SHEET INDEX-SD DWG & T DWG SHEET ISSUES ARE IN AGREEMENT AS FOLLOWS

SCHEMATIC	ISSUE	
SD-82649-01	1	2 MOD

WIRING DIAGRAM

AUTO CHG			SH NO.	ISSUE											
AH1-			A1	1	2	3	4	5	6	7	8	9	10	11	12
			A2	-	-	-	-	-	-	7	7	7	7	11	11
			B1	1	2	3	3	5	5	7	7	7	10	10	10
			B2	1	1	1	1	5	5	7	7	7	7	7	7
			B3	1	1	1	1	1	1	7	7	9	9	9	9
			B4	1	2	3	3	3	3	7	7	7	7	7	7
			B5	1	2	3	3	3	3	7	7	7	7	7	7
			B6	1	2	3	3	3	3	7	7	7	7	7	7
			B7	1	2	3	3	3	3	7	8	8	8	11	12
			B8	1	2	3	3	3	3	7	8	8	10	10	10
			B9	1	2	3	3	3	3	7	7	7	7	7	7
			B10	1	2	3	3	3	3	7	8	8	8	3	12
			B11	-	2	3	3	3	3	7	7	7	7	7	7
			B12	-	2	2	2	2	2	7	7	7	10	10	10
			B13	-	-	3	3	3	3	7	8	8	10	10	10
			B14	-	-	-	-	-	-	7	7	7	7	7	7
			D1	1	1	3	4	5	6	7	7	7	7	7	7
			D2	1	2	2	4	4	6	6	6	6	6	6	6
			D3	1	1	3	3	5	6	7	7	7	7	7	7
			D4	1	2	3	3	3	3	7	7	7	7	7	7
			D5	-	-	3	3	3	3	3	3	3	3	3	3
			D6	-	-	-	-	-	-	7	7	7	7	7	7

TABLE B-RECORD OF FIGURES COMPONENTS AND WIRING CHANGES

CHANGED ON ISSUE	SPECIFY (IF OFFICE RECORDS)	DO NOT SPECIFY (IF OFFICE RECORDS)	THIS OPTION WAS FURNISHED	SEE NOTE	STD (RATING)	A & M (RATING)	MD (RATING)	
11		D	E	57				

TABLE D-SHEET LOC OF FIGURES & OPTIONS

FIG	OPT	SHEET
H19		D6
H18	X,Y	D5
HD,HE HB,HC, H15,HA, H13,H14,		D4
H17 H12,H16, H9,H10,		D3
H8 H6,H7,	X,Y	D2
H3 H1,H2,	X,Y	D1
34		B14
35,36	HBK-HCA X,Y,	B13
32,33,39		B12
31		B11
30	N,W,Z	B10
29,38	HL HJ,HK, HF,HG,	B9
28 26 27,	N	B8
25		B7
24,37 22,23,	HAP-HBD HAJ-HAL, HM-HAH,	B6
21	HBG,HBJ HBE,HBF,	B5
20		B4
14,15,16 8,9,10,	HBE,HBF HA,HB.	B3
3,6,7	X,Y	B2
1,2	X,Y	B1

TABLE C-SD T DWG CROSS REFERENCE TABLE

LINE	FIG (SD-82649-01)	OPT (SD-82649-01)	FIG (T-82649-30)	WRG (T-82649-30)	APP (T-82649-30)	REMARKS
43			H19 TO H15			ENG SKETCH
40			39			
			38			SD-82646-01
			37			
	4	U,W	36			
	3		35			
35			H14			SD-82518-02
			34			SD-82518-02
	3	M,W	33			
	3	M,W	32			
	1	N.W	31			
30			HE			
			HD			
			HC			
			HB			
			HA			
25			H13			
			THRU			
			H1			
	3		30			
	1		29			
20	3		28			
	3		27			
	3		26			
	3	E,D	25			
	1		24			
15	1		23			
			22			
	1		21			
	2	T	20			
			16			
10			15			
			14			
			10			
			9			
			8			
5	1		7			
	1		6			
	1		3			
	1		2			
1	1	R	1			

SCHEMATIC FIGURES AND OPTIONS AGREE WITH SIMILARLY DESIGNATED WIRING DIAGRAM FIGURES AND OPTIONS AS SHOWN ABOVE. AT&T ASSIGNED FIGURES AND OPTIONS ARE PREFIXED WITH LETTER H AND HAVE NO SCHEMATIC EQUIV UNLESS SHOWN ABOVE. ITEMS IN ( ) PARENTHESES ARE FOR INFORMATION ONLY AND ARE NOT TO BE RECORDED ON JOB WIRING LIST DRAWINGS.

CA	CB	CC	CD	CE	CF

MANUFACTURING NOTES CONVENTIONS

(SHOP / INSTL)

⊗ SCREW CONNECTION OR BINDING POST.

---- CONNECTION FURNISHED AS PART OF APPARATUS.

—·— DIVISION OF GENERAL WIRING VIEWS.

●—— TERMINAL LUG.

—×— SPLICE.

1-ALL WIRING TO BE D3, SURFACE WIRING 22 GAUGE STRANDED PER KS-22247,L4 COLORED YELLOW UNLESS OTHERWISE SPECIFIED.

2-LW-DENOTES 22 GAUGE STRANDED WIRE PER KS-22247,L4 UNLESS OTHERWISE SPECIFIED. TO BE RUN LOOSE ON FRAME.

3-LEADS SHOWN TERMINATED IN COMPONENTS WITHOUT TERMINALS ARE FURNISHED WITH COMPONENTS.

4-OC-OMIT CONNECTION AND CONSIDER AS A CONTINUOUS LEAD WHEN ASSOCIATED COMPONENT IS NOT FURNISHED.

5-WHEN FIG 25 IS SPECIFIED, TAPE AND STORE ALL FC- LEADS IN FIG 26 AT POSITIONS WHERE KS-22010, L79 THRU L84 CKT BREAKERS ARE ARE NOT PROVIDED.

6-PT-LEADS FURNISHED WITH COMPONENT.

X X 7-THE FAJ MULT LEAD SHALL START IN FIG 1 (THE CONTROLLER) AND RUN TO FIGS 20,21,22,25,27 OR 36. ONLY ONE FAJ LEAD SHALL BE RUN TO CONTROLLER (FIG 1) IN THE ORIGINATING BAY.

8-NO WIRES ON THIS DRAWING ARE TO BE RUN BY THE INSTALLER EXCEPT WIRING IN H FIGURES ON SHEETS PREFIXED WITH THE LETTER D.

X 9-WIRES NOT TO BE CONNECTED UNTIL SHOP TESTS ARE COMPLETED.

10-A"-WIRES NOT TO BE CONNECTED UNTIL SHOP TESTS ARE COMPLETED.

X 11-WHEN UNIVERSAL SHUNT MONITOR CIRCUIT IS PROVIDED THE INSTALLER SHALL REMOVE THE TERMINAL PROVIDED WITH THE FUSE ASSEMBLY AND TERMINATE LEAD IN A A224 STAKON TERM(T&B).

X X 12-THE INSULATION COLOR COMBINATIONS OF 820A SWITCHBOARD CABLE PAIRS HAVE BEEN CHANGED.NEW CONTROL CABLES WILL BE MANUFACTURED WITH THE NEW COLOR COMBINATIONS,SEE TABLE L FOR COLOR CONVERSION INFORMATION.

(CONTINUATION)

ON SH B1 IN FIG 2 AT (TB3) DC OUTPUT, "846523611" WAS "845561943".
ON SH B8 IN FIG 26 "846284602" WAS "KS-22010,L100", IN FIG 27 & 28 WIRE COLOR "W-BR" WAS "BR", IN FIG 28 "846274397" WAS "KS-21225,L4". ON SH B12 IN FIG 39 "846523629" WAS "845561943". ON SH B13 IN FIG 35 WIRE COLOR "W-BR" WAS "BR",ADDED "20 GA" WIRE DES. "846274397" WAS "KS-21225,L4"; IN FIG 36 "846284628" WAS "KS-22010,L103" & "846284636" WAS "KS-22010,L104"

POINT ISSUES 9.1, 9.2
C00001DJ CLASS "AU"

RJP	RLH RWD	3-13-90	10

ADD NOTE 57 SHA2.
CHG S2 FIG 25 SHB7.
PDI ED8318230.DJ1 CLM

PLK	MCS	01-24-91	11

CHG S1, FIG 25, SH B7
D S1, FIG 30, SH B10
PDI 91ESDJ0156 CLM

JDT	MAD	12-23-91	12

FJO ASP	DGC MG	2-28-86	1

S LEAD BET FIG 20 (TB3) TS TERM 3 & FIG 29 (CHG GRD) BUS BAR ADDED. FIG 31,32,33,34 & H14 ADDED. THRU OUT DWG. MISC CHGS MADE.
MDD85500NJ-15
MDD83182-30NJ-2 CLASS "D"

FJO	EJW	1-16-87	2

ON SHA1,NOTES 11,55 & 76 ADDED. FIGS H15,H18,35 & 36 ADDED.

POINT ISSUES 2.1,2.2,2.3
MDD85500NJ-18
MDD83182-30NJ-3 CLASS "B"

FJO RJP	AD MG	2-26-88	3

ON SHA1,DIST CODE READ "4M99" ON SHTS D1 & D2 TABLES ASSOC WITH FIGS H2,H6 & H7 WERE ADDED.

CLASS "M"

FJO RJP	JLS MG	2-26-88	4

FIGS H16 & H17 ADDED.REF TO SAME ADDED IN FIGS 2,3,H2, H3,H6 & H7.FIGS H2 & H3 WERE SHOWN AS "3" PHASE.

CLASS "M"

FJO RJP	JLS MG	2-26-88	5

ON SHA1,NOTE 56 ADDED.ON SHD1,REF TO J85502C ADDED IN FIGS H2 & H3 AND ASSOC TABLES.ON SHTS D2 & D3,FIGS H6,H7 & H16 & H17 RESP, WIRES COLORS ON "AC" INPUT WIRES REMVD.

CLASS "M"

RJP	JLS MG	3-18-88	6

NOTE 12 & TABLES K,L & M ADDED.IN NOTE 53,REF TO "H569-367" ADDED.ALSO THRU OUT DWG REF TO "J85502C" & "J85503B" ADDED.FIGS 37,38 , 39 & H19 ADDED.

POINT ISSUE 6.1 CLASS "M"

RJP	EJW RG MG	6-20-88	7

ON SH B7,B8,B10 & B13 IN FIGS 25,26,28,30 & 35 RESP "16GA" DES ADDED TO WIRES.ON SH B8 & B13,FIGS 28 & 35 RESP "KS-21225,L4 LINE CORD" READ "KS-22010,L103 PATCH CORD".ON SH B7 AT (S1) SW, TERM 1,"BL" WIRE "FROM FIG 30" ADDED.ON SH B8,FIG 28 "20 GA" WIRE DES ADDED TO WIRES FROM (CB-) TERMS 8 & 9

POINT ISS 7.1
CLASS "M"

RJP	EJW MG	9-16-88	8

ON SH B3,FIG 8,HB APP READ "L132".
MDD85500NJ-31 CLASS "M"

RJP AAH	EJW MG	5-19-89	9

(CONTINUED)

POWER SYSTEMS
LINEAGE ® 2000 CHARGE & DISCHARGE CKT
24 OR 48 VOLT
400 AMPERES MAXIMUM

DIST CODE RM10
22 SHEETS

DWG SIZE	ISSUE
C2	12

AT&T | NJ | T-82649-30 | SHEET A1

ENGINEERING NOTES

51-SEE SHEET INDEX FOR DRAWING FROM WHICH THIS DRAWING IS MADE.

52-CONNECTING DRAWINGS:
(NONE)

53-EQUIPMENT ARRANGEMENT:
J85300C-1, ED-83182-30, ED-81386-30, H569-367, J855018-1, ED-83188-30, H-285-224, ED-82947-30, ED-83215-30

54-SEE NOTE 302 OF SD-82649-01 ON ASSIGNMENT OF FUSE LOCATIONS.

55-WHEN THE C.O. GRD SYSTEM IS NOT INSTALLED IN THE OFFICE AND THE RECTIFIER IS ASSOCIATED WITH:

A. AN ESS DEDICATED POWER PLANT HAVING AN INSULATED DISCHARGE GROUND BUS, THE CONDUCTOR SHALL BE CONNECTED TO THE GROUND WINDOW, IF NEARER, OR TO THE SAME GROUND POINT(I.E. WATER PIPE) THAT THE ESS GROUND WINDOW BUS IS GROUNDED TO OR

B. A NON-ESS POWER PLANT, THE CONDUCTOR SHALL BE CONNECTED TO THE POWER PLANT DISCHARGE GROUND BUS.

WHEN MORE THAN ONE RECTIFIER BAY REQUIRES GROUNDING, A SINGLE CONDUCTOR MAY BE MULTIPLIED TO GROUND ALL RECTIFIER BAYS. (PER ATTP-802-001-18).

56-THE LINE ENGINEER SHALL INSTRUCT THE INSTALLER, WHEN USING KS-20785 ARMORED CABLE OR KS-5482-01 WIRE FOR AC INPUT WIRING TO THE RECTIFIERS, TO MARK THE POWER CONDUCTORS AS REQUIRED PER ARTICLE 310-12 OF THE NATIONAL ELECTRIC CODE.

57-IF A 2APAC6500297 SWITCH IS BEING ORDERED AS A REPLACEMENT FOR A 339622-L SWITCH, AN ED-83182-30 GROUP G MUST BE ORDERED.

76-MODIFICATION OF SD-82649-01 CONSISTS OF CONSIDERING CHANGES PER LDI ISS 2A SCHEDULED FOR SD OFFICIAL ISSUE 3B.

