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

SCHEMATIC: SD- 82605-01 — ISSUE: 1 | 1A,1B | 6Z1,U,5PRE | 5 | 6MOD | 9B | 10M | 11M | 12A

WIRING DIAGRAM — AUTO CHG: 1KY1 AH — H

SH NO.	ISSUE										
A1	1	2	3	4	5	6	7	8	9	10	11
B1	1	1	3	4	4	6	6	8	8	8	8
B2	1	2	3	4	5	6	6	8	8	8	11
B3	1	1	3	4	4	4	7	8	8	8	8
B4	1	2	3	4	5	6	6	8	9	10	10
B5	1	2	3	4	5	6	6	6	6	6	6
B6	1	2	3	4	5	6	6	6	6	6	6
B7	1	2	3	4	5	6	6	6	6	6	6
B8	1	2	3	4	5	6	6	6	6	6	6
B9	1	1	3	4	5	5	5	5	5	5	5
D1	1	1	3	4	4	6	6	6	6	6	11

ADDED: ON SHA1, NOTES 19, 63 & 64. IN FIG.1, SHB1, DESIG. KS-21320 L125 SLEEVES E/W 531A OR 531B DIODES AS OPT. "YD". KS21320 L110 SLEEVES E/W WP-90184, L5 OR L6 DIODES AS OPT. "YE". IN FIG. 1 SHB4 DESIG. MAC25A-10 AS OPT "ZW" AND T2512NK AS OPT "YF". IN FIG. 1 SHB2 & B3 DESIG. LC D AS OPT. "Q,S". ADD LC E OPT. "T". IN FIG. 1 & C, SHB2, LINED OUT 845369040 WIRE SET ADD LC E OPT. "T" 22 GA. KS-22247 L-5 S & Y. ON SHB4, AT LOC 23, ADDED "KS22247 L-5 WIRE".
POINT ISS. 7.1 AND 7.2
PDI J855038-1 ISS. DJ8 CLASS B

JCW	JCW		8

CHANGED: ON SHEET B4, LOC. G14, LINED OUT "97F5166AA6 CAPS 35MF" AND ADDED "97F9250 CAPS 35MF". LINED OUT "97F5151AA6 CAPS 50MF" AND ADDED "97F9009 CAPS 50MF"
PDI 91ESDJ0088 CLASS MF
11-12-91

	JCW		9

CHANGED: ON SHB4, LOC. G-H, LINED OUT 97F5205AA6 CAPS, ADDED 226P4435M01A2 CAPS.
92ESDJ0339 CL. MF
04-09-92

MAC JCW	HHB		10

DELETED: TB1 & ASSOCIATED WIRING
PDI 93ESDJ0674 CL A

DRN ACB	HHB	08-03-93	11

64. IF LOCAL CODES PERMIT AND THE CUSTOMER DESIRES TO CONNECT OVERHEAD AC RACEWAY TO THE RECTIFIER WITH FLEX STEEL CONDUIT, A FLEX STEEL CONDUIT KIT MAY BE ORDERED. FOR J85503B-1 L2 & L4, ORDER KIT 801327711 WHICH CONSISTS OF 17 INCHES OF 1 1/4 INCHES FLEX STEEL CONDUIT, (2) KS20786L 39 CONNECTORS & (2) KS20786 L114 INSULATING BUSHINGS. FOR J85503B-1 L1,L3,L5 & L6, ORDER KIT 801327729 WHICH CONSISTS OF 17 INCHES OF 3/4 INCH FLEX STEEL CONDUIT, (2) T&B 3116 CONNECTORS, (2) T&B 3707 REDUCING WASHERS & (2) T&B 223 INSULATING BUSHINGS.

76. MODIFICATION OF SD-82605-01 CONSISTS OF ADDING CHANGES PER LDI ISSUE 6A.

ENGINEERING NOTES

51. SEE SHEET INDEX

52. CONNECTING DRAWINGS

CHARGE & DISCHARGE CKT	T-82603-30
	T-82104-30
PLANT CONTROL CKT	T-82588-30
REMOTE ACCESS CKT	SD-82645-01

53. EQUIPMENT ARRANGEMENT J89503B-1

54. SPECIFY FIGURES & OPTIONS AS FOLLOWS:

DC OUTPUT	FIG 1 WITH OPTION	OUTPUT FILTER (STANDARD)	ADDITIONAL OUTPUT FILTER	POLARITY OF OUTPUT: NEGATIVE GROUND	POLARITY OF OUTPUT: POSITIVE GROUND	DIGITAL VOLT METER
24V	V	FIG D	FIG E	FIG K & FIG HA	FIG N & FIG HB	FIG 5
48V	W	FIG F	FIG G			

55. SPECIFY FIGURES & OPTIONS AS FOLLOWS:

60HZ INPUT VOLTAGE	FIG.	(FIG 1) OPTION
208	A	S
240	B	Q
480	C	T

56. IN FIG H1, AC WRG INPUT SHALL BE CALCULATED BY USING SD-82605-01, NOTES 308 & 313,

57. CO GROUNDING SHALL BE IN ACCORDANCE WITH SD-82605-01 NOTE 314.

58. SEE NOTES 12, 17 & 18.

59. SEE J89503B-1, TABLE R FOR OPTIONS REQUIRED IN FIG 2.

60. THIS RECTIFIER CONNECTS TO VARIOUS CONTROLLERS VIA CABLE ASSEMBLIES PER H-289-224, L( ) SHOWN ON INDIVIDUAL PLANT SCHEMATIC.

61. FOR THE DC OUTPUT LEADS, THE RECTIFIER IS EQUIPPED WITH CONNECTORS TO TERMINATE KS-20921 4/0 CABLE. IF ON A JOB BASIS ANOTHER TYPE OR SIZE OF CABLE IS SPECIFIED, THE ENGINEER IS TO PROVIDE THE PROPER TERMINALS FOR THE CABLE.

62- FURNISH YC OPTION FOR BATTERYLESS OPERATION.

63. IF 531A (DS1 & DS2) OR 531B (DS3) LED REQUIRES FIELD REPLACEMENT, ORDER WP-90184, L5 (COMCODE 405477977) FOR DS1 & DS2 OR WP-90184, L6 (COMCODE 405043664) FOR DS3. IT IS ALSO NECESSARY TO ORDER ONE KS-21320, L110 SLEEVE (COMCODE 406091439) FOR EACH DIODE BECAUSE THE OLD L.E.D. SOCKET KS-21320, L-101 CAN NOT ACCOMMODATE THE NEW L.E.D.

MANUFACTURING NOTES CONVENTIONS

(SHOP / INSTL columns)

- CABLE
- SHIELDED WIRE, BELDEN 9322, 22 GA.
- TERMINAL LUG
- DIVISION OF GENERAL WIRING VIEWS
- CONNECTION FURNISHED AS PART OF APPARATUS
- SCREW CONNECTION
- LEADS NOT INCLUDED IN LOCAL CABLE BUT RUN BY SHOP.

