DWG ISSUE	CD ISSUE	DATE ISSUED	[illegible]	APPD
1	1	4-6-84	ZEM WF	WZ [illegible]
2B	2B	11-13-85		
3B	3B	6-[illegible]	[illegible]	[illegible]
4B	3B	[illegible]	[illegible]	TJB
5B	4B	[illegible]	RCS	RCS
6B	5B	[illegible]	RCS	RCS
7B	5B	10-8-92	RCS	RCS
8B	5B	8-4-93	[illegible]	[illegible]

SHEET INDEX

CONTENTS	SHEET NO.	SHEET ISSUE NO.
SHEET INDEX SUPPORTING INFORMATION OPTION INDEX	A1	8
CANCELLED ON ISSUE 2	A#1	1
FS1	B3	8
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	B#2	2
CANCELLED ON ISSUE 7	B#3	3
FS2-74 TYPE FILTER FUSE PANEL	B#4	2
FS3 HIGH CURRENT FUSE PANEL	B#5	2
FS4 CHARGE CIRCUIT	B#6	3
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FS6 74 TYPE FILTER FUSE PANEL	B#8	2
FS7 IS A CHARGE CIRCUIT	B9	3
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CIRCUIT NOTES EQUIPMENT NOTES	D1	3
INFORMATION NOTES	D#1	6
CAD 1 & 2	G1	2

OPTION INDEX

APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION
Z	DA2		APP FIG 2;4E1,4E8
Y	2		APP FIG 4;6A4 APP FIG 6
X	2		APP FIG 2,4E1,4E8
W	3		APP FIG 4
V	3		APP FIG 7
P	8		APP FIG 1
S	5		APP FIG 1
T	5		APP FIG 1
Q	6		APP FIG 2,5,6
R	6		APP FIG 2,3,4

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING	J863340
MAINTENANCE SPEC	201-224-101
MANUFACTURE TESTING REQUIREMENTS	X-79.10
PRODUCT DEVELOPMENT	J86334
PROFILE (PDP)	8602-802-0004

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING.

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8N99

POWER SYSTEMS
DC POWER
DISTRIBUTING FRAME
J863340

DWG SIZE 6B

ISSUE 8B

AT&T

SD-82619-01

SHEET A1 OF 19 SHEETS

E-7419 (8-79)
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PART OF FS1

74 TYPE FUSE PANEL

FILTER FUSE PANEL A (FS2)

350 MCM
VRTN( )
INVOLT( )

F1( )
NOTE 104
F4( )
NOTE 104
F5( )
F8( )
F9( )
F12( )
F13( )
F16( )
F17( )
F20( )
F21( )
NOTE 104
F24( )

TO LOADS NOTE 106

FB1
FB2
FB3
FB4
FB5
FB6
FB7
FB8
FB9
FB10
FB11
FB12

AL 1A
AL 2A
24GA

TO CONTROL PANEL

AL 1B
AL 2B

FILTER FUSE PANEL B (FS2)

AL 1C
AL 2C

FILTER FUSE PANEL C (FS2)

AL 1E
AL 2E

FILTER FUSE PANEL D (FS2)

AL 1G
AL 2G

AL 1D
AL 2D

AL 1F
AL 2F

AL 1H
AL 2H

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DC POWER
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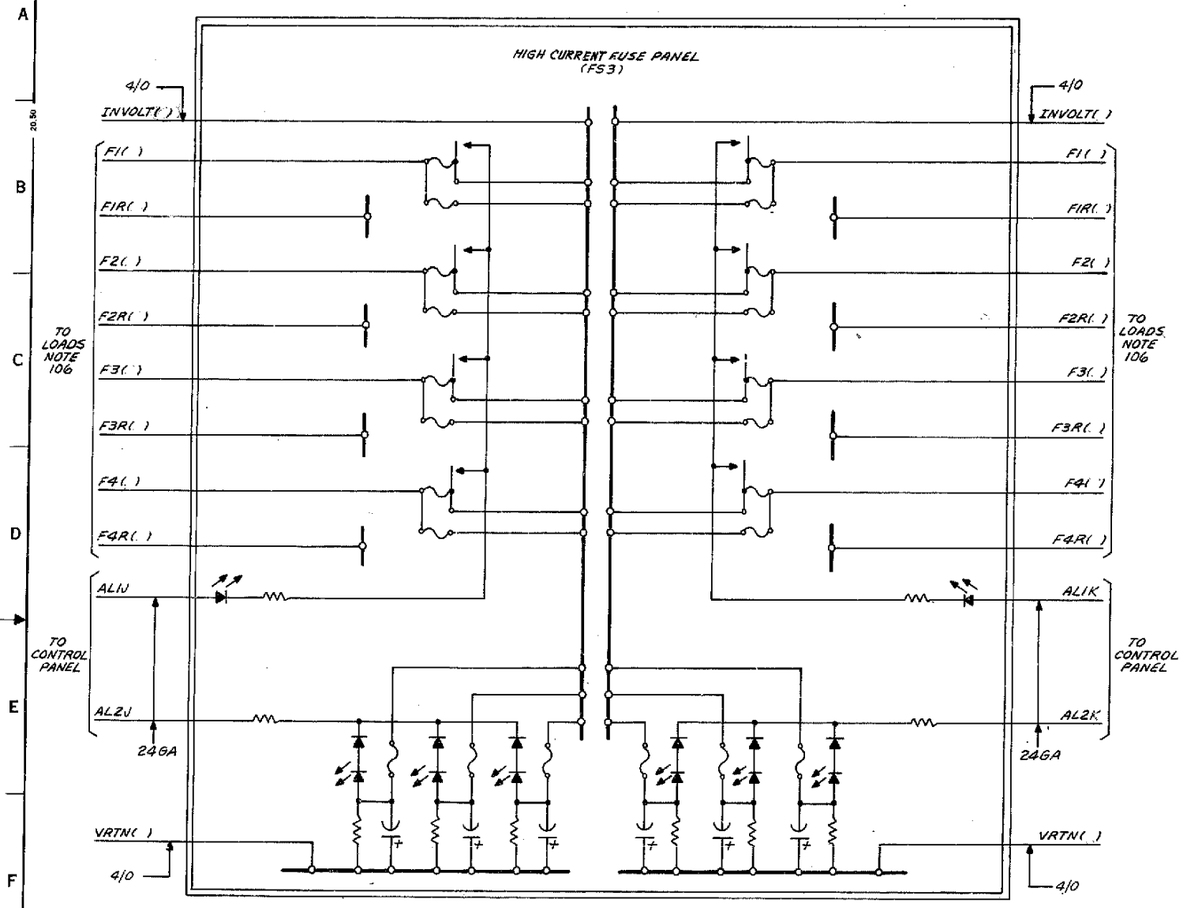
J86334D

DWG SIZE 6S
ISSUE 2B

AT&T
SD-82619-01
SHEET B#1

PART OF FS1



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DC POWER
DISTRIBUTING FRAME
J86330D

