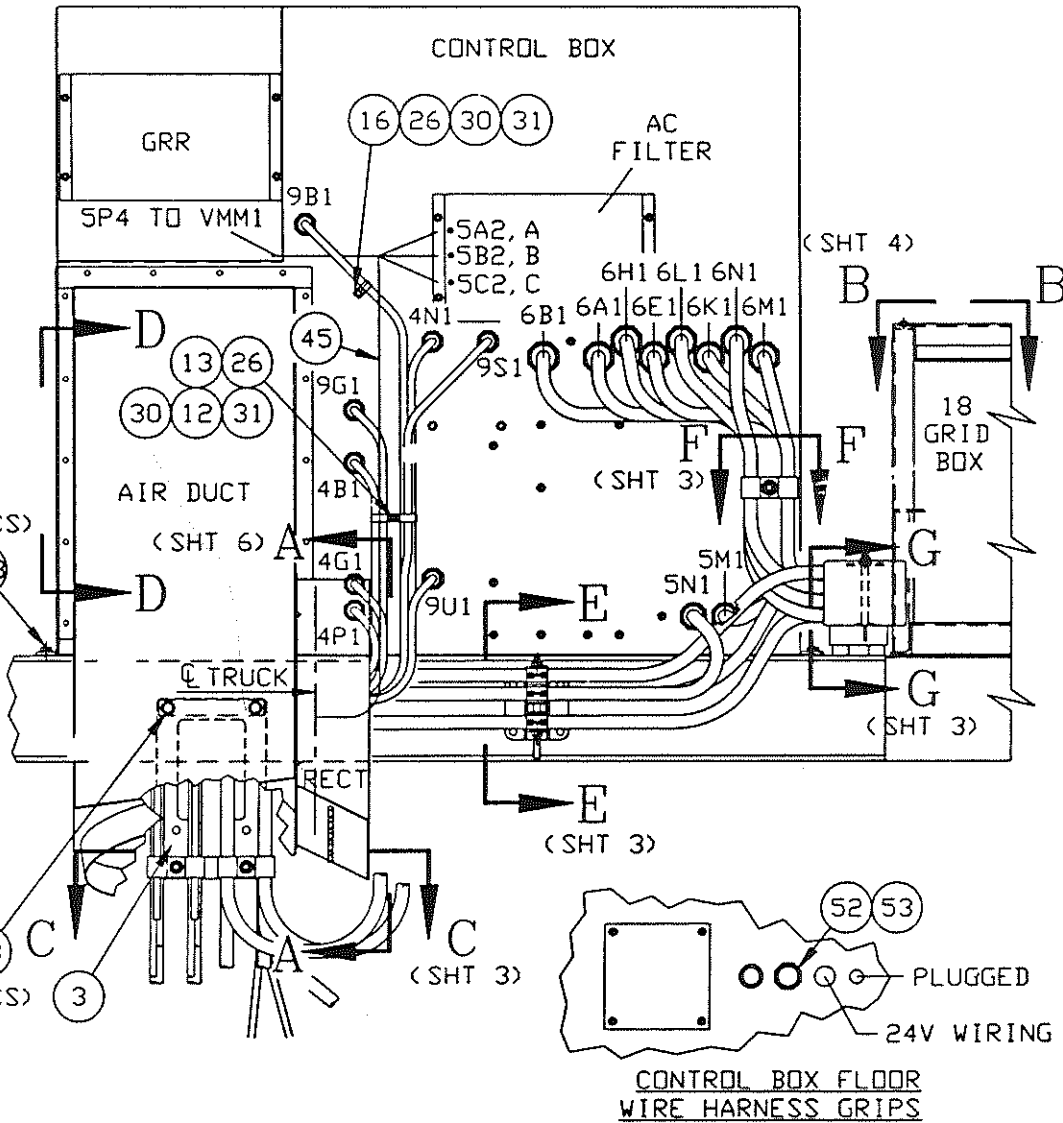


VIEW D-D

NOTE:
COVER UNUSED HOLES
WITH PLUGS FURNISHED
WITH CONTROL BOX.

(TYP 4 PLCS)
106 107 108
(2)

(TYP 2 PLCS)
37 92 93
3



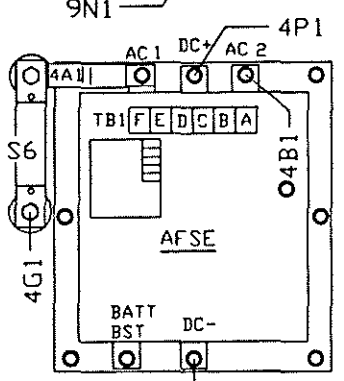
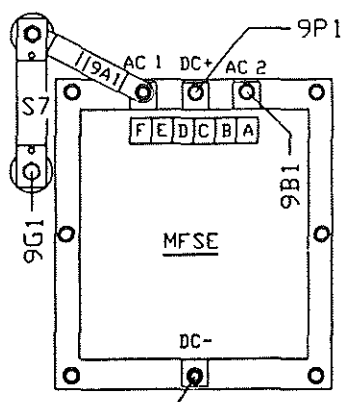
MT4400 3 STEP, 18 GRID
POWER & EXCITATION
ASSEMBLY - SSL III

SHEET 1 OF 8

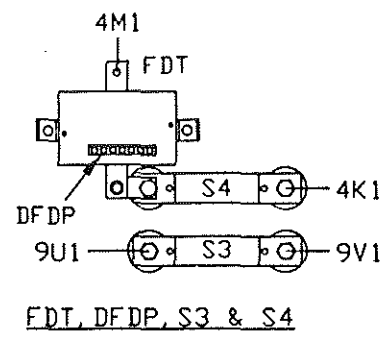
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A85167

