

BELL SYSTEM PRACTICES
AT&TCo Standard

551-100-100
Issue 1, May 1975

Task Oriented Practice
(TOP)

756A PBX

VOLUME 1 OF 2

INSTALLATION AND TEST

ROUTINE TASK LIST	001
ACCEPTANCE TASK LIST	030
SERVICE ORDER LIST	050
TROUBLE INDICATOR LIST	VOLUME 2

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VOLUME 1 OF 2

INSTALLATION AND TEST

NOTE

**Before using TOP for the first time, complete the
TOP-USER Plant Training Course—PTC No. 278.**

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ROUTINE TASKS	PROCEDURE NUMBER	
TEST:		
Alarm Counting, Releasing, and Lock-In	DLP-517	
Fuse Alarm	DLP-591	
Power Failure Transfer	DLP-524	
Release Alarm	DLP-516	
Time-Out Alarm	DLP-515	
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ACCEPTANCE TASKS

PROCEDURE
NUMBER

NOTE
TESTS SHOWN IN THE COMPANY
ORDER PROCEDURES (COPs) ARE
ARRANGED TO BE EMPLOYED
AS ACCEPTANCE TESTS

SERVICE ORDER TASK	PROCEDURE NUMBER
100-Series 756A PBX, Install and Test	COP-051
200-Series 756A PBX, Install and Test	COP-052
300-Series 756A PBX, Install and Test	COP-053
Additions to Existing 756A PBX:	
Attendant-Controlled Dial Conference Equipment, Install and Test	DLP-530
Attendant Equipment:	
Console, 3-Type, Install and Test	COP-054
Console, 4-Type, Install and Test	COP-055
Key Telephone Set, Install and Test	COP-056
556A Switchboard, Install and Test	COP-057
Busy Verification Trunk, Install and Test	DLP-537
Central Office Trunks (Plug-In Type), Install and Test	COP-058
Code Call Equipment, Install and Test	DLP-539
Dial Conference (Meet-Me-Type) Equipment, Install and Test	DLP-545
Direct Station Selection by Station Equipment, Install and Test	DLP-541
Inward Restriction Equipment, Install and Test	DLP-555
Loudspeaker Paging Trunk, Install and Test	DLP-543
Message Waiting Equipment, Install and Test	DLP-547
Recorded Telephone Dictation Trunk, Install and Test	DLP-549
Remote Trunk Answer Equipment, Install and Test	DLP-534
Ringdown Tie Trunks, Install and Test	DLP-551
Station-Controlled Dial Conference Equipment, Install and Test	DLP-553
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SERVICE ORDER TASK	PROCEDURE NUMBER
Additions to Existing 756A PBX (cont):	
Station Dial Transfer Equipment, Install and Test	DLP-532
Station and Trunk Message Registers, Install and Test	DLP-557
TOUCH-TONE® Calling A-Type Receiver, Install and Test	DLP-560
TOUCH-TONE® Calling C-Type Receiver, Install and Test	DLP-559
Traffic and Trouble Registers, Install and Test	COP-059
Traffic Measurement System (TMS 1A), Install and Test	COP-060
Remove Optional Equipment From Service	DLP-594
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ITEM	SUBTASKS	PROCEDURE NUMBER
1	Assemble 756A Cabinets	DLP-500
2	Install Crown Cables	DLP-501
3	Install Attendant Equipment as Required by Service Order:	
	(A) 3-Type Console Equipment	DLP-502
	(B) 6-Button Key Telephone Set	DLP-504
	(C) 556A Switchboard	DLP-505
	(D) <i>If No Attendant Equipment</i> — Wire Attendant Trunk Option	DLP-506
4	Wire Station Options	DLP-507
5	Install Central Office (Plug-In Type) Trunks	DLP-508
6	Wire Options for Central Office (Plug-In Type) Trunks	DLP-509
7	Test Basic 756A PBX	DLP-510
8	Install and Test Optional Equipment as Required by Service Order:	
	(A) Busy Verification Trunk	DLP-537
	(B) Code Call	DLP-539
	(C) Direct Station Selection by Station	DLP-541
	(D) Loudspeaker Paging Trunk	DLP-543
	(E) Meet-Me-Type Conference	DLP-545
	(F) Message Waiting	DLP-547
	(G) Recorded Telephone Dictation	DLP-549
	(H) Ringdown Tie Trunks	DLP-551
	(I) Station-Controlled Dial Conference	DLP-553
	(J) Station Inward Restriction	DLP-555
	<i>(continued on page 2)</i>	
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ITEM	SUBTASKS	PROCEDURE NUMBER	
	Install and Test Optional Equipment as Required by Service Order (cont):		
	(K) Station Message Register	DLP-557	
	(L) TOUCH-TONE® Calling A-Type Receiver	DLP-560	
	(M) TOUCH-TONE® Calling C-Type Receiver	DLP-559	
9	Install Traffic and Trouble Registers	DLP-562	
10	Test Traffic and Trouble Registers:		
	(A) Busy Tone Overflow (BTOF)	DLP-563	
	(B) Busy Tone Peg Count (BTPC)	DLP-564	
	(C) Junctor Overflow (JOF)	DLP-565	
	(D) Junctor Peg Count (JPC)	DLP-566	
	(E) Link Overflow (LOF)	DLP-567	
	(F) No-Connection Peg Count (NCPC)	DLP-568	
	(G) Originating (Station) Peg Count (OPC)	DLP-569	
	(H) Register Overflow (ROF)	DLP-570	
	(I) Second Trial Peg Count (STPC)	DLP-568	
	(J) Terminating (Trunk) Peg Count (TPC)	DLP-571	
	(K) Time-Out Peg Count (TOPC)	DLP-568	
	(L) TRK GRP 8 Overflow (OF8)	DLP-572	
	(M) TRK GRP 9 Overflow (OF9)	DLP-573	
	(N) TRK GRP 0 Overflow (OF0)	DLP-574	
	(O) TRK GRP 8 Terminating Peg Count (TPC8)	DLP-575	
	(P) TRK GRP 8 Originating Peg Count (OPC8)	DLP-576	
	<i>(continued on page 3)</i>		
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ITEM	SUBTASKS	PROCEDURE NUMBER
	Test Traffic and Trouble Registers (cont):	
	(Q) TRK GRP 9 Terminating Peg Count (TPC9)	DLP-577
	(R) TRK GRP 9 Originating Peg Count (OPC9)	DLP-578
	(S) TRK GRP 0 Terminating Peg Count (TPC0)	DLP-579
	(T) Trouble Release Peg Count (TRPC)	DLP-568
11	Install Traffic Measurement System (TMS 1A)	DLP-580
12	Test Traffic Measurement Leads (for TMS 1A):	
	(A) Attendant Trunk Leads	DLP-582
	(B) Busy Tone Trunk Leads	DLP-583
	(C) Central Office Trunk Leads	DLP-584
	(D) Junctor Leads	DLP-585
	(E) Link Leads	DLP-586
	(F) Register Leads	DLP-587
	(G) Ringdown Tie Trunk Leads	DLP-588
	(H) Station Dial Transfer Trunk Leads	DLP-589
	(I) Universal Line Circuit Leads	DLP-590
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ITEM	SUBTASKS	PROCEDURE NUMBER	
1	Assemble 756A Cabinets	DLP-500	
2	Install Crown Cables	DLP-501	
3	Install Attendant Equipment as Required by Service Order:		
	(A) 4-Type Console Equipment	DLP-503	
	(B) 6-Button Key Telephone Set	DLP-504	
	(C) <i>If No Attendant Equipment</i> — Wire Attendant Trunk Option	DLP-506	
4	Wire Station Options	DLP-507	
5	Install Central Office (Plug-In Type) Trunks	DLP-508	
6	Wire Options for Central Office (Plug-In Type) Trunks	DLP-509	
7	Test Basic 756A PBX	DLP-510	
8	Install and Test Attendant-Controlled Dial Conference Equipment	DLP-530	
9	Test Camp-On Feature	DLP-536	
10	Install and Test Optional Equipment as Required by Service Order		
	(A) Busy Verification Trunk	DLP-537	
	(B) Code Call	DLP-539	
	(C) Direct Station Selection by Station	DLP-541	
	(D) Loudspeaker Paging Trunk	DLP-543	
	(E) Meet-Me-Type Conference	DLP-545	
	(F) Message Waiting	DLP-547	
	(G) Recorded Telephone Dictation	DLP-549	
	(H) Ringdown Tie Trunks	DLP-551	
	(I) Station-Controlled Dial Conference	DLP-553	
	<i>(continued on page 2)</i>		
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ITEM	SUBTASKS	PROCEDURE NUMBER	
	Install and Test Optional Equipment as Required by Service Order (cont):		
	(J) Station Inward Restriction	DLP-555	
	(K) Station Message Register	DLP-557	
	(L) TOUCH-TONE® Calling A-Type Receiver	DLP-560	
	(M) TOUCH-TONE® Calling C-Type Receiver	DLP-559	
11	Install Traffic and Trouble Registers	DLP-562	
12	Test Traffic and Trouble Registers:		
	(A) Busy Tone Overflow (BTOF)	DLP-563	
	(B) Busy Tone Peg Count (BTPC)	DLP-564	
	(C) Junctor Overflow (JOF)	DLP-565	
	(D) Junctor Peg Count (JPC)	DLP-566	
	(E) Link Overflow (LOF)	DLP-567	
	(F) No-Connection Peg Count (NCPC)	DLP-568	
	(G) Originating (Station) Peg Count (OPC)	DLP-569	
	(H) Register Overflow (ROF)	DLP-570	
	(I) Second Trial Peg Count (STPC)	DLP-568	
	(J) Terminating (Trunk) Peg Count (TPC)	DLP-571	
	(K) Time-Out Peg Count (TOPC)	DLP-568	
	(L) TRK GRP 8 Overflow (OF8)	DLP-572	
	(M) TRK GRP 9 Overflow (OF9)	DLP-573	
	(N) TRK GRP 0 Overflow (OF0)	DLP-574	
	(O) TRK GRP 8 Terminating Peg Count (TPC8)	DLP-575	
	<i>(continued on page 3)</i>		
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ITEM	SUBTASKS	PROCEDURE NUMBER
	Test Traffic and Trouble Registers (cont):	
	(P) TRK GRP 8 Originating Peg Count (OPC8)	DLP-576
	(Q) TRK GRP 9 Terminating Peg Count (TPC9)	DLP-577
	(R) TRK GRP 9 Originating Peg Count (OPC9)	DLP-578
	(S) TRK GRP 0 Terminating Peg Count (TPC0)	DLP-579
	(T) Trouble Release Peg Count (TRPC)	DLP-568
13	Install Traffic Measurement System (TMS 1A)	DLP-580
14	Test Traffic Measurement Leads (for TMS 1A):	
	(A) Attendant Trunk Leads	DLP-582
	(B) Busy Tone Trunk Leads	DLP-583
	(C) Central Office Trunk Leads	DLP-584
	(D) Junctor Leads	DLP-585
	(E) Link Leads	DLP-586
	(F) Register Leads	DLP-587
	(G) Ringdown Tie Trunk Leads	DLP-588
	(H) Station Dial Transfer Trunk Leads	DLP-589
	(I) Universal Line Circuit Leads	DLP-590
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ITEM	SUBTASKS	PROCEDURE NUMBER	
1	Assemble 756A Cabinets	DLP-500	
2	Install Crown Cables	DLP-501	
3	Install Attendant Equipment as Required by Service Order:		
	(A) 4-Type Console Equipment	DLP-503	
	(B) 6-Button Key Telephone Set	DLP-504	
	(C) <i>If No Attendant Equipment</i> — Wire Attendant Trunk Option	DLP-506	
4	Wire Station Options	DLP-507	
5	Install Central Office (Plug-In Type) Trunks	DLP-508	
6	Wire Options for Central Office (Plug-In Type) Trunks	DLP-509	
7	Test Basic 756A PBX	DLP-510	
8	Install and Test Attendant Controlled Dial Conference Equipment	DLP-530	
9	Install and Test Call Transfer Individual Feature (Station Dial Transfer Equipment)	DLP-532	
10	Install and Test Trunk-Answer-From-Any-Station Equipment (Remote Trunk Answer)	DLP-534	
11	Test Camp-On	DLP-536	
12	Install and Test Optional Equipment as Required by Service Order:		
	(A) Busy Verification Trunk	DLP-537	
	(B) Code Call	DLP-539	
	(C) Direct Station Selection by Station	DLP-541	
	(D) Loudspeaker Paging Trunk	DLP-543	
	(E) Meet-Me-Type Conference	DLP-545	
	(F) Message Waiting	DLP-547	
	(G) Recorded Telephone Dictation	DLP-549	
	<i>(continued on page 2)</i>		
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ITEM	SUBTASKS	PROCEDURE NUMBER	
	Install and Test Optional Equipment as Required by Service Order (cont):		
	(H) Ringdown Tie Trunks	DLP-551	
	(I) Station-Controlled Dial Conference	DLP-553	
	(J) Station Inward Restriction	DLP-555	
	(K) Station Message Register	DLP-557	
	(L) TOUCH-TONE® Calling A-Type Receiver	DLP-560	
	(M) TOUCH-TONE® Calling C-Type Receiver	DLP-559	
13	Install Traffic and Trouble Registers	DLP-562	
14	Test Traffic and Trouble Registers:		
	(A) Busy Tone Overflow (BTOF)	DLP-563	
	(B) Busy Tone Peg Count (BTPC)	DLP-564	
	(C) Junctor Overflow (JOF)	DLP-565	
	(D) Junctor Peg Count (JPC)	DLP-566	
	(E) Link Overflow (LOF)	DLP-567	
	(F) No-Connection Peg Count (NCPC)	DLP-568	
	(G) Originating (Station) Peg Count (OPC)	DLP-569	
	(H) Register Overflow (ROF)	DLP-570	
	(I) Second Trial Peg Count (STPC)	DLP-568	
	(J) Terminating (Trunk) Peg Count (TPC)	DLP-571	
	(K) Time-Out Peg Count (TOPC)	DLP-568	
	(L) TRK GRP 8 Overflow (OF8)	DLP-572	
	(M) TRK GRP 9 Overflow (OF9)	DLP-573	
	<i>(continued on page 3)</i>		
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ITEM	SUBTASKS	PROCEDURE NUMBER	
	Test Traffic and Trouble Registers (cont):		
	(N) TRK GRP 0 Overflow (OF0)	DLP-574	
	(O) TRK GRP 8 Terminating Peg Count (TPC8)	DLP-575	
	(P) TRK GRP 8 Originating Peg Count (OPC8)	DLP-576	
	(Q) TRK GRP 9 Terminating Peg Count (TPC9)	DLP-577	
	(R) TRK GRP 9 Originating Peg Count (OPC9)	DLP-578	
	(S) TRK GRP 0 Terminating Peg Count (TPC0)	DLP-579	
	(T) Trouble Release Peg Count (TRPC)	DLP-568	
15	Install Traffic Measurement System (TMS 1A)	DLP-580	
16	Test Traffic Measurement Leads (for TMS 1A):		
	(A) Attendant Trunk Leads	DLP-582	
	(B) Busy Tone Trunk Leads	DLP-583	
	(C) Central Office Trunk Leads	DLP-584	
	(D) Junctor Leads	DLP-585	
	(E) Link Leads	DLP-586	
	(F) Register Leads	DLP-587	
	(G) Ringdown Tie Trunk Leads	DLP-588	
	(H) Station Dial Transfer Trunk Leads	DLP-589	
	(I) Universal Line Circuit Leads	DLP-590	
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ITEM	SUBTASKS	PROCEDURE NUMBER				
1	Install 3-Type Console Equipment	DLP-502				
2	Test Attendant Console	DLP-593				
<p style="text-align: center;">[Empty Subtask Area]</p>						
			<p style="text-align: center;">INSTALL AND TEST 3-TYPE CONSOLE EQUIPMENT</p>		Issue 1	May 1975
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ITEM	SUBTASKS	PROCEDURE NUMBER				
1	Install 4-Type Console Equipment	DLP-503				
2	Test Attendant Console	DLP-593				
<p style="text-align: center;">[Empty Subtasks Area]</p>						
			<p>INSTALL AND TEST 4-TYPE CONSOLE EQUIPMENT</p>		Issue 1	May 1975
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ITEM	SUBTASKS	PROCEDURE NUMBER
1	Install Attendant Key Telephone (6-Button) Set	DLP-504
2	Test Attendant Key Telephone (6-Button) Set	DLP-592
INSTALL AND TEST ATTENDANT KEY TELEPHONE (6-BUTTON) SET		Issue 1
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ITEM	SUBTASKS	PROCEDURE NUMBER
1	Install 556A Switchboard	DLP-505
2	Test 2-Way Central Office, Manual Central Office, and Ringdown Tie Trunks at 556A Switchboard	DLP-511
3	Test Stations at 556A Switchboard	DLP-512
4	Test Manual Conference Circuit at 556A Switchboard	DLP-513
INSTALL AND TEST 556A SWITCHBOARD		Issue 1
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ITEM	SUBTASKS	PROCEDURE NUMBER
1	Install Central Office Trunks (Plug-In Type)	DLP-508
2	Wire Options for Central Office Trunks	DLP-509
3	Test Central Office Trunks	DLP-522
INSTALL AND TEST CENTRAL OFFICE TRUNKS (PLUG-IN TYPE)		Issue 1
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ITEM	SUBTASKS	PROCEDURE NUMBER	
1	Install Traffic and Trouble Registers	DLP-562	
2	Test Traffic and Trouble Registers :		
	(A) Busy Tone Overflow (BTOF)	DLP-563	
	(B) Busy Tone Peg Count (BTPC)	DLP-564	
	(C) Junctor Overflow (JOF)	DLP-565	
	(D) Junctor Peg Count (JPC)	DLP-566	
	(E) Link Overflow (LOF)	DLP-567	
	(F) No-Connection Peg Count (NCPC)	DLP-568	
	(G) Originating (Station) Peg Count (OPC)	DLP-569	
	(H) Register Overflow (ROF)	DLP-570	
	(I) Second Trial Peg Count (STPC)	DLP-568	
	(J) Terminating (Trunk) Peg Count (TPC)	DLP-571	
	(K) Time-Out Peg Count (TOPC)	DLP-568	
	(L) TRK GRP 8 Overflow (OF8)	DLP-572	
	(M) TRK GRP 9 Overflow (OF9)	DLP-573	
	(N) TRK GRP 0 Overflow (OF0)	DLP-574	
	(O) TRK GRP 8 Terminating Peg Count (TPC8)	DLP-575	
	(P) TRK GRP 8 Originating Peg Count (OPC8)	DLP-576	
	(Q) TRK GRP 9 Terminating Peg Count (TPC9)	DLP-577	
	(R) TRK GRP 9 Originating Peg Count (OPC9)	DLP-578	
	(S) TRK GRP 0 Originating Peg Count (TPC0)	DLP-579	
	(T) Trouble Release Peg Count (TRPC)	DLP-568	
INSTALL AND TEST TRAFFIC AND TROUBLE REGISTERS		Issue 1	May 1975
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ITEM	SUBTASKS	PROCEDURE NUMBER
1	Install Traffic Measurement System (TMS 1A) Equipment	DLP-580
2	Test Traffic Measurement Leads (for TMS 1A):	
	(A) Attendant Trunk Leads	DLP-582
	(B) Busy Tone Trunk Leads	DLP-583
	(C) Central Office Trunk Leads	DLP-584
	(D) Junctor Leads	DLP-585
	(E) Link Leads	DLP-586
	(F) Register Leads	DLP-587
	(G) Ringdown Tie Trunk Leads	DLP-588
	(H) Station Dial Transfer Trunk Leads	DLP-589
	(I) Universal Line Circuit Leads	DLP-590
<p style="text-align: center;">INSTALL AND TEST TRAFFIC MEASUREMENT SYSTEM (TMS 1A)</p>		
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<p style="text-align: center;">INSTALL AND TEST TRAFFIC MEASUREMENT SYSTEM (TMS 1A)</p>		May 1975
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[1] See WARNING. Using pinchbar and hammer, remove top, front, back, and side panels from shipping crates
[NOTE 1]