DWG SIZE 6S

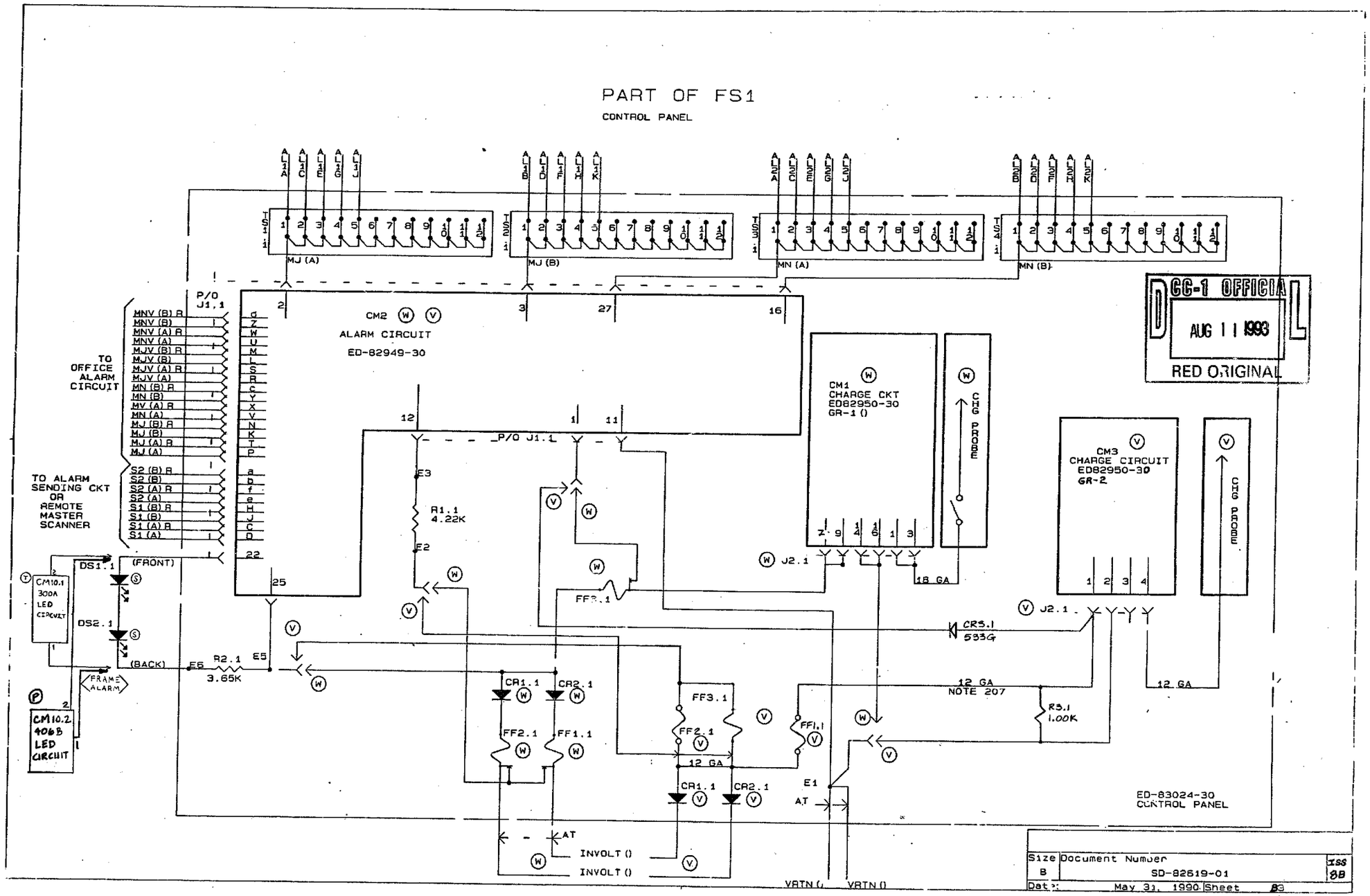
ISSUE 2B

AT&T SD-82619-01

SHEET B#2

PART OF FS1

CONTROL PANEL



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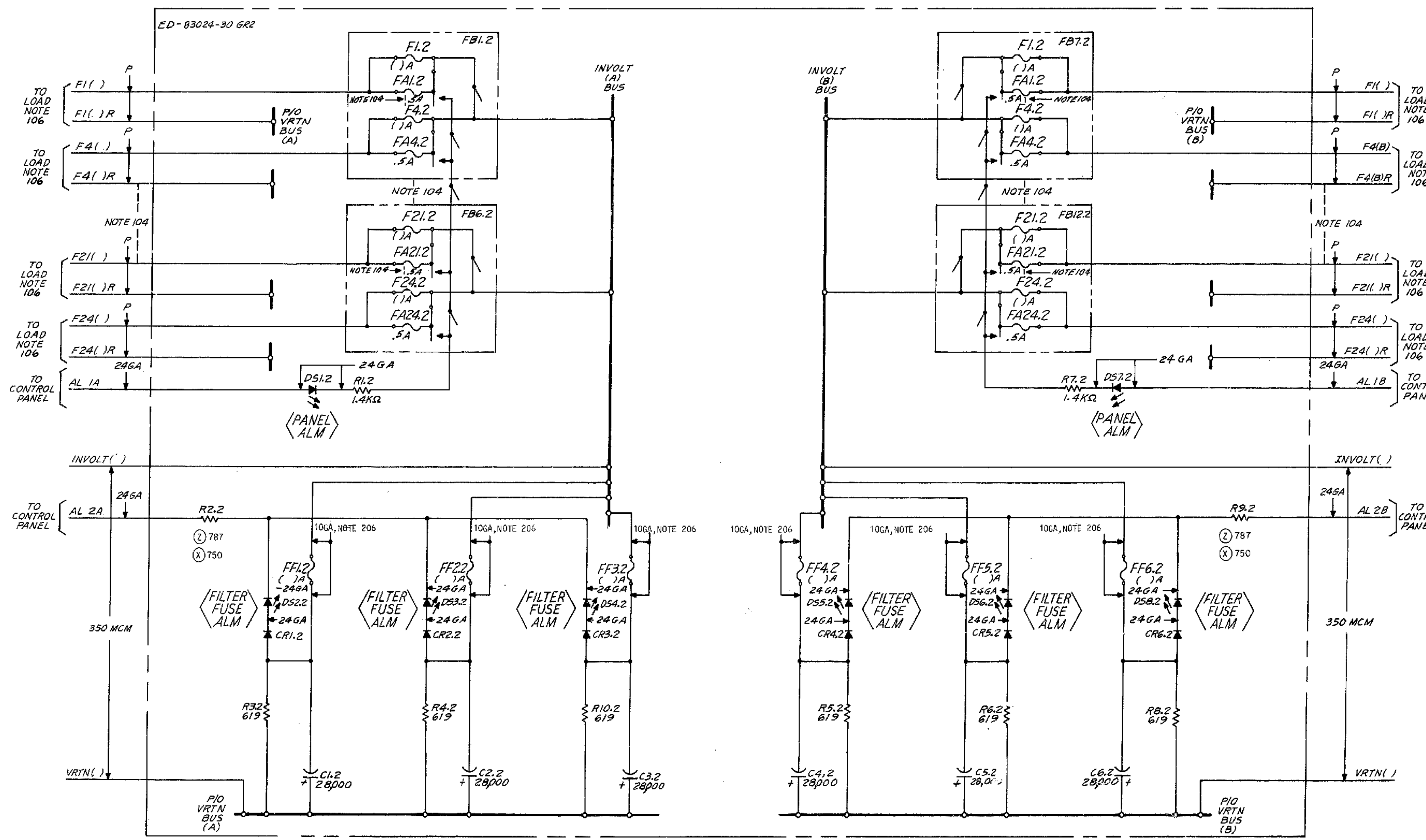
Size	Document Number	ISS
B	SD-82619-01	3B
Date: May 31, 1990	Sheet 83	

FS 2

74 TYPE FILTER FUSE PANEL

(NOTES 102, 104, 106, 107, 108, 109, 206, 302, 304, 305 & 306)



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DC POWER DISTRIBUTING FRAME J86334D

