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FS 2	B3	5
APP FIG. 1	C1	13
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CIRCUIT NOTES EQUIPMENT NOTES	D1	12
INFORMATION NOTES	D2	13
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OPTION INDEX

APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION
Z	1		1A8 ,1B8
Y	1		1A8,[illegible]
X	1		1E4,1G3
W	1		APP FIGS.1,2,6,8,9,10, 12,14,15,16,1A4,1A5, 1B4,1B5,1C3,1C5, 1E2,1E3,1E4,1G2,3C2, 3D2,3E1,3F2,3F3,3F5
V	1		APP FIGS.1,2,5,7,9,10, 11,13,15,16,1A5,1B4, 1B5,1B6,1C3,1C5,1E2, 1E3,1E4,1G2,3C2,3D2, 3E1,3F2,3F3,3F5
U	NO 3		APP FIG. 1
T	1		APP FIGS.1,7,8,13,14, 1A1,1A2,1A3,1B1,1C2, 1C3,1D2,1E1,1E2,2C2,2D2
S	1		APP FIGS.1,5,6,11,12, 1A1,1A3,1B1,1A2,1C2,1C3, 1D2,1E1, 1E2
R	1		APP FIG. 2,3E7
Q	1		APP FIGS.1,5,6,11,12, 1A1,1A3,1B1,1A2,1C2, 1C3,1D2,1E1,1E2
P	NO 3		APP FIGS.5,6,7,8
N	1		APP FIGS,1,2,3,4,5,6, 7,8,9,17,1B6,1A4,1A5, 1A7,1B4,1B8,1C5,1D3, 1D5,1E4,1F2,1G2,1G3, 1H5,3E7
M	1		3E3,3F1
K	1		3E3,3F1
J	1		APP FIG. 3,2D6,2D7,
[illegible]	STD 3		APP FIGS. 5,6,7,8

OPTION INDEX (CONT)

APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION
F	1		APP FIGS. 1,2,3,11, 12,13,14,15,16,1A4, 1A5,1A6,1A7,1B4,1B5, 1B6,1B8,1D3,1D5,1E4, 1F2,1F5,1G2,1G3,3F7,
E	1		APP FIG. 4, 1C2, 1E4,1E5,1G3
D	DA 6		APP FIG. 1
B	1		APP FIG. 17,1B8,2A5
A	1		APP FIGS. 9,15,1A5, 1C5,1E7,1E8,1E9
ZA	1		APP FIGS. 10,16,1A4, 1A5,1A6,1B5,1B6,1C5
ZB	NO 3		APP FIGS. 5,6,7,8,9, 15,1A4,1A5,1B9,1C5
ZC	STD 3		APP FIGS. 5,6,7,8, 1B1
ZD	NO 3		APP FIGS. 2,3F6,3F7
ZE	STD 3		APP FIGS. 2,3F6,3F7
ZF	STD 3		APP FIGS. 13,14
ZG	NO 3		APP FIGS. 5-14
ZH	DA 5		APP FIGS. 5-14
ZI	NO 3		APP FIG..12
ZJ	STD 3		APP FIG. 12
ZK	DA 5		APP FIGS. 5,6,7,8,9, 10,11,12,13,14
ZL	AVAIL 5		APP FIGS. 5,6,7,8,9, 10,11,12 13,14
ZM	DA 5		APP FIG. 2
ZN	AVAIL 5		APP FIG. 2
ZO	AVAIL 5		APP FIGS. 1,2,3
ZP	AVAIL 5		APP FIGS. 1,2,3
ZQ	DA 5		APP FIG. 1, 1B7,1C6
ZR	AVAIL 5		APP FIG. 1, 1B7,1C6
ZU	AVAIL 5		APP FIGS. 11-14, 1A4
ZV	AVAIL 6		APP FIG. 1,1A5,1A6, 1B6,1C6
ZW	AVAIL 6		APP FIG. 1
ZX	DA 6		APP FIG 1, 1B5
ZY	AVAIL 6		APP FIG 1,1E5,1G4
ZZ	DA 6		APP FIG 1
YA	AVAIL 6		APP FIG 1
YB	AVAIL 7		APP FIG 1
YC	AVAIL 7		APP FIG 1
YD	DA9		APP FIG 1
YE	AVAIL 9		APP FIG 1
YF	AVAIL 9		APP FIG 1
YG	AVAIL 13		APP FIG 1

SYSTEM USED ON	DESIGN CONTROL
POWER	WH/PK

SUPPORTING INFORMATION

CATEGORY	NO.
PRODUCT MANUAL	115-314
OPERATING METHODS	ATTP-169-790-106

DWG ISSUE	CD ISSUE	DATE ISSUED		APPD
1	1	5-9-85	ZEN WF	[illegible]
2A	1 APP 1A	6-17-86		
3B	1 APP 2B	6-17-86		
4A	1 APP 3A	5-28-87		
5M	1 APP 4M	9-30-87		
6M	1 APP 5M	6-8-88		
7M	1 APP 6M	3-14-89		
8M	1 APP 7M	9-28-89	EC	
9B	1 APP 8M	6-21-90	[illegible]	
10M	1	11-12-90	[illegible]	
11M		04-4-91	[illegible]	
12A	1	8-3-93	[illegible]	
13M	1	11-10-93	[illegible]	