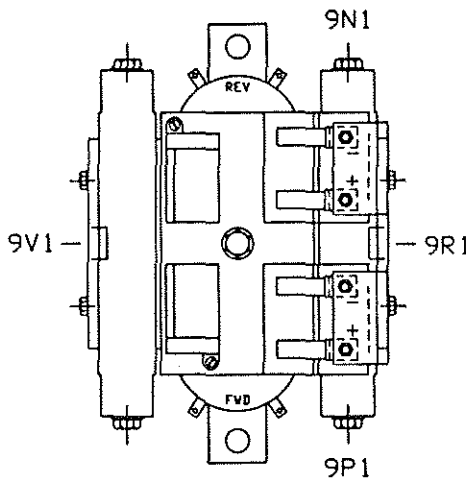
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AFSE & MFSE



FDT, DFDP, S3 & S4



REVERSER

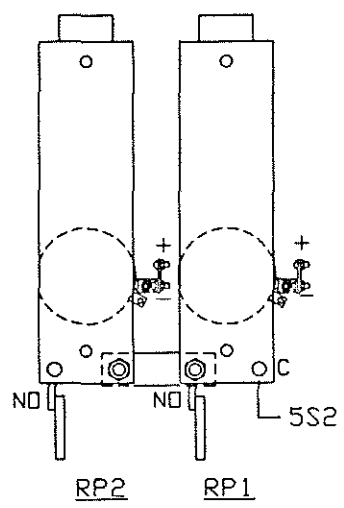
ITEM 44 CONTROL BOX CONNECTIONS

2CS01	TB1-A
7A1	TB1-B
7B1	TB1-C
SHD	
2CS02	TB1-D
7C1	TB1-E
7D1	TB1-F
SHD	
2CS03	TB1-G
7E1	TB1-H
7F1	TB1-I
SHD	TB1-J
2CS86	
89CF2	TB1-R
89CG2	TB1-S
SHD	TB1-T
2CS88	
89CH2	TB1-V
89CJ2	TB1-W
SHD	TB1-X
2CS96	
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SHD	TB2-T
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83B1	TB1L
80A126	TB2L

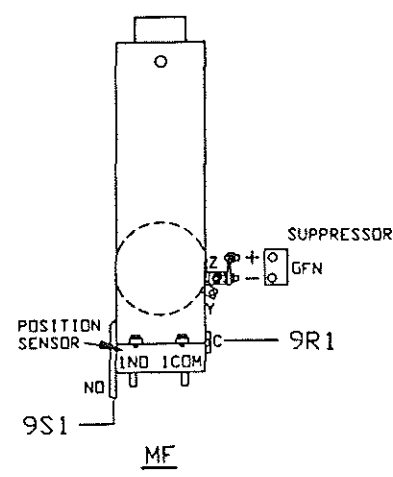
MASSIE

ENG. EXP.

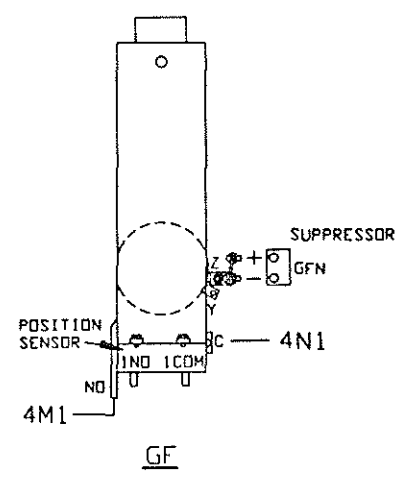
REL. CK.



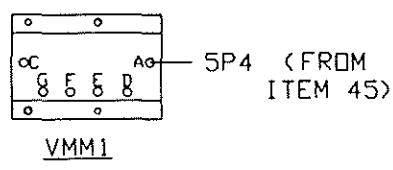
RP2 RP1



MF



GF



VMM1



POWER & EXCITATION ASSEMBLY - SSL III

SHEET 2 OF 8

A85167

90985
E.N. NO.

CONNECTIONS INTERNAL TO CONTROL BOX

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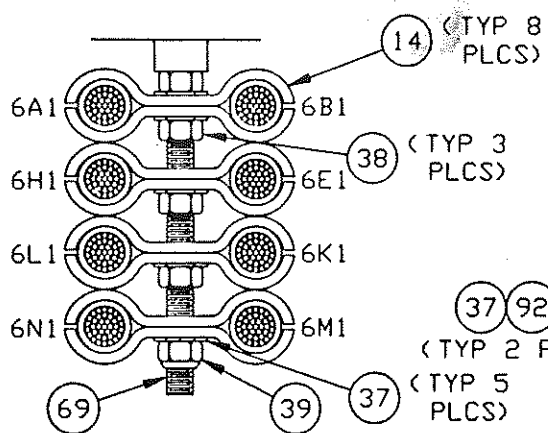
MASSIE

ENG. APP.

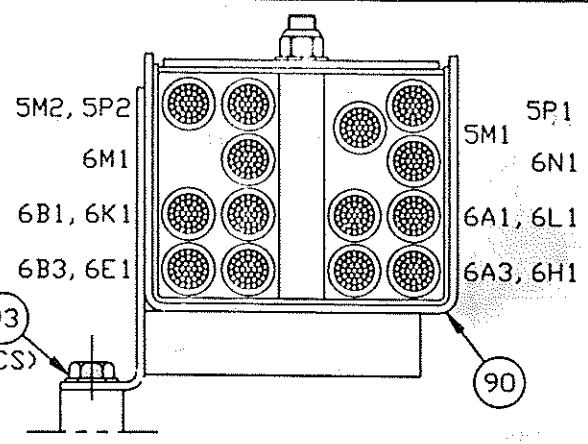
REL. CR.