WARNING
Care must be taken while uncrating. There is no protection for relays and other items inside packing case

NOTE 2
Considerations for locating:
a. Floor must support 20 lb per sq ft (750 lb per cab)
b. Area should be dry, heated, and properly ventilated
c. Area should be clear of water, steam, and sprinkler pipes

[2] See DANGER 1. Move cabinets to installation area. Refer any location problems to supervisor
[NOTE 2]

NOTE 1
Keep work area clear. Remove crates and packing materials as uncrating progresses

DANGER 1
Care should be taken when moving the PBX cabinets. Weight of each cabinet is approximately 750 lbs.

[3] Slide cabinets off skids (skids are not attached to cabinets)

[4] Remove packing material (polyfoam, collars, covers, etc)

[5] Slide top cover off each cabinet

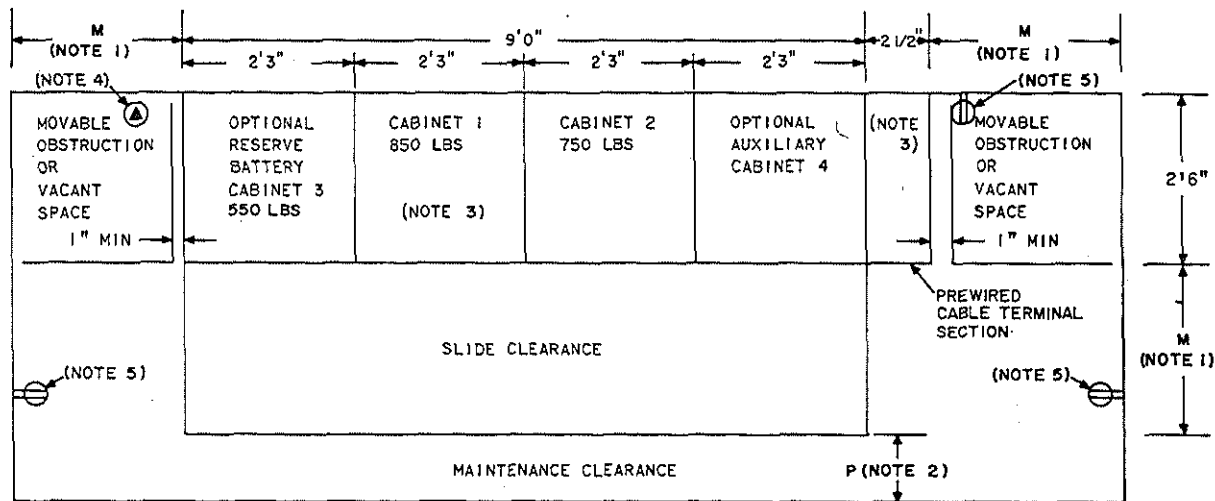
[6] Slide cabinets, except battery reserve cabinet, into position [FIG. 1]



Cabinets positioned for installation

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NOTES:

1. M SHOULD NOT BE LESS THAN 2 FT 6 IN. THIS SPACE IS THE MINIMUM NEEDED TO WITHDRAW SLIDES FROM CABINETS OR TO PROVIDE ACCESS TO THE ENDS OF THE LINEUP.
2. P IS A MINIMUM OF 1 FT. 6 IN. RECOMMENDED TO ALLOW PASSAGE AROUND SLIDES WHEN WITHDRAWN FROM CABINETS.
3. THE TERMINAL SECTION CAN BE MOUNTED ON THE RIGHT END OF THE LINEUP OR, IF THE RESERVE BATTERY CABINET IS NOT PROVIDED, THE TERMINAL SECTION CAN BE MOUNTED ON THE LEFT END OF CABINET 1.
4. CUSTOMER PROVIDED WALL MOUNTED, 117 VAC, 60HZ, SINGLE-PHASE, COMMERCIAL POWER SOURCE, FUSED FOR 15 AMPS, EQUIPPED WITH A HUBBELL 5251 CONNECTOR, OR EQUIVALENT. POWER MUST BE SEPARATELY FUSED AND SWITCHED. EXTENSION CORDS MUST NOT BE USED.
5. CUSTOMER PROVIDED 117 VAC OUTLETS FOR AUXILIARY EQUIPMENT, SUCH AS MESSAGE WAITING UNIT, PLUGGED EXTERNAL TO THE PBX, AS REQUIRED.

