Task Oriented Practice
(TOP)

4ESS™ SWITCH

MISCELLANEOUS FRAMES A, B, AND C

SERVICE CIRCUITS & TRUNK TEST FACILITIES

Developed by
The AT&T Customer Information Development
and Business Translations Organization

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Issue 4	**APR 1994**
234-151-043	**TPG**
TITLE PAGE	**000**

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Developed by:

AT&T Network Systems Customer Education & Training

FIND YOUR JOB IN THE LIST BELOW . . . . . THEN GO TO

Acceptance NTP-002
Aisle Pilot Lamps — Test DLP-503
Alarm Circuit; Power — Continuity Check Transceiver — Test DLP-504
Amplifier And Pad Unit Using RMS-D2 — Adjust DLP-005
Attenuators; Loop Around Test Circuit — Continuity Check Transceiver — Adjust Using 51A Test Set DLP-506

Blown AC Distribution Fuse — Clear TAP-103
Blown Fuse — Fuse Panel J4A010AD — Clear TAP-105
Blown Fuse — Fuse Panel J4A012AF — Clear TAP-107
Blown Fuse — Fuse Panel J4A010BB — Clear TAP-113
Blown Fuse — Fuse Panel J4A010CB-1 — Clear TAP-115

Circuit Pack — Continuity Check Transceiver — Replace NTP-003
Converter; DC-DC — Continuity Check Transceiver — Replace NTP-004
Converter LED; Lighted — Continuity Check Transceiver — Clear TAP-109

DC-DC Converter — Continuity Check Transceiver — Replace NTP-004

Fuse; Blown — Fuse Panel J4A0101AD — Clear TAP-105
Fuse; Blown — Fuse Panel J4A012AF — Clear TAP-107
Fuse; Blown — Fuse Panel J4A010BB — Clear TAP-113
Fuse; Blown — Fuse Panel J4A010CB-1 — Clear TAP-115

Lamps; Aisle Pilot — Test DLP-503
Lamps — Power Switch — Test DLP-500
LED; Lighted Converter — Continuity Check Transceiver — Clear TAP-109

TASK INDEX LIST

FIND YOUR JOB IN THE LIST BELOW	THEN GO TO
Lighted Converter LED — Continuity Check Transceiver — Clear	TAP-109
Loop-Around And Test Circuit Attenuators — CPS FB606 - Using RMS-D2 And CONNECTVU or TOPAS	DLP-512
Loop-Around And Test Circuit Attenuators — CPS FB606 — Using RMS-D2 And CMS-1C	DLP-513
Loop-Around Test Circuit Attenuators — Continuity Check Transceiver — Adjust Using 51A Test Set	DLP-506
Loop-Around Test Failure — Continuity Check Transceiver — Clear	TAP-111
Maintenance Philosophy	TAD-100
Pilot Lamps; Aisle — Test	DLP-503
Power Alarm Circuit — Continuity Check Transceiver — Test	DLP-504
Power Switch — Replace	DLP-501
Test Circuit Attenuators; Loop-Around — Continuity Check Transceiver — Adjust	DLP-506
Test Failure; Loop-Around — Continuity Check Transceiver — Clear	TAP-111
Transceiver Failure — Continuity Check Transceiver — Clear	TAP-110
Trunks — Continuity Check Transceiver — Restore to Service	DLP-507
TTY Printout — **TEST:TRK,CIN** a **SVC*XCVR*****bbb,SVC STF**	TAP-110
TTY Printout — **TEST:TRK,CIN** a **SVC*XCVT*****bbb,SVC STF**	TAP-111

No acceptance test procedures are required for this frame.
The readiness of this frame to become a part of the
working system was established by the successful
completion of Installation Handbook test procedures

ACCEPTANCE

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At Appropriate CCT Power Switch, Rotate **ROS/OFF** Switch Clockwise to **ROS** Position	—
2	Replace Circuit Pack	DLP-502
3	At Power Switch, Rotate **ROS/OFF** Switch Counterclockwise to Normal Position	—
4	Restore to Service Trunks Associated With CCT Unit	DLP-507
5	If Circuit Pack Replaced Was FB606 (LAT), Adjust Attenuators	DLP-506

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	At Appropriate CCT Power Switch, Rotate **ROS**/**OFF** Switch Clockwise to **ROS** Position	—
2	Replace DC-DC Converter	DLP-505
3	At Power Switch, Rotate **ROS**/**OFF** Switch Counterclockwise to Normal Position	—
4	Restore to Service Trunks Associated With CCT Unit	DLP-507

REPLACE DC-DC CONVERTER, CONTINUITY CHECK TRANSCEIVER

DO THE ITEMS BELOW IN THE ORDER LISTED		FOR DETAILS, GO TO
1	Remove Associated Signal Link From Service	DLP-509
2	At TTY, Enter **RMV:TGR** a,**TER** b! (a = Terminal Group, b = Terminal Number)	—
	NOTE: Power switch associated with **TERMINAL 01** is associated with amplifier and pad unit 01.	
3	Determine Power Switch Associated With Amplifier and Pad Unit To Be Adjusted	DLP-510
4	At Appropriate Power Switch, Rotate **ROS/OFF** Switch to **ROS** *Response:* **ACK** Lamp Flashes; Then **OS** and **OFF NORM** Lamps Light	—
5	At Appropriate Power Switch, Depress **ROS/OFF** Switch *Response:* **PWR OFF** Lamp Lights	—
6	Adjust Amplifier and Pads Using RMS-D2	DLP-511
	NOTE: If **OS** lamp flashes off and on and remains lighted, diagnostic failed.	
7	At Power Switch, Rotate **ROS/OFF** Switch 1/4-Turn Counterclockwise to Normal Position *Response:* **OS** and **OFF NORM** Lamps Go Off	—
8	At TTY, Enter **RST:TGR** a,**TER** b! (a = Terminal Group, b = Terminal Number)	—
9	Enter **RST:SIGLK** a! (a = Signal Link Number Removed in Item 1)	—
10	Inform STP Office That Signal Link Is Restored to Service	—

General

The maintenance philosophy contained in this volume is based upon the design of equipment hardware, service circuit software and test equipment employed. Procedures provided are intended to aid personnel in performing trouble-clearing tasks. When procedures are affected by differences in hardware and/or software, the procedure will address the difference, where possible. When extensive differences warrant, separate procedures will be provided and referenced according to SD, J-spec or option. Where a procedure does not address differences, it will apply to all versions and options of the equipment. Reference documents such as SDs, PRs, I/O manuals, etc, are referred to where applicable rather than duplicating information. Some portions of documents may be utilized in procedures but only as examples for purposes of explanation. Some procedures will require the use of test equipment; however, no attempt is made to provide the detail required to set up the equipment in order to obtain the expected results.

When documenting a procedural approach to trouble-clearing, certain assumptions are made. It is assumed that one fault is being cleared at a time. When directing the user to perform an action, it is assumed that he performs that action correctly. Similarly, when directed to make replacements, the replacement part is always assumed to be good and equipment used for testing, both built-in (hardware and software) and commercial, are assumed to be good. Only consistent fault signatures are covered.

IXL PHILOSOPHY

The Task Index List [IXL-001] is structured to provide fast access to procedures pertinent to identified symptoms. Within the IXL, procedures are listed by automatic devices (power alarms) and TTY printouts (TEST:TRK, CIN-STF-some tests failed). Power faults are sensed by scan points which generate a major or minor alarm. The IXL is based on the assumption that the user following aisle pilot lights or reading REPT:PA printout can locate frame with the power fault. Symptoms, described in the IXL, reflect the above assumptions and indicate other conditions that are observable at the frame to enable user to access the proper trouble-clearing procedures. These conditions are blown fuse or lighted LED.

The service circuit trunks (XCVR and XCVT), which are the continuity check transceivers (CCT) and loop-around test circuits (LAT), will cause most of the functional circuit failures within the frame. When an irregularity is detected, implicating service circuit trunks, trunk maintenance (TMAD) and/or error analysis (TERA) programs are called. TMAD and TERA will, through retrial and service circuit testing, filter out inconsistent faults. Consistent faults will result in trunks being removed from service and test failure results being printed. The test failure messages (**TEST:TRK, CIN - SVC**) will provide the access to trouble-clearing procedures through the IXL. The procedures on the IXL are listed according to service circuit type (XCVR or XCVT).

TAP PHILOSOPHY

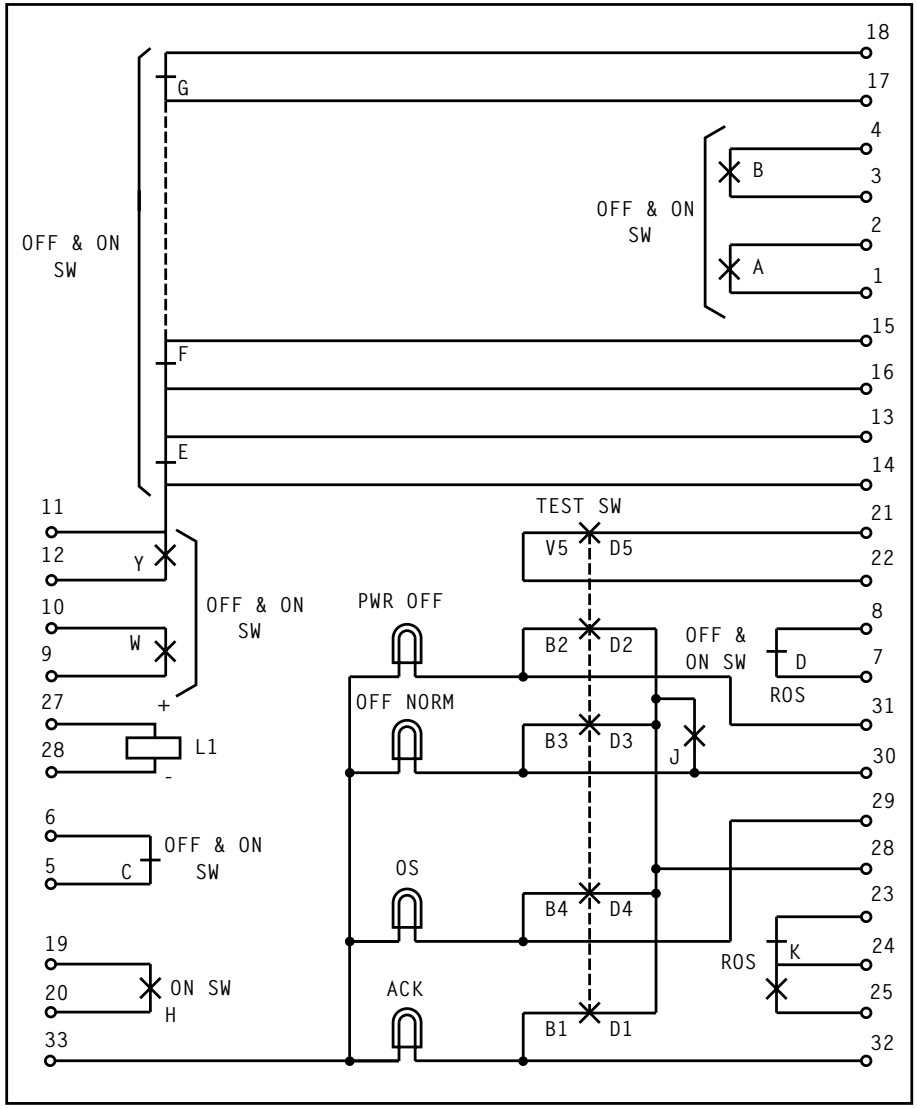
The power alarm related TAPs address spurious faults and circuit failures. Spurious faults require only the replacement of blown fuses and/or the restoration of power. When power cannot be restored, TAPs will take the user through an isolation process to clear the trouble.

Each service trunk, CCT or LAT, within the frame has only one circuit pack; therefore, TAPs provide the step-by-step procedure required to identify and replace faulty pack.

When circuit pack replacement does not clear the faulty condition (power alarm or test failure), a higher level of maintenance will be required to isolate the trouble cause. TAPs will reference the appropriate SD to be used for troubleshooting and/or signal tracing. However, no attempt is made to provide the step-by-step procedure required for this level of maintenance.

ALTERNATE METHODS

The more knowledgeable and experienced personnel may access TOP documents at a point in trouble clearing where analyzation is completed (faulty component determined) and only repair or replacement required. Most DLPs are built to support TAPs and NTPs with preconditioning and system restoration steps covered in those level procedures (TAPs, NTPs). Therefore, access to data (DLPs) on a hunt and find basis is a threat to equipment operation and may compound trouble-clearing problems.



POWER SWITCH

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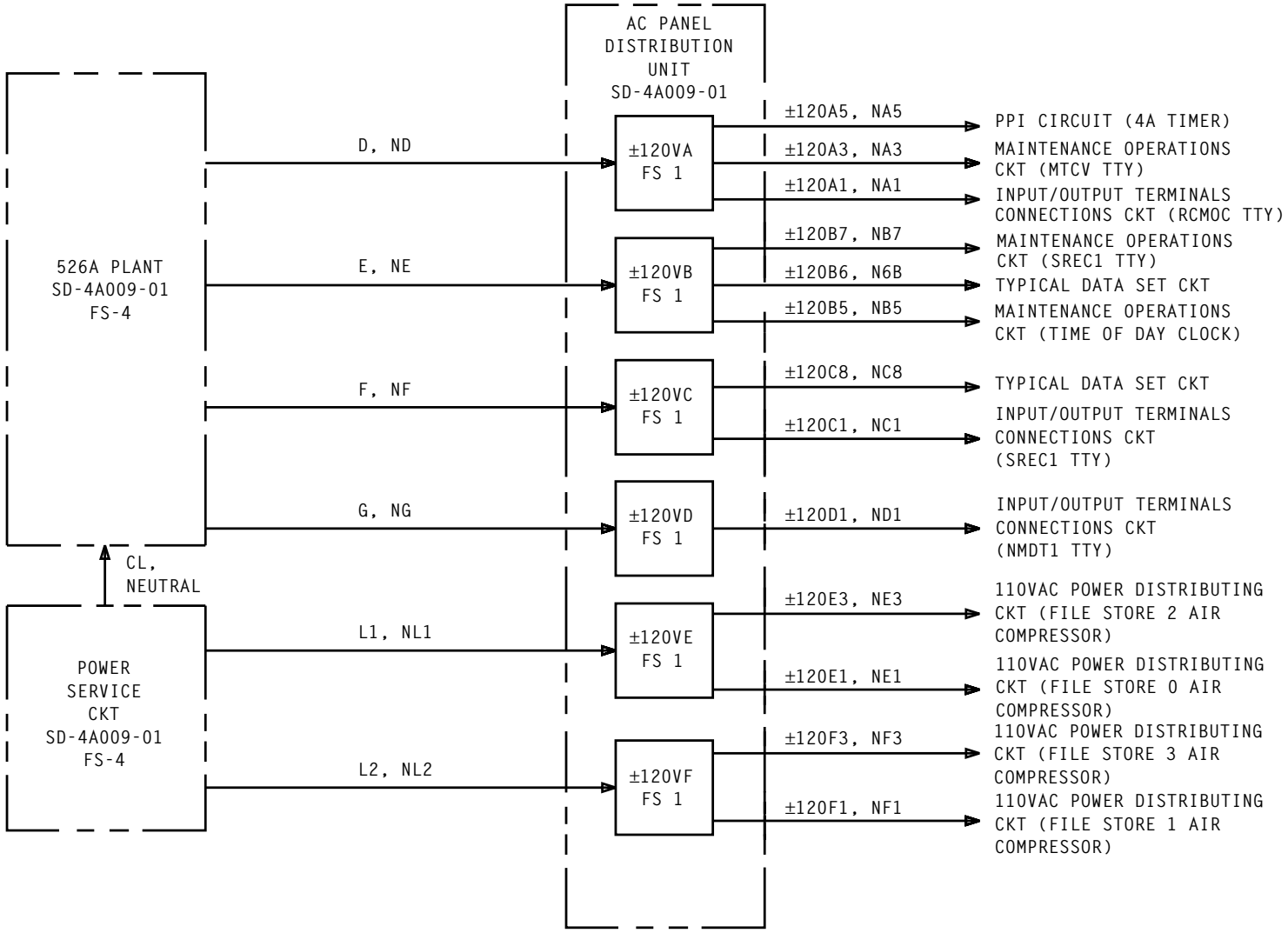

AC DISTRIBUTION FUSE CIRCUIT

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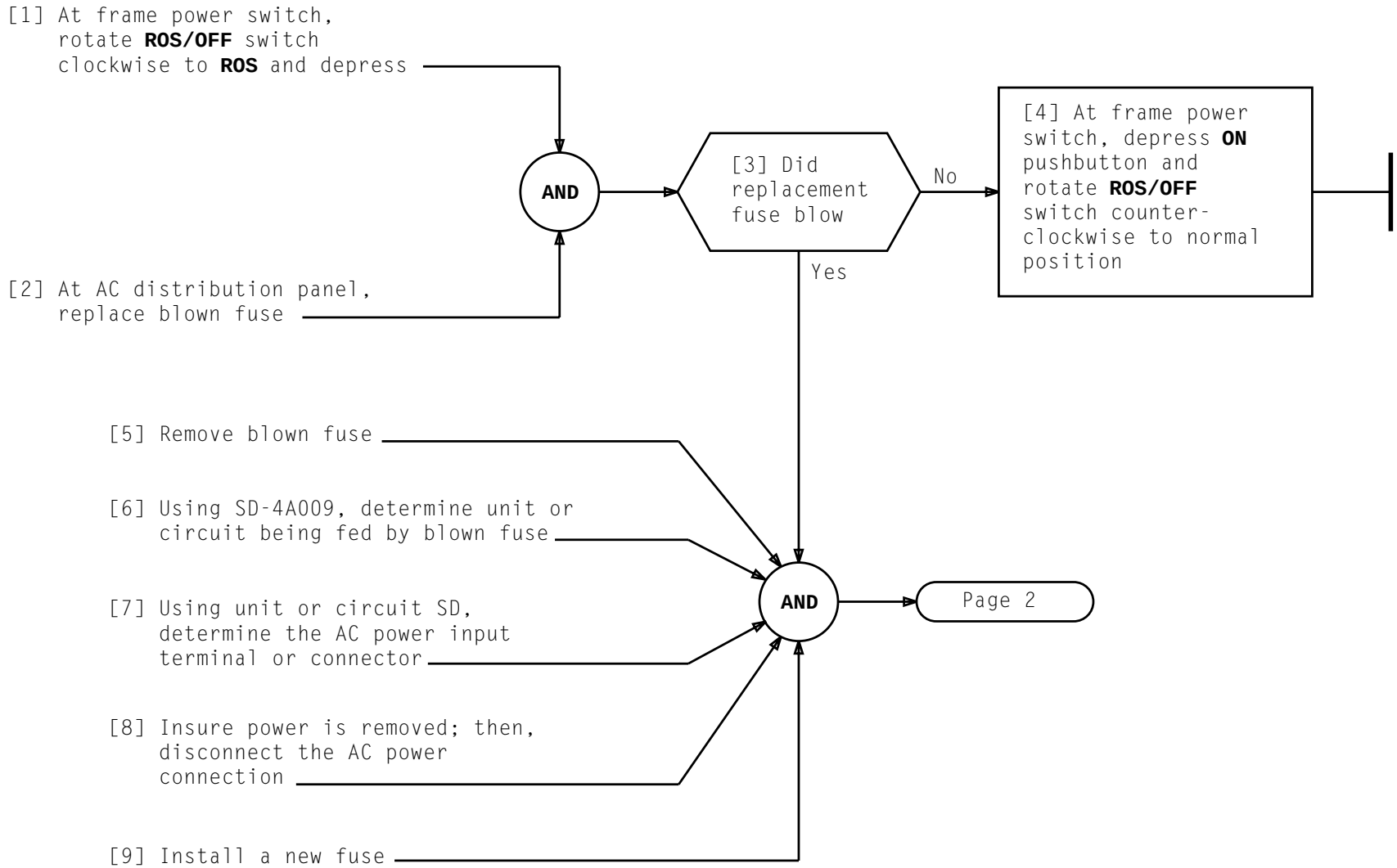
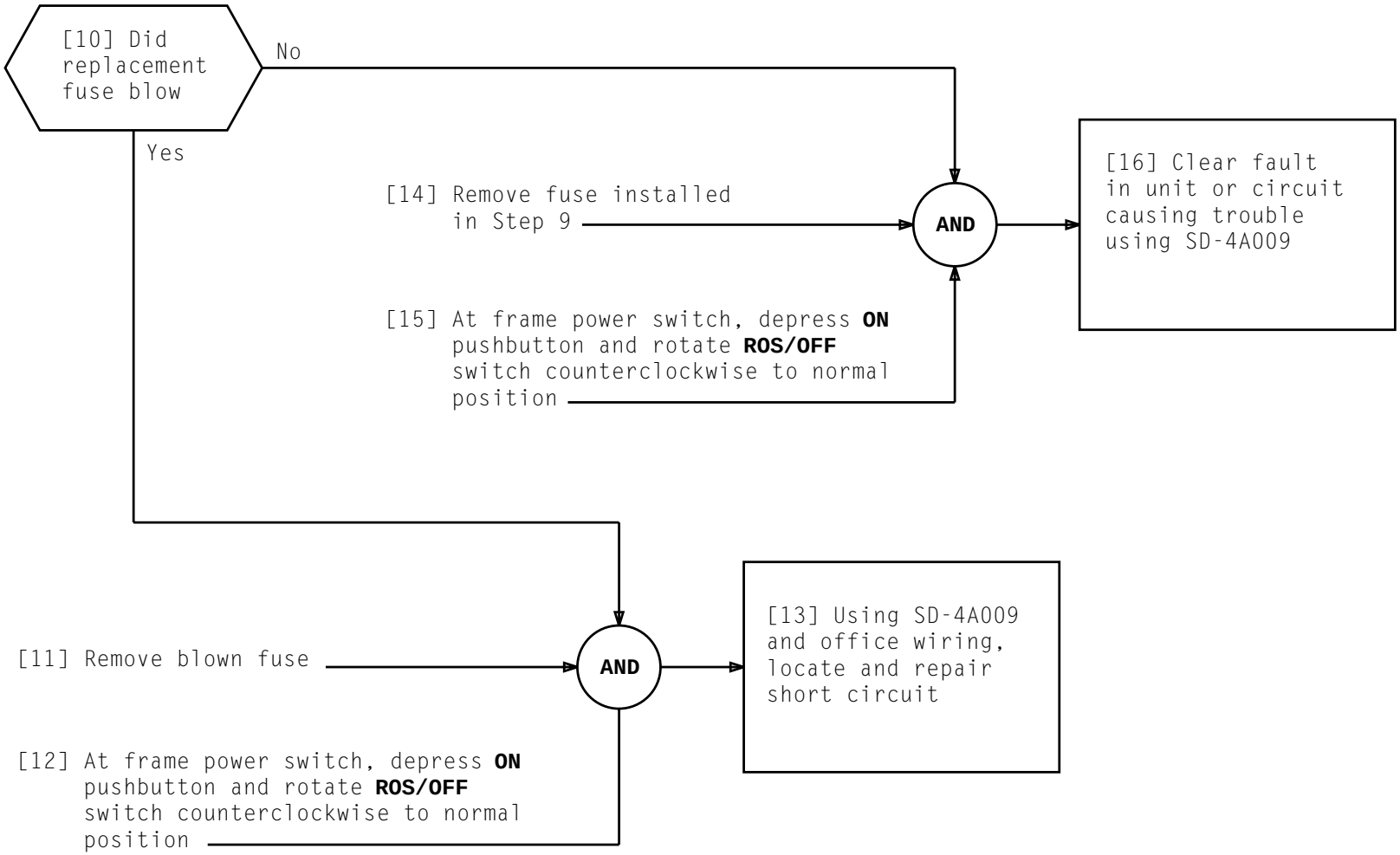
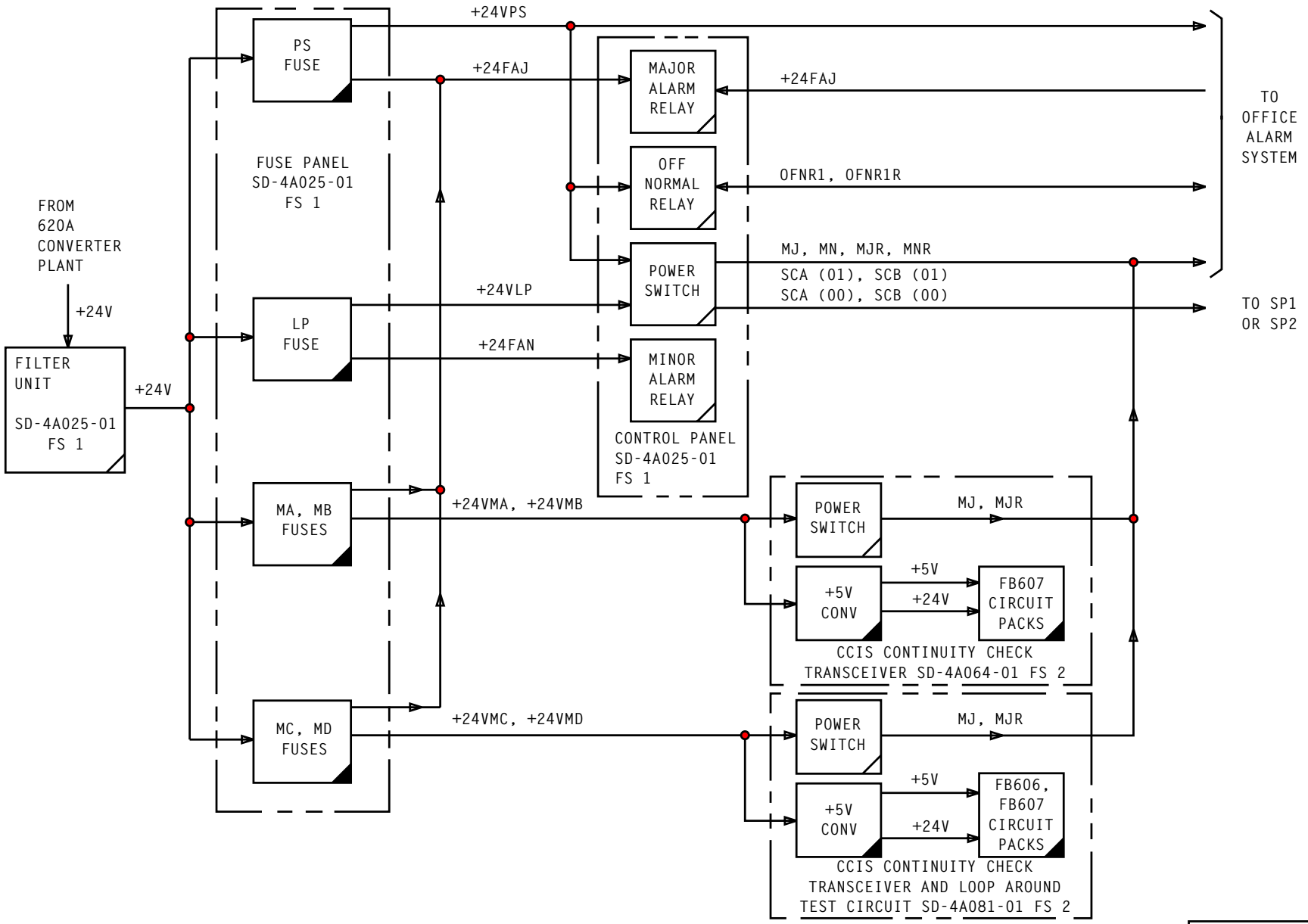


