SHEET INDEX

CONTENTS	SHEET NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	SHEET NO.
SHEET INDEX SUPPORTING INFORMATION	A1	1	2	3	4	5																																													A1
OPTION INDEX	A2	1	1	1	1	1																																													A2
FS 1 - SHELF PERMANENT SIGNAL ALARM FS 2 - COMMON TIMING PERMANENT SIGNAL ALARM FS 3 - SHELF RELEASE MAGNET ALARM FS 4 - COMMON RELEASE MAGNET ALARM FS 5 - SHELF FUSE ALARM FS 6 - COMMON FINDER AND CALL BLOCKED ALARM	B1	1	2	3	3	3																																													B1
FS 7 - COMMON FUSE, POWER RINGING MACHINE ALARM AND ALARM CUT-OFF CIRCUIT FS 8 - COMMON MAJOR-MINOR ALM CKT	B2	1	1	3	3	3																																													B2
FS 9 - AUDIBLE AND VISUAL ALM CKT FOR ALM PANEL FS 10 - AUDIBLE AND VISUAL ALM CKT FOR SWBD FS 11 - AISLE PILOT LAMPS (SEE NOTES 105 & 106) FS 12 - COMMON ALARM AUD SIGNAL EXT FS 13 - ROTS ALARM CIRCUIT	B3	1	1	3	3	3																																													B3
APP. FIG. 1,2,3	C1	1	1	3	3	3																																													C1
APP. FIG. 4,5,6,7,8,9,10,11,12	C2	1	1	1	1	1																																													C2
CIRCUIT NOTES INFORMATION NOTES	D1	1	2	2	4	4																																													D1
SC 1 - PERMANENT SIGNAL ALM TIPS AND RING SHORTED RING GROUNDED OR RECEIVER LEFT OFF HOOK SC 2 - RELEASE MAGNET ALM CONN CKT FUNCTIONS TO RELEASE ITS SW	E1	1	1	1	1	1																																													E1
SC 3 - ALL FDRS BUSY OR CALL BLOCK ALARM SC 5 - ROTARY OUT TRUNK SW ALARM	E2	1	2	2	2	2																																													E2
SC 4 - COMMON ALARM	E3	1	1	1	1	1																																													E3
CIRCUIT REQUIREMENTS TABLE	F1	1	1	1	1	1																																													F1
CAD 1,2,18	G1	1	1	1	4	4																																													G1
CAD 3,4,5,6,7,17	G2	1	2	3	4	4																																													G2
CAD 8,9,10,11,12,13,14,15,16	G3	1	1	3	4	4																																													G3

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWINGS:	J58831AE ED-65327-01 ED-65698-01 ED-65699-01 ED-66074-01 J53118D J53125D J53132AA J58831A J58831C J58831D J58831E J58831F J58831G J58831H J58831J J58831N J58831S J58837AE J58837AF J58837AG J58837AH J58837AJ J58837AK J58837AL J58837AM J58837AP J58837BE J58837BT J58837BU J58837BW J58837CN J59025D
MAINTENANCE BSP	542-010-501

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 AS A WHOLE.

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD	
1	1	2-20-68	EWE PJS JEA	AEK LAH RHP	HW
2B	1 APP 1B	10-14-69	EC PJS JEA	RCL RVL SEB	
3C	1 APP 2D	9-17-70	ASI CBH	RCL FLS CEM	DR
4D	1 APP 3D	10-13-71	GRL CBH	GLH GLH AFR	DR
5D	1 APPX 4D	12-13-76	HBW -	RCL RVL AFR	DR

ISSUE 5D

PARTIALLY REPLACING SD-65761-01

SD-65761-02 3J07

PBX SYSTEMS
NO. 701B OR 711B
MISCELLANEOUS ALARM CIRCUIT

(MISC ALM) (2)

MFR DISC.

SD-65761-02-A1
15 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED
DWG SIZE 6S
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OPTION INDEX

APP OR WIRING	LOCATION
6	APP FIG. 6
7	APP FIG. 7
8	APP FIG. 8
9	APP FIG. 9
10	APP FIG. 10
Z	2A7, 2B7, 2C7
Y	2A6, 2A7, 2B6, 2B7 2C6, 2C7
X	2A6, 2A7, 2B7, 2C7
W	APP FIG. 3, 2D8, 2E8
V	2E7
T	2E7
S	APP FIG. 2
R	APP FIG. 3
Q	1G4
N	1G4
M	APP FIG. 3

DRAWING ISSUE

1	KAR MP HW FHF

MISCELLANEOUS ALARM CIRCUIT

SD-65761-02-A2

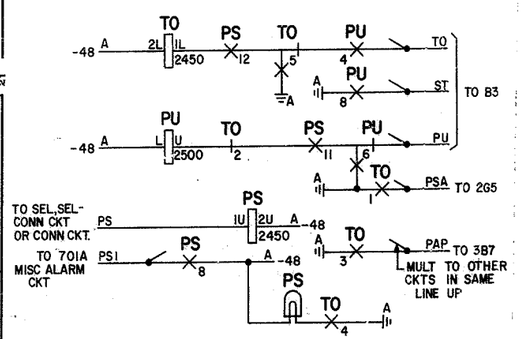
BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

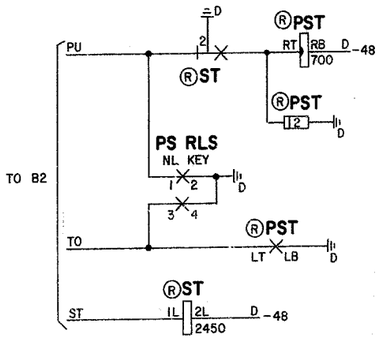
PRINTED IN U.S.A.

SD-65761-02-A2

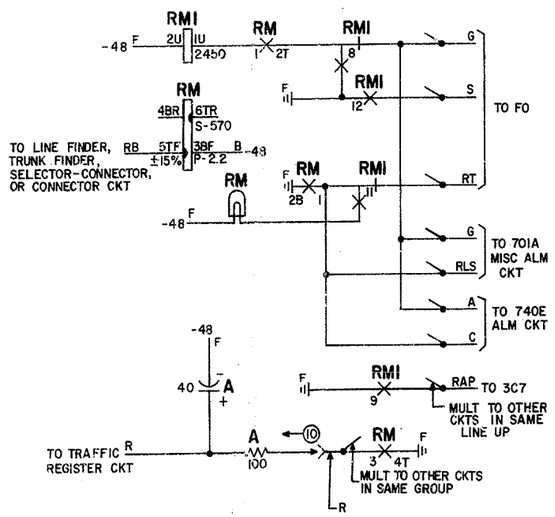
FS 1
SHELF PERMANENT SIGNAL ALARM



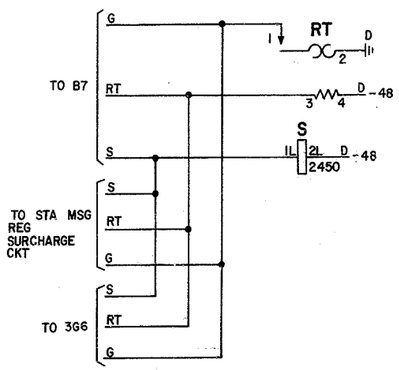
FS 2
COMMON TIMING PERMANENT SIGNAL ALARM



FS 3
SHELF RELEASE MAGNET ALARM

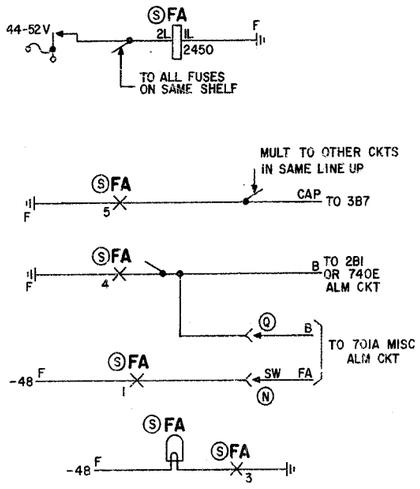


FS 4
COMMON RELEASE MAGNET ALARM

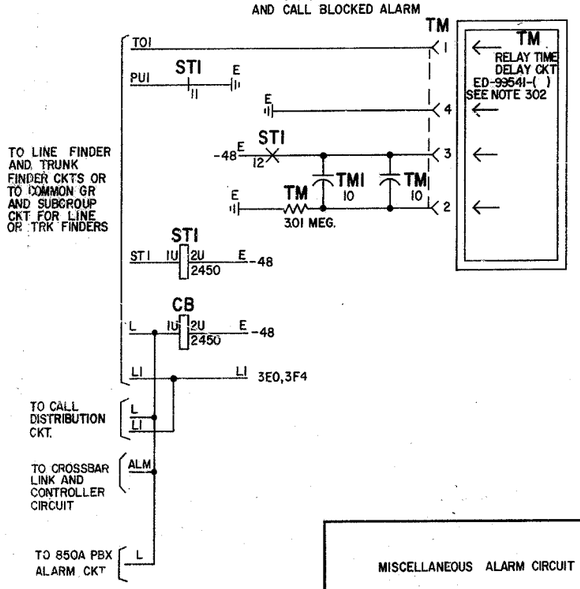


NOTES:
1. LEADS DESIGNATED BY ARROWS APPLY TO INTER-UNIT LEAD DESIGNATIONS.