FIG. 1

ASSEMBLE 756A CABINETS

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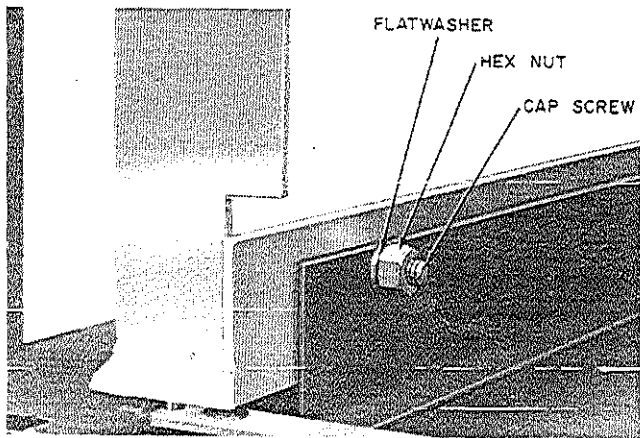


FIG. 2

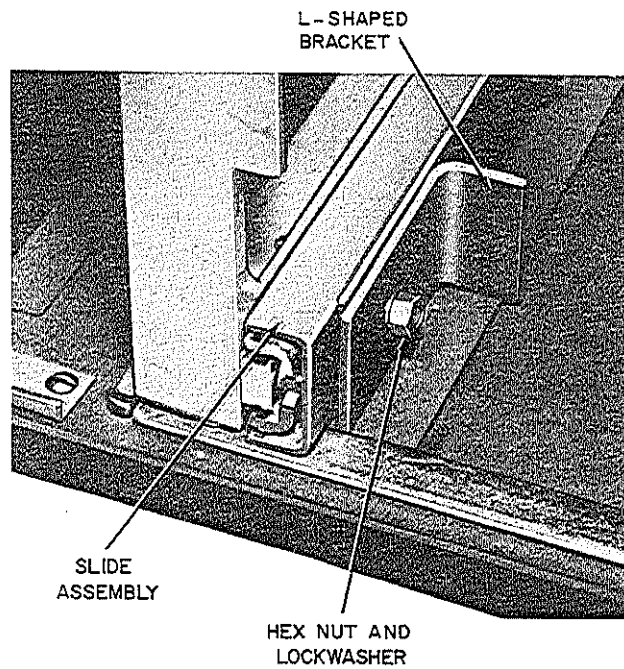


FIG. 4

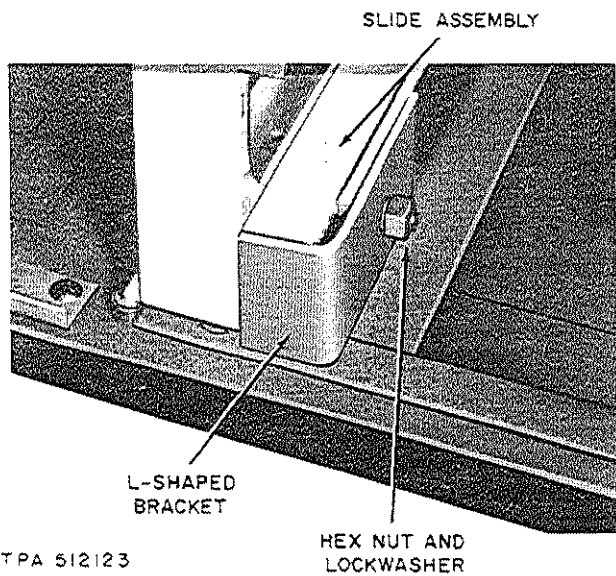


FIG. 3

[7] What type slide locking arrangement is provided [FIG. 2 and FIG. 3]

Stop bolt

Locking bracket

[8] Remove hex nut (9/16 in.), cap screw, and washer from each slide

[9] Retain hardware for future use

AND

[10] Remove hex nut (9/16 in.), lockwasher, and bracket

[11] Reverse bracket and replace lockwasher and hex nut [FIG. 4]

[12] Tighten hex nut to prevent bracket from shifting

AND

[13] Align and level cabinets using shims if necessary to provide an effective dust seal between cabinets [NOTE 3]

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NOTE 3
For a more effective dust seal, apply Tesamoll tape (3/8 by 1/4 in., United Mineral and Chemical Corp, NY, NY) to one of the adjoining surfaces between cabinets. If one cabinet is type 1E037, tape must be applied to that cabinet

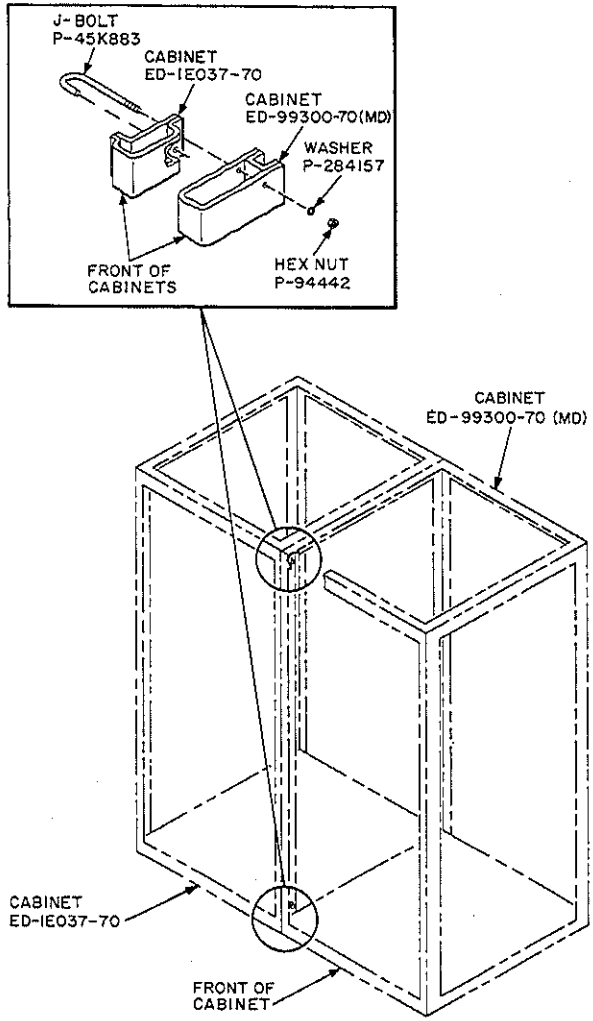


FIG. 5 — Bolting an ED-1E037-70 and an ED-99300-70 Cabinet Together

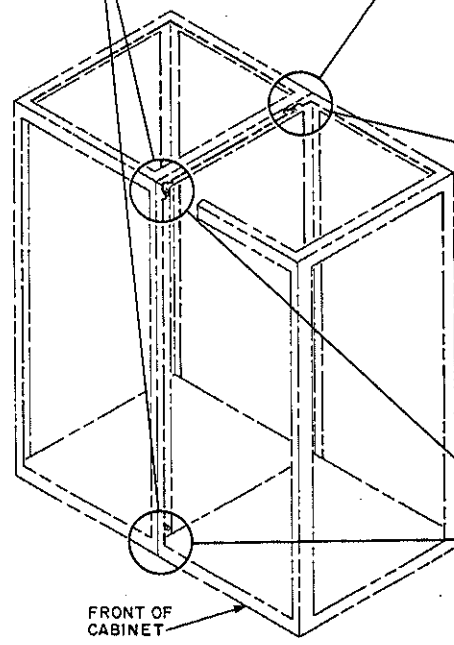
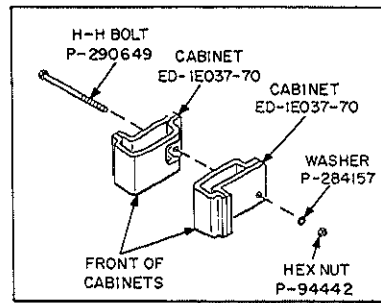
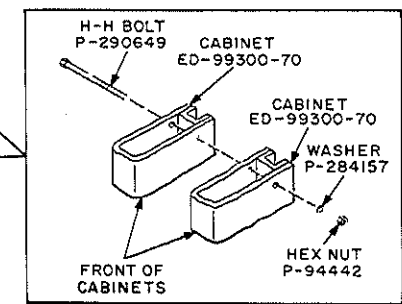
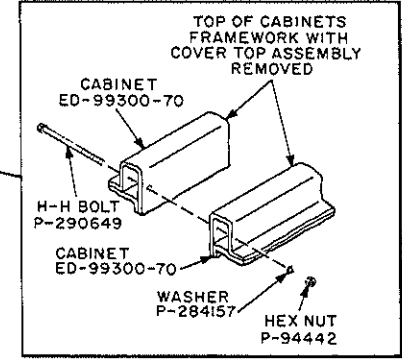
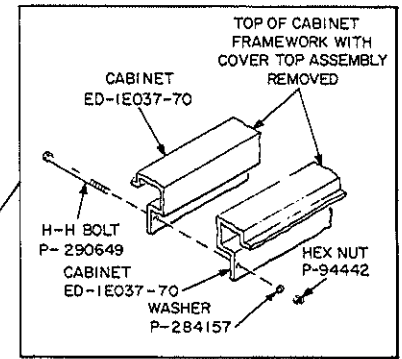
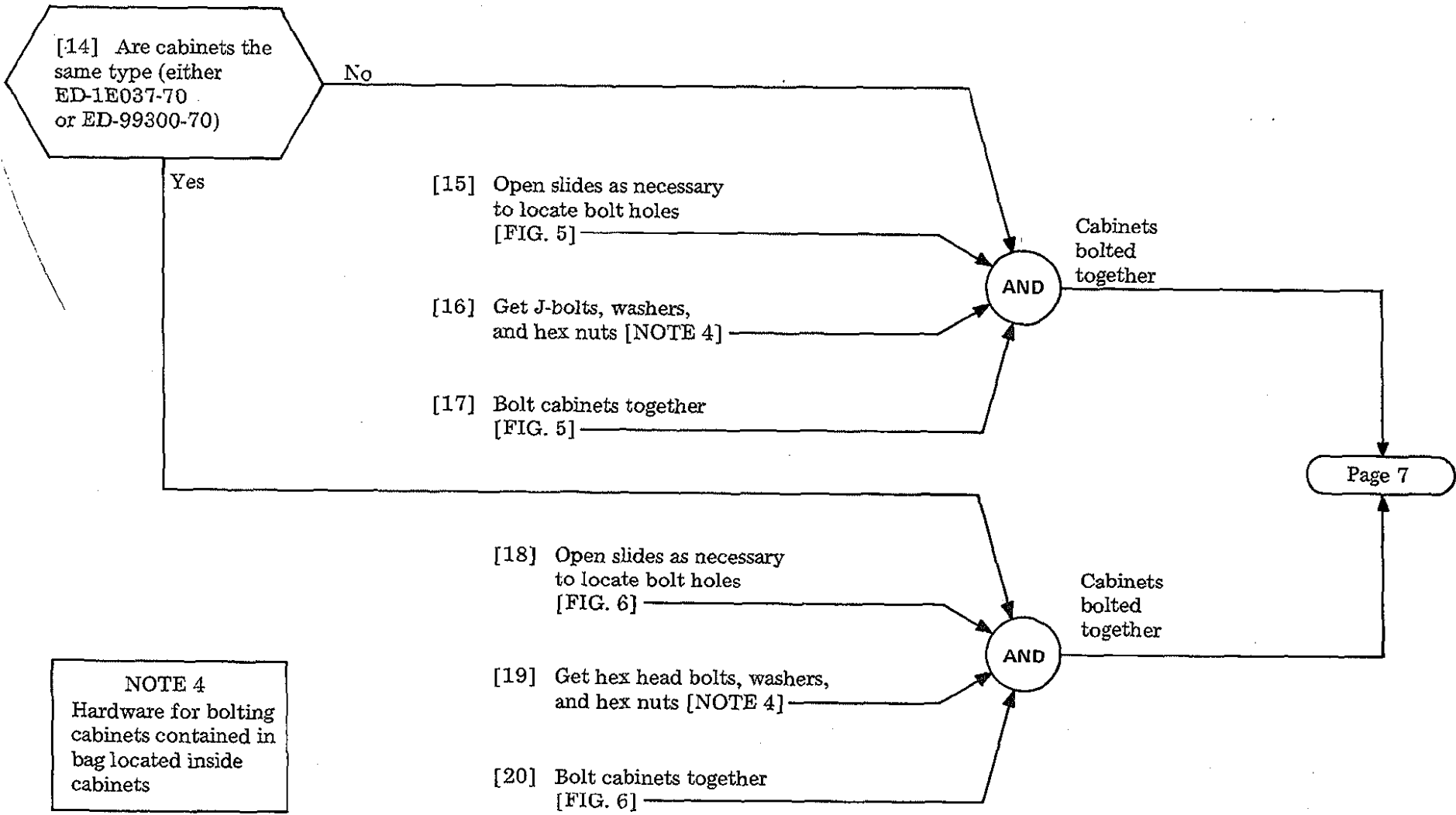


