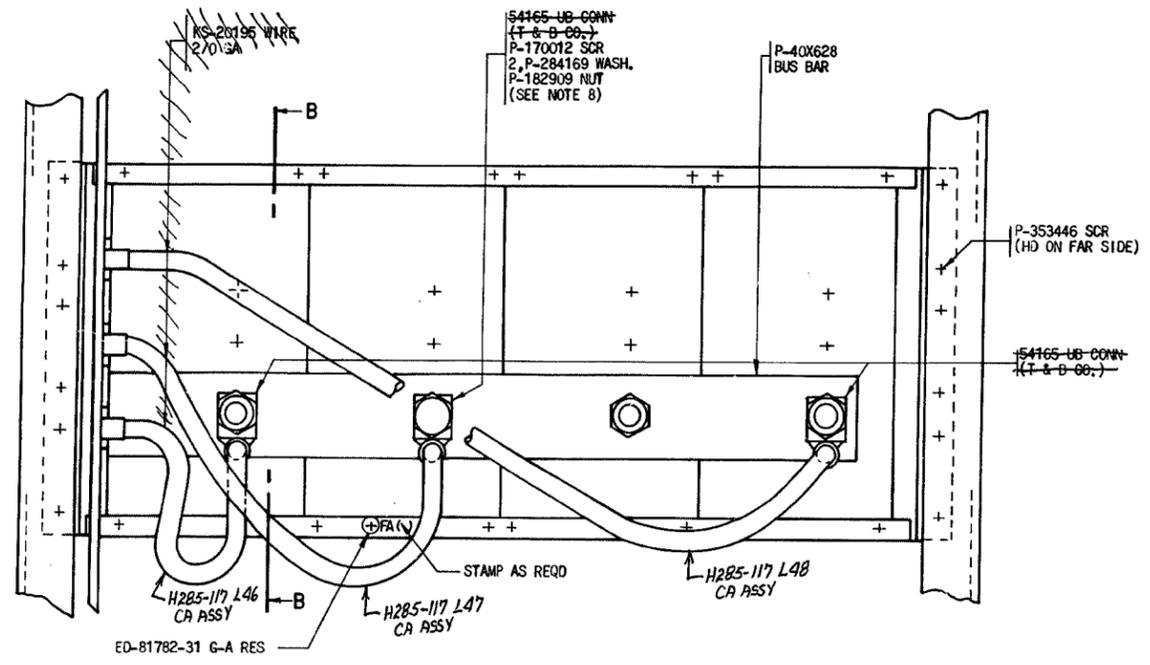
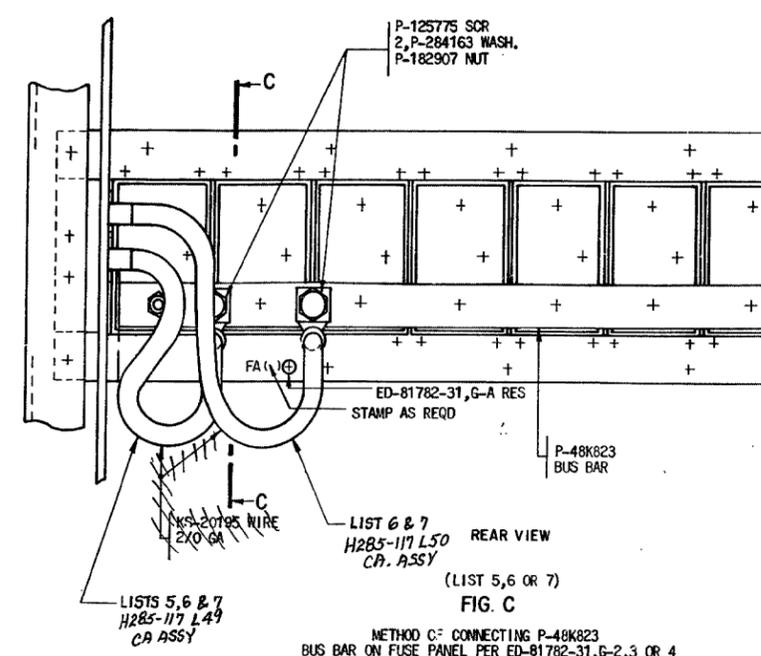
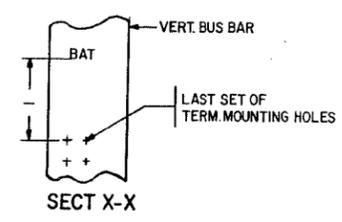


PARTIAL REAR VIEW
MODIFICATION OF ED-92465-70, G-1 FRWK
MODIFICATION CONSISTS OF ADDING 2
.216-24 AND 2, 1/4-20 TAPPED HOLES
FIG. A

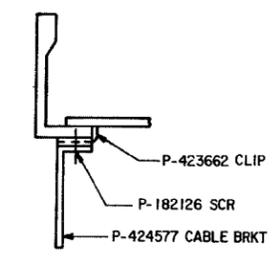


(LIST 9, OR 10)
FIG. B

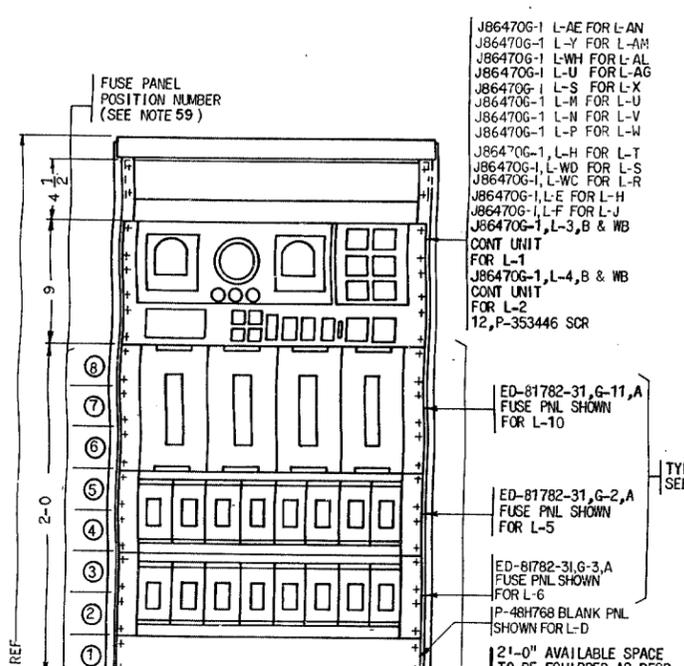
METHOD OF CONNECTING P-40X628
BUS BAR ON FUSE PANEL PER ED-81782-31, G-10 OR 11
TO VERTICAL BATTERY BUS BAR



METHOD C: CONNECTING P-48K823
BUS BAR ON FUSE PANEL PER ED-81782-31, G-2, 3 OR 4
TO VERTICAL BATTERY BUS BAR (G-2 SHOWN)
TYPICAL
FIG. C



TYPICAL METHOD OF MOUNTING
CABLE BRACKET TO FRAMEWORK
(LIST 1, 2, 3)
FIG. T



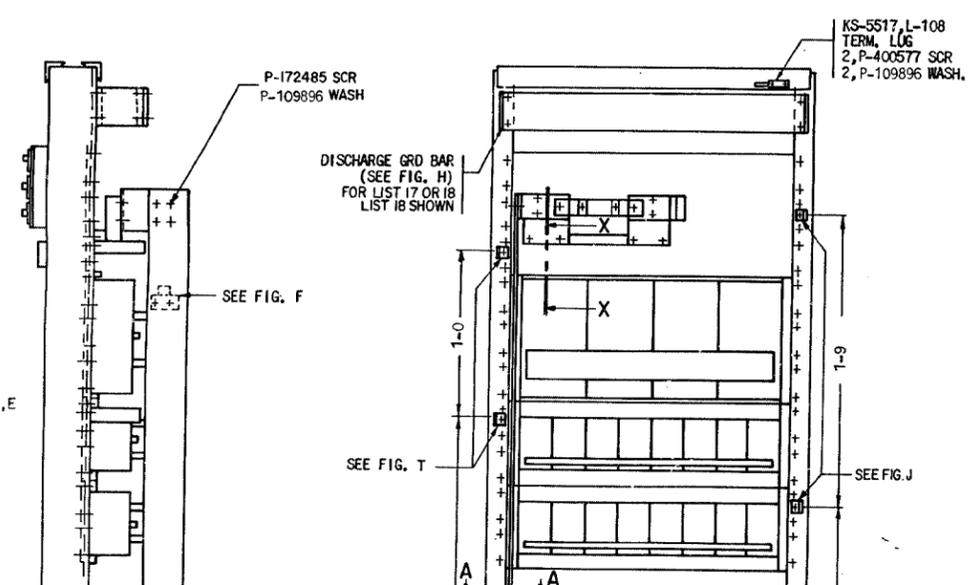
- J86470G-1 L-AE FOR L-AN
- J86470G-1 L-Y FOR L-AM
- J86470G-1 L-WH FOR L-AL
- J86470G-1 L-U FOR L-AG
- J86470G-1 L-S FOR L-X
- J86470G-1 L-M FOR L-U
- J86470G-1 L-N FOR L-V
- J86470G-1 L-P FOR L-W
- J86470G-1 L-H FOR L-T
- J86470G-1 L-WD FOR L-S
- J86470G-1 L-WC FOR L-R
- J86470G-1 L-E FOR L-H
- J86470G-1 L-F FOR L-J
- J86470G-1 L-3, B & WB
- CONT UNIT FOR L-1
- J86470G-1 L-4, B & WB
- CONT UNIT FOR L-2
- 12, P-353446 SCR