90985

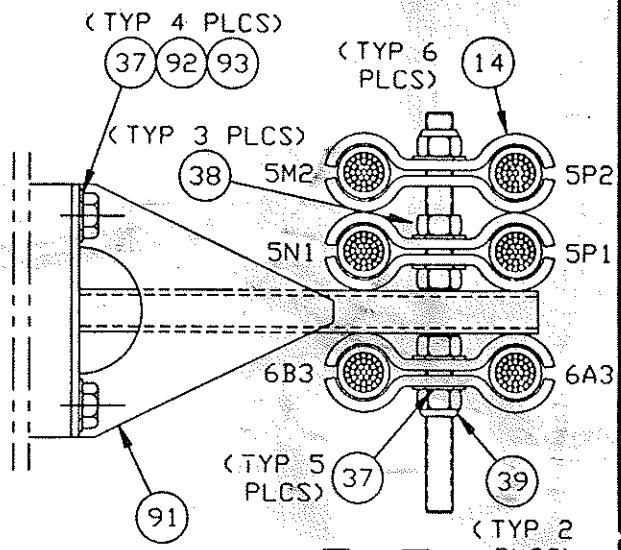
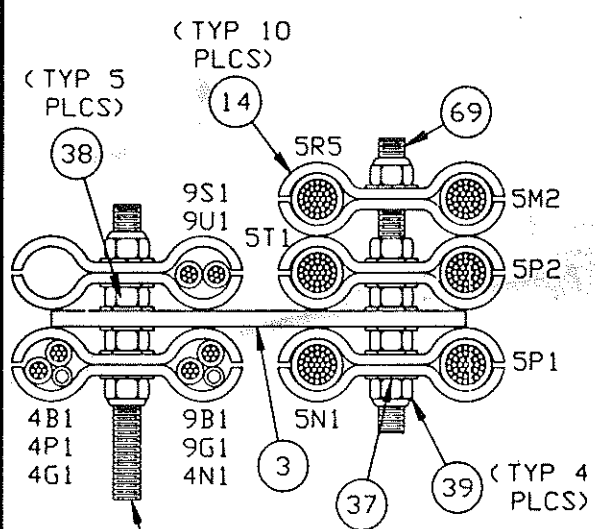
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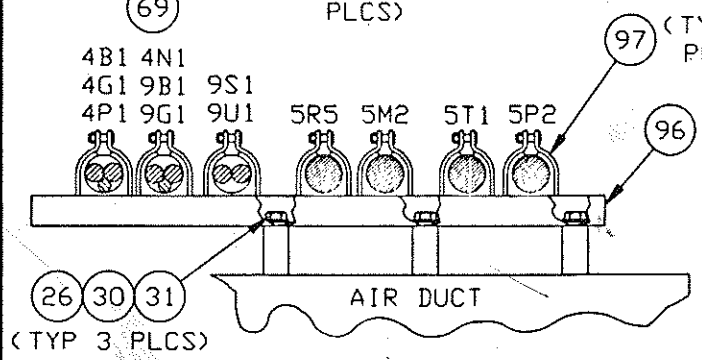
VIEW F-F



VIEW G-G



VIEW E-E



VIEW C-C



POWER & EXCITATION ASSEMBLY - SSL III

SHEET 3 OF 8

A85167

EN. NO. 90985

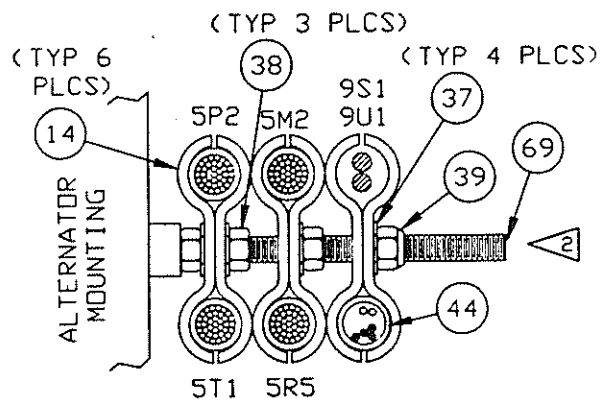
REL. CR. MASSIE
 ENG. APPR.

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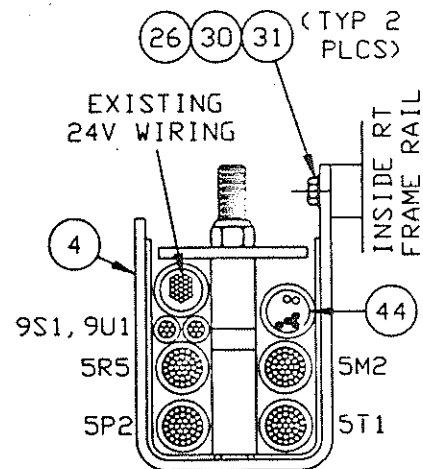
A85167

WIRE NO.	CABLE TRAY BOLT TO END OF CABLE LENGTH	CABLE CLAMP BOLT TO END OF CABLE LENGTH
9S1	XXX	XXX
9U1	XXX	XXX
5R5	XXX	XXX
5M2	XXX	XXX
5P2	XXX	XXX
5T1	XXX	XXX

XXX - SHOP TO SUPPLY LENGTHS DURING FIRST TRUCK BUILD.