1. ALL WIRING TO BE DS SURFACE WIRING. 22 GAUGE STRANDED KS-22247, L-4 COLORED YELLOW AND PART OF WIRE KITS 845369032 UNLESS OTHERWISE SPECIFIED.
2. (X) LC A LCJ89503B-1A WIRE ASSY LOCAL CABLE TO BE 22 GAUGE STRANDED KS-22247, L-4 UNLESS OTHERWISE SPECIFIED.
3. (X) LC B LCJ89503B-1B WIRE ASSY, DC SEGREGATED LOCAL CABLE TO BE 22 GAUGE STRANDED, KS-22247, L-4 UNLESS OTHERWISE SPECIFIED.
4. (X) LC C LCJ89503B-1C WIRE ASSY LOCAL CABLE TO BE 22 GAUGE STRANDED KS-22247, L-4 UNLESS OTHERWISE SPECIFIED.
5. (X) LC D LCJ89503B-1D WIRE ASSY LOCAL CABLE TO BE 22 GAUGE STRANDED KS-22247, L-4 UNLESS OTHERWISE SPECIFIED.
6. B1 - TERMINAL NEAREST MOUNTING PANEL
7. PT - LEADS FURNISHED WITH COMPONENT.
8. LEADS SHOWN TERMINATED IN COMPONENTS WITHOUT TERMINALS ARE FURNISHED WITH COMPONENTS.
9. P-PAIR
10. (X) P1-PAIR MADE BY TWISTING 2 SINGLE WIRES RESPECTIVELY TOGETHER NOT LESS THAN ONE TURN PER 1 1/4 INCH.
11. (X) P2-PAIR MADE BY TWISTING A MINIMUM OF 3 TWISTS PER LENGTH OF WIRE FROM (T1) & (T2) TRNSF TO (L3) INDR.
12. (X) MATING OF PRINTED WIRING BOARD PLUGS AND CONNECTORS ON DOOR SHALL NOT BE MADE UNTIL COMPLETION OF SHOP WIRING AS TRANSIENT VOLTAGES MAY BE DEVELOPED WHICH WILL DAMAGE PWB COMPONENTS.
13. (X) NO WIRES OF THIS DRAWING ARE TO BE RUN BY THE INSTALLER EXCEPT WIRING ON SHEETS WITH PREFIX D.
14. (X) F-SEPARATE STITCH AT CABLE FORM.
15. T-TRIPLE
16. (X) TAPE & STORE ALL UNCONNECTED WIRES.
17. (X) EARLY PRODUCTION UNITS MAY USE WP91362, L2AR OR 85HFR20 FOR CR6 AND WP91362, L2A OR 85HF20 FOR CR7.
18. (X) PRIOR TO ISSUE 6 C.O. GRD WAS SHOWN AS 6 GA.
19. (X) LC E LCJ85503B-1E WIRE ASSEMBLY LOCAL CABLE TO BE 22 GA. STRANDED KS22247, L4 UNLESS OTHERWISE SPECIFIED.

Issue notes

7-23-85 M0089505NJ-2

JMM	JMM	UAL		1

PRIOR TO THIS ISSUE NO RECTIFIERS HAVE BEEN SHIPPED OF THIS CODE. ON SHEET A1 NOTE 58 READ "SEE NOTE 13". NOTE 15 ADDED. ON SH B2, MANUFACTURER & CODE OF (K1) REL READ:

OPTION	GOULD INC. CODE
V,Q / V,S	2200EB230BA-6-9
W,Q / W,S	2200EB430BA-6-9
V,T	2200EB230VA-6-9
W,T	2200EB430VA-6-9

ON SH B4 AT (CR2) TO (CR5) DIODES DIODE CODE READ, "KS-19404,L-1" AT (Q1) & (Q2) THYRISTORS, THYRISTOR CODE READ "SC260W2X397" GE. AT (L1) & (L2) INDR AT "W" OPT "13738" READ "1373A". IN FIGS D,E,F, & G, R WIRE ON NEG SIDE OF (R5) SHUNT WAS WIRED TO LOAD OUTPUT BUS.
ON SH B4 CODES OF (C5),(C7),(C14) & (C15) CAPS READ:

CAP	V OPT	W OPT
C5	97F3150	97F3209
C15	97F3136	
C7	97F3150	
C14	97F3136	

3-4-86 CLASS AD

	UAL		2

EXTENSIVE CHANGES MADE, NO RECTIFIERS SHIPPED TO DATE.
1-7-87 CLASS M

	UAL		3

CHANGES MADE PER SAMPLE REVIEW, NO RECTIFIERS SHIPPED TO DATE.
3-25-87 CLASS M

	UAL		4

IN FIG 1 SHEET B2 AT (T3) TRNSF, CODE AT "Q,S" OPT READ 3245C & AT "T" OPT READ 3245D. STRAPS IN FIGS A,B, & C USED AT (T3) TRNSF CHANGED TO AGREE WITH NEW TRNSF CODE. ON SHEET B4 AT (R1) RES, "W" OPT "L-13B" READ "L-13A". AT (R2) RES LOCATION OF "S", & "T" OPTIONS INTERCHANGED.
THE FOLLOWING IS PER DALLAS POINT ISSUE 4.1 ON SHEET B2 WIRES BETWEEN (R2) RES & (K1) REL WAS SHOWN AS 16GA & WAS NOT DESIG WIRE KIT 845801927. ON SHEET B4 AT (A) GRD, 3 BK WIRES TO (CA1) CPNT ASSY P6 & P12 TERMS & (B) GRD READ 16GA. ON SHEET B4 WIRES FROM (R1) RES & SHEETS B5 TO B8, FIGS D,E,F & G WAS SHOWN AS 16GA. ON SHEET B9 IN FIG K PT WIRES WERE DESIG, W-O KS-22247, L-5 14GA. IN FIG L (E) GRD WIRE READ 16GA. AT (CA2) FILTER WIRES FROM TERMS P18, P19 & P20 READ 14GA & WAS NOT DESIG WIRE KIT 845369057.
POINT ISSUE 4.1
8-19-87 CLASS M

	UAL		5

(CONTINUED)

(CONTINUATION)

NOTE 76 ADDED.
IN FIG 1 (RFA, DS1) (PHA, DS2) & (OM, DS3) SOCKETS & DIODES LINED OUT, NEW CODES ADDED. AT (R6) POT, ZZ OPT WAS NOT SO DESIG, YA OPT ADDED. AT (K1) REL TELEMECHANIQUE CODES ADDED. (R1) RES WAS NOT DESIG ZX OPT. AT (Q1) & (Q2) THYRISTORS, OLD CODE LINED OUT, NEW ADDED. (R4A) & (R4B) RES ADDED. IN FIG N AT (CBA1) & (CBA2) CKT BRKRS WIRES BET ALM TERM WERE NOT 20GA. IN FIGS D,E,F & G; ZV OPT ADDED, ZX WAS NOT SO DESIG. IN FIG H1 (FR GRD) (AC EG) READ (FR GRD) & (CO GRD) WAS WIRED TO INSIDE CAB. IN NOTE 52, SD-82645-01 READ T-82645-30. IN FIG G NEW CODES FOR CR6 & CR7 ADDED. (ISS 6 CONTINUED)

(CONTINUATION)