8M1D

POWER SYSTEMS

"LINEAGE" ® 2000 RECTIFIER CIRCUIT

208/240/480 VOLT, 60Hz, 3 PHASE INPUT
24 OR 48 VOLT, 100 OR 200 AMPERE OUTPUT
J85503A & B

DWG SIZE 88

ISSUE 13M

AT&T

SD-82605-01

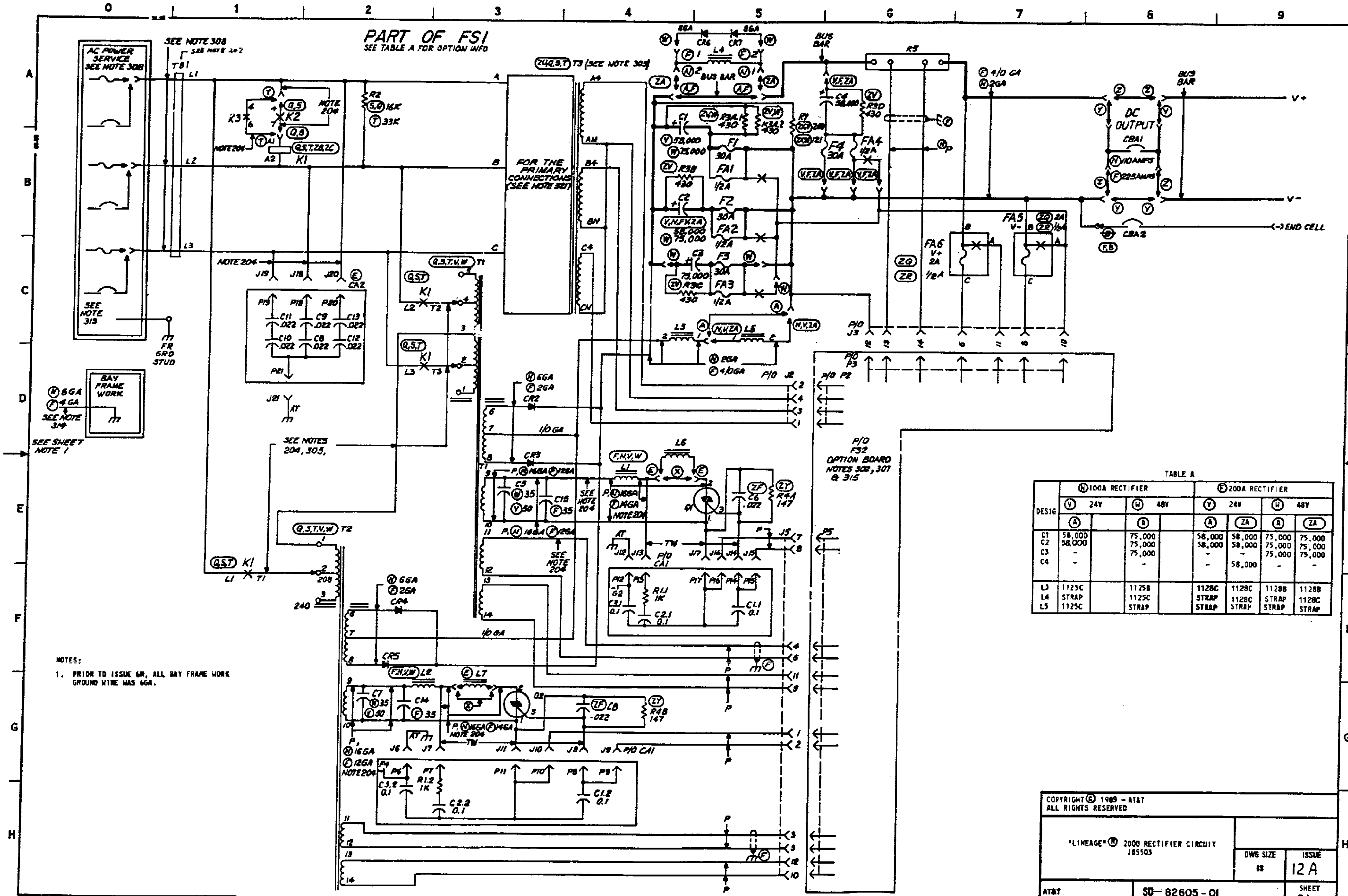


TABLE A

DESIG	Ⓝ 100A RECTIFIER Ⓥ 24V Ⓐ	Ⓝ 100A RECTIFIER Ⓥ 24V	Ⓝ 100A RECTIFIER Ⓦ 48V Ⓐ	Ⓝ 100A RECTIFIER Ⓦ 48V	Ⓕ 200A RECTIFIER Ⓥ 24V Ⓐ	Ⓕ 200A RECTIFIER Ⓥ 24V ⓏⒶ	Ⓕ 200A RECTIFIER Ⓦ 48V Ⓐ	Ⓕ 200A RECTIFIER Ⓦ 48V ⓏⒶ
C1	58,000		75,000		58,000	58,000	75,000	75,000
C2	58,000		75,000		58,000	58,000	75,000	75,000
C3	-		75,000		-	-	75,000	75,000
C4	-		-		-	58,000	-	-
L3	1125C		1125B		1128C	1128C	1128B	1128B
L4	STRAP		1125C		STRAP	1128C	STRAP	1128C
L5	1125C		STRAP		STRAP	STRAP	STRAP	STRAP

NOTES:

1. PRIOR TO ISSUE 6R, ALL BAY FRAME WORK GROUND WIRE WAS 6GA.

"LINEAGE"® 2000 RECTIFIER CIRCUIT
J85503

DWG SIZE: [illegible] | ISSUE: 12A

AT&T | SD-82605-01 | SHEET B1

PART OF FS1

P/O S2 RECT TEST

RFA DS1

P/O CBA2

20GA

P/O CBA1

20GA

OUTPUT VOLTS ADJ

R6 1K

P/O J4

P/O J3

P/O P4

P/O P3

P/O FS2
CM1
OPTION BOARD
NOTES 307, 302, 315

P/O J3 TP1 REG+

TP2 REG-

P/O J4

P/O S2 RECT TEST

P/O S1 POWER

P1

P/O P4

P/O P2

P/O J2

K2

K3

472

J1

W1

J1A

P/O J4

DS2 PH

P/O S1 POWER

DS3 POWER

P25

P26

A(-)P

A(-)N

TO LINEAGE® 2000 REMOTE ACCESS SYSTEM SD-82645-01 NOTE 316

P1A

CM2
208A CONTROL MODULE (B) 208C CONTROL MODULE (C)
SEE NOTES 310, 318

P2A

J2A

RY A- BAT HV48 APD TR48 RFA RFAR LOAR-DPD PMV PMVR PMVVR PMVV CB HVR TRR TR24 HV24 SR SRR PH.LOA TRH VI VP MAN TDO TPI TP2 TP3 GND RS RSR