FS 5
SHELF FUSE ALARM



FS 6
COMMON FINDER AND CALL BLOCKED ALARM



DRAWING ISSUE		
1	ROZ PJS RHF	HW
2B		
3D		DR

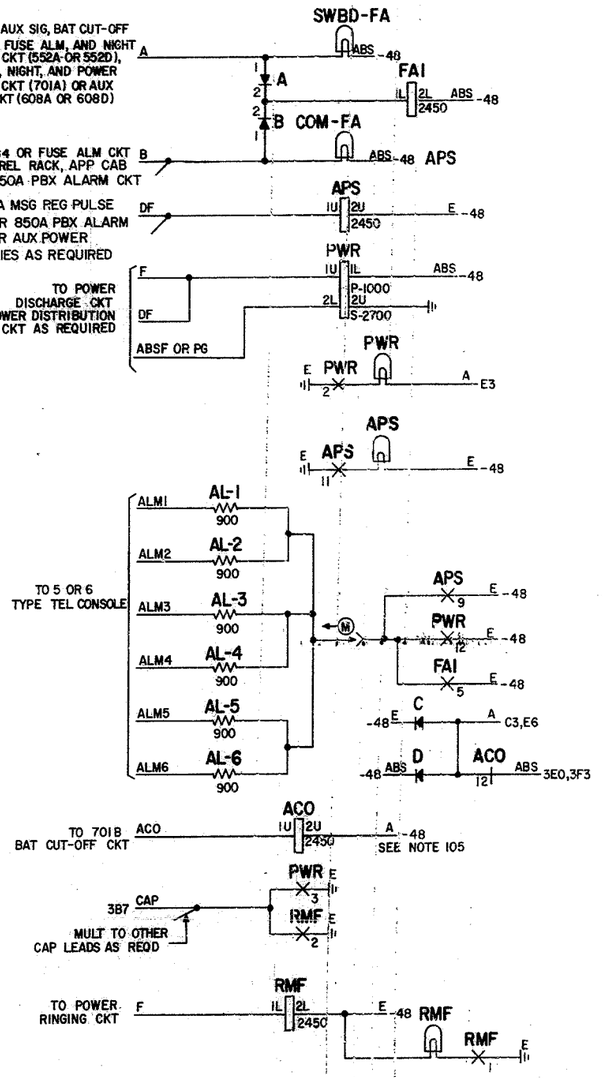
MISCELLANEOUS ALARM CIRCUIT ②	SD-65761-02-B1
BELL TELEPHONE LABORATORIES INCORPORATED	SIZE 6S

3

SD-65761-02-B1

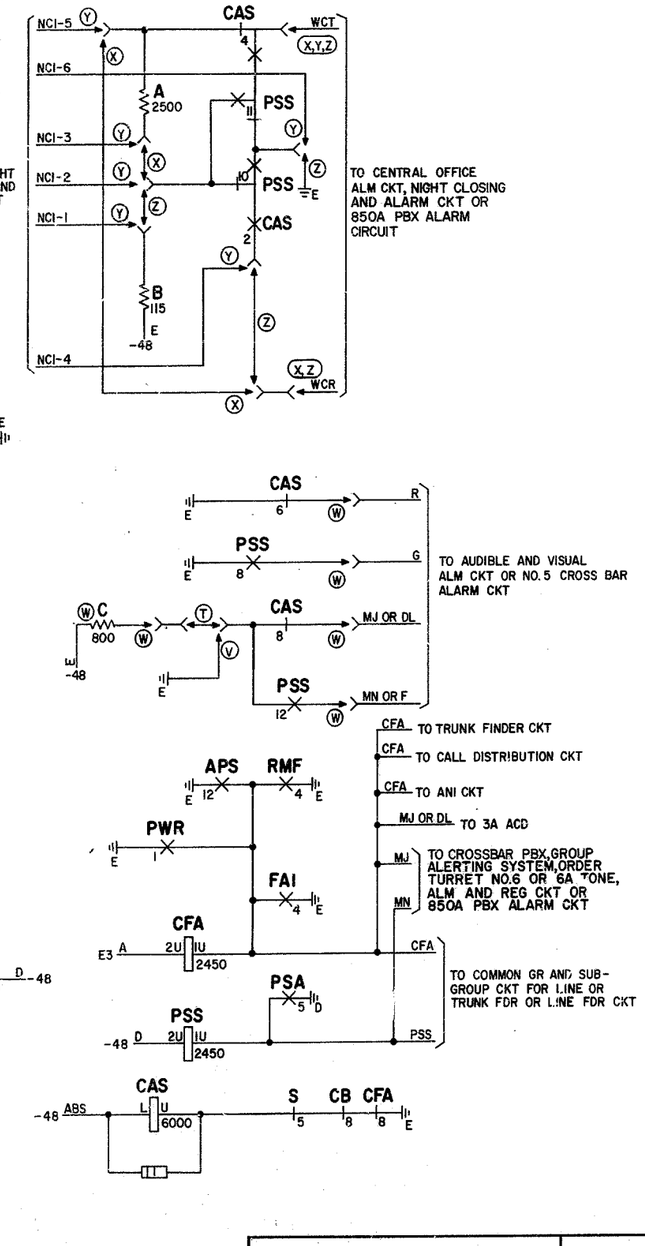
FS 7

COMMON FUSE-POWER RINGING MACHINE ALARM AND ALARM CUT-OFF CIRCUIT



FS 8

COMMON MAJOR-MINOR ALARM CIRCUIT



DRAWING ISSUE		
1	ROZ RJS RHP	HW
3D		DR

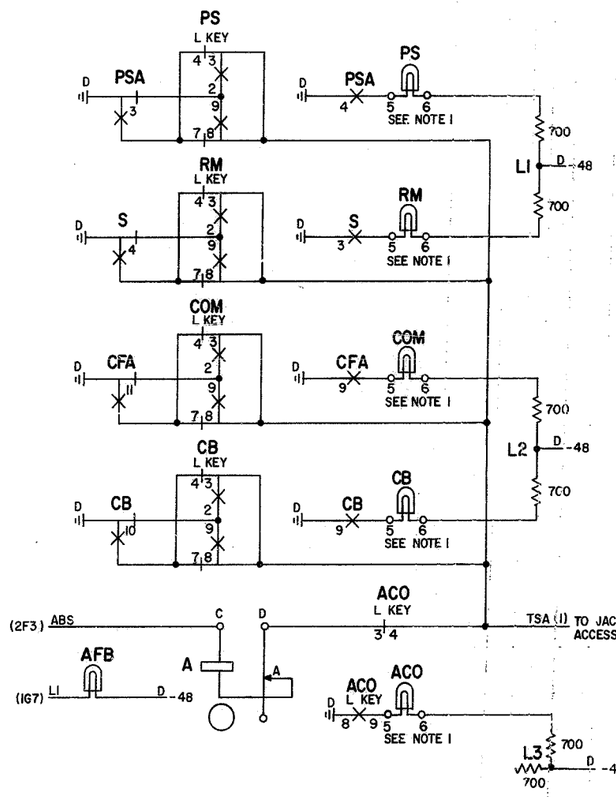
SD-65761-02-B2

MISCELLANEOUS ALARM CIRCUIT ②		SD-65761-02-B2
BELL TELEPHONE LABORATORIES INCORPORATED	DWG SIZE 6S	PRINTED IN U.S.A.