VIEW CC-CC



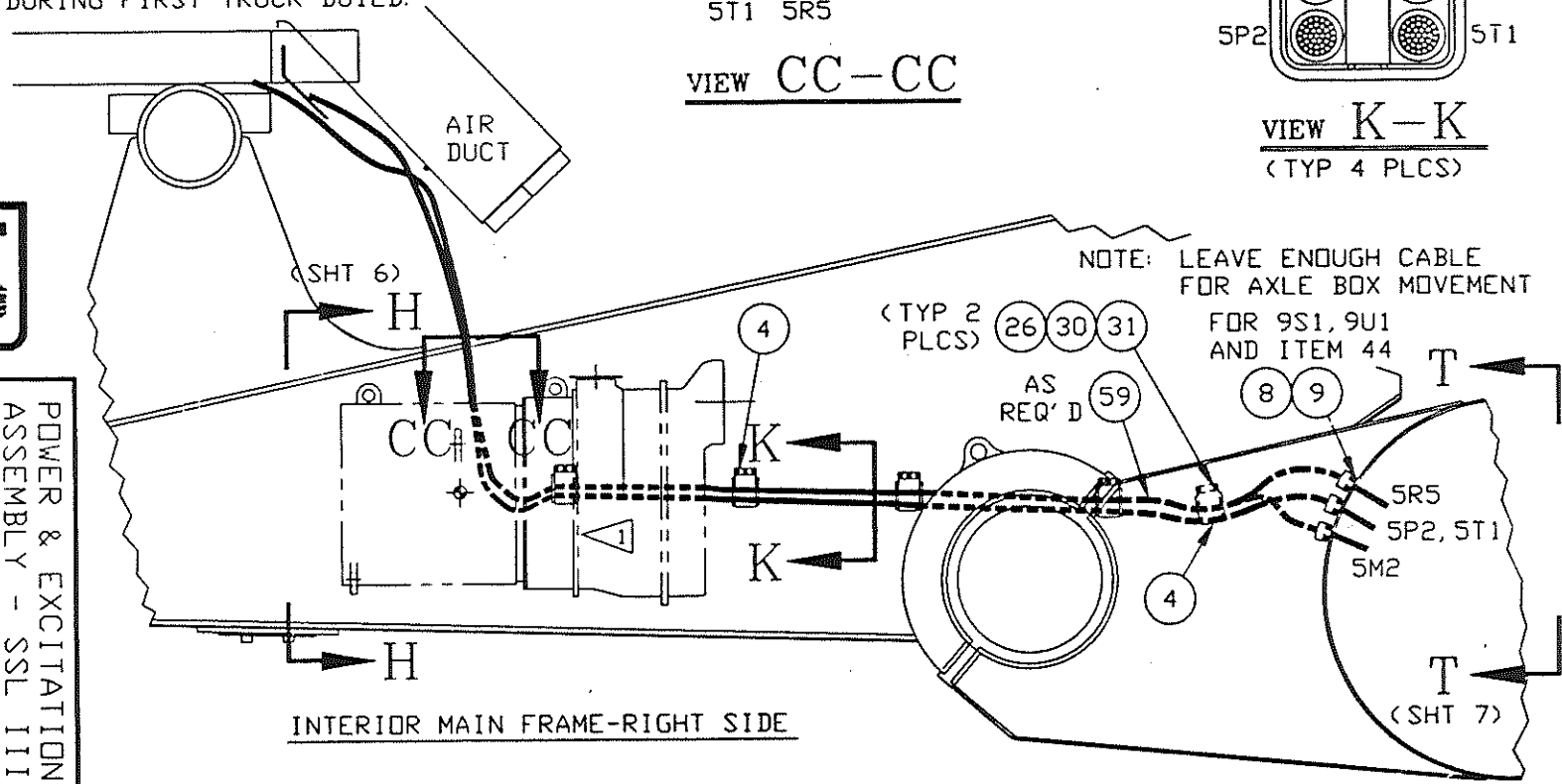
VIEW K-K
 (TYP 4 PLCS)



POWER & EXCITATION ASSEMBLY - SSL 111

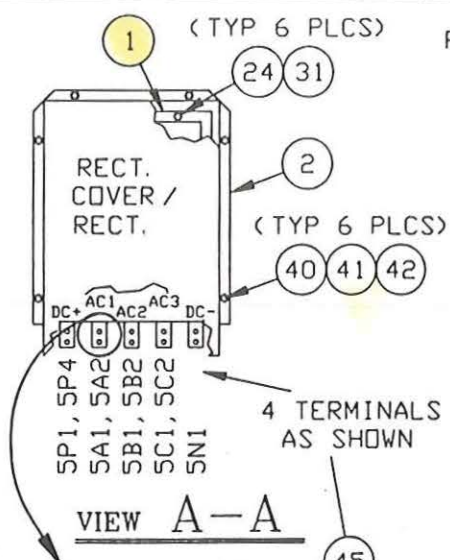
SHEET 5 OF 8

A85167

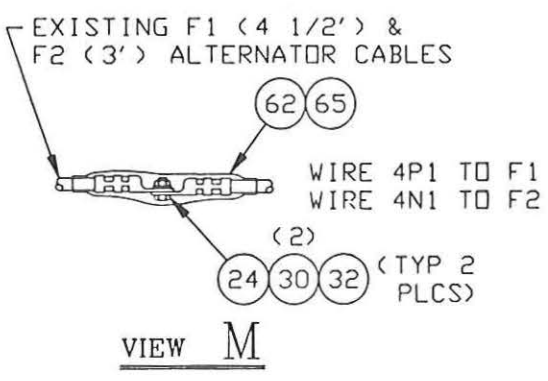
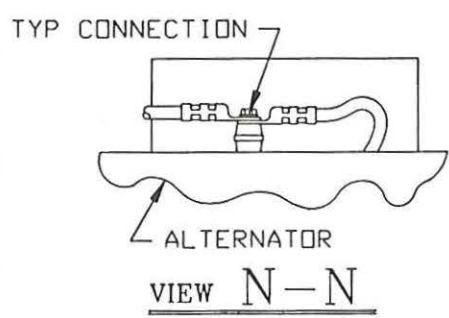
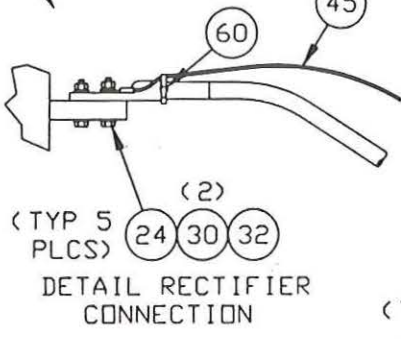