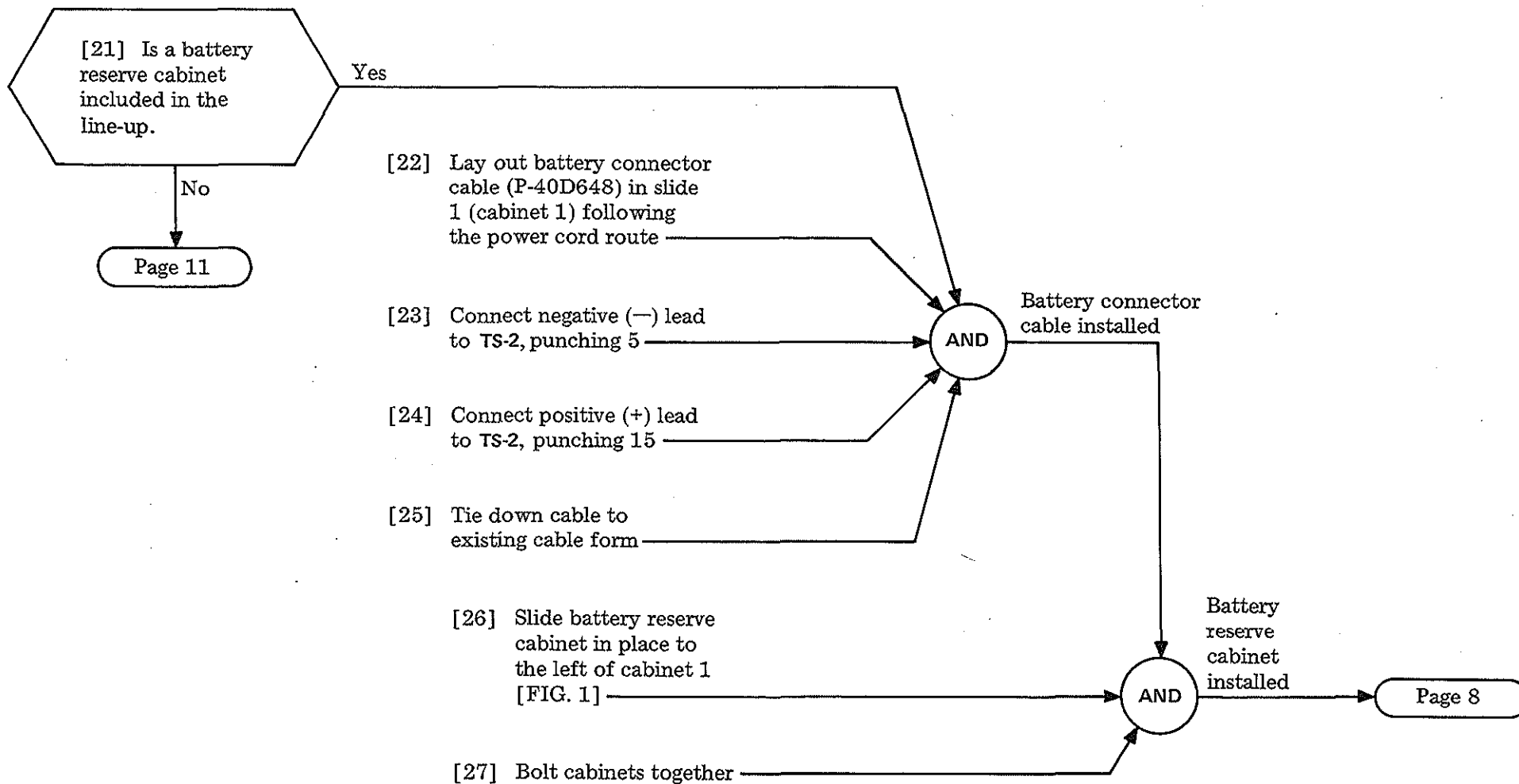
FIG. 6 — Bolting Two Like Cabinets Together





NOTE 4
 Hardware for bolting cabinets contained in bag located inside cabinets

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[28] Remove batteries and electrolyte from packing cartons

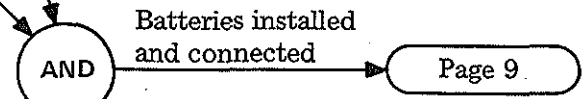
[29] See DANGER 2. Fill batteries with electrolyte. Do not overfill

DANGER 2
Wear neoprene gloves, apron, and special goggles when handling electrolyte. See NOTE 5 for first aid instructions

[30] Place batteries in bottom of cabinet and install interconnecting cables [FIG. 7]

[31] Space the batteries so as to allow 1/2 inch clearance around all sides

[32] Route battery connector cable (P-40D648 from cabinet 1 to battery reserve cabinet and connect to batteries [FIG. 7]



NOTE 5
First Aid for Electrolyte in Eyes or on Skin:
Remove electrolyte from skin or eyes by flushing affected area with large amounts of tap water. For the eye, allow at least one quart of water to run over the eye and under the eyelid. Eye injuries must be referred to a physician as soon as possible

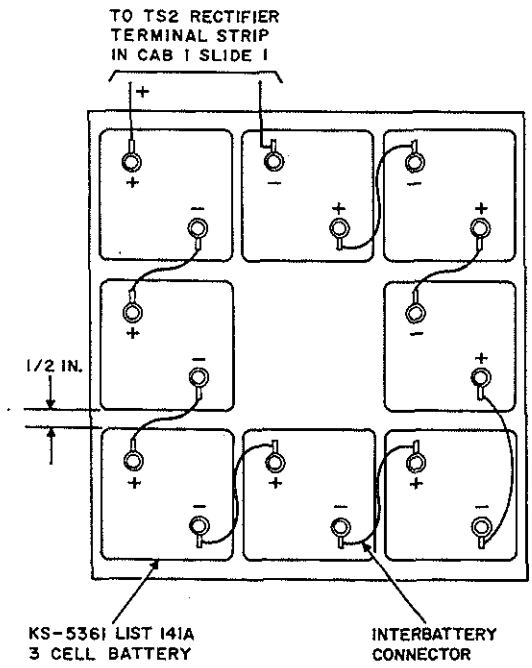


FIG. 7

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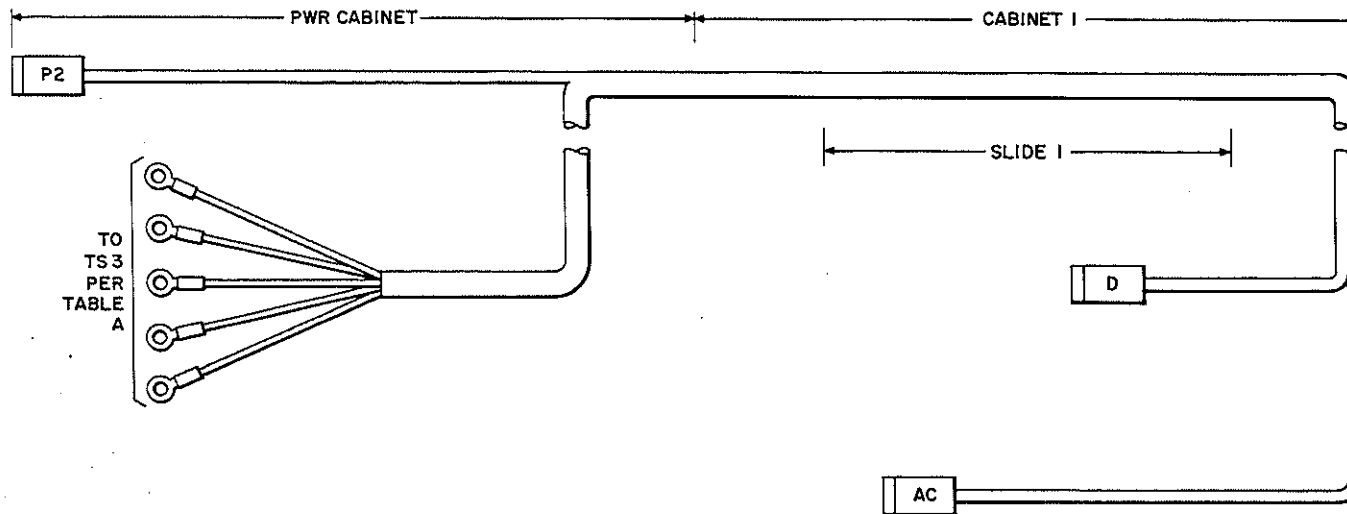


FIG. 8

[33] Lay out H-912-400, Group 1 supplementary crown cable [FIG. 8] from crown of cabinet 1, slide 1 to power cabinet

[34] Mate cable connectors D and AC [FIG. 8] to slide 1 crown connectors D1 and AC1

[35] Mate plug P2 to connector P2 in crown of power cabinet [FIG. 8]

[36] Connect spade-ended leads to TS-3 in crown of power cabinet [TABLE A]

Group 1 Supplementary crown cable H-912-400 installed and connected

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AND

TABLE A		
CONNECT		TO
LEAD		TS-3 (CROWN OF POWER CAB)
FUNCTION	COLOR	TERMINAL
-96V	BL-R	3
RB ALARM	BK-BL	9
+48V	BL-BK	4
±10V AC	BK-O	6
10V AC ALARM	O-BK	8

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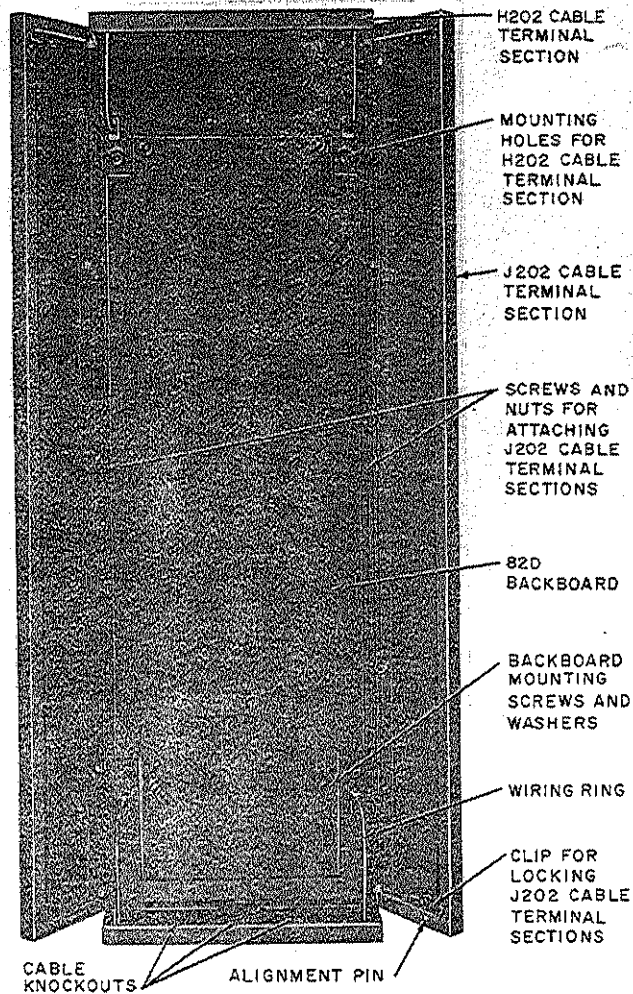


FIG. 9 – Cable Terminal Sections J202 and H202 Installed

TABLE B	
EQUIPMENT	QUANTITY
Cable terminal section H202	3
Cable terminal section J202	2
Backboards: 82A or 82D	6 (2 for each H202) 3 (1 for each H202)
Terminal blocks 66B3-50	12 (4 for each H202)