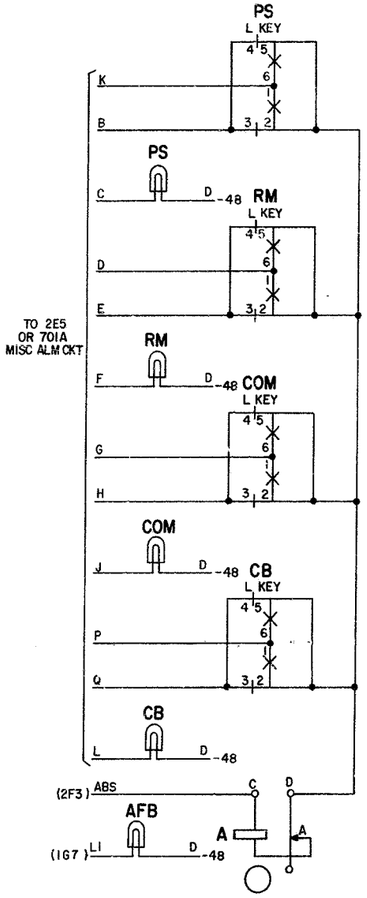
3

DRAWING ISSUE
1 ROZ PJS RHP HW DR
3D

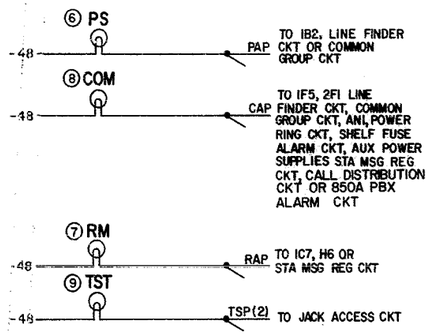
FS 9
AUDIBLE AND VISUAL ALARM CIRCUIT FOR ALARM PANEL



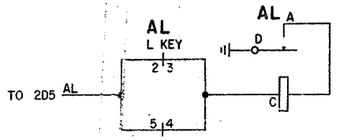
FS 10
AUDIBLE AND VISUAL ALARM CIRCUIT FOR SWITCHBOARD



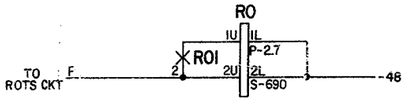
FS 11
AISLE PILOT LAMPS (SEE NOTES 105 & 106)

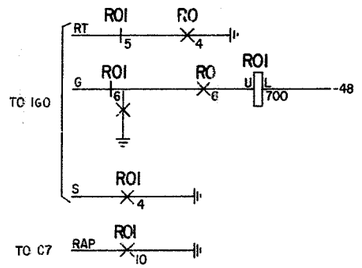


FS 12
COMMON ALM AUD SIG EXT



FS 13
ROTS ALARM CKT





NOTES:
1. DENOTES SPRINGS OF ASSOCIATED KEY.

SD-65761-02-B3

MISCELLANEOUS ALARM CIRCUIT ②

SD-65761-02-B

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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APP FIG. 1

RELAY DESIG	PU	PS		TO					
CODE	AF67	AK4							
OPTION									
	CONT ARR / LOC	CONT ARR / LOC		CONT ARR / LOC		CONT ARR / LOC		CONT ARR / LOC	
12		M	IA1						
11		EBM	IB1						
10		EBM							
9		EMB							
8	EBM IA1	EMB	IB0						
7									
6	EMB IB1								
5				EMB	IA1				
4	EBM IA1			EMB	IC1				
3				EBM	IB1				
2				EBM	IB0				
1				M	IB1				
COIL	IB0	IB1		IA0					

APP FIG. 3

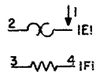
RELAY DESIG	ACO	FAI	APS	RMF			CAS	CB	S	FA			PSS	PSA		DESIG
CODE	AK24		AK24				AJ129	AK4		AK4			AK4			CODE
OPTION																OPTION
	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	
12	BM 2F3		BM 2E7					M 2F6		M 2F6			M 2E7			12
11	BM		BM 2B2					EBM 2F5		EBM 3C0			EBM 2B7			11
10							EBM 2D6	EBM 3D0		EBM 2E5			EBM 2B7			10
9	M		M 2E3					EMB 3D1		EMB 3C1			EMB			9
8	M		M				EBM 2E7	EMB 2C8		EMB 2C8			EMB 2D7			8
7																7
6							EBM 2D7									6
5		M 2E3		M					EMB 2G7		EMB			EMB 2G7		5
4		M 2F7		M 2E7			EBM 2A7		EMB 3B0		EMB			EMB 3B1		4
3									EBM 3B1		EBM			EBM 3B0		3
2		BM		BM 2G2			M 2B7		EBM 2E5		EBM			EBM 2D5		2
1		BM		BM 2G3					M 2E6		M			M 2D6		1
COIL	2F2	2B2	2B2	2G2			2G7	1G6	1F1	2F7			2G7	2G6		COIL

LAMP

DESIG	LOC	CODE
PS	IC1	MI, WHITE

RELAYS

RT
235E



RELAY

Ⓡ PST
KS-7828

BELLS

DESIG	LOC	CODE
A	3E1	7F

CAPACITORS

DESIG	LOC	CODE
TM	1F8	574A
TM1	1F7	574A

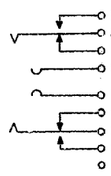
CONNECTOR

DESIG	LOC	CODE
TM	1E8	910A

DIODE

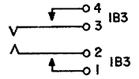
DESIG	LOC	CODE
A	2B2	446F
B	2B2	446F
C	2E3	446F
D	2F3	446F

KEYS
630A2



ACO	CB	COM	PS	RM
WHITE	RED	RED	WHITE	GREEN
3E1	3D0	3C0	3B0	3B0
3E1	3D1	3C1	3B1	3B1
3E1	3D0	3C0	3A0	3B0

KEY
PS RLS
624 B2



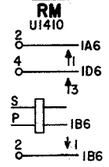
APP FIG. 2

RELAY DESIG	RMI	FA						
CODE	AK4							
OPTION		S						
	CONT ARR / LOC	CONT ARR / LOC		CONT ARR / LOC		CONT ARR / LOC		
12	M IA6							
11	EBM IB6							
10	EBM							
9	EMB IC6							
8	EMB IA6							
7								
6								
5		EMB	IF3					
4		EMB	IG3					
3		EBM	IH4					
2		EBM						
1		M	IG4					
COIL	IA5	IE4						

RELAY DESIG	STI	ST			PWR	DESIG
CODE	AK23				AF12	CODE
OPTION		R				OPTION
	CONT ARR / LOC	CONT ARR / LOC		CONT ARR / LOC	CONT ARR / LOC	
12	BM IF7				M 2E3	12
11	BM IF6				M	11
10					M	10
9						9
8					BM	8
7						7
6					BM	6
5						5
4					M	4
3					M 2F2	3
2		BM 1A3			M 2C2	2
1		BM			M 2F7	1
COIL	IG6	IC3			2C2	COIL

RELAY

RM
U1410



LAMPS

	DESIG	LOC	CODE
Ⓢ	FA	1H4	MI, RED
	RM	1B6	MI, GREEN

LAMPS

DESIG	LOC	CODE
ACO	3E1	B2
AFB	3E0	MI, WHITE
APS	2B3	MI, RED
CB	3D1	B2
COM	3C1	B2
COM-FA	2B2	MI, RED
PS	3A1	B2
PWR	2C2	MI, RED
RM	3B1	B2
RMF	2G3	MI, RED
SWBD-FA	2A2	MI, RED

NETWORK

	DESIG	LOC	CODE
	CAS	2G7	185A
Ⓡ	PST	1B4	177D

RELAY TIME DELAY CIRCUIT

DESIG	LOC	CODE
TM	1E8	ED-99541-( )

RESISTORS

	DESIG	LOC	CODE
	A	2B7	18EF
	AL(1-6)	2E2	19BA
	B	2C7	59D
Ⓜ[3] Ⓦ	C	2E6	18CN
	L1	3B2	
	L2	3D2	19RL
	L3	3E2	
	TM	1F7	144A, 3.01 MEG

DRAWING ISSUE

1	ROZ RJS RHP

HW 3D

DR

SD-65761-02-CI

3

MISCELLANEOUS ALARM CIRCUIT

(2)

SD-65761-02-CI

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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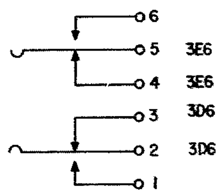
APP FIG. 4

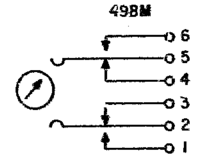
KEY
AL
552A



BUZZER DESIG	LOC	CODE
AL	3D7	7F

APP FIG. 5

KEY
49BM



CB	COM	PS	RM
3D4	3C4	3A4	3B4
3E4	3D4	3B4	3C4

BELL DESIG	LOC	CODE
A	3F4	7F

LAMP DESIG	LOC	CODE
AFB	3F4	MI, WHITE
CB	3E4	MI, RED
COM	3D4	MI, RED
PS	3B4	MI, WHITE
RM	3C4	MI, GREEN

APP FIG. 6

LAMPS DESIG	LOC	CODE
PS	3E6	MAZDA, 5 WATT, WHITE

APP FIG. 7

LAMPS DESIG	LOC	CODE
RM	3C6	MAZDA, 5 WATT, GREEN

APP FIG. 8

LAMPS DESIG	LOC	CODE
COM	3B6	MAZDA, 5 WATT, RED

APP FIG. 9

LAMPS DESIG	LOC	CODE
TST	3D6	MAZDA, 5 WATT, WHITE

APP FIG. 10

CAPACITOR DESIG	LOC	CODE
A	1C6	KS-16390, L8, 40UF

RESISTOR DESIG	LOC	CODE
A	1D6	KS-8512, L19A, 100Ω

APP FIG. 11

RELAY

DESIG	RO		ROI					
CODE	AF97		AF156					
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12								
11								
10			M	3H6				
9								
8	M		M					
7			B					
6	M	3G7	EMB	3G6				
5			B	3G6				
4	M	3G7	M	3G6				
3								
2			M	3F6				
1								
COIL		3F6		3G7				

DRAWING ISSUE 1

MISCELLANEOUS ALARM CIRCUIT

SD-65761-02-C2 ②

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65761-02-C2

CIRCUIT NOTES

101.