NOTES 17 & 18 ADDED DESCRIBING OLD CODES. IN NOTE 58 REF TO NOTE 17 ADDED.
9-8-89 CLASS M

	UAL		6

IN FIG 1 (SH B3) AT (CM2) CKT MODULE "YB" OPT WAS NOT SO DES AND "YC" OPT ADDED. NOTE 62 ADDED.
4-3-89 CLASS "M"

EJC	UAL		7

ISSUE NOTES (CONTINUED AT LEFT)

TABLE C - SD T DWG CROSS REFERENCE TABLE

LINE	FIG (SD-82605-01)	OPT (SD-82605-01)	FIG (T-82605-31)	WRG (T-82605-31)	APP (T-82605-31)	REMARKS
		YF			YF	
35		YE			YE	
		YD			YD	
		YC			YC	
		YB			YB	
		ZZ			ZZ	
30		YA			YA	
		ZX			ZX	
		ZW			ZW	
		ZV			ZV	
		T			T	
25		S			S	
		Q			Q	
		W			W	
		V			V	
	(CAD 3)	Z	HB			
20	(CAD 3)	Y	HA			
	(CAD 1,2,4)		H1			
	17	F,B	N			
	(1)	K,M	M			
15		Z	J			
		Y	H			
	3	J	3			
	2	–	2			SEE NOTE 59
	4	E	L			
10		X	K			
	16	W,ZA	G			
	15	W,A	F			
	16	V,ZA	E			
	15	V,A	D			
5		T	C			
		Q	B			
		S	A			
	(CAD 2)1	F,Z,U,ZW	1			
1	2,11,12,13,14	ZF,Z4				

SCHEMATIC FIGURES AND OPTIONS AGREE WITH SIMILARLY DESIGNATED WIRING DIAGRAM FIGURES AND OPTIONS EXCEPT AS SHOWN ABOVE. WE 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

TABLE D - SHEET LOC OF FIGURES & OPTIONS

FIG	OPT	SHEET
1	YF	B4
1	YE	B1
1	YD	B1
3		B3
H1, HA, HB		D1
2	R,V,W F,K,M,N	B9
H,J,K,L		B9
G	ZV,ZX	B8
F	ZV,ZX	B7
E	ZV,ZX	B6
D	ZV,ZX	B5
1	V,W,Q,S,T	B4
	ZV,ZX	B4
M,N		
1	ZZ,YA	B2
1	Q,S,T	B2
1	YB,YC	B1,B3

TABLE B - RECORD OF FIGURES COMPONENTS AND WIRING CHANGE

CHANGE 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)	
10	FIG.1	YB OR YC OPT	YB OPT		YB		YC	
					AVAIL		DA	
8	FIG.1	ZW OR YF OPT	ZW OPT		YF		ZW	
8	FIG.1	YD OR YE OPT	YD OPT	63	YE		YD	
7		YB OR YC OPT	YB OPT	62	YB,YC			
6	FIG 1	YA OR ZZ OPT	ZZ OPT		YA		ZZ	
6	FIG D, E,F OR G	ZV OR ZX OPT	ZX OPT		ZV		ZX	
6	FIG 1	ZV OR ZX OPT	ZX OPT		ZV		ZX	

T-82605-31 SHEET A1

KAE0612

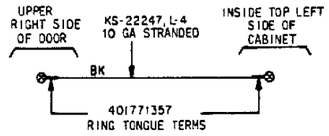
ATGT TECHNOLOGIES, INC-PROPRIETARY
USE PURSUANT TO COMPANY INSTRUCTIONS

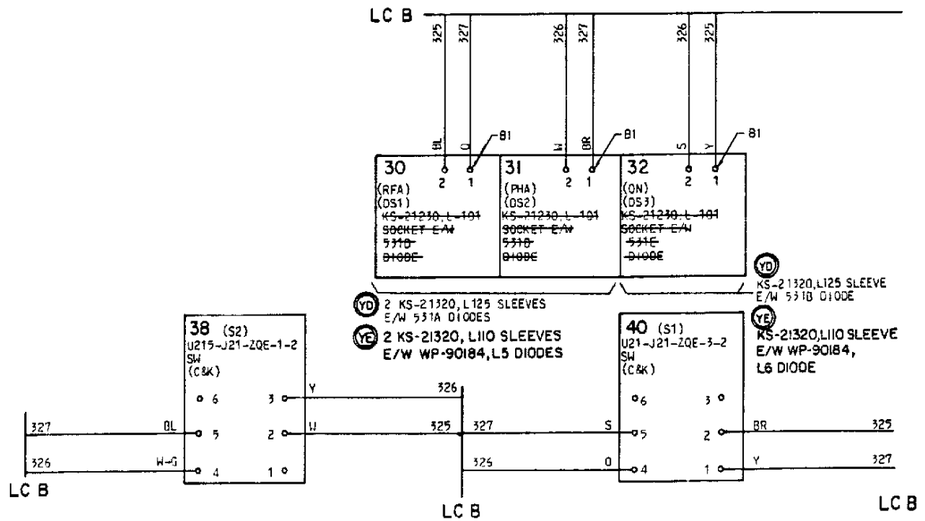
POWER SYSTEMS
RECTIFIER CIRCUIT
208/240/480 VOLT, 60 HZ, 3 PHASE INPUT
24 OR 48 VOLT, 200 AMPERE OUTPUT

11 SHEETS
DIST CODE RM10
DWG SIZE 65 | ISSUE 11

ATGT TECHNOLOGIES, INC. | T-82605-31 | SHEET A1

FIG 1 (CONTINUED)
200 AMP RECTIFIER





T-82605-31
SHEET B1

AT&T TECHNOLOGIES, INC-PROPRIETARY
USE PURSUANT TO COMPANY INSTRUCTIONS

POWER SYSTEMS RECTIFIER CIRCUIT 208/240/480 VOLT, 60 HZ, 3 PHASE INPUT 24 OR 48 VOLT, 200 AMPERE OUTPUT	DWG SIZE 65	ISSUE 8
AT&T TECHNOLOGIES, INC.	T-82605-31	SHEET B1

FIG A
208V AC

TO FIG. 1

KS-22247, L-5

PT

FIG B
240V AC

TO FIG 1

KS-22247, L-5

PT.