TABLE K

T-DWG FIG	FEATURE		CODE	USED WITH J85300C	USED WITH H569-367
1	XCS CONTROLLER WITH ORDER WIRE		J855018-1	YES	YES
1,3B					YES
1,H1	WITH MODEM			YES	
3,9,H3,H13	25,50 & 125 AMP RECTIFIER (1 PHASE)	-24V	J85502 SERIES	YES	
3,10,H3,H13		+24V		YES	
2,8,H2,H13		-48V		YES	
2,8,39,H2					YES
3,9,H3,H17	100 & 200 AMP RECTIFIER (3 PHASE)	-24V	J85503 SERIES	YES	
3,10,H3,H17		+24V		YES	
2,8,H2,H16		-48V		YES	
7,16,H7,H13	100 AMP RECT (3 PHASE)	-48V	J87437A	YES	
6,14,H6,H13	100 AMP RECT (3 PHASE)	-24V	J87436A	YES	
6,15,H6,H13		+24V		YES	
20,HE	LOW VOLTAGE DISCONN		ED-83186-30 GRP 2	YES	
21,H8,H9	FUSE PANEL		ED-83182-30 GRP 1	YES	YES
22,23,H9,H10			ED-83182-30 GRP 2 & H	YES	
22,24,H9,H10			ED-83182-30 GRP 2 & J	YES	YES
25,26,H9,H12	CKT BREAKER PANEL		ED-83182-30 GRP 3 WITH GRP K TO AF, GRP AJ TO AL	YES	
36,H9,H18			ED-83182-30 GRP 6	YES	
27,28,H9			ED-83182-30 GRP 4 WITH GRPS AP TO BD	YES	
27,35,H9			ED-83182-30 GRP 4 WITH GRPS BE TO BL	YES	
31	CAP PANEL		ED-83182-30 GRP 5	YES	
29,HD,H13	PLANT BUS ASSEMBLY		J85500C-1 LIST A	YES	YES
30	CAP CHARGE CKT		ED-83188-30 GRP 1	YES	
34,H14	CONTROL PANEL		ED-82947-30 GRP 10	YES	
32,33	BOOST CHARGE CKT		ED-83215-30 GRP 1 & A	YES	
			ED-83215-30 GRP 1,A & B		YES
37,H19	ALARM INTERFACE		ED-83227-30 GRP 1		YES
HA	DC BATTERY SUPPLY	+24V	KS- 12 CELLS	YES	
HB		-24V			
HC		-48V	KS- 24 CELLS		YES
H15	C.O.GROUNDING SYS		———	YES	YES

TABLE L

820A SWITCHBOARD CABLE COLOR CONVERSION CHART	
OLD PAIR COLORS	NEW PAIR COLORS
BL1W/BL2W	W-BL/BL-W
O1W/O2W	W-O/O-W
G1W/G2W	W-G/G-W
BR1W/BR2W	W-BR/BR-W
S1W/S2W	W-S/S-W
BL1R/BL2R	R-BL/BL-R
O1R/O2R	R-O/O-R
G1R/G2R	R-G/G-R
BR1R/BR2R	R-BR/BR-R
S1R/S2R	R-S/S-R

LINEAGE 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	A2	11	C2

FIG 1
XCS CONTROLLER
FOR 24 OR 48 VOLT
POWER PLANTS

FIG 2
-48 VOLTS
25AMP,50AMP OR 125AMP RECT
(SINGLE PHASE) OR
100AMP OR 200AMP RECT
(3 PHASE)

TO FIG 29
(SEE OTHER BRKT)

FROM FIG 39
(H569-367 ONLY)

LW 6
KS-5482-01
OR
KS-20921
OR
KS22247,L5

1/0 FOR 125A RECT
8GA FOR 25A RECT
6GA FOR 50A RECT
2GA FOR 100A RECT
4/0 FOR 200A RECT

FR GRD

(TB1,1)
TERM BLK

(TB1,2)
TERM BLK

(TB1)
TB

(TB3)
TB

TO FIG 29

P/O (WK2) 846523611 WIRE
KIT FOR 25A RECT
846106391 PLUG-IN
CABLE ASSY FOR 50A RECT
(H569-367 ONLY)

LW 6
845562016
CABLE ASSY

CONN ONLY
WHEN FIG 20
IS NOT SPEC

(P4)
PLUG

(P1,-)
PLUG

(TB2)
TERM BLK

MATES WITH (P2A)
PLUG ON PWB

(J2A)
1-102393-8
CONN
(AMP)

26GA
SOLID

FROM FIG 8

FROM FIG 32

FROM FIG 30

FROM FIG 37
(SH 86)

FROM
FIG 20,21,22,
25,27 OR 36

MATING PLUG
& CONN

(J6)
CONN

SHOWN IN
FIG 33

MATING PLUG
& CONN

(J-)
CONN

SHOWN IN
FIGS 8,9,10,
14,15 & 16

FROM FIG 20

PART OF
J855018-1
CONTROLLER

(CM2)
205A,205A1
OR 208A CKT MOD
PRINTED WRG BD

PART OF -48 VOLT
J85502A,J85502B,J85502C OR
J85503A OR J85503B RECT

"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT & T	NJ	T-82649-30	B1	10	C2

FIG 3
+24 OR -24 VOLTS
25AMP,50AMP,125AMP RECT
(SINGLE PHASE) OR
100AMP OR 200AMP RECT
(3 PHASE)

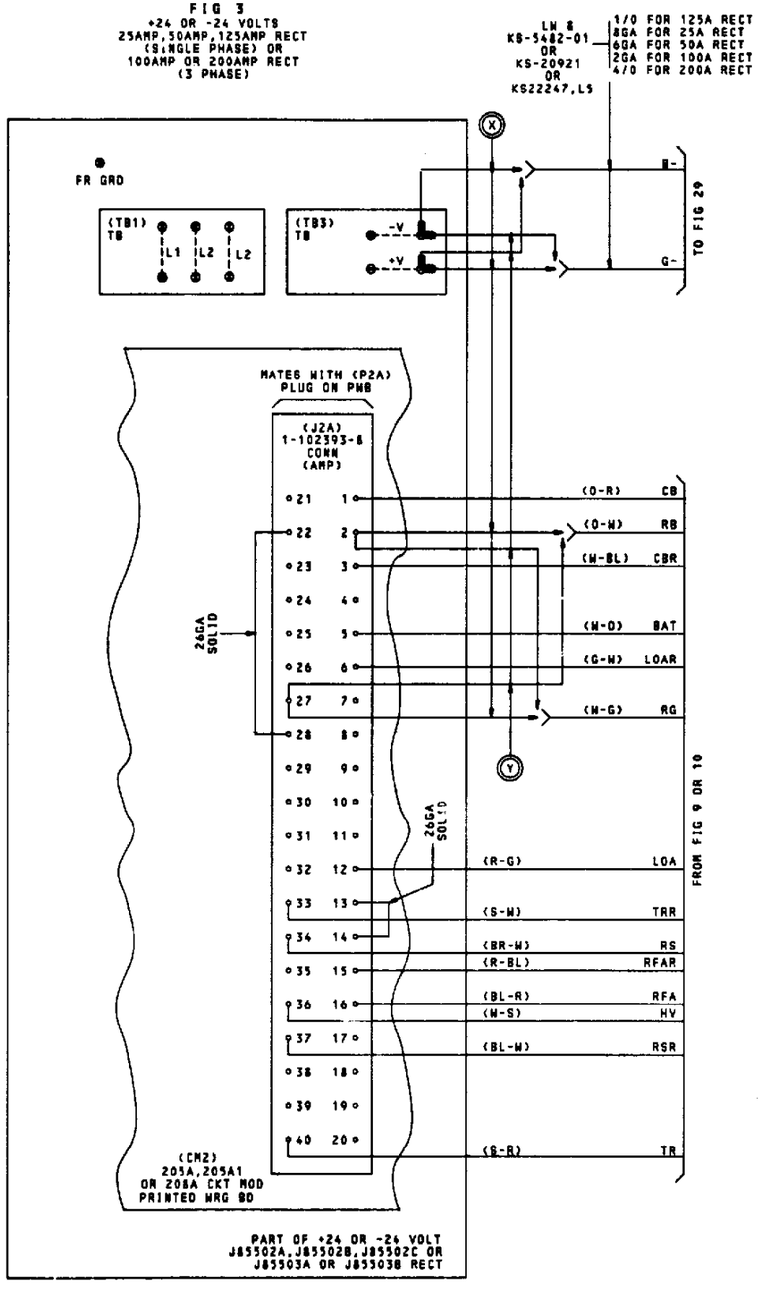


FIG 6
+24 OR -24 VOLT
100 AMP
3 PHASE RECTIFIER

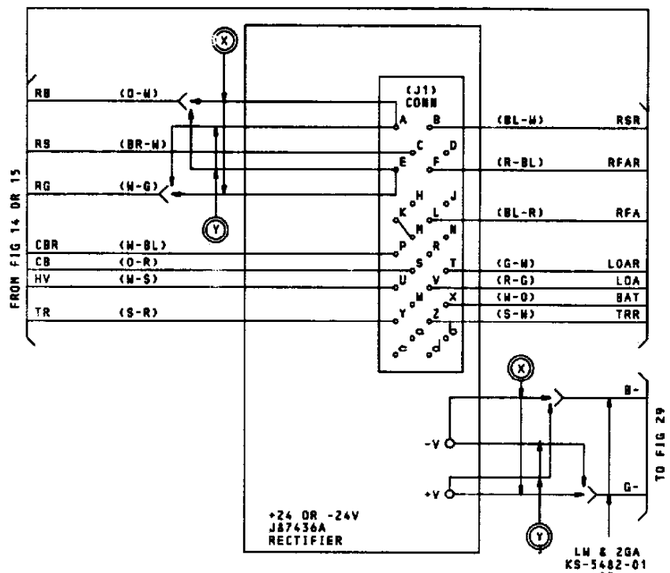
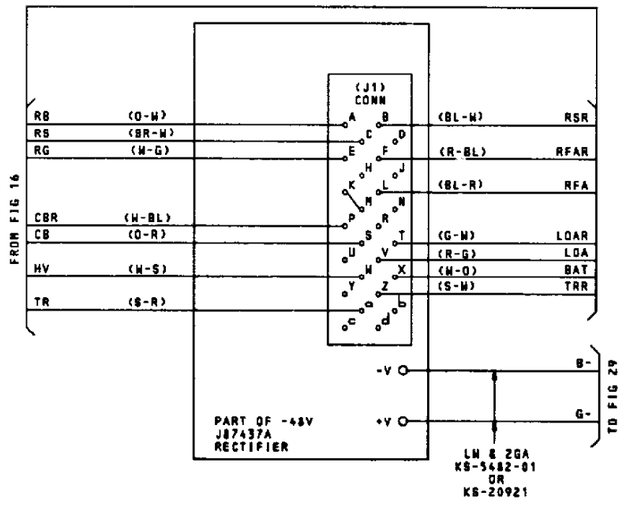