A85167

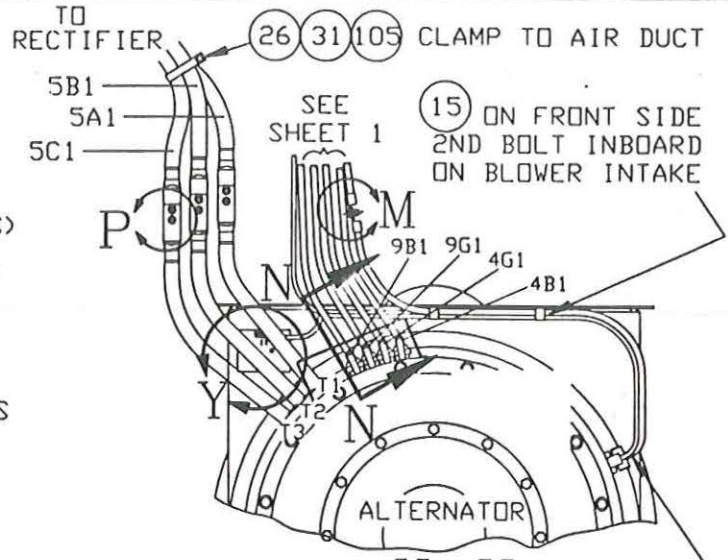
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VIEW A-A



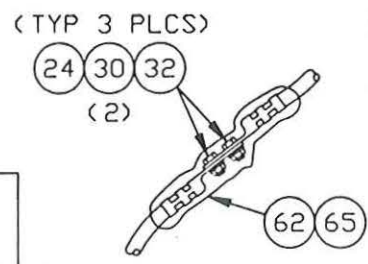
VIEW M



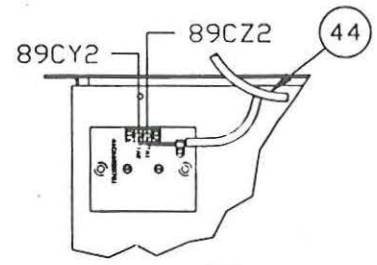
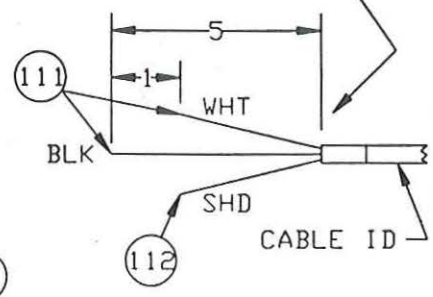
VIEW H-H

SPEED SENSOR CABLE

IDENTIFY AS #2CS03, COVER WITH SPLIT CONDUIT (ITEM 110), ROUTE TO CONTROL BOX WITH ITEM 44. PREPARE CABLE END FOR IB1 CONNECTION AS SHOWN



VIEW P



VIEW Y

THERMAL SENSOR BOX ON THE ALTERNATOR

POWER & EXCITATION ASSEMBLY - SSL III

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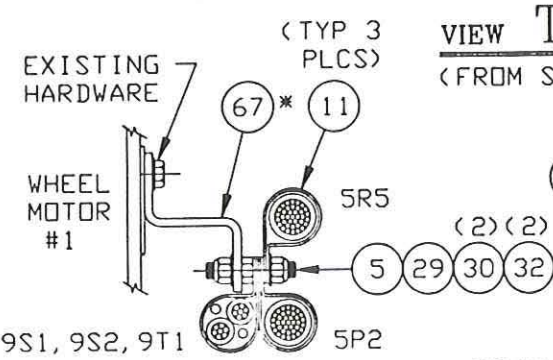
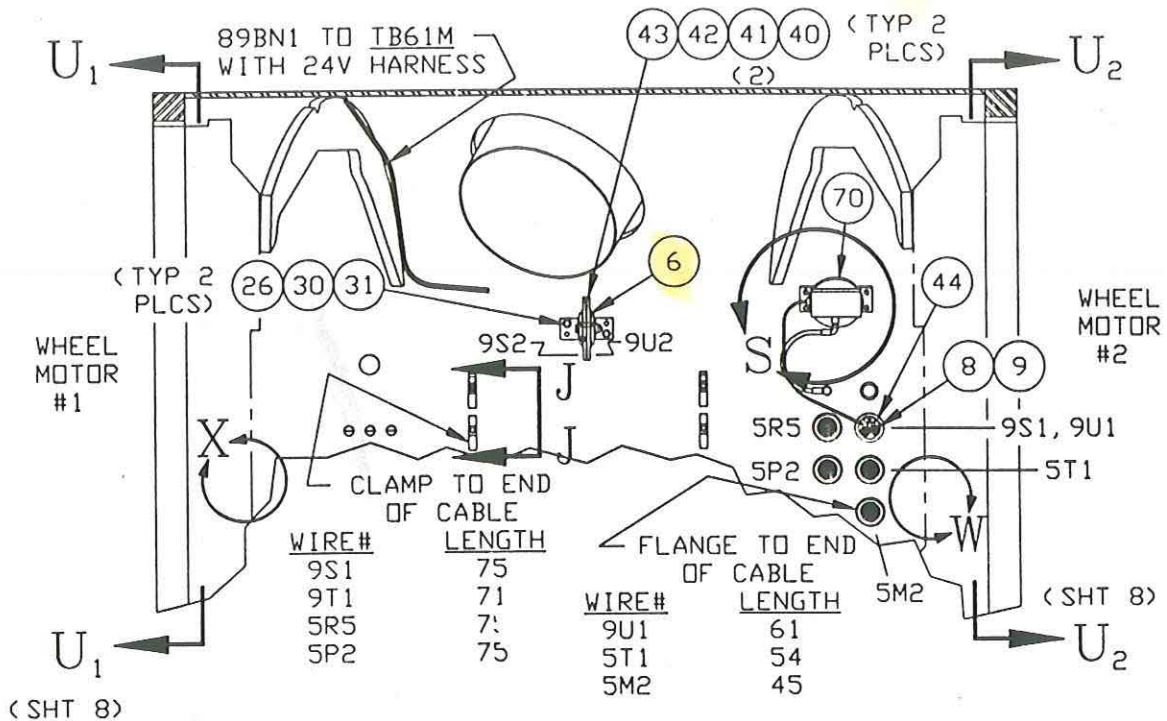
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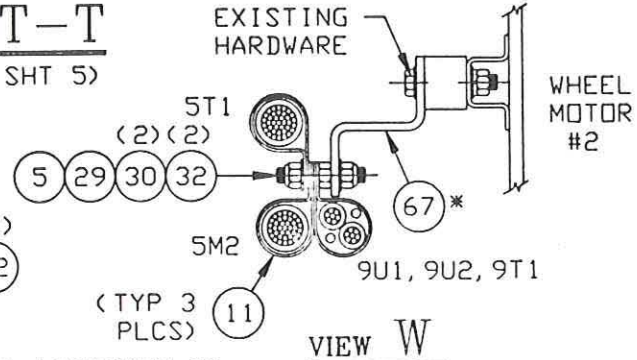
REL. CK.