DWG SIZE	ISSUE
6S	2B

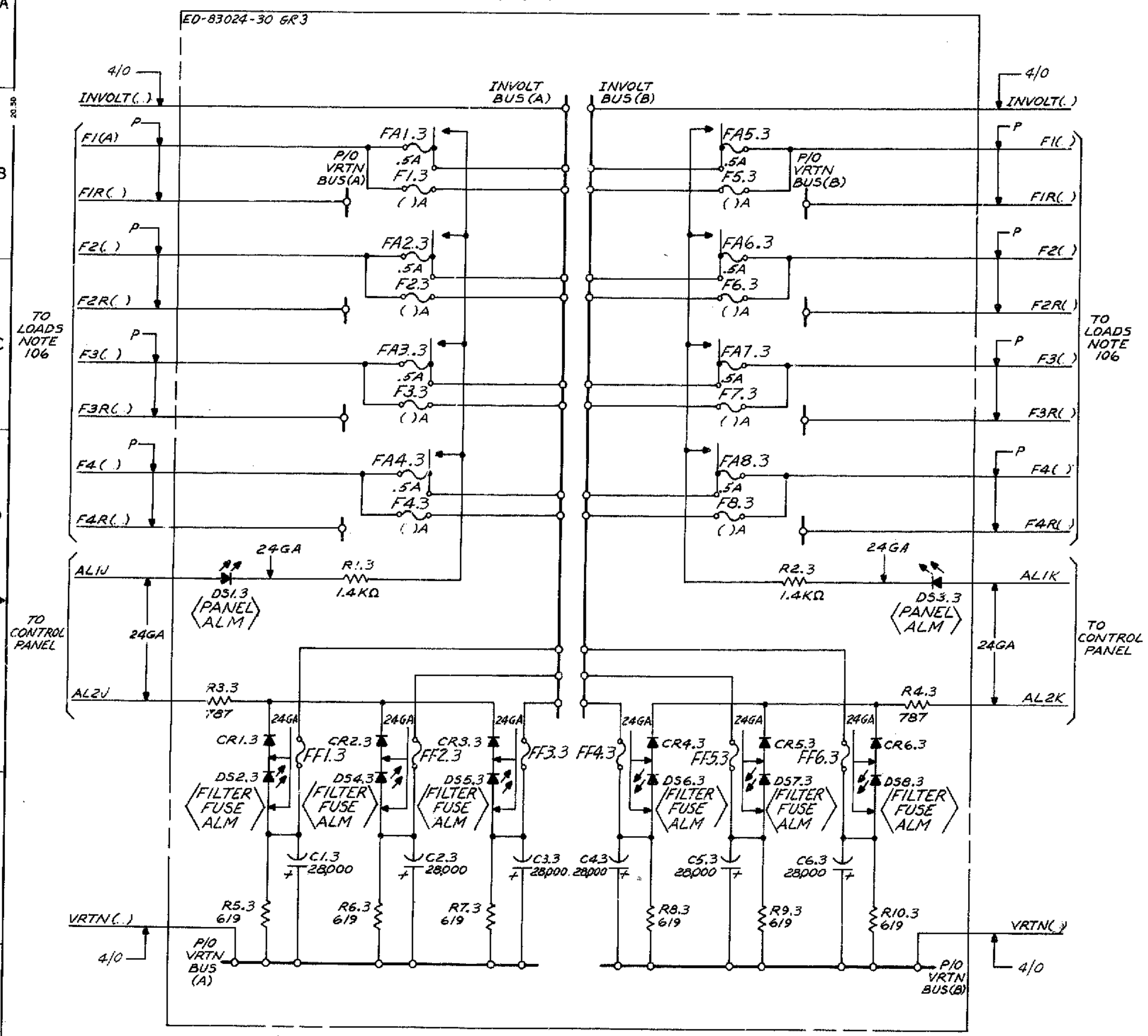
AT&T

SD-82619-01

SHEET B#4

FS 3

HIGH CURRENT FUSE PANEL
(NOTES 103,104,106,107,109 & 302)



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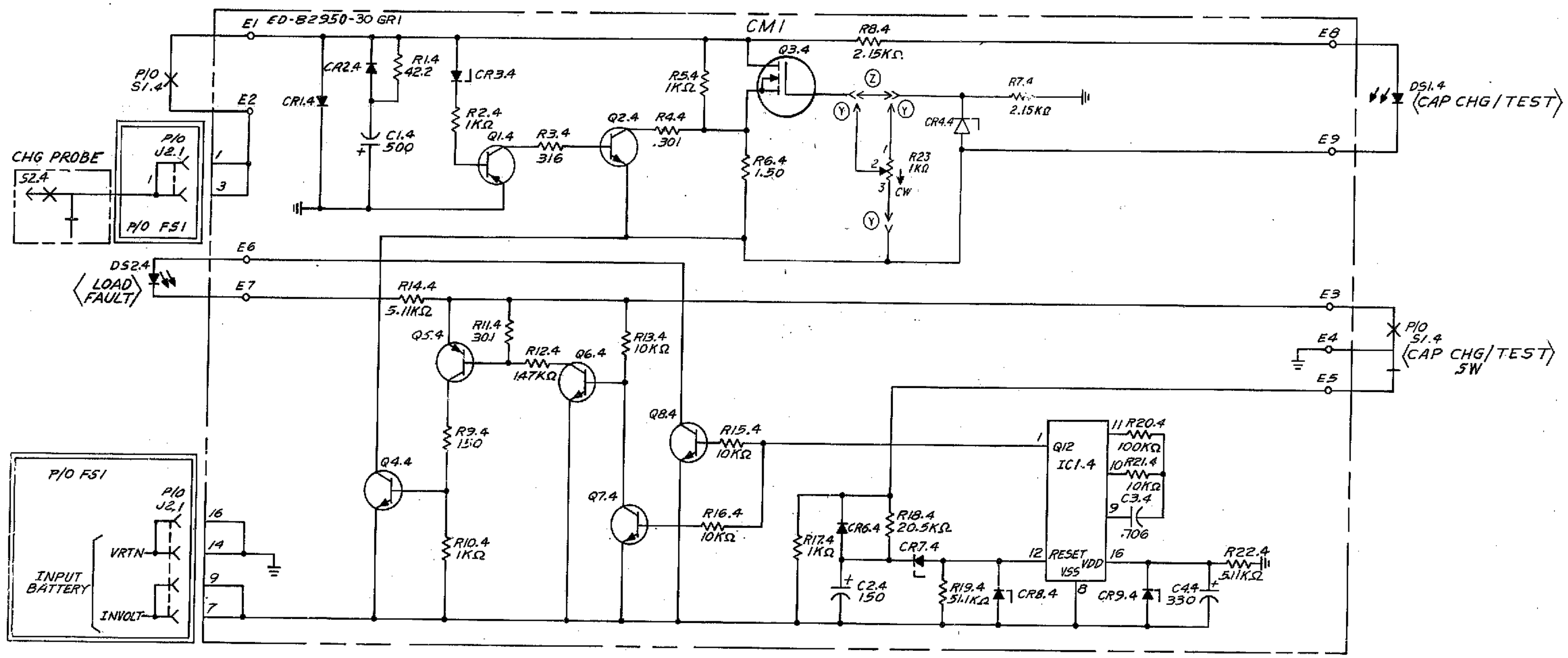
DC POWER DISTRIBUTING FRAME J86334D	DWG SIZE 6S	ISSUE 2B
AT&T	SD-82619-01	SHEET B#5

FS 4 W

CHARGE CIRCUIT



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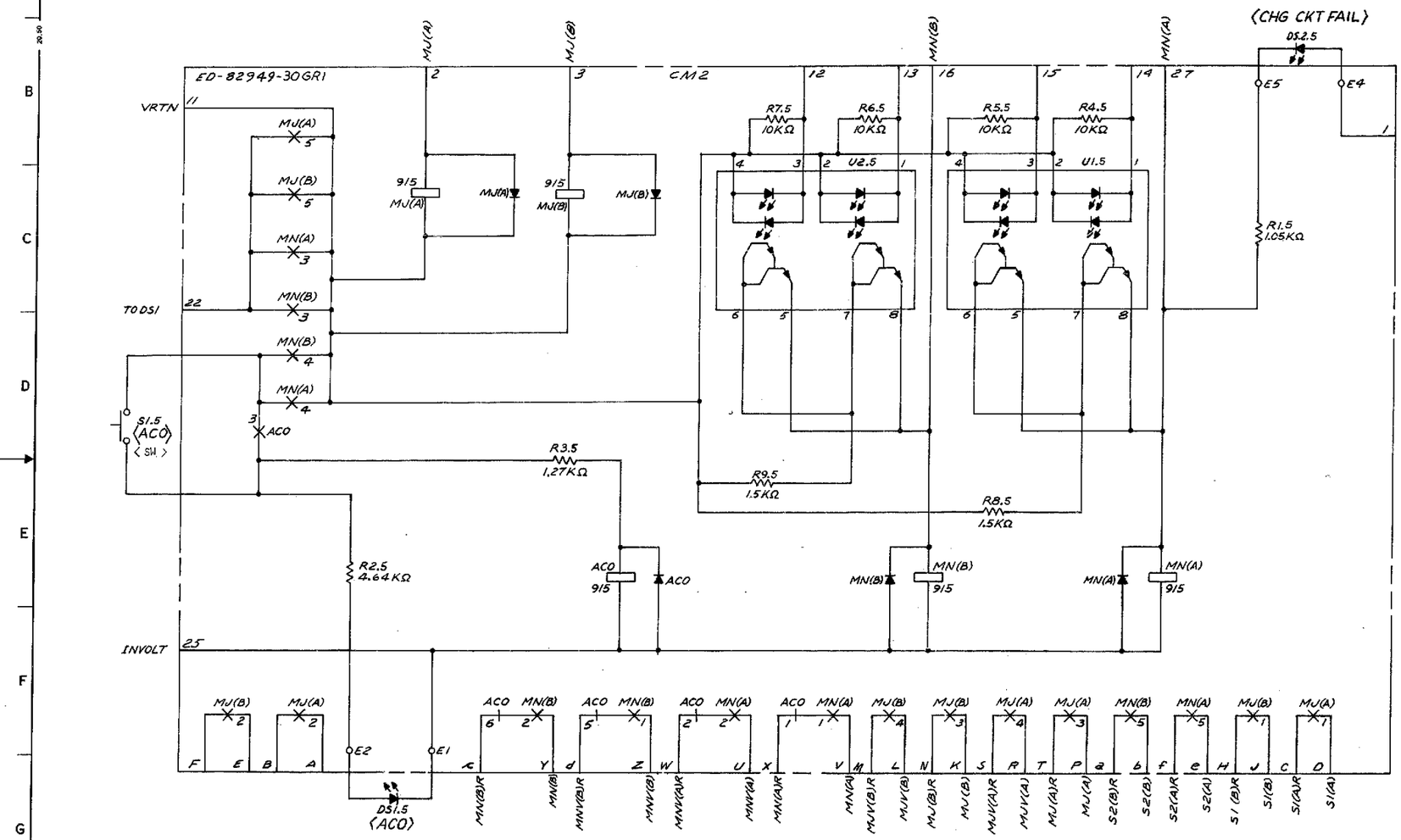
DC POWER DISTRIBUTING FRAME J86334D	DWG SIZE 6S	ISSUE 3B
AT&T	SD-82619-01	SHEET B#6