FIG 7
-48 VOLT
100 AMP
RECTIFIER



"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	RJ	T-82649-30	82	7	C2

FIG 8
-48 VOLT
CONN ASSY

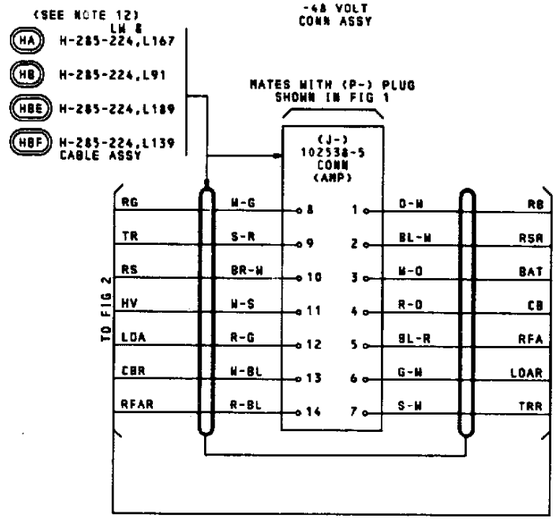


FIG 9
-24 VOLT
CONN ASSY

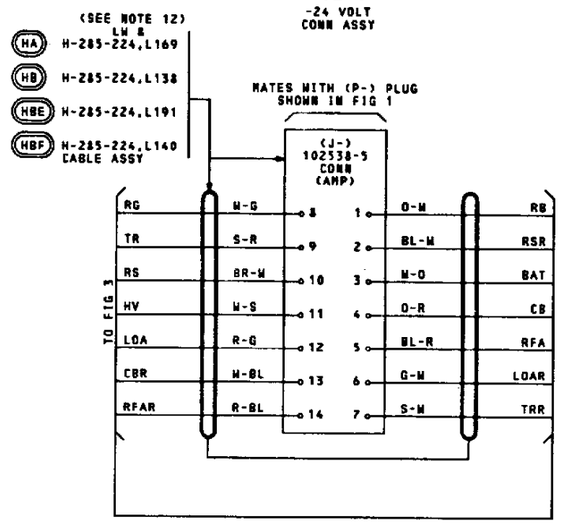


FIG 10
+24 VOLT
CONN ASSY

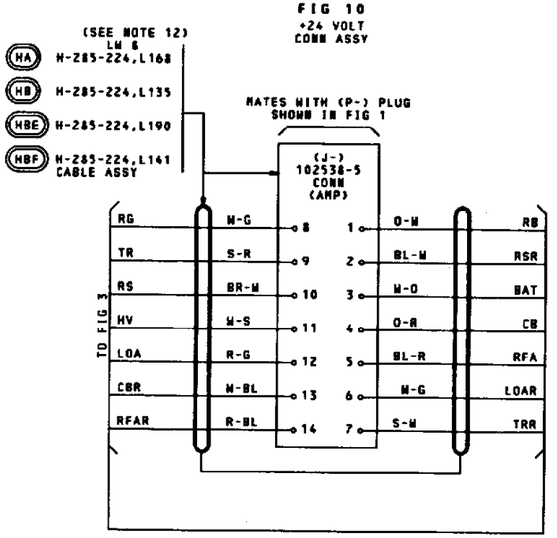


FIG 14
-24 VOLT
CONN ASSY

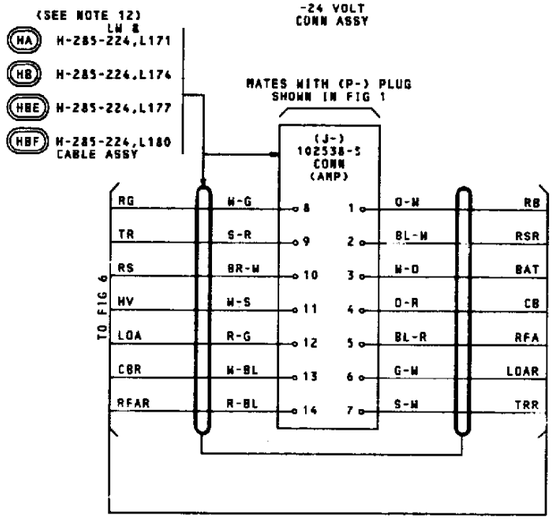


FIG 15
+24 VOLT
CONN ASSY

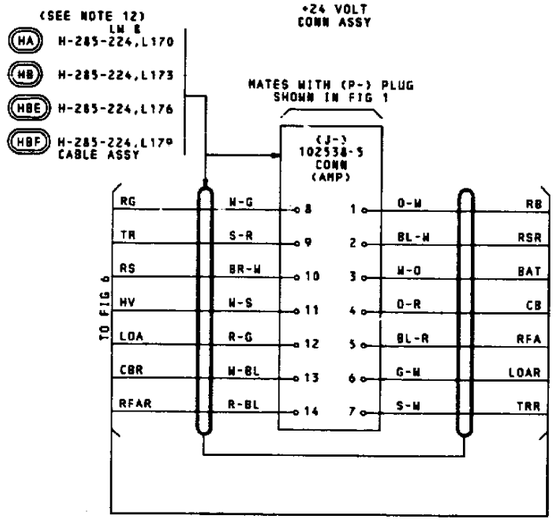
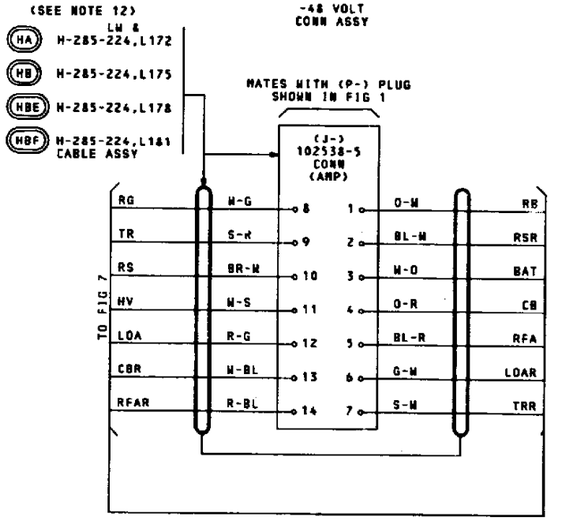
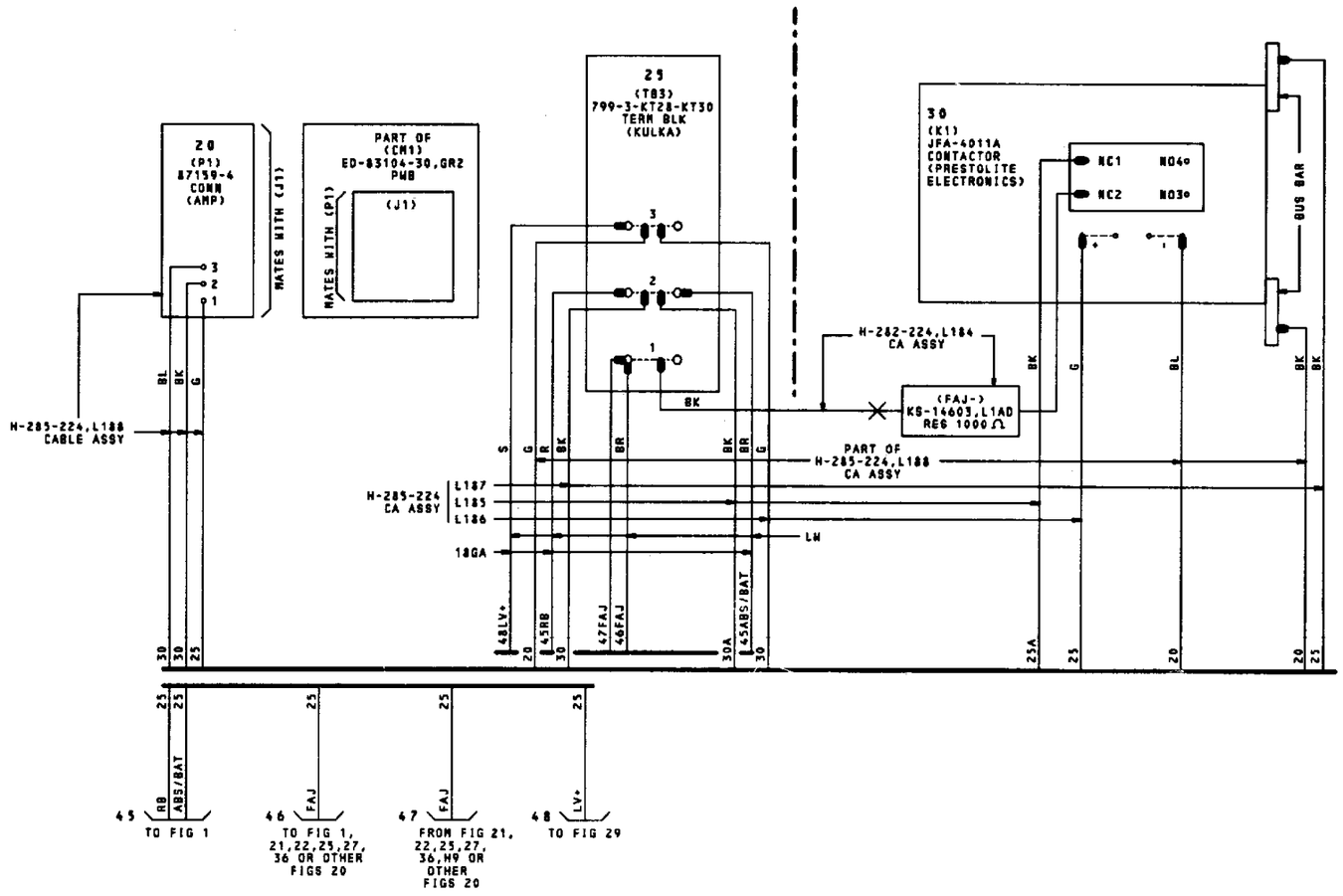


FIG 16
-48 VOLT
CONN ASSY



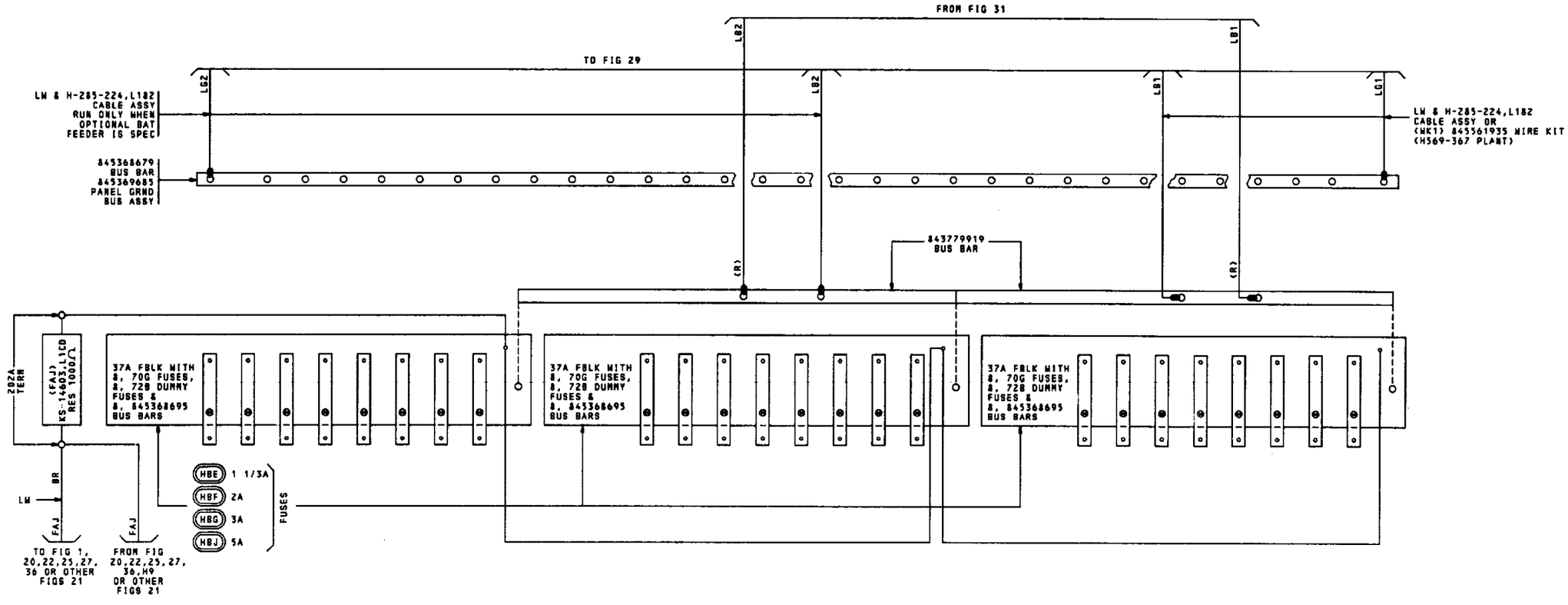
"LINEAGE" © 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	B3	9	C2

FIG 20
ED-83186-30,GR 2
LOW VOLTAGE BAT
DISCONNECT CKT



"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-36	B4	J	C2

FIG 21
LOAD
DISTRIBUTION
PANEL
ED-83182-30,GR 1



"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	85	7	C2

FIG 22
ED-83182-30,GR 2
(USED WITH
ED-83182-30,GR H OR J)

