

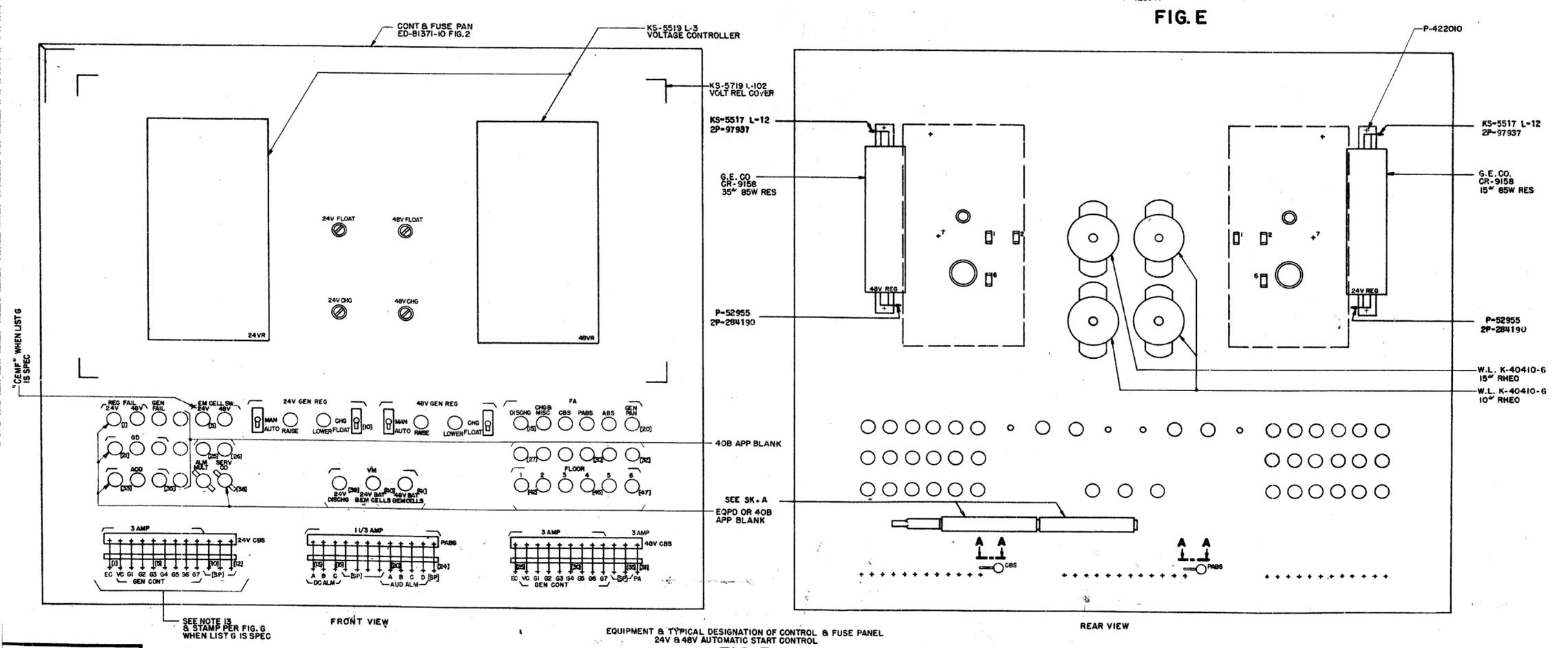
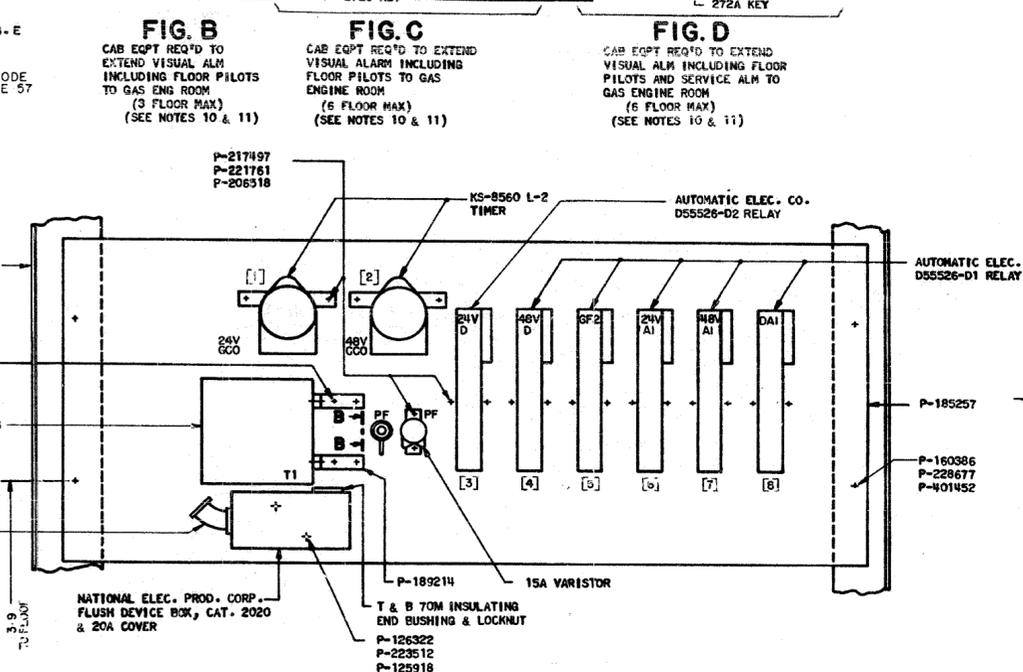
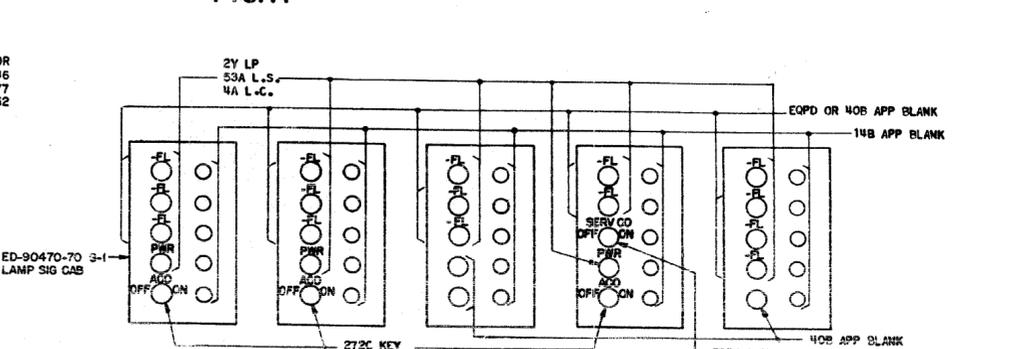
TABLE B