FS5
ALARM CIRCUIT



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DC POWER
DISTRIBUTING FRAME
J86334D

DWG SIZE	ISSUE
6S	2B

AT&T	SD-82619-01	SHEET
		B#7

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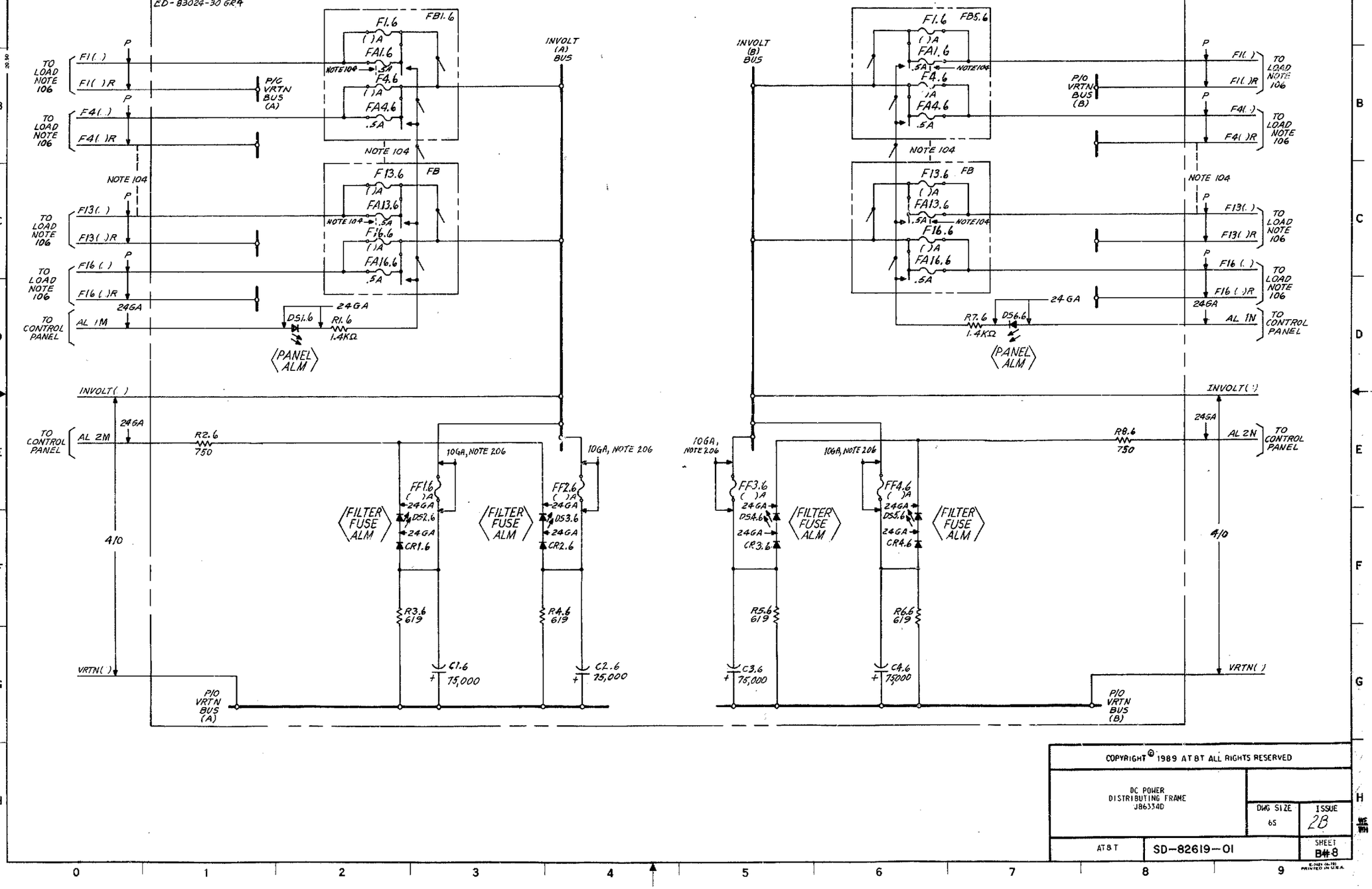
Ⓨ FS6

74 TYPE FILTER FUSE PANEL

(NOTES 102, 104, 106, 107, 108, 109, 206, 302, 304, 305 & 306)

ED-83024-30 GR4



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DC POWER DISTRIBUTING FRAME J86334D

DWG SIZE 65 | ISSUE 2B

AT&T | SD-82619-01 | SHEET B#8

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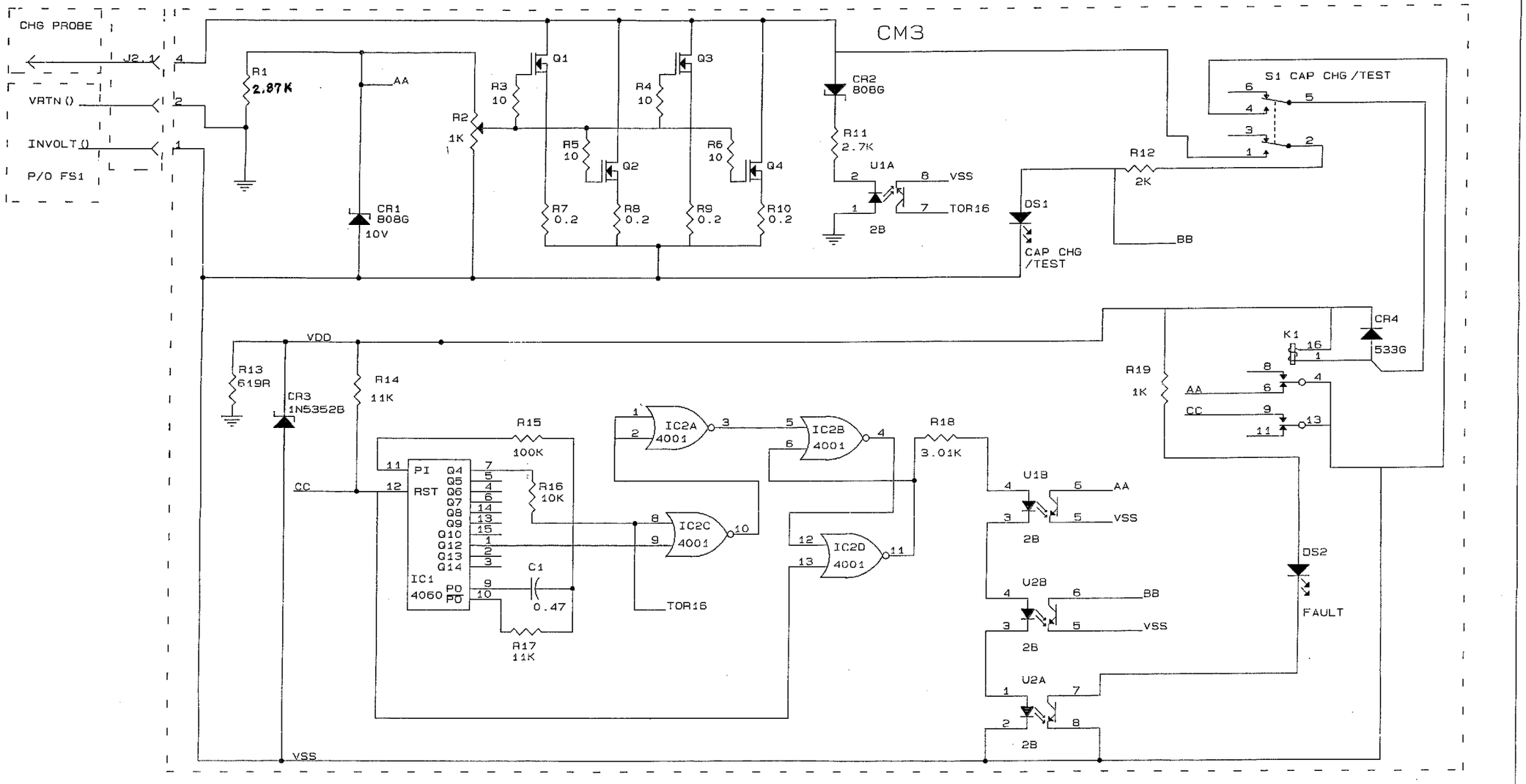
FS7
15 AMP CHARGE CIRCUIT