NOTE 306

TO PLANT CONTROL CIRCUIT

P3A

J3A

J1B

K2

P1B

CM3
207A DIGITAL METER
NOTES 311, 319

F, J, N, 20 ZP

N2

"LINEAGE"® 2000 RECTIFIER CIRCUIT
J85503

DWG SIZE 63

ISSUE 7M

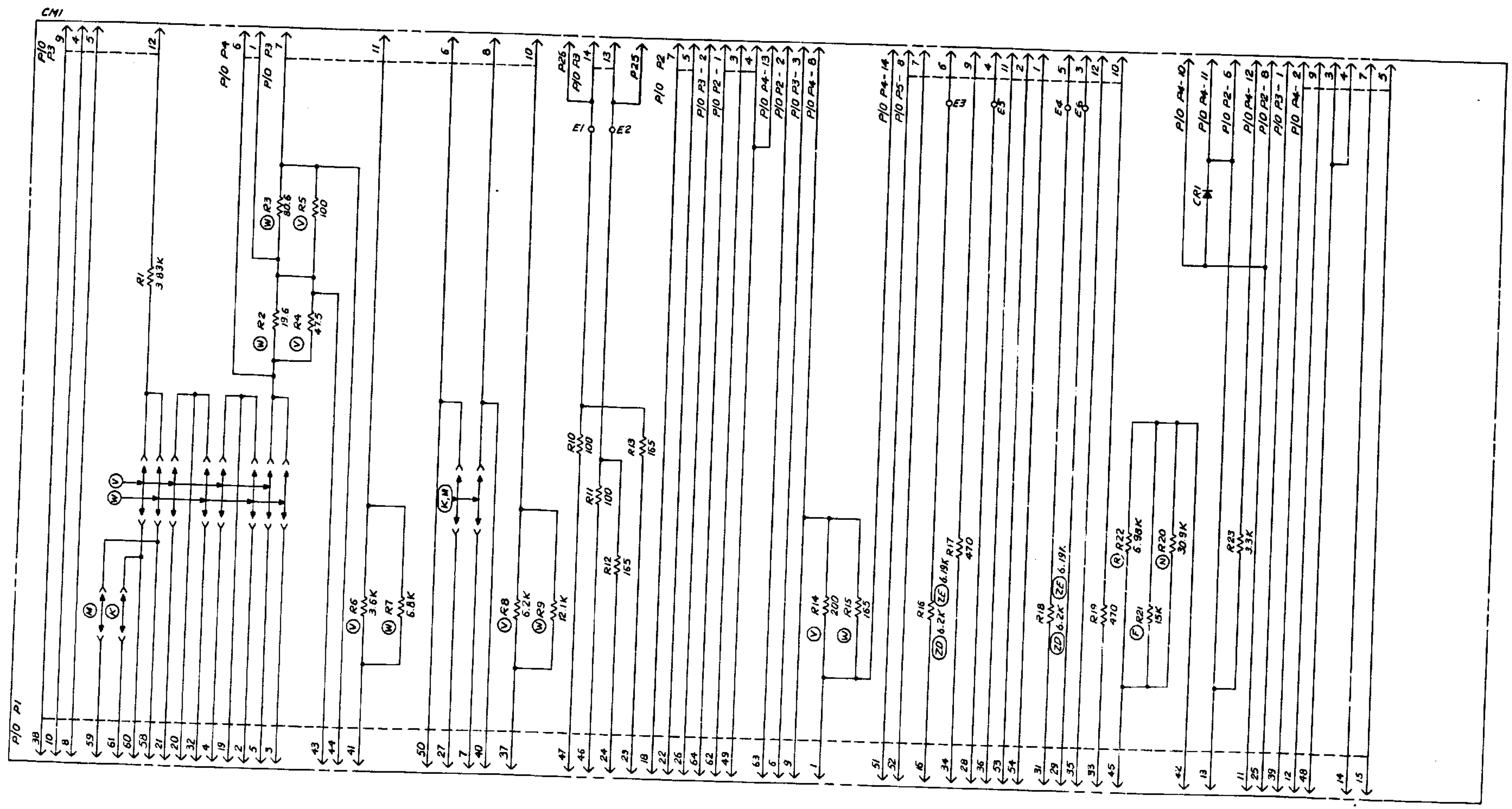
AT&T

SD-82605-01

SHEET 82

FS 2

OPTION BOARD



"LINEAGE" ® 2000 RECTIFIER CIRCUIT
J85503

DWG SIZE	ISSUE
B3	5M

AT&T SD-82605-01

SHEET B3

APP FIG. 1

RELAY

8283XCX252 STRUTHERS-DUNN INC

K2

9 — 3 6 — 2D7
8 — 2 5 — 2C1
7 — 1 4 — 1A1
A B 472 — 2D1

KUP3D5K24 POTTER & BRUMFIELD

① K3

6 — 1A1
4 — 1A1
A B 472 — 2D2

CABLE ASSEMBLY

DESIG	LOC	CODE
W1	2C2	(N) 843783408
		(F) 845367473

E/W

CONNECTOR

DESIG	LOC	CODE
J1	2C3	1-499571-4, AMP
J1A	2C3	1-499571-4, AMP

COMPONENT ASSEMBLY

DESIG	LOC	CODE
CA1	1E5,1G4	ED-83162-30, GRP 1, NOTE 1

E/W

CAPACITOR

DESIG	LOC	CODE
C1.1	1F5	542L,0.1
C1.2	1H4	542L,0.1
C2.1	1F6	KS-14980,L26,0.1
C2.2	1H3	KS-14980,L26,0.1
C3.1	1F8	542L,0.1
C3.2	1F2	542L,0.1

CONNECTOR

DESIG	LOC	CODE
P6	1G2	836, ZIERICK
P7	1G3	836, ZIERICK
P8	1G4	836, ZIERICK
P9	1G4	836, ZIERICK
P10	1G3	836, ZIERICK
P11	1G3	836, ZIERICK
P12	1F4	836, ZIERICK
P13	1F4	836, ZIERICK
P14	1F5	836, ZIERICK
P15	1F5	836, ZIERICK
P16	1F5	836, ZIERICK
P17	1F5	836, ZIERICK

RESISTOR

DESIG	LOC	CODE
R1.1	1F4	KS-20289,L6C,1K
R1.2	1H3	KS-20289,L6C,1K

CIRCUIT MODULE

DESIG	LOC	CODE
CM2	2E4	208A (YB)
		208C (YC) SEE NOTE 3W8

CONNECTOR

DESIG	LOC	CODE
J2	1D5	(ZQ) 640440-8, AMP
		(ZP) 102241-6, AMP
J2A	2E2	1-102598-8, AMP, (NOTE 2)
J3	1C6,2A5, 2B6	(ZQ) 1-641190-4, AMP (ZP) 1-102241-2, AMP
J4	2A4,2B5, 2B6	(ZQ) 1-640440-5, AMP (ZP) 1-102241-3, AMP
J5	1E9	(ZQ) 1-641190-2, AMP (ZP) 1-102241-0, AMP
J6	1G2	3-350819-2, AMP
J7	1G5	2-520183-2, AMP
J8	1G4	2-520183-2, AMP
J9	1G4	2-520183-2, AMP
J10	1G3	2-520183-2, AMP
J11	1G3	2-520183-2, AMP
J12	1E4	3-350819-2, AMP
J13	1E4	2-520183-2, AMP
J14	1E5	2-520183-2, AMP
J15	1E5	2-520183-2, AMP
J16	1E9	2-520183-2, AMP
J17	1E9	2-520183-2, AMP
J18	1C1	2-520183-2, AMP

CONNECTOR (CONT)

DESIG	LOC	CODE
J19	1C1	2-520183-2, AMP
J20	1C2	2-520183-2, AMP
J21	1D1	2-520183-2, AMP

DIODE,LIGHT EMITTING

DESIG	LOC	CODE
DS1	2A4	~~5540~~ 531A (YD) (YE) WP-9018L,L5 SEE NOTE 323
DS2	2C5	~~5540~~ 531A
DS3	2C5	~~5540~~ 531B

FUSE

DESIG	LOC	CODE
F85	1B7	(ZQ) 70B
		(ZR) 70G
FA6	1C6	(ZQ) 70B
		(ZR) 70G

POTENTIOMETER

DESIG	LOC	CODE
R6	2A5	(ZZ) 3540S-701-102,1K,BOURNS
		(YB) M22S10,1K, 405591082 MEPCO/COPAL

RESISTOR

DESIG	LOC	CODE
R1	1A5	(ZXV) KS-8512,L8A,200, (ZXW) KS-8512,L13,121
R2	1A2	(O,S) KS-20084,L9A,16K
		(T) KS-20084,L9A,33K
		(ZV) R3A.1 1A5 KS-14603,L2AD,430
		(ZV,W) R3A.2 1A5 KS-14603,L2AD,430
		(ZV) R3B 1B4 KS-14603,L2AD,430
		(ZV,W) R3C 1C4 KS-14603,L2AD,430
		(ZV,Y,F,ZA) R3D 1A6 KS-14603,L2AD,430

SWITCH

DESIG	LOC	CODE
S1	2C5,2C7	U21-J21-ZQE-3-2, WITH RED LEVER, C&K
S2	2A4,2B7	U21S-J21-ZQE-1-2, WITH WHITE LEVER, C&K

S1 POWER

ON 1 — 2
OFF 3
4 — 5
6

S2 RECT TEST

S2 POS	TERMS CONN
NL (CENTER)	2-3, 5-6
	2-3, 4-5
FL	1-2, 4-5

S1 & S2 TOP

6 3
5 2
4 1

TEST POINT

DESIG	LOC	CODE
TP1	2B6	KS-20667,L2
TP2	2B6	KS-20667,L2

THYRISTOR

DESIG	LOC	CODE
Q1	1E5	(N,U) SC260M2X3S7, G.E.CO.
Q2	1G3	(F,N,O) MAC25-10 MOTOROLA
		(ZW) MAC25A-10, MOTOROLA
		(YF) T2512NK, RAYTHEON
		(YG) BTA10-800B,S6S THOMPSON

NOTES:

1. P6 AND P12 ARE NOT STRAPPED ON THE ED-83162-30 GRP1, ISS L2 CIRCUIT ASSEMBLIES OF THE EARLY PRODUCTION.
2. J2A CONNECTOR WILL BE FURNISHED AS A PART OF THE PLANT CABLE PER SD-82588-01. THE CODE IS FOR A REFERENCE ONLY.