ED-81782-31, G-11, A
FUSE PNL SHOWN
FOR L-10

ED-81782-31, G-2, A
FUSE PNL SHOWN
FOR L-5

ED-81782-31, G-3, A
FUSE PNL SHOWN
FOR L-6

P-48H768 BLANK PNL
SHOWN FOR L-D

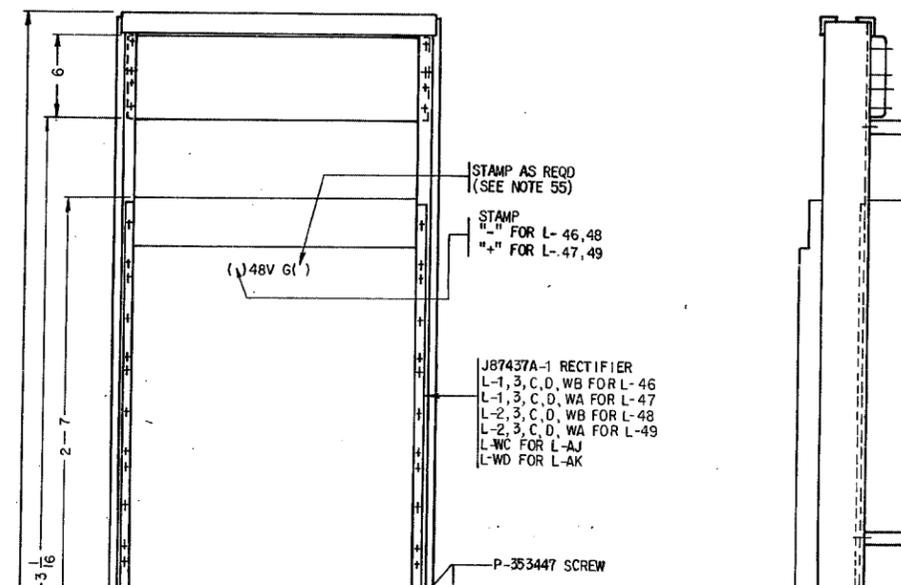


DISCHARGE GRD BAR
(SEE FIG. H)
FOR LIST 17 OR 18
LIST 18 SHOWN

SEE FIG. F

SEE FIG. T

SEE FIG. J

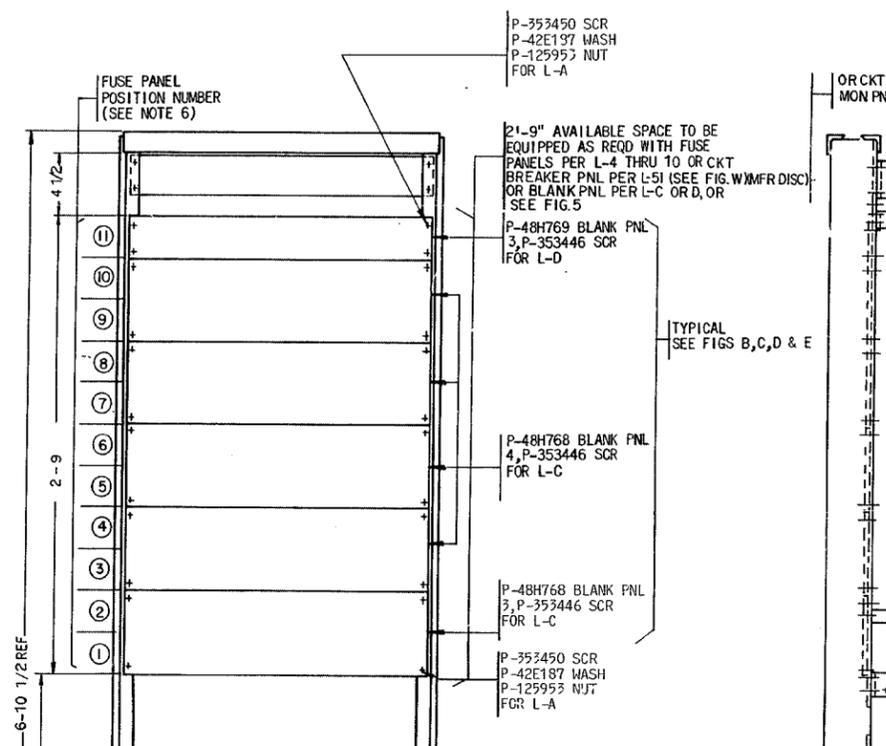
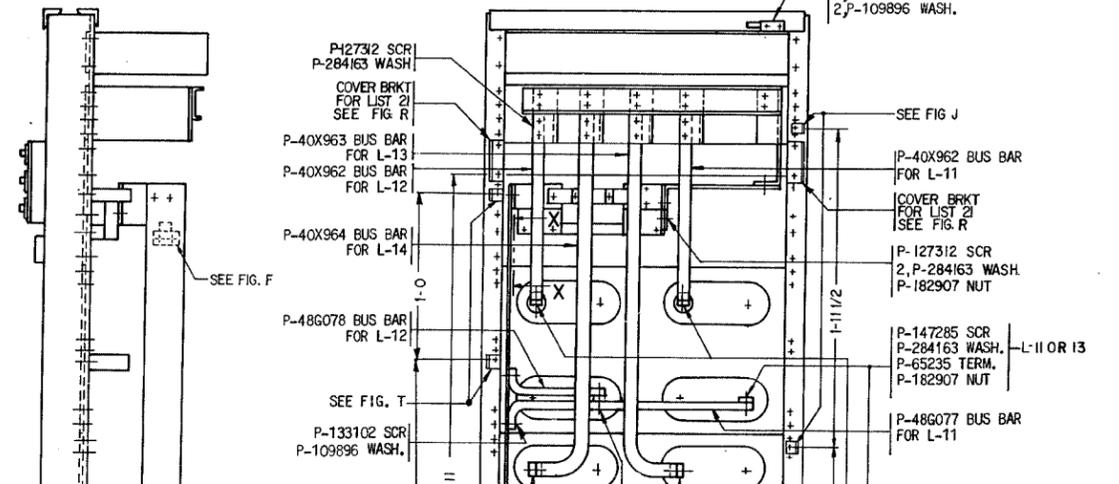
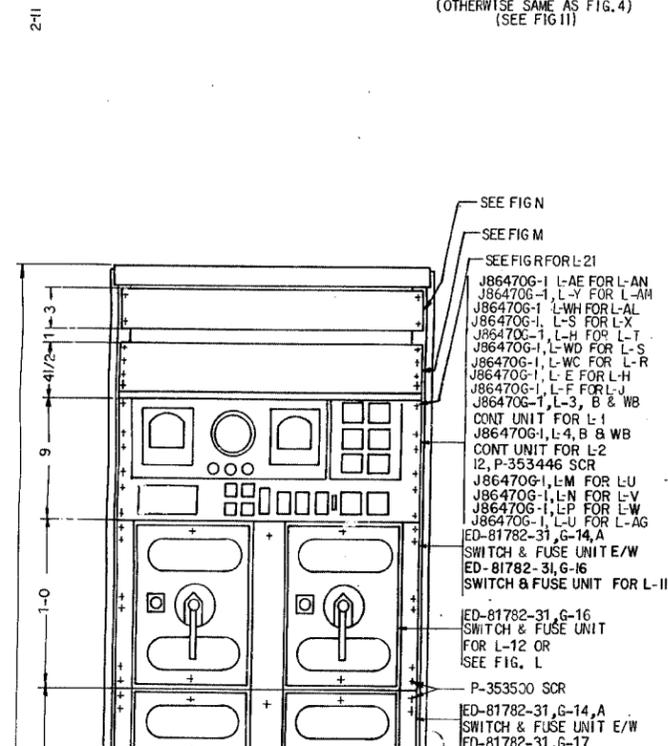
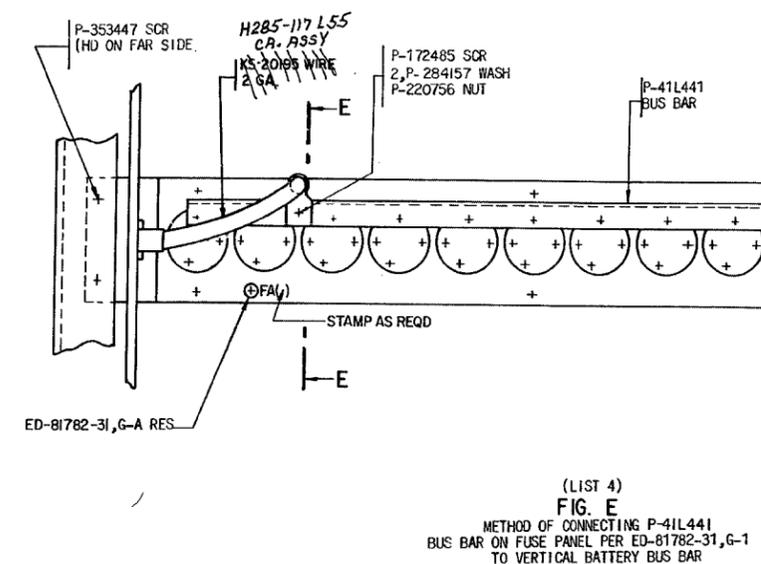
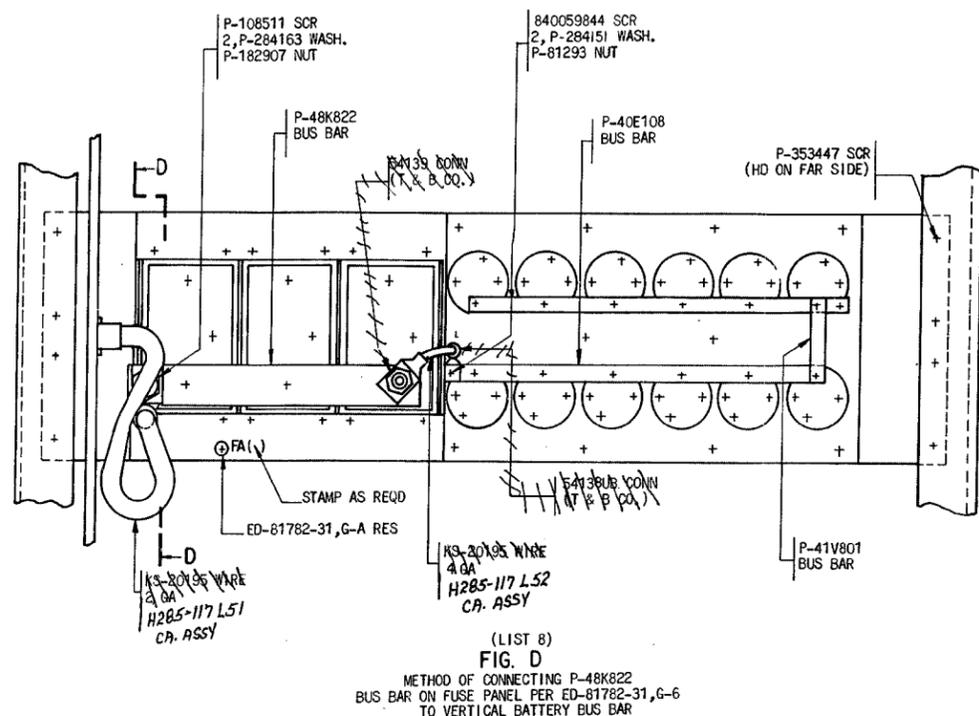
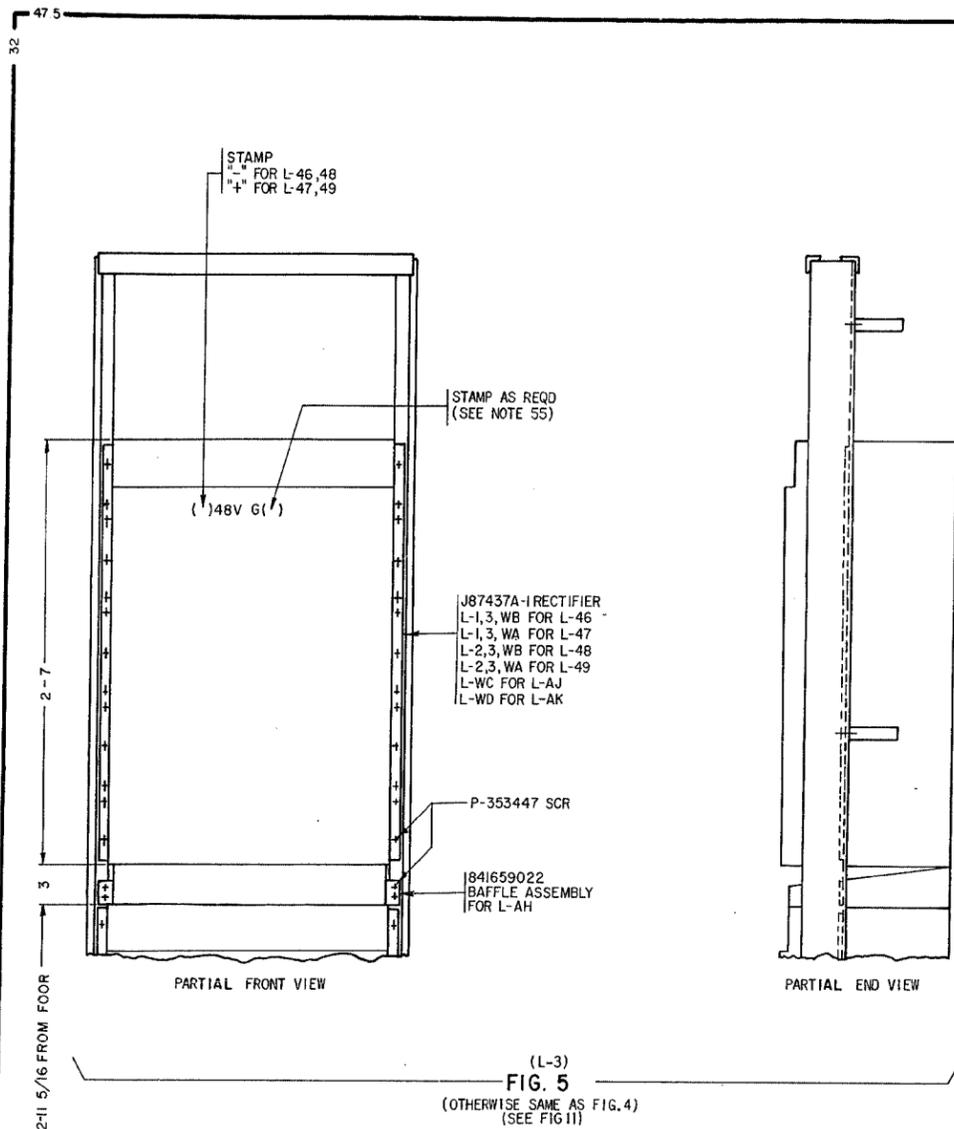