Title	DC POWER DISTRIBUTING FRAME	
Size B	Document Number SD-62619-01	ISS 3B
Date: June 1, 1990	Sheet B9	

APP. FIG. 1

CONTROL PANEL

CONNECTOR

	DESIG	LOC	CODE
	J1.1	3B1, 3E1	2VH28/1HNG5 (VIKING)
(W)	J2.1	3E7	~~261-19015-2~~ 225A-01522-230 (AMPHENOL)
	P4.1		127C
(V)	J2.1	3	530521-3

DIODE (LIGHT EMITTING)

	DESIG	LOC	CODE
(W)	CR1.1	3F2	~~485A~~ 828A
(W)	CR2.1	3F2	~~485A~~ 828A
(V)	CR1.1	3	~~MUR2510~~ IN1184R
(V)	CR2.1	3	~~MUR2510~~ IN1184R
(V)	CR3.1	3	533G

FUSE

	DESIG	LOC	CODE	FUSE HOLDER
(W)	FF1.1	3G2	70C, 3A	18A
	FF2.1	3G2	70C, 3A	18A
~~(W)~~	FF3.1	3F2	70C, 3A	18A
(V)	FF1.1	3	74F, 20A	20A
~~(V)~~	~~FF3.1~~	~~3~~	~~70G, .5A~~	~~18A~~

~~LAMP~~ DIODE, LIGHTEMITTING

	DESIG	LOC	CODE
(S)	DS1.1	3F0	549D
(S)	DS2.1	3F0	549D

CIRCUIT MODULE

	DESIG	LOC	CODE
(T)	CM10.1	3F0	300A

RESISTOR

DESIG	LOC	CODE
R1.1	3G3	KS-20289, L6C, 4.22KΩ
R2.1	3F1	KS-20289, L6C, 3.65KΩ
R3.1	3	KS-14603, L2AD, 1.00KΩ

TERMINAL

DESIG	LOC	CODE
TS1.1	3A1	899-4-KT-47-KT-48-601-RJ4 TERMINAL BLOCK (KULKA)
TS2.1	3A3	
TS3.1	3A5	
TS4.1	3A7	

APP. FIG. 2

74 TYPE FILTER FUSE PANEL

CAPACITOR

DESIG	LOC	CODE
C1.2	4G2	KS-20133, L92, 28,000
C2.2	4G3	KS-20133, L92, 28,000
C3.2	4G4	KS-20133, L92, 28,000
C4.2	4G5	KS-20133, L92, 28,000
C5.2	4G6	KS-20133, L92, 28,000
C6.2	4G7	KS-20133, L92, 28,000

DIODE

DESIG	LOC	CODE
CR1.2	4F1	533G
CR2.2	4F2	533G
CR3.2	4F3	533G
CR4.2	4F5	533G
CR5.2	4F6	533G
CR6.2	4F7	533G

DIODE (LIGHT EMITTING)

DESIG	LOC	CODE	
DS1.2	4D2	(Q) 534D	(R) WP 90184 L10
DS2.2	4F1	(Q) 534D	(R) WP 90184 L10
DS3.2	4F2	(Q) 534D	(R) WP 90184 L10
DS4.2	4F3	(Q) 534D	(R) WP 90184 L10
DS5.2	4F5	(Q) 534D	(R) WP 90184 L10
DS6.2	4F6	(Q) 534D	(R) WP 90184 L10
DS7.2	4D7	(Q) 534D	(R) WP 90184 L10
DS8.2	4F7	(Q) 534D	(R) WP 90184 L10

FUSE

	DESIG	LOC	CODE	FUSE HOLDER
	FF1.2	4E2	KS-19780, L26 30A	20A
	FF2.2	4E3	KS-19780, L26 30A	20A
	FF3.2	4E4	KS-19780, L26 30A	20A
	FF4.2	4E5	KS-19780, L26 30A	20A
	FF5.2	4E6	KS-19780, L26 30A	20A
	FF6.2	4E7	KS-19780, L26 30A	20A
[24]	FA1.2-FA24.2	4B2-4C2, 4B6, 4C6	70G, .5A	30B

FUSE BLOCK

	DESIG	LOC	CODE
[12]	FB1.2-FB12.2	4B2-4C2, 4B6-4C6	30B (SEE NOTE 106)

TABLE 1

FUSES USED IN THE 30B BLOCK		
DESIG	CODE 74 TYPE	RATED CAPACITY (AMPS)
F1.2 THRU F24.2	-	
	A	1.25
	G	2
	B	3
	C	5
	-	
	D	10
	-	
	E	15
	F	20
	-	
	-	

RESISTOR

	DESIG	LOC	CODE
	R1.1	4D2	KS-8512, L4C 1.4K
(Z)	R2.2	4E1	KS-20289, L1C 787
(X)	R2.2	4E1	KS-20289, L6C 750
	R3.2	4F1	KS-14603, L5CD 619
	R4.2	4F2	KS-14603, L5CD 619
	R5.2	4F5	KS-14603, L5CD 619
	R6.2	4F6	KS-14603, L5CD 619
	R7.2	4D7	KS-8512, L4C 1.4K
	R8.2	4F7	KS-14603, L5CD 619
(Z)	R9.2	4E8	KS-20289, L1C 787
(X)	R9.2	4E8	KS-20289, L6C 750
	R10.2	4F3	KS-14603, L5CD 619

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DWG SIZE 8S | ISSUE 6B

AT&T | SD-82619-01 | SHEET C#1

APP. FIG. 3

FUSE PANEL

CAPACITOR

DESIG	LOC	CODE
C1.3	5F1	KS-20133,L92,28,000
C2.3	5F2	KS-20133,L92,28,000
C3.3	5F2	KS-20133,L92,28,000
C4.3	5F3	KS-20133,L92,28,000
C5.3	5F3	KS-20133,L92,28,000
C6.3	5F4	KS-20133,L92,28,000

DIODE

DESIG	LOC	CODE
CR1.3	5E1	533G
CR2.3	5E1	533G
CR3.3	5E2	533G
CR4.3	5E3	533G
CR5.3	5E3	533G
CR6.3	5E4	533G

DIODE (LIGHT EMITTING)

DESIG	LOC	CODE
DS1.3	5E1	(S) 534D (R) WE9018H..L40
DS2.3	5F1	(S) 534D (R) WE9018H..L40
DS3.3	5D4	(S) 534D (R) WE9018H..L40
DS4.3	5F1	(S) 534D (R) WE9018H..L40
DS5.3	5F2	(S) 534D (R) WE9018H..L40
DS6.3	5F3	(S) 534D (R) WE9018H..L40
DS7.3	5F3	(S) 534D (R) WE9018H..L40
DS8.3	5F4	(S) 534D (R) WE9018H..L40