"LINEAGE" (N) 2000 RECTIFIER CIRCUIT
J85503

DWG SIZE	ISSUE
6S	13M

AT&T | SD-82605-01 | SHEET C1

APP FIG. 2

CIRCUIT MODULE

DESIG	LOC	CODE
CM1	3E4	ED-83159-30 ED-83159-30, GRP 2 ED-83159-30, GRP 1 ED-83159-30, GRP 1A } NOTE 315

E/W

CONNECTOR

DESIG	LOC	CODE
P1 P2	2C3,3G0 1D6,2C1	1-499900-2, AMP (ZQ) 640456-8, AMP (ZP) 102202-5, AMP
P3	1D6,2B5, 2B6	(ZQ) 1-641126-4, AMP (ZP) 1-102202-1, AMP
P4	2B4,2B6, 2C5	(ZQ) 1-640456-5, AMP (ZP) 1-102202-2, AMP
P5	1E6	(ZQ) 1-641126-2, AMP (ZP) 1-102202-9, AMP

DIODE

DESIG	LOC	CODE
CR1	3C7	WP-90015,L3

RESISTOR

DESIG	LOC	CODE
R1	3C1	WP-90033,L1,3.83K
(K) R2	3D2	WP-90033,L1,19.6
(W) R3	3C2	WP-90033,L1,80.6
(V) R4	3D2	WP-90033,L1,47.5
(W) R5	3C2	WP-90033,L1,100
(W) R6	3F2	WP-90020,L1,3.6K
(W) R7	3F2	WP-90020,L1,6.8K
(V) R8	3F3	WP-90020,L1,6.2K
(W) R9	3F3	WP-90020,L1,12.1K
R10	3E4	(ZM) WP-90033,L1,100 (ZN) KS-16311,L4F,100
R11	3E4	(ZM) WP-90033,L1,100 (ZN) KS-16311,L4F,100
R12	3F4	WP-90033,L1,165
R13	3F3	WP-90033,L1,165
(V) R14	3F5	WP-90033,L1,200
(W) R15	3F5	WP-90033,L1,165
R16	3F6	(ZQ) WP-90020,L1,6.2K (ZP) KS-20616,L1A,6.19K
R17	3E6	WP-90020,L1,470
R18	3F6	(ZQ) WP-90020,L1,6.2K (ZP) KS-20616,L1A,6.19K
R19	3F7	WP-90020,L1,470
(N) R20	3E7	(ZM) KS-20616,L1A,30.9K (ZN) KS-16311,L4F,30.9K
(F) R21	3F7	(ZM) KS-20616,L1A,15K (ZN) KS-16311,L4F,.15K
(R) R22	3E7	(ZM) KS-20616,L1A,6.98K (ZN) KS-16311,L4F,6.98K
R23	3E8	WP-90020,L1,3.3K

APP FIG.3

CABLE ASSEMBLY

DESIG	LOC	CODE
W2	2E6	(N,J) 843782665 (F,J,ZP) 845367473 (F,J,ZQ) 843782665

E/W

CONNECTOR

DESIG	LOC	CODE
(J) J1B	2D7	1-640440-5, AMP
(J) J3A	2D6	1-640440-5, AMP

CIRCUIT MODULE

DESIG	LOC	CODE
(J) CM3	2D7	2C7A

APP FIG.4

COMPONENT ASSEMBLY

DESIG	LOC	CODE
(E) CA2	1C2	ED-83183-30

E/W

CAPACITOR

DESIG	LOC	CODE
C8	1C2	PME289MB5220M,.022,RIFA
C9	1C2	PME289MB5220M,.022,RIFA
C10	1C1	PME289MB5220M,.022,RIFA
C11	1C1	PME289MB5220M,.022,RIFA
C12	1C2	PME289MB5220M,.022,RIFA
C13	1C2	PME289MB5220M,.022,RIFA

CONNECTOR

DESIG	LOC	CODE
P18	1C2	401799721
P19	1C1	401799721
P20	1C2	401799721
P21	1D1	401799721

INDUCTOR

DESIG	LOC	CODE
(E) L6	1D4	1214A
(E) L7	1F3	1214A

"LINEAGE"® 2000 RECTIFIER CIRCUIT
J85503

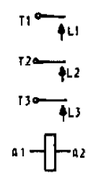
DWG SIZE: 8S
ISSUE: 5M

AT&T | SD-82605-01 | SHEET C2

APP. FIG.			5	6	7	8	11	12	13	14	REMARKS
OPTION			N,Q,S,V	N,Q,S,W	N,T,V	N,T,W	F,Q,S,V	F,Q,S,W	F,T,V	F,T,W	
COMPONENT	DESIG	LOC	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	
RELAY	K1	1B3, 1C3, 1D3, 1E1	(ZB,S) 425CXX106 (ZB,Q) 425CXX107	(ZC) ACC-330-8089C ARROW-HART	(ZB) 425CXX108 (ZC) ACC-330-8089D ARROW-HART		ACC430-8070C ARROW-HART 2200E8330BA-43-11-9 (LINE)	(ZT) ACC430-8030C ARROW-HART (ZJ) ACC430-8076C ARROW-HART 2200E8530BA-9 (LINE)-15-(ALL)	ACC430-8070D ARROW-HART 2200E8330KA-43-11-9 (LINE) (TELEMECHANIQUE)	ACC430-8070D ARROW-HART 2200E8330KA-43-11-9 (LINE) (TELEMECHANIQUE)	FOR TERMINAL NUMBERING SEE NOTES 1,3 & 7
CAPACITOR	C5	1E3	~~97F3251~~ ~~97F5151AA6,50~~ GECO NOTE 5 97F9009,50	~~97F3136~~ ~~97F5165AA6,35~~ GECO NOTE 5 97F9250,35	~~97F3251~~ ~~97F5151AA6,50~~ GECO NOTE 5 97F9009,50	~~97F3136~~ ~~97F5165AA6,35~~ GECO NOTE 5 97F9250,35	~~97F3150~~ ~~97F5151AA6,50~~ GECO NOTE 5 97F9009,50	~~97F3209~~ ~~97F5205AA6,35~~ ~~GECO~~ NOTE 5 ~~97F9250,35~~ ~~97F5205AA6,35~~ Z26P4435M0IA2 (AEROVOX)	~~97F3150~~ ~~97F5151AA6,50~~ GECO NOTE 5 97F9009,50	~~97F3209~~ ~~97F5205AA6,35~~ ~~GECO~~ NOTE 5 ~~97F9250,35~~ ~~97F5205AA6,35~~ Z26P4435M0IA2 (AEROVOX)	
	C7	1G2									
	C14	1G2					~~97F3136~~ ~~97F5165AA6,35~~ GECO NOTE 5 97F9250,35		~~97F3136~~ ~~97F5165AA6,35~~ GECO NOTE 5 97F9250,35		
	C15	1E4									
	C6	1E5					(ZF) WP-90004,L5, .022				
	C8	1G4									
CIRCUIT BREAKER	CBA1	1B8	KS-22010,L38				KS-22012,L51				
DIODE	CR2	1D3	(ZK) (P) 72HF20, INTERNATIONAL RECTIFIER ~~CORP~~, NOTE 2 (G) KS-19404,L1 (ZL) ~~KS-19404,L68~~ 150K80A, INTERNATIONAL RECTIFIER				IN4047 OR IN2057, WESTINGHOUSE OR (ZK) INTERNATIONAL RECTIFIER CORP. NOTE 4. (ZL) WP-91147,L88S				
	CR3	1D3									
	CR4	1F2									
	CR5	1F2									
INDUCTOR	L1	1E4	1126G	1126F	1126G	1126F	1375A	1373B	1375A	1373B	
	L2	1G2	1126G	1126F	1126G	1126F	1375A	1373B	1375A	1373B	
RESISTOR	R4A	1E5					(ZY) WP-90033,L1, 147Ω				SEE NOTE 8
	R4B	1G4									
SHUNT	R5	1A6	125-50, TYPE A, EMPRO CORP				250-50 TYPE A, EMPRO CORP				
TRANSFORMER	T1	1C3	3107A	3106A	3107D	3106D	3260A	3261A	3260C	3261C	
	T2	1E2	3107B	3106B	3107E	3106E	3260B	3261B	3260D	3261D	
	T3	1A4	(ZG) 3245A (ZU) 3245F (ZH) 3245C		(ZG) 3245B (ZU) 3245G (ZH) 3245D		(ZG) 3245A (ZU) 3245F (ZH) 3245C		(ZG) 3245B (ZU) 3245G (ZH) 3245D		FOR TERMINAL NUMBERING SEE NOTE 6