CLEAR BLOWN AC DISTRIBUTION FUSE



CLEAR BLOWN AC DISTRIBUTION FUSE



FUSE PANEL J4A010AD CIRCUIT

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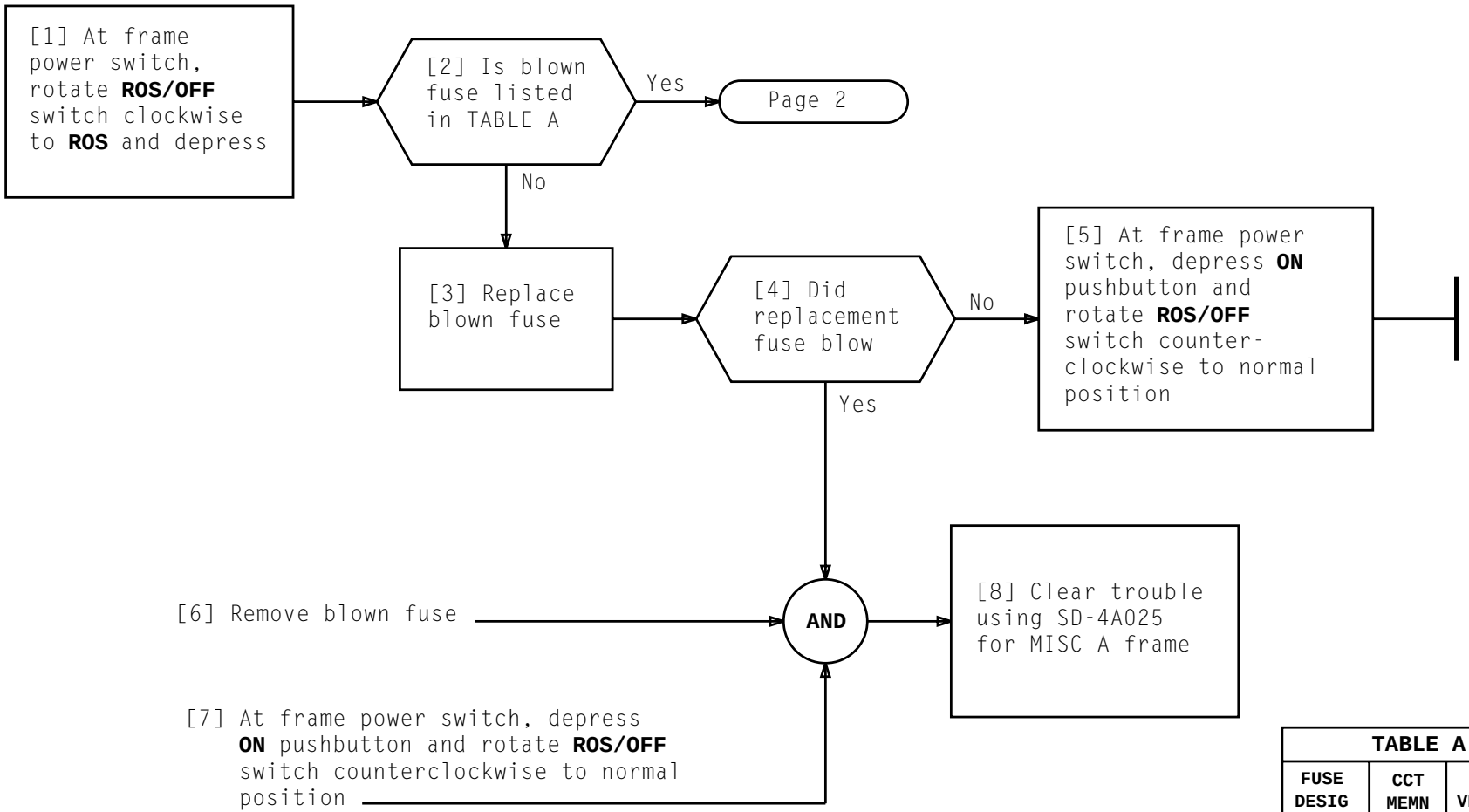
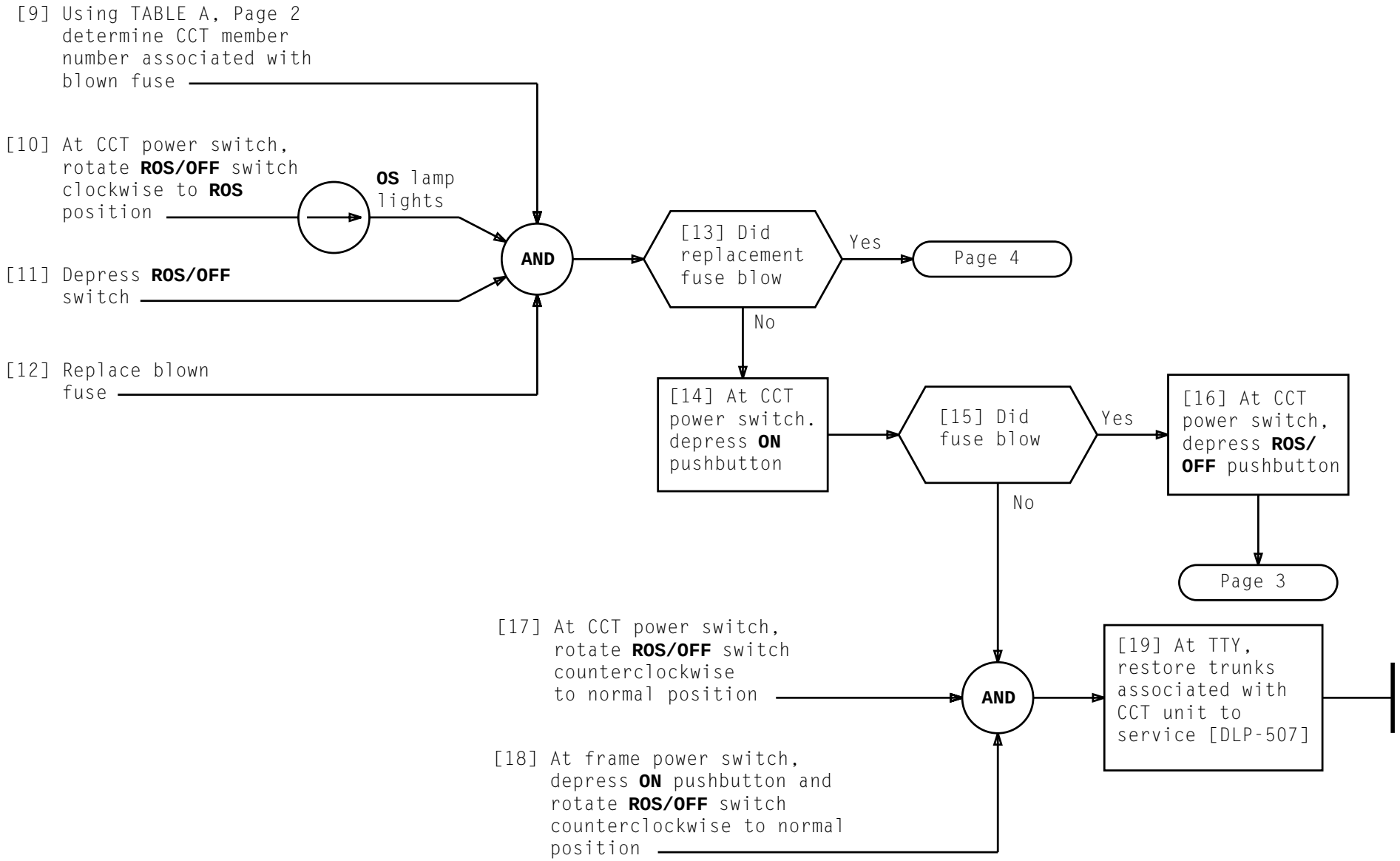
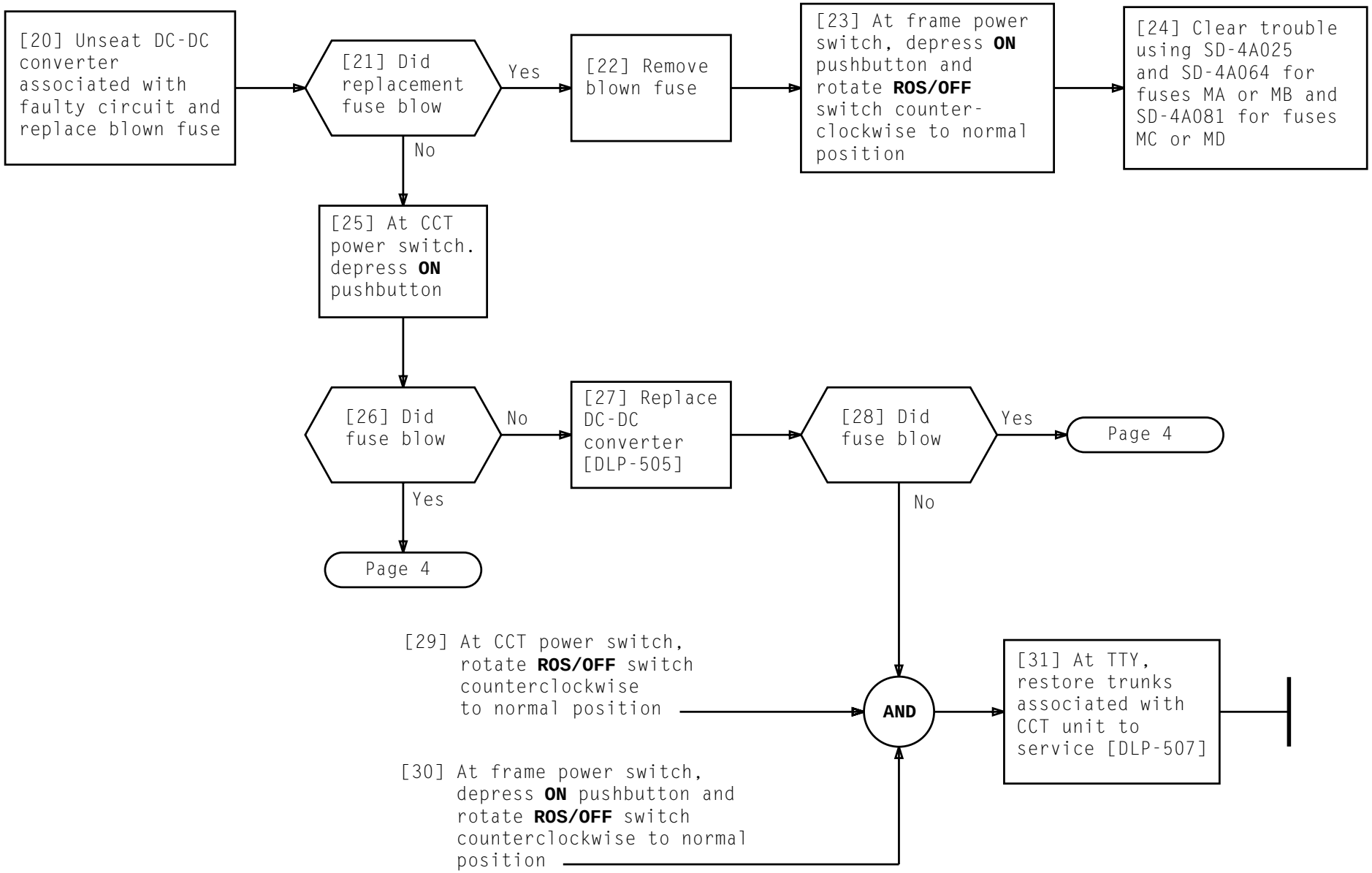