DESIG	AMP	POTENTIAL FUSED	ONE PER
A	1-1/3	48V SIG	APP FIG 1
ABS	1-1/3	48V SIG	APP FIG 3
B	5	48V SIG	APP FIG 2
D	1-1/3	48V SIG	APP FIG 3 & 5
E	1-1/3	48V SIG	APP FIG 3
F	1-1/3	48V SIG	2 APP FIG 2 MAX
G	1-1/3	48V SIG	APP FIG 6,7&8,MAX 12 LPS

BATTERY SYMBOL	VOLTAGE RANGE
-48	44-52

102.

FEATURE OR OPTION	PROVIDE: APP FIG	PROVIDE: APP OR WRG	PROVIDE: QUANTITY
SHELF ALARMS: PERMANENT SIGNAL (SEE NOTE 106)	1		1 PER 12SW OR LESS CAP: SEL OR SEL CONN OR CONN SHELF UNIT OR TWO PER 20SW CAP SEL SHELF UNIT
SHELF ALARMS: RELEASE MAGNET	2		1 PER 12SW OR LESS CAP: SHELF UNIT OR 1 PER 20SW CAP L- FDR TRK FDR SHELF UNIT OR TWO PER 20SW CAP SEL SHELF UNIT
SHELF ALARMS: FUSE ALARM		S	1 PER SHELF
COMMON ALARM CKT	3	R	1 PER PBX
SERVING CENTRAL OFFICE REQUIRES: REV BAT ALM WITH NIGHT CLOSING AND ALARM CKT – PROVIDED AT PBX		Y	
SERVING CENTRAL OFFICE REQUIRES: REV BAT ALM WITH NIGHT CLOSING AND ALARM CKT – NOT PROVIDED		Z	
SERVING CENTRAL OFFICE REQUIRES: MARGINAL BAT ALARM		X	
SERVING CENTRAL OFFICE REQUIRES: GROUND ACTIVATED ALARM IN SAME BLDG.		V,W	1 PER PBX
SERVING CENTRAL OFFICE REQUIRES: BATTERY ACTIVATED ALARM IN SAME BLDG.		T,W	
		R	1 PER PBX
WHEN 701B EOPD IS ADDED TO 701A: FIG. 22 OF 701A MISC. ALARM CKT. PER SD-66384-01 FOR SW FR FA IS PROVIDED		Q	
WHEN 701B EOPD IS ADDED TO 701A: FIG. 22 OF 701A MISC. ALARM CKT. PER SD-66384-01 FOR SW FR FA IS NOT PROVIDED		N	
AUDIBLE AND VISUAL ALARM FOR SWITCHBOARDS	5		AS REQD
FUSE & PWR ALM FOR 5 OR 6 TYPE CONSOLE		M	1 PER 6 CONSOLES
COMMON ALM AND SIG EXTENSION	4		AS REQD
AISLE PILOT LAMP: PERMANENT SIGNAL	6		1 PER LINE-UP AS REQD.
AISLE PILOT LAMP: RELEASE MAGNET	7		
AISLE PILOT LAMP: COMMON	8		
AISLE PILOT LAMP: AUTOMATIC CALL THRU TEST SET	9		
WHEN TRAFFIC REGISTER IS REQD WITH APP FIG. 2	10		1 PER REGISTER
ROTARY OUT TRUNK SWITCHES PROVIDED	11		1 PER AISLE OR ROTS

102. (CONTD)

FEATURE OR OPTION	PROVIDE: APP FIG	PROVIDE: APP OR WRG	PROVIDE: QUANTITY

103.

NETWORK VALUES: NETWORK NO.	NETWORK CODE	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	185A	470	.11-.15
2	177D	620	1

104.

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT: STD	A & M	MD

104. (CONTD)

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT: STD	A & M	MD

105. THE FUSE SHOWN FOR RELAY ACO OF APP FIG. 3 IS THE BATTERY CUTOFF CIRCUIT FUSE A.

106. PROVIDE THE SHELF PERMANENT SIGNAL ALARM FOR CONNECTOR SHELF UNITS WHEN THE CONNECTOR HAS THE JOINT HOLD FEATURE.

EQUIPMENT NOTES:

201 OPTION R PER APP FIG.3 SHOULD BE ORDERED SEPARATELY AND INSTALLED LOCALLY PER JOB BASIS. LEAD DESIGNATED TO, ST AND PU TO BE RUN DIRECT.

INFORMATION NOTES:

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

302. USE ED-99541 DASH NO AND GROUP ASSY WHICH PROVIDES AN INTERNAL 2UF CAPACITOR.

303. WHEN WORKING ON CIRCUITS CONTAINING DIODES, VARISTORS, OR TRANSISTORS, PROCEDURES OUTLINED IN BSP SECTION 032-173-301 ARE TO BE FOLLOWED.

304. COMPARISON BETWEEN SD-65761-01 AND SD-65761-02:

FEATURE		SD-65761-01 FIG.	SD-65761-02: FS	SD-65761-02: APP. FIG.
PERMANENT SIGNAL ALARM	SHELF	FIG. 1	FS1	APP FIG 1
PERMANENT SIGNAL ALARM	COMMON TIMING	PART OF FIG. 3	FS2	PART OF APP FIG. 3 OPTION R
RELEASE MAGNET ALARM	SHELF	FIGS 2 & B	FS3	APP FIG. 2
RELEASE MAGNET ALARM	COMMON	PART OF FIG. 3	FS4	PART OF APP FIG. 3
SHELF FUSE ALARM		FIG. 6	FS5	OPTION S
FINDER AND CALL BLOCK ALARM		PART OF FIG. 3	FS6	PART OF APP FIG. 3
COMMON FUSE, POWER, RINGING MACHINE ALARM & ALARM CUT-OFF		PART OF FIG. 3	FS7	PART OF APP FIG. 3
MAJOR-MINOR ALARM		PART OF FIG. 3	FS8	PART OF APP. FIG.3
AUDIBLE AND VISUAL ALM	AT UNIT	PART OF FIG. 3	FS9	PART OF APP FIG. 3
AUDIBLE AND VISUAL ALM	AT SWBD	FIG. 5	FS10	APP FIG. 5
AISLE PILOT LAMPS	PERMANENT SIGNAL	PART OF FIG. 4	FS11	APP FIG. 6
AISLE PILOT LAMPS	RELEASE MAG	PART OF FIG. 4	FS11	APP FIG. 7
AISLE PILOT LAMPS	COMMON	PART OF FIG.4 OR 8	FS11	APP FIG. 8
AISLE PILOT LAMPS	AUTOMATIC CALL-THRU	FIG. 11	FS11	APP FIG. 9
ALM AND SIG. EXT		FIG. 7	FS12	APP FIG. 4
ROTS ALARM		FIG. 12	FS13	APP FIG. 11
5 OR 6 TYPE CONSOLE		FIG. 10	FS7	OPTION M
TRAFFIC REGISTER		FIG. C	FS2	APP FIG. 10
ADDED TO 701A		FIG. 9	FS3	OPTION R

305. APP FIG. AND FS ON THIS CIRCUIT MAY BE CONNECTED TO FIG. ON SD-65761-01 AND VICE-VERSA, ALTHOUGH THE FS AND CAD ON EITHER DRAWING DOES NOT REFLECT THIS INTERCONNECTION. (SEE NOTE 304) (FOR EXAMPLE A RELEASE MAGNET ALARM ON A SWITCH SHELF PER FS3 AND APP FIG. 2 ON THIS CIRCUIT CAN BE CONNECTED TO THE COMMON RELEASE MAGNET ALARM ON THE ALARM PANEL WHICH IS PART OF FIG. 3 ON SD-65761-01).