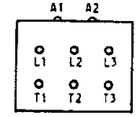
NOTES:

1. TERMINAL NUMBERING FOR 425CXX106, 425CXX107 AND 425CXX108 RELAYS IS:



2. EARLY PRODUCTION MAY USE WP-90160,L1 DIODE.

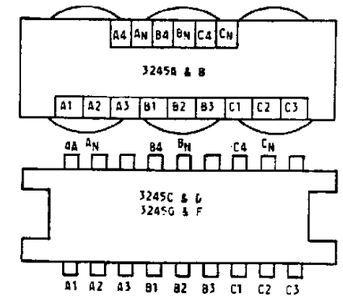
3. THE TERMINAL LOCATIONS FOR THE ARROW-HART RELAYS ARE:



4. THE CR2-CR5 DIODES SHALL BE OF THE SAME CODE AND SOURCE.

5. THE LINED OUT CODES IN STOCK MAY BE USED ONLY IF THEIR CAPACITANCE MEASURES TO WITHIN ±6% OF THE NOMINAL.

6. THE TERMINAL LOCATIONS OF THE TRANSFORMERS ARE:



7. THE PREFERRED CONTACTOR IS THE TELEMECHANIQUE BUT THE ARROW-HART IS AN APPROVED SUBSTITUTE.

8. EARLY PRODUCTION UNITS MAY USE 487Ω OR 140Ω.

"LINEAGE"® 2000 RECTIFIER CIRCUIT J85503

DWG SIZE: 8S

ISSUE: 11M

AT&T

SD-82605-01

SHEET: C3

APP FIG			9		10		15		16		NOTE
OPTION			N,A,V	N,A,W			F,A,V	F,A,W	F,ZA,V	F,ZA,W	
COMP	DESIG	LOC	CODE		CODE		CODE		CODE		
CAPACITOR	C1	1A4	(V) KS-20133,L114, 58000 (W) KS-22688,L3,75000								
	C2	1B4	(W) KS-22688, L3,75000				(V) KS-20133,L114,58000				
	C3	1C5	(W) KS-22688,L3,75000								
	C4	1A6					-		(V) KS-20133, L114,58000		
DIODE	CR6	1A5			(W) WP-91362,L2AR (F,W) D75NR4008 MOD 1				(W) WP-91362,L2AR (F,W) D75NR4008 MOD 1		SEE NOTE 1
	CR7	1A5			(W) WP-91362,L2A (F,W) D75N4008 MOD 1				(W) WP-91362,L2A (F,W) D75N4008 MOD 1		SEE NOTE 1
FUSE	F1	1B5	KS-19780,L6,30A								
	F2	1B5									
	F3	1C5	(W) KS-19780,L6,30A								
	F4	1B5	-						(V) KS-19780, L6,30A		
	FA1	1B5	70G								
	FA2	1B5									
	FA3	1C5	(W) 70G								
	FA4	1B6	-		-		-		(V) 70G		
INDUCTOR	L3	1C4	(V) 1125C (W) 1125B				(V) 1128C (W) 1128B				
	L4	1A5	(W) 1125C				-		1128C		
	L5	1C5	(V) 1125C				-				

(F,B) APP. FIG. 17

CIRCUIT BREAKER

DESIG	LOC	CODE
CBA2	1B8	KS-22012,L51 SEE NOTE 324

NOTES:

1. EARLY PRODUCTION UNITS MAY USE WP91362, L2AR OR 72 HFR20 FOR CR6 AND WP91362, L2A OR 72HF20 FOR CR7.

"LINEAGE" ® 2000 RECTIFIER CIRCUIT J85503

DWG SIZE: 6S | ISSUE: 9B

AT&T | SD-82605-01 | SHEET C4

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
BATTERY SYMBOL			VOLTAGE RANGE

FOR AC REQUIREMENT, SEE NOTE 308.

EQUIPMENT NOTES:

201. ALL 26A AND 4/0 WIRE SHALL BE KS-20921,L1.

202. ALL WIRING SHALL BE KS-22247,L4 STRANDED UNLESS OTHERWISE SPECIFIED.

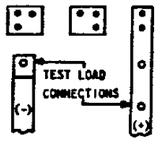
203. ALL WIRING OF UNSPECIFIED SIZE SHALL BE 22GA.

204. THIS WIRING SHALL BE KS-22247,L5 STRANDED.

205.

J85503B OUTPUT CONNECTIONS

BATTERY POLARITY	OUTPUT LEAD LOCATIONS		
NEG BATTERY WITH END CELLS (2,8)	- END CELL	- BAT	+ GRD
POS. BATTERY (1)	NOT EQUIPPED	- GRD	+ BATT
NEG. BATTERY (2)	NOT EQUIPPED	- BAT	+ GRD



206. USING RELEASABLE CABLE TIES PROVIDED WITH THE RECTIFIER, SECURE THE PLANT CONTROL CABLE TO THE ONE UPPER MOST TIE ANCHOR ON THE LEFT SIDE PANEL AND THE THREE UPPER MOST TIE ANCHORS ON THE DOOR.

20Z TB1 NOT USED ON J85503B-1. INPUT CONDUCTORS CONECT DIRECTLY TO K1.

325. 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 8013277-11 WHICH CONSISTS OF 17 INCHES OF 1 1/4 INCHES FLEX STEEL CONDUIT, (2) KS20788L39 CONNECTORS & (2) KS20788 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 3115 CONNECTORS, (2) T&B 3707 REDUCING WASHERS & (2) T&B 223 INSULATING BUSHINGS.

326. REMOVE THE PROPER WIRE STRAPS AND RESISTORS ON (CMI) OPTION BOARD PER THE FOLLOWING TABLE:

ED 83159-30 GROUP 1A OR 2 (CMI) BOARD OPTIONS FOR J85503A-1 AND J85503B-1			
OPTION		KEEP STRAPS OR RESISTORS MARKED WITH	REMOVE STRAPS OR RESISTORS MARKED WITH
100-AMPERE OUTPUT (J85503A-1)		N	F,R
200-AMPERE OUTPUT (J85503B-1)		F	N,R
24 VDC OUTPUT		V	W
48 VDC OUTPUT		W	V
EM CELL CHARGING (LI7) OF J85503A-1 OR J85503B-1	EQUIPPED		K,M & "K,M"
	NOT EQUIPPED	K,M & "K,M"	
NOTE: FOR INITIAL BATTERY CHARGING, REMOVE STRAPS MARKED "K" AND "M" (NOT K,M). WHEN COMPLETED, REPLACE THE STRAPS.			