FIG C
480V AC

TO FIG 1

KS-22247, L5. 6GA

KS-22247, L-5

LC E WIRE KIT 845369040

(K3)
KUP3D5X24
REL
(P & B)

FIG I (CONT'D)

845801927 WIRE KIT

WIRE KIT 845369032

TERMS FOR INST WRG

KS-22247, L5

11
(K1)
REL

L1 L2 L3

T1 T2 T3

OPT	ARROW-HART INC CODE
V,Q	ACC430-8070C
V,S	
W,Q	ACC430-8076C
W,S	
V,T	ACC430-8070B
W,T	

OPT	TELEMECHANIQUE CODE
V,Q	2200EB330B4-65-11-9 (208/240V COIL)
V,S	
W,Q	2200EB330BA-9 (208/240V COIL)-15
W,S	
V,T	2200EB330KA-65-11-9 (480V COIL)
W,T	

DIGITAL METER CA 845367473

FROM FIG 3

12
(K2)
A283XCX252
REL
(STRUTHERS DUNN INC)

LC D (35) OR LC E (T)

LC E (T) 22 GA. -845369040- KS22247, L5

(T3) (Q,S) 3245F OR 3245G TRNSF

WIRE KIT 845369032 KS-22247, L-5

21

22

LC D (35) OR LC E (T)

LC C

81 FROM FIGS A, B OR C

82 FROM FIGS H OR J (SHEET B9)

FIG M

LC C

29 (R2)

845651504 16.K Ω OR 845651512 33.K Ω RES

KS-22247, L5 845801927 WIRE KIT

31 (R6) 3540S-701-102 (BOURNS) OR M22S10 (MEPCO/COPAL) 1K POT

2, KS-20667, L-2 JKS, RED

32 (TP2) (REG-)

33 (TP1) (REG +)

34 (FA6)

35 (FA5)

2, 15A FUSE BLOCKS E/M 70G FUSES

41

FROM FIGS M OR N

LC C

LC D (35) OR LC E (T)

FIG N

TO FIG 1

845562826 BUS BAR

LC C

845562636 BUS BAR

(CBA1) KS-22012, L-51 CKT BRKR

1 LINE

2 LOAD

846368976 CA ASSY

TO FIG 1

845562826 BUS BAR

845368976 CA ASSY

845562644 BUS BAR

LC C

(CBA2) KS-22012, L-51 CKT BRKR

(CBA1) KS-22012, L-51 CKT BRKR

1 LINE

2 LOAD

845368976 CA ASSY

WIRE KIT 845805860, 20GA

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POWER SYSTEMS
RECTIFIER CIRCUIT
208/240/480 VOLT, 60 HZ, 3 PHASE INPUT
24 OR 48 VOLT, 200 AMPERE OUTPUT

DWG SIZE 6S

ISSUE 11

AT&T TECHNOLOGIES, INC.

T-82605-31

SHEET B2

GR-97-2135 (4-84)

T-82605-31 SHEET B2

FIG. 3
DIGITAL METER

(CM3)
207A
CKT MODULE
(P1B)
MATING PLUG & CONN
(J1B)
CONN
4
845367473 CA ASSY
BL
P1
W-BL
3
8
TO FIG 1 (SHEET B2)
(J3A)
CONN
4
MATING PLUG IN FIG 1

(J3A)
15
1
MATING PLUG & CONN
CONN SHOWN IN FIG 3

(CM2) 208A (YB) OR 208C (YC)
CKT MODULE
(P2A)
(P5A)
(P1A)
MATING PLUG & CONN

FIG. 1 (CONT'D)

(J1A)
845368927 RIBBON CABLE ASSY
(J1)
MATING PLUG & CONN

(J9)
1-102241-0
CONN
(AMP)
21 1 2 3 4 5 6 22 7 8 9 10 11 12
BL W-BL BK BK R R BR Y-BR S BL W-S W-BL
(C) GRD
F
P
THRU HOLE H1
421 421 472 471 472 473 421 421 471 472 471 472
LC A

MATING PLUG & CONN

(CM1)
ED-83159-30 GR 2
OPTION BOARD
(P1)
(P2)
(P3)
(P4)
(P5)

MATING PLUG & CONN

(J2)
102241-6
CONN
(AMP)
15 8 7 6 5 16 4 3 2 1
S O Y BR S W W-BL W-O
212 212 212 212 222 222 222 222
THRU HOLE H2
LC D (S) (O) (Y) (BR)
LC E (T)

MATING PLUG & CONN

(J4)
1-102241-3
CONN
(AMP)
LC B
25
15 W 138
14 BL 130
13 Y 132
12 BR 140
11
26
10 S 132
9 W 131
8 Y 138
7 O 140
6 W-G 133
27
5 S 140
4 BR 131
3 Y 140
2 O 130
1 BL 138

(J3)
1-102241-2
CONN
(AMP)
LC C
31
14 (R) 481D
13 (BK) 481C
12 (W) 481B
11 BR 234
32
10 S 235
9
8 W-BL 235
7 O 231
6 BL 234
33
5 (S) 241B
4 (BR) 241A
3 Y 232
2 O 233
1 BL 231

T-82605-31
SHEET B3

AT&T TECHNOLOGIES, INC-PROPRIETARY
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POWER SYSTEMS RECTIFIER CIRCUIT 208/240/480 VOLT, 60 HZ, 3 PHASE INPUT 24 OR 48 VOLT, 200 AMPERE OUTPUT	DWG SIZE 6S	ISSUE 8
AT&T TECHNOLOGIES, INC. T-82605-31		SHEET B3