TABLE A		
FUSE DESIG	**CCT MEMN**	**CCT VERY. POS**
MA	CCT3	60
MC	CCT2	56
MB	CCT1	52
MD	CCT0	48

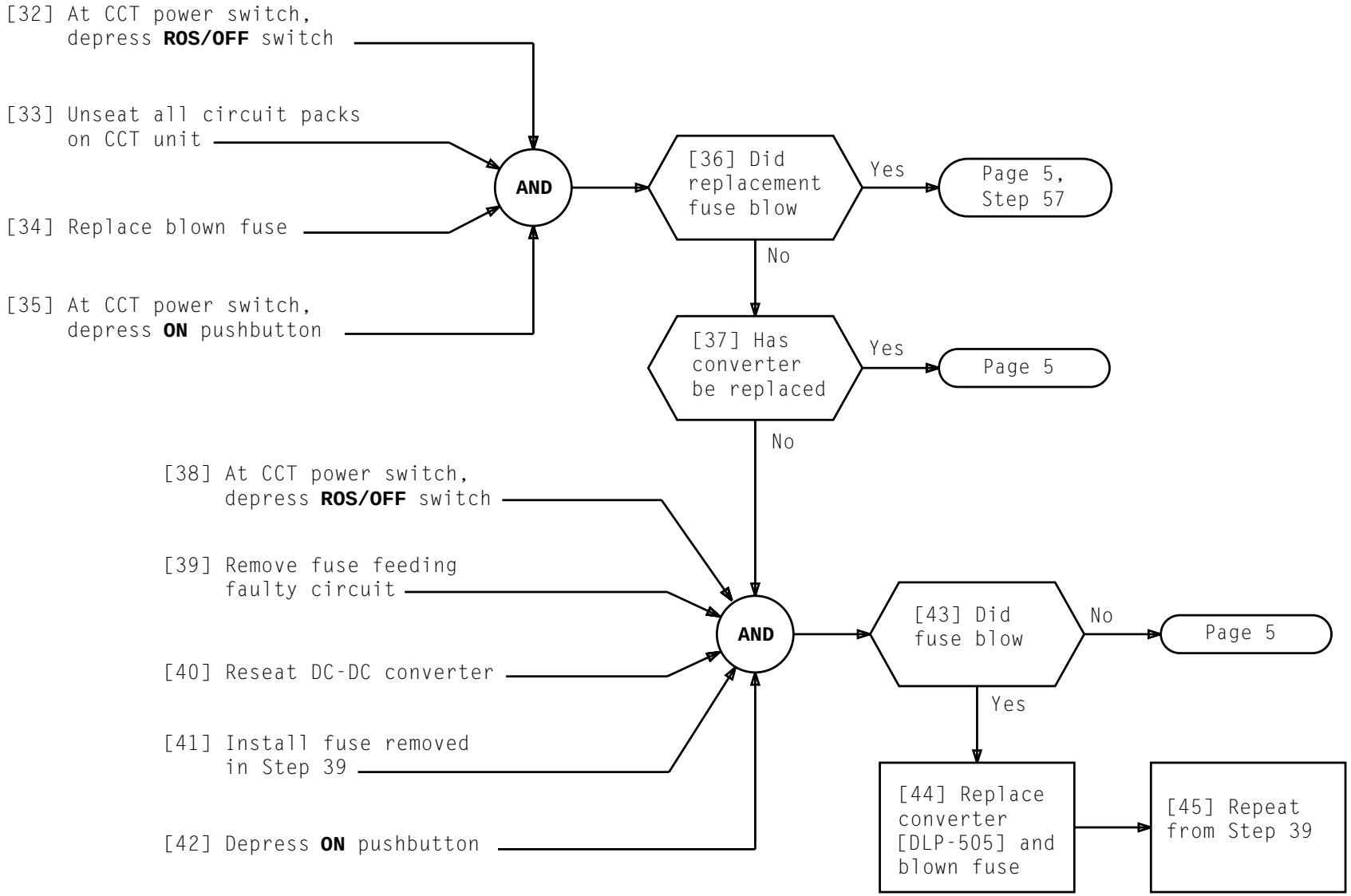
CLEAR BLOWN FUSE, FUSE PANEL J4A010AD



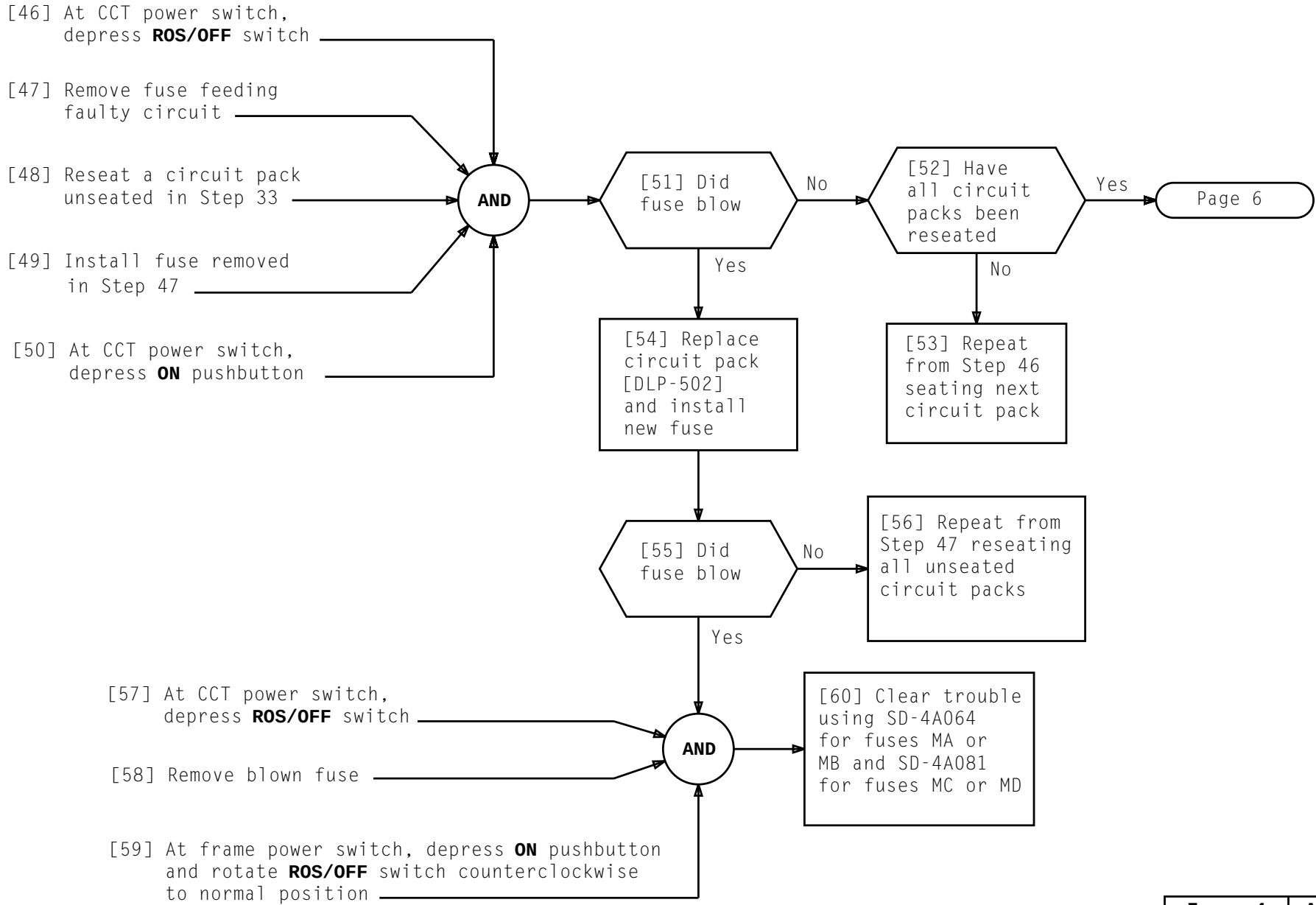
CLEAR BLOWN FUSE, FUSE PANEL J4A010AD



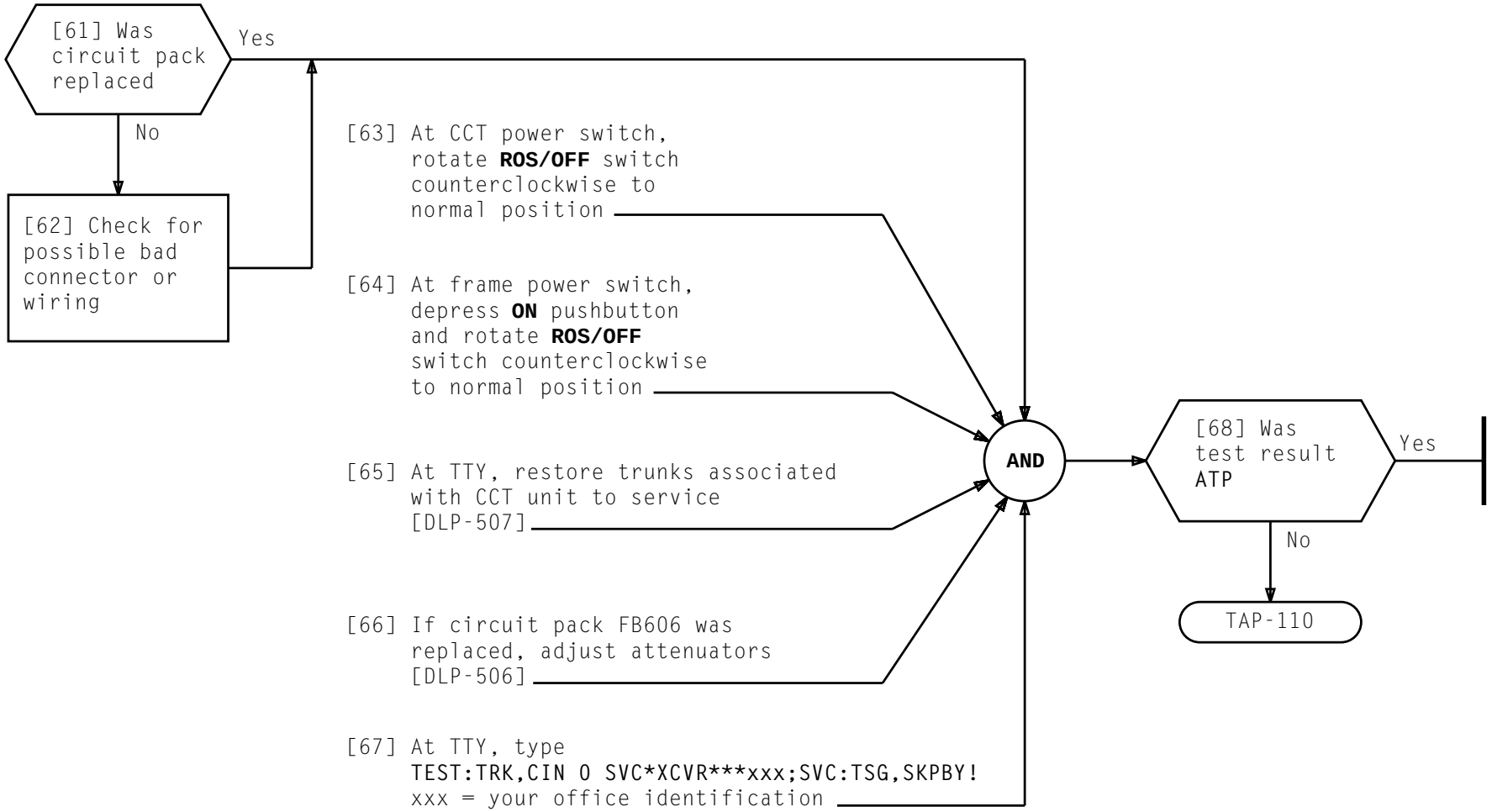
CLEAR BLOWN FUSE, FUSE PANEL J4A010AD



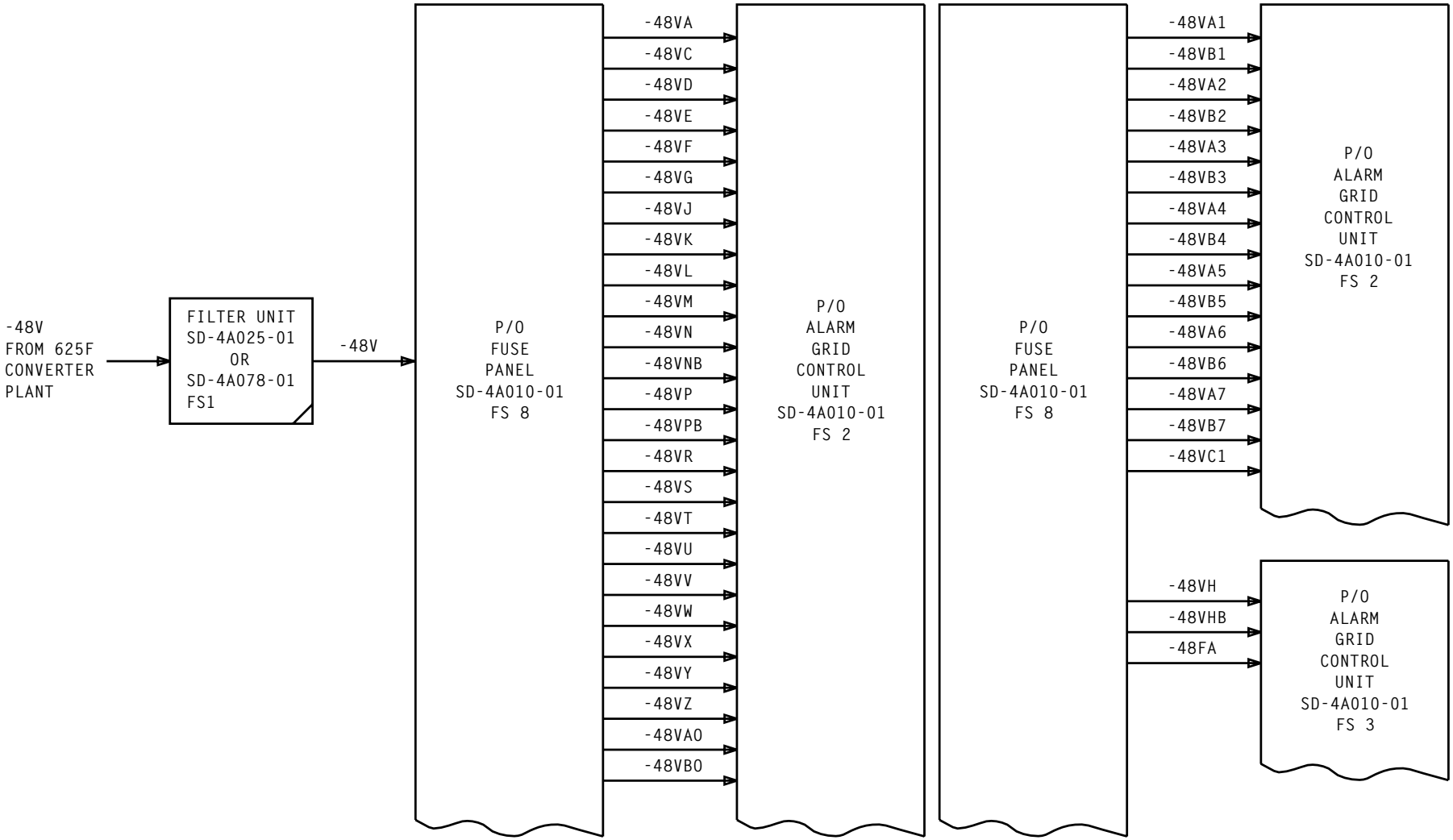
CLEAR BLOWN FUSE, FUSE PANEL J4A010AD



CLEAR BLOWN FUSE, FUSE PANEL J4A010AD



CLEAR BLOWN FUSE, FUSE PANEL J4A010AD



FUSE PANEL J4A012AF, -48V DISTRIBUTION

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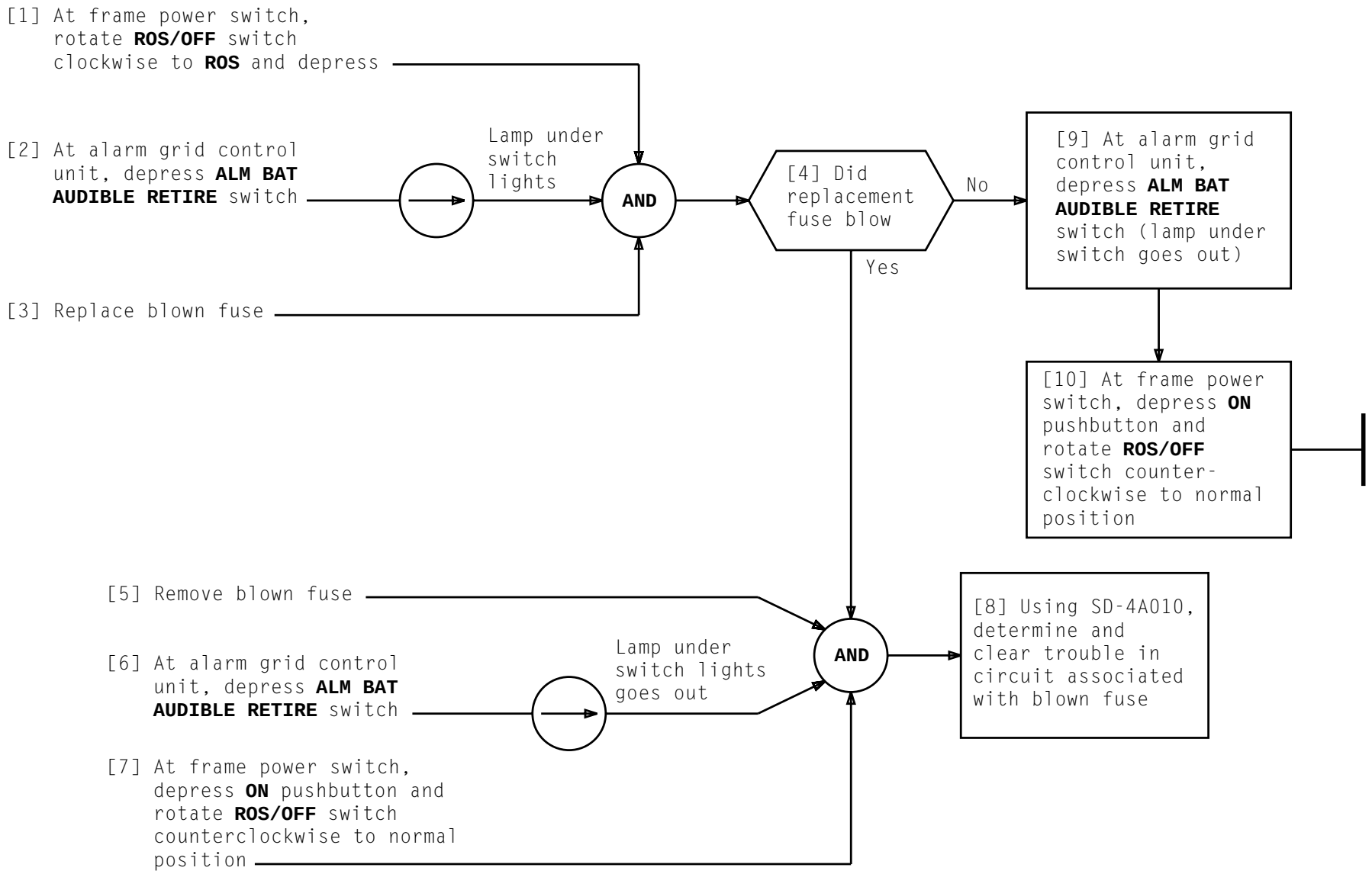
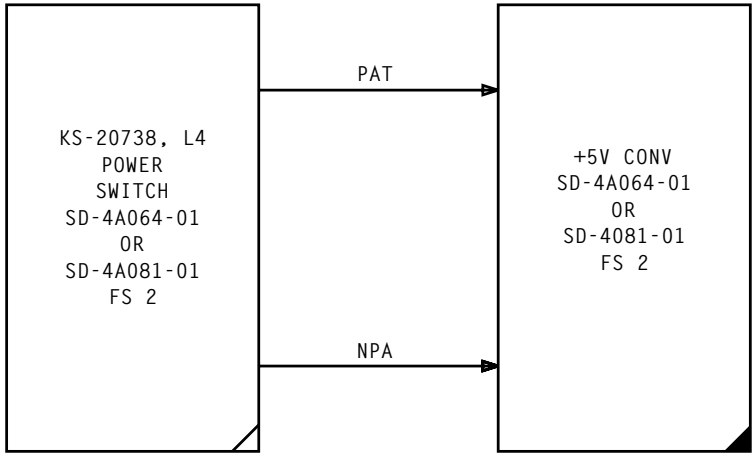
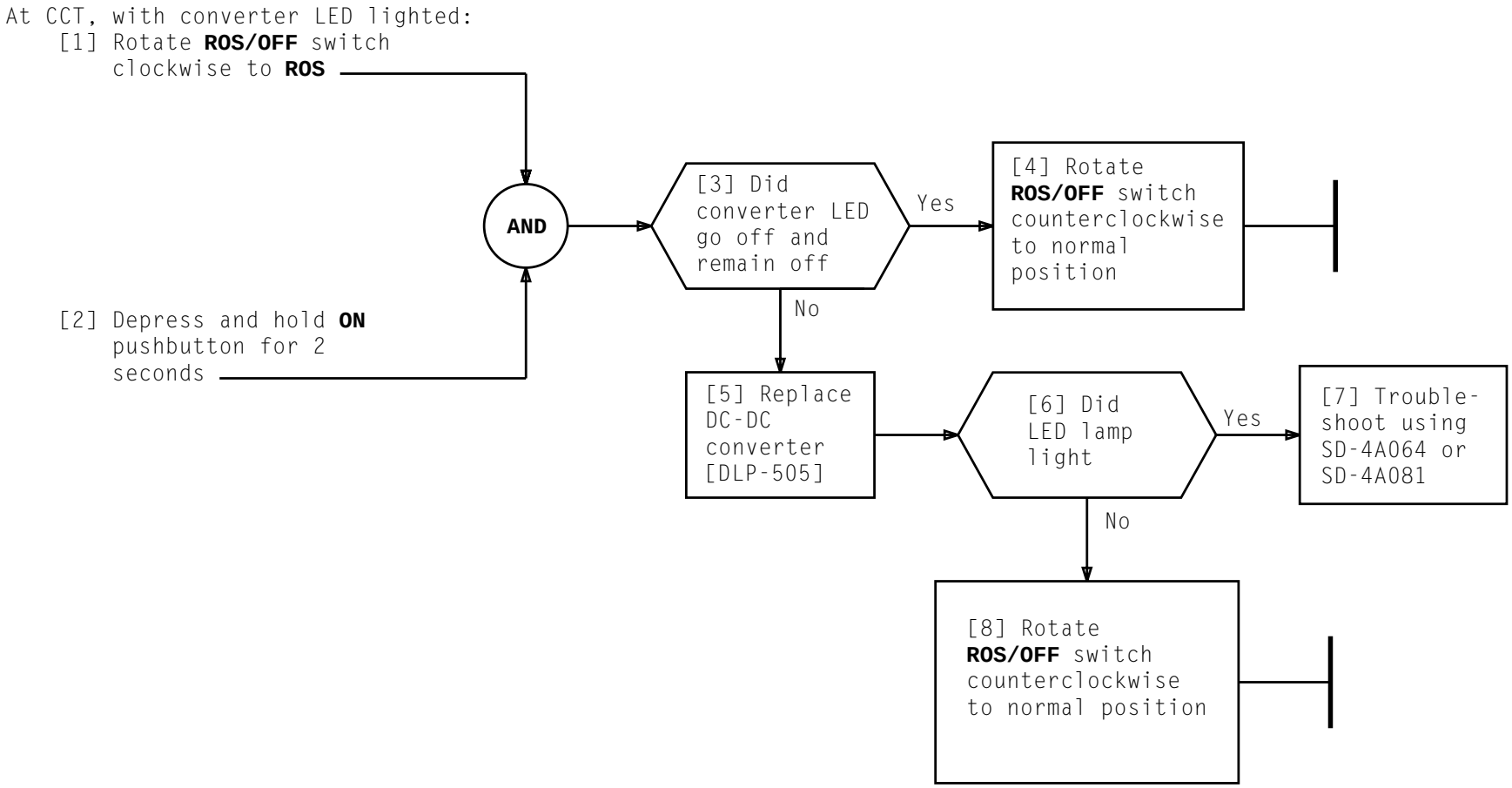


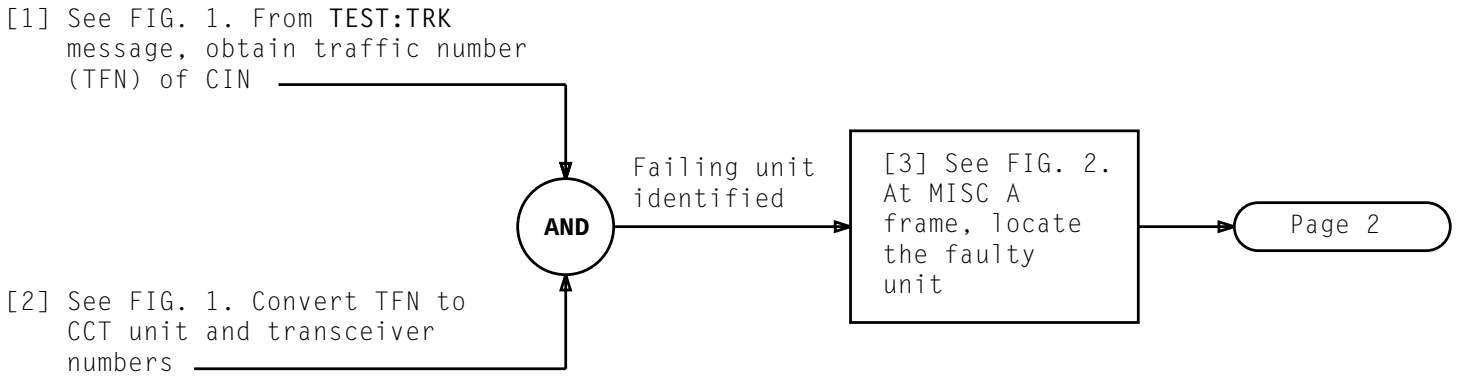
CLEAR BLOWN FUSE ON FUSE PANEL J4A012AF



CONVERTER POWER ALARM TEST CIRCUIT, CONTINUITY CHECK TRANSCEIVER



CLEAR CONVERTER LIGHTED LED CONTINUITY CHECK TRANSCEIVER



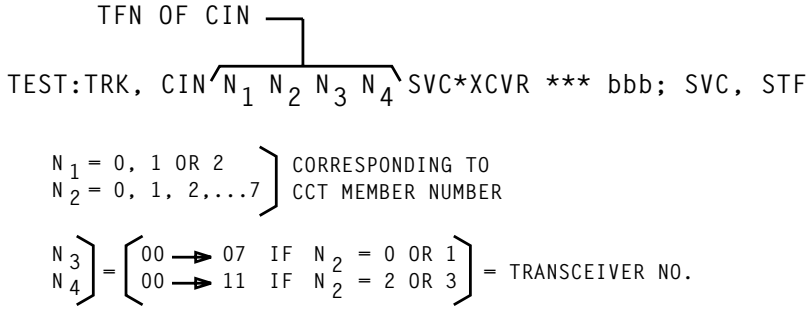


FIG. 1 — TFN Identification for Transceivers

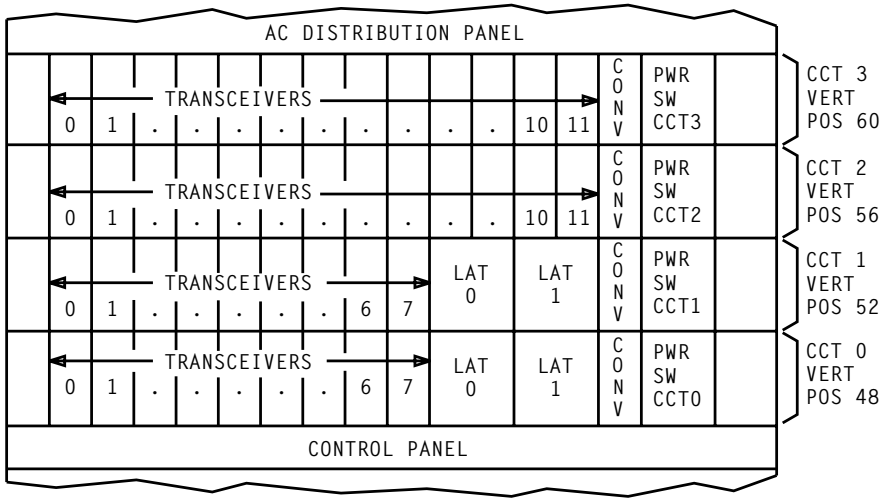
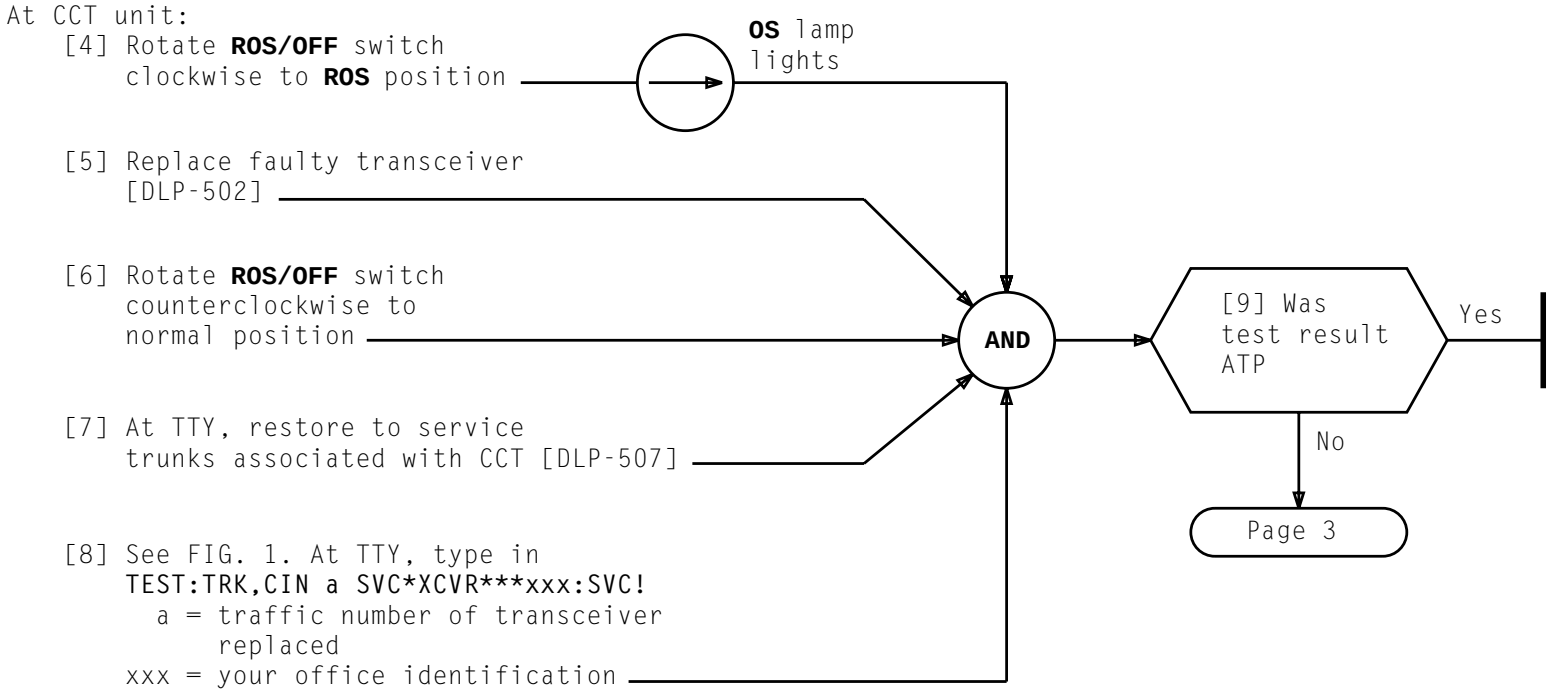
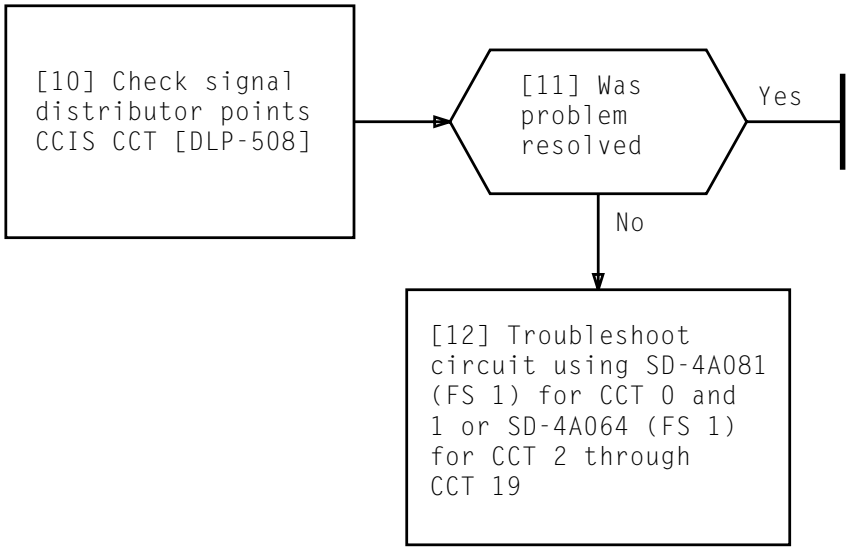