INFORMATION NOTES: (CONT)

315. DIFFERENT VERSIONS OF THE CMI OPTION BOARD HAVE OPTIONS INCLUDED AND SHOULD BE USED IN DIFFERENT RECTIFIERS AS FOLLOWS:

VERSION	OPTIONS	RECTIFIER	
		100A	200A
ED-83159-30	ZM,ZO	OK	NO
ED-83159-30 GRP3			
ED-83159-30 GRP1A	ZN,ZO		
ED-83159-30 GRP2	ZN,ZP	NO	OK

316. THE P25 AND P26 CONNECTORS PROVIDE A DC SIGNAL PROPORTIONAL TO THE RECTIFIER OUTPUT CURRENT. P25-P26 ARE NOT INCLUDED IN EARLY PRODUCTION.

317. THE 200 AMPERE RECTIFIERS MUST USE 207A DIGITAL METER, SERIES 3 OR HIGHER.

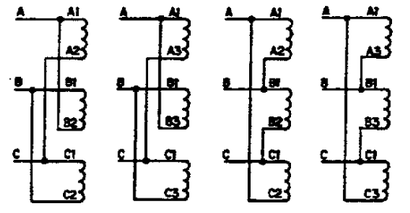
318. 200A RECTIFIER USED FOR BATTERYLESS OPERATION MUST USE 208C CONTROL MODULE (OPTION YC). ALL OTHER 200A RECTIFIERS MUST USE 208A CONTROL MODULE, SERIES 5 OR HIGHER.

319. PRIOR TO ISSUE 5R, COLUMNS HEADED "STD", "MD", ETC., CONVEYED APPLICATION INFORMATION. AT ISSUE 5R, COLUMNS HEADED "AVAIL" AND "DA" NOW INDICATE THE AVAILABILITY OF THE PRODUCT

320. ON EARLY PRODUCTION UNITS, IF THE 3245C OR D TRANSFORMERS ARE BEING REPLACED BY A 3245F OR G, A WIRING KIT WILL BE FURNISHED TO FACILITATE REPLACEMENT. ON 100 AMPERE RECTIFIERS, USE OF THE 3245F OR G TRANSFORMERS REQUIRES THAT THE CONTROL CIRCUIT BE UPGRADED TO 208A SERIES 5 OR HIGHER.

321. OPTIONS FOR EACH CODE ARE APPLICABLE TO TRANSFORMER T3 OF FS1.

(ZG,Q) 3245A
(ZG,S) 3245A (ZH,Q) 3245C (ZU,Q) 3245F
(ZH,S) 3245C (ZH,T) 32450 (ZU,S) 3245F (ZU,T) 3245G



322. IN THE J85503A (100A) RECTIFIER, ALL LIST 1, LIST 2, LIST 3 & LIST 4 UNITS WHICH CONTAIN THE ZG OPTION 3245A TRANSFORMER, MUST HAVE THEM REPLACED BY THE ZU OPTION 3235F TRANSFORMER. ALL LIST 5 & LIST 6 WHICH CONTAIN THE ZG OPTION 3245B TRANSFORMER MUST HAVE THEM REPLACED BY THE ZU OPTION 3245G TRANSFORMER

323. 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 405043864) 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 ACCOMODATE THE NEW L.E.D.

324. CBA2 IS ONLY OFFERED FOR 200 AMP RECTIFIER. FOR 100 AMP RECTIFIER, END CELL CHARGING CAPABILITY IS OFFERED WITHOUT ADDITIONAL CIRCUIT BREAKER. J85503A-1 E/W L17 CAN ONLY BE USED IN RECTIFIER BAY EQUIPPED WITH EXTERNAL EM CELL CHARGING BUS SWITCH, SUCH AS J87248 4-PACK RECTIFIER BAY OF 302A OR 302B PLANT.

"LINEAGE"® 2000 RECTIFIER CIRCUIT
J85503

DWG SIZE: 8S
ISSUE: 12A
AT&T
SD-82605-01
SHEET: 01

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS,
CAPACITANCE VALUES ARE IN MICROFARADS,
INDUCTANCE VALUES ARE IN MILLIHENRIES,
VALUES PRECEDED BY THE SYMBOL + (PLUS)
OR - (MINUS) ARE IN VOLTS.

302. CM1 IS MANUFACTURED WITH ALL OPTION STRAPS AND RESISTORS IN PLACE. CUT UNNECESSARY STRAPS AND REMOVE EXTRA RESISTORS AS REQUIRED. REFER TO NOTE 307 AND 308.

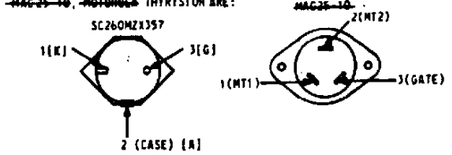
FEATURE OR OPTION				PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
OUTPUT GROUND		NEGATIVE		1,2	Y	1
		POSITIVE			Z	
EMI FILTERING FOR AUTOPLEX APPLICATIONS (NOTE 312)		EQUIPPED		4	E	1
		NOT EQUIPPED		-	K	
100 AMPERE OUTPUT W/O END CELL CHARGING					M,K, N	
	208VAC INPUT	24V OUTPUT		5	V,S	1
		48V OUTPUT		6	W,S	
	240VAC	24V		5	V,Q	
		48V		6	W,Q	
	480VAC	24V		7	V,T	
		48V		8	W,T	
	OUTPUT FILTER	STD	24V	9	V,A	
			48V		W,A	
	METER	DIGITAL		3	J	1
		NONE		-	-	
				3	J,F	1
200 AMPERE OUTPUT NOTES 307& 308 — BATTERY APPLICATION	208VAC INPUT	24V		11	V,S	1
		48V		12	W,S	
	240VAC	24V		11	V,Q	
		48V		12	W,Q	
	480VAC	24V		13	V,T	
		48V		14	W,T	
	OUTPUT FILTER	STD	24V	15	V,A	1
			48V		W,A	
		SPL	24V	16	V, ZA	
			48V		W,ZA	
	END CELL CHARGING	EQUIPPED		17	B	1
		NOT EQUIPPED		-	K,M	
BATTERY ASS OPERATION	208VAC INPUT	SPL OUTPUT FILTER	48V	1, 12, 16	W, S, ZA, YC	1
400 AMPERE OUTPUT (FS 2 ONLY)				-	R	

INFORMATION NOTES: (CONT)

303.

RECORD OF APP FIGURES, WIRING AND APPARATUS CHANGES							
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	USE IN CIRCUIT A&R	USE IN CIRCUIT MD
3B	D OR U	U		D		U
	G OR P	P		G		P
	ZC OR ZB	ZB		ZC		ZB
	ZE OR ZD	ZD		ZE		ZD
	-	NONE		ZF		
	ZG OR ZH	ZG		ZH		ZG
	ZI OR ZJ	ZI		ZJ		ZI
				AVAIL		DA
5A SEE NOTE 319	ZO OR ZP	ZO	315	ZP		ZJ
	ZQ OR ZR	ZQ		ZR		ZQ
	ZM OR ZN	ZM	315	ZN		ZM
	ZU	ZM	320	ZU		ZH
6M	ZV OR ZX	ZX		ZV		ZX
		NONE		ZY		
	ZZ OR YA	ZZ		YA		ZZ
	0 OR ZW	0		ZW		0
7M	YB OR YC	YB	348	YB,YC		
8A	ZG OR ZU	ZG	322	ZU		ZG
9M	YD OR YE	YD	323	YE		YD
	ZW OR YF	ZW		YF		ZW
10M	YB OR YC	YB		YB		YC
13A	YF OR YB	YF		YB		YF

304. THE TERMINAL NUMBER ASSIGNMENTS OF THE SC260MZX357,GE CC. & ~~MAC25-10~~, ~~MOTOROLA~~ THYRISTOR ARE:



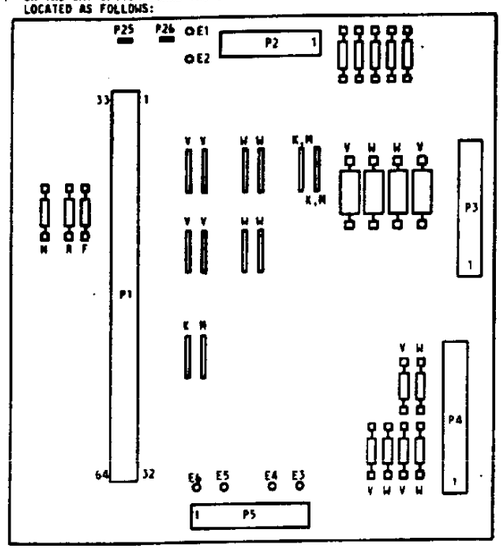
305.