KEY & LAMP PANEL MOUNTING POSITIONS

LIST	1	E	F	N	1ST Q	2ND Q	3RD Q	4TH Q	5TH Q	6TH Q
2Y LAMP 53A L.S.	1, 2, 3, 5, 6				92	93	94	95	96	97
NA L.C.	15, 16, 17, 18, 19									
	20, 21, 22, 23									
378A KEY	11, 14									
38A KEY LEVER										
92A KEY	8, 9, 12, 13	39, 40	39, 40	41						
272C KEY	37									
272A KEY					38					
378A KEY 23A KEY LEVER	7, 10									

FUSE MOUNTING POSITIONS

LIST	1	1ST A	2ND A	3RD A	4TH A	5TH A	1ST C	2ND C	3RD C	4TH C	5TH C	E
35A FUSE	13, 14, 15, 20											
35B FUSE	21, 22, 23											
35C FUSE	2, 3, 4, 26	29	30	31	32	33	5	6	7	8	9	1, 25
35D FUSE	27, 28, 36											

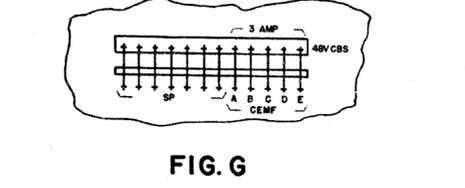
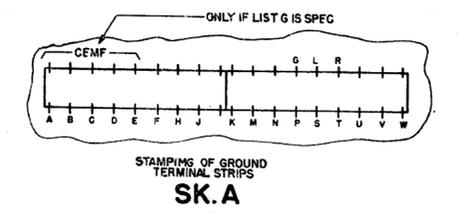
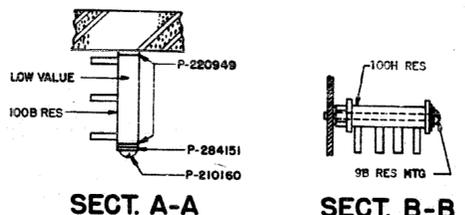