DRAWING ISSUE	
1	EWE HW
2B	RHP DR
4D	DR

4

MISCELLANEOUS ALARM CIRCUIT

SD-65761-02-D1

ISSUE 2

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SC1

PERMANENT SIGNAL ALARM
TIP AND RING SHORTED
RING GROUNDED OR
RECEIVER LEFT OFF HOOK

SEL, SEL-CONN OR CONN FUNCTIONS TO GRD LEAD PS

ST

PS (SHELF)

PU (SHELF)

LEAD ST GROUNDED

ST

REMOVES GRD FROM LEAD PU

PS NL KEY

20-30 MIN

PST

PS NL KEY

LEAD TO GROUNDED

TO (SHELF)

PU (SHELF)

ST

PST COMMON TIMER RECYCLED

PS LAMP (SHELF)

LEAD PAP GROUNDED

PS LAMP (AISLE PILOT)

LEAD PSA GROUNDED

ACO NL KEY

PSA

PS LAMP (SWBD)

A BELL (SWBD)

PSS CLASS "B" ALARM TRANSMITTED

A BELL

PS LAMP

PS L KEY

A BELL

TROUBLE CLEARED

TROUBLE CLEARED

PS (SHELF)

TO (SHELF)

PSA

PS LAMP (SHELF)

PS LAMP (SWBD)

PSS CLASS "B" ALARM TRANSMITTAL STOPPED

PS LAMP

A BELL

A BELL

PS L KEY

A BELL

ALARM RELEASED

SC2

RELEASE MAGNET ALARM CONNECTING CIRCUIT FUNCTIONS TO RELEASE ITS SWITCH

RM (SHELF) SEE NOTE 1

LEAD R TO TRAFFIC REG CKT GROUNDED

LEAD RT GROUNDED

15-25 SEC IF RELEASE MAGNET REMAINS OPERATED

RT

LEAD G GROUNDED

RMI (SHELF)

LEAD RAP GROUNDED

RM LAMP (AISLE PILOT)

RM LAMP (SHELF)

GROUND REMOVED FROM LEAD RT

LEAD S GROUNDED

S

ACO L KEY

CAS CLASS "A" ALARM TRANSMITTED

RM LAMP

RM LAMP (SWBD)

A BELL (SWBD)

A BELL

RM L KEY

A BELL

TROUBLE CONDITION CLEARED

RM (SHELF)

RMI (SHELF)

S

RM LAMP (SWBD)

A BELL (SWBD)

RM LAMP

A BELL

A BELL

RM L KEY

A BELL

CAS CLASS "A" ALARM TRANSMITTAL STOPPED

ALARM RELEASED

NOTES:
1. RELAY RM OPERATES IN SERIES WITH THE RELEASE MAGNET (S) OF THE SWITCH (ES) ON THE ASSOCIATED SHELF

DRAWING ISSUE

1	CED PJS RHF

MISCELLANEOUS ALARM CKT	SD-65761-02-EI
BELL TELEPHONE LABORATORIES INCORPORATED	DWG SIZE 6S

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SD-65761-02-EI

SC 3

ALL FINDERS BUSY
OR
CALL BLOCK ALARM

FINDER CKT OR COMMON GRP & SUBGRP CKT FUNCTION – LEAD STI GROUNDED

STI

15–30 SEC

RELAY TIME DELAY CKT FUNCTIONS GROUNDING LEAD TOI

CONNECTING CKT FUNCTIONS

GRD REMOVED FROM LEAD TOI

STI

COMMON TIMER RECYCLED

CALL BLOCK

LEAD CAP GROUNDED

COM LAMP (AISLE PILOT)

LEAD L OR ALM GROUNDED

CB

CB LAMP (SWBD)

A BELL (SWBD)

CB LAMP

A BELL

ACO L KEY

CAS

CLASS A ALARM TRANSMITTED

CB L KEY

A BELL

TROUBLE CONDITION CLEARED

CB

CB LAMP (SWBD)

A BELL (SWBD)

CB LAMP

CAS

CLASS A ALARM TRANSMITTAL STOPPED

A BELL

A BELL

CB L KEY

A BELL

ALARM RELEASED

ALL FINDERS BUSY

LEAD PAP GROUNDED

PS LAMP (AISLE PILOT)

LEADS LI & PSS GROUNDED

PSS

CLASS B ALARM TRANSMITTED

AFB LAMP

FINDER BECOMES AVAILABLE

AFB LAMP

PS LAMP (AISLE PILOT)

PSS

CLASS B ALARM TRANSMITTAL STOPPED

SC 5

ROTARY CUT TRUNK SWITCH ALARM

ROTS FUNCTION LEAD P GROUNDED

RO

LEAD RT GROUNDED

15–25 SEC

RT

LEAD G GROUNDED

ROI

RM LAMP (AISLE PILOT)

LEAD S GROUNDED

S

GRD REMOVED FROM LEAD RT

RT

CAS

CLASS A ALARM TRANSMITTED

A BELL

RM LAMP

RM LAMP (SWBD)

A BELL (SWBD)

TROUBLE CLEARED

RO

ROI

RM LAMP (AISLE PILOT)

S

CAS

CLASS A ALARM RETIRED

A BELL

RM LAMP

RM LAMP (SWBD)

A BELL (SWBD)

DRAWING ISSUE

1	EWE RVS RHF
2B	

HW

MISCELLANEOUS ALARM CIRCUIT

2

SD-65761-02-E2

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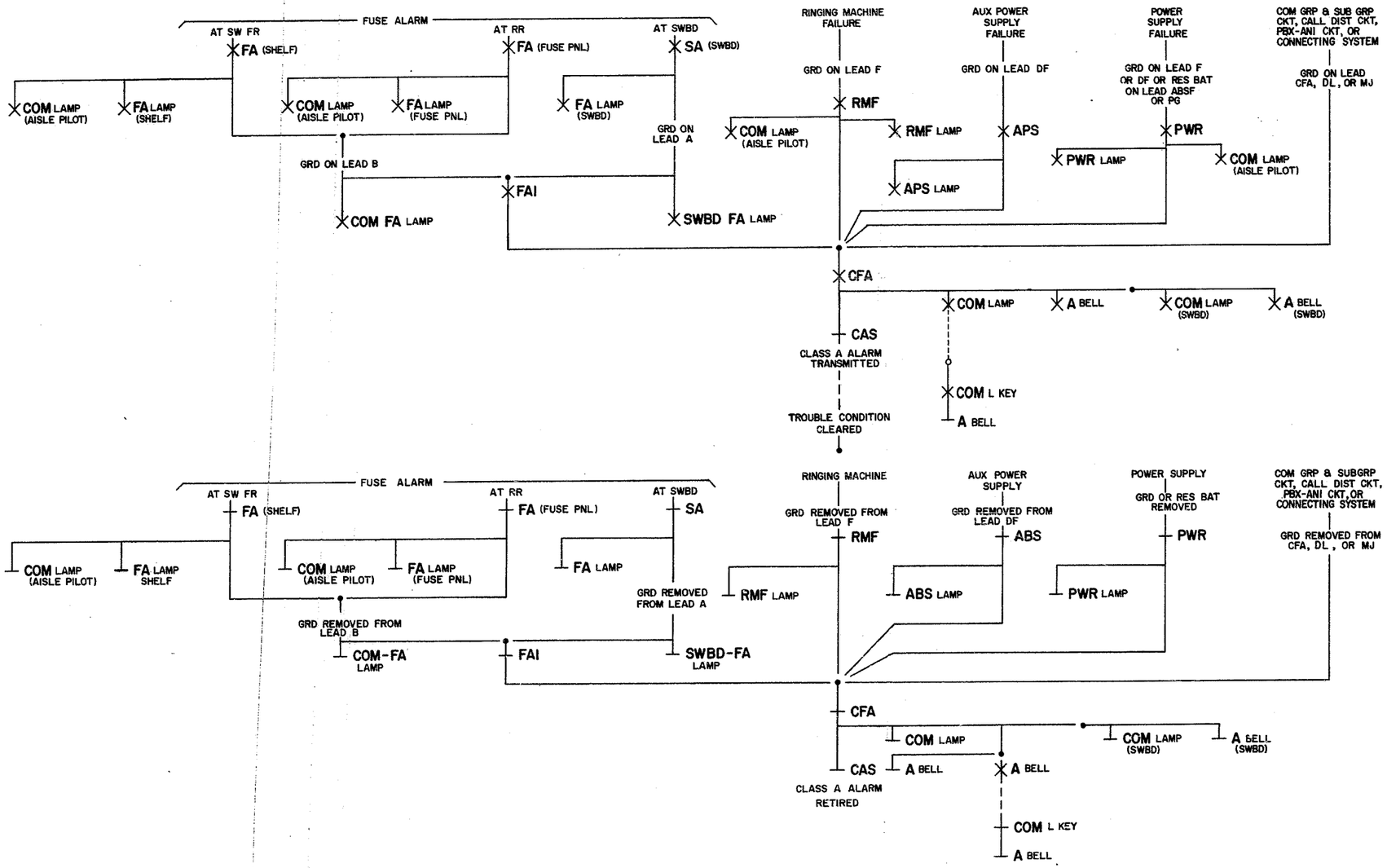
SD-65761-02-E2