	TAPS	LINE VOLTAGE RANGE	NOM VOLTAGE
T3	S,Q OPTION		
	$A_2.B_2.C_2$	184-220	208
	$A_3.B_3.C_3$	212-254	240
	T OPTION		
	$A_3.B_3.C_3$	424-508	480
T2	S,Q OPTION		
	2	184-220	208
	3	212-254	240
	T OPTION		
	3	424-508	480
T1	S,Q OPTION		
	2,4	184-220	208
	1,5	212-254	240
	T OPTION		
	1,5	424-508	480

INFORMATION NOTES: (CONT)

306. DO NOT PARALLEL WITH THE RS LEADS OF J87434 OR J87435 RECTIFIERS.

307. ON THE CM1 OPTION BOARD THE OPTION STRAPS AND RESISTORS ARE LOCATED AS FOLLOWS:



308.

AC POTENTIAL	OUTPUT VOLTS	OUTPUT AMPS	LINE FUSES** TYPE FM	LINE FUSES** UL APP'D FUSE, BUSSMANN	INPUT CONDUCTORS KS-5482-01	INPUT CONDUCTORS KS-20785*
S 208,220	V 24	N 100	15	FRN-R 15	4-#14	3-#14
		F 200	30	FRN-R 30	4-#10	3-#10
	W 48	100	25	FRN-R 25	4-#10	3-#10
		200	50	FRN-R 50	3-#6,1-#10	3-#6
U 230,240	24	100	15	FRN-R 15	4-#14	3-#14
		200	25	FRN-R 25	4-#10	3-#10.
	48	100	25	FRN-R 25	4-#10	3-#10
		200	45	FRN-R 45	3-#6,1-#10	3-#6
T 480	24	100	15	FRS 10	4-#14	3-#14
		200	15	FRS-R 15	4-#14	3-#14
	48	100	15	FRS-R 15	4-#14	3-#14
		200	25	FRS-R 25	4-#10	3-#10

* KS-20785 COMES EQUIPPED WITH A BARE GROUND CONDUCTOR.
** THREE PER RECTIFIER.
‡CIRCUIT BREAKERS WITH SAME RATING AS FUSE CAN BE USED.

309. THE PLANT CONNECTION IS MADE WITH H285-224, L( ) CABLE ASSEMBLY PER SD-82588-01.

INFORMATION NOTES: (CONT)

310. THE ISOLATED CURRENT MEASURING CIRCUIT ON THE 208A OR 208C CIRCUIT MODULE CAN BE ADJUSTED IN AN OPERATING RECTIFIER BY FOLLOWING THE PROCEDURE OUTLINED BELOW:

1. THE "E" TEST POINTS SHALL ALWAYS BE POSITIVE WITH RESPECT TO EITHER E17 OR E14 TERMINALS FOR ALL VOLTAGE REQUIREMENTS.
2. WITH THE RECTIFIER TURNED ON AND DELIVERING CURRENT, ADJUST ITS OUTPUT VOLTS ADJ POTENTIOMETER SO THAT THE OUTPUT AMMETER INDICATES ZERO CURRENT.
3. USING A DVM MEASURE THE VOLTAGE APPEARING BETWEEN TEST POINT E5 AND E14. THIS VOLTAGE SHALL BE LESS THAN 0.5 VOLTS.
4. MEASURE AND RECORD THE VOLTAGE AT E6 WITH RESPECT TO E17. THIS VOLTAGE SHALL BE 5.59 TO 6.41 VOLTS. THIS VOLTAGE WILL BE REFERRED TO AS V6.
5. MEASURE THE VOLTAGE AT E11 WITH RESPECT TO E14 AND IF NECESSARY, ADJUST POTENTIOMETER R87 SO THAT THE VOLTAGE AT E11 = (1.1667x V6) - 1. THE V6 VOLTAGE IS THAT WHICH WAS OBTAINED IN STEP 4.
6. CONNECT THE DVM ACROSS E7 AND E17 AND ADJUST POTENTIOMETER R86 SO THAT THIS VOLTAGE IS 2.0 VOLTS. IF THIS ADJUSTMENT IS NOT POSSIBLE, THEN IT WILL BE NECESSARY TO REPEAT THIS PROCEDURE STARTING WITH STEP 2.
7. ADJUST THE VOLTS ADJ POTENTIOMETER SO THAT THE RECTIFIER IS DELIVERING APPROXIMATELY 10 AMPERES AS READ ON THE OUTPUT AMMETER. THIS CAN BE MEASURED MORE ACCURATELY BY MEASURING THE VOLTAGE APPEARING ACROSS THE SHUNT TERMINALS. THE VOLTAGE READ WILL BE IN MILLIVOLTS. EACH AMPERE READ ON THE METER IS EQUAL TO 2.5 AMPS/MV ON 100 AMPERE RECTIFIERS AND 5 AMPS/MV ON 200 AMPERE RECTIFIERS.
8. BASED ON THE READING OBTAINED IN STEP 7, MEASURE THE VOLTAGE APPEARING ACROSS E7 AND WITH RESPECT TO E17. THIS VOLTAGE SHALL BE: V7 = 2V + (V SHUNT x 160). THE TABLE BELOW SHOWS SAMPLE MEASUREMENTS.

SHUNT VOLTAGE MILLIVOLTS	OUTPUT CURRENT 100A	OUTPUT CURRENT 200A	VOLTAGE ACROSS E5 TO E14	VOLTAGE ACROSS E7 TO E17
10.0	25A	50A	800MV± 2%	3.60V± 2%
20.0	50A	100A	1.60V± 2%	5.20V± 2%
30.0	75A	150A	2.40V± 2%	6.80V± 2%
40.0	100A	200A	3.20V± 2%	8.40V± 2%

NOTES:

1. THE FOLLOWING EQUIPMENT IS NEEDED TO PERFORM THE TESTS SHOWN ABOVE:
   (a) DIGITAL METER
   (b) CALCULATOR
   (c) TRIMPOT SCREWDRIVER
2. THE VOLTAGE APPEARING ACROSS E5 TO E14 IS 80 TIMES THE MILLIVOLT READING OBTAINED ACROSS THE SHUNT ±10%.

311. WHEN THE CM3 DIGITAL METER IS FIRST INSTALLED IN RECTIFIER, ADJUST THE R15 POTENTIOMETER ON CM3 TO OBTAIN 1.000 VOLT BETWEEN E1 AND E2. USE KS-22861,L1 METER OR EQUIVALENT.