J86323A-1

FILM NOTE
J86323A-1 SH.
ISS. 3 SECT

ONS	Q	Q	Q	Q	Q	Q	Q	Q	Q
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

LIST	QTY	CODE	DESCRIPTION	NOTE	LINE
1	1	ED-80483-30	G-3 FRWK ASSEM (MOD)		6
1	1	P-41572	CABLE BRACKET		
1	1	ED-80483-30	G-10 METER PAN MTO BRKT		
1	1	LC-963-019	G-1 LOCAL CABLE		
1	1	ED-80304-30	G-5 METER PANEL E/W		5
1	1	598	VOLTMETER (0-75V)		
1	1	ED-81371-10	G-2 CONT A FUSE PAN E/W		
1	2	KS-5519	L-3 VOLTAGE CONTROLLER		
1	1	CR-9159	G.E. CO. RES DWS K-2814382		
1	1	CR-9159	PT 1 35W 85W		10
1	1	CR-9159	G.E. CO. RES DWS K-2814382		
1	1	CR-9159	PT 1 15W 85W		
1	3	K-40110-6	M.A. 10W RHM TYPE RHO		
1	1	K-40110-6	M.A., 15W		
1	4	378A	KEY		15
1	7	92A	KEY		
1	3	92A	"		
1	1	272A	"		
1	1	272C	"		20
1	2	6A	KEY LEVER		
1	2	23A	"		
1	14	2Y	LP		
1	1	2Y	"		
1	14	55A	L.S.		25
1	1	53A	"		
1	14	4A	L.C.		
1	1	4A	"		30
1	7	350	FUSE		
1	1	350	"		
1	2	350	"		
1	1	35A	FUSE		35
1	22	63A	"		
1	2	40B	APP BLANK		
1	2	KS-5517	L-12 SOLDERLESS TERM LUG		40
1	2	P-52955	TERM PCHG		
1	1	KS-5719	L-102 VOLTAGE RELAY COVER		
1	1	P-420986	RHM SCR #4 X 1/2		45
1	1	P-420986	" " #4 X 1/2		
1	1	P-420986	" " #4 X 1/2		
1	1	P-422019	" " #10 X 3/4		
1	2	P-210160	RHM SCR #6 X 2 1/2		50
1	2	P-284151	WASHER .156 X .500 X .045		
1	4	P-97937	" .173 X .469 X .045		
1	4	P-284190	" .170 X .375 X .032		
1	4	P-220984	ASB WASHER .203 X .500 X .063		55
1	1	ED-81380-10	G-1 RELAY EQPT		
A	1	ED-81380-10	G-2 " "		
B	1	ED-81380-10	G-3 " "		60
C	1	ED-81380-10	G-4 " "		
D	1	ED-81380-10	G-5 " "		
E	1	ED-81380-10	G-6 " "		
M	1	ED-81380-10	G-7 " "		
P	1	ED-81380-10	G-8 " "		65
T	1	P-187313	BLANK PANEL		
L	1	P-17131	BLANK PANEL		
H	1	J66220-1	L-T RECTIFIER		
J	2	P-187588	ADAPTER		
M	1	7245-V	APPLETON ELEC PROD 45° CONN		70
A.C.	1	63A	FUSE		
E	1	63A	"		
E.F.	1	40B	APP BLANK		75
R.S.	3	40B	APP BLANK		
R.S.	5	14B	"		
R	1	ED-80470-70	G-1 LAMP SIGNAL CABINET		80
S	1	272A	KEY		
R	1	272C	"		
N.S.	1	ED-91192-30	G-27 SUBSET		
L.R.	1	ED-91192-30	G-28 ALARM BELL PANEL		85
R.T.	1	2Y	LP		
R.T.	1	53A	L.S.		
R.T.	1	4A	L.C.		
1	1	P-185257	APP MTO PLT		
1	1	344E	TRANSFORMER		
1	1	100H	RES		
1	1	9B	RES MTO		
1	1	15A	VARIATOR		
1	1	2020	MATL ELEC PROD CORP		
1	1	20A	MATL ELEC PROD CORP COVER		
1	1	320V	T & B 45° CONNECTOR		100
1	1	70M	T & B INSULATING END BUSHING		
1	1	141	T & B LOCKNUT		
1	2	P-189214	BRACKET		
1	4	D-555260-1	A.E. CO. RELAY (POS 5 TO B)		
E	1	D-555260-2	" " (POS 3)		105
E	1	D-555260-1	" " (POS 4)		
B.D.	1	KS-8560	L-2 RESFTTING TIMER (L-B POS 2 & L-D POS 1)		
1	10	P-217497	RHM SCR .164-32 X 7/16		
B.D.	2	P-217497	" " .164-32 X 7/16		
E	4	P-217497	" " .164-32 X 7/16		
1	2	P-126322	" " .190-32 X 1/2		110
1	4	P-160883	" " .164-32 X 5/8		
1	14	P-221761	LOCKWASHER .164 X .310 X .047		
E	4	P-221761	" .164 X .310 X .047		
B.D.	2	P-221761	" .164 X .310 X .047		115
1	2	P-223512	" .190 X .353 X .056		
1	4	P-228677	" .375 X .746 X .123		
1	14	P-206518	HEX NUT .164-32		120
E	4	P-206518	" .164-32		
B.D.	2	P-206518	" .164-32		
1	2	P-125918	" .190-32		
1	4	P-401452	" 3/8-16		
1	8	P-416092	BOLT ASSEMBLY		125
1	6	P-60386	FHM SCR 3/8-16 X 1		
L	6	P-160113	RHM SCR 3/8-16 X 1		
1	4	P-160113	" 3/8-16 X 1		
J	16	P-160113	" 3/8-16 X 1		130
1	16	P-228677	LOCKWASHER .375 X .746 X .123		
J	16	P-228677	" .375 X .746 X .123		
L	6	P-228677	" .375 X .746 X .123		
J	16	P-401452	HEX NUT 3/8-16		
1	16	P-401452	" 3/8-16		135
L	6	P-401452	" 3/8-16		136