FIG. 2 — Partial MISC A Frame

CLEAR TRANSCEIVER FAILURE, CONTINUITY CHECK TRANSCEIVER



CLEAR TRANSCEIVER FAILURE, CONTINUITY CHECK TRANSCEIVER



CLEAR TRANSCEIVER FAILURE, CONTINUITY CHECK TRANSCEIVER

[1] See FIG. 1. From **TEST:TRK** message, obtain traffic number (TFN) of CIN

[2] See FIG. 1. Convert TFN to CCT unit and loop-around test CKT (LAT) numbers

AND

Failing unit identified

[3] See FIG. 2. At MISC A frame, locate the faulty LAT

Page 2

TFN OF CIN

TEST:TRK, CIN N_1 N_2 N_3 N_4 SVC*XCVT***bbb; SVC, STF

N_1 = 0 OR NOT PRINTED

N_2 = 0 OR NOT PRINTED

N_3 = 0 OR 1 CORRESPONDING TO CCT MEMBER NUMBER

N_4 = 0 OR 1CORRESPONDING TO LAT MEMBER NUMBER

FIG. 1 — TFN Identification for LAT

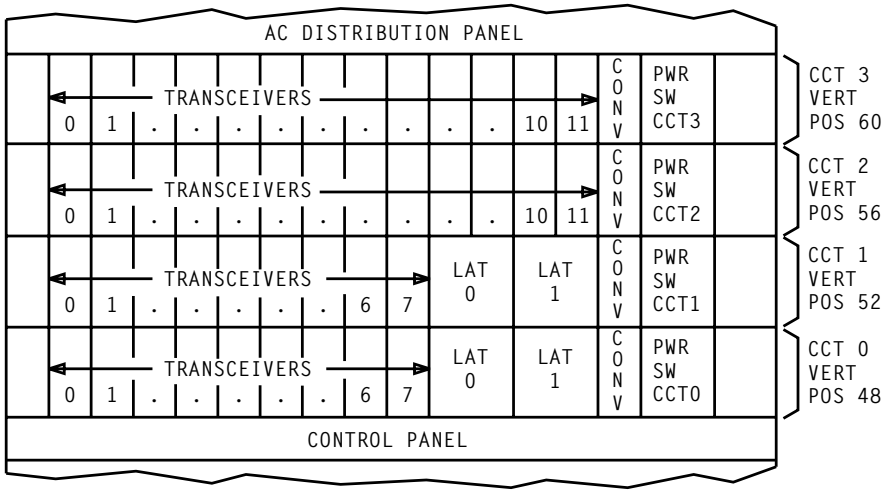


FIG. 2 — Partial MISC A Frame

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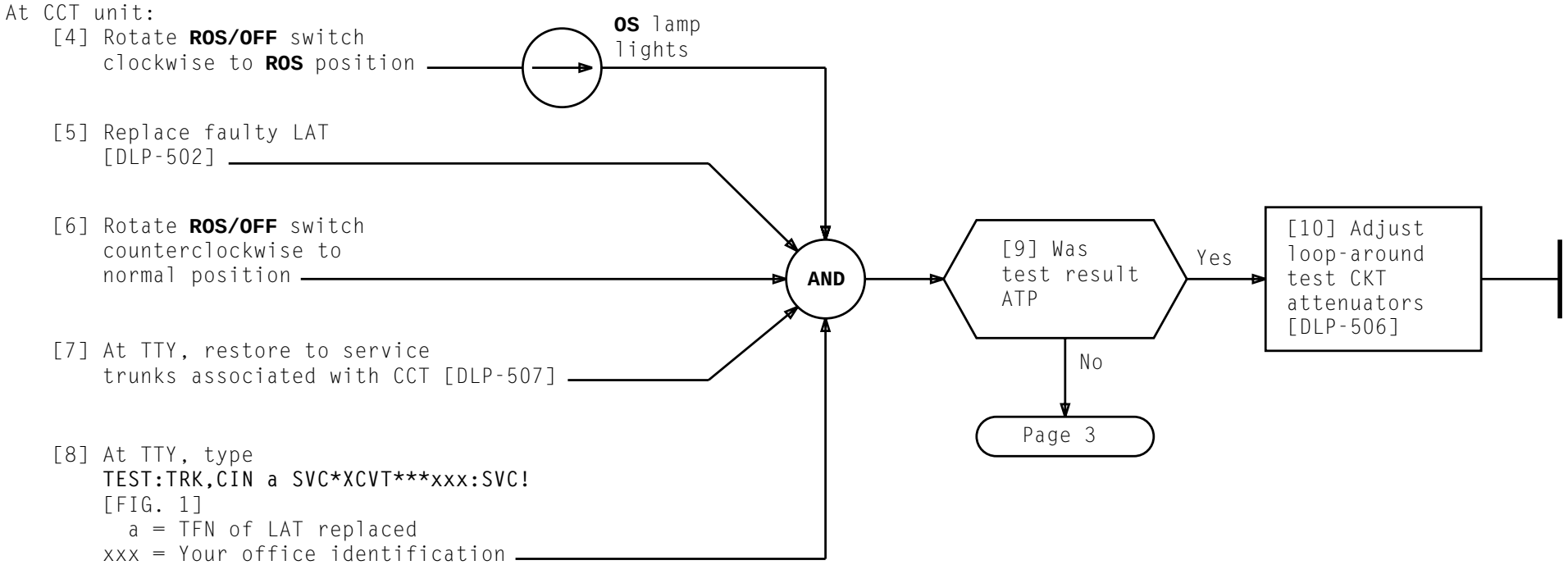
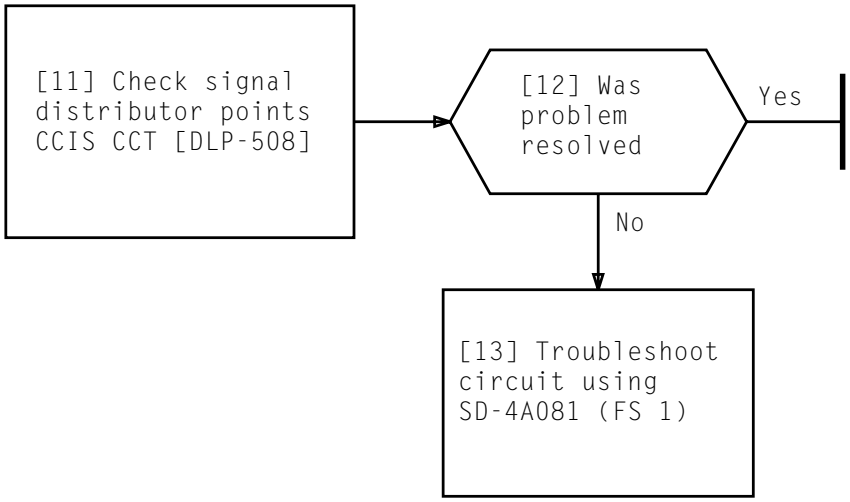
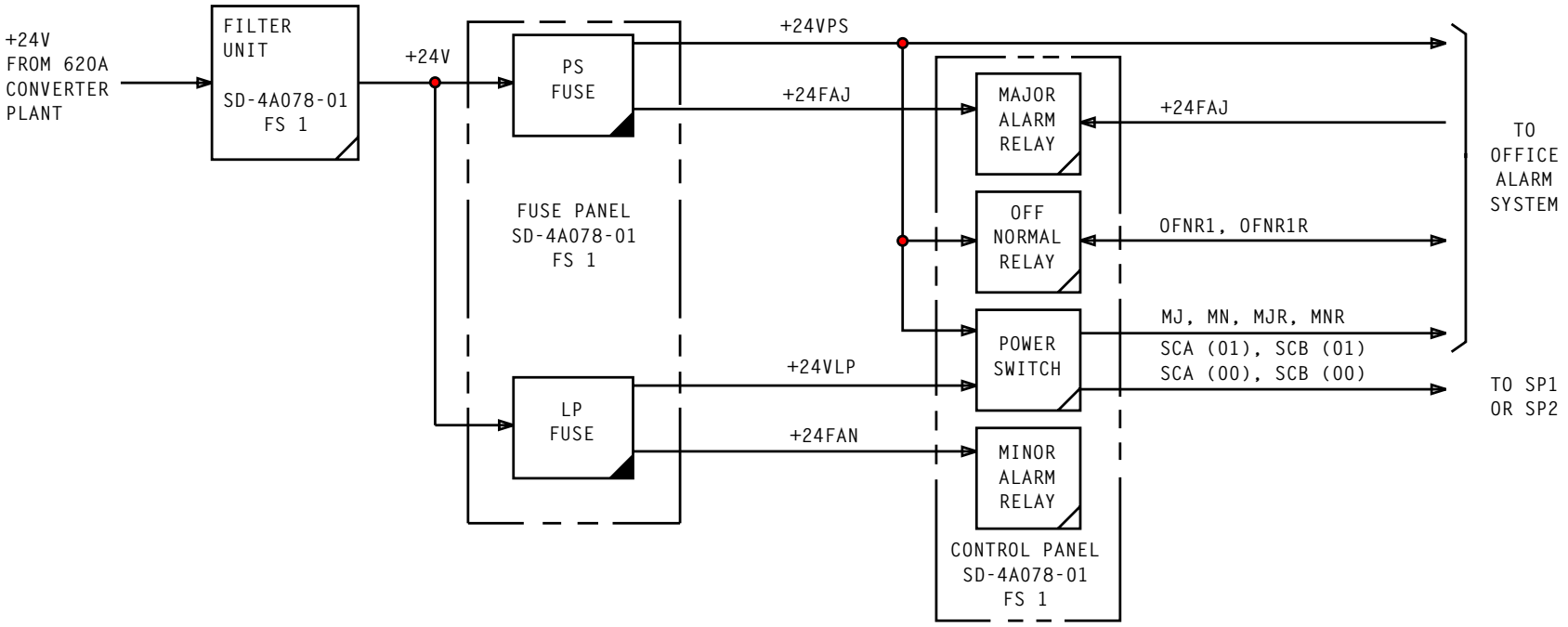
CLEAR LOOP-AROUND TEST FAILURE CONTINUITY CHECK TRANSCEIVER