SC 4
COMMON ALARM



DRAWING ISSUE
1 EME 9/5 RHF

MISCELLANEOUS ALARM CIRCUIT
2
SD-65761-02-E3

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SD-65761-02-E3

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG. *	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARML TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
ACO	1/2AK24		3	12					1U(ACO)	GRD			0		7.9	7.4	WDG ALONE
									1U(ACO)	GRD	1		0		54	51	ACO, BCO PARALLEL
APS	1/2AK24		3	12					1U(APS)	GRD			0		7.9	7.4	MOUNTED WITH (RMF)
CAS	AJ129		3	335			8(CFA)		U(CAS)	GRD			0		4.1	3.9	
CB	1/2AK4		3	202			(ACO)O 12(CB)		1U(CB)	GRD			0		11.9	11.3	MOUNTED WITH (S)
CFA	1/2AK4		3	202			(ACO)O 12(CFA)		1U(CFA)	GRD			0		11.9	11.3	
FA	1/2AK4	S	2	202			4(FA)	2L(FA)		BAT			0		11.9	11.3	MOUNTED WITH (RM1)
FA1	1/2AK24		3	12			(CFA)NO		1L(FA1)	GRD			0		8.0	7.4	MOUNTED WITH (ACO)

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG. *	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARML TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
PS	1/2AK4		1	202					1U(PS)	GRD			0		11.9	11.3	MOUNTED WITH (TO)
PSA	1/2AK4		3	202			(PSS)NO (ACO)O 1(PSA)		1L(PSA)	GRD			0		11.9	11.3	MOUNTED WITH (PSS)
PSS	1/2AK4		3	202					1U(PSS)	GRD			0		11.9	11.3	MOUNTED WITH (PSA)
PST	KS7828	R	3						1L(PST)	GRD	2						
PWR	AF12		3	20			(CFA)NO		1U(PWR)	GRD		P	0		19.5	18.5	
								2L(PWR)		BAT		S	0		11.7	11.1	
PU	AF67		1	207					U(PU)	GRD			0		7.2	6.8	
RM	U1410		2	111/101	SPL	SPL			TF(RM)	GRD	3,4	P	0		195	185	
									TF(RM)	GRD	3,4,5	P	NO		152	160	
									TF(RM)	GRD	3,4	P	P		47.5	50	
RMF	1/2AK24		3	12			(CFA)NO		1L(RMF)	GRD			0		8.0	7.4	MOUNTED WITH (APS)
RM1	1/2AK4		2	202			12(RM1)		1U(RM1)	GRD		0			11.9	11.3	MOUNTED WITH (FA)
RO	AF97		11	46			2(RO1)		1U(RO)			P	0		225	215	
							2(RO1)		2U(RO)			S	0		44.5	42	
RO1	AF156		11	295					U(RO1)	GRD			0		27	25.5	
RT	235E		3						TERM 3	GRD	6						
S	1/2AK4		3	202			(ACO)O (CAS)O 1(S)		1L(S)	GRD		0			11.9	11.3	MOUNTED WITH (CB)
ST	1/2AK23	R	3	3					1L(ST)	GRD		0			7.9	7.4	MOUNTED WITH (ST1)
ST1	1/2AK23		3	3					1U(ST1)	GRD		0			7.9	7.4	MOUNTED WITH (ST)
TO	1/2AK4		1	202					1L(TO)	GRD		0			11.9	11.3	MOUNTED WITH (PS)
TIMING REQUIREMENTS											7						
RD			3														

DRAWING ISSUE

I	EWC PJS HW RHF	

* HEADING IS "CKT FIG" ON ATTACHED-CONTACT TYPE DRAWINGS; FOR DETACHED-CONTACT TYPE DRAWINGS, HEADING IS "FIG."

NOTES:

1. RELAY (BCO) SHOWN ON SD-65773-01.
2. CONNECT GROUND TO RT TERMINAL. RELAY (PST) SHOULD OPERATE IN 20 TO 30 MINUTES.
3. CONTACT MAKE 6 READJ, 4 TEST.
4. ARMATURE TRAVEL 23.
5. THE NONOPERATE CURRENT SHOULD NOT BE TESTED UNDER FULL SOAK CONDITION.
6. TIME REQUIRED TO CLOSE CONTACTS (SECONDS) MAX 25 MIN 15, COOL PERIOD OF TWO MINUTES MIN.
7. TO TEST THE RELAY TIME DELAY CIRCUIT (RD) FOR TIMING INTERVAL, OPERATE RELAY (CB) OF LINE FINDER COMMON GROUP CIRCUIT. RELAY (TO) OF COMMON GROUP CIRCUIT SHOULD OPERATE IN 15-30 SECONDS.

MISCELLANEOUS ALARM CIRCUIT

(2)

SD-65761-02-FI

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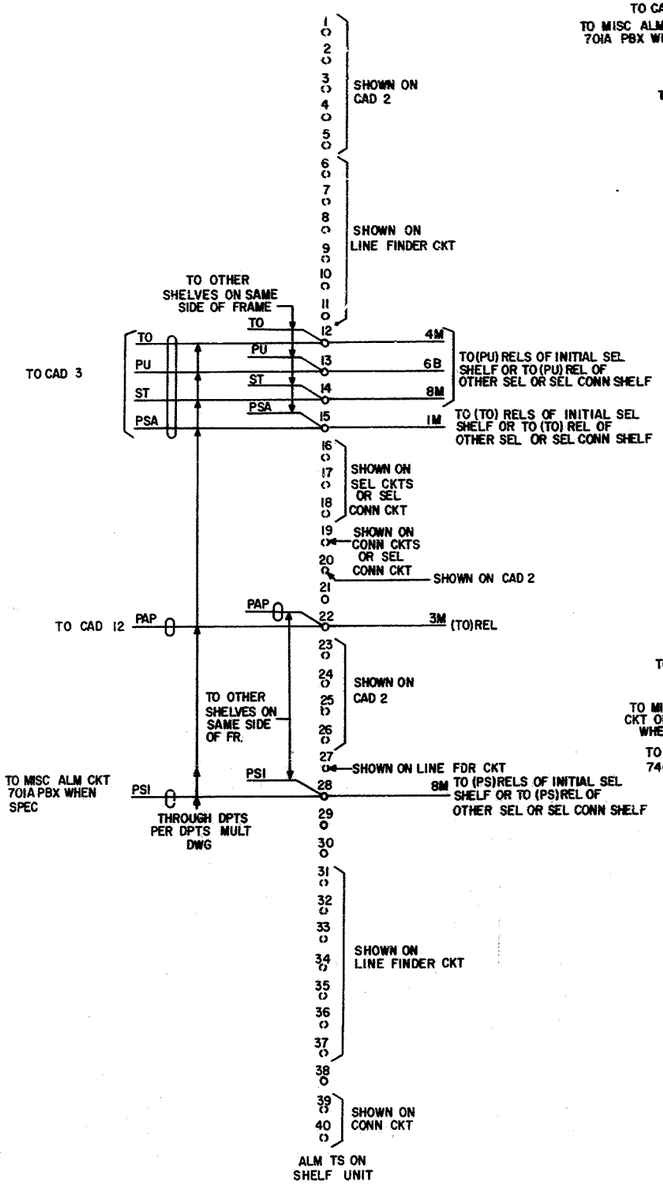
SD-65761-02-FI

E-7433 (4-69)

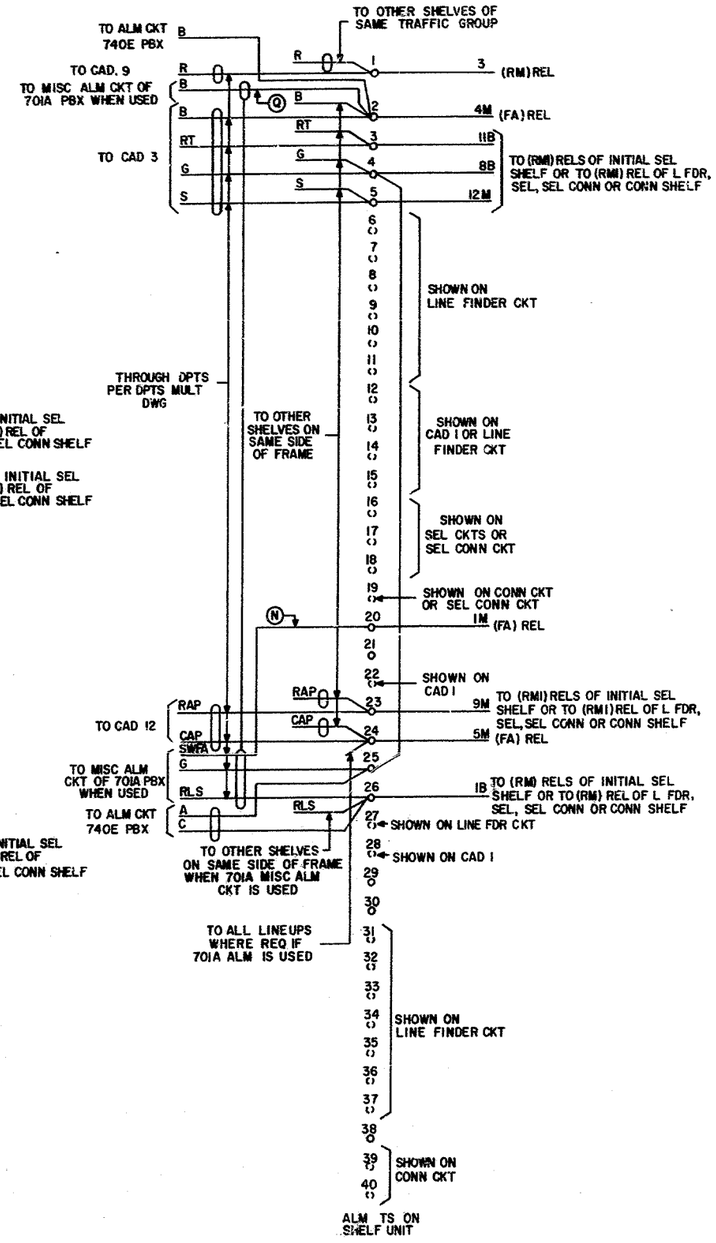
CAD 1

7018 & 7118
SHELF PERMANENT SIGNAL ALM
SHELF UNITS FOR FIRST, SECOND OR INCOMING SELECTORS, SELECTOR CONNECTORS OR CONNECTORS
(FOR APP FIG. 1)