ENGINEERING NOTES	
THIS DRAWING AGREES WITH	ISSUE 1
ED-81381-01	3
BSP-AA365.017	2

MANUFACTURING NOTES	
1	ITEMS NOT MARKED TO BE ASSEMBLED WHEN EQUIPMENT IS MOUNTED IN THE SHOP OR SHIPPED LOOSE WHEN EQUIPMENT IS MOUNTED BY THE INSTALLER.
2	ITEMS DESIGNATED "S" ARE TO BE SHIPPED SEPARATE.
3	INVOLVED IS SHOP ASSEMBLED OR BY INSTALLER WHEN FIELD ASSEMBLED.
4	EQUIP CIRCUITS PER TABLE "A" IN ACCORDANCE WITH THE LISTS SPECIFIED
5	DESIGNATIONS IN [] ARE FOR WIRING INFORMATION ONLY & SHALL NOT BE STAMPED
6	MODIFICATION OF FRAMEWORK ED-80483-30 G-3 CONSISTS OF COUNTERSINKING PRESENT HOLES ON OUTER SIDE OF 2 1/2" FLANGE OF P-412602 & P-412618 AND OUTER SIDE OF P-412603 FOR 3/8-16 FHM SCR AT LOCATIONS SHOWN PER FIG. A.
7	STAMP "J" SPEC NUMBER ON REAR OF FRAMEWORK AS SHOWN IN FIG. 1.
8	APPARATUS BLANKS SHALL BE CUT TO FIT WHEN REQUIRED
9	KEYS, FUSES & LAMPS SHALL BE MOUNTED IN POSITION ON CONT & FUSE PANEL ED-81371-10 G-2 IN ACCORDANCE WITH TABLE B ASSEMBLE EQUIPMENT TO CABINETS IN GAS ENGINE ROOM PER FIGS. B,C,D AS REQUIRED.
10	KEYS IN CABINET PER ED-80470-70 G-1 SHALL BE MOUNTED WITH SHELVES IN VERTICAL POSITION. DRILL NECESSARY SCREW HOLES. WHEN TRICKLE CHARGE RECTIFIERS ARE NOT PROVIDED, EQUIP POSITION WITH BLANK PANEL P-17131.
11	IF 24 VOLT SUPPLY IS OBTAINED BY MEANS OF C.E.M.F. CELLS INITIALLY BUSBAR SHALL BE CONNECTED TO THE 48V CBS BUSBAR WITH A NO. 14 LEAD, AND ALL 24V CBS LEADS REMOVED. DESIGNATION OF FUSES SHALL BE AS IN FIG. 6. IN FIG. F CHANGE STAMPING OF LAMP IN POS 5 FROM "24V" TO "CEMF" AND IN SK. A ADD "CEMF" FOR 5 GRD TERMS WHEN 24V CHG. UNITS AND CONTROL ARE ADDED. C.E.M.F. CONTROL LEADS AND LEAD TO 48V CBS BUSBAR SHALL BE REMOVED AND CHARGE UNIT CONTROL LEADS CONNECTED.
12	USE P-420936 FOR MTO KEYS & LAMP SOCKETS ON ASB COMP PANEL.