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E.N. NO.



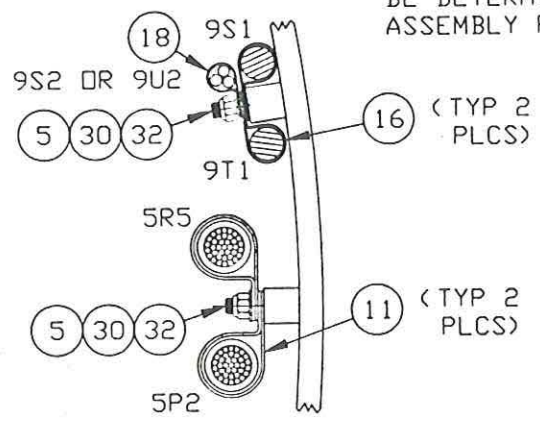
VIEW X

VIEW T-T
(FROM SHT 5)



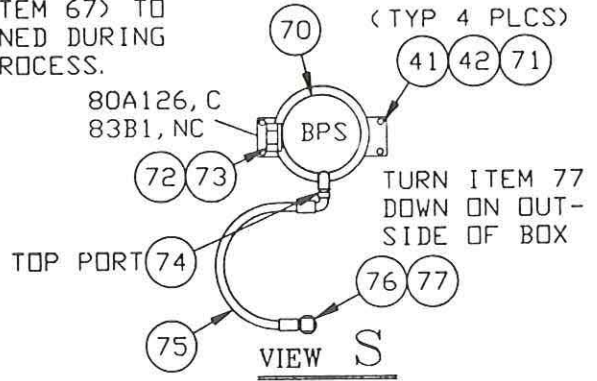
VIEW W

* = FINAL LOCATION OF BRACKET (ITEM 67) TO BE DETERMINED DURING ASSEMBLY PROCESS.



VIEW J-J

(TYP 2 PLCS EXCEPT WIRES 9S2 AND 9U2)