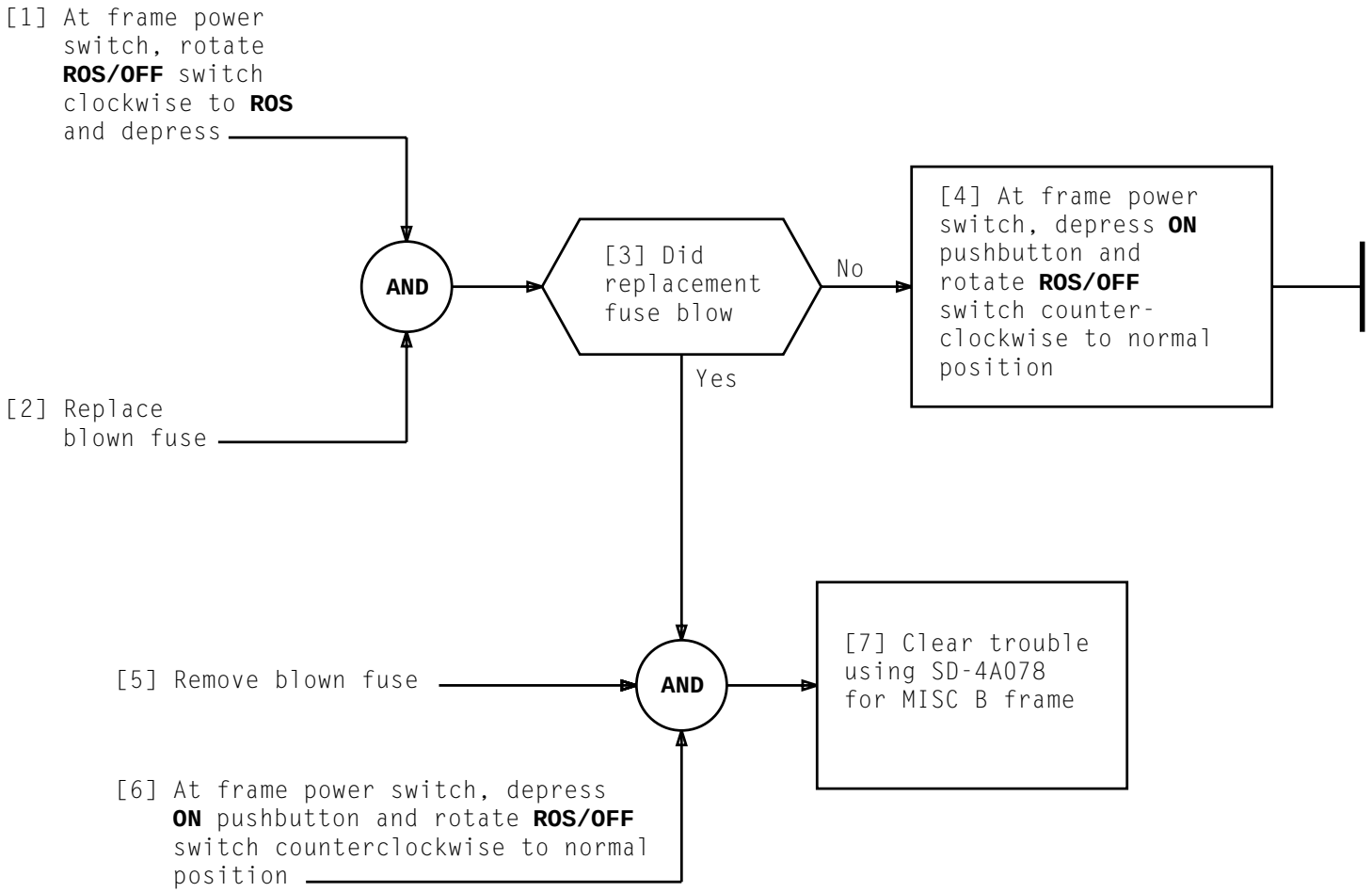
CLEAR LOOP-AROUND TEST FAILURE, CONTINUITY CHECK TRANSCEIVER



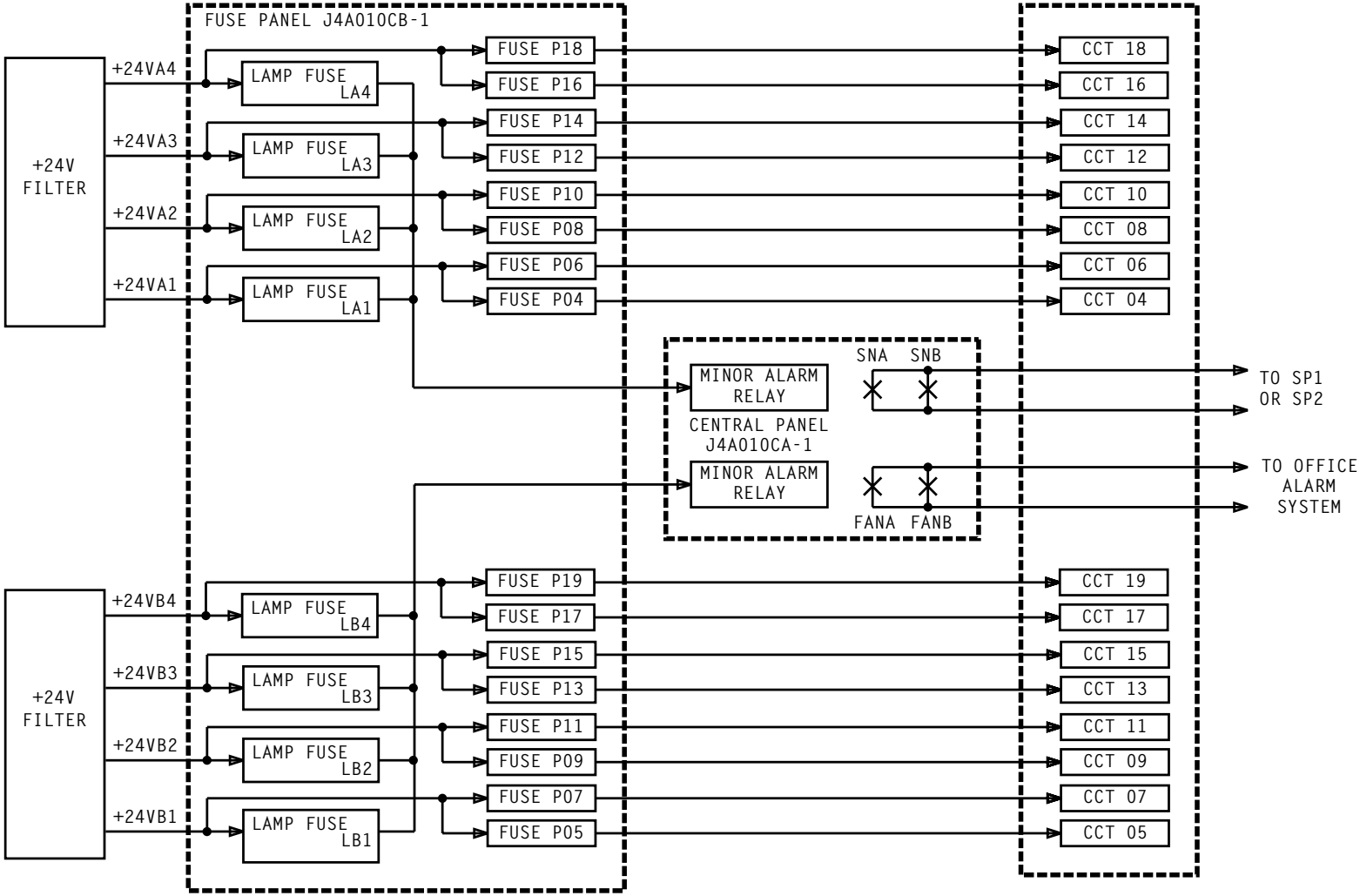
CLEAR LOOP-AROUND TEST FAILURE, CONTINUITY CHECK TRANSCEIVER



FUSE PANEL J4A010BB CIRCUIT



CLEAR BLOWN FUSE - FUSE PANEL J4A010BB



FUSE PANEL J4A010CB-1 CIRCUIT

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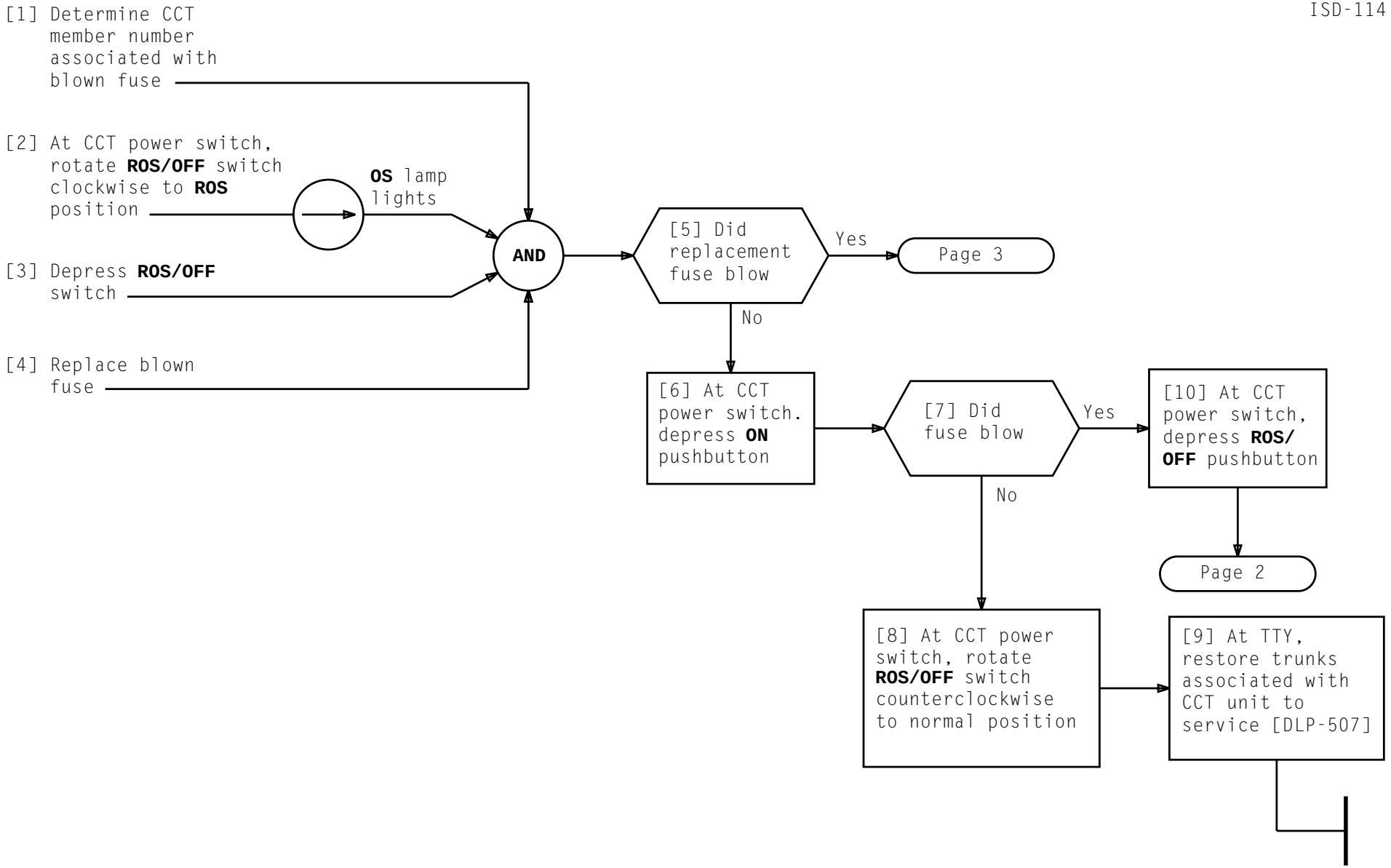
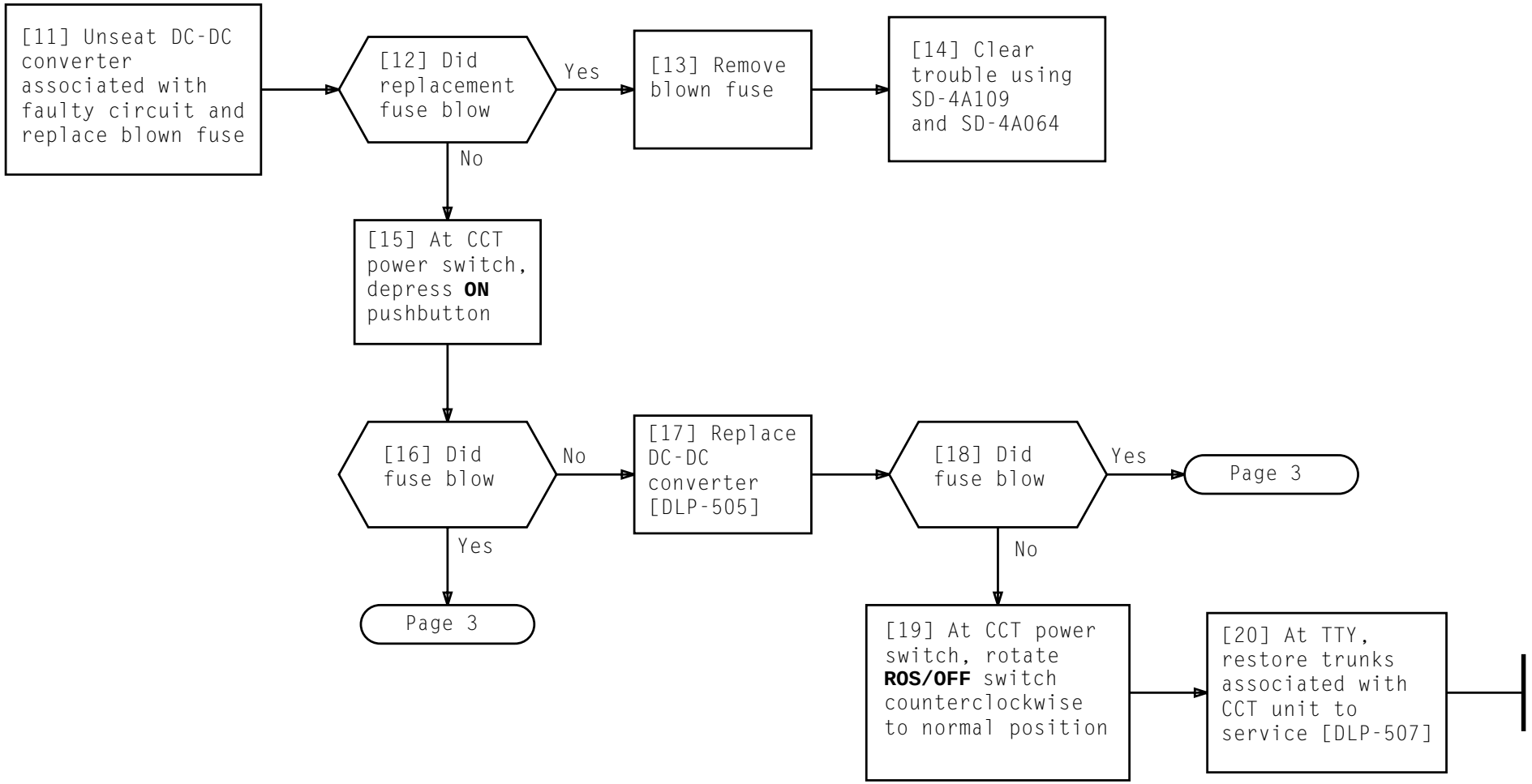


CLEAR BLOWN FUSE, FUSE PANEL J4A010CB-1



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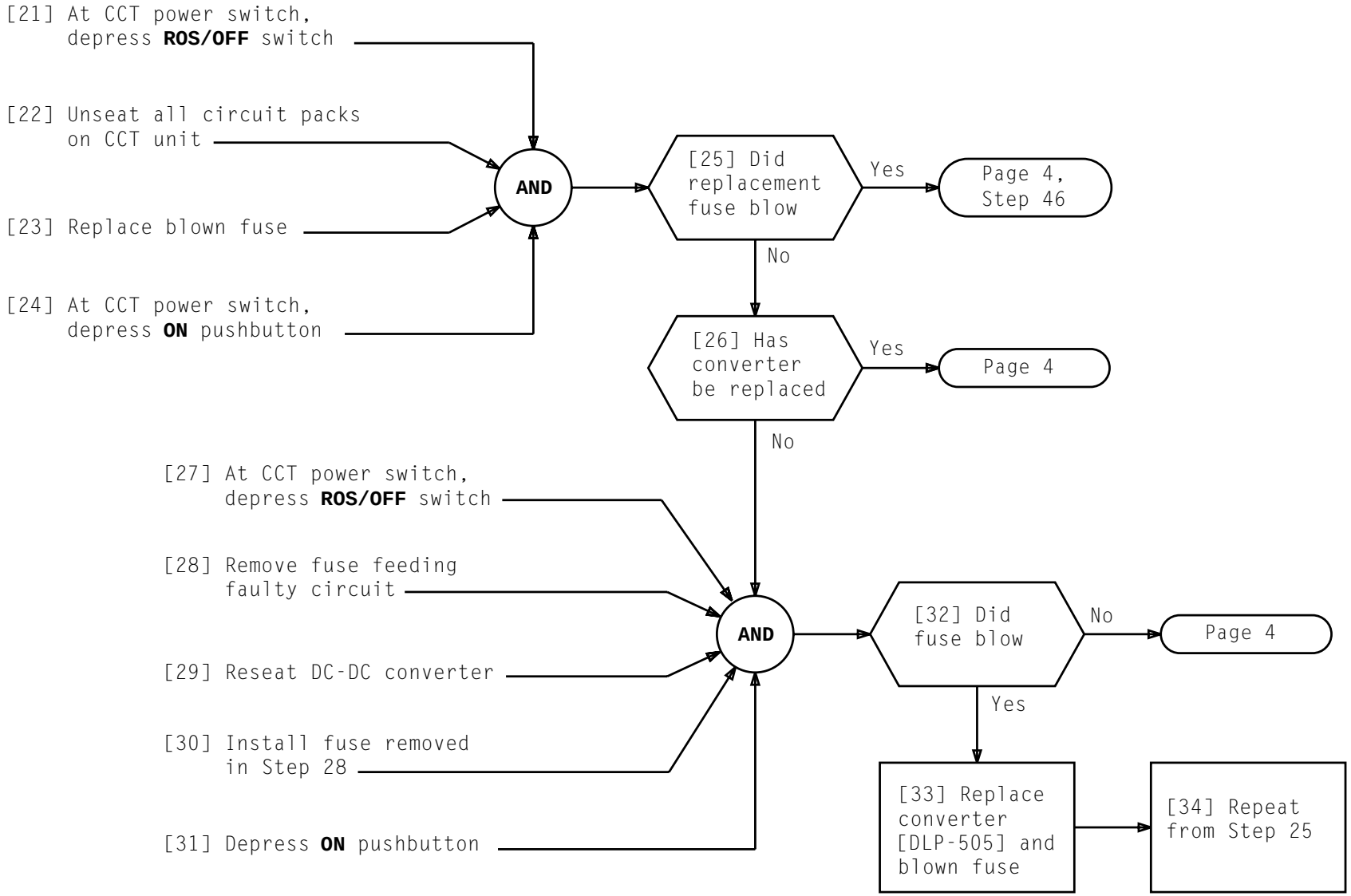
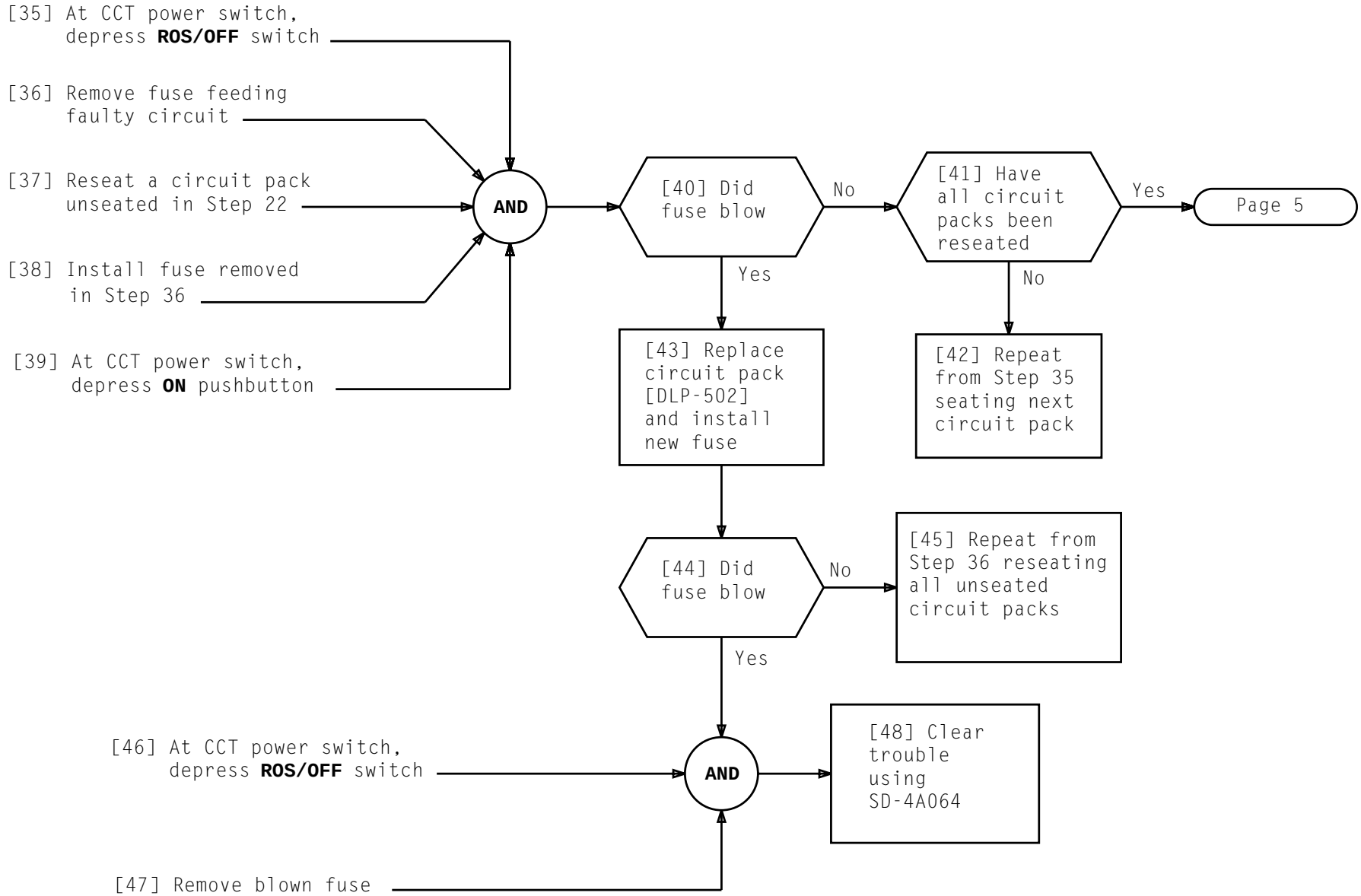
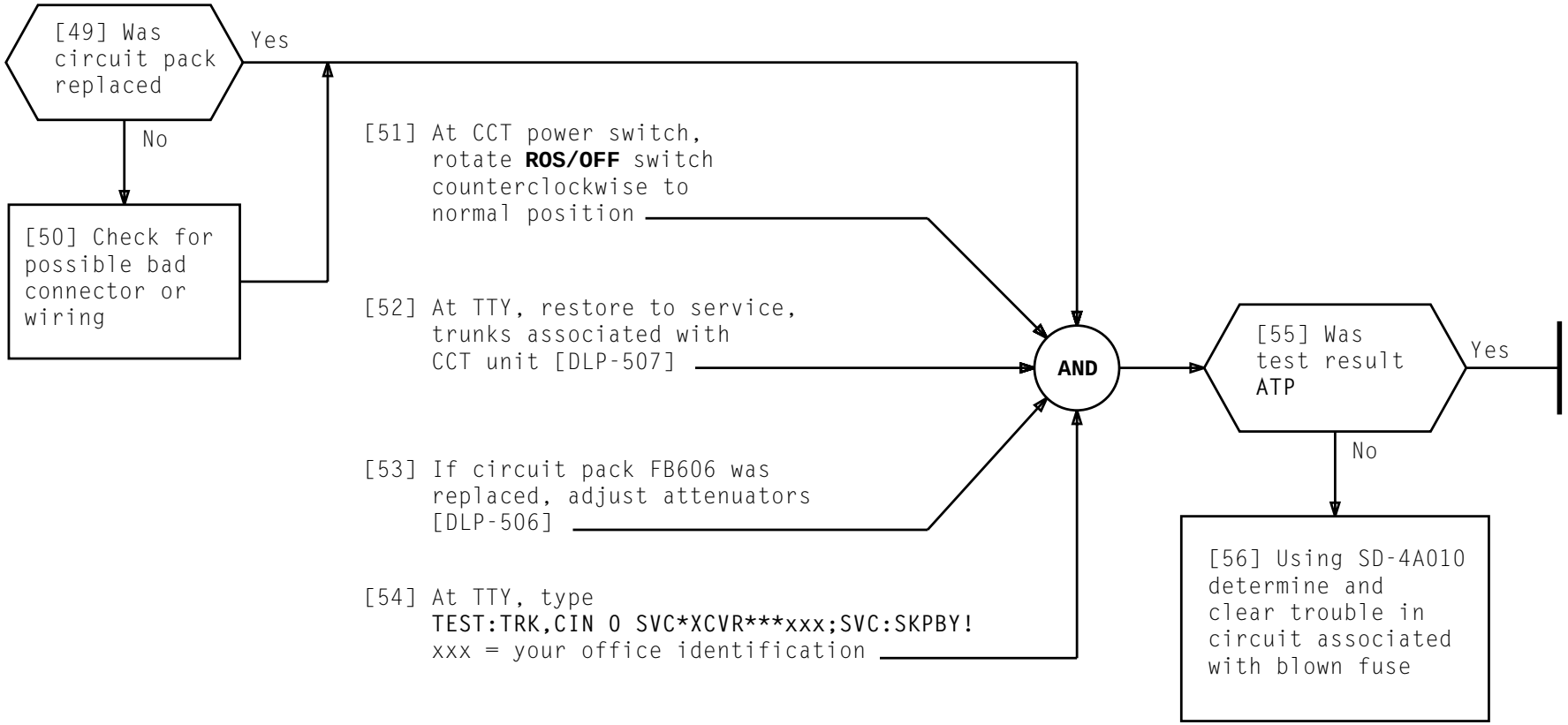


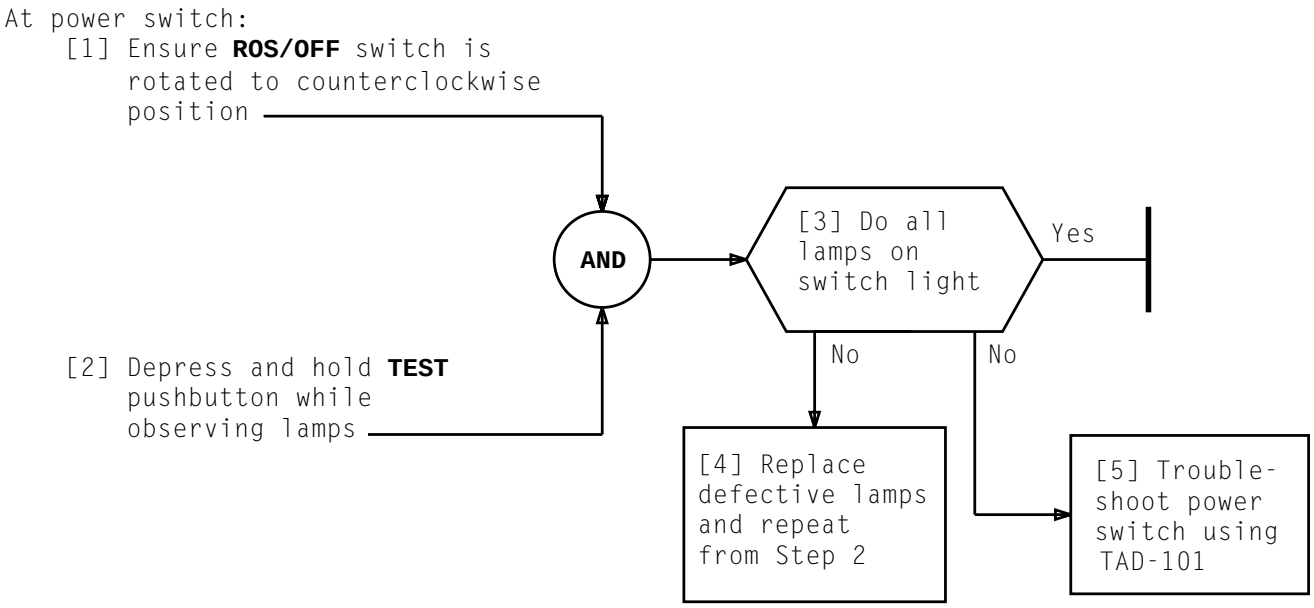
CLEAR BLOWN FUSE, FUSE PANEL J4A010CB-1



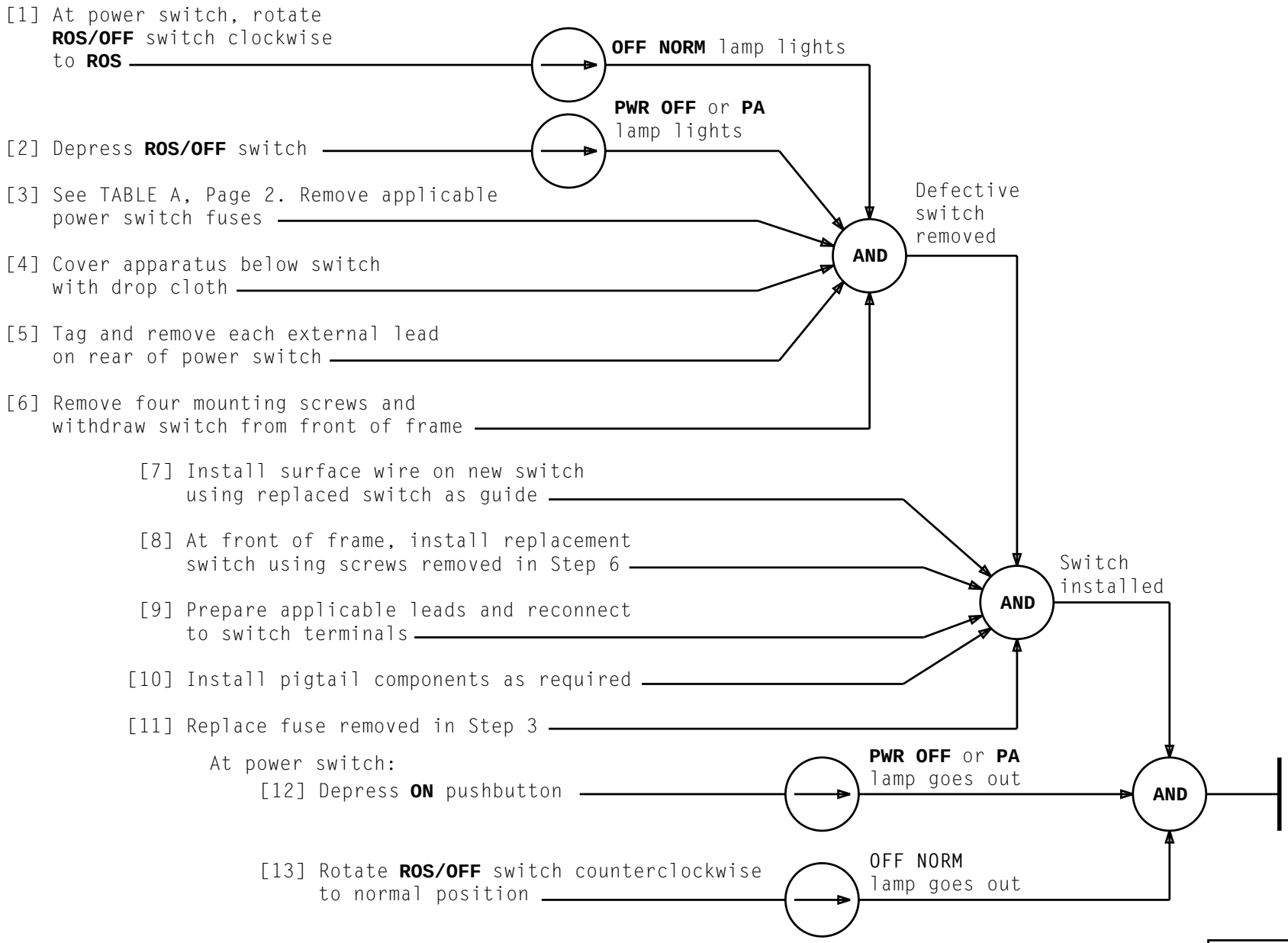
CLEAR BLOWN FUSE, FUSE PANEL J4A010CB-1



CLEAR BLOWN FUSE, FUSE PANEL J4A010CB-1



TEST POWER SWITCH LAMPS



REPLACE POWER SWITCH

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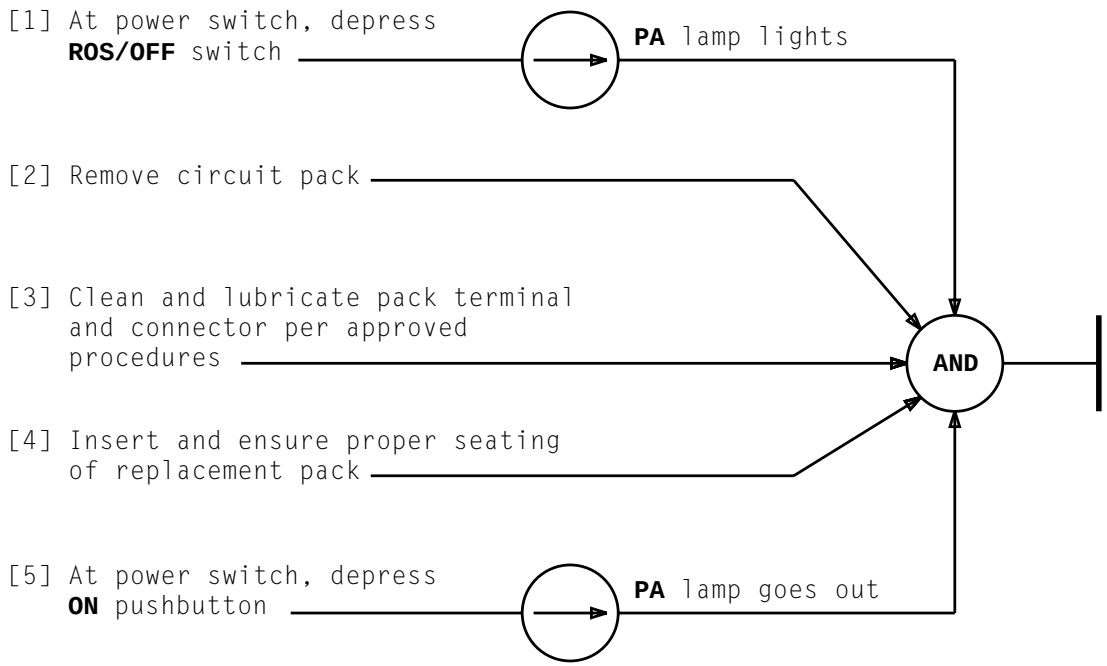
TABLE A					
FRAME	**UNIT LOCATION**	**UNIT DESIGNATION**	**SWITCH LOCATION**	**FUSE BLOCK LOCATION**	**FUSE DESIGNATION**
Miscellaneous A	060	CCIS Continuity Check Transceiver -3	062-34	007-36	MA
	056	CCIS Continuity Check Transceiver -2	058-34	007-36	MC
	052	CCIS Continuity Check Transceiver -3	054-34	007-36	MB
	048	CCIS Continuity Check Transceiver -2	050-34	007-36	MD
	044	Control Panel	046-44	007-36	LP PS
Miscellaneous B	044	Control Panel	046-44	007-36	LP PS