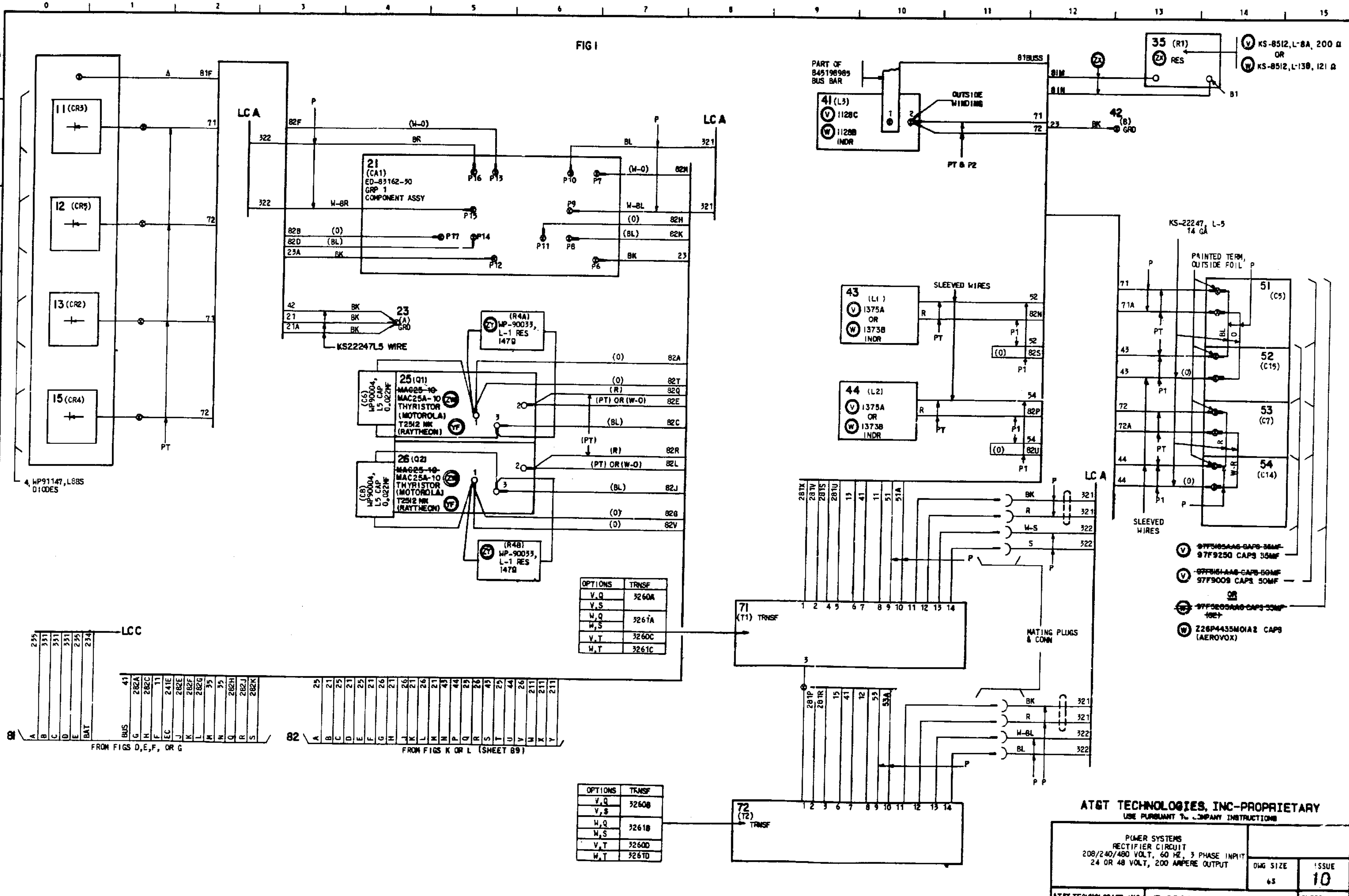


FIG I
LC A
LCC
11 (CR3)
12 (CR5)
13 (CR2)
15 (CR4)
4, WP91147, L88S DIODES
21 (CA1) ED-83162-50 GRP 1 COMPONENT ASSY
23 (A) GRD
KS22247L5 WIRE
25 (Q1) MAC25A-10 THYRISTOR (MOTOROLA) T2512 NK (RAYTHEON)
26 (Q2) MAC25A-10 THYRISTOR (MOTOROLA) T2512 NK (RAYTHEON)
(C6) WP90004, L5 CAP 0.022MF
(C8) WP90004, L5 CAP 0.022MF
(R4A) WP-90033, L-1 RES 147Ω
(R4B) WP-90033, L-1 RES 147Ω
PART OF 845198985 BUS BAR
41 (L3) 1128C OR 1128B INDR
OUTSIDE WINDING
PT & P2
35 (R1) RES
KS-8512, L-8A, 200 Ω OR KS-8512, L-138, 121 Ω
42 (B) GRD
43 (L1) 1375A OR 1373B INDR
44 (L2) 1375A OR 1373B INDR
SLEEVED WIRES
KS-22247, L-5 14 GA
PAINTED TERM, OUTSIDE FOIL
51 (C5)
52 (C15)
53 (C7)
54 (C14)
97F9250 CAPS 35MF
97F9009 CAPS 50MF
OR
Z26P4435M01A2 CAPS (AEROVOX)
MATING PLUGS & CONN
71 (T1) TRNSF
72 (T2) TRNSF
81 FROM FIGS D,E,F, OR G
82 FROM FIGS K OR L (SHEET B9)
T-82605-31
SHEET B4

OPTIONS	TRNSF
V,Q	3260A
V,S	
W,Q	3261A
W,S	
V,T	3260C
W,T	3261C

OPTIONS	TRNSF
V,Q	3260B
V,S	
W,Q	3261B
W,S	
V,T	3260D
W,T	3261D

AT&T TECHNOLOGIES, INC-PROPRIETARY
USE PURSUANT TO COMPANY INSTRUCTIONS

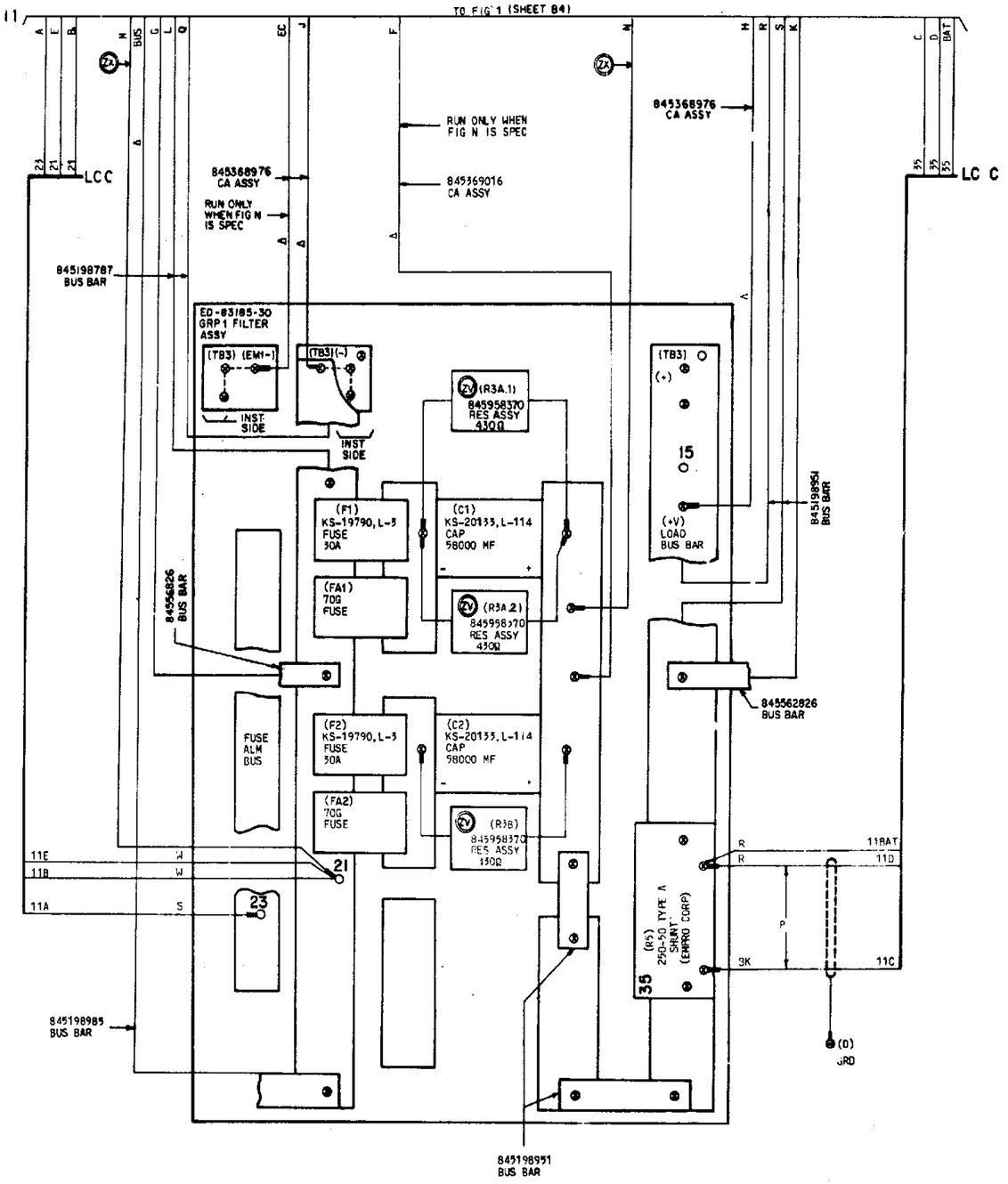
POWER SYSTEMS
RECTIFIER CIRCUIT
208/240/480 VOLT, 60 HZ, 3 PHASE INPUT
24 OR 48 VOLT, 200 AMPERE OUTPUT

DWG SIZE	ISSUE
45	10

AT&T TECHNOLOGIES, INC. T-82605-31 SHEET B4

GM-97-2135 (4-84) PRINTED IN U.S.A.