VIEW S



POWER & EXCITATION ASSEMBLY - SSL III

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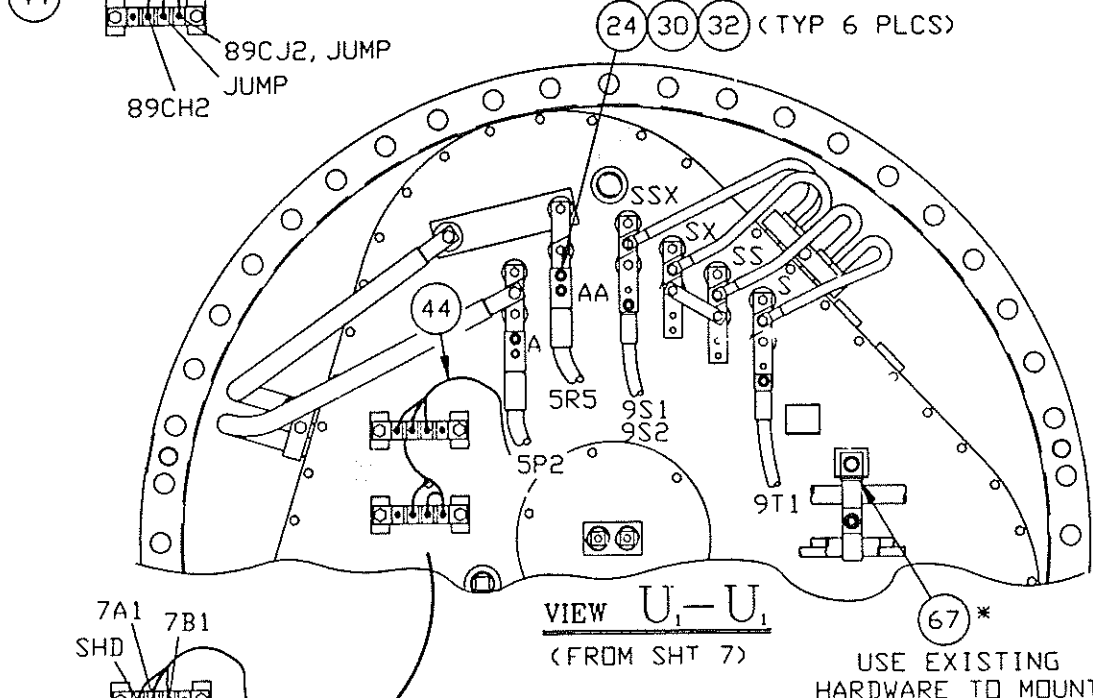
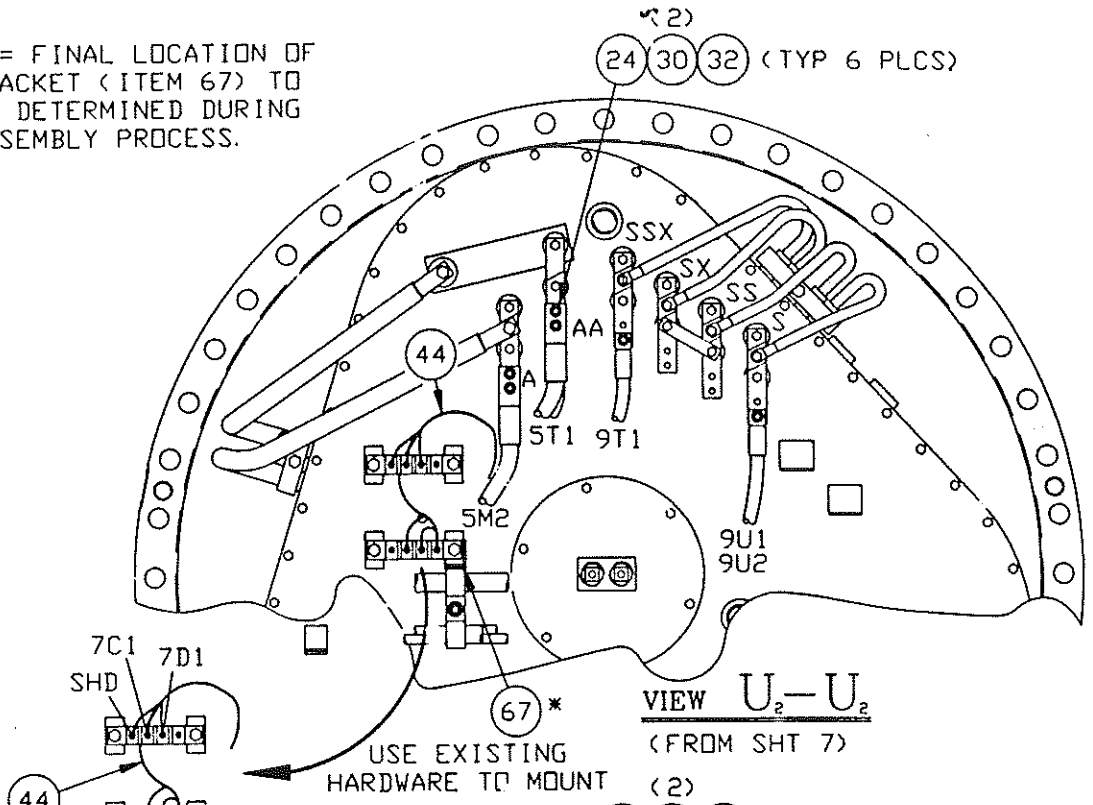
ERC APP.

REC. CK.

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* = FINAL LOCATION OF BRACKET (ITEM 67) TO BE DETERMINED DURING ASSEMBLY PROCESS.



POWER & EXCITATION ASSEMBLY - SSL III

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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
1	.00	* 52577 *	PANEL-RECTIFIER GE P/N 17FM528A1
2	1.00	79909B	COVER, RECTIFIER
3	1.00	67587G	BRACKET, CABLE CLAMP
4	1.00	79684B	CHANNEL CABLE ASSY
4	4.00	79684B	CHANNEL CABLE ASSY
5	6.00	79022B	ROD, ALL THRD, 3/8-16NC X 2' LG
6	.00	52894	RESISTOR , THYRITE GE P/N 41B567646G1
8	1.00	53957	GRIP, SEALING (1.250 - 1.375)
9	1.00	10704	BUSH, 2X1-1/2NPT MI 150PSI HEX
11	8.00	18367	CLAMP-CUSHION 1-1/4
11	10.00	18367	CLAMP-CUSHION 1-1/4
12	1.00	17143	CLAMP-CUSHION 1-9/16" ID
13	1.00	17145	CLAMP-CUSHION 2-1/4
14	6.00	73955A	CLAMP CABLE1325/24
14	24.00	73955A	CLAMP CABLE1325/24
15	2.00	18367	CLAMP-CUSHION 1-1/4
16	1.00	19083	CLAMP-CUSHION 3/4
16	4.00	19083	CLAMP-CUSHION 3/4
17	14.00	10031	CAPSCR, HX, 1/2-13NC X 2 GR 5
17	2.00	10031	CAPSCR, HX, 1/2-13NC X 2 GR 5
18	2.00	18902	CLAMP-CUSHION 1/2 1/2" ID
21	28.00	22465	WSHR, FL, 1/2
21	4.00	22465	WSHR, FL, 1/2
22	14.00	17412	NUT, HX, CRNLK, 1/2-13NC STD GR B
22	2.00	17412	NUT, HX, CRNLK, 1/2-13NC STD GR B
24	6.00	10015	CAPSCR, HX, 3/8-16NC X 1-3/4 GR 5
24	8.00	10015	CAPSCR, HX, 3/8-16NC X 1-3/4 GR 5
24	17.00	10015	CAPSCR, HX, 3/8-16NC X 1-3/4 GR 5
26	8.00	11103	CAPSCR, HX, 3/8-16NC X 7/8 GR 5
26	4.00	11103	CAPSCR, HX, 3/8-16NC X 7/8 GR 5
26	3.00	11103	CAPSCR, HX, 3/8-16NC X 7/8 GR 5
26	3.00	11103	CAPSCR, HX, 3/8-16NC X 7/8 GR 5