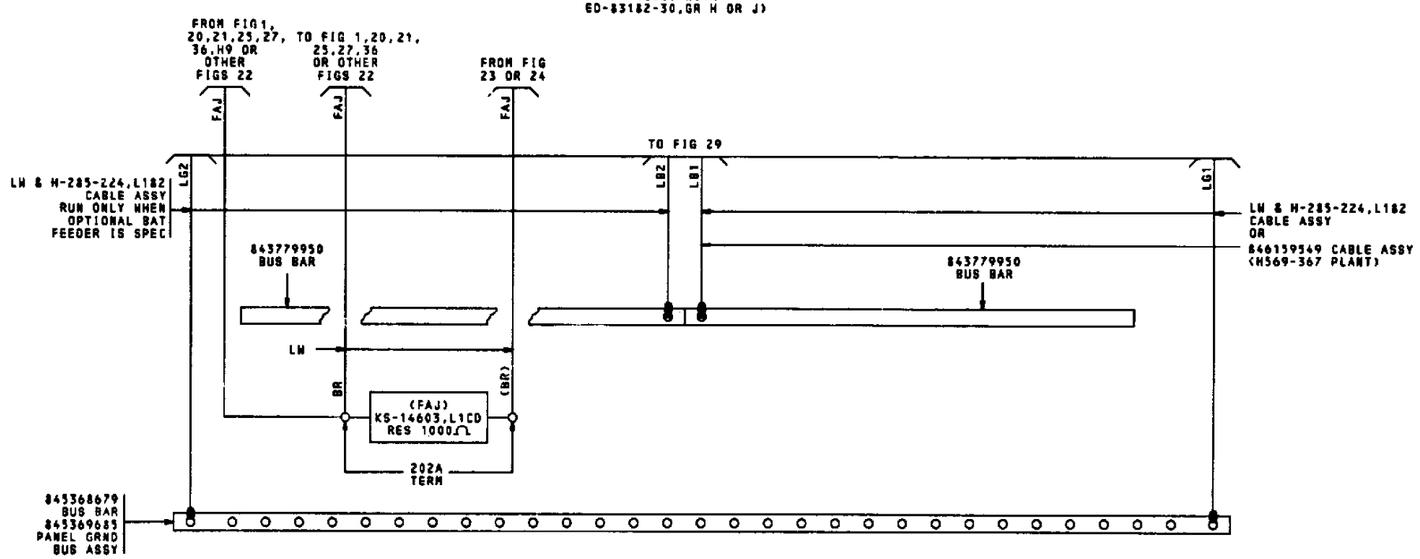


FIG 23
FUSE PANEL
ED-83182-30,GR 2 & H

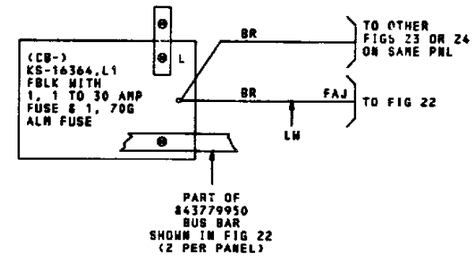


FIG 24
FUSE PANEL
ED-83182-30,GR 2 & J

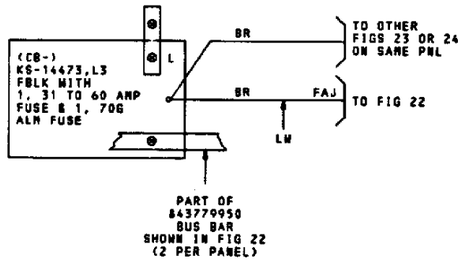
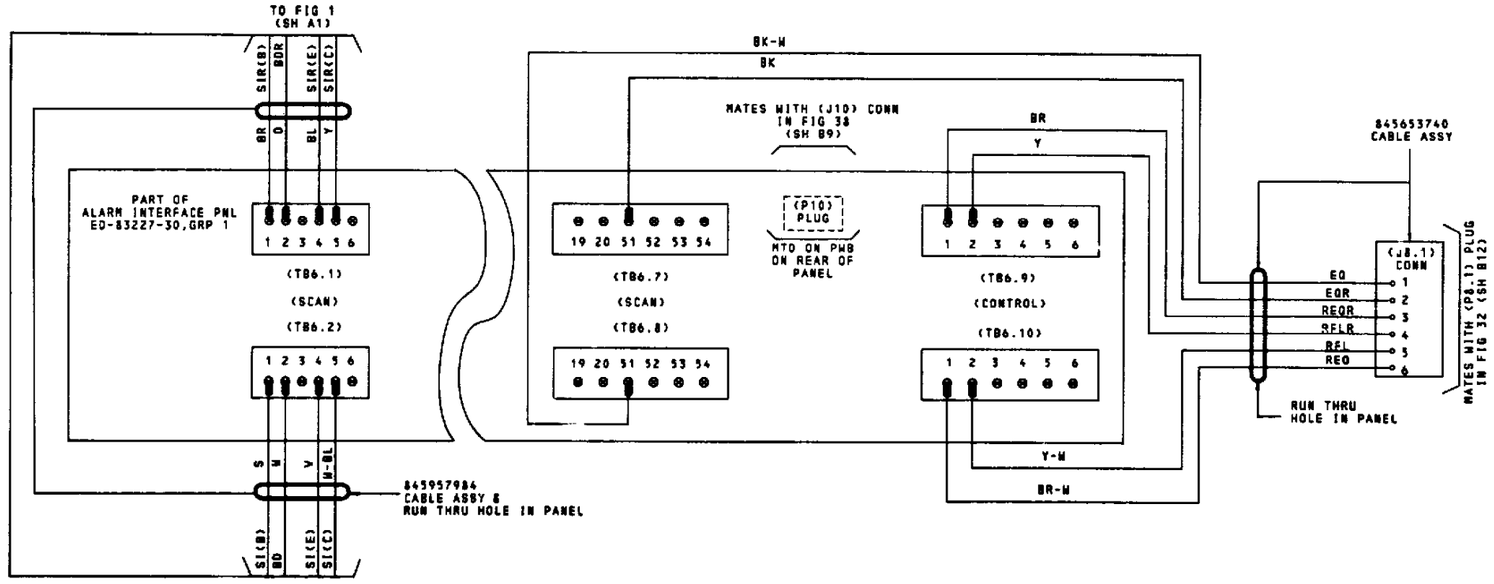
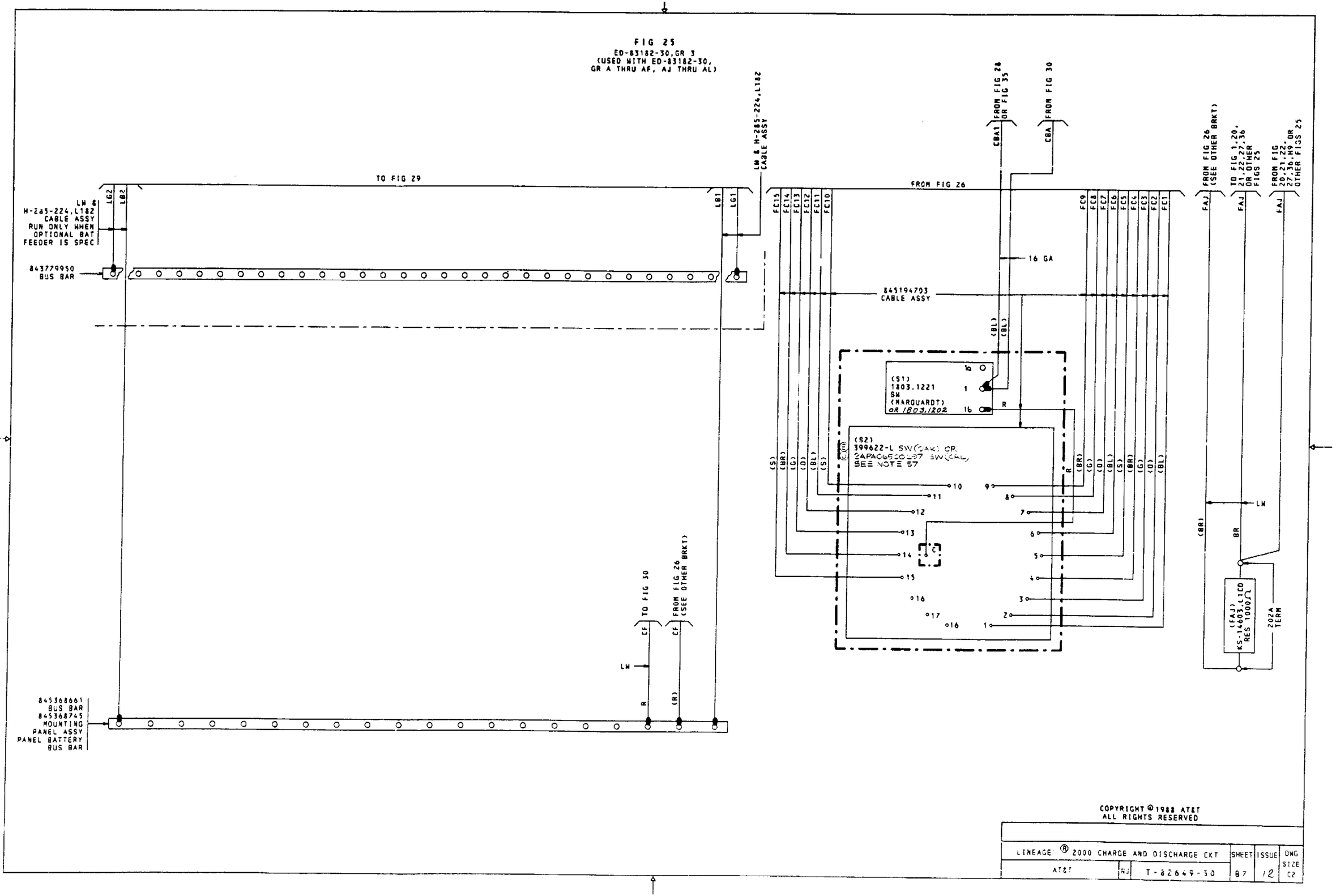


FIG 37
ALARM INTERFACE PANEL
ED-83227-30,GRP 1
(H-569-367 ONLY)



"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	B6	7	C2

FIG 25
ED-83182-30,GR 3
(USED WITH ED-83182-30,
GR A THRU AF, AJ THRU AL)



LINEAGE ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	87	12	D2

FIG 26
ED-83182-30,
GR K THRU AF
& AJ THRU AL
(USED WITH
ED-83182-30,GR 3)

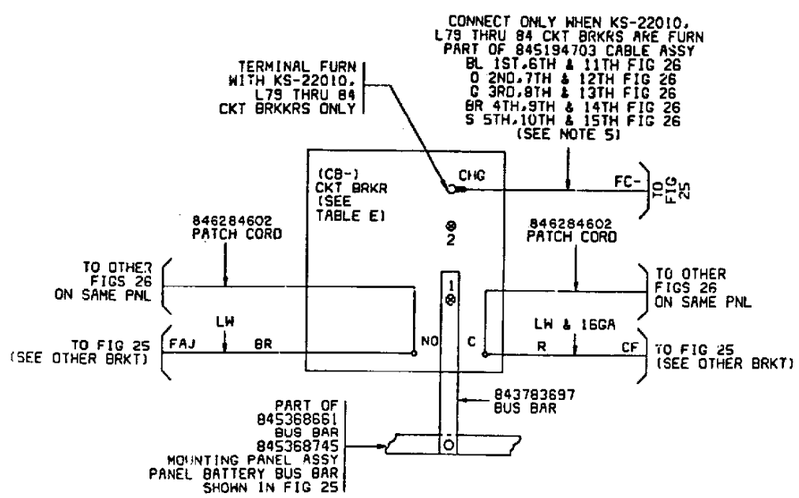


TABLE E (USED WITH FIG 26)			
OPT	CKT BRKR	LIST	AMP RATING
HM	KS-22010	87	5
HN		88	10
HP		89	15
HQ		90	20
HR		91	25
HS		92	30
HT		93	35
HU		94	40
HV		95	45
HW		96	50
HX		97	60
HY		98	70
HZ		99	80
HAA		86	90
HAB		85	100
HAC		79	5
HAD		80	10
HAE		81	15
HAF		82	20
HAG		83	25
HAH		84	30
HAJ	CFI-Z74-1 (HEINEMANN)		40
HAK	CFI-Z75-8 (HEINEMANN)		100
HAL	CFI-Z75-14 (HEINEMANN)		

TABLE F (USED WITH FIG 28)			
OPT	CKT BRKR	LIST	AMP RATING
HAP	KS-22012	11	100
HAQ		12	110
HAR		13	125
HAS		14	150
HAT		15	175
HAU		16	200
HAV		17	225
HAW		1	100
HAX		2	110
HAY		3	125
HAZ		4	150
HBA		5	175
HBB		6	200
HBC		7	225
HBD	GJI-Z34-15 (HEINEMANN)		175

FIG 27
COMMON EQUIPMENT
ED-83132-30, GR 4

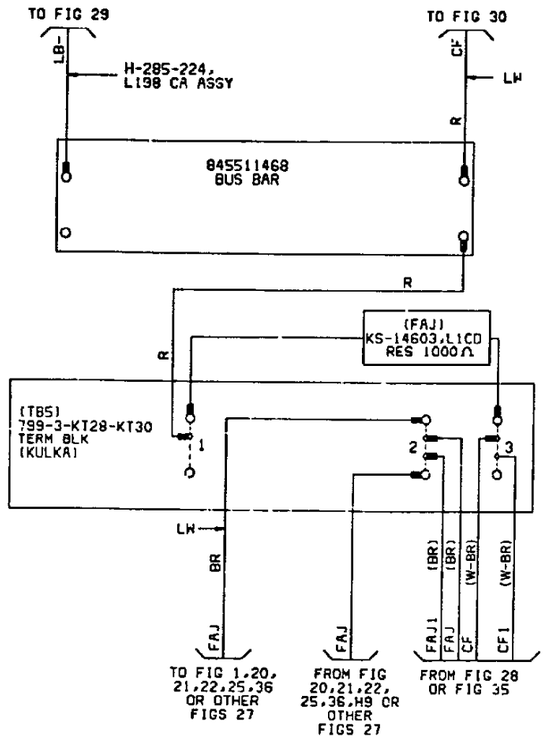
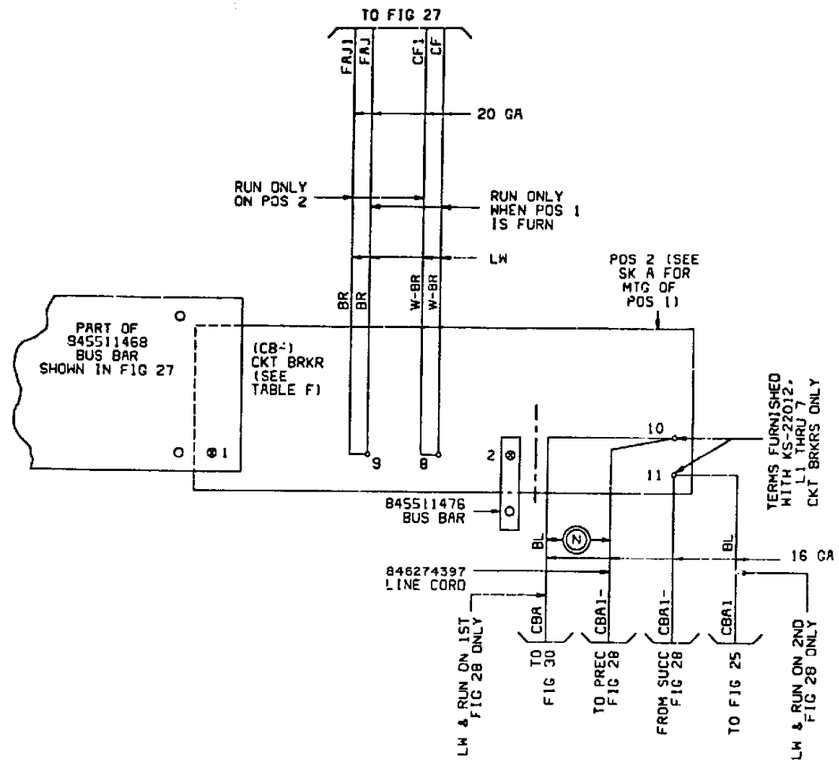
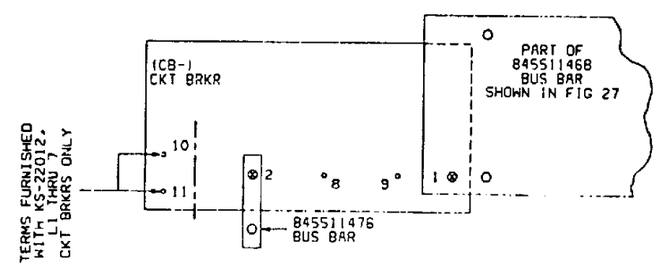


FIG 28
ED-93182-30,
GR AP THRU BD
(USED WITH
ED-83182-30,GR 41)