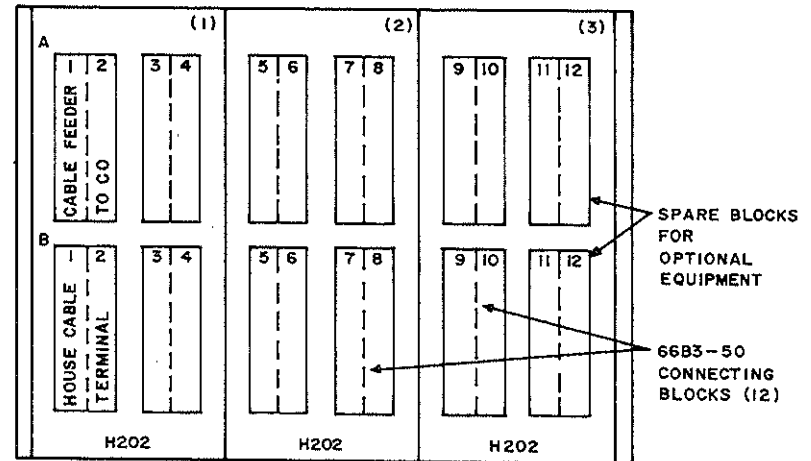
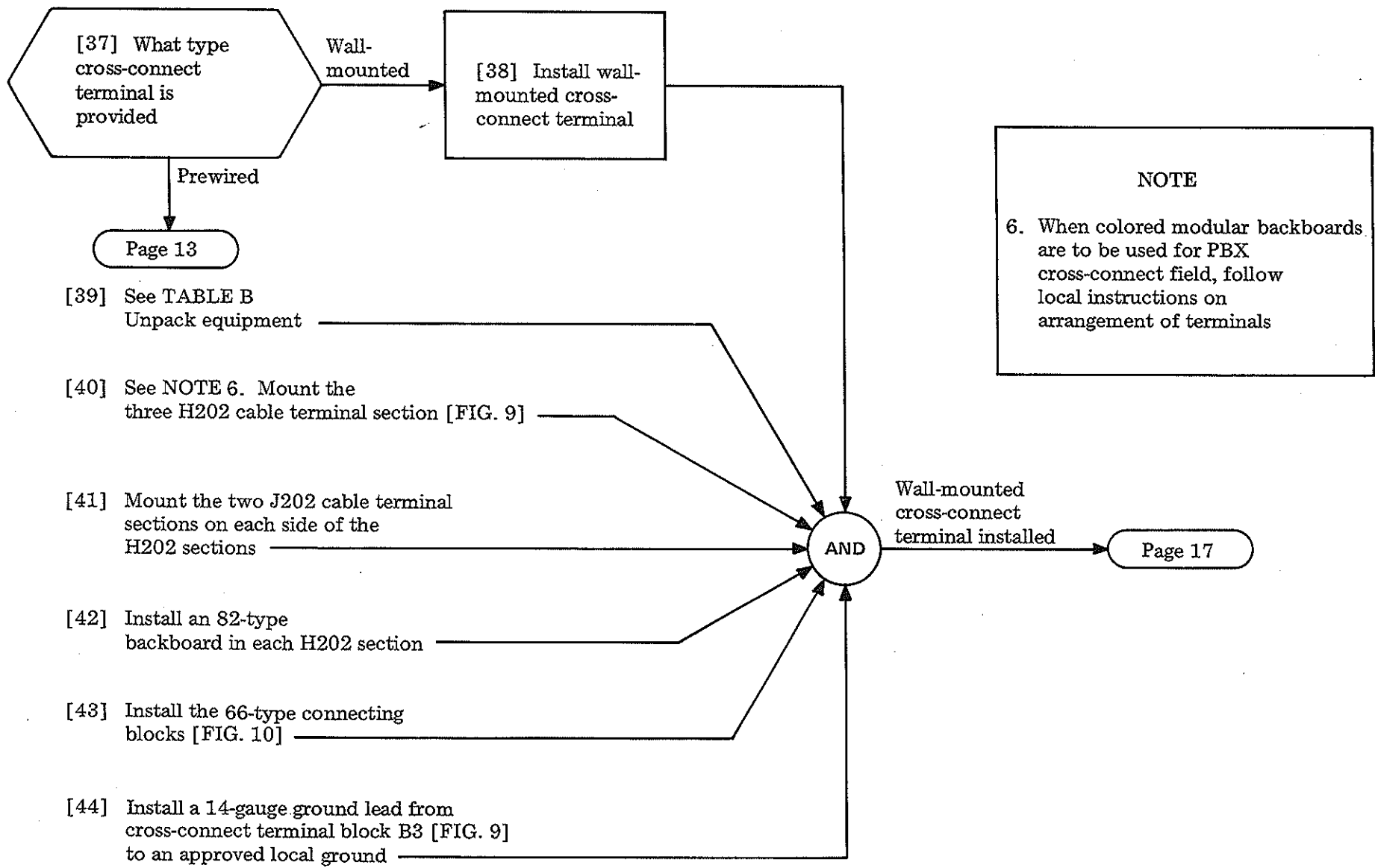


FIG. 10



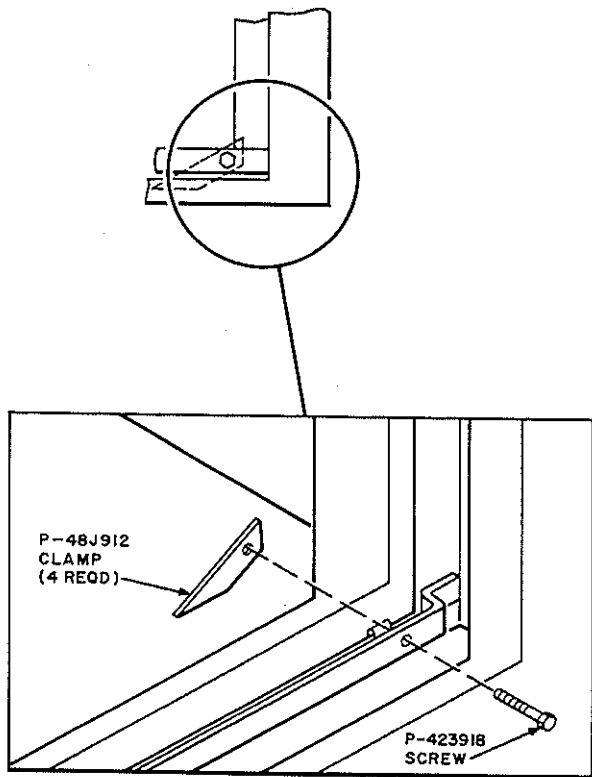


FIG. 11 — Cabinet ED-99300-70

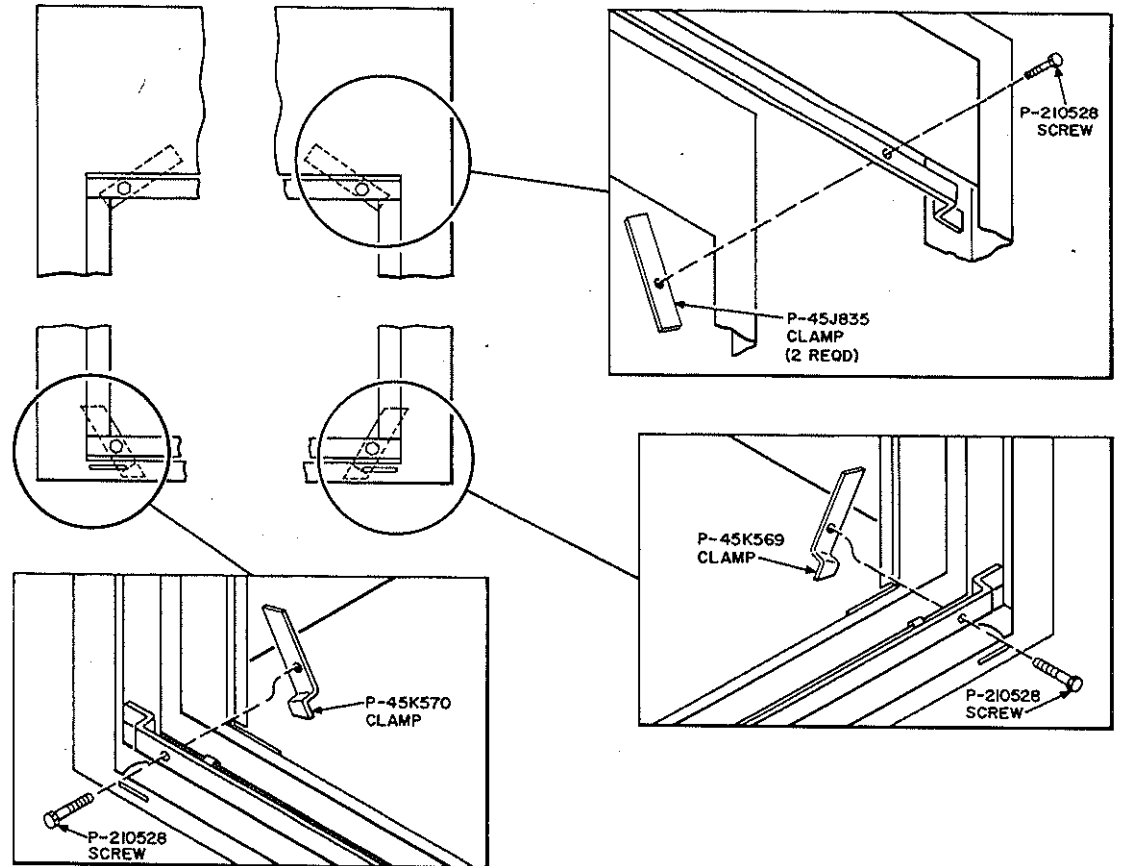
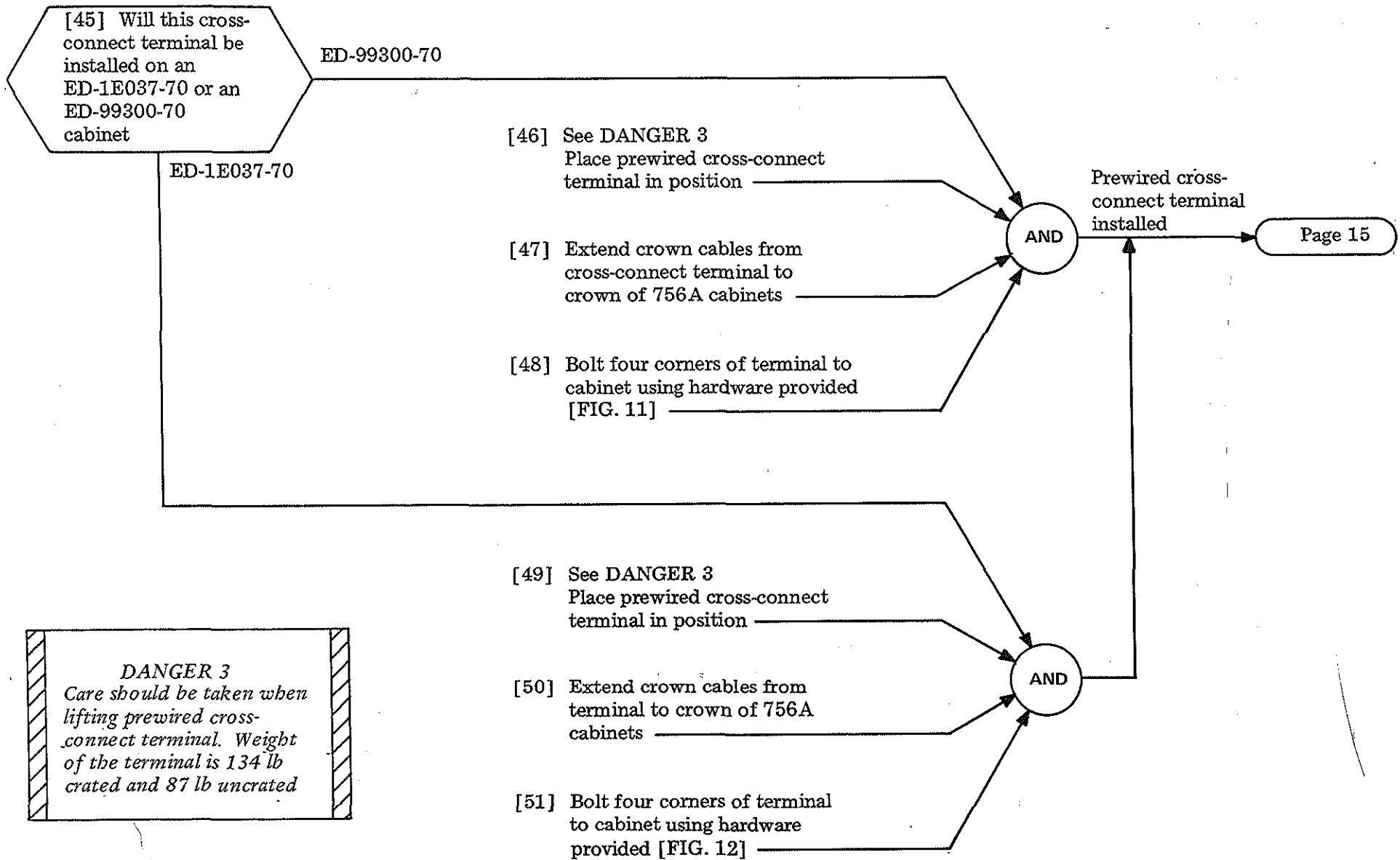