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*SEE SERVICE PARTS



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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
29	2.00	10136	NUT, HX, JAM, 3/8-16NC STL GR 2
30	3.00	10164	WSHR, FL, 3/8 X 1.000 OD
30	4.00	10164	WSHR, FL, 3/8 X 1.000 OD
30	32.00	10164	WSHR, FL, 3/8 X 1.000 OD
30	36.00	10164	WSHR, FL, 3/8 X 1.000 OD
30	16.00	10164	WSHR, FL, 3/8 X 1.000 OD
31	8.00	10180	WSHR, LK, HELI, 3/8 X .683 OD
31	4.00	10180	WSHR, LK, HELI, 3/8 X .683 OD
31	3.00	10180	WSHR, LK, HELI, 3/8 X .683 OD
31	9.00	10180	WSHR, LK, HELI, 3/8 X .683 OD
31	8.00	10180	WSHR, LK, HELI, 3/8 X .683 OD
32	8.00	17413	NUT-HEX, FLXLC 3/8-16
32	17.00	17413	NUT-HEX, FLXLC 3/8-16
32	8.00	17413	NUT-HEX, FLXLC 3/8-16
37	31.00	26205	WSHR, FL, 5/8 X 1.312 OD
37	4.00	26205	WSHR, FL, 5/8 X 1.312 OD
38	3.00	10138	NUT, HX, JAM, 5/8-11NC STL GR 2
38	11.00	10138	NUT, HX, JAM, 5/8-11NC STL GR 2
39	1.00	16403	NUT-HEX, FLXLC 5/8-11
39	7.00	16403	NUT-HEX, FLXLC 5/8-11
40	2.00	10002	CAPSCR, HX, 1/4-20NC X 1 GR 5
40	6.00	10002	CAPSCR, HX, 1/4-20NC X 1 GR 5
41	8.00	10162	WSHR, FL, 1/4 X 0.625 OD
41	6.00	10162	WSHR, FL, 1/4 X 0.625 OD
42	6.00	10178	WSHR, LK, HELI, 1/4 X .489 OD
42	6.00	10178	WSHR, LK, HELI, 1/4 X .489 OD
43	2.00	15675	NUT-HX, CRNLK 1/4-20NC STD GR B

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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
44	1.00	84253F	WIRE HARNESS ASSEMBLY
45	1.00	84253G	WIRE HARNESS ASSEMBLY
47	1.00	85114H	KIT, CABLE, PWR/EXC CONTROL BOX
48	1.00	85114K	KIT, CABLE, PWR/EXC SUPERSTRUCTURE
49	1.00	85114M	KIT, CABLE, PWR/EXC FRAME
50	1.00	85114N	KIT, CABLE, PWR/EXC AXLE BOX
52	1.00	53957	GRIP, SEALING (1.250 - 1.375)
53	1.00	16819	LOCKNUT CONDUIT
59	25.00	26887	TIE STRIP 1/16 TO 8 BUNDLE
59	20.00	26887	TIE STRIP 1/16 TO 8 BUNDLE
59	25.00	26887	TIE STRIP 1/16 TO 8 BUNDLE
60	20.00	18402	TIE, WRAP 3/16 TO 3-1/2 BUNDLE
60	50.00	18402	TIE, WRAP 3/16 TO 3-1/2 BUNDLE
60	30.00	18402	TIE, WRAP 3/16 TO 3-1/2 BUNDLE
62	65.00	21495	SLEEVE BULK HT SHRINK 1-1/2" TO 3/4"
65	5.00	29928	INSL PAD ADHESIVE
67	2.00	83374A	BRACKET, CABLE
69	1.00	63386B	STUD, ALL THD, 5/8-11NC X 9 LG
69	3.00	63386B	STUD, ALL THD, 5/8-11NC X 9 LG
70	.00	28512	SWITCH-PRESSURE GE P/N 41B512742P3
71	4.00	25902	CAPSCR, HX, 1/4-20NC X 3/8 GR 5
72	1.00	16888	GRIP 1/2 NPT
73	1.00	16889	LOCKNUT CONDUIT
74	1.00	17628	ADAPTER, STRAIGHT #4 JIC, MALE X 1/8 NPTF, MALE
75	1.00	900081	HOSE ASSY 211-04 13.5" LG W/319-04 FTGS
76	1.00	986205	ADAPTER, 90 DEG #4 JIC, MALE X 1/4 NPTF, MALE
77	1.00	24407	ELBOW-ST. 90DEG 1/4NPT
86	4.00	75617B	BUSBAR

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ITM	QTY PER ASSY	COMPONENT	DESCRIPTION
87	2.00	75953A	BAR BUS
88	4.00	79697B	BAR, TIN PLATED BUS
89	8.00	83471A	CLIP-BOLTING, GLASTIC
90	1.00	79684N	CHANNEL, CABLE ASSY
91	1.00	84405A	BRACKET, POWER CABLE
92	8.00	10043	CAPSCR, HX, 5/8-11NC X 1 GR 5
93	8.00	10183	WSHR, LK, HELI, 5/8 X 1.079 OD
96	1.00	81100B	BRACKET-CABLE
97	7.00	72108E	CLAMP-PIPE 1
101	8.00	10014	CAPSCR, HX, 3/8-16NC X 1-1/2 GR 5
102	8.00	10126	NUT, HX, 3/8-16NC STL GR 5
105	1.00	22322	CLAMP TUBE 2-7/8 ID
106	4.00	10047	CAPSCR, HX, 5/8-11NC X 2 GR 5
107	12.00	913240	WSHR, HRDND & GND-5/8 X 1.312 OD
108	4.00	16403	NUT-HEX, FLXLC 5/8-11
109	4.00	10045	CAPSCR, HX, 5/8-11NC X 1-1/2 GR 5
110	25.00	84024F	CONDUIT (DWG84024A-Z) I. D. .25 (6MM)
111	2.00	20707	TERM RING TONGUE #10 HOLE, 18 AWG
112	1.00	20641	TERMINAL-RING TONGUE #10 HOLE, 16-14 AWG
199	.00	A85167	DWG ONLY, ELEC, PWR/EXC

MT4400 - 3 STEP, 18 GRID,
787 WHEEL - CABLE KITS &
WIRE HARNESES.

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