SK A
MOUNTING OF
CKT BRKR
FOR POS 1



"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	88	10	D

FIG 29

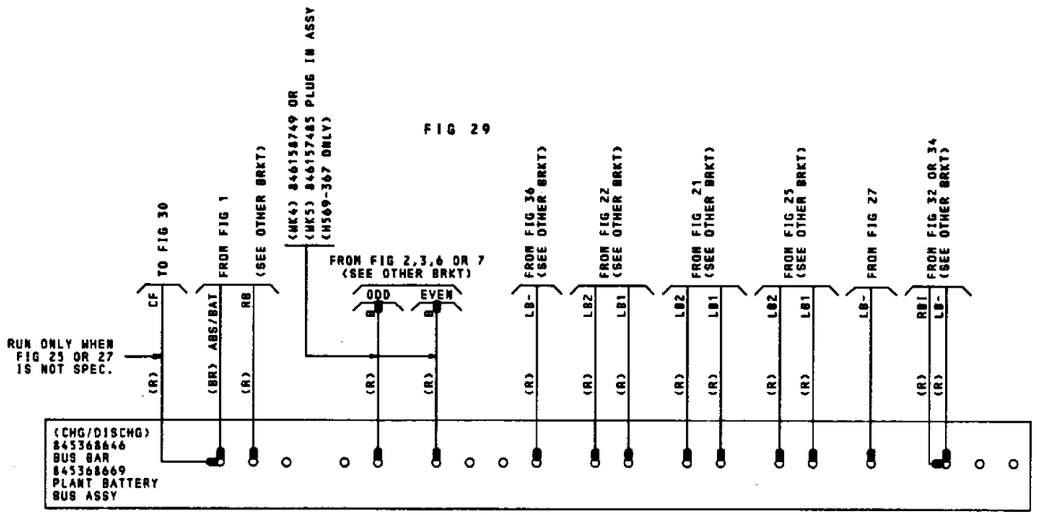
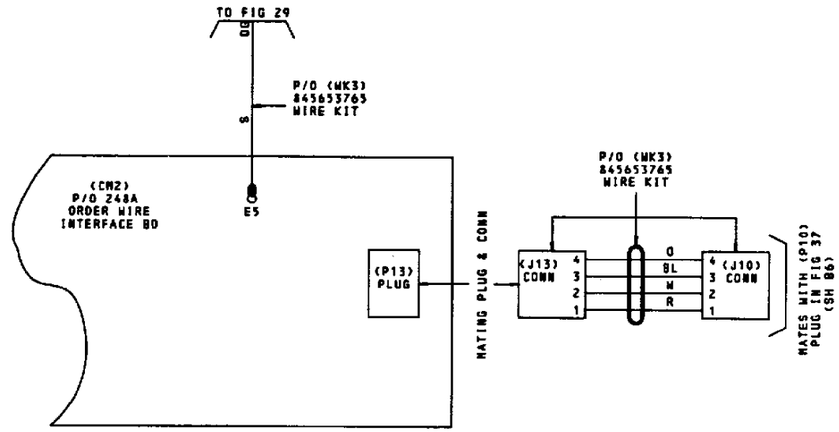
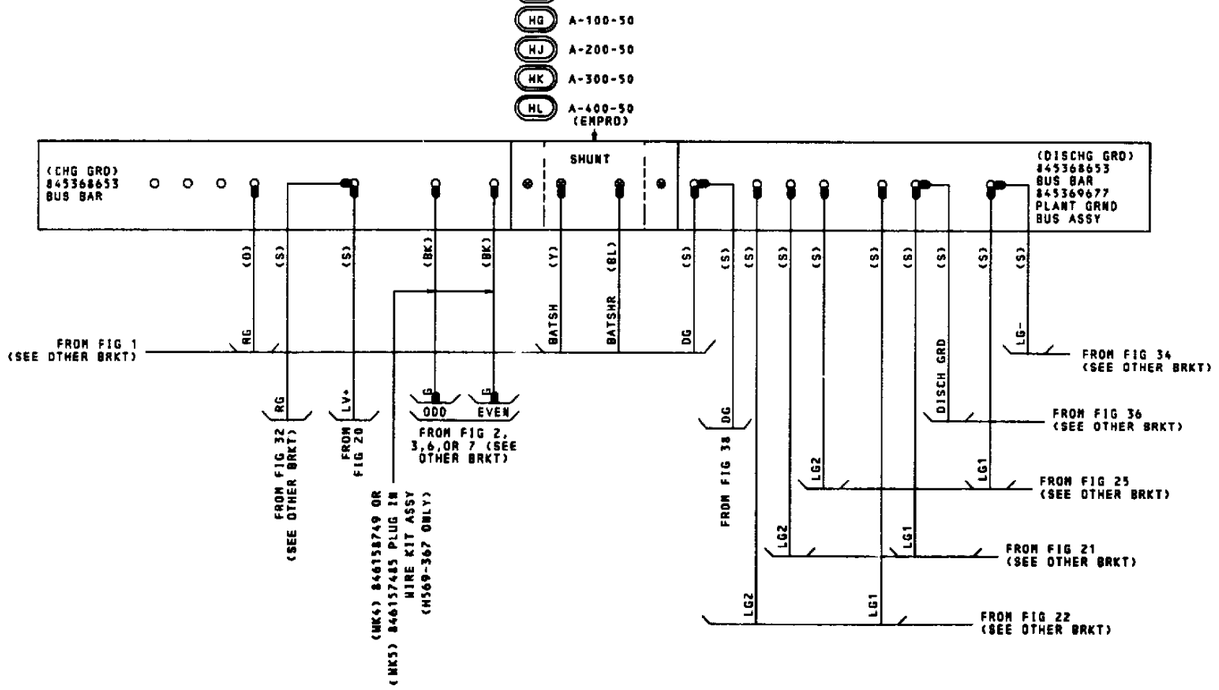


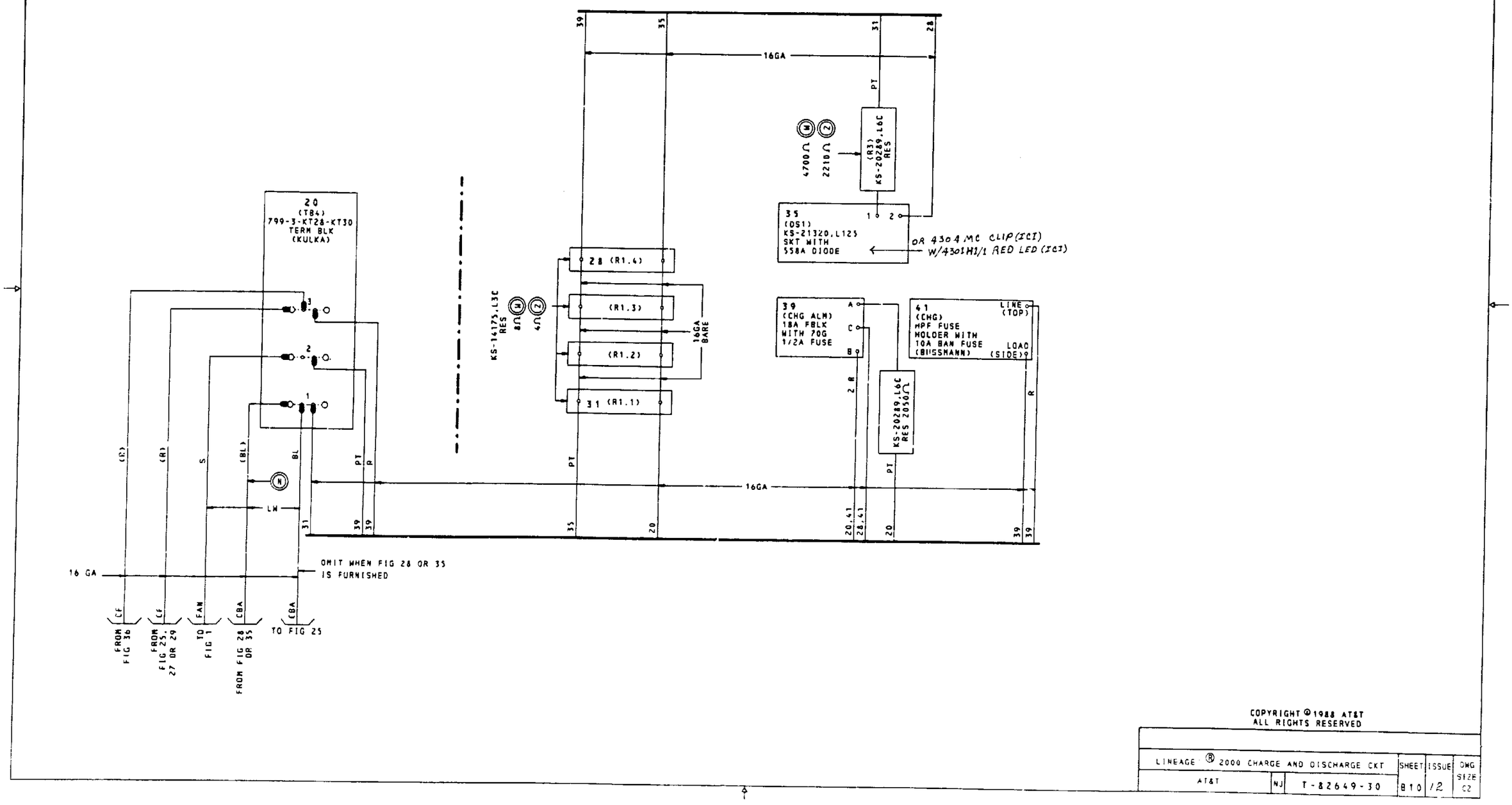
FIG 38
P/O ORDER WIRE
INTERFACE BD





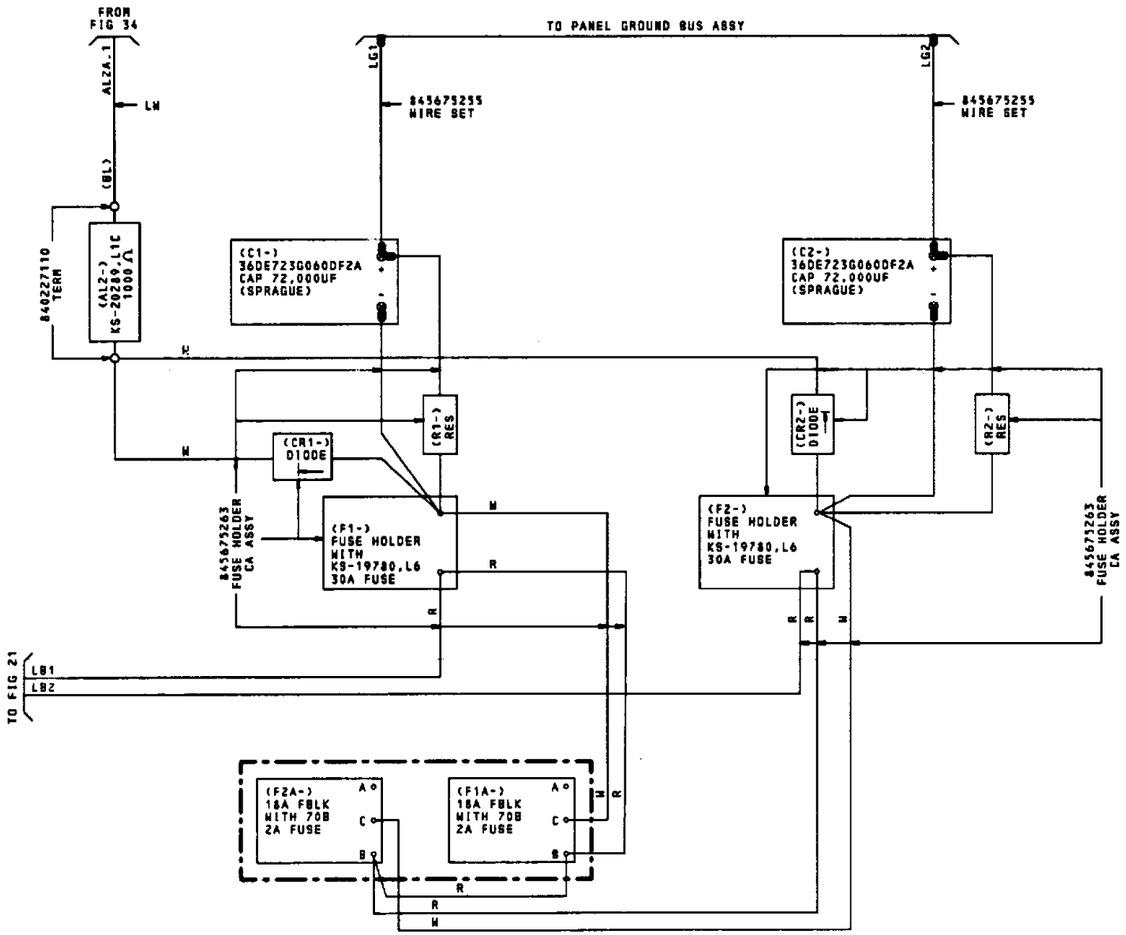
"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	89	7	C2