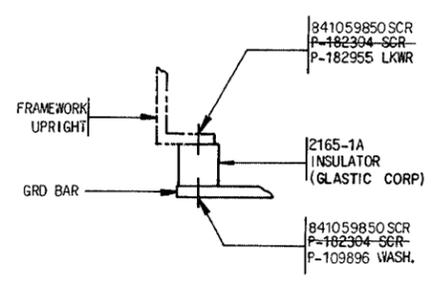
STAMP AS REQ
(SEE NOTE 55)

STAMP
"4" FOR L-46, 48
"4" FOR L-47, 49

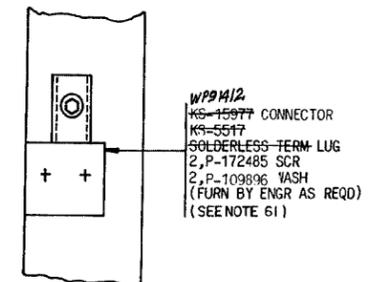
J87437A-1 RECTIFIER
L-1, 3, C, D, WB FOR L-46
L-1, 3, C, D, WA FOR L-47
L-2, 3, C, D, WB FOR L-48
L-2, 3, C, D, WA FOR L-49
L-WC FOR L-AJ
L-WD FOR L-AK

P-353447 SCREW



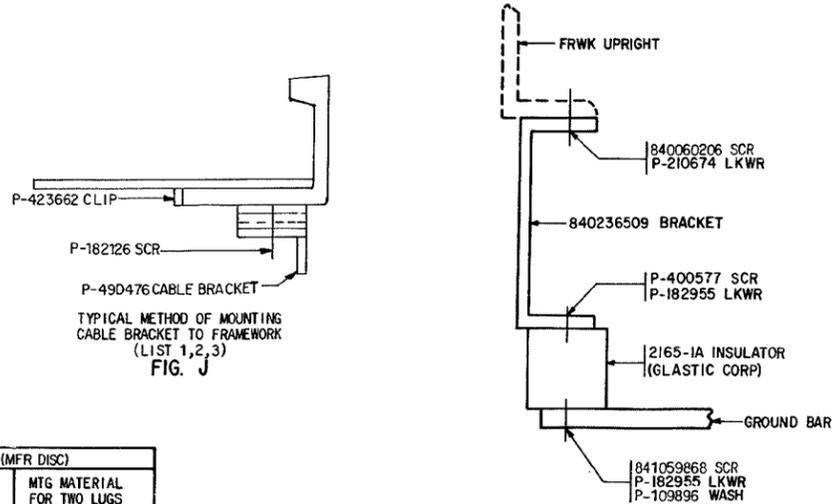


METHOD OF INSULATING DISCHARGE GRD BAR (LIST 17 OR 19 ONLY) (SEE FIG. Q & NOTE 7 FOR REDRILLING FRWK FOR INSULATORS) FIG. G



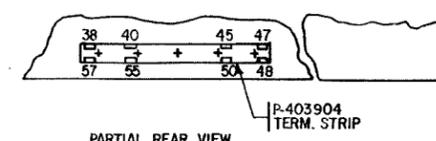
(TYPICAL) FIG. F

TABLE B (MFR DISC)			
LEAD SIZE	TERMINAL LUG	MTG MATERIAL FOR ONE LUG	MTG MATERIAL FOR TWO LUGS
1/0 - 4/0	KS-5517, L-5	2, P-108511 SCR 2, P-284163 WASH.	2, P-147285 SCR 4, P-284163 WASH. 2, P-182907 NUT
250,000-300,000	KS-5517, L-7		
350,000-500,000	KS-5517, L-9		
600,000-700,000	KS-5517, L-10	2, P-125775 SCR 2, P-284163 WASH.	2, P-146273 SCR 4, P-284163 WASH. 2, P-182907 NUT
750,000-800,000	KS-5517, L-11	2, P-127312 SCR 2, P-284163 WASH.	