FIG. D
24 VOLT
FILTER ASSY



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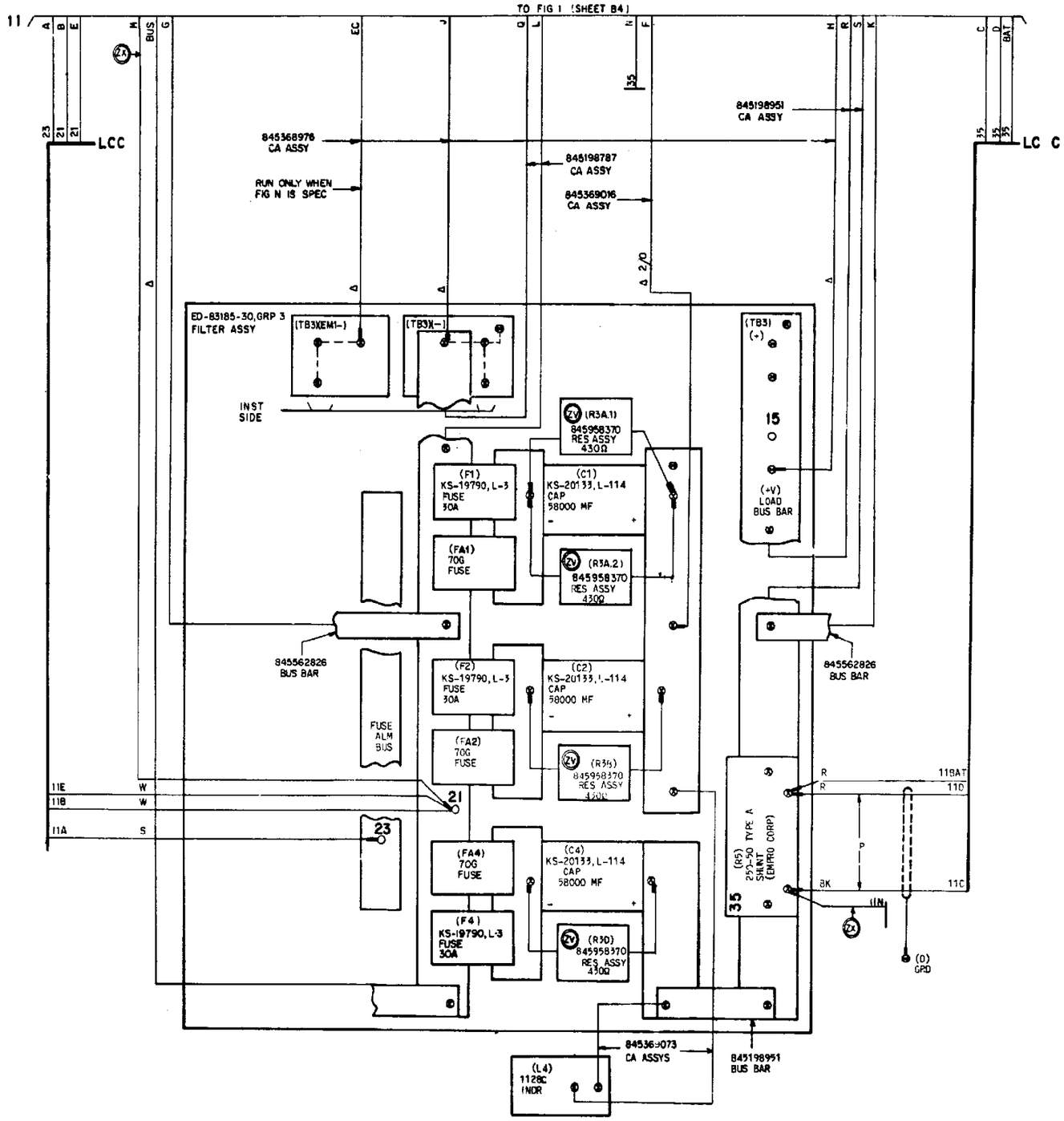
USE PURSUANT TO COMPANY INSTRUCTIONS

POWER SYSTEMS RECTIFIER CIRCUIT 208/240/480 VOLT, 60 HZ, 3 PHASE INPUT 24 OR 48 VOLT, 200 AMPERE OUTPUT	DWG SIZE 65	ISSUE 6
AT&T TECHNOLOGIES, INC. T-82605-31		SHEET 85

FIG E
24 VOLT FILTER ASSY
WITH ADDITIONAL FILTER



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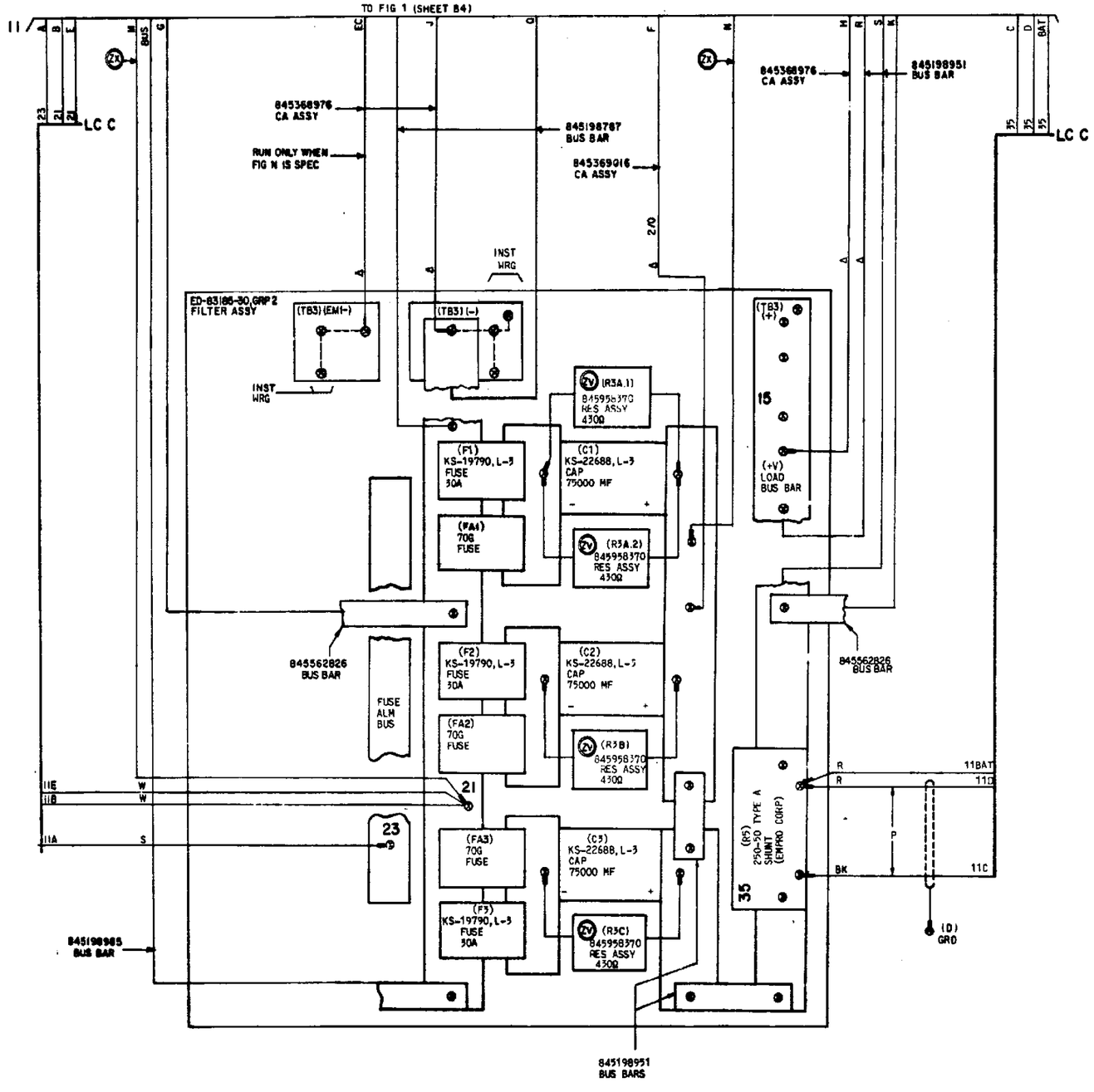
POWER SYSTEMS RECTIFIER CIRCUIT 208/240/480 VOLT, 60 HZ 3 PHASE INPUT 24 OR 48 VOLT, 200 AMPERE OUTPUT	DWG SIZE 65	ISSUE 6
AT&T TECHNOLOGIES, INC.	T-82605-31	SHEET B6