NDD 86323-1	5-1-49
78 E.C.L. R.M.C.	097
RATING OF DWG WAS "STANDARD"	CL. B.F.V.T.
5-10-55	CL. B.F.V.T.
78 E.C.L. R.M.C.	097
NOTES 57, 58 & WRG PROV BY INST TBL ADDED.	CL. B.D.
5-5-72	CL. B.D.
m.m. R.A.K.	3

NOB APP BLANK
-14B APP BLANK

P BLANK

AUTOMATIC ELEC. CO.
D55526-D1 RELAY

P-185257

P-160986
P-228677
P-401452

KS-5517 L-12
2P-97937

G.E. CO.
CR-9159
15W 85W RES

P-52955
2P-284190

W.L. K-40410-6
15W RHEO

W.L. K-40410-6
10W RHEO

T	EQPT REQD IN ADDN TO LIST T TO EXTEND FLOOR PILOTS TO GAS ENG ROOM (SPEC 1 LIST FOR EACH LIST Q WHEN REQD)	T-81060-11 FIG 100
S	EQPT REQD IN ADDN TO LIST T TO EXTEND SERVICE ALM TO GAS ENG ROOM	T-81061-11 FIG 100
R	EQPT REQD IN ADDN TO LIST 1 TO EXTEND THE AUD ALMS TO GAS ENG ROOM	T-81061-11 FIG 4 T-81061-11 FIG 5 T-81061-11 FIG 6
Q	EQPT REQD IN ADDN TO LIST 1 FOR FLOOR PILOTS IN THE MC BD TO INDICATE TROUBLE ON OTHER FLOORS (MAX 6) (SPEC 1 LIST FOR EACH FLOOR)	T-81060-11 FIG 8
P	EQPT REQD IN ADDN TO LIST 1 FOR PHR SERV FAILURE TRANSFER	T-81061-11 FIG 7
N	EQPT REQD IN ADDN TO LIST 1 FOR SERVICE ALM IN PHR ROOM	T-81061-11 FIG 3
M	EQPT REQD IN ADDN TO LIST 1 FOR ALARM CUT OFF IN AN UNATTENDED OFFICE	T-81061-11 FIG 2

L	BLANK PANEL REQD WHEN RECTS ARE NOT MTO ON MC BD (SEE NOTE 56)	
K	BLANK PANEL FOR ONE VACANT RECT POSITION	
J	ADAPTER DETAILS REQD WHEN TRICKLE CHG RECTIFIERS ARE MTO ON (1 LIST PER PLANT)	
H	24V & 48V TRICKLE CHARGE RECTIFIER (SEE NOTE B 55) (SPEC 1 LIST FOR EACH RECT)	T-80834-11 FIG 8 OR T-80836-11 FIG 6
G	EQPT REQD IN ADDN TO LIST 1 WHEN 24V SUPPLY THROUGH CEMF CONT UNIT J66322L IS PROVIDED (SEE NOTE 56)	
F	EQPT REQD IN ADDN TO LIST 1 FOR 24V & 48V MAN EN CELL SWITCHING (SPEC 1 LIST FOR BOTH 24V & 48V)	T-80834-11 FIG 7 (VOLTMETER CKT)
E	EQPT REQD IN ADDN TO LIST 1 FOR 24V & 48V AUTO EN CELL SWITCHING (SPEC 1 LIST FOR BOTH 24V & 48V)	T-80836-11 FIG 4 T-80836-11 FIG 5
D	EQPT REQD IN ADDN TO LIST 1 TO PROVIDE GENERATOR CUT OFF FEATURE ON 24V CHG UNITS (1 PER PLANT-SEE NOTE 54)	T-81039-11 FIG 2
C	EQPT REQD IN ADDN TO LIST 1 FOR 3RD, 4TH, 5TH, 6TH & 7TH-24V CHG UNIT (SPEC 1 LIST FOR EACH CHG UNIT)	T-81039-12 FIG 1 & A TO E AS REQD. (CKTS 3 TO 7)
B	EQPT REQD IN ADDN TO LIST 1 TO PROVIDE GENERATOR CUT OFF FEATURE ON 48V CHG UNITS (1 PER PLANT - SEE NOTE 54)	T-81037-11 FIG 2 (T-81037-11 FIG 1) "2" WRG
A	EQPT REQD IN ADDN TO LIST 1 FOR 3RD, 4TH, 5TH, 6TH & 7TH - 48V CHG UNIT (SPEC 1 LIST FOR EACH CHG UNIT)	T-81037-12 FIG 1 & A TO E AS REQD. (CKTS 3 TO 7)
1	COMMON EQPT FOR DIAL SYSTEMS, MAIN CONTROL BOARD, COMBINED 24V & 48V PLANTS ARRANGED FOR AUTO START CONTROL & AUTO REG OF CHG UNITS. (COHM TYPE N-G SETS & KS-551-02 DISC RECTIFIERS) INCLUDES FRWK, METER PANEL, CONT & FUSE PANEL & LOCAL CABLE	T-81037-11 FIG 1 (1ST 48V CHG UNIT) T-81037-11 FIG 3 (2ND 48V CHG UNIT) T-81037-11 FIG 4 (1ST 24V CHG UNIT) T-81039-11 FIG 1 (2ND 24V CHG UNIT) T-81039-11 FIG 2 (2ND 48V REG) T-81039-11 FIG 3 (2ND 48V EN CELL) T-81060-11 FIG 6 T-81060-11 FIG 7 T-81061-11 FIG 1 T-81061-11 FIG 4 T-81061-11 FIG 5