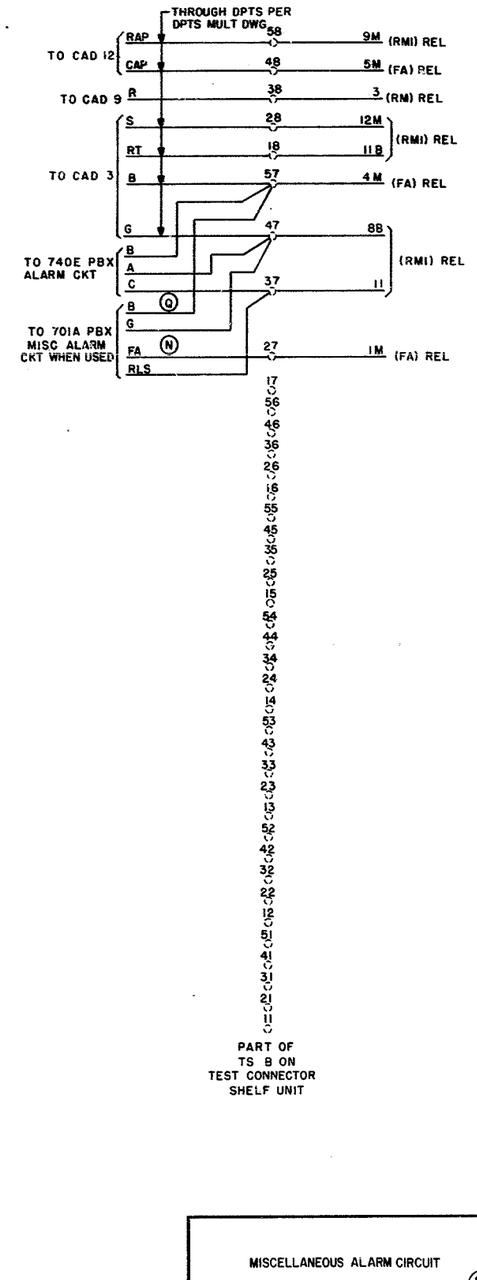
CAD 2

7018 & 7118
SHELF RELEASE MAGNET ALM, 48V FA RELAY
SHELF UNITS FOR LINE FINDERS, FIRST, SECOND, OR INCOMING SELECTORS, SELECTOR CONNECTORS OR CONNECTORS
(FOR APP FIG. 2)



CAD 18

7018 & 7118
SHELF RELEASE MAGNET ALM & 48V FA RELAY
TEST CONNECTOR SHELF UNIT
(FOR APP FIG. 2 AND "S" OPTION)



DRAWING ISSUE
1
4D

4

MISCELLANEOUS ALARM CIRCUIT
2
SD-65761-02-GI
BELL TELEPHONE LABORATORIES INCORPORATED
SIZE 6S
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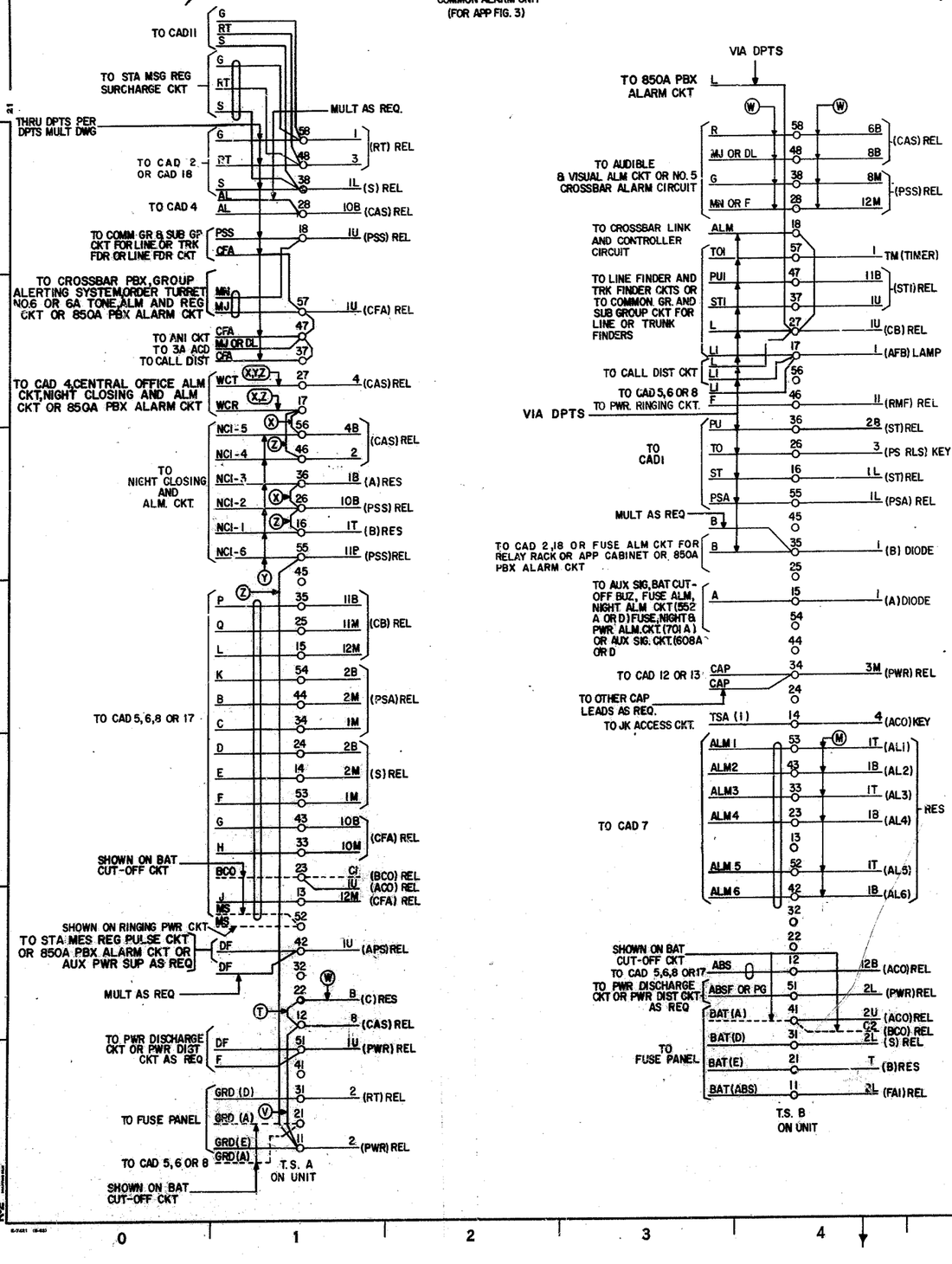
SD-65761-02-GI

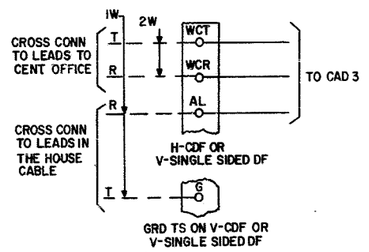
CAD 3

MISC ALARM COMMON ALARM UNIT (FOR APP FIG. 3)



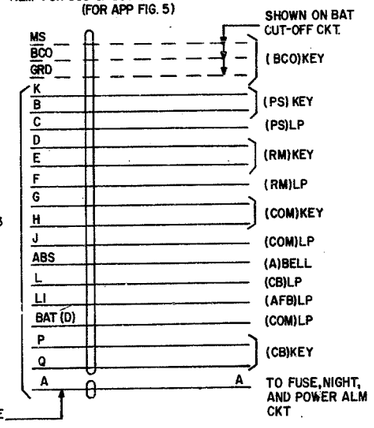
CAD 4

LEAD TO CENT OFF. ALM CKT & EXTERNAL ALM CKT.