REPLACE POWER SWITCH



REPLACE CIRCUIT PACK

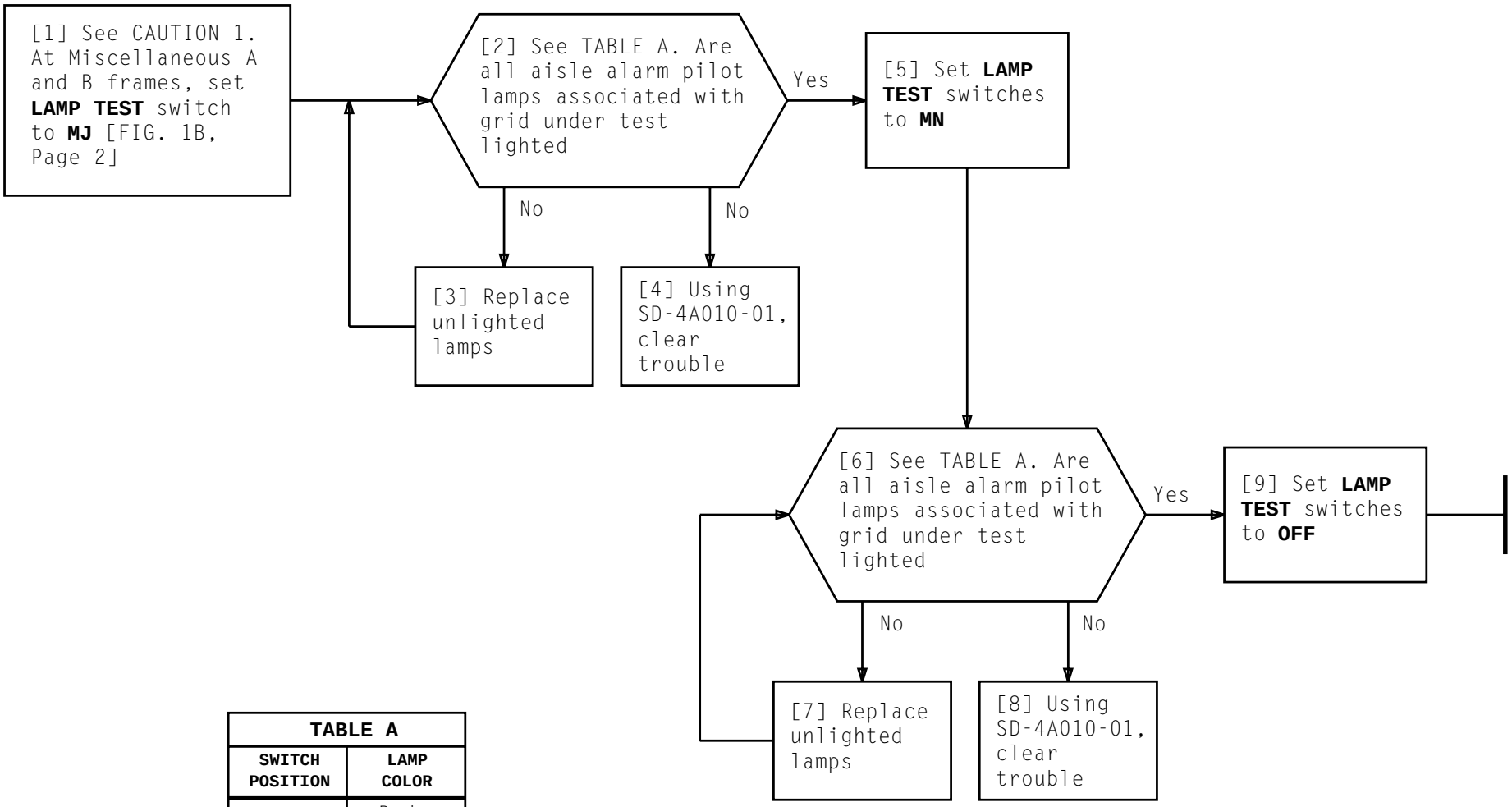


TABLE A	
SWITCH POSITION	**LAMP COLOR**
MJ	Red
MN	Amber

CAUTION 1
Setting lamp test switch to **MJ** *or* **MN** *inhibits associated audible alarm*

TEST AISLE PILOT LAMPS

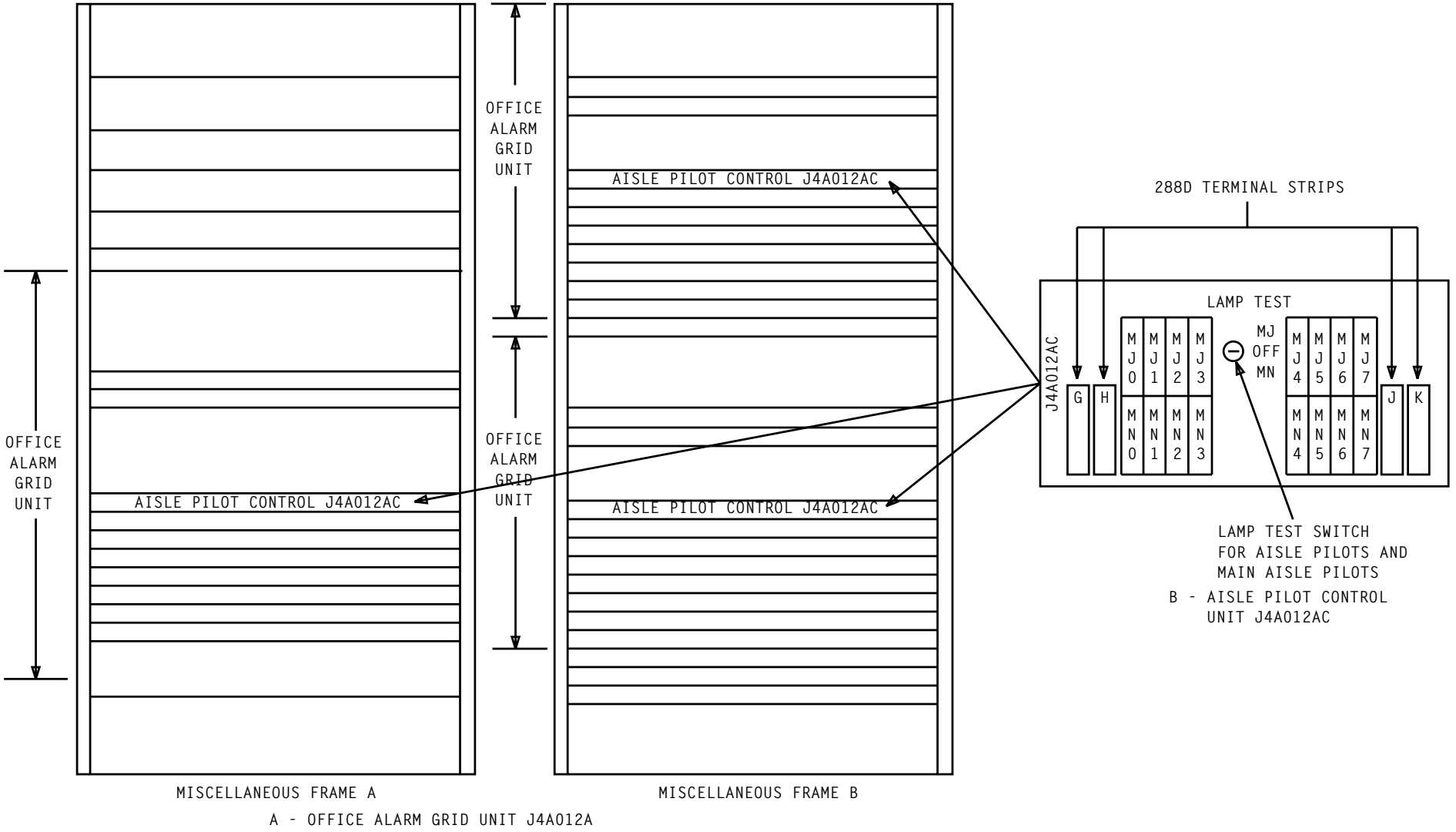
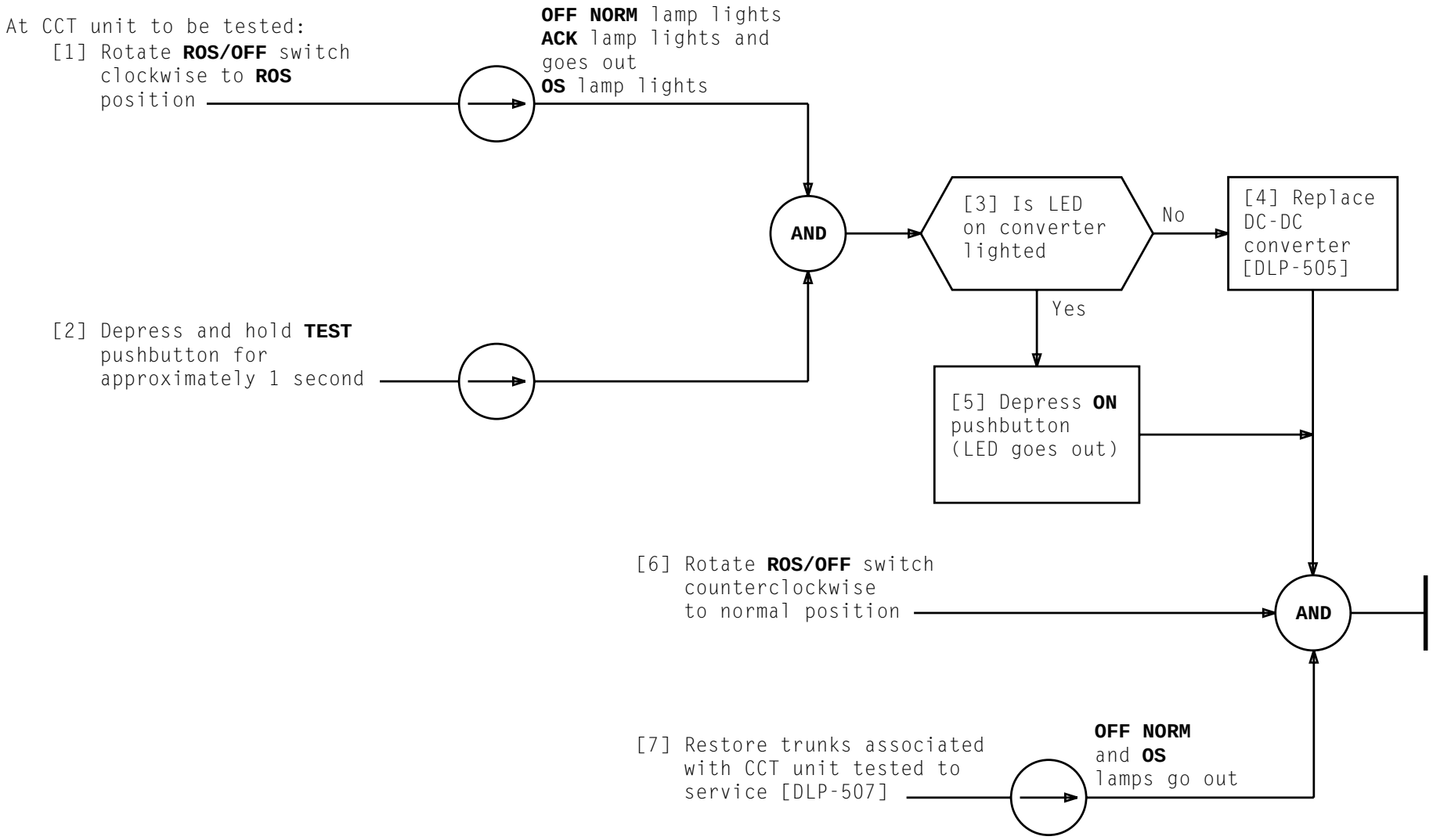


FIG. 1 - Miscellaneous A and B Frames

TEST AISLE PILOT LAMPS



TEST POWER ALARM CIRCUIT CONTINUITY CHECK TRANSCEIVER

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234-151-043	DLP
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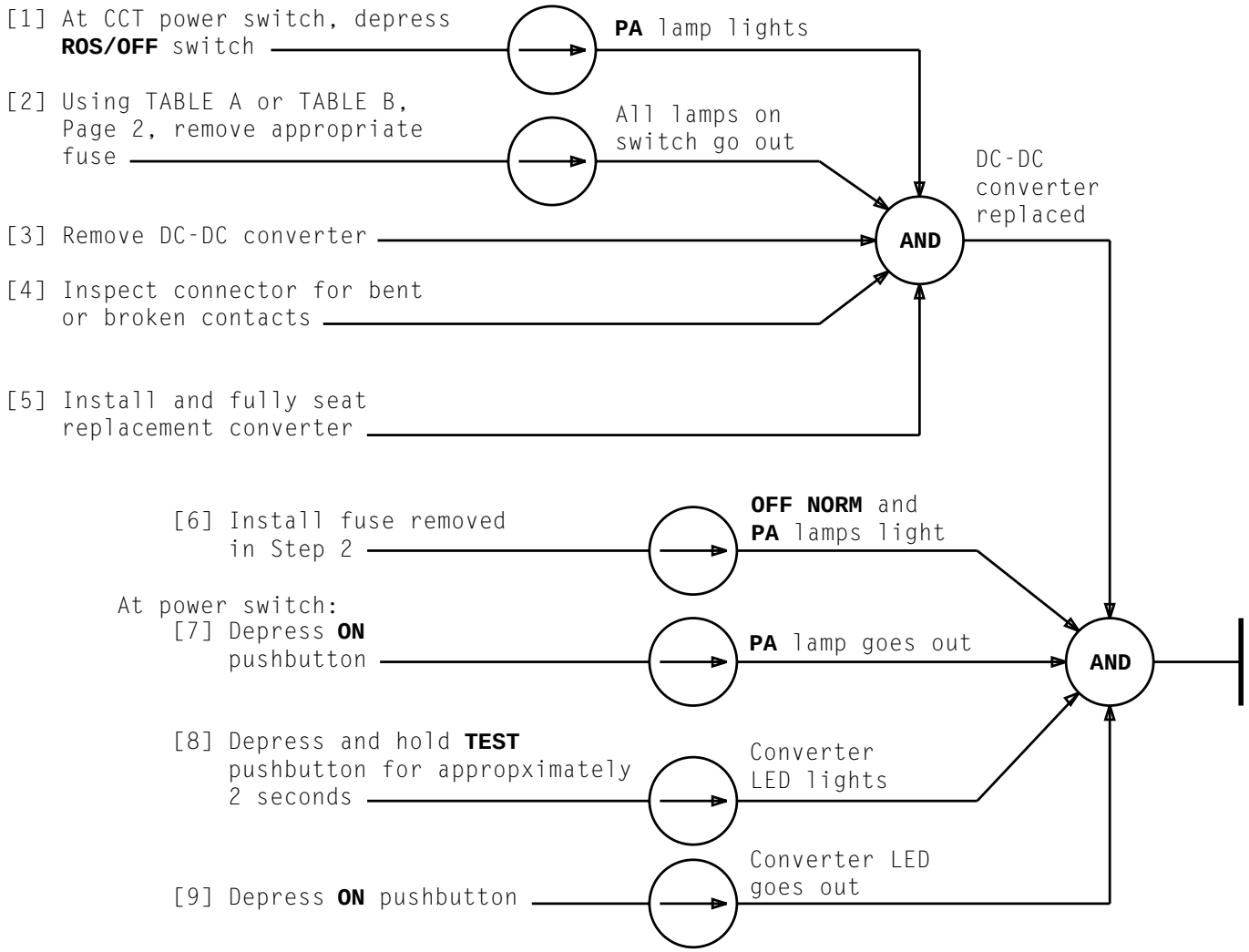


TABLE A — MISC FRAME A			
CCT		FUSE	
MEMN	VERT POS	DESIG	POS
CCT0	48	**MD**	07-36
CCT1	52	**MB**	07-36
CCT2	56	**MC**	07-36
CCT3	60	**MA**	07-36

REPLACE DC-DC CONVERTER

TABLE B – MISC FRAME C			
CCT		FUSE	
MEMN	VERT POS	DESIG	POS
CCT4	16	P4	11-17
CCT5	20	P5	11-30
CCT6	24	P6	11-17
CCT7	28	P7	11-30
CCT8	32	P8	11-17
CCT9	36	P9	11-30
CCT10	40	P10	11-17
CCT11	44	P11	11-30
CCT12	50	P12	11-23
CCT13	54	P13	11-36
CCT14	58	P14	11-23
CCT15	62	P15	11-36
CCT16	66	P16	11-23
CCT17	70	P17	11-36
CCT18	74	P18	11-23
CCT19	78	P19	11-36

SUMMARY

To adjust loop-around test CKT (LAT) attenuators, set TRK-STAT of LAT to CAD.DSA. Set AMP/ATT SD points for 0 dB. Set OSC loop SD point, connect transmission measuring set (TMS) to test point PO1 and request TOC to apply 1mW tone from 51A to LAT. Adjust ATTEN 1 for reading of −3.5 dBm on TMS.

Request tone be removed, and remove TMS from PO1. Set OUTGATE SD point and request TOC to apply 1mW tone and make level measurement of return. Adjust ATTEN 2 for reading of −7 dBm on 51A TMS. Request TOC to release connection to LAT and restore LAT to active status.

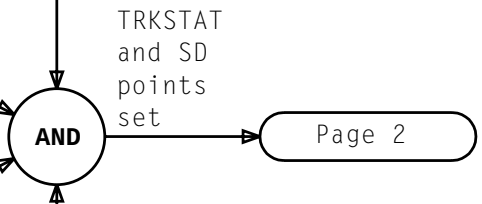
At TTY:

[1] Type in
SET:TRKSTAT CAD.DSA,CIN ab **SVC*XCVT*****xxx!**
a = CCT member number
b = LAT number on CCT unit
xxx = your office identification

[2] Type in
ORD:SD;OPR:CIN [as in Step 1**],BMP(3,4,5,7,9)!**

[3] Type in
ORD:SD;READ:CIN [as in Step 1**],BMP,ALL!**

[4] Verify SD points are (0011101010)



ADJUST LOOP-AROUND TEST CIRCUIT ATTENUATORS IN CONTINUITY CHECK TRANSCEIVER USING 51A TEST SET

Request TOC to:

[5] **SET:CONN** a;**TP** bb:**CIN** [as in Step 1, Page 1],**MODE 4!**

a = TAT number

bb = Test position number

[6] Depress **1004 HZ** key

See NOTE 1. At MISC A Frame CCT unit:

[7] Connect transmission measuring set (TMS) to PO1 of LAT to be adjusted

[8] Request TOC to depress and hold **UP 10** key while ATTEN 1 is being adjusted

AND

Tone applied

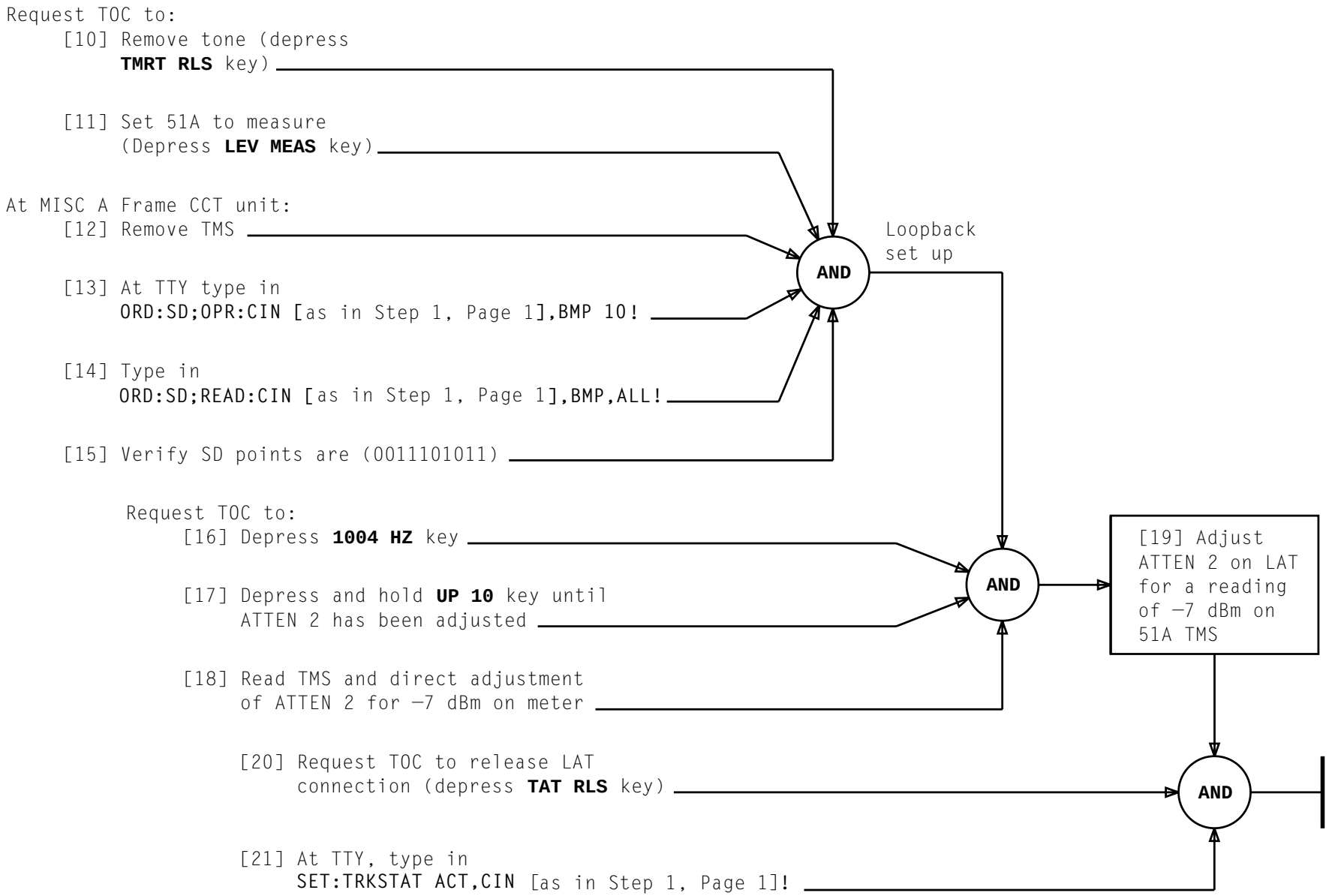
AND

[9] Adjust ATTEN 1 on LAT for a reading of −3.5 dBm on TMS

Page 3

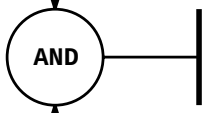
NOTE 1
At CCT loop-around test unit, raise identifier strip. PO1 is a two lead connector on component side of circuit pack FB606