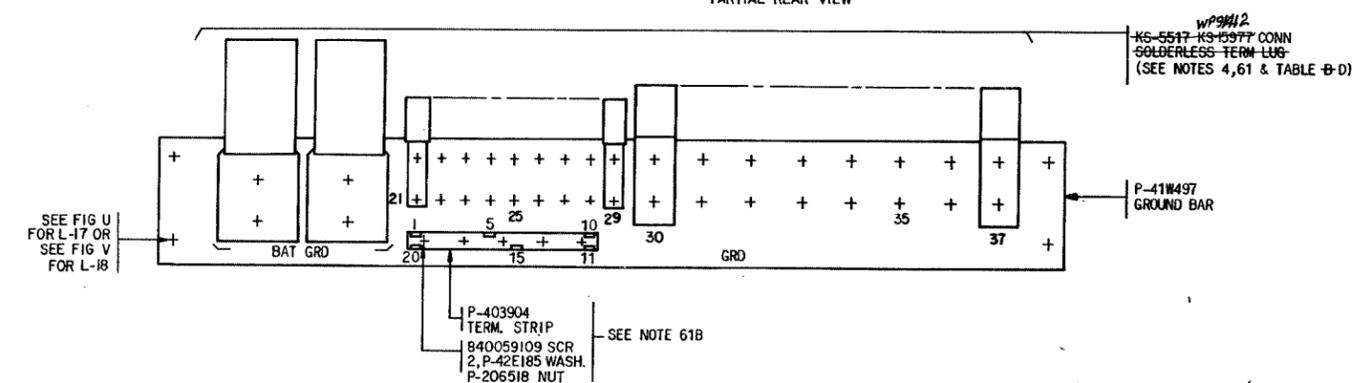


TYPICAL METHOD OF MOUNTING CABLE BRACKET TO FRAMEWORK (LIST 1, 2, 3) FIG. J

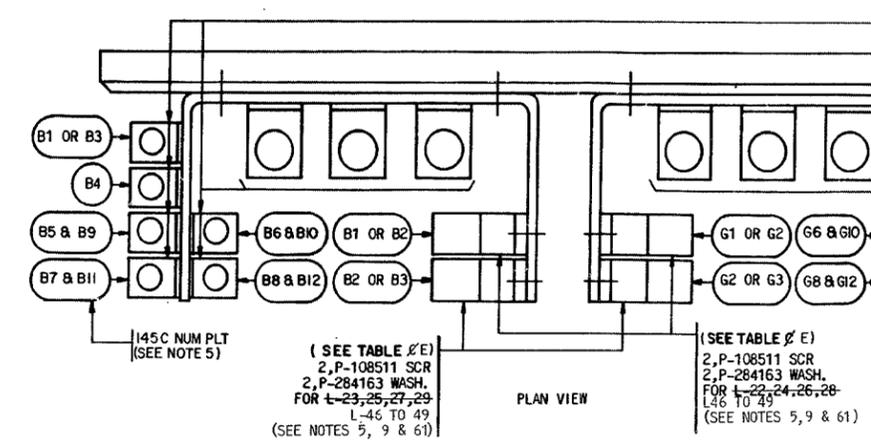
METHOD OF INSULATING DISCHARGE GRD BAR (LIST 17) FIG. U



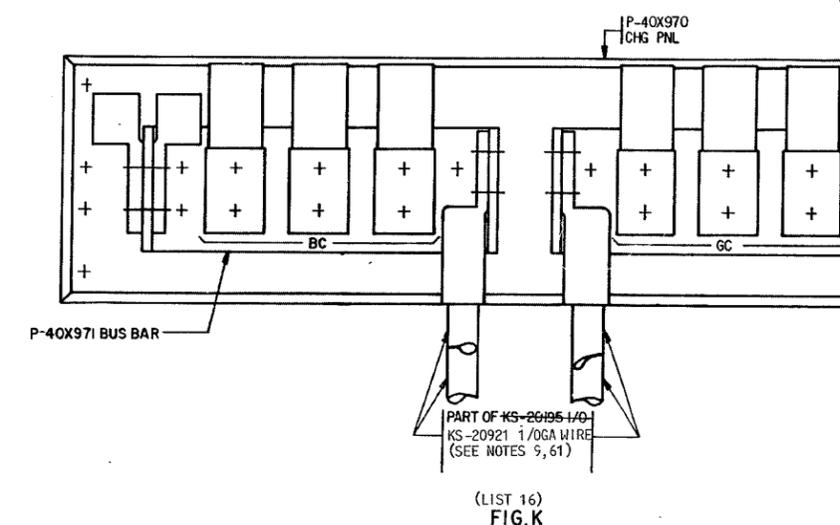
PARTIAL REAR VIEW



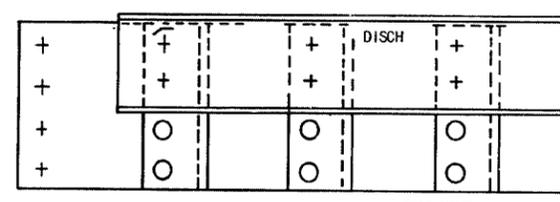
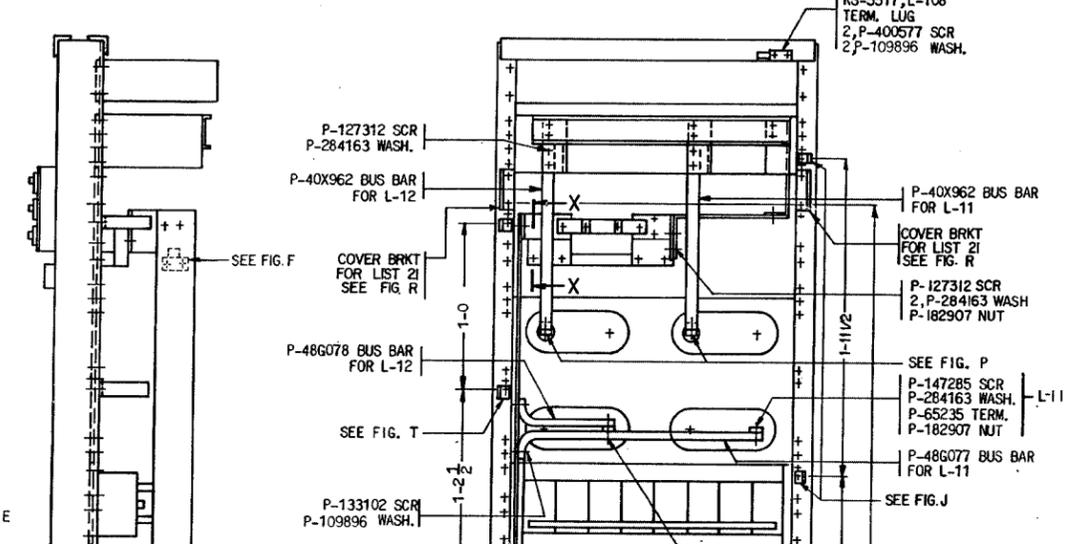
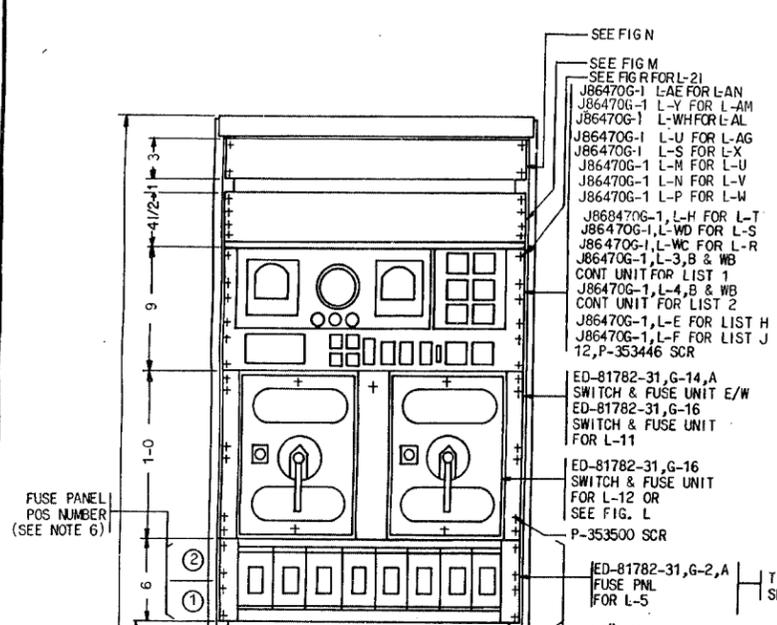
FRONT VIEW (LISTS 17 OR 18) FIG. H