FIG 30
ED-83188-30,GR 1
CAPACITOR CHARGE CKT



LINEAGE ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	810	12	C2

FIG 31
CAPACITOR PANEL
ED-83182-30, GR 5



"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	B11	7	D2

FIG 32
BOOST CHARGE CKT
ED-83215-30

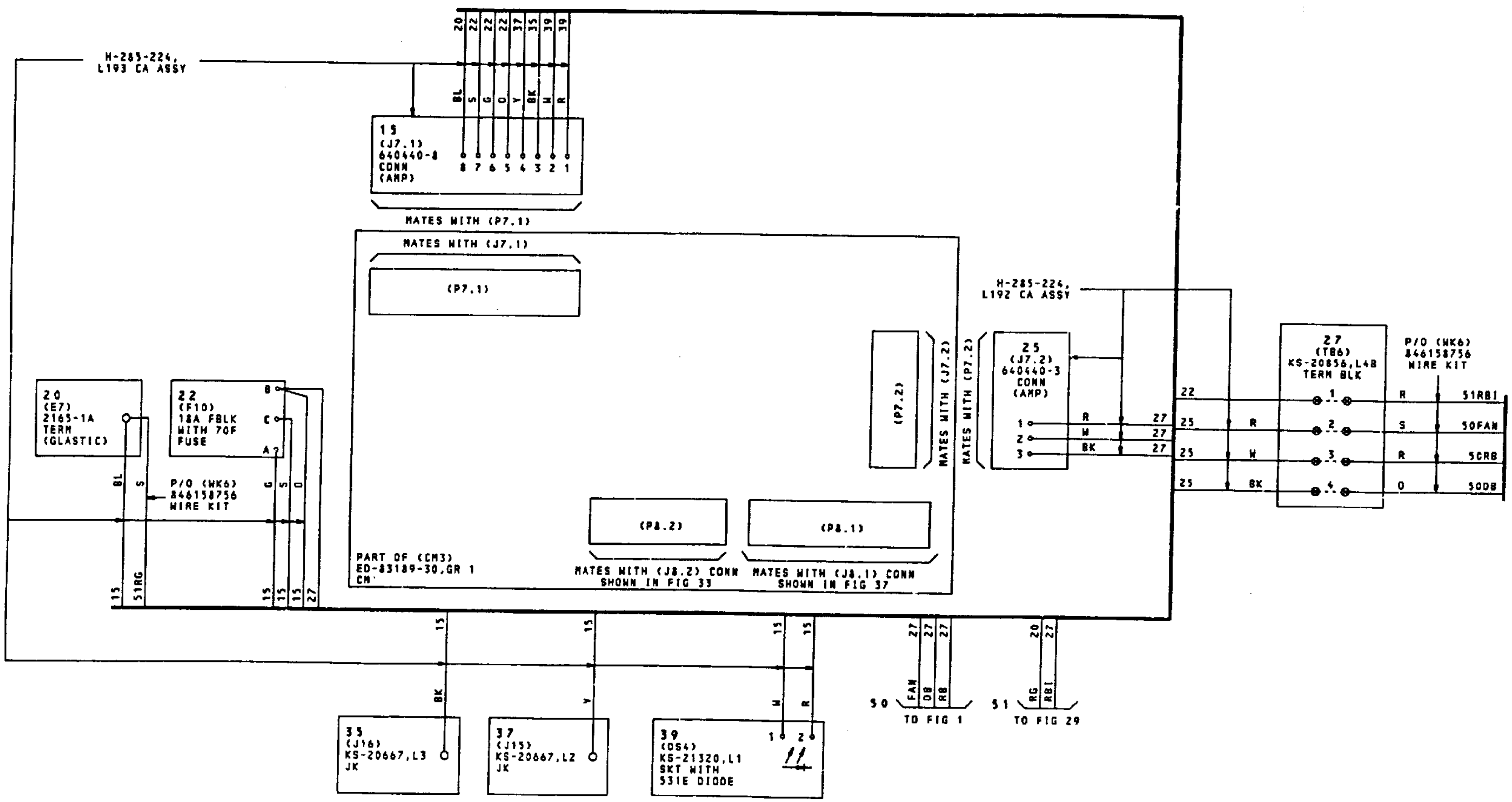


FIG 33
CONN ASSY

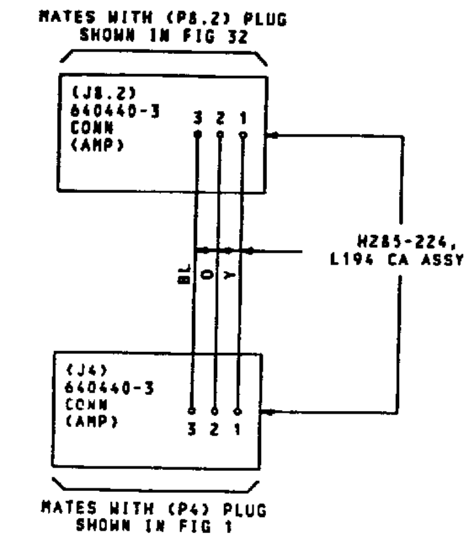
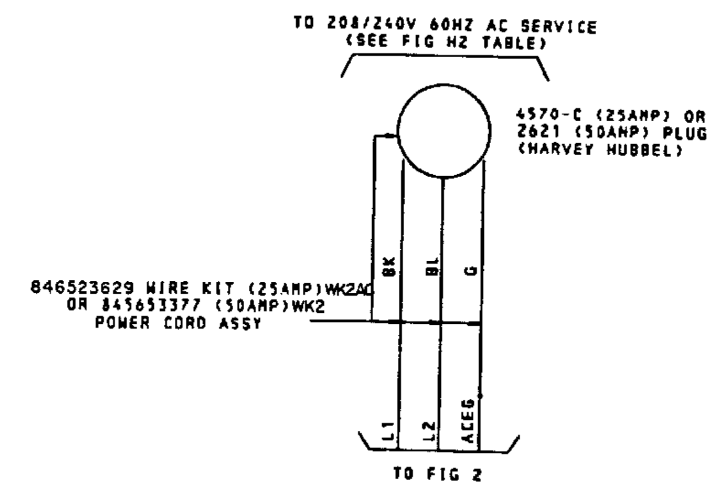
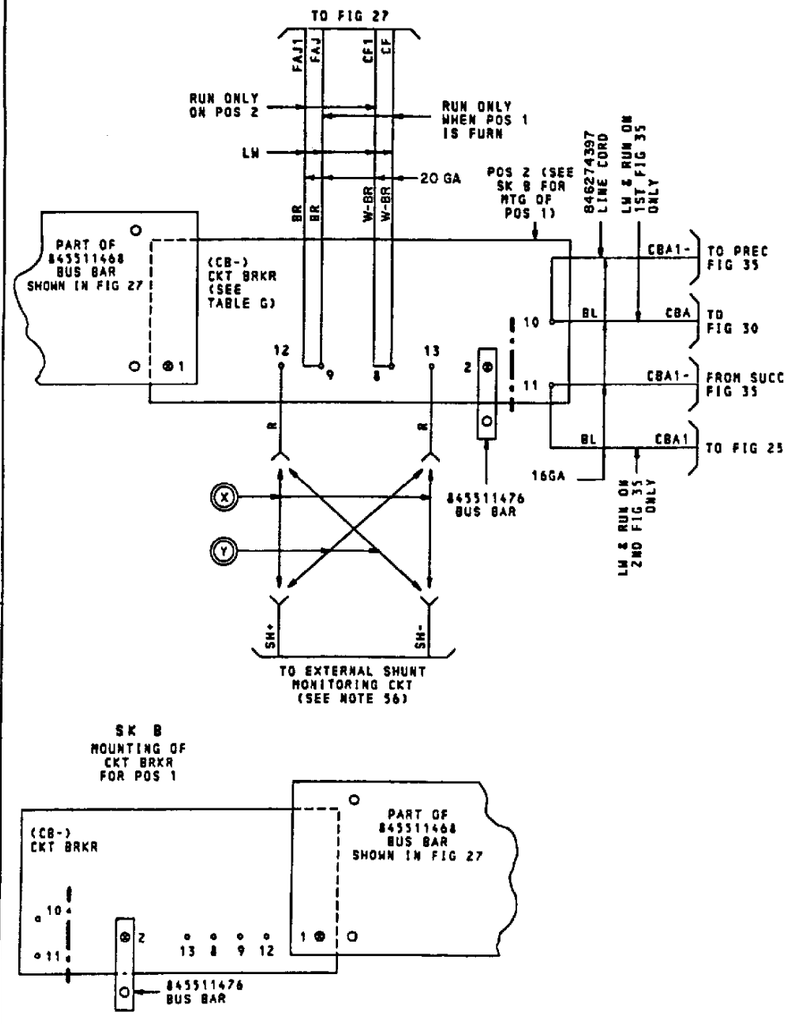


FIG 39
-48 VOLTS
(H569-367 PLANT ONLY)



"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT & T	NJ	T-82649-30	8.12	10	C2

FIG 35
ED-83182-30,
GR BE THRU BL
(USED WITH
ED-83182-30,GR 4)



SK B
MOUNTING OF
CKT BRKR
FOR POS 1

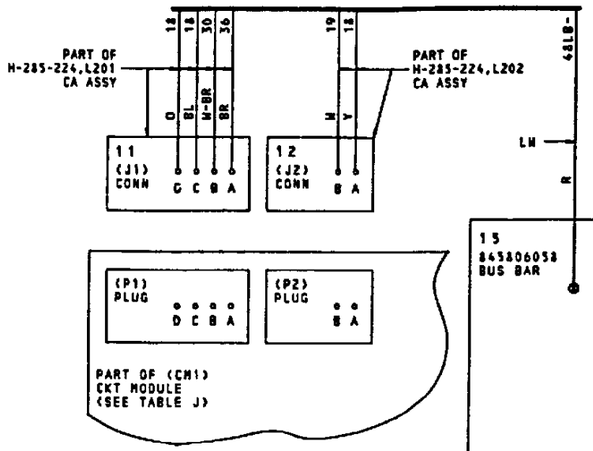
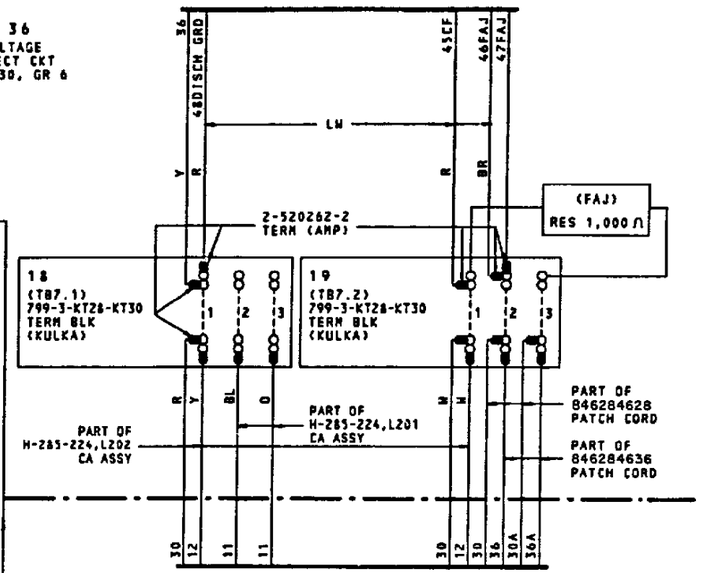


FIG 36
LOW VOLTAGE
DISCONNECT CKT
ED-83182-30, GR 6



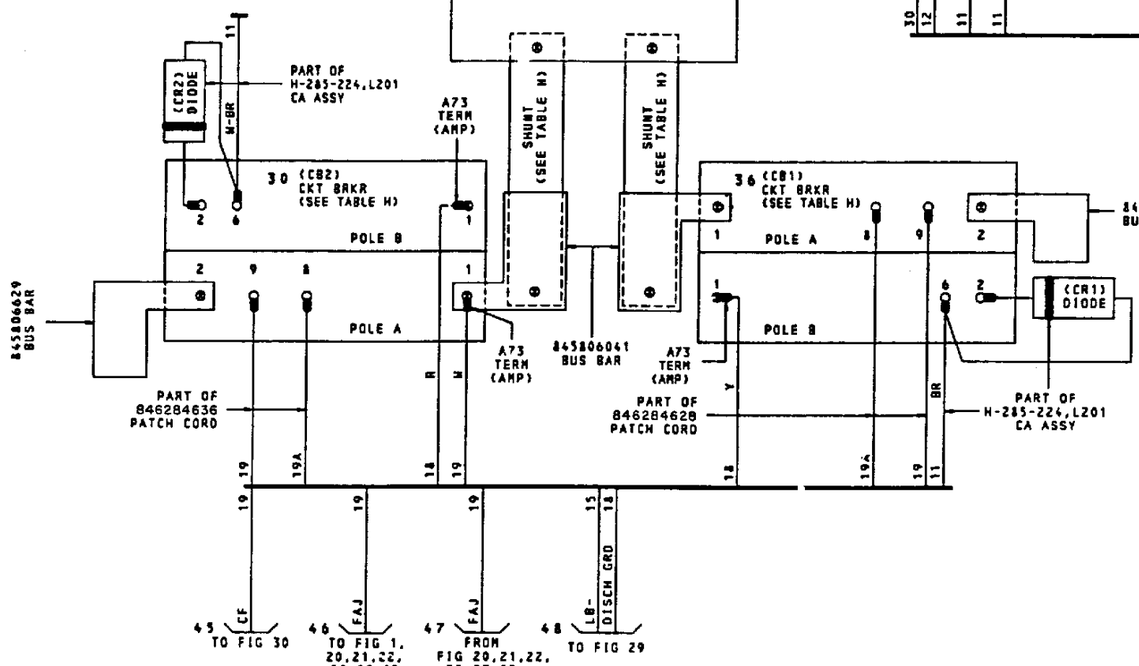


TABLE G (USED WITH FIG 35)			
OPT	CKT BRKR	LIST	AMP RATING
HBK	KS-22012,	1,104	100
HBL		2,104	110
HBM		3,104	125
HBN		4,104	150
HBP		5,104	175
HBR		6,104	200
HBS		7,104	225