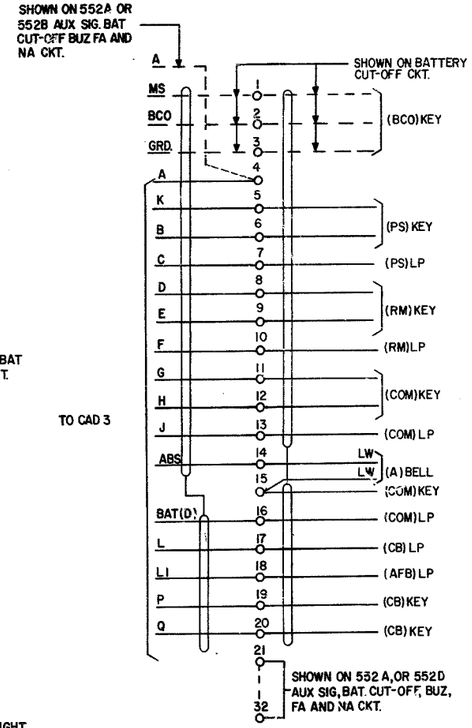
CAD 5

LEADS TO SWBD FOR AUD AND VISUAL ALM FOR 605 & 607 TYPE (FOR APP FIG. 5)



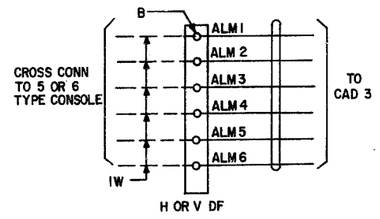
CAD 6

552A OR 552D PBX SWBD AUD AND VISUAL ALARM CKT (FOR APP FIG. 5)



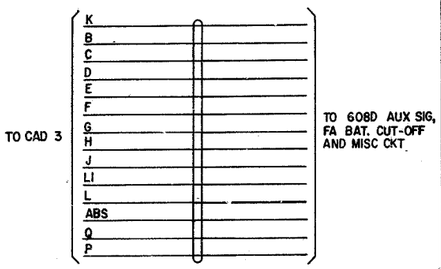
CAD 7

ALM LEADS FOR 5 OR 6 TYPE CONSOLES



CAD 17

LEADS TO SWITCHBOARD FOR AUD AND VISUAL ALM FOR 608D SWITCHBOARD



DRAWING ISSUE

1	REF INS RHP HW
2B	DR
3D	DR
4D	FAA DR

SD-65761-02-G2

4

MISCELLANEOUS ALARM CIRCUIT (2) SD-65761-02-G2

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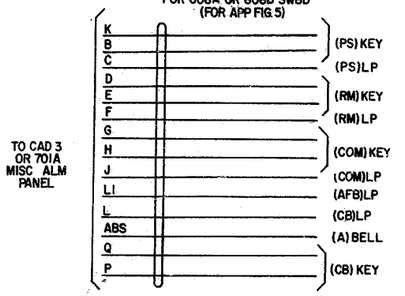
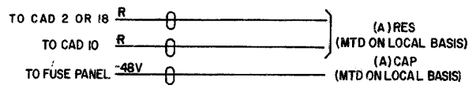
CAD 8

LEADS TO SWBD FOR AUD AND VISUAL ALM
FOR 608A OR 608B SWBD
(FOR APP FIG.5)



CAD 9

TRAFFIC REGISTER LEADS

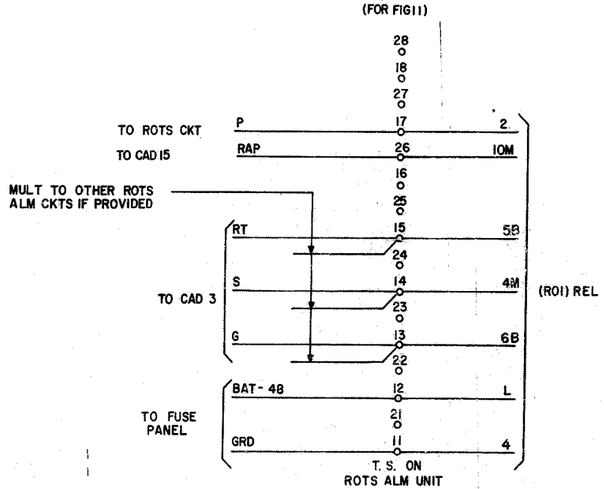


CAD 10

TRAFFIC REGISTER LEADS

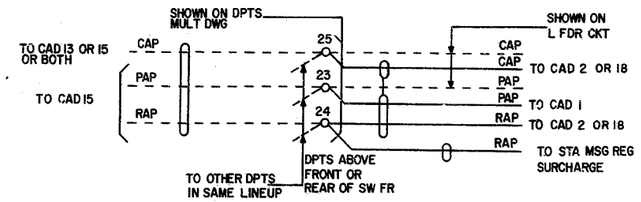
CAD 11

FOR ROTS ALM CKT
(FOR FIG 11)



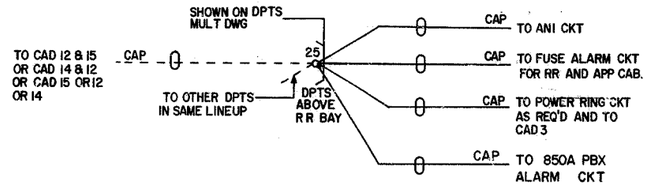
CAD 12

AISLE PILOT LEADS TO SW
FRAME SHELF UNITS
(EACH SIDE OF FRAME)
(FOR APP FIG. 6, 7, & 8)



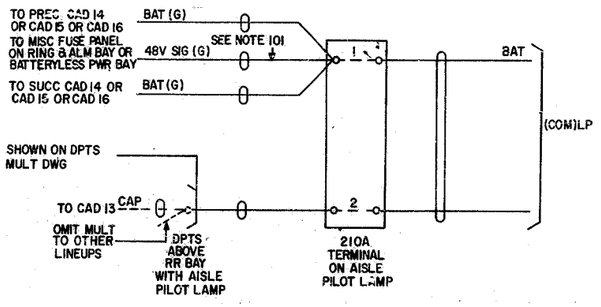
CAD 13

AISLE PILOT LEADS TO RELAY RACK ALM CKTS
RELAY RACK BAYS IN SW FRAME
LINEUP, OR A SEPARATE LINEUP
(FOR APP FIG. 8)



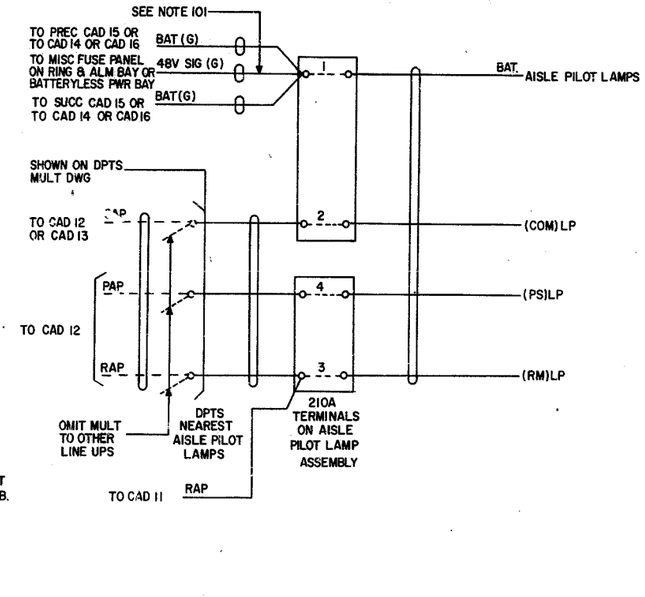
CAD 14

LEADS TO AISLE PILOT LAMP
FOR LINEUP OF RELAY RACKS ONLY
(FOR APP FIG. 8)



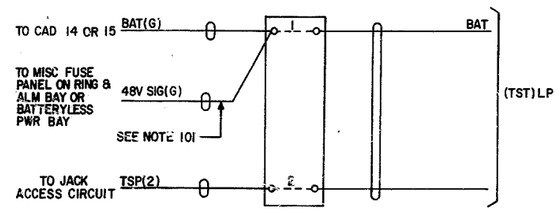
CAD 15

LEADS TO AISLE PILOT LAMPS
FOR SW FRAMES AND RELAY RACKS IN
SAME LINEUP FOR SWITCH FRAMES ONLY
(FOR APP FIG. 6, 7, & 8)



CAD 16

LEADS TO AISLE PILOT LAMP
& MISC ALM UNIT
(FOR APP FIG. 9)



DRAWING ISSUE
1 CED 215 RHS HW
3D DR
4D DR A

SD-65761-02-G3

4

MISCELLANEOUS ALARM CKT
SD-65761-02-G3
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