FIG. 12 — Cabinet ED-1E037-70



DANGER 3
Care should be taken when lifting prewired cross-connect terminal. Weight of the terminal is 134 lb crated and 87 lb uncrated

TABLE C		
WATER PIPE	POWER CONDITION*	WHAT TO DO FOR PROPER GROUNDING
Acceptable metallic water pipe (at least 10 feet in moist soil)	A1 or B1	Connect ground to metallic water pipe or to power service conduit or ground wire
	A2 or B2	Connect ground to metallic water pipe and bond power to water pipe†
	C	Connect ground to metallic water pipe
Metallic interior water pipe not acceptable because of plastic entrance, insulating joints, etc	A2	Connect ground to MGN ground rod, power service conduit, or ground wire. Bond with No. 6 station ground wire to metallic water pipe†
	B2	Connect ground to best available ground or telephone ground rod. Bond to power ground rod, power service conduit, or ground wire, and interior metallic water pipe with No. 6 station ground wire†
	C	Connect ground to best available ground or ground rod; bond to interior metallic water pipe using No. 14 ground wire
No metallic water pipe or not possible to connect to metallic water pipe	A2	Connect ground to MGN power ground rod, power service conduit, or ground wire
	B2	Connect ground to telephone ground rod or bond with No. 6 station ground wire to power ground rod, power service conduit, or ground wire
	C	Connect ground to best available ground

- * A1—Multiground neutral (MGN) system on acceptable metallic water pipe
 A2—MGN system on ground rod (concrete encased electrode, metal structure)
 B1—Non-MGN system on acceptable metallic water pipe
 B2—Non-MGN system on ground rod (concrete encased electrode, metal structure)
 C —Power not grounded at premises

† Bond to water pipe only if power is not already bonded

[52] Install a 14-gauge ground wire to an approved local ground. See TABLE C

[53] Run ground lead through cable opening in cabinet 1

[54] Follow cable run to pre-wired terminal and connect ground wire to 2A ground strip lug [FIG. 13]

[55] Tie ground lead to existing cable form

AND

Pre-wired cross-connect terminal ground installed

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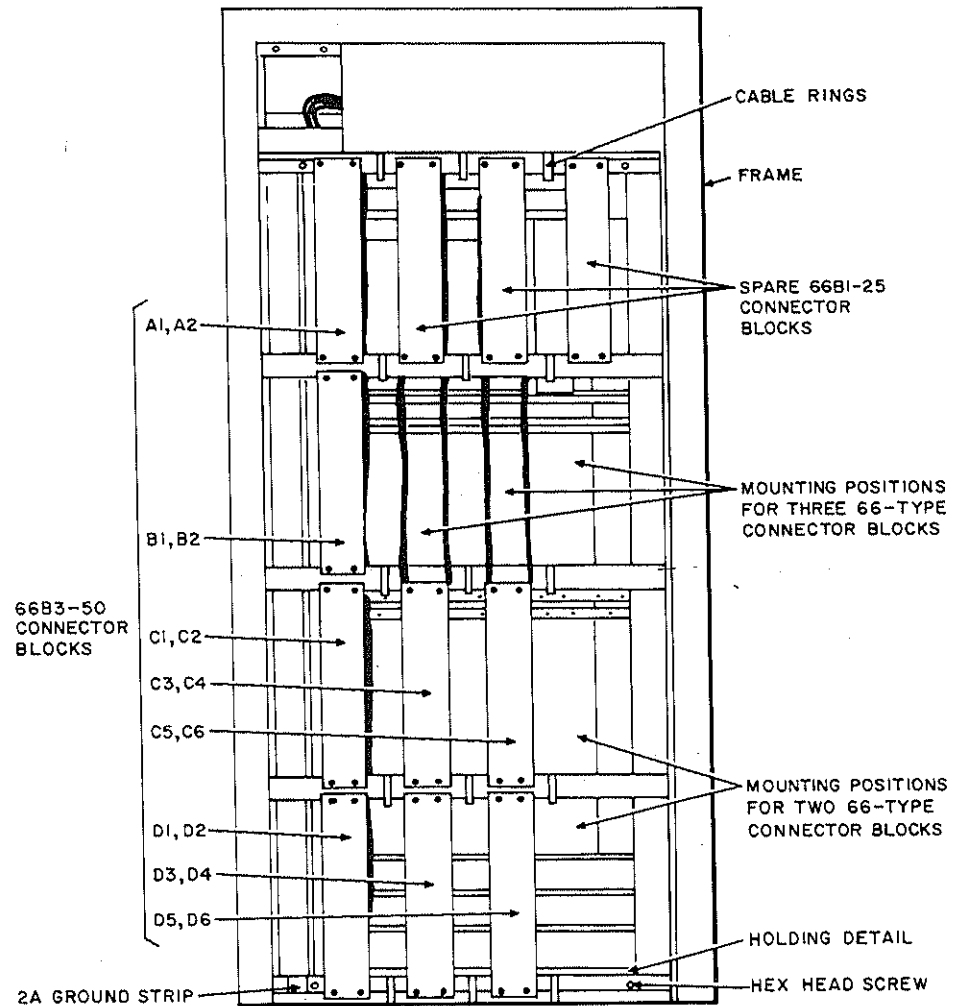
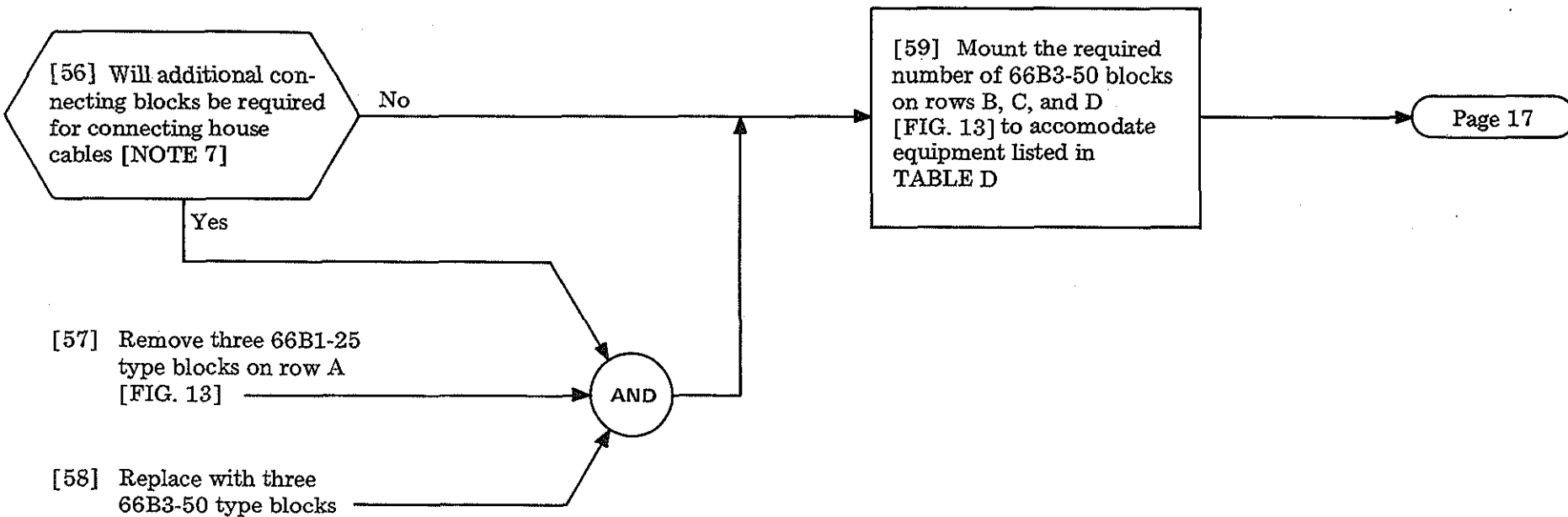


FIG. 13

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NOTE 7

The preinstalled connecting blocks will accommodate cable combinations totaling 75 pairs. If the house cables exceed a total of 75 pairs, additional blocks will be required

TABLE D	
EXTERNALLY MOUNTED EQUIPMENT	REQUIRED NUMBER OF 66B3-50 BLOCKS
3-Type attendant console	1 each
4-Type attendant console	2 each
6-Button keyset	1
556A Switchboard	4

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[60] Remove screws for mounting ground straps between each cabinet [FIG. 14]

[61] Clean surface around screw holes for good electrical bond (shiny metal)

[62] Replace ground straps

[63] Install sound proofing [FIG. 15], if required

[64] Install envelope holder, if required, to store CDs, SDs, etc, [FIG. 15]