FUSES

DESIG	LOC	CODE	FUSE HOLDER
[8] F1.3-F8.3	5B1-5D1, 5B3-5D3	A13X50,GOULD SHAWMUT, IR 13X50, RFA 50	KS-16364,L6
[8] FA1.3-FA8.3	5B1-5D1, 5B3-5D3	70G..5A	18A
[6] FF1.3-FF6.3	5E1-5E4	BUSS AFJ30	

RESISTOR

DESIG	LOC	CODE
R1.3	5D1	KS-8512,L4C,1.4K
R2.3	5D3	KS-8512,L4C,1.4K
R3.3	5E1	KS-20289,L1A,787
R4.3	5E4	KS-20289,L1A,787
R5.3	5F1	KS-14603,L5CD,619
R6.3	5F1	KS-14603,L5CD,619
R7.3	5F2	KS-14603,L5CD,619
R8.3	5F3	KS-14603,L5CD,619
R9.3	5F3	KS-14603,L5CD,619
R10.3	5F4	KS-14603,L5CD,619

APP. FIG. 4 W

CHARGE CIRCUIT

DIODE (LIGHT EMITTING)

DESIG	LOC	CODE
DS1.4	6A7	534D
DS2.4	6C1	534F

SWITCH

DESIG	LOC	CODE
S1.4	6A1,6C7	MPA 206R (ALCO)

CHARGE PROBE

DESIG	LOC	CODE
CHG PROBE	6B0	ED-82923-30GR2

E/W

SWITCH

DESIG	LOC	CODE
S2.4	6B0	MPA 106F(ALCO SWITCH)

CIRCUIT MODULE

DESIG	LOC	CODE
CM1	6A4	ED-82950

E/W

CAPACITOR

DESIG	LOC	CODE
C1.4	6B2	KS-20496,L1,500
C2.4	6D4	KS-20496,L41,150
C3.4	6D6	535JN,.706
C4.4	6D6	KS-21860,L7,330

CIRCUIT MODULE (CONT)

E/W (CONT)

DIODE

DESIG	LOC	CODE
CR1.4	6A1	8048
CR2.4	6A2	813B
CR3.4	6A2	808AD
CR4.4	6B5	808A
CR6.4	6D4	533G
CR7.4	6D5	459BA
CR8.4	6D5	459J
CR9.4	6D6	808AB

INTEGRATED CIRCUIT

DESIG	LOC	CODE
IC1.4	6D5	KS-21629,L11 (CD4060)

POTENTIOMETER

DESIG	LOC	CODE
(Y) R23.4	6A4	KS-20231,L4, 1K

RESISTOR

DESIG	LOC	CODE
R1.4	6A2	KS-20289,L6C,42.2
R2.4	6B2	KS-20289,L6C,1K
R3.4	6B3	KS-8512,L10C,316
R4.4	6B3	KS-14603,L4CD,0.301
R5.4	6A3	KS-20289,L6C,1K
R6.4	6B4	KS-14603,L6CD,1.5
R7.4	6A4	KS-20289,L6C,2.15K
R8.4	6A4	KS-20289,L6C,2.15K
R9.4	6D2	KS-8512,L24C,150
R10.4	6D2	KS-20616,L1A,1K
R11.4	6C2	KS-20616,L1A,30.1
R12.4	6C3	KS-14603,L1CD,1.47K
R13.4	6C3	KS-20289,L6C,10K
R14.4	6C2	KS-20289,L6C,5.11K
R15.4	6D4	KS-20616,L1A,10K
R16.4	6D4	KS-20616,L1A,10K
R17.4	6D4	KS-20289,L2C,1K
R18.4	6D5	KS-20616,L1A,20.5K
R19.4	6D5	KS-20616,L1A,51.1K
R20.4	6C6	KS-20616,L1A,100K
R21.4	6D6	KS-20616,L1A,10K
R22.4	6D6	KS-20289,L6C,5.11K

TRANSISTOR

DESIG	LOC	CODE
Q1.4	6B2	~~147A~~ KS-21945,L5
Q2.4	6B3	~~130D~~ KS-21944,L4
Q3.4	6A4	IR F130
Q4.4	6D2	~~130D~~ KS-21944,L4
Q5.4	6C2	~~147A~~ KS-21945,L5
Q6.4	6C3	66L
Q7.4	6D3	66L
Q8.4	6C3	66L

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DWG SIZE: SS

ISSUE: 6 B

SHEET: C#2

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WE WH

APP. FIG. 5

ALARM CIRCUIT

DIODE

DESIG	LOC	CODE
DS1.5	7G2	534F
DS2.5	7A7	534D

SWITCH

DESIG	LOC	CODE
S1.5	7D0	8168HA(C&K SW)

CIRCUIT MODULE

DESIG	LOC	CODE
CM2	7A4	ED-82949

E/W

RELAY

DESIG	ACO		MJ(A)		MJ(B)		MN(A)		MN(B)	
CODE	MB3A		MB4A		MB4A		MB4A		MB4A	
OPTION										
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
6	B	7F2	M		M		M		M	
5	EBM	7F3	M		M		M	7F6	M	7F6
4	M		M	7F5	M	7F4	M		M	
3	M		M	7F6	M	7F5	M		M	
2	EBM	7F3	A	7F1	M	7F1	M	7F4	M	7F2
1	EBM	7F4	M	7F7	M	7F7	M	7F4	M	7F3
COIL		7E3		7C2		7C2		7E5		7E5

DIODE

DESIG	LOC	CODE
ACO	7E3	533G
MJ(A)	7C2	533G
MJ(B)	7C3	533G
MN(A)	7E6	533G
MN(B)	7E4	533G

INTEGRATED CIRCUIT

DESIG	LOC	CODE
U1.5	7C4	2E
U2.5	7C5	2E

RESISTOR

DESIG	LOC	CODE
R1.5	7C7	KS-20289,L6C,1.05K
R2.5	7E1	KS-20289,L6C,4.64K

CIRCUIT MODULE (CONT)

E/W (CONT)

RESISTOR (CONT)

DESIG	LOC	CODE
R3.5	7E3	KS-20289,L6C,1.27K
R4.5	7B6	KS-20616,L1A,10K
R5.5	7B5	KS-20616,L1A,10K
R6.5	7B4	KS-20616,L1A,10K
R7.5	7E5	KS-20616,L1A,10K
R8.5	7E5	KS-20289,L6C,1.5K
R9.5	7E4	KS-20289,L6C,1.5K

Ⓨ APP. FIG. 6

74 TYPE FILTER FUSE PANEL

CAPACITOR

DESIG	LOC	CODE
C1.6	8G2	KS-20133,L125 75K
C2.6	8G3	KS-20133,L125 75K
C3.6	8G4	KS-20133,L125 75K
C4.6	8G5	KS-20133,L125 75K

DIODE

DESIG	LOC	CODE
CR1.6	8F1	533G
CR2.6	8F2	533G
CR3.6	8F3	533G
CR4.6	8F5	533G
CR5.6	8F6	533G
CR6.6	8F7	533G

DIODE (LIGHT EMITTING)

DESIG	LOC	CODE
DS1.6	8D2	Ⓖ 534D Ⓡ WP90184 L10
DS2.6	8F1	Ⓖ 534D Ⓡ WP90184 L10
DS3.6	8F2	Ⓖ 534D Ⓡ WP90184 L10
DS4.6	8F3	Ⓖ 534D Ⓡ WP90184 L10
DS5.6	8F5	Ⓖ 534D Ⓡ WP90184 L10
DS6.6	8F6	Ⓖ 534D Ⓡ WP90184 L10
DS7.6	8D7	Ⓖ 534D Ⓡ WP90184 L10
DS8.6	8F7	Ⓖ 534D Ⓡ WP90184 L10

FUSE

DESIG	LOC	CODE	FUSE HOLDER
FF1.6	8E2	KS-19780,L26 30A	20A
FF2.6	8E3	KS-19780,L26 30A	20A
FF3.6	8E4	KS-19780,L26 30A	20A
FF4.6	8E5	KS-19780,L26 30A	20A
[16] FA1.6-FA16.6	8B2-4C2, 8B6,4C6	70G,.5A	30B