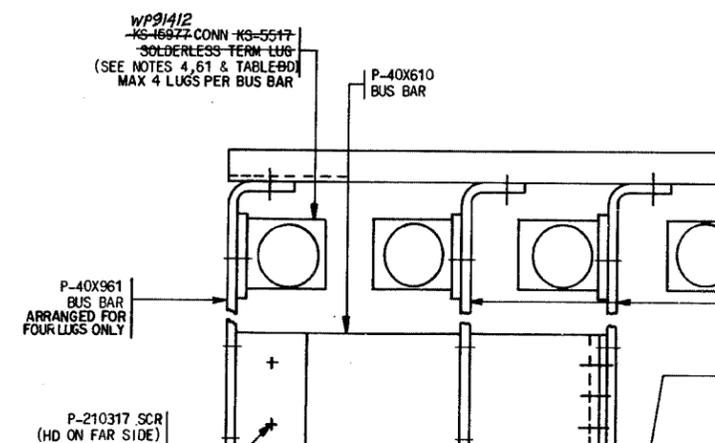
PLAN VIEW

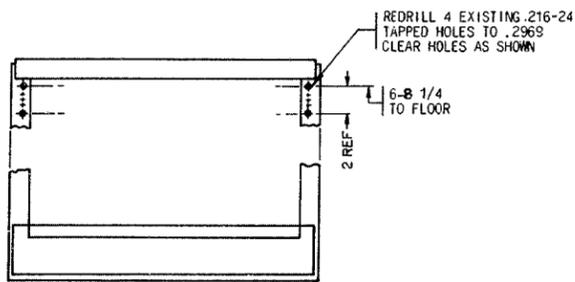


(LIST 16) FIG. K

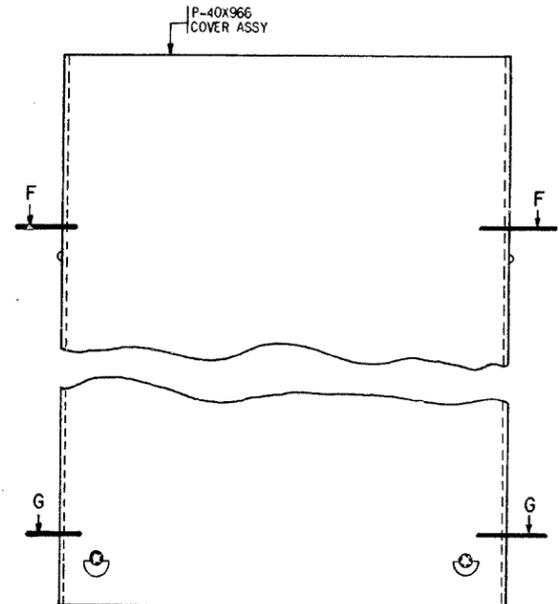


REAR VIEW

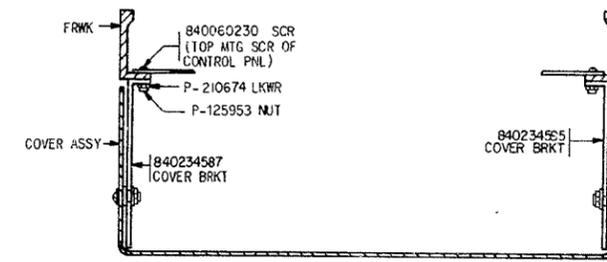




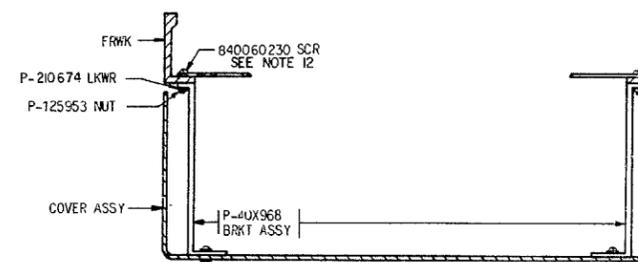
PARTIAL REAR VIEW
MODIFICATION OF ED-92465-70, G-1 FRWK
MODIFICATION CONSISTS OF ADDING 4,
.2969 CLEAR HOLES.
(LISTS 47-OR-19 ONLY)
FIG. Q



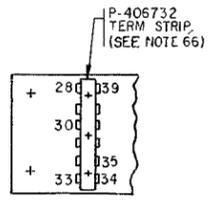
REAR COVER
TYPICAL METHOD OF MOUNTING
REAR COVER (SEE NOTE 60)
FIG. R
(LIST 21)



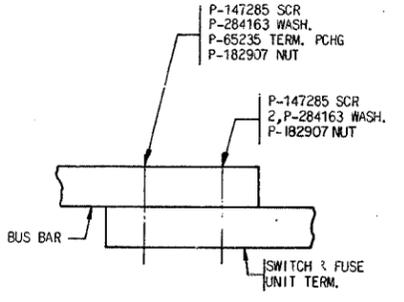
SECT F-F



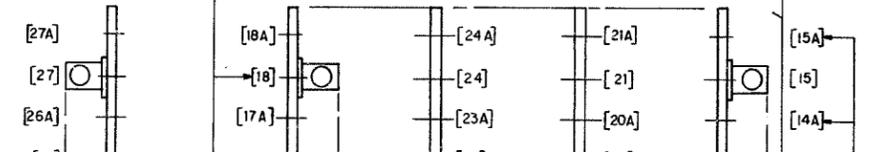
SECT G-G



PARTIAL REAR VIEW

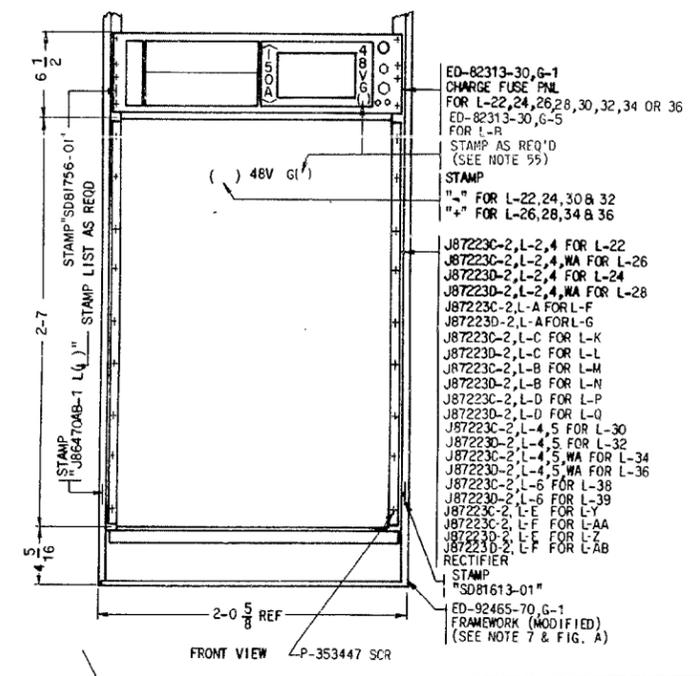
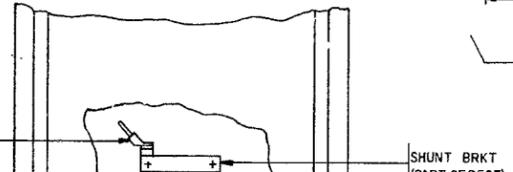