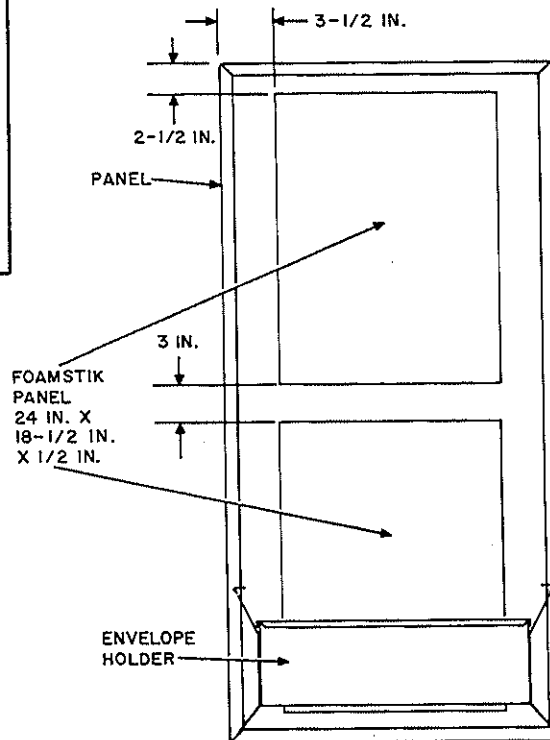
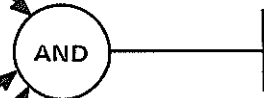
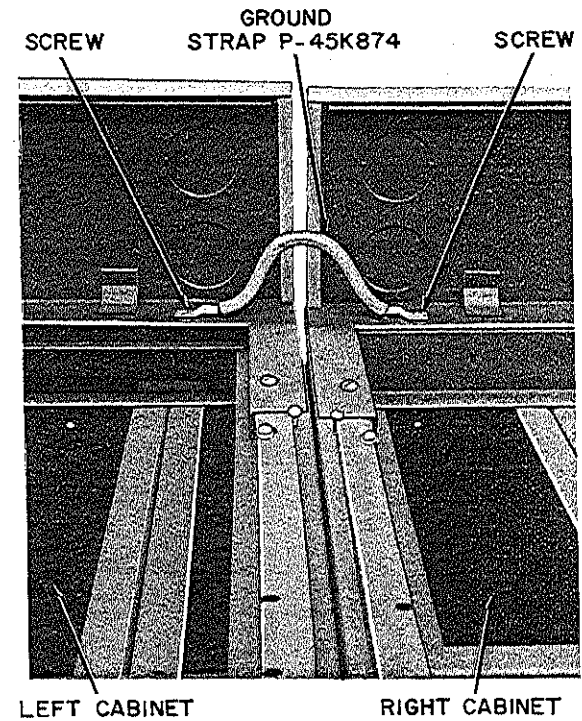
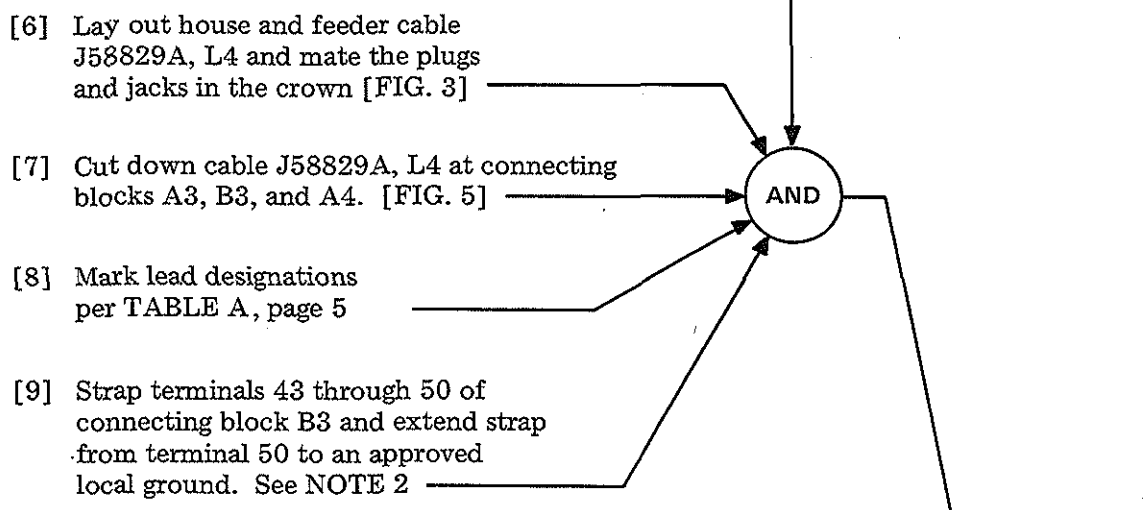
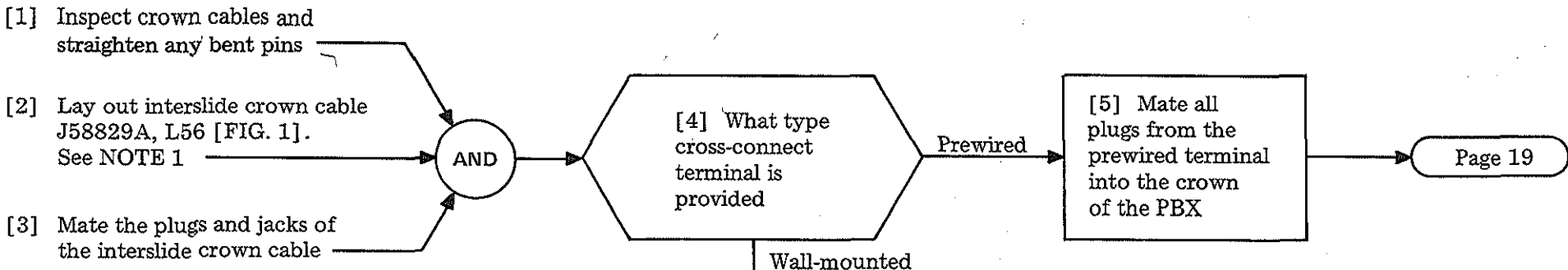


FIG. 15



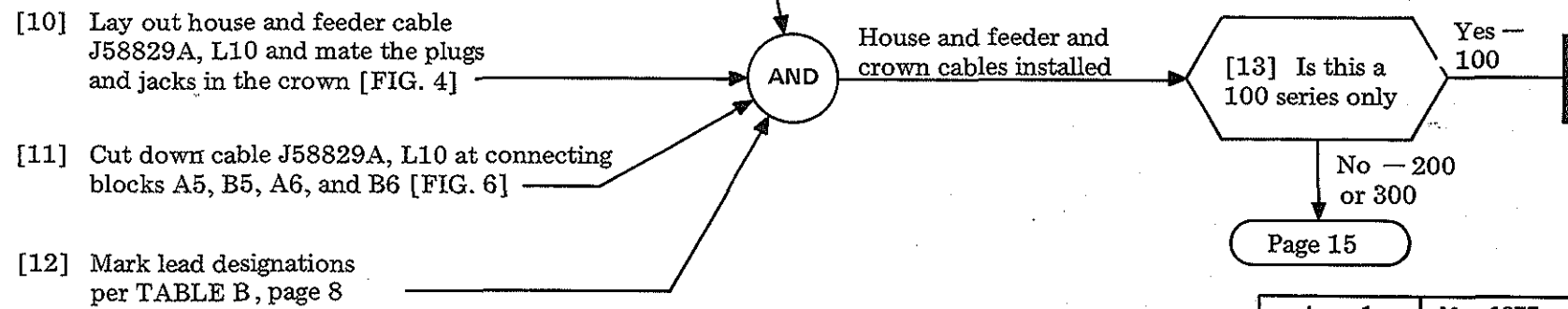
CABINETS WITH COVER TOP ASSEMBLY REMOVED

FIG. 14



NOTES

1. Some PBXs (hinged cover models) use a List 30 cable instead of List 56. See FIG. 2 for plan view of the List 30 cable
2. Use 18 gauge copper, or equivalent, for strap



INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

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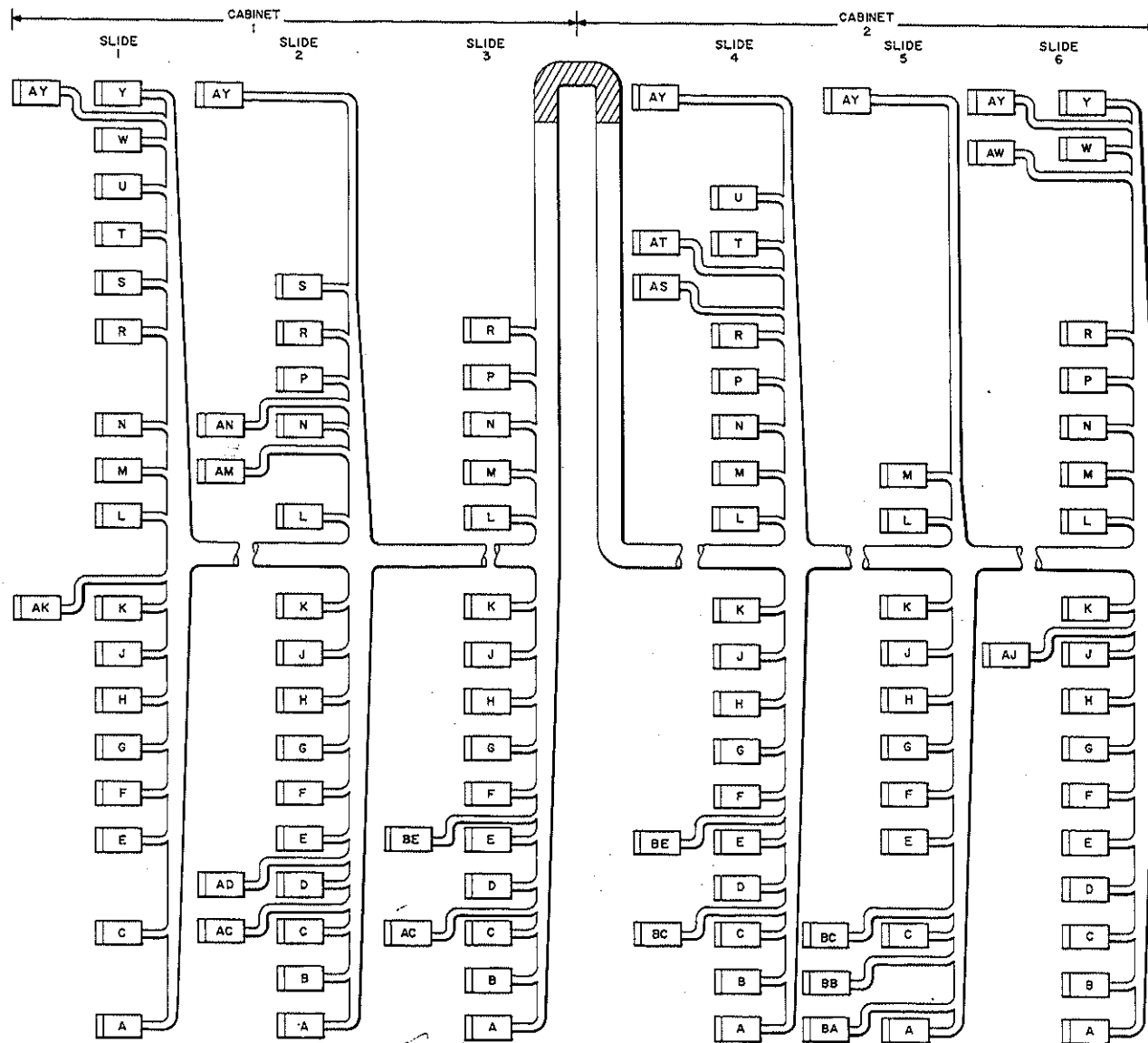


FIG. 1

INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

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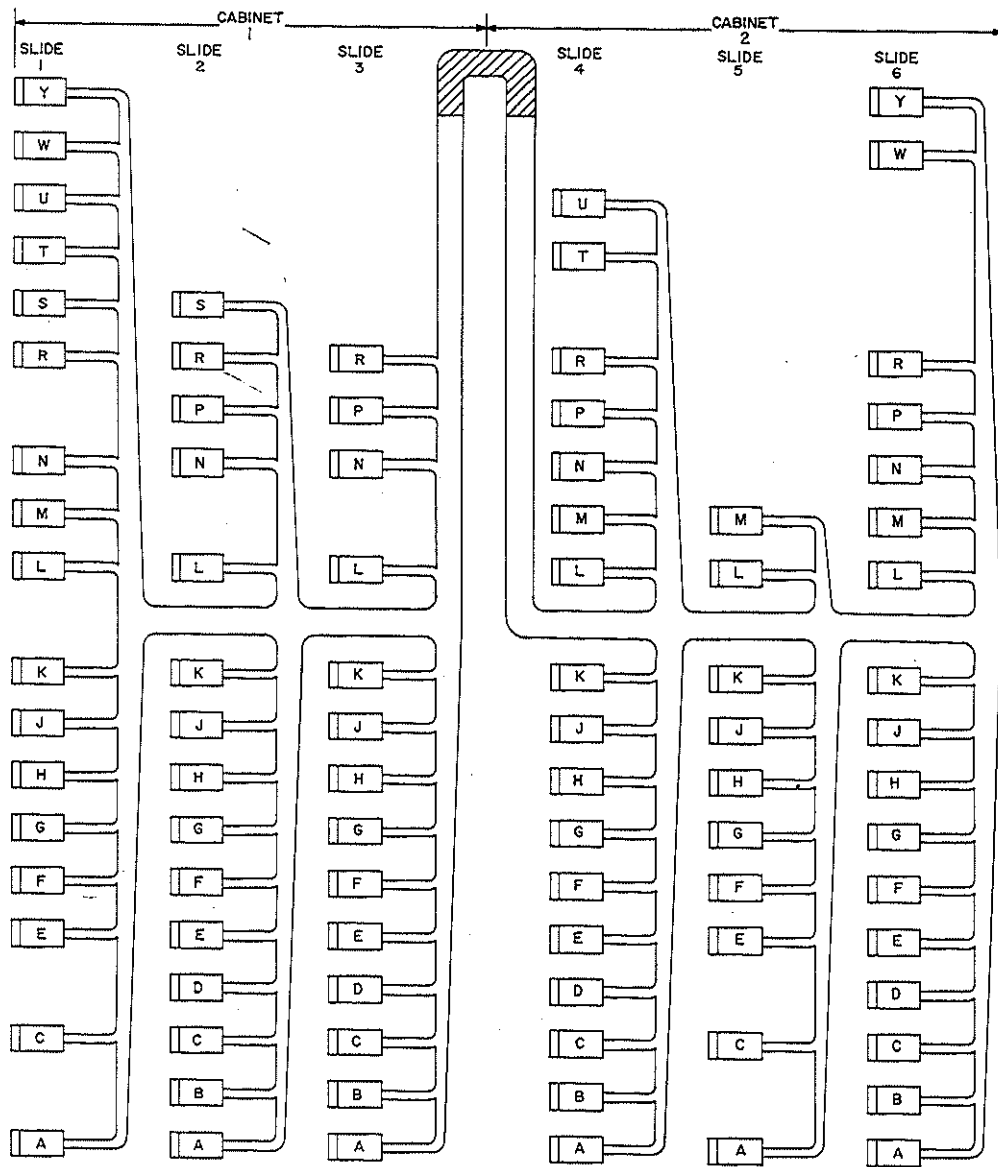