FIG F
48VOLT FILTER ASSY



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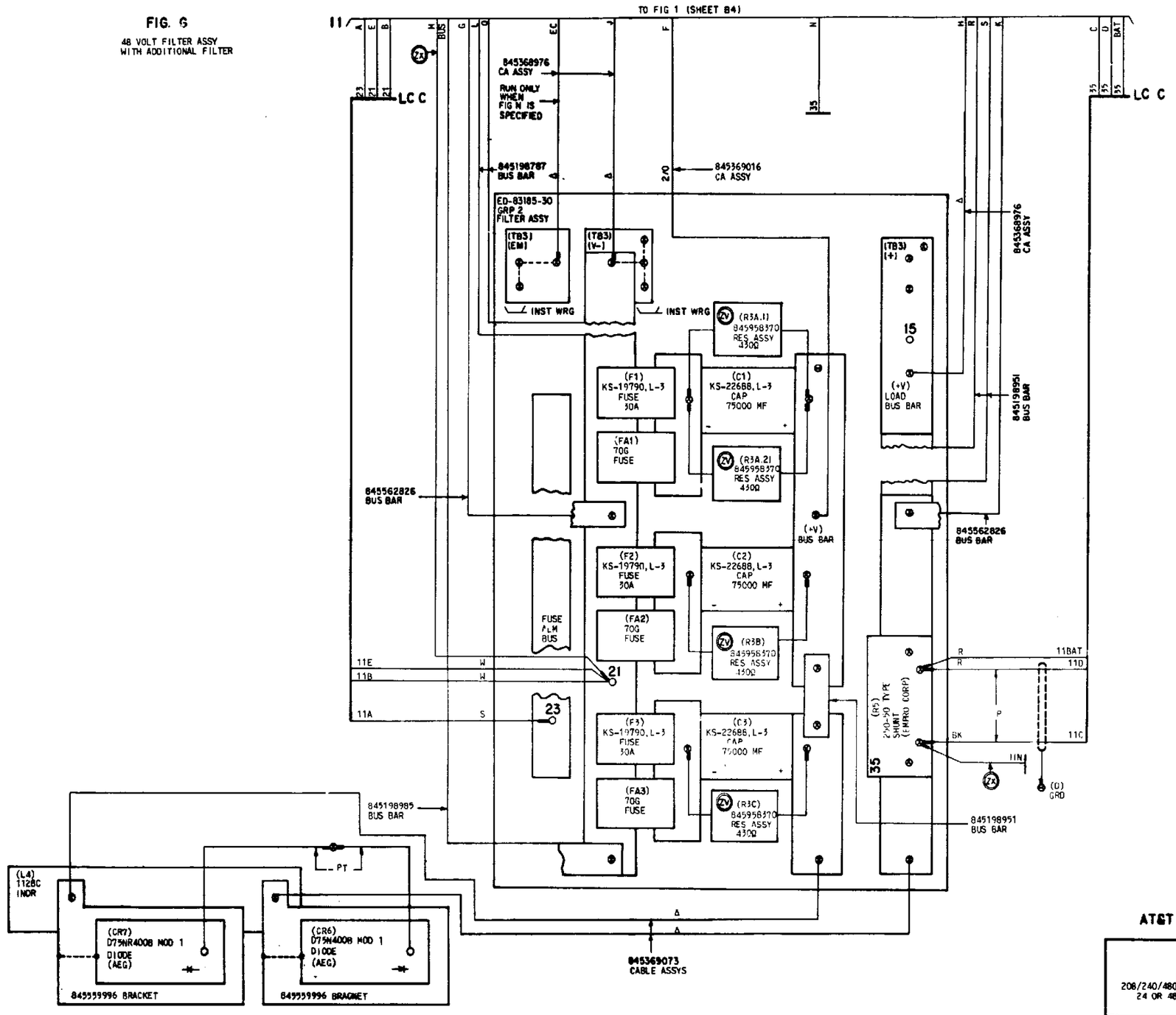
POWER SYSTEMS RECTIFIER CIRCUIT 208/240/480 VOLT, 60 HZ, 3 PHASE INPUT 24 OR 48 VOLT, 200 AMPERE OUTPUT	DWG SIZE 65	ISSUE 6
AT&T TECHNOLOGIES, INC. T-82605-31		SHEET B7

FIG. 6

48 VOLT FILTER ASSY
WITH ADDITIONAL FILTER



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POWER SYSTEMS RECTIFIER CIRCUIT 208/240/480 VOLT, 60 HZ, 3 PHASE INPUT 24 OR 48 VOLT, 200 AMPERE OUTPUT	DWG SIZE 6S	ISSUE 6
AT&T TECHNOLOGIES, INC. T-82605-31		SHEET B8