FUSE BLOCK

DESIG	LOC	CODE
[8] FB1.6 - FB8.6	9B2-8C2, 8B4-8C6	30B (SEE NOTE 106)

TABLE 1

FUSED USED IN THE 30B BLOCK

DESIG	CODE 74 TYPE	RATED CAPACITY (AMPS)
F1.6 THRU F8.6	-	
	A	1.25
	G	2
	B	3
	C	5
	-	
	D	10
	-	
	E	15
	F	20
	-	
	-	

RESISTOR

DESIG	LOC	CODE	
R1.6	8D2	KS-8512,L4C	1.4K
R2.6	8E1	KS-20289,L6C	750
R3.6	8F1	KS-14603,L5CD	619
R4.6	8F2	KS-14603,L5CD	619
R5.6	8F5	KS-14603,L5CD	619
R6.6	8F6	KS-14603,L5CD	619
R7.6	8D7	KS-8512,L4C	1.4K
R8.6	8F7	KS-20289,L6C	750

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APP. FIG. 7

15A. CHARGE CIRCUIT

Charge Probe

DESIG	LOC	CODE
CHG PROBE	3	ED82393-30gr3

CIRCUIT MODULE

CM3	3	ED92950-30GR2

E/W

CAPACITOR

DESIG	LOC	CODE
C1	9F4	WP90504L11, 0.47

DIODE

CR1	9C3	808G
CR2	9B5	808G
CR3	9E3	IN5352B
CR4	9D8	533C

LED

DS1	9C7	HLMP-M201
DS2	9F8	HLMP-M301

INTEGRATED CIRCUIT

IC1	9F3	4060
IC2	9F5	4001
U1, U2	9C6	2B

POTENTIOMETER

R2	9B3	KS19055L11. 1000

TRANSISTOR

Q1, Q2, Q3, Q4	9B5	MTH35N15

RELAY

K1	9D8	DS2E-S-DC12V

RESISTOR

R1	9B2	KS20289L6C, 2.87K
R3, R4, R5, R6	9B4	WP90033L1, 10
R7, R8, R9, R10	9C4	KS14603L4CD, 0.2
R11	9B5	WP90017L1, 2.7K
R12	9C7	KS20289L6C, 2K
R13	9D2	KS14603L2AD, 619
R14, R17	9E4	WP90033L1 11K
R15	9E6	WP90033L1 100K
R16	9E4	WP90033L1 10K
R18	9E6	WP90033L1 3.01K
R19	9D7	WP90033L1 1K

SWITCH

S1	9B8	~~U821SH9AGE~~ C&K

Size	Document Number	ISS
B	SD-82519-01	3B
Date:	May 31, 1990 Sheet	C4

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
INVOLT(A)		-48V	PANEL
INVOLT(B)		-48V	PANEL

BATTERY SYMBOL	VOLTAGE RANGE
INVOLT	-42.75 TO -53.5V

102. THE 74 TYPE FILTER FUSE PANEL COMES EQUIPPED WITH 48 FUSE AND INDICATOR TYPE (70 TYPE) FUSE POSITIONS (24 POSITIONS PER BUS).

103. THE HIGH CURRENT FUSE PANEL COMES EQUIPPED WITH 8 FUSE AND INDICATOR TYPE (70 TYPE) FUSE POSITIONS (4 POSITIONS PER BUS).

104. THE MAXIMUM NUMBER OF PANELS THAT A PDF CAN CONSIST OF IS 4 FUSE PANELS [ANY COMBINATION OF FUSE PANELS (74 AND HIGH CURRENT).]

105. ALL RETURN FEEDERS SHALL BE GROUNDED IN ACCORDANCE WITH BSP 802-001-195 OR SPECIFIC SYSTEM GROUNDING CIRCUIT.

106. THE MAXIMUM INPUT CURRENT FOR THE PDF SHALL BE 275 AMPERES PER BUS PER 74 FUSE PANEL AND 200 AMPERES PER BUS PER HIGH CURRENT FUSE PANEL.

107. FUSES SHALL BE RATED AT 125% OF MAXIMUM LOAD CURRENT.

108. THE 30B FUSE BLOCK CAN DISSIPATE A MAXIMUM OF 3.78 WATTS. THIS FIGURE REFERS TO WATTS DISSIPATED AS HEAT AT THE FUSE BLOCK AND NOT AT THE LOAD.

TABLE II
RESISTANCE OF 74 SERIES FUSES

FUSE CODE	RATING (AMPS)	RESISTANCE (Ω)
74A	1 1/4	0.089
74G	2	0.073
74B	3	0.038
74C	5	0.022
74D	10	0.013
74E	15	0.009
74F	20	0.006

109. PANEL DESIGNATIONS (A) THROUGH (F) ARE USED FOR ONLY REFERENCE ON THIS SCHEMATIC DRAWING.

EQUIPMENT NOTES:

201. ALL WIRING TO CM 2 SHALL BE ~~KS-19195,LT~~,KS-22247,~~LT~~,L4,24GA

202. ALL WIRING TO CM 1 SHALL BE ~~KS-19195,LT~~,KS-22247,~~LT~~,L4,20GA

203. ALL WIRING NOT SPECIFIED SHALL BE ~~KS-19195,LT~~,KS-22247,~~LT~~,L4,20GA

204. THE INPUT FEEDER INTO THE PDF SHALL BE AS FOLLOWS:
A. 4/0 TO THE HIGH CURRENT FUSE PANEL.
B. 350 MCM TO THE 74 TYPE FUSE PANEL.

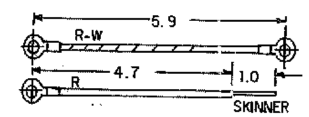
THE OUTPUT FEEDERS FROM THE PDF SHALL BE AS FOLLOWS:
A. 10 AWG FOR 74 TYPE FUSE LOADS.
B. 2AWG FOR HIGH CURRENT FUSE LOADS.

REFER TO KS-5482 (COPPER) FOR RESISTANCE VALUES AND MAXIMUM CURRENT CAPACITIES OF VARIOUS CABLES.
TO CHANGE CABLE SIZES, USE SPLICE PLATES OR PARALLEL TAP CONNECTORS OUTSIDE THE PDF.

205. 6 AWG STRANDED AND 10 AWG SOLID WIRE SHALL BE KS-5482 (COPPER)

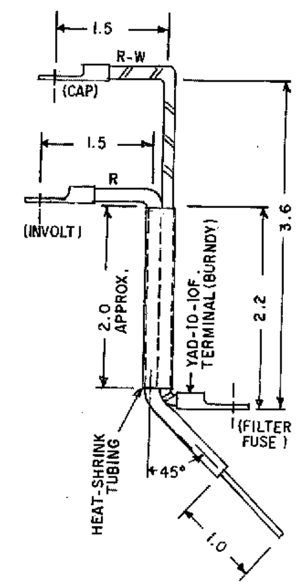
206. THE CRITICAL WIRING SHALL BE AS INDICATED HEREIN. IT IS USED TO CONNECT THE RING TERMINAL FROM THE CAPACITOR TO THE RING TERMINAL OF THE FILTER FUSE, AND THE RING TERMINAL FROM THE INVOLT BUS TO THE SOLDERED SQUARE POST OF THE FILTER FUSE. THE WIRING IS CRITICAL AND NECESSARY TO SATISFY THE TRANSIENT TEST REQUIREMENTS WHEN CLEARING FUSES.

THE UNFORMED BUT ASSEMBLED WIRES SHALL BE OF THE FOLLOWING LENGTHS:



THE WIRE AT THE FILTER FUSE TERMINAL, SHALL BE FORMED AS CLOSE AS POSSIBLE TO THE TERMINAL, AS SHOWN.

THE WIRES SHALL BE SECURED TOGETHER ALONG THE COMMON TWO INCH LENGTH BY USING 3/8 INCH DIAMETER VOLTREX, OR EQUIVALENT, TWO INCHES LONG HEAT SHRINKABLE TUBING, LOCATED AS SHOWN.



~~207. INDICATED 12GA WIRING ON FSI SHALL BE KS22247 L4, 12 GA.~~

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INFORMATION NOTES:

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

302.