(TYPICAL)
FIG. P

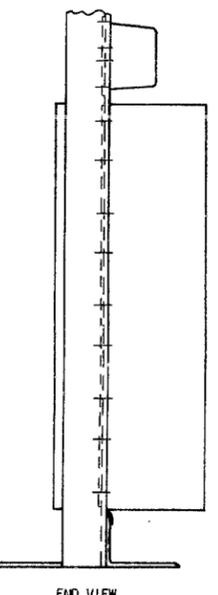


KS-15977 CONN
KS-5587
SOLDERLESS TERM LUG
SEE NOTES 4, 6 & TABLE B-D

KS-15977-L-318-6000
54110 CONN
(T & B CO)
SEE TABLE C



FRONT VIEW



END VIEW

FIG. 7
(MFR DISC)
OTHERWISE SAME AS
FIG. 1, 4 OR 6

AB	AC	AD	AE	AF	AG	COL
LIST	QTY PER LIST	CODE	DESCRIPTION	NOTE	LINE	
1,2,3	1	ED-92465-70	G-1 FRAMEWORK (MODIFIED)	8	7	401
9	1	ED-81782-31	G-10 FUSE PANEL E/W FIG. B			405
10	1		G-11 FUSE PANEL			
9,10	1		G-A RESISTOR (MTD IN POS 2)			
9,10	1	P-40X628	BUS BAR			410
9,10	6FT	KS-20195	2/0 GAUGE WIRE			
9,10	3		5416SUB CONNECTOR			
9,10	3		5426SUB CONNECTOR			415
			(THOMAS & BETTS CO.)			
9,10	12	P-353446	SPL RHM SCR .216-24 X 3/8			
9,10	6	P-400577	HEX HD CAP SCR .250-20 X 1/2			420
9,10	1	P-170012	HEX HD CAP SCR .500-13 X 1 1/4	8		
9,10	1		H285-117 L46 CA ASSY			
9,10	1		H285-117 L47 CA ASSY			425
9,10	1		H285-117 L48 CA ASSY			
9,10	6	P-284157	WASHER .276 X .515 X .056			
9,10	2	P-284169	WASHER .526 X 1.015 X .056			
9,10	1	P-182909	HEX NUT .500-13			430
5	1	ED-81782-31H	G-2 FUSE PANEL E/W FIG. C			435
6	1		G-3			
7	1		G-4			440
5,6,7	1		G-A RESISTOR (MTD IN POS 2)			
5,6,7	1	P-48K823	BUS BAR			
5,6,7	3FT	KS-20195	2/0 GAUGE WIRE			445
5	1		5411HUB CONNECTOR			
6,7	2		5411HUB			
5	1		5426SUB			
6,7	2		5426SUB			450
			(THOMAS & BETTS CO.)			
5,6,7	1		H285-117 L49 CA ASSY			
6,7	1		H285-117 L50 CA ASSY			
5,6,7	8	P-353447	SPL RHM SCR .216-24 X 1/2			455
5	2	P-400577	HEX HD CAP SCR .250-20 X 1/2			
6,7	4	P-400577	HEX HD CAP SCR .250-20 X 1/2			
5	1	P-125775	.375-16 X 7/8			
6,7	2	P-125775	.375-16 X 7/8			460
6,7	4	P-284157	WASHER .276 X .515 X .056			
5	2	P-284157	WASHER .276 X .515 X .056			
5	2	P-284163	.401 X .745 X .056			465
6,7	4	P-284163	.401 X .745 X .056			
5	1	P-182907	HEX NUT .375-16			470
6,7	2	P-182907	HEX NUT .375-16			
8	1	ED-81782-31	G-6 FUSE PANEL E/W FIG. D			480
8	1	ED-81782-31	G-A RESISTOR (MTD IN POS 1)			
8	2	P-40E108	BUS BAR			
8	1	P-41V801	BUS BAR			

AB	AC	AD	AE	AF	AG	COL
LIST	QTY PER LIST	CODE	DESCRIPTION	NOTE	LINE	
4	1	ED-81782-31	G-1 FUSE PANEL E/W FIG. E			521
4	1	ED-81782-31	G-A RESISTOR (MTD IN POS 2)			
4	1	P-41L441	BUS BAR			525
4	1	KS-20195	2 GAUGE WIRE			
4	1		5410HUB CONNECTOR			
4	1		5414HUB CONNECTOR			530
			(THOMAS & BETTS CO.)			
4	1		H285-117 L55 CA ASSY			
4	4	P-353447	SPL RHM SCR .216-24 X 1/2			535
4	1	P-400577	HEX HD CAP SCR .250-20 X 1/2			
4	1	P-172485	HEX HD CAP SCR .250-20 X 5/8			
4	3	P-284157	WASHER .276 X .515 X .056			540
4	1	P-220756	HEX NUT .250-20			545
T	1	J86470G-1	L-H CONTROL UNIT			550
11	1	ED-81782-31H	G-14 SWITCH AND FUSE UNIT E/W			
11	1		G-16 SWITCH AND FUSE UNIT			
11	1		G-A RESISTOR (MTD IN POS 1)			
12	1		G-16 SWITCH AND FUSE UNIT			555
13	1		G-14 SWITCH AND FUSE UNIT E/W			
13	1		G-17 SWITCH AND FUSE UNIT			
13	1		G-A RESISTOR (MTD IN POS 1)			560
14	1		G-17 SWITCH AND FUSE UNIT			
AN	1	J86470G-1	L-AE			565
AH	1	J86470G-1	L-Y			
AL	1	J86470G-1	L-WH			
AG	1	J86470G-1	L-U			
X	1	J86470G-1	L-S			
U	1	J86470G-1	L-M			570
V	1	J86470G-1	L-N			
W	1	J86470G-1	L-P			
R	1	J86470G-1	L-WC			
1	1	J86470G-1	L-3,B,WB CONTROL UNIT			
2	1	J86470G-1	L-4,B,WB CONTROL UNIT			575
S	1	J86470G-1	L-WD CONTROL UNIT			
F	1	J87223C-2	L-A RECTIFIER EQUIPMENT			II
22,23	1	J87223C-2	L-2,4 RECTIFIER			
26,27	1	J87223C-2	L-2,4,WA			
24,25	1	J87223D-2	L-2,4			580
28,29	1	J87223D-2	L-2,4,WA			
G	1	J87223D-2	L-A RECTIFIER EQUIPMENT			II
17,18	1	P-41W497	GROUND BAR E/W FIG. H			590
17,18	2	P-403904	TERMINAL STRIP			
17	2	840236509	BRACKET			
18	2	840236517	BRACKET			
17	4		2165-1A INSULATOR (GLASTIC CORP.)			595
17,18	5	840059109	PHM SCR .164-32 X 5/8			
17	4	841059868	PHM SCR .250-20 X 5/8			
18	4	840060214	PHM SCR .216-24 X 9/16			600
17,18	5	P-206519	HEX NUT 164-32			
17	4	P-400577	HEX HD CAP SCR .250-20 X 1/2			
17,18	4	840060206	PHM SCR .216-24 X 1/2			
17,18	10	P-42E185	WASHER .183 X .508 X .036			