FIG. J
POSITIVE GRD

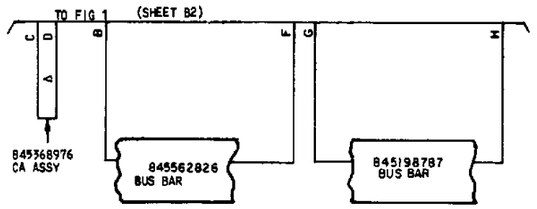


FIG. H
NEGATIVE GRD

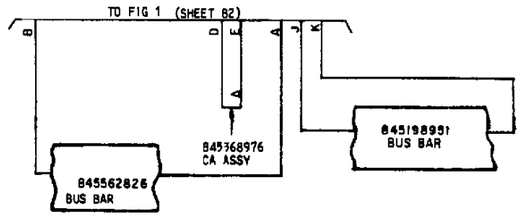


FIG. K
NO EMI FILTERING

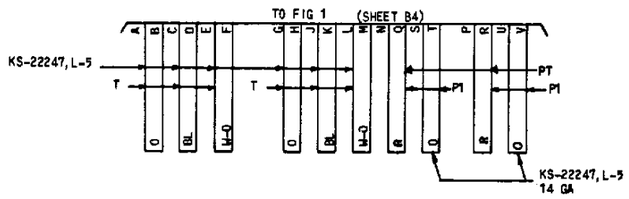


FIG. L
EMI FILTERING
(WIRE KIT 845369057)

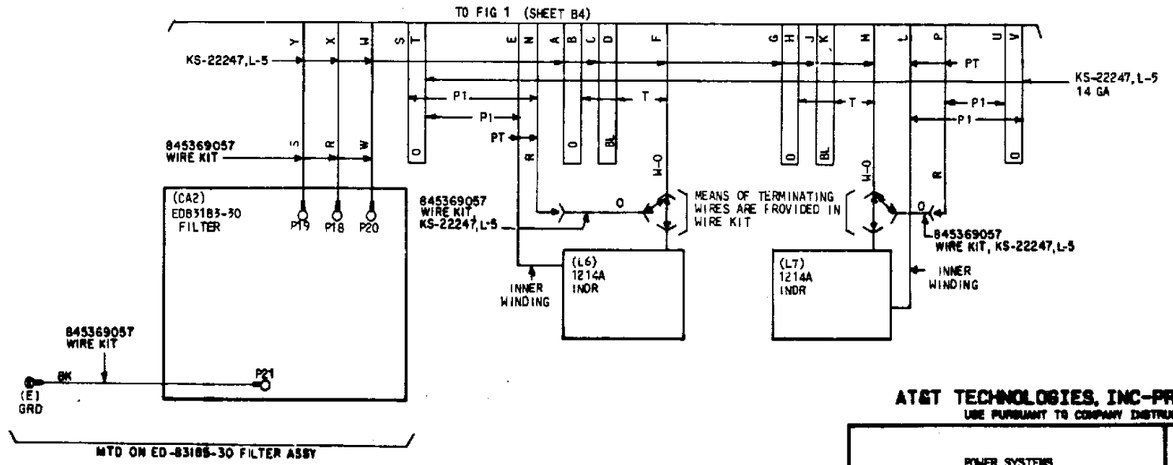
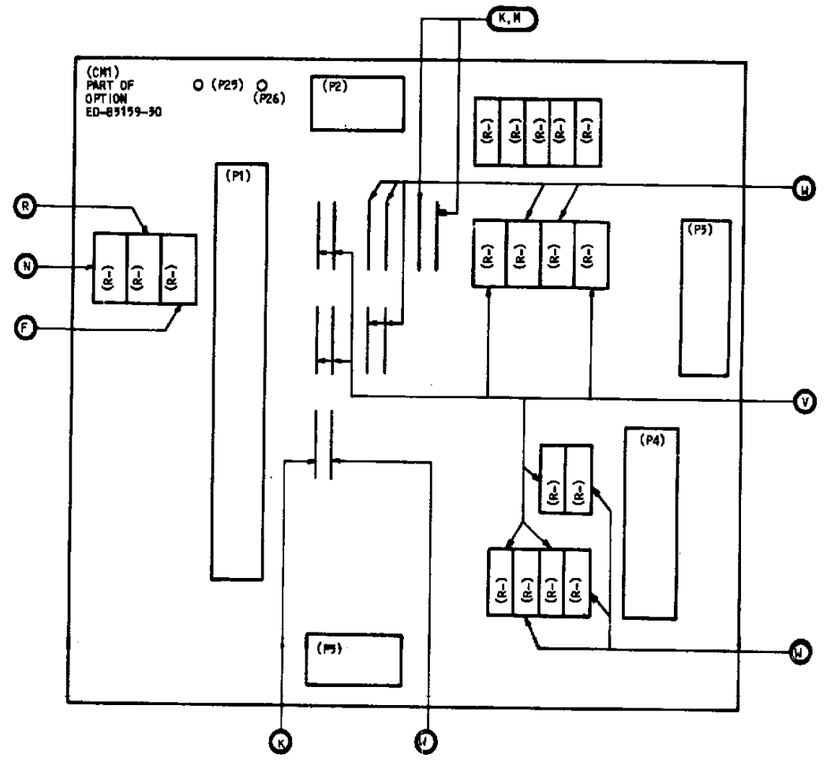


FIG. 2
OPTION BD



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POWER SYSTEMS RECTIFIER CIRCUIT 208/240/480 VOLT, 50 HZ. 3 PHASE INPUT 24 OR 48 VOLT, 200 AMPERE OUTPUT	DWG SIZE 6S	ISSUE 3
AT&T TECHNOLOGIES, INC.	T-82605-31	SHEET 89

H-283-224 L-
CABLE ASSY

(J2A)

FROM
PLANT CONTROL
CKT(SEE SD-82605-06
TABLE A)

MATING
PLUG & CONN

(CM2)
CONTROL
MODULE

(P2A)

PRINTED WRG BOARD
MTD ON DOOR

FROM LINEAGE 2000(TM)
REMOTE ACCESS SYSTEM
(FOR RECT OUTPUT CURRENT)

A( )

A( )

2-520184-2 RECEPTACLE (AMP INC)
403239752 (FURNISHED BY EMGR)

P25

P26

(CM1)
PART OF
ED-83159-30-
OPTION BOARD

FIG. H1
INST WRG

TO 208,240, OR 480V AC
INPUT VOLTAGE AS SPECIFIED

L1

L2

L3

AC EG

SEE NOTE 56

(K1)

P1

P2

P3

(FR GRD)
(AC EG)

FROM END
CELL CHARGING

- END
CELL

TO CO
GROUND

CO
GRD

4GA
(SEE NOTES 18&57)

(CO GRD)

FROM FIGS HA OR HB

V-

V+

(TB3)
(-EM)

(TB3)
(V-)

(TB3)
(V+)

DC POWER OUTPUT

PART OF
J855038-1

FIG. HA
MES GRD SYSTEM

FROM CHARGE & DISCHARGE CKT

GRD

BAT

4/0 GA
(SEE NOTE 61)

V-

V+

TO FIG H1

FIG. HB
POS GRD SYSTEM

FROM CHARGE & DISCHARGE CKT

GRD

BAT

4/0 GA
(SEE NOTE 61)

V+

V-

TO FIG H1

T-82605-31

SHEET D1

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POWER SYSTEM RECTIFIER CIRCUIT 208/240/480 VOLT, 60 HZ, 3 PHASE INPUT 24 OR 48 VOLT, 200 AMPERE OUTPUT	DWG SIZE 6S	ISSUE 11
AT&T TECHNOLOGIES, INC. T-82605-31		SHEET D1

CM-97-2135 (4-84)