ADJUST LOOP-AROUND TEST CIRCUIT ATTENUATORS IN CONTINUITY CHECK TRANSCEIVER USING 51A TEST SET



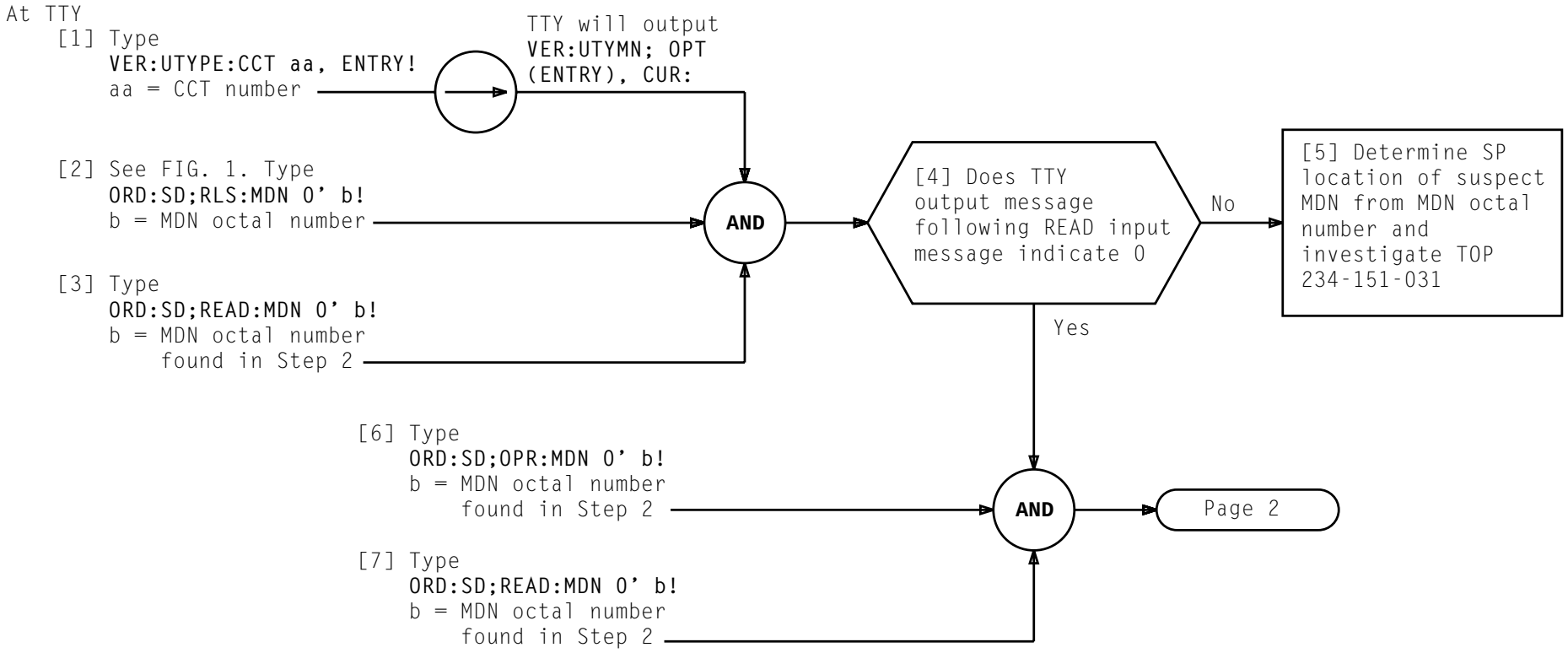
ADJUST LOOP-AROUND TEST CIRCUIT ATTENUATORS IN CONTINUITY CHECK TRANSCEIVER USING 51A TEST SET

[1] Type in
SET:TRKSTAT ACT,CIN abb SVC*XCVR***xxx:NUM c!
a = CCT member number
bb = 00 representing 1st transceiver on CCT unit
c = number of transceiver equipped on CCT unit
xxx = your office identification



[2] If CCT member number is CCT0 or CCT1
type in
SET:TRKSTAT ACT,CIN ab SVC*XCVT***xxx:NUM 2!
a = CCT member number
b = 0 representing 1st loop-around test CKT on the CCT unit
c = number of transceiver equipped on CCT unit
xxx = your office identification

RESTORE TRUNKS TO SERVICE, CONTINUITY CHECK TRANSCEIVER

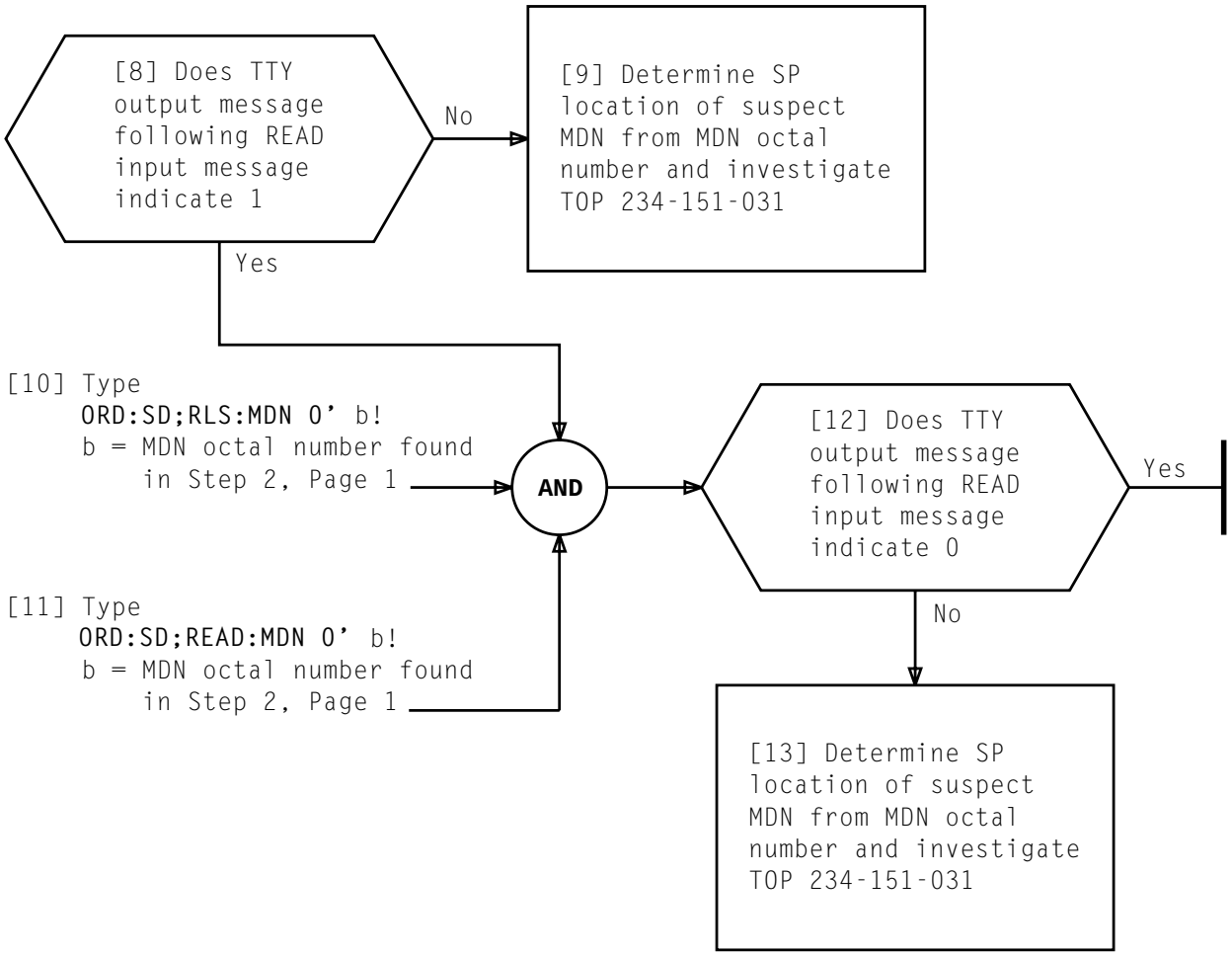



```
VER:UTMN; OPT (ENTRY),CUR:      FLN 13012.03,      UTYN CCT,

MEMN    5,       ME OPER,
ENTRY  ADDRESS   07643410,     ENTRY SIZE  5,

CUR
WORD 0     60060070    04030003    00460012    01454130
           00064130
```

OCTAL MDN =
BITS 0-16
IE. 060012

FIG. 1

CHECK SIGNAL DISTRIBUTOR POINT CONTINUITY CHECK TRANSCEIVER



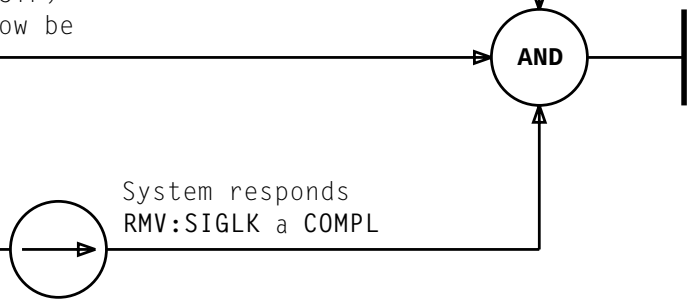
CHECK SIGNAL DISTRIBUTOR POINT CONTINUITY CHECK TRANSCEIVER

[1] See NOTE 1. Determine signal link number to be removed from service

[2] Notify signal transfer point (STP) office that signal link will now be removed from service

[3] At TTY, enter
RMV:SIGLK a!
(a = signal link number)

System responds
RMV:SIGLK a **COMPL**



NOTE 1
Signal link number is a 4-digit number. First two digits are terminal group number; second two digits are terminal unit number within terminal group

REMOVE CCIS SIGNAL LINK FROM SERVICE

NOTE: For power switch and fuse locations, first digit indicates in which bay or frame the unit is located.
0 = Bay 0, Basic Frame
1 = Bay 1, Basic Frame
2 = 1st Supplementary Frame
3 = 2nd Supplementary Frame

TABLE A	
UNIT	PWR SWITCH LOCATION
TERM 00	054-27
TERM 01	054-31
TERM 02	054-35
TERM 03	154-27
TERM 04	154-31
TERM 05	154-35
TERM 06	254-27
TERM 07	254-31
TERM 08	254-35
TERM 09	254-39
TERM 10	254-43
TERM 11	354-27
TERM 12	354-31
TERM 13	354-35
TERM 14	354-39
TERM 15	354-43

1. Identify power switch associated with amplifier and pad unit [TABLE A]

End of procedure

IDENTIFY POWER SWITCH LOCATION

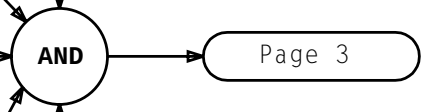
[1] If D4 channel units are associated with terminal to be adjusted, ensure channel unit pads have been adjusted for 0 drop across the 4ESS switch

[2] At TTY, enter
VER:TRKNAME,CIN a **MIS*TERM*** ** b**:OTAN!**
a = traffic number (TFN) of terminal = TGR number times 16 plus terminal number within TGR
b = office identity

[3] Record octal TAN (OTAN) from output (Step 2) for later reference

[4] At terminal associated with AMP/PAD to be adjusted, remove terminal modem interface (TMI) unit

[5] On facility test panel at location 27-37, connect transmission measuring set (TMS) [600 ohm terminated] to **RCV-B** (a) (a = terminal to be adjusted) test jack [FIG. 1, Page 2, for domestic, FIG. 2 for international]



ADJUST AMPLIFIER AND PAD ON AMP/PAD UNIT USING RMS-D2

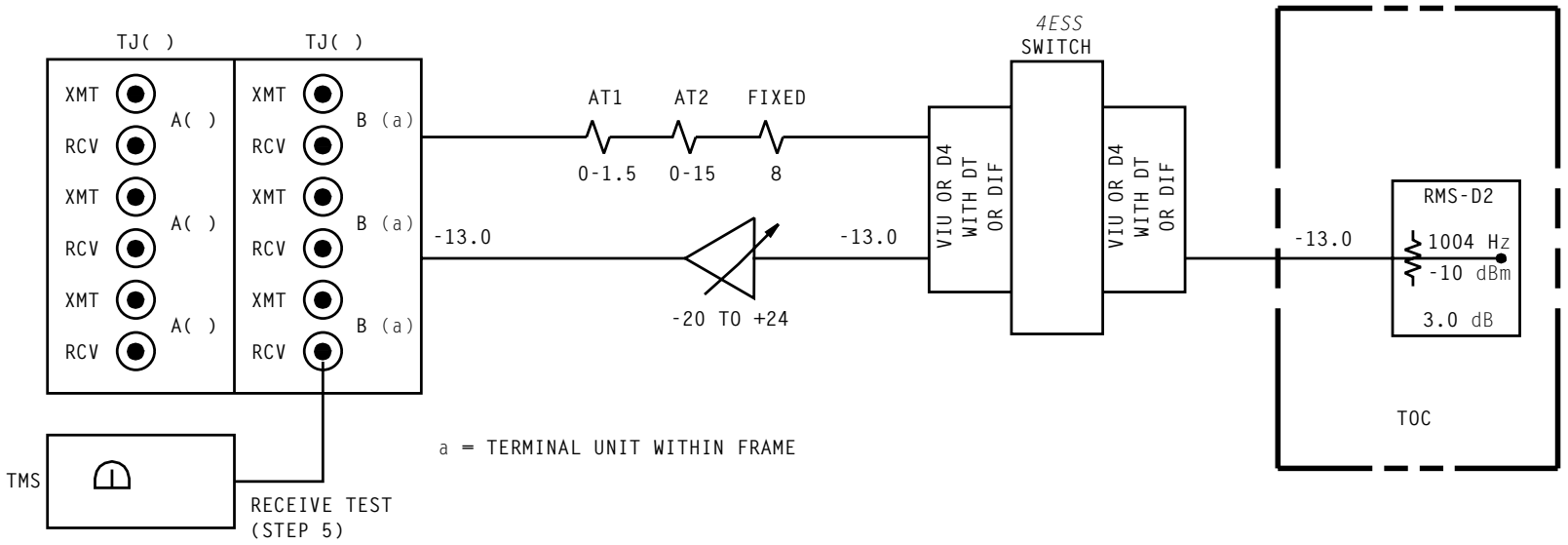


FIG. 1 — TMS and Loopback Connections — Domestic

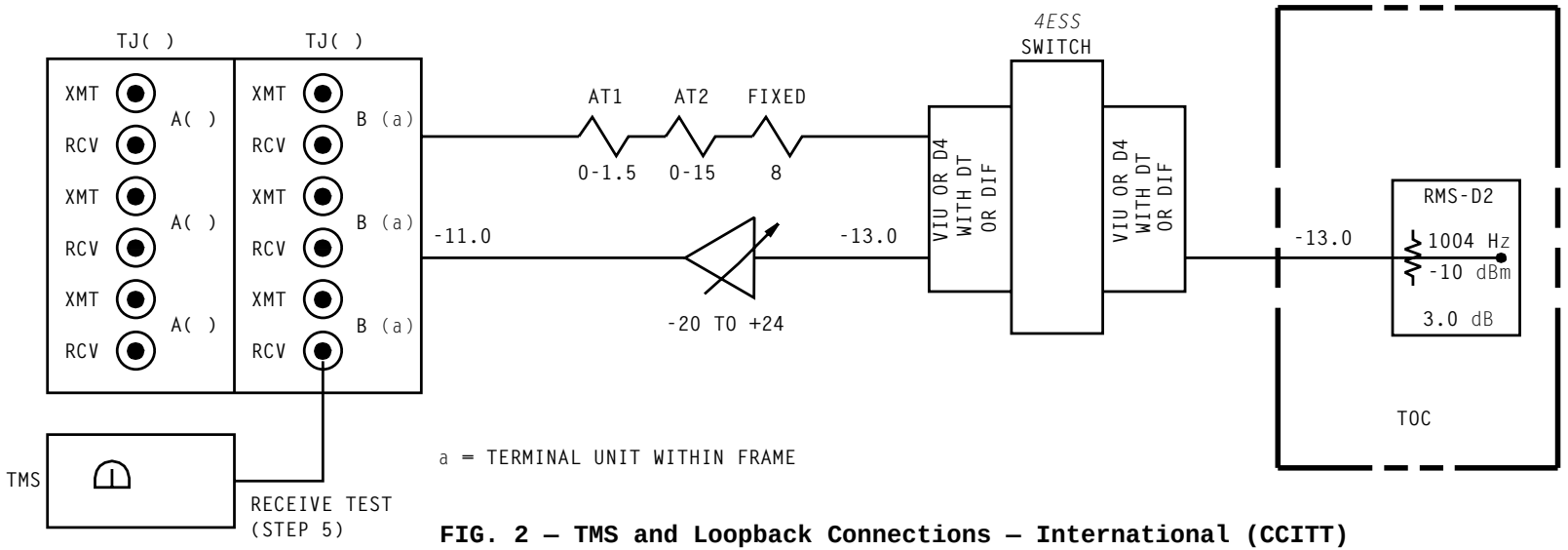


FIG. 2 — TMS and Loopback Connections — International (CCITT)

ADJUST AMPLIFIER AND PAD ON AMP/PAD UNIT USING RMS-D2

Request TOC to [using trunk workstation (TWS)]:

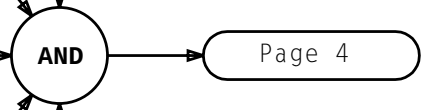
[6] Enter sign on command

[7] Activate circuit via OTAN (enter 113/a [a = OTAN recorded in Step 3, Page 1])

[8] Obtain DYNAMIC TEST CONTROL MENU (enter 705)

[9] Select SETC (enter 710/0)

[10] Send 1004 Hz tone at −10 dBm (enter 721/0/1/-10)



ADJUST AMPLIFIER AND PAD ON AMP/PAD UNIT USING RMS-D2

[11] At terminal power switch, depress **ON** pushbutton

PWR OFF lamp off

[12] Read TMS meter

AND

[13] See FIG. 3. At AMP/PAD unit, adjust amplifier to read:
—13 dBm for domestic [FIG. 1, Page 2]
—11 dBm for international [FIG. 2, Page 2]

[14] Did amplifier adjust to proper reading

Yes → Page 5

No → [15] Determine cause and resolve; repeat from Step 12

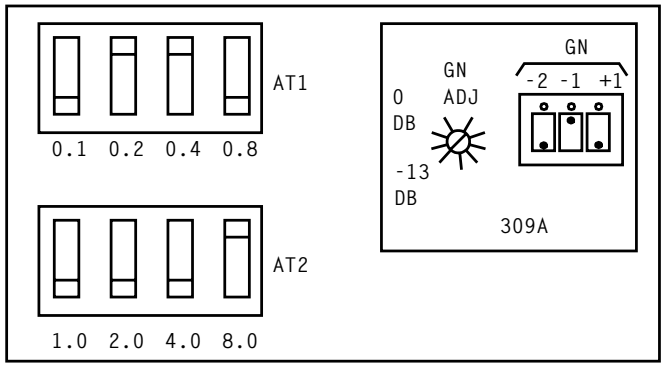
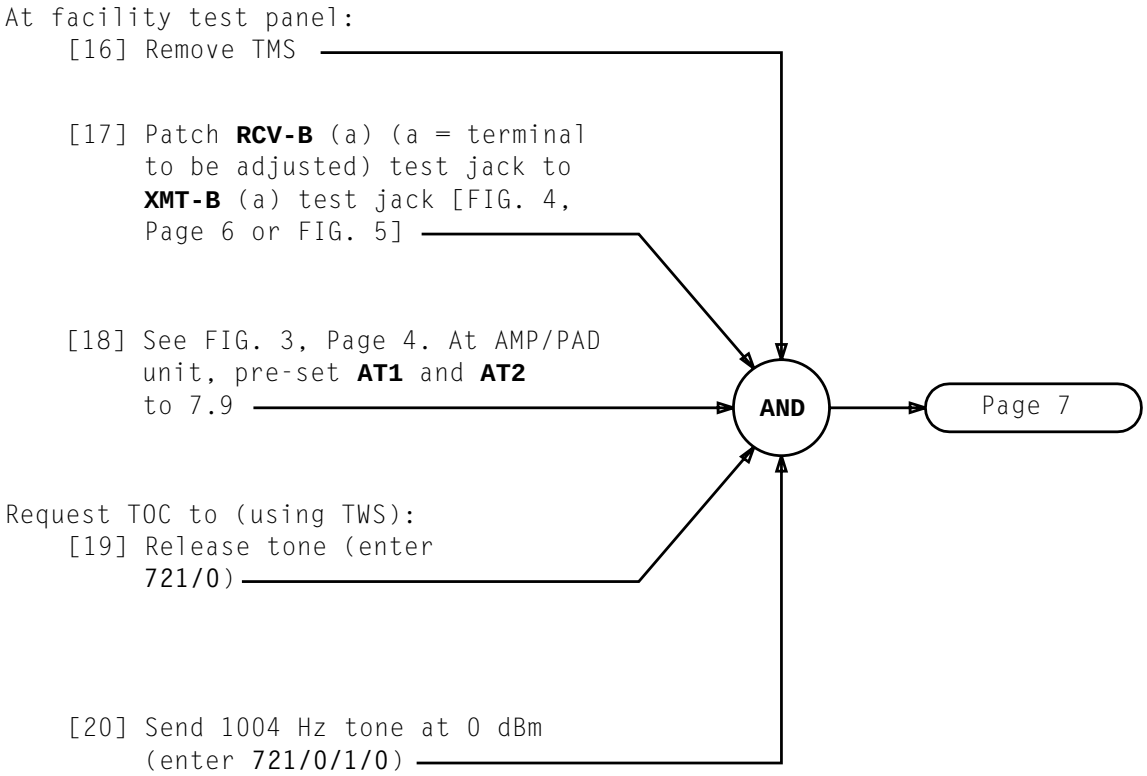