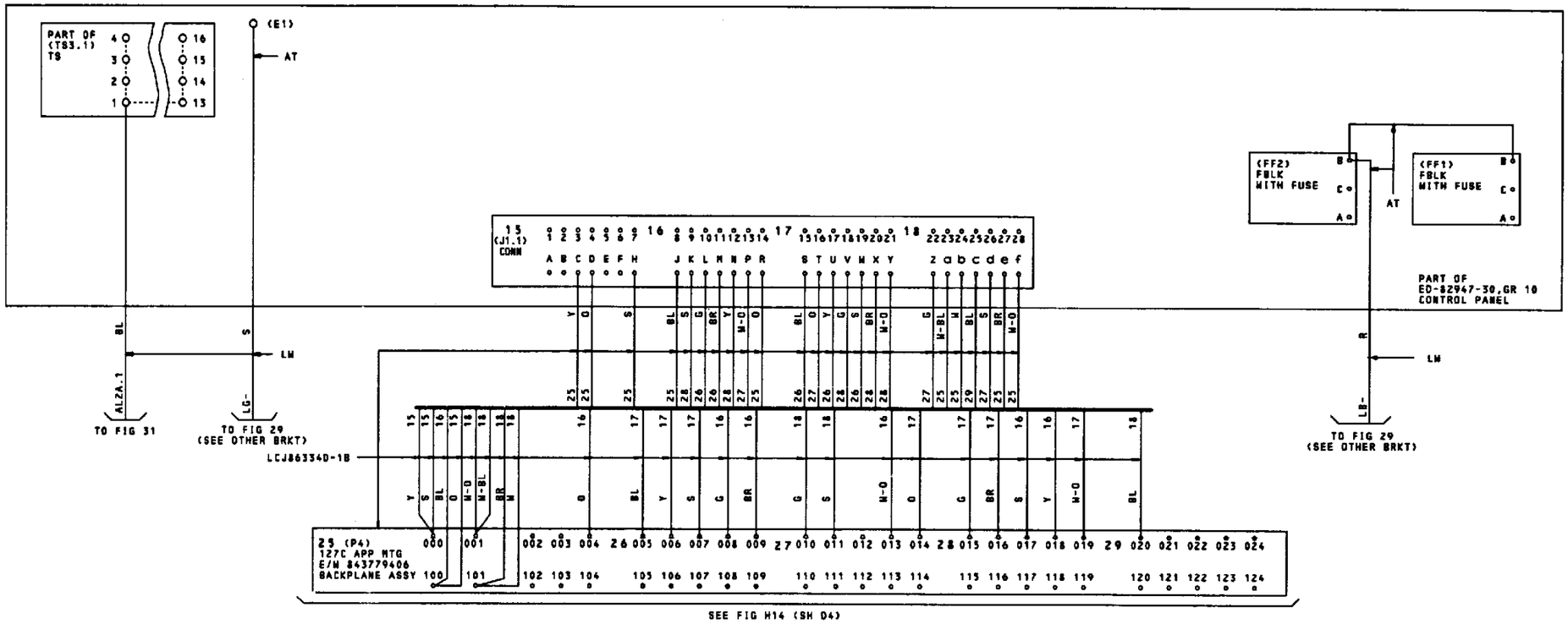
TABLE H (USED WITH FIG 36)				
OPT	CKT BRKR	SHUNT	LIST	AMP RATING
HBT	GJ2-Z10-3	1471-125-25		125
HBU	GJ2-Z10-4	1472-150-25		150
HBV	GJ2-Z10-5	1473-175-25		175
HBW	GJ2-Z10-6	1474-200-25		200
HBX	GJ2-Z10-7	1475-225-25		225
HBY	GJ2-Z10-8	1476-250-25		250
HBZ	(HEINEMAN)	(EMPRO)		

TABLE J (USED WITH FIG 36)			
OPT	CKT MODULE	LIST	AMP RATING
HCA	118A-1		
HCB	118A-2		
HCC	118A-3		
HCD	118A-4		
HCE	118A-5		

"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT

AT&T	NJ	T-82649-30	SHEET 813	ISSUE 10	DWG SIZE C2

FIG 34
CONTROL PANEL



"LINEAGE" 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	BJ	T-82649-30	814	7	C2

FIG H1
CONTROLLER

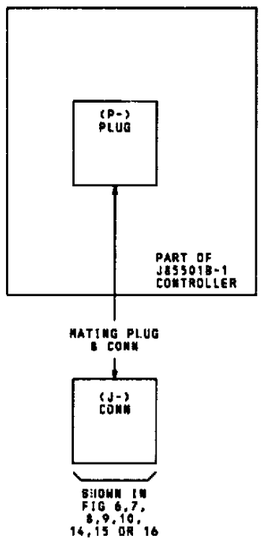
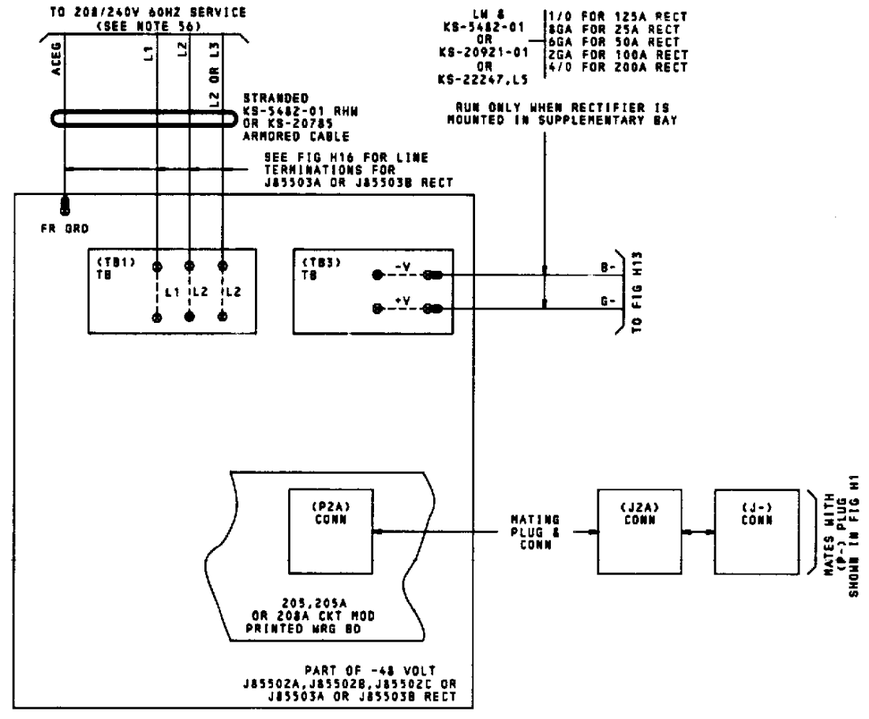


FIG H2
-48V RECT
25AMP,50AMP OR 125AMP RECT
(SINGLE PHASE) OR
100AMP OR 200AMP RECT
(3 PHASE)

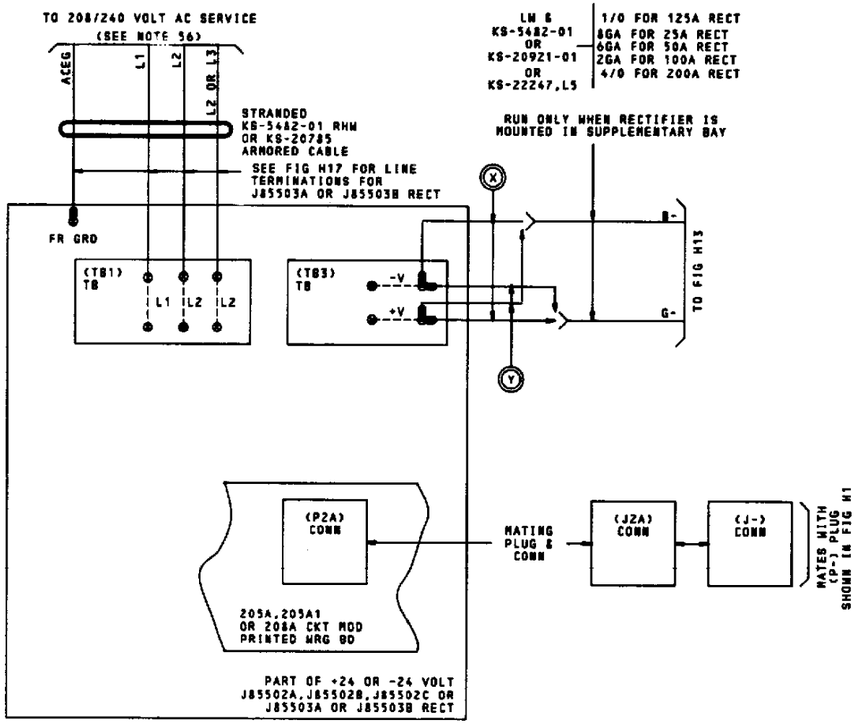


P/O FIG H2

RECTIFIER	AC INPUT	INPUT FUSE	INPUT LEADS
J85502A 48V 25A	208V	15 FN	14
	240V		
J85502B 48V 50A	208V	20 FN	12
	240V		
J85502C 48V 125A	208V	60 FM	8*
	240V	50 FM	
J85503A 48V 100A	208V	25 FRN-R	10
	240V		
	480V	15 FRS-R	14
J85503B 48V 200A	208V	50 FRN-R	6*
	240V	45 FRN-R	
	480V	25 FRS-R	10

* FR GRD LEAD TO BE 10GA IF USING KS-5482-01

FIG H3
+24V OR -24VOLT
25AMP,50AMP OR 125AMP RECT
(SINGLE PHASE)
100AMP OR 200AMP RECT
(3 PHASE)

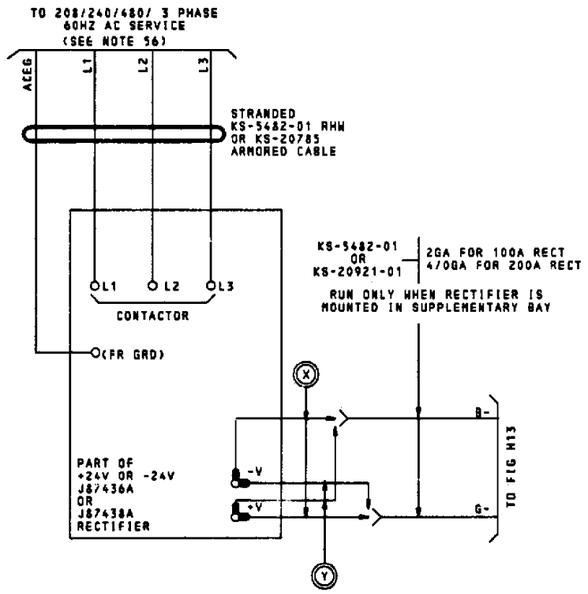


P/O FIG H3

RECTIFIER	AC INPUT	INPUT FUSE	INPUT LEADS
J85502A 24V 25A	208V	10 FN	14
	240V		
J85502B 24V 50A	208V	15 FN	12
	240V		
J85502C 24V 125A	208V	30 FN	10
	240V	25 FN	
J85503A 24V 100A	208V	15 FRN-R	14
	240V		
	480V	15 FRS-R	14
J85503B 48V 200A	208V	50 FRN-R	6*
	240V	45 FRN-R	
	480V	25 FRS-R	10

"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	01	7	C2

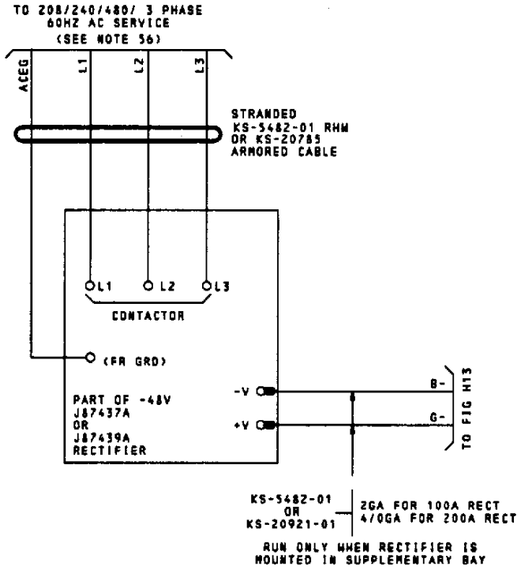
FIG H6
+24 OR -24 VOLT RECT



P/O FIG H6

RECTIFIER	AC INPUT	INPUT FUSE	INPUT LEADS
J87436A 24V 100A	208V	15A FN	12
	240V	15A FN	12
	480V	10A FN	14
J87438A 24V 200A	208V	25A FRN	10
	240V	25A FRN	10
	480V	15A FRS	12

FIG H7
-48 VOLT RECT

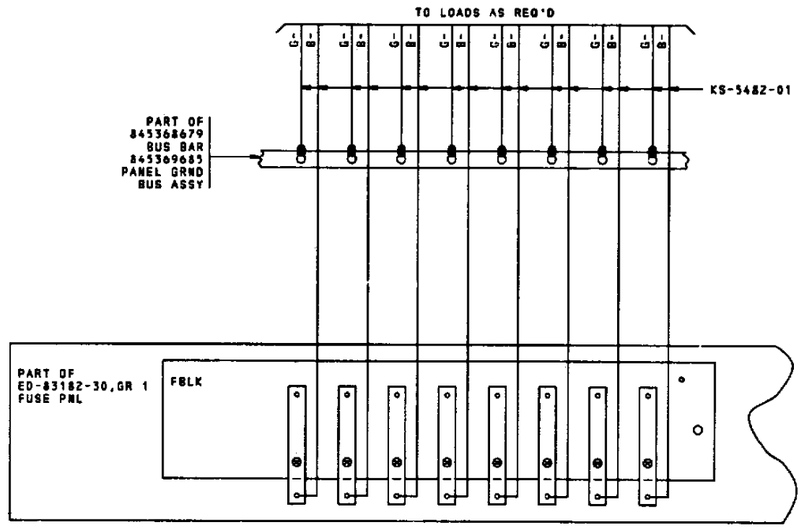


P/O FIG H7

RECTIFIER	AC INPUT	INPUT FUSE	INPUT LEADS
J87437A 48V 100A	208V	25A FN	10
	240V	25A FN	10
	480V	15A FN	14
J87439A 48V 200A	208V	50A FRN	6*
	240V	50A FRN	6*
	480V	25A FRS	10

* FR GRD LEAD TO BE 10 GA IF USING KS-5482-01

FIG H8
LOAD DISTRIBUTION
(SEE NOTE 54)



"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	D2	6	C2

FIG H9
FAJ MULT LEAD

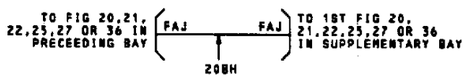


FIG H10
LOAD DISTRIBUTION
(SEE NOTE 54)

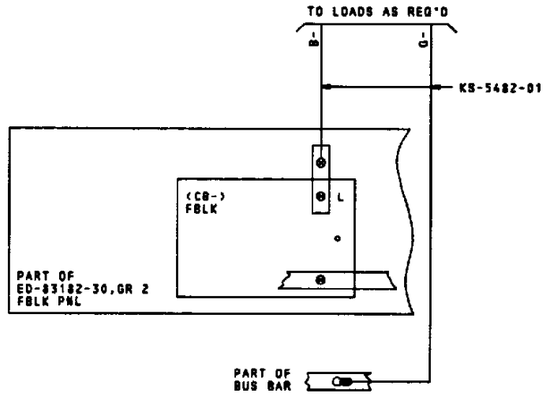


FIG H12
LOAD DISTRIBUTION
(SEE NOTE 54)