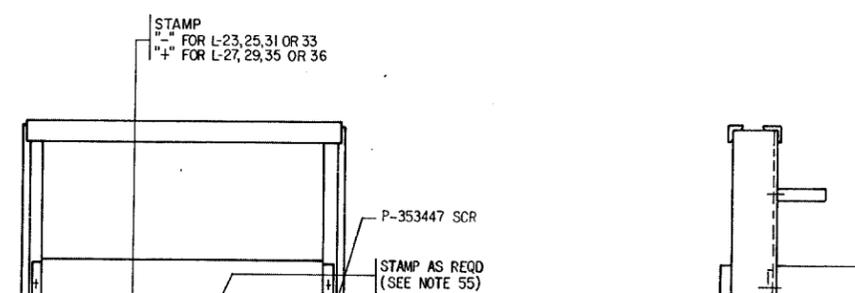
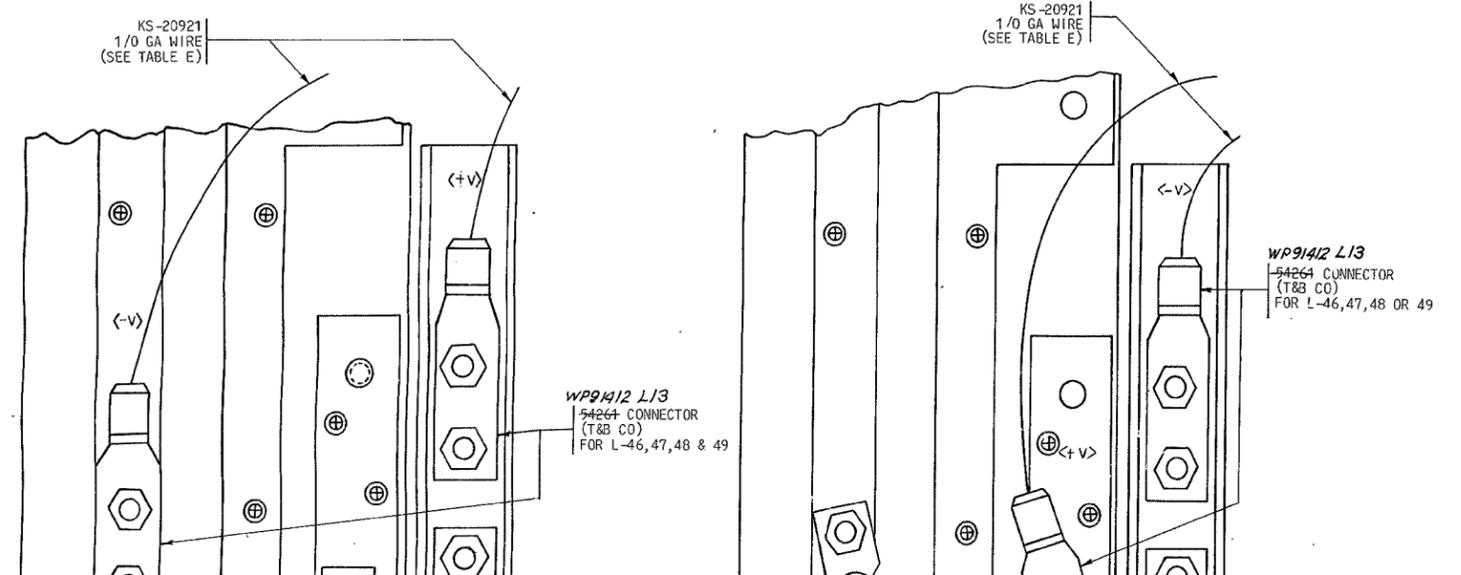
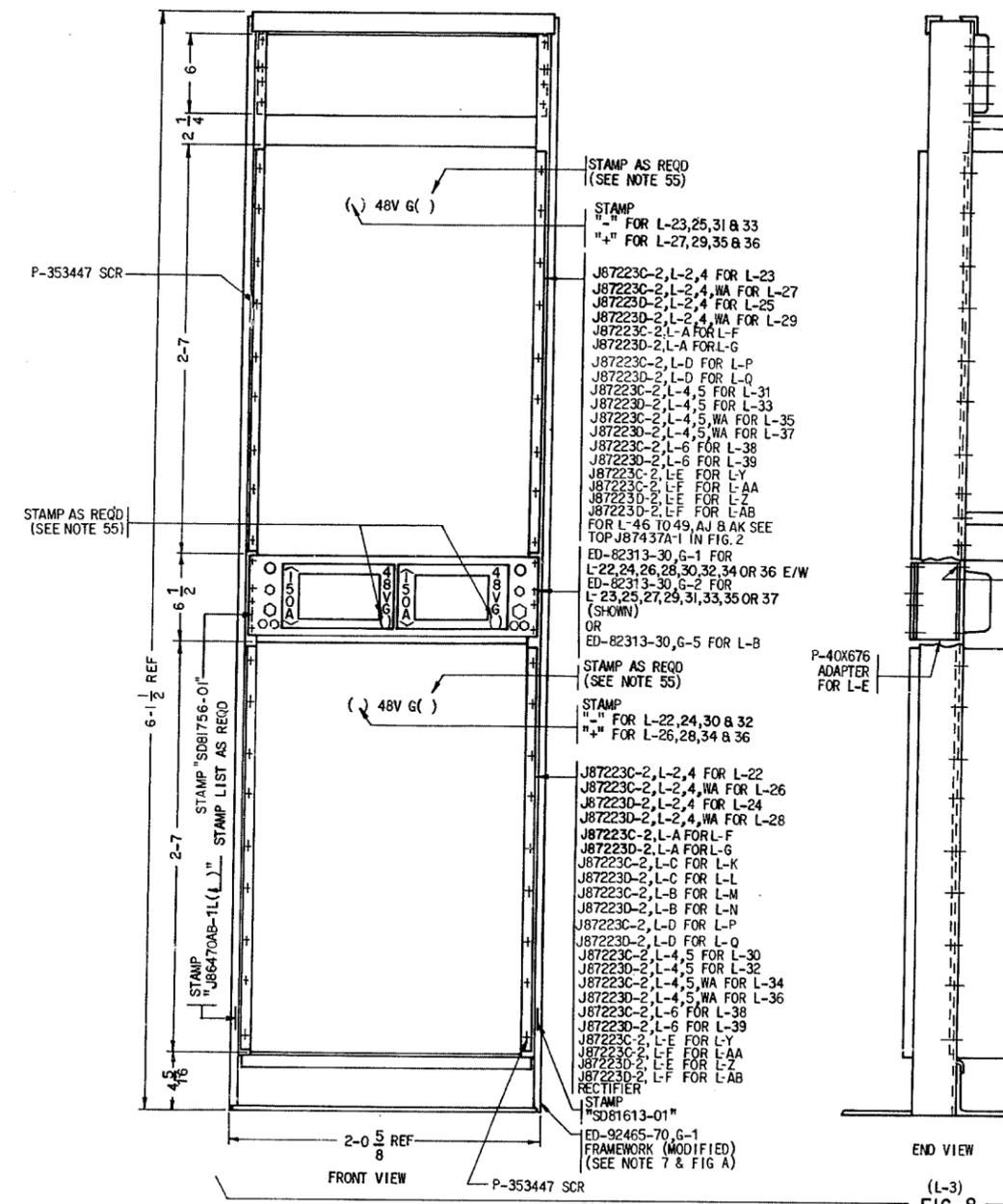
AB	AC	AD	AE	AF	AG	COL
LIST	QTY PER LIST	CODE	DESCRIPTION	NOTE	LINE	
11	1	P-40X612	PANEL E/W FIG. M			641
11	1	P-40X613	INSULATOR			
11	4	P-40X960	BUS BAR			
11	1	P-40X961	BUS BAR			645
11	1	P-40X610	BUS BAR			
11	10		38-108-13-91 DRIVE RIVET			
11	4		38-108-20-91			650
11	8		38-112-32-91 (SOUTHCO DIV, SOUTH CHESTER CORP)			
11	8	840060289	PHM SCR .216-24 X 1 1/2			655
11	2	P-210317	HEX HD CAP SCR .500-13 X 7/8			
11	8	P-42E187	WASHER .229 X .640 X .056			660
11	2	P-42E191	WASHER .526 X 1.280 X .056			
11	2	P-182966	SPG STL LKWR .500 HVY			665
19,20	1	P-40X732	GROUND BAR E/W FIG. N			
19,20	5	P-40X965	BUS BAR			
19,20	2	P-406732	TERMINAL STRIP			675
19	4		2165-1A INSULATOR (GLASTIC CORP.)			680
19,20	3	840059109	PHM SCR .164-32 X 5/8			
19	8	841059850	PHM SCR .250-20 X 9/16			685
20	4	P-353447	SPL RHM SCR .216-24 X 1/2			
19,20	10	P-127312	HEX HD CAP SCR .375-16 X 1			690
19,20	6	P-42E185	WASHER .183 X .508 X .036			
19	4	P-109896	WASHER .276 X .745 X .056			
19,20	20	P-284163	.387 X .734 X .071			695
19	4	P-182955	SPG STL LKWR .250 HVY			
19,20	3	P-206518	HEX NUT 164-32			700
19,20	10	P-182907	HEX NUT .375-16			
K	1	J87223C-2	L-C RECTIFIER EQUIPMENT			S
L	1	J87223D-2	L-C			S
M	1	J87223C-2	L-B			705
N	1	J87223D-2	L-B			
1,2	1	P-40X758	BUS BAR			710
A	1	P-40X759	BUS BAR			
11,12	1	P-40X962	BUS BAR			
13	1	P-40X963	BUS BAR			
14	1	P-40X964	BUS BAR			
11,13	1	P-48G077	BUS BAR			
12,14	1	P-48G078	BUS BAR			715
1,2	1	P-40X760	BUS BAR SUPPORT			
A	2	P-40X760	BUS BAR SUPPORT			
1,2	1	P-49D471	ANGLE			720
A	2	P-49D471	ANGLE			

AB	AC	AD	AE	AF	AG	COL
LIST	QTY PER LIST	CODE	DESCRIPTION	NOTE	LINE	
1,2,A	2	840060214	PHM SCR .216-24 X 9/16			761
1,2	2	840060248	.216-24 X 7/8			
15	2	841060205	.375-16 X 5/8			
A	4	840060248	.216-24 X 7/8			
46,47,48,49	26	P-393447	.216-24 X 1/2			770
1,2	12	P-353446	SPL RHM SCR .216-24 X 3/8			
C,D	4	P-353446	.216-24 X 3/8			
11,13	12	P-353500	.216-24 X 7/16			775
E	8	P-353447	.216-24 X 1/2			
22,23,24,25	18	P-353447	.216-24 X 1/2			
26,27,28,29						
30,31,32,33						780
34,35,36,37						
A	2	P-353450	.216-24 X 1			
1,2,3	4	P-182126	FHM SCR .216-24 X 7/16			
AH	4	P-393447	SPL RHM SCR .216-24 X 1/2			785
21	8	840060230	PHM SCR .216-24 X 3/4			
51	4	P-400577	.250-20 X 1/2			790
1,2,3	2	P-400577	HEX HD CAP SCR .250-20 X 1/2			
1,2	4	P-172485	.250-20 X 5/8			
A	4	P-133102	.250-20 X 7/8			
11,12,13,14	1	P-133102	.250-20 X 7/8			795
1,2	2	P-133102	.250-20 X 5/8			
11,12,13,14	2	P-127312	.375-16 X 1			
12,14	2	P-147285	.375-16 X 1 1/2			
11,13	3	P-147285	.375-16 X 1 1/2			
11	4	P-127312	.375-16 X 1			800
12,14	1	P-160879	.375-16 X 2			
46	1					J8743
47	1					
48	1					
49	1					
46	1					J8743
47	1					
48	1					
49	1					
51	4	P-284157	.276 X .515 X .056			
1,2	2	P-284157	.276 X .515 X .056			810
A	8	P-284157	.276 X .515 X .056			