41	PWR AUD ALM CKT	SD-81061-01	T-81061-11	ZC OR ZD	
40	PWR AUD ALM CKT	SD-81061-01	T-81061-11		
39	PHR SERV FAIL TRNS	SD-81061-01	T-81061-11		
38	ALARM BELLS	"	"		
37	SERV ALM	"	"		
36	ALM CUT OFF- UNATTENDED OFF	"	"		
35	AUD ALM	"	"		
34	DC PWR ALM	"	"		
33	FLOOR PILOTS	SD-81060-01	T-81060-11		
32	GEN & RECT FUSE & FAIL ALM	"	"		
31	DELAY ALM	"	"		
30	EN CELL SW ALM (24 & 48V)	"	"		
29	REG FAIL ALM (24 & 48V)	"	"		
28	CONT BAT SUPPLY FA	"	"		
27	CHG & MISC DISCHG FA	"	"		
26	DISCHG FUSE ALM	"	"		
25	24V CHG CONT CKT	"	"		
24	7TH CHG UNIT (24V G-7)	SD-81039-01	T-81039-12	1 & E	
23	5TH " (24V G-5)	"	"	1 & D	
22	5TH " (24V G-5)	"	"	1 & C	
21	4TH " (24V G-4)	"	"	1 & B	
20	3RD " (24V G-3)	"	"	1 & A	
19	STARTING SEQUENCE CKT	"	"		
18	VOLTAGE CONTROL	"	"		
17	2ND CHG UNIT (24V G-2)	"	"		
16	GEN CUT OFF	"	"		
15	1ST CHG UNIT	"	"		
14	48V CHG CONT CKT	"	"		
13	7TH CHG UNIT (48V G-7)	SD-81037-01	T-81037-12	1 & E	
12	5TH " (48V G-5)	"	"	1 & D	
11	5TH " (48V G-5)	"	"	1 & C	
10	4TH " (48V G-4)	"	"	1 & B	
9	3RD " (48V G-3)	"	"	1 & A	
8	VOLT CONTROL	"	"		
7	2ND CHG UNIT (48V G-2)	"	"		
6	GEN CUT OFF	"	"		
5	1ST CHG UNIT (48V G-1)	"	"		
4	BAT CONT CKT (24V AUTO E.C. SW)	SD-80836-01	T-80836-12		
3	" " (48V AUTO E.C. SW)	SD-80836-01	T-80836-11		
2	" " (VM CKT)	SD-80836-01 OR SD-80839-01	T-80839-11 OR T-80839-11	9 OR	1 OR
1					

LINE	NAME	SCHEMATIC	DWG NO	FIG	OPT WIRING	WIRED	NOTES	REMARKS
6	ALM BELL PANEL	ED-91192-30	12					
5	LAMP SIG CAB ASSEM	ED-80470-70	11					
4	RELAY EQPT & STOCKLIST	ED-81380-10	10					
3	CONTROL & FUSE PANEL	ED-81370-10	9					
2	POWER BD FRWK	ED-80483-30	8					
1	METER PANEL	ED-80304-30	7					

LINE	NAME	NUMBER	LINE	NAME	NUMBER
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