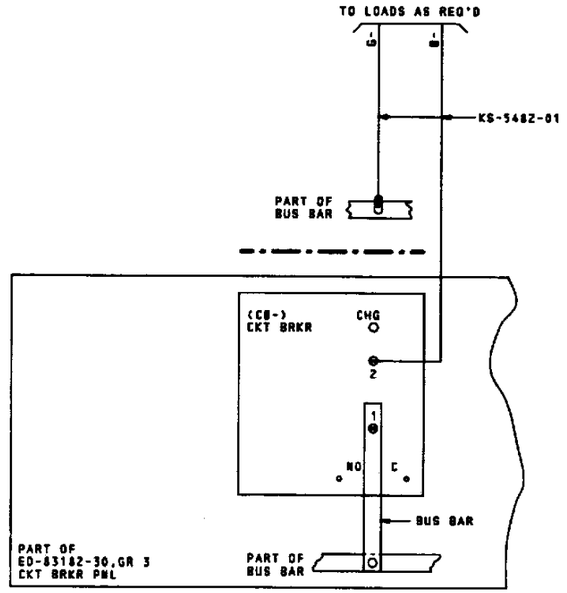


FIG H16

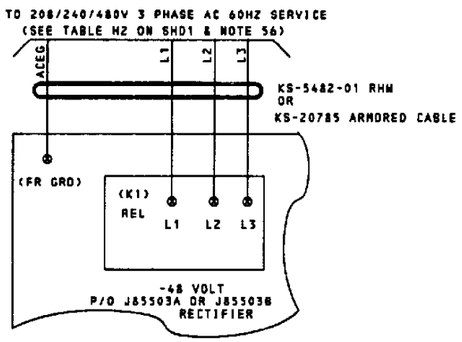
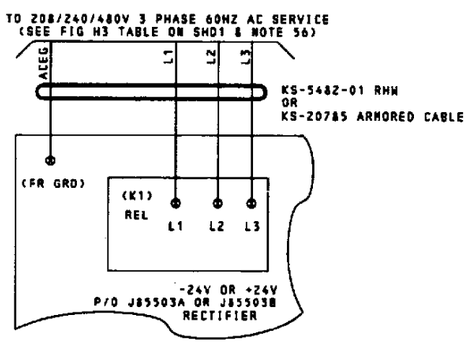


FIG H17



"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	D3	7	C2

FIG H13

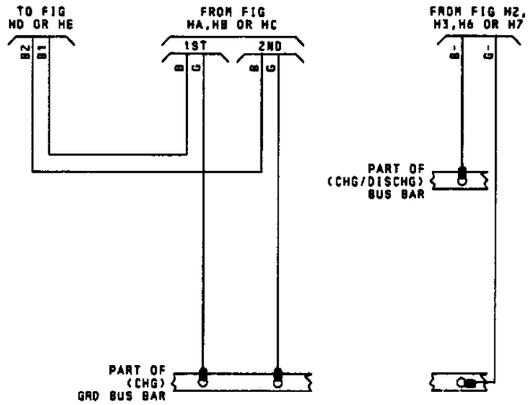


FIG H15

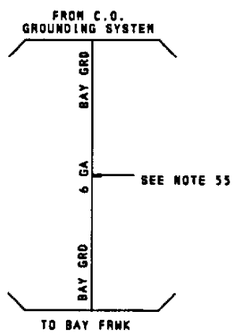


FIG HA
+24 VOLT BATTERY

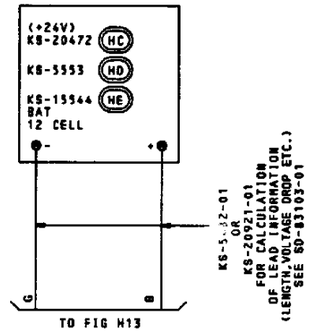


FIG HB
-24 VOLT BATTERY

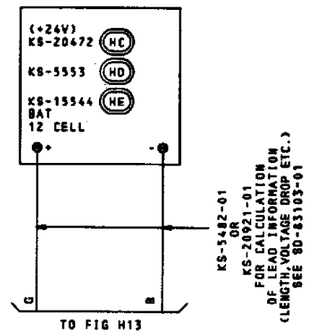


FIG HC
-48 VOLT BATTERY

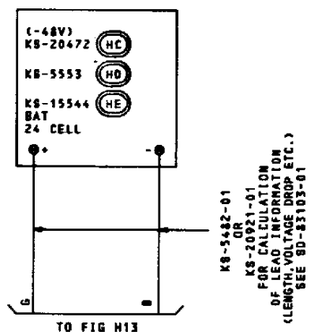


FIG H14
INSTALLERS INTERCONN

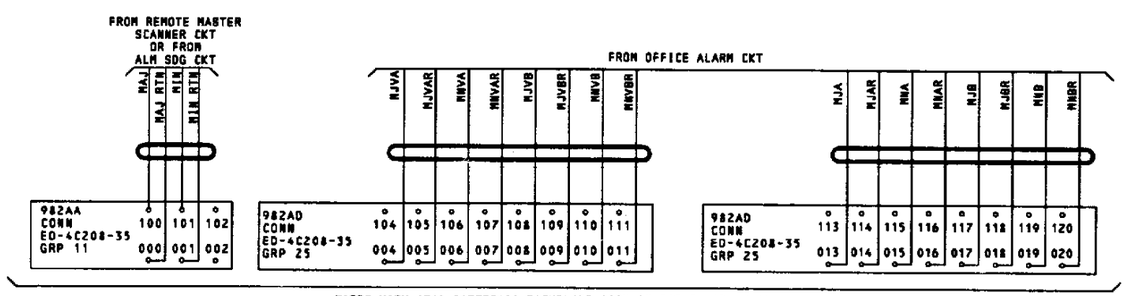


FIG HD

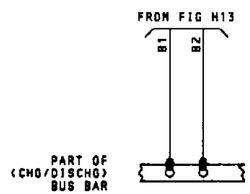
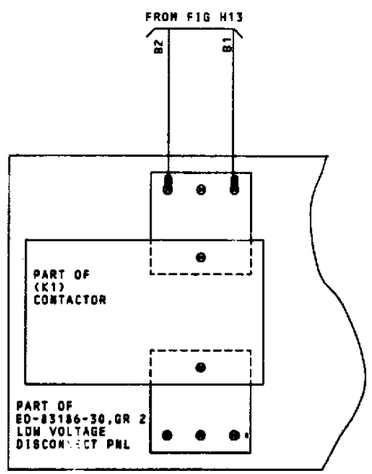
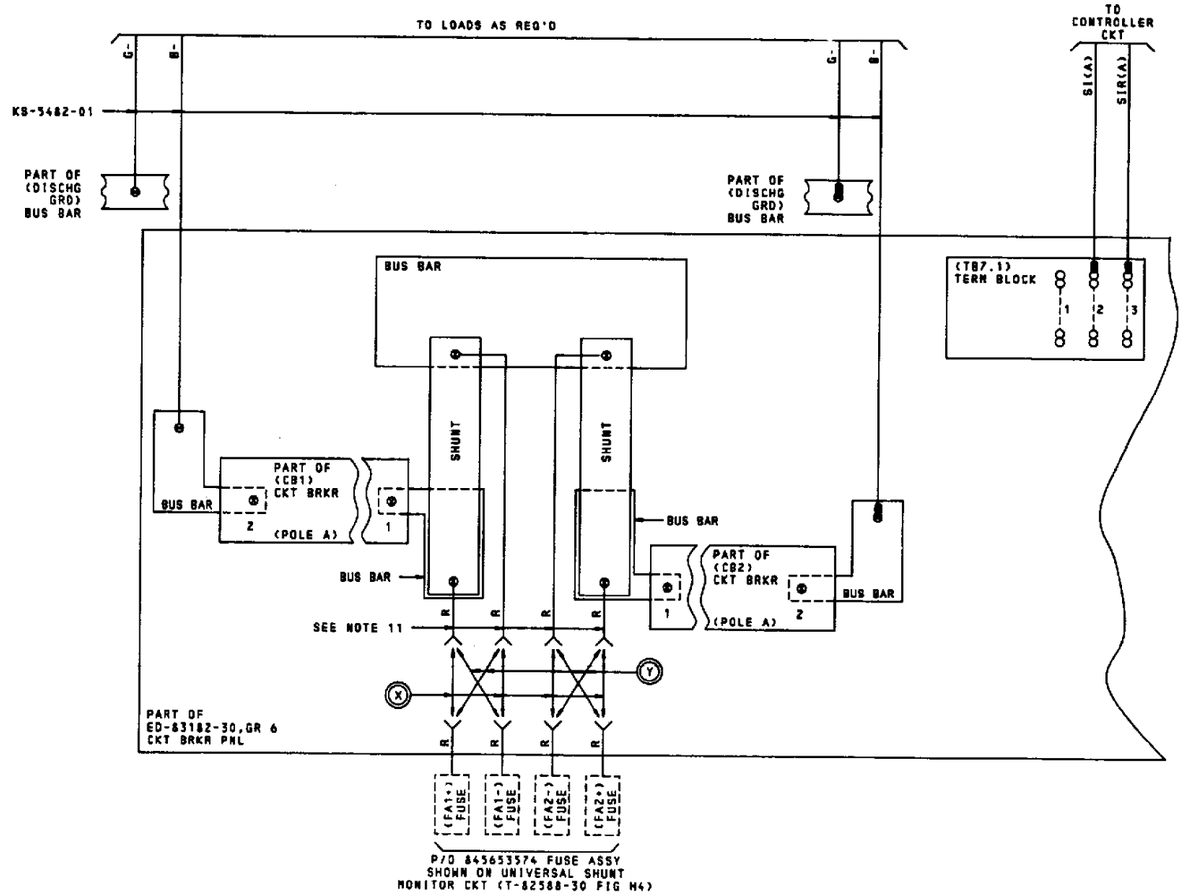


FIG HE



"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	BJ	T-82649-30	D4	7	C2

FIG H18



"LINEAGE" ® 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	MJ	T-82649-30	D5	3	C2

FIG H19
ALARM INTERFACE INTERCONN
(SEE TABLE M FOR FUNCTION ASSIGNMENTS)

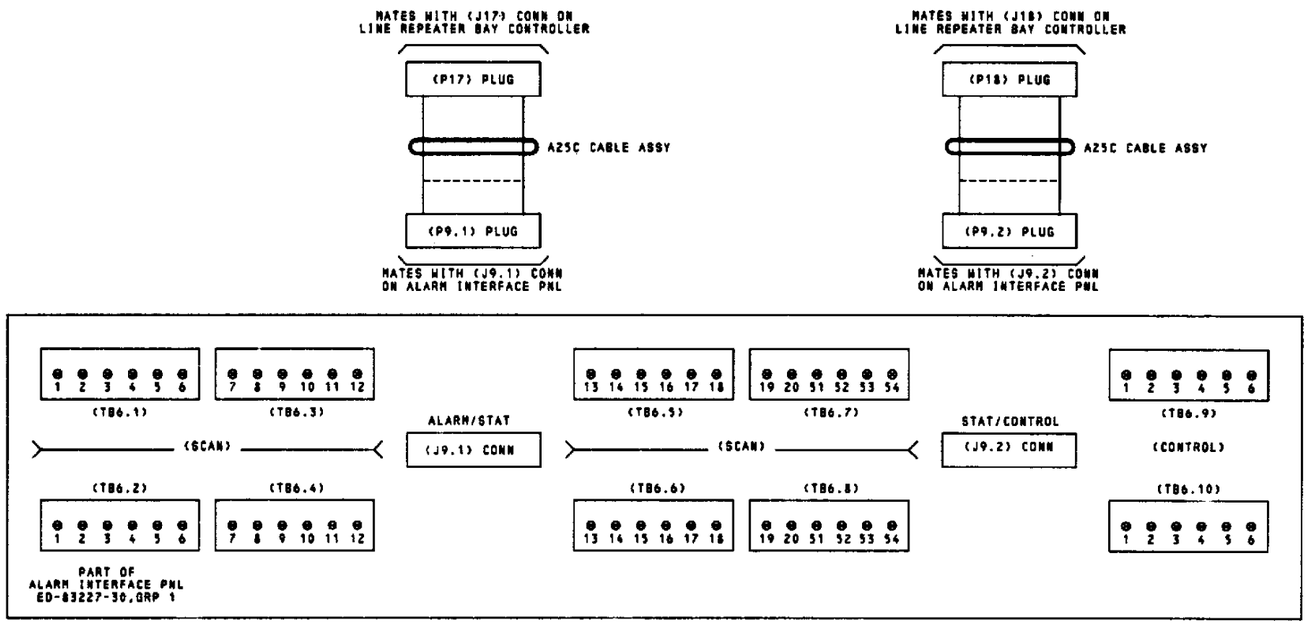


TABLE M

SCAN TERMINAL NUMBER ASSIGNMENT		
ALARM	CONTROL	FUNCTION
6	-	POWER COMMON AC FAILURE
7	-	USER-DEFINED ALARM
8	-	OPEN DOOR
9	-	LOW TEMPERATURE
10	-	HIGH TEMPERATURE
11	-	USER-DEFINED ALARM
12	-	AIR HUMIDITY
13	-	EXPLOSIVE GAS
14	-	TOXIC GAS
15	-	HIGH WATER
16	-	VENT FAILURE
17	-	USER-DEFINED ALARM
18	-	USER-DEFINED ALARM
19	-	USER-DEFINED ALARM
20	-	USER-DEFINED ALARM
52	-	USER-DEFINED ALARM
53	-	USER-DEFINED ALARM
54	-	USER-DEFINED ALARM
-	3	USER-DEFINED CONTROL
-	4	USER-DEFINED CONTROL
-	5	USER-DEFINED CONTROL
-	6	USER-DEFINED CONTROL

"LINEAGE" 2000 CHARGE AND DISCHARGE CKT			SHEET	ISSUE	DWG SIZE
AT&T	NJ	T-82649-30	D6	7	C2