FIG. 3 — CCIS Amplifier and Pad Unit

ADJUST AMPLIFIER AND PAD ON AMP/PAD UNIT USING RMS-D2



ADJUST AMPLIFIER AND PAD ON AMP/PAD UNIT USING RMS-D2

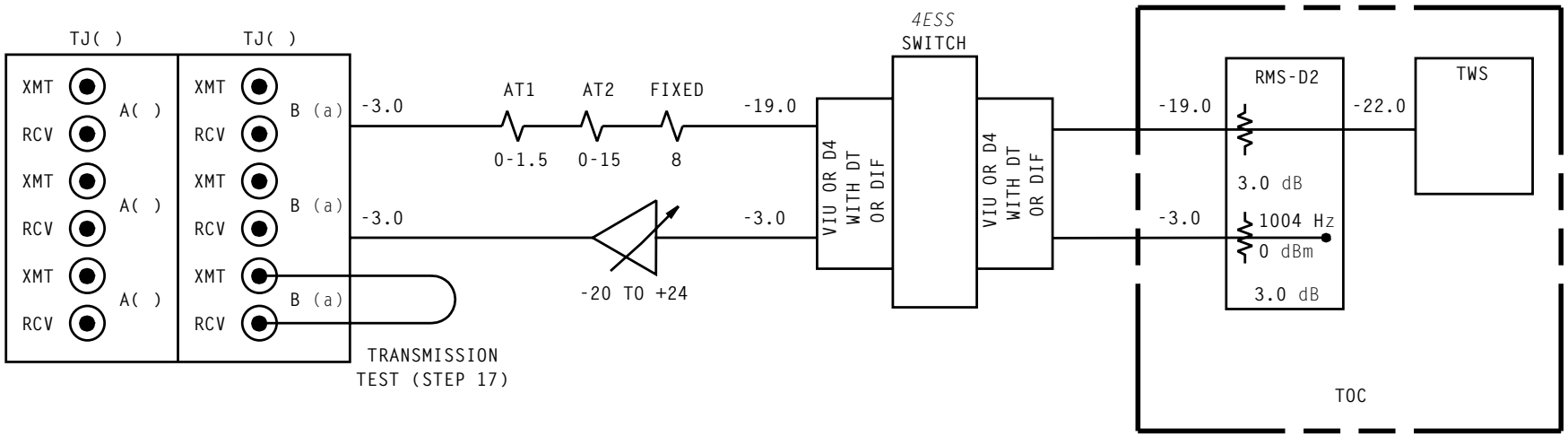


FIG. 4 — Loopback Connections — Domestic

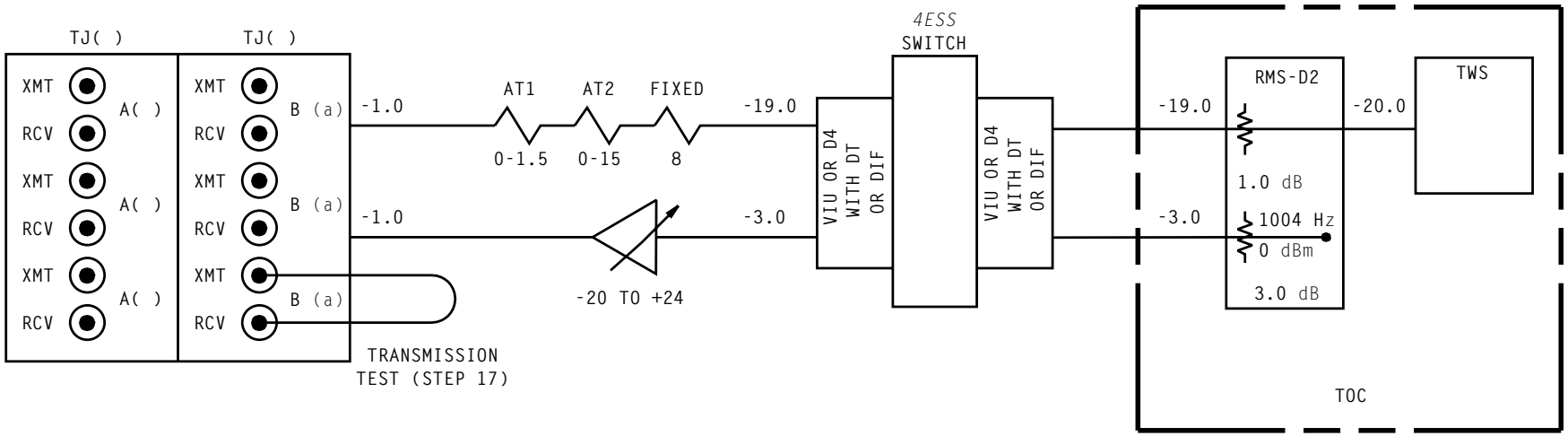
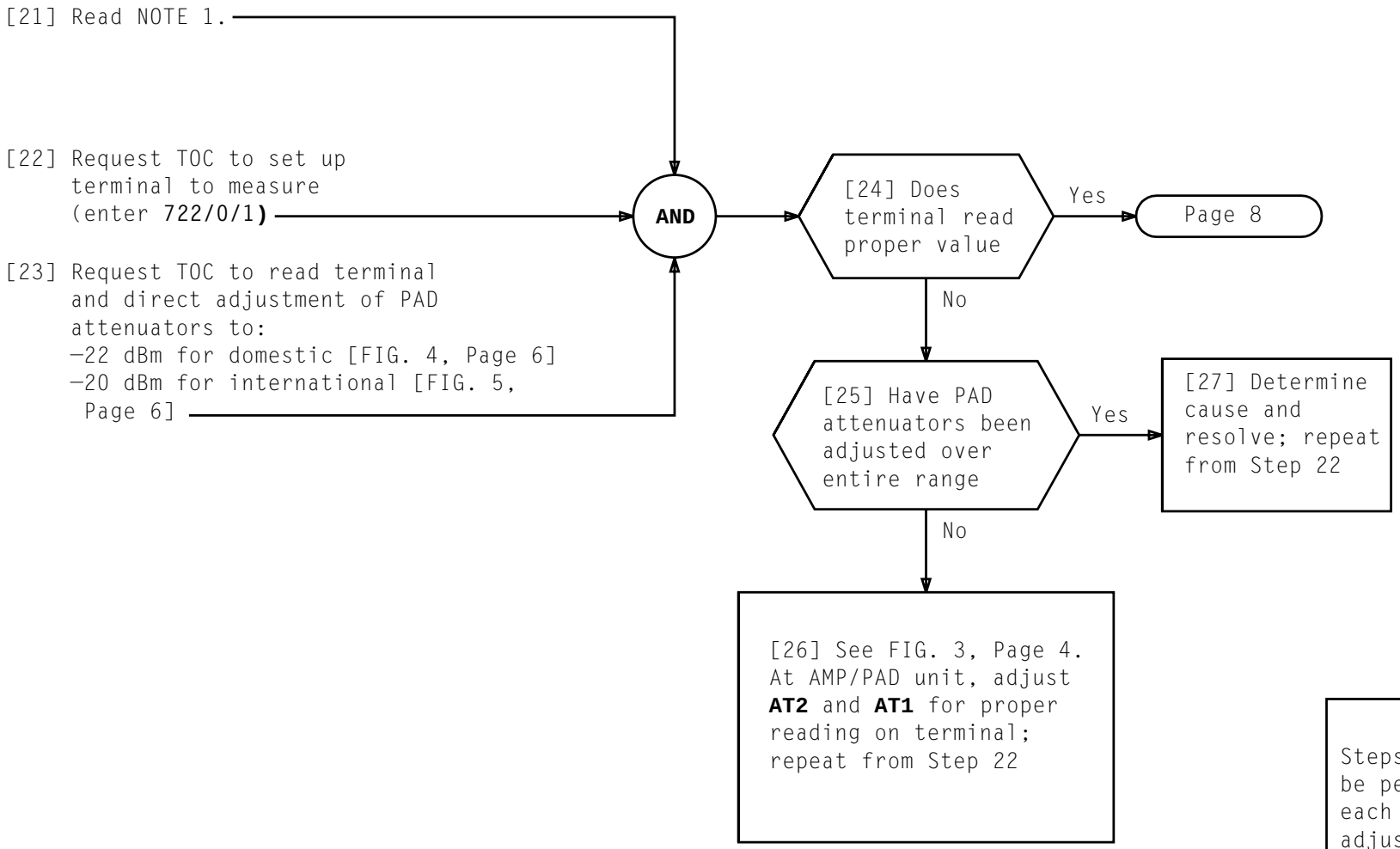


FIG. 5 — Loopback Connections — International (CCITT)

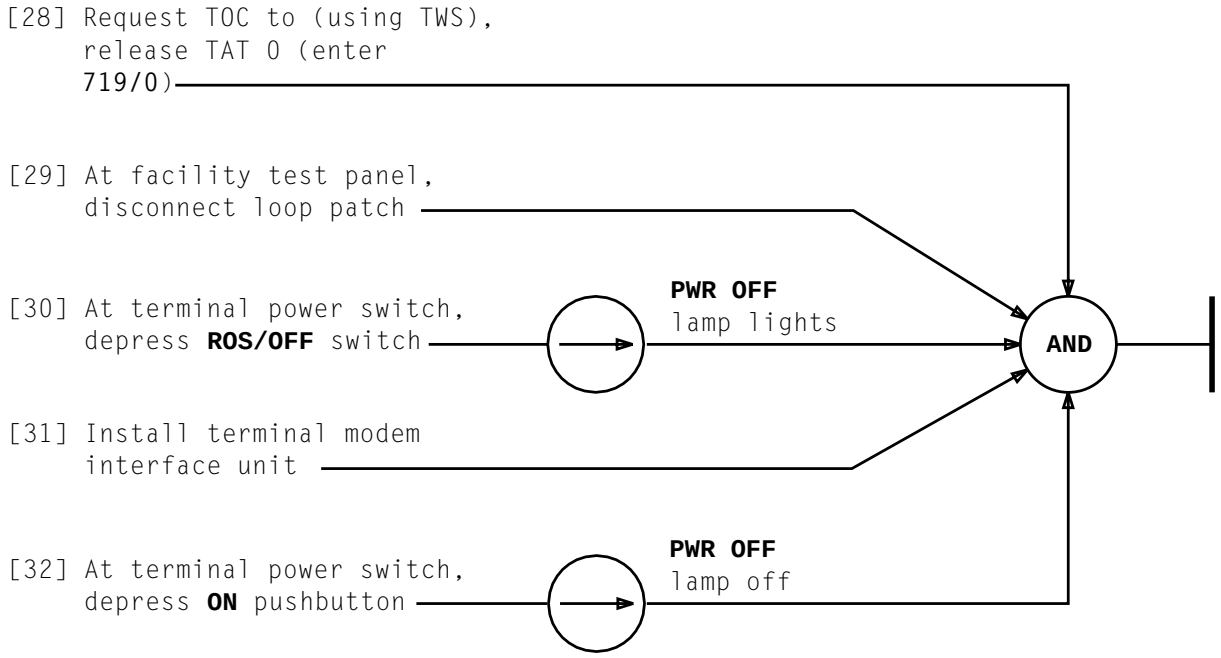
ADJUST AMPLIFIER AND PAD ON AMP/PAD UNIT USING RMS-D2



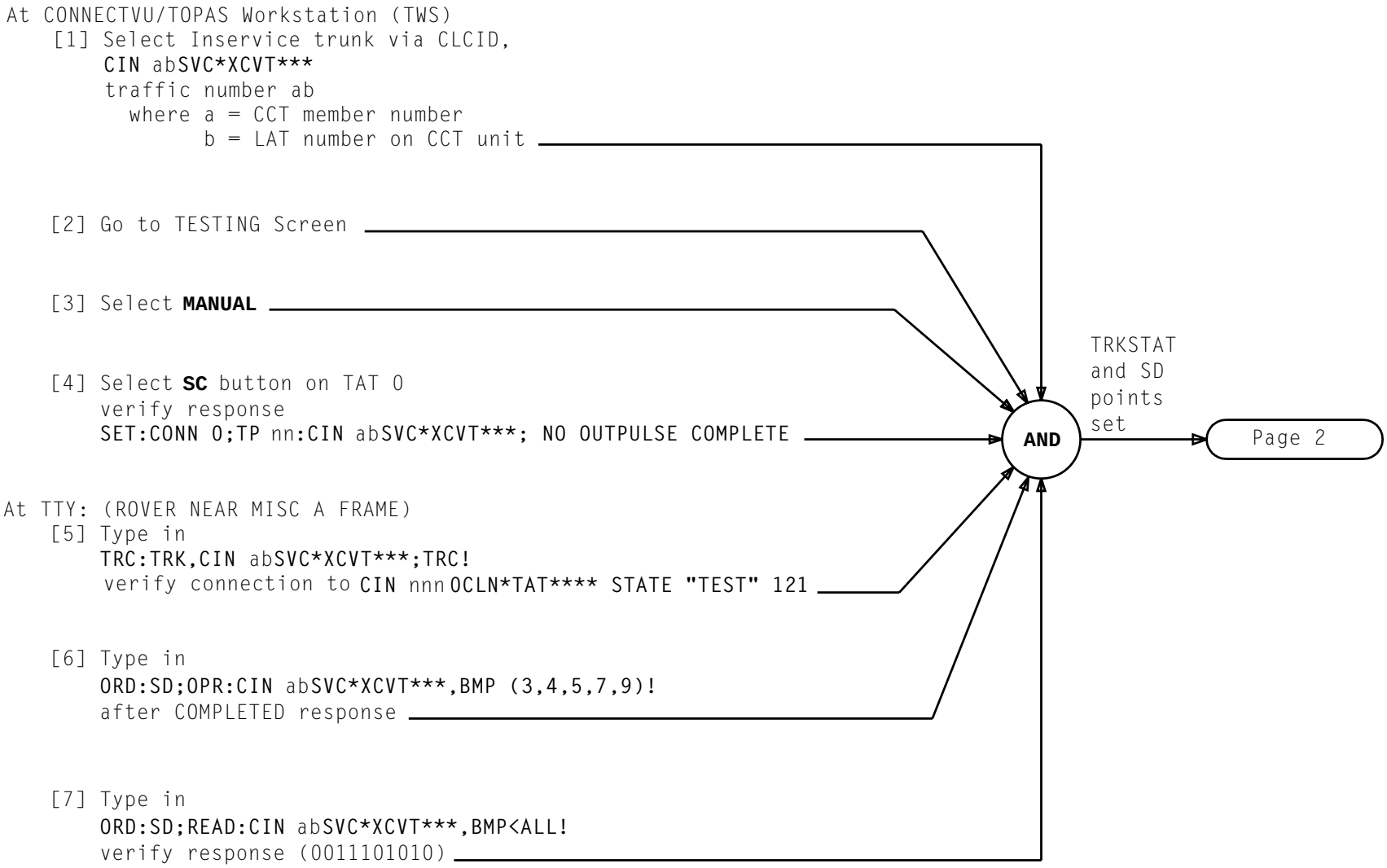
NOTE 1

Steps 22 and 23 must be performed for each PAD attenuator adjustment. TWS terminal will not continuously sample level readings

ADJUST AMPLIFIER AND PAD ON AMP/PAD UNIT USING RMS-D2



ADJUST AMPLIFIER AND PAD ON AMP/PAD UNIT USING RMS-D2



ADJUST LOOP-AROUND AND TEST CIRCUIT ATTENUATORS — CPS FB606, USING RMS-D2 AND CONNECTVU OR TOPAS

At CONNECTVU/TOPAS Workstation (TWS)

[8] Select the **ST** button on TAT 0 (Select Tone)

[9] Enter a frequency of 1004 HZ and level of 0.0 dBm. Select **APPLY TONE** button

AND

Tone applied

[11] Adjust lower adjustment pad on LAT for a reading of -3.5 dBm on TMS

Page 3

See NOTE 1. At MISC A Frame CCT unit:

[10] See FIG. 1. Using small clip leads, connect transmission measuring set (TMS) to PO1 of LAT to be adjusted

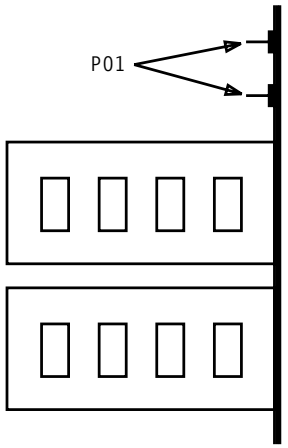
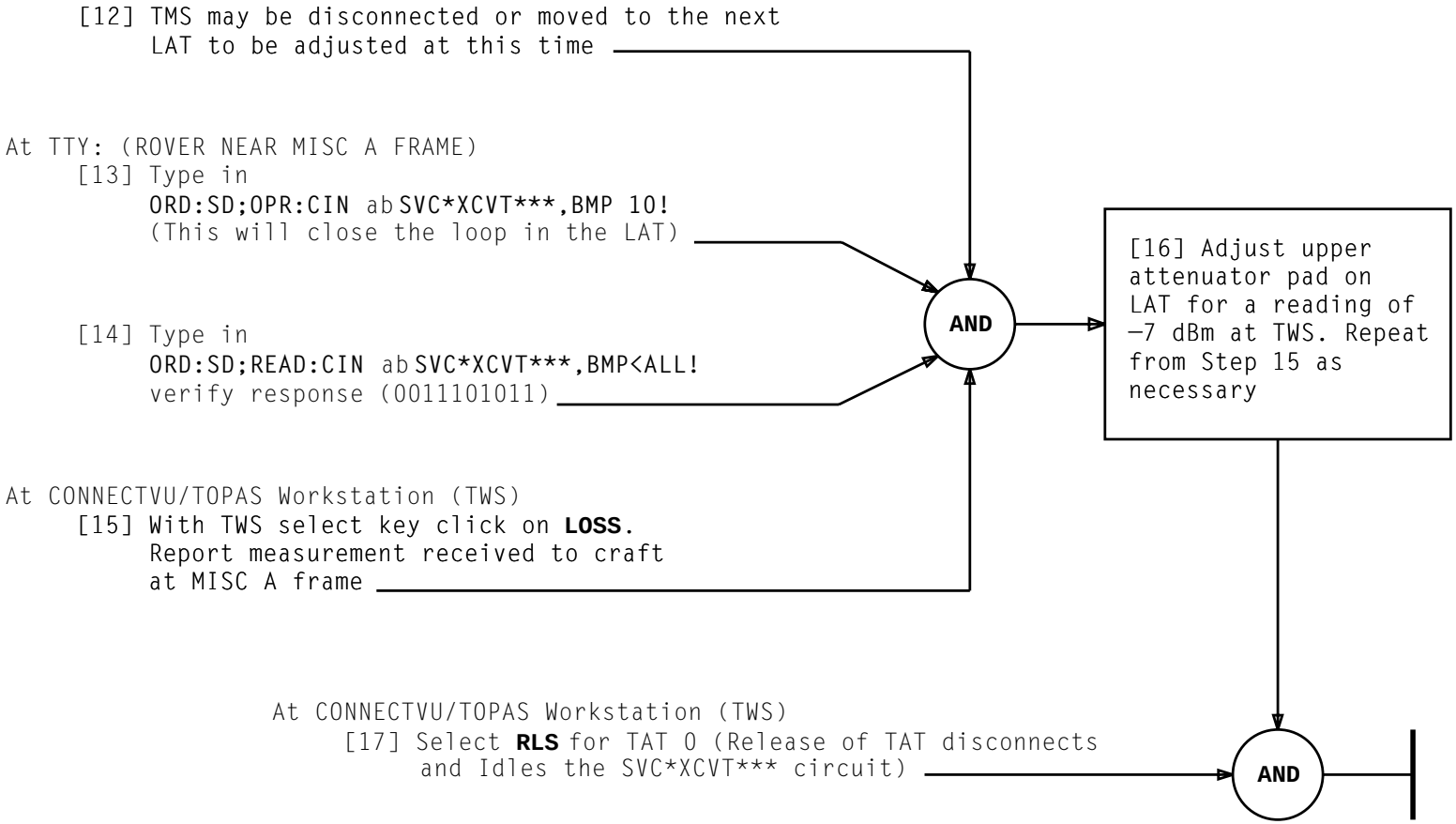


FIG. 1 – CPS FB606 Front View

NOTE 1
At CCT loop-around test unit, raise identifier strip. PO1 is a two lead connector on component side of circuit pack **FB606**

ADJUST LOOP-AROUND AND TEST CIRCUIT ATTENUATORS – CPS FB606, USING RMS-D2 AND CONNECTVU OR TOPAS



ADJUST LOOP-AROUND AND TEST CIRCUIT ATTENUATORS — CPS FB606, USING RMS-D2 AND CONNECTVU OR TOPAS

At CMS-1C TWS:

[1] Type in

110/a b SVC*XCVT***xxxx

a = CCT member number

b = LAT number on CCT unit

[2] Obtain DYNAMIC TEST CONTROL MENU

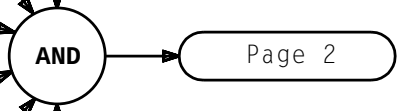
(enter **705**)

[3] Select SETC on TAT 0

(enter **710/0**) verify response

SET:CONN 0;TP nn:CIN abSVC*XCVT***xxxx;

NO OUTPULSE COMPLETE



At TTY (ROVER near MISC A frame)

[4] TRC:TRK,CIN abSVC*XCVT***xxxx;TRC!

verify connection to TAT STAT "TEST" 121

[5] Operate selected Misc Points

ORD:SD;OPR:CIN abSVC*XCVT***xxxx,BMP (3,4,5,7,9)!

[6] Verify operation

ORD:SD;READ:CIN abSVC*XCVT****,BMP ALL!

ADJUST LOOP-AROUND AND TEST CIRCUIT ATTENUATORS — CPS FB606 USING RMS-D2 AND CMS-1C

At CMS-1C TWS:

[7] Send 1004 HZ tone at -120 dBm on TAT 0
Enter **721/0/1/-10**

See NOTE 1. At MISC A Frame CCT unit:

[8] See FIG. 1 Connect Transmission Measuring Set (TMS)

[9] Adjust ATTEN 1 (lower) on LAT from a reading of -3.5 dBm on TMS

[10] TMS may be disconnected or moved to next LAT

AND

Page 3

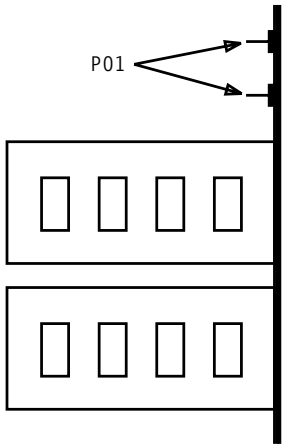


FIG. 1 – CPS FB606 Front View

NOTE 1
At CCT loop-around test unit, raise identifier strip. P01 is a two-lead connector on component side of circuit pack **FB606**

ADJUST LOOP-AROUND AND TEST CIRCUIT ATTENUATORS – CPS FB606 USING RMS-D2 AND CMS-1C

At TTY: (ROVER near MISC A frame)

[11] Close LOOP on LAT with
ORD:SD;OPR:CIN abSVC*XCVT***xxxx,BMP 10!

[12] Verify operation
ORD:SD;READ:CIN abSVC*XCVT***xxxx,BMP ALL!
Expect (0011101011)

At CMS-1C TWS:

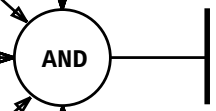
[13] Measure the returned signal.
Enter **722**

At MISC A Frame CCT unit:

[14] Adjust ATTEN 2 (upper) on LAT as directed by
TWS for them to read -7 dBm.
Repeat Steps 13 and 14 as necessary

At CMS-1C TWS:

[15] Release Test Position connection.
Enter **719/0**



ADJUST LOOP-AROUND AND TEST CIRCUIT ATTENUATORS — CPS FB606 USING RMS-D2 AND CMS-1C

ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE	ITEM	ISSUE
• IXL-001		• CKL-891									
NTP-002		TNG-893									
NTP-003											
NTP-004											
NTP-005											
TAD-100											
TAD-101											
ISD-102											
TAP-103											
ISD-104											
TAP-105											
ISD-106											
TAP-107											
ISD-108											
TAP-109											
TAP-110											
TAP-111											
ISD-112											
TAP-113											
ISD-114											
TAP-115											
DLP-500											
DLP-501											
DLP-502											
DLP-503											
DLP-504											
DLP-505											
DLP-506											
DLP-507											
DLP-508											
DLP-509											
DLP-510											
DLP-511											
• DLP-512											
• DLP-513											

• REVISED OR ADDED ITEM ☐ CANCELED ITEM