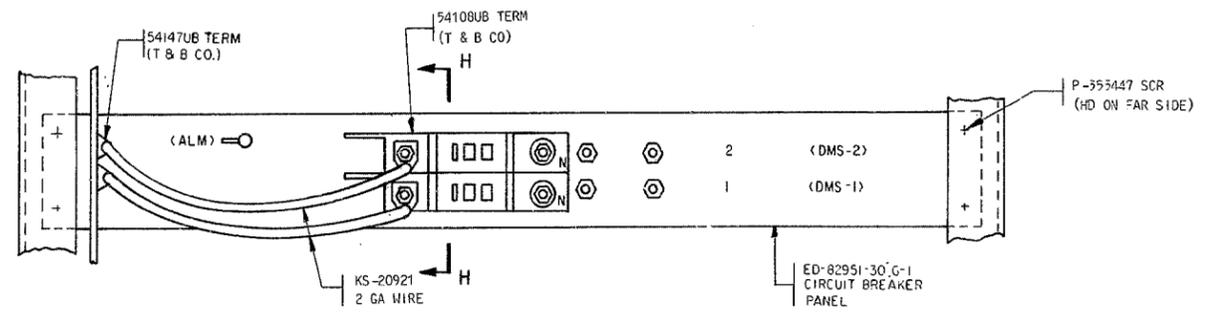
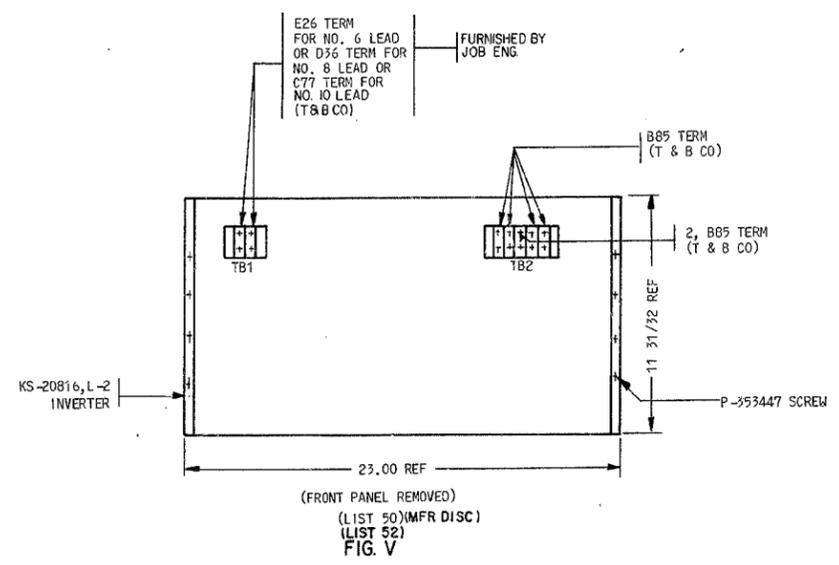
47.5
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TABLE A (CONTINUATION FROM SHEET 1)							
COL	A	B	C	D	E	F	H
EQUIPMENT	RAT- ING	LIST	NO.	CIRCUITS AND FIGURES EQUIPPED			
				CKT	FIG	WRG	APP
RESERVED		40 TO 45					
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 3. PROVIDES ONE NEGATIVE 48 VOLT, 100 AMPERE RECTIFIER FOR NEGATIVE PLANT OPERATION WITH AN AC INPUT OF 208/240 VOLTS 3 PHASE 60HZ		46	1	J87437A-1 T-81613-30	L-1,3,C,D WB 58		
EQUIPMENT REQUIRED IN ADDITION TO LIST 2 OR 3. PROVIDES ONE POSITIVE 48 VOLT, 100 AMPERE RECTIFIER FOR POSITIVE PLANT OPERATION WITH AN AC INPUT OF 208/240 VOLTS 3 PHASE 60HZ		47	1	J87437A-1 T-81613-30	L-1,3,C,D WA 59		
EQUIPMENT REQUIRED IN ADDITION TO LIST 1 OR 3. PROVIDES ONE NEGATIVE 48 VOLT, 100 AMPERE RECTIFIER FOR NEGATIVE PLANT OPERATION WITH AN AC INPUT OF 480 VOLTS 3 PHASE 60HZ.		48	1	J87437A-1 T-81613-30	L-2,3,C,D WB 60		
EQUIPMENT REQUIRED IN ADDITION TO LIST 2 OR 3. PROVIDES ONE POSITIVE 48 VOLT, 100 AMPERE RECTIFIER FOR POSITIVE PLANT OPERATION WITH AN AC INPUT OF 480 VOLTS 3 PHASE 60HZ		49	1	J87437A-1 T-81613-30	L-2,3,C,D WA 61		
EQUIPMENT REQUIRED TO PROVIDE AN INVERTER AS REQUIRED FOR THE DIGITAL MULTIPLEX SYSTEM (DMS-10) (SEE NOTES 69, 70 & 71)	MFR DISC	50	1	T-81613-30	64		
EQUIPMENT REQUIRED TO PROVIDE A DISCHARGE CIRCUIT BREAKER PANEL FOR THE DIGITAL MULTIPLEX SYSTEM (DMS-10) (SEE NOTE 70)	MFR DISC	51	1	T-81613-30	65		
EQUIPMENT REQUIRED TO PROVIDE AN INVERTER AS REQUIRED FOR THE DIGITAL MULTIPLEX SYSTEM (DMS-10) (SEE NOTES 69, 70, 71).		52	1	T-81613-30	64		
EQUIPMENT AND WIRING REQUIRED TO PROVIDE A LOW VOLTAGE MONITOR AND DISCONNECT PANEL, 9 INCHES HIGH ARRANGED TO MOUNT TWO GJ2-210 TYPE CIRCUIT BREAKERS, 125 TO 250 AMPERE CAPACITY (DMS 10) (SEE NOTE 70 & 72).		53	1	T-81613-30 ED-85001-30	66 GR 1, WB		

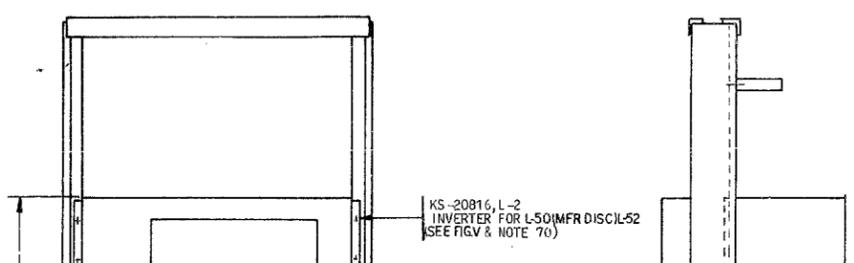
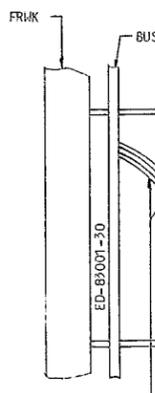
TABLE A							
COL	A	B	C	D	E	F	H
EQUIPMENT	RAT- ING	LIST	NO.	CIRCUITS AND FIGURES EQUIPPED			
				CKT	FIG	WRG	APP
REQUIRED IN ADDITION TO LIST 3 TO PROVIDE A 3 INCH HEAT BAFFLE ABOVE THE LOWER J87437A RECT WHEN THE UPPER J87437A RECT IS ADDED		AH					
REQUIRED IN ADDITION TO LIST 46 OR 47 FOR USE WITH 208V AC SERVICE		AJ	1	J87437A-1	L-4C		
REQUIRED IN ADDITION TO LIST 46 OR 47 FOR USE WITH 240V AC SERVICE		AK	1	J87437A-1	L-4D		
REQUIRED IN ADDITION TO LIST 1 OR 2 FOR CONNECTION FROM STORED PROGRAM CONTROL SYSTEM (SPCS) OFFICE ALARM CIRCUIT ARRANGED TO ACCEPT "BD" LEAD (BATTERY DISCHARGING ALARM INDICATIONS)		AL	1	J86470G-1	L-WH		
ALWAYS REQUIRED IN ADDITION TO LIST 1 OR 2 TO PROVIDE A CIRCUIT IMPROVEMENT IN LIGHTING THE "FA" LAMP		AM	1	J86470G-1	L-Y		
REQUIRED IN ADDITION TO LIST 1 OR 2 WHEN LOOP CLOSURE OF "BD" AND "BR" LEADS (BATTERY DISCHARGING ALARM INDICATIONS) ARE REQUIRED IN A STORED PROGRAM CONTROL SYSTEM (SPCS) OFFICE		AN	1	J86470G-1	L-AE		
EQUIPMENT REQUIRED IN ADDITION TO LIST 53 TO PROVIDE TWO GJ2-210 TYPE CIRCUIT BREAKERS WITH							
	125	AMPERE	AP	1	A		
	150	CAPACITY	AQ	1	B		
	175		AR	1	C		
	200		AS	1	D		
	225		AT	1	E		
	250		AU	1	F		
EQUIPMENT REQUIRED IN ADDITION TO LIST 53 TO PROVIDE A CIRCUIT MODULE WITH A DISCONNECT VOLTAGE OF							
	41.39	VOLTS	AV	1	N		
	42.25		AW	1	P		
	43.11		AX	1	Q		
	44.02		AY	1	R		
	44.95		AZ	1	S		



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



REAR VIEW
(LIST 51)
FIG. W
(MFR DISC)



FOR GA S
1/
2/
4/

FOR GA S
2/
4/