312. THE EMI FILTERING PER E OPTION IS ONLY FOR THE 200 AMP, 24V RECTIFIERS WHEN USED IN THE AUTOPLEX APPLICATIONS.

313. AC EQUIPMENT GROUND CONDUCTOR SHALL BE PROVIDED AS SPECIFIED IN ATTP 802-001-180 (ATTP 802-001-198).

314. PROVIDE A NO. 4 (F OPTION) OR A NO. 6 (W OPTION) AWG KS-5482-01 FRAME GROUNDING CONDUCTOR FROM THE BAY FRAMEWORK THAT MOUNTS THE RECTIFIER TO THE C.O. GRD SYSTEM IN ACCORDANCE WITH FRAME GROUNDING REQUIREMENTS PER ATTP 802-001-180. WHEN THE C.O. GRD SYSTEM IS NOT INSTALLED IN THE OFFICE AND THE RECTIFIER IS ASSOCIATED WITH: (A SINGLE CONDUCTOR MAY BE MULTIPLED TO GROUND ALL RECTIFIER BAYS.)

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 (IE., ATER 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.

INFORMATION NOTES CONTINUED ON SHEET D1.

"LINEAGE"® 2000 RECTIFIER CIRCUIT
J85503

DWG SIZE: D
ISSUE: 13M
SHEET: D2

AT&T | SD-82605-01

THE FOLLOWING TABLE DOCUMENTS THE CONNECTIONS REQUIRED FROM P2A OF THE CM2 CIRCUIT PACK OF J85503 RECTIFIER TO SELECTED CONTROL UNITS.

TABLE A

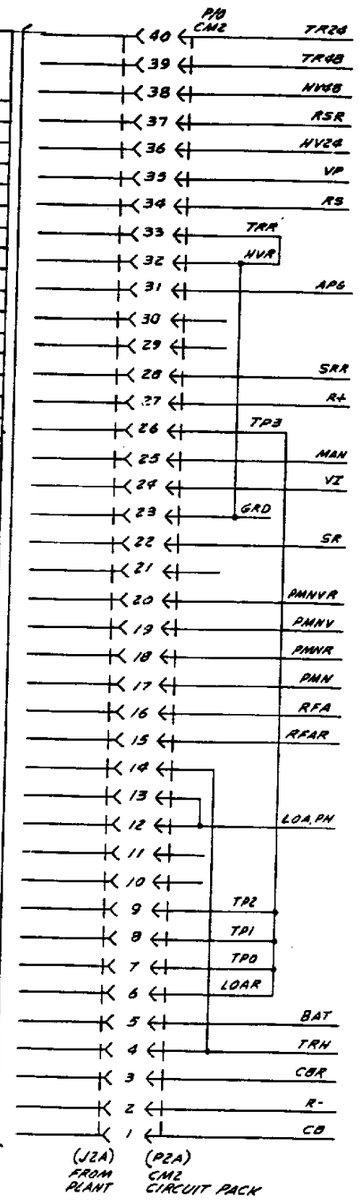
RECTIFIER CM2 CARD	CONTROL UNITS						BATTERYLESS OPERATION SEE NOTE 2
	MCS LINEAGE J85501A	CONVENTIONAL LINEAGE J85501A AND J85516 A,B,C	111A PLANT	326 PLANT	303A PLANT	LINEAGE J85501B	
1	CB	CB	RFA	RFA	RFA	CB	CB
2 NOTE 1	RG (RB)	RG (RB)	RG (RC)	RG (RB)	RG (RB)	RG(RB)	RG (RB)
3	CBR	CBR	(PLANT)GRD	(PLANT)GRD	(PLANT)GRD	CBR	CBR
4	TRH						
5	BAT	BAT	CBS	CONT	CBS BAT	BAT	BAT
6	OPG	LOAR				LOAR	LOAR
7	TPO						
8	TP1						
9	TP2						
10							
11							
12	PH	LOA				LOA	LOA
13		STRAP TO 14	STRAP TO 14	STRAP TO 14	STRAP TO 14	STRAP TO 14	STRAP TO 14
14		STRAP TO 13	STRAP TO 13	STRAP TO 13	STRAP TO 13	STRAP TO 13	STRAP TO 13
15	RFAR	RFAR				RFAR	RFAR
16	RFA	RFA				RFA	RFA
17		PMN	RFA	RFA	RFA		PMN
18		PMNR	(PLANT) GRD	(PLANT) GRD	(PLANT) GRD		PMNR
19		PMNV					PMNV
20		PMNVR					PMNVR
21							
22	STRAP TO 28	STRAP TO 28	STRAP TO 28	STRAP TO 28	STRAP TO 28	STRAP TO 28	
23		GRD					GRD
24	V1						
25	MAN						
26	TP3						
27 NOTE 1	RB (RG)	RB (RG)	RC(RG)	RB(RG)	RB (RG)	RB(RG)	RB(RG)
28	STRAP TO 22	STRAP TO 22	STRAP TO 22	STRAP TO 22	STRAP TO 22	STRAP TO 22	
29							
30							
31	APG						
32		HVR					HVR
33		TRR				TRR	TRR
34 NOTE 306	RS	FS		RS		RS	RS
35	VP						
36(24V PLANT)	HV	HV	HV	HV	HV	HV	HV
37 NOTE 306	RSR	RSR		RSR		RSR	RSR
38 (48V PLANT)	HV	HV	HV	HV	HV	HV	HV
39 (48V PLANT)	TR	TR	TR	TR	TR	TR	TR
40 (24V PLANT)	TR	TR	TR	TR	TR	TR	TR

NOTES:

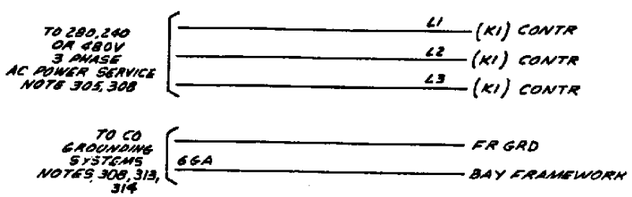
1. THE R- LEAD, PIN 2 OF P2A, MUST BE CONNECTED TO NEGATIVE VOLTAGE FROM THE POINT OF REGULATION. THE R+ LEAD, PIN 27 OF P2A, MUST BE CONNECTED TO A POSITIVE VOLTAGE FROM THE POINT OF REGULATION. THE PLANT LEAD DESIGNATIONS SHOWN WITHOUT BRACKETS ARE FOR A POSITIVE PLANT (NEGATIVE GROUND). THE PLANT LEAD DESIGNATIONS SHOWN IN BRACKETS ARE FOR A NEGATIVE PLANT (POSITIVE GROUND).
2. FOR BATTERYLESS OPERATION, J85503B-1 LISTS 2, 16 & G (48V 200A) RECTIFIER SHALL BE USED. THIS RECTIFIER IS EQUIPPED WITH 208C CONTROL BOARD (OPTION YC).

CAD 1

POWER PLANT CONNECTIONS
NOTE 306, 309

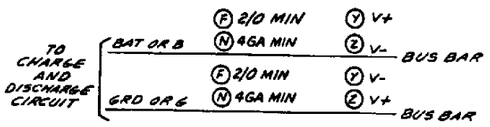


CAD 2

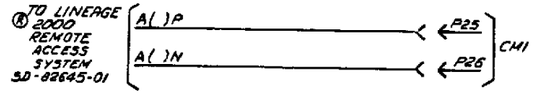


(Y,Z) CAD 3

NOTE 205



CAD4



"LINEAGE"® 2000 RECTIFIER CIRCUIT J85503

DWG SIZE: B5 | ISSUE: 7M

AT&T | SD-82605-01 | SHEET: G1