FEATURE OR OPTION		PROVIDE FS	APP FIG	AF° OR WRG	QUANTITY
FUSE PANEL	74 TYPE	2	2		AS REQUIRED NOTES 103 & 104
		6	6		
	HIGH CURRENT	3	3		
CONTROL PANEL	CHARGE CIRCUIT	4	4		ONE PER PDF
	ALARM CIRCUIT	5	5		

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 AVAIL	LA	DA
2B (SEE NOTE 307)	Z,X	Z		X		Z
	Y	NONE		Y		
5B	T	S		T		S
6B	R	Q		R		Q

INFORMATION NOTES: (CONT)

304. WHEN A FILTER FUSE FF ( ) IS OPEN OR REMOVED, THE FILTER CAPACITOR MOUNTED ON THE 74 TYPE FUSE PANEL, AND HIGH CURRENT FUSE PANEL WILL DISCHARGE TO 4V DC.

IF IN ADDITION TO THE REMOVAL OF A FILTER FUSE (S) THE CONTROL PANEL FUSE (FF1 AND FF2) ARE ALSO REMOVED* THE CAPACITOR VOLTAGE WILL BLEED DOWN TO DC 0 VOLTS.

* <u>WARNING:</u> <u>REMOVAL OF THE CONTROL PANEL FF1 AND FF2 WILL DISABLE THE MINOR ALARM, ACO CIRCUIT, FRAME ALARM, AND CHARGE CIRCUIT.</u>

305. INSTRUCTIONS FOR USING THE CHARGE PROBE ARE AS FOLLOWS:

1. TO CHARGE THE LOAD CAPACITANCE ON ANY LOAD FUSE.
   a. INSERT THE CHARGE PROBE INTO THE INDICATING FUSE HOLDER
   b. PRESS THE "CAP CHG" SWITCH (S2) AND WAIT UNTIL THE "CAP CHG" LED EXTINGUISHES*.
   c. WHEN THE "CAP CHG" LED EXTINGUISHES AND THE "LOAD FAULT" LED IS ALSO EXTINGUISHED.
      1. INSERT THE LOAD FUSE.
      2. RELEASE THE "CAP CHG" SWITCH.
      3. REMOVE THE CHARGE PROBE.
      4. INSERT THE INDICATING FUSE.
2. TO CHARGE THE PANEL FILTER CAPACITORS -
   a. INSERT THE CHARGE PROBE INTO THE FUSE HOLDER.
   b. PRESS THE "CAP CHG" SWITCH (S2) AND WAIT UNTIL THE "CAP CHG" LED EXTINGUISHES.
   c. WHEN THE "CAP CHG" LED EXTINGUISHES AND THE "LOAD FAULT" LED IS ALSO NOT LIGHTED -
      1 RELEASE S2.
      2 REMOVE THE CHARGE PROBE.
      3 INSERT THE LOAD FUSE WITHIN 12 SECONDS.

* <u>WARNING:</u> <u>IF THE "CAP CHG" LED EXTINGUISHES, BUT, THE "LOAD FAULT" LED LIGHTS A LOAD FAULT (SHORT CIRCUIT, OVERLOAD, OR ANY CONDITION THAT KEEPS THE LOAD CAPACITORS FROM BEING CHANGED) CONDITION EXISTS.</u>

306.

ALARM FUNCTIONS -

REASON FOR ALARM	ALARM INDICATORS	ALARM CUT OFF	ALARM SIGNALS TRANSMITTED
LOAD FUSE OPERATED [F( )]	INDICATING FUSE OPERATES PANEL ALM LED LIGHTS	REMOVE INDICATING FUSE	MJ ( ) MJV ( ) S1 ( ) } CONTACT CLOSURES
FILTER FUSE HAS OPERATED OR REMOVED [FF( )]	FILTER FUSE ALM LED LIGHTS FRAME ALM LED LIGHTS	PRESS THE ACO SWITCH [THE ACO LED WILL LIGHT AND REMAIN LIT UNTIL THE PROBLEM IS CORRECTED]	MN ( ) MNV ( ) S2 ( ) } CONTACT CLOSURES
CHARGE CIRCUIT FAILED SHORT	INDICATING FUSE OPERATES CHG CKT FAIL LED LIGHTS FRAME ALM LED LIGHTS	PRESS THE ACO SWITCH [THE ACO LED WILL LIGHT AND REMAIN LIT UNTIL THE PROBLEM IS CORRECTED OR THE REMOVAL OF FF3]	MN ( ) MNV ( ) S2 ( ) } CONTACT CLOSURES
CONTROL PANEL OR CKT FAILS	INDICATING FUSE FF1 AND/OR FF2 OPERATES FRAME ALM LED LIGHTS	PRESS THE ACO SWITCH [THE ACO LED WILL LIGHT AND REMAIN LIT UNTIL THE PROBLEM IS CORRECTED OR THE REMOVAL OF FF1 OR FF2]	MN ( ) MNV ( ) S2 ( ) } CONTACT CLOSURES

307. PRIOR TO ISSUE 2B: 828A DIODES WERE 485A IN APP FIG 1; KS-19780,L26 FUSES WERE L6 IN APP FIG 2; KS-21944,L4 AND KS-21945,L5 TRANSISTORS WERE 130D AND 147A, RESPECTIVELY, IN APP FIG 4.

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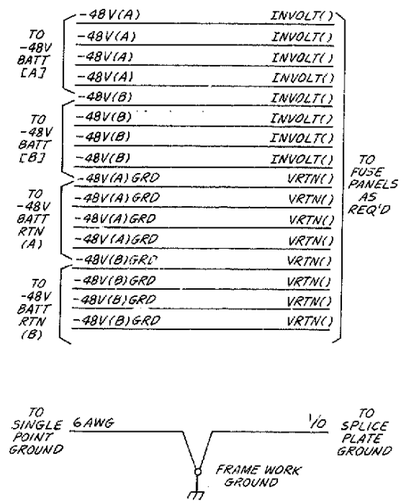
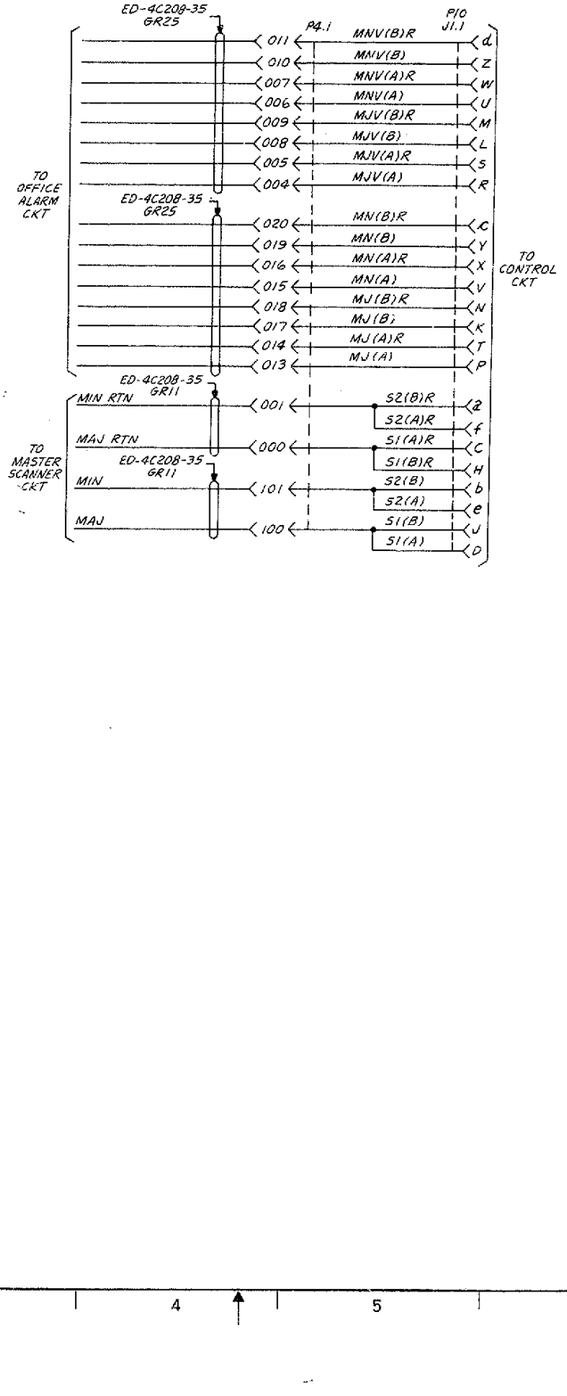


CAD 2



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