FIG. 2

INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

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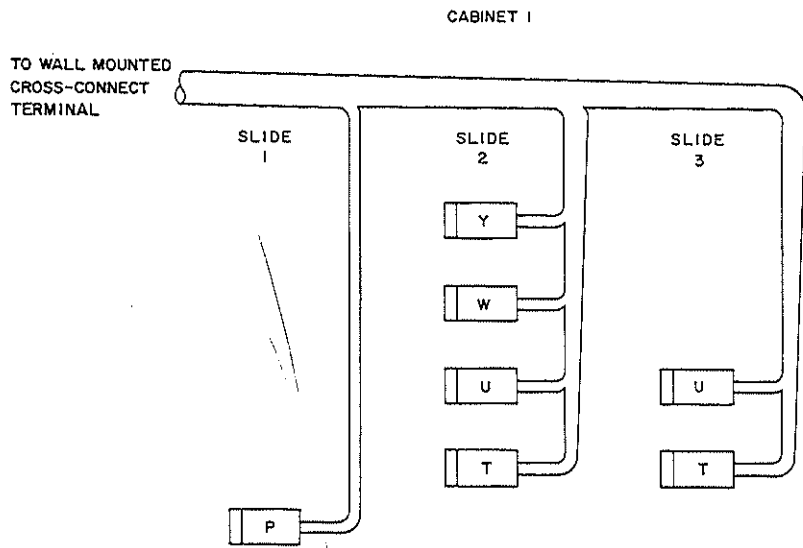


FIG. 3

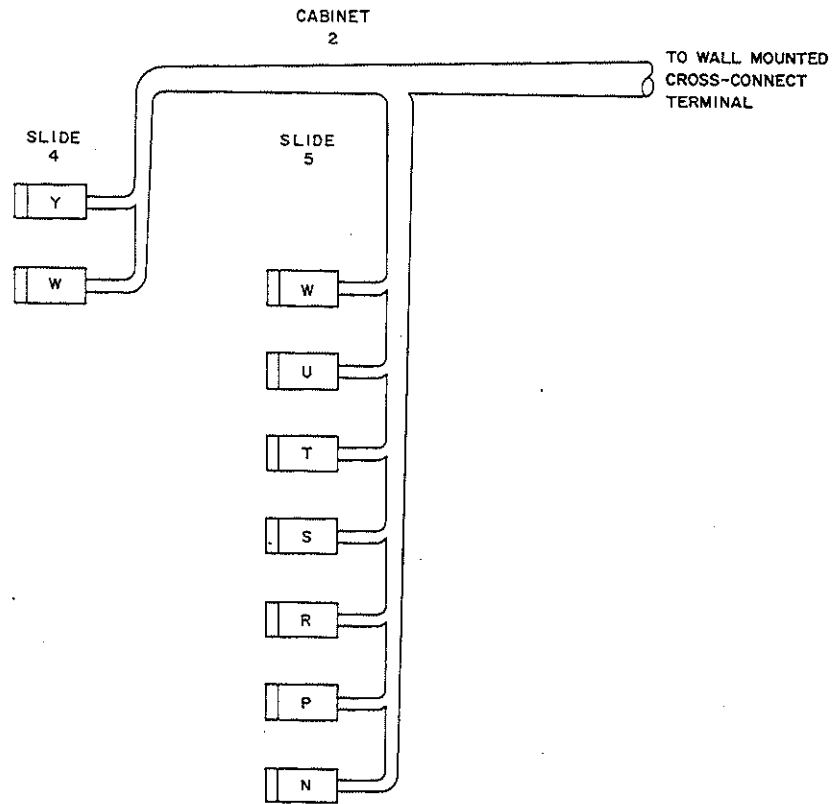


FIG. 4

INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

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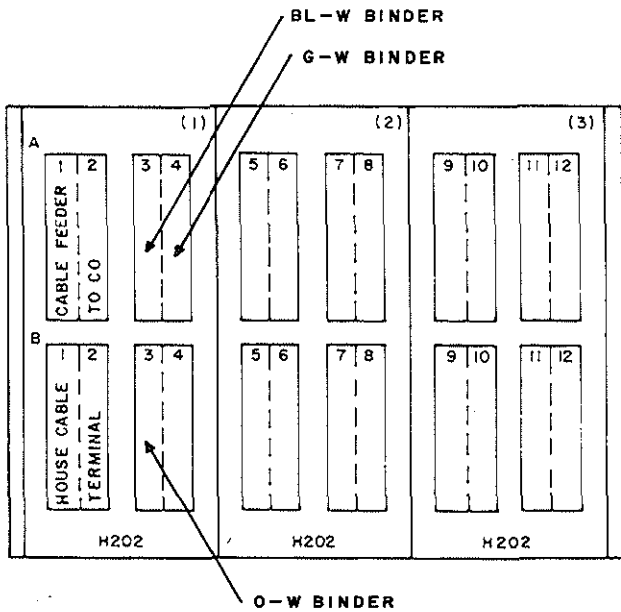


FIG. 5

INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

TABLE A				
75-PAIR HOUSE AND FEEDER CABLE J58829A, L4				
CONN. BLOCK TERM. NO	COLOR	LEAD DESIG	USE	
BL-W BINDER - CONNECTING BLOCK A3	T1	W-BL	STA 2 0	To Stations 20 - 29 and Cord Switchboard when provided or Tie Trunks 80 - 89
	R1	BL-W		
	T2	W-O		
	R2	O-W	2 5	
	T3	W-G		
	R3	G-W	3 0	
	T4	W-BR		
	R4	BR-W		
	T5	W-S		
	R5	S-W		
	T6	R-BL		
	R6	BL-R		
	T7	R-O		
	R7	O-R		
	T8	R-G	To Stations 30 - 34 and Cord Switchboard when provided	
R8	G-R			
T9	R-BR			
R9	BR-R			
T10	R-S			
R10	S-R			
T11	BK-BL			
R11	BL-BK			
T12	BK-O			
R12	O-BK			
T13	BK-G			
R13	G-BK			
T14	BK-BR			
R14	BR-BK			
T15	BK-S			
R15	S-BK			

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TABLE A (Cont)

CONN. BLOCK TERM. NO.		COLOR	LEAD DESIG	USE		
BL - W BINDER - CONNECTING BLOCK A3 (Cont)	T16	Y-BL	STA 3	To Stations 35 - 44 and Cord Switchboard when provided		
	R16	BL-Y	5			
	T17	Y-O				
	R17	O-Y				
	T18	Y-G				
	R18	G-Y				
	T19	Y-BR				
	R19	BR-Y				
	T20	Y-S				
	R20	S-Y				
	T21	V-BL	4			
	R21	BL-V	0			
	T22	V-O				
	R22	O-V				
	T23	V-G				
	R23	G-V				
	T24	V-BR				
	R24	BR-V				
	T25	V-S				
	R25	S-V				
	O - W BINDER - CONN BLOCK B3	T1	W-BL		4	To Stations 45 - 49 and Cord Switchboard when provided
		R1	BL-W		5	
		T2	W-O			
		R2	O-W			
		T3	W-G			
R3		G-W				
T4		W-BR				
R4		BR-W				
T5		W-S				
R5		S-W				
O - W BINDER - CONNECTING BLOCK B3 (Cont)		T6	R-BL	STA 5	To Stations 50 - 59 and Cord Swbd when provided	
		R6	BL-R	0		
		T7	R-O			
		R7	O-R			
		T8	R-G			
	R8	G-R				
	T9	R-BR				
	R9	BR-R				
	T10	R-S				
	R10	S-R				
	T11	BK-BL	5			
	R11	BL-BK	5			
	T12	BK-O				
	R12	O-BK				
	T13	BK-G				
	R13	G-BK				
	T14	BK-BR				
	R14	BR-BK				
	T15	BK-S				
	R15	S-BK				
T16	Y-BL	RG	556 Swbd			
R16	BL-Y	CR				
T17	Y-O	A				
R17	O-Y	M1				
T18	Y-G	WCT				
R18	G-Y	WCR				
T19	Y-BR					
R19	BR-Y	M2				
T20	Y-S	TRLA				
R20	S-Y	M3				
				608 Misc Ckt		
				Cord Swbd		
				CO alarm when reqd		
				Spare		
				Cord Swbd		
			Atnd Alarm			
			Cord Swbd			

INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

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TABLE A (Cont)

O - W BINDER - CONN BLOCK B3 (Cont)		CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE
		T21	V-BL	TRLB	Atnd Alarm
R21	BL-V	API	Spare		
T22	V-O				
R22	O-V				
T23	V-G				
R23	G-V		Apparatus ground		
T24	V-BR				
R24	BR-V				
T25	V-S				
R25	S-V	AP8			
G - W BINDER - CONNECTING BLOCK A4	T1	W-BL	TR10	External Traffic Register	
	R1	BL-W	TR9		
	T2	W-O	TR8	Spare	
	R2	O-W	T	Sta Cont Conf - *	
	T3	W-G	T(A)	Atnd Cont Conf - **	
	R3	G-W	R	Sta Cont Conf - *	
			R(A)	Atnd Cont Conf - **	
			SL MON 1	Sta Cont Conf - *	
	T4	W-BR	TL(A)	Atnd Cont Conf - **	
			MON 2	Sta Cont Conf - *	
	R4	BR-W	SL(A)	Atnd Cont Conf - **	
			ACA (B)	Atnd Cont Conf - **	
	T5	W-S	SL1(B)	Atnd Cont Conf - **	
	R5	S-W	S	Sta Cont Conf - *	
	T6	R-BL	TL1(B)	Atnd Cont Conf - **	
			ACA(A)	Atnd Cont Conf - **	
			TR7	External Traffic Register	
	R6	BL-R			
	T7	R-O			
	R7	O-R			
	T8	R-G			
	R8	G-R	TR4	External Traffic Register	
	T9	R-BR	TR3		
	R9	BR-R	TR2		
	T10	R-S	TR1		
R10	S-R	TR BAT.			

G - W BINDER - CONNECTING BLOCK A4 (Cont)		CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE				
		T11	BK-BL	KRA0 SG2 SG3 KRA1 SG2 SG3	KP (Mfr disc)				
R11	BL-BK								
T12	BK-O								
R12	O-BK								
T13	BK-G								
R13	G-BK	KRA0	KP (Mfr disc)						
						T14	BK-BR		
						R14	BR-BK		
						T15	BK-S		
						R15	S-BK		
T16	Y-BL	KRA0 SG2 SG3 KRA1 SG2 SG3	1st Telephone Console ***						
						R16	BL-Y		
						T17	Y-O		
						R17	O-Y		
T18	Y-G								
R18	G-Y			KRA0 SG2 SG3 KRA1 SG2 SG3	2nd Telephone Console				
						T19	Y-BR		
						R19	BR-Y		
						T20	Y-S		
						R20	S-Y		
T21	V-BL					KRA0 SG2 SG3 KRA1 SG2 SG3	Spares		
								R21	BL-V
								T22	V-O
								R22	O-V
T23	V-G								
R23	G-V	KRA0 SG2 SG3 KRA1 SG2 SG3	Spares						
								T24	V-BR
								R24	BR-V
								T25	V-S
								R25	S-V

* 608 Swbd
 ** Attendant cordless position
 *** When 3-type console is used, strap connecting block A4 terminals as follows:
 R18 (SG2) to T19 (SG3)
 T20 (SG2) to R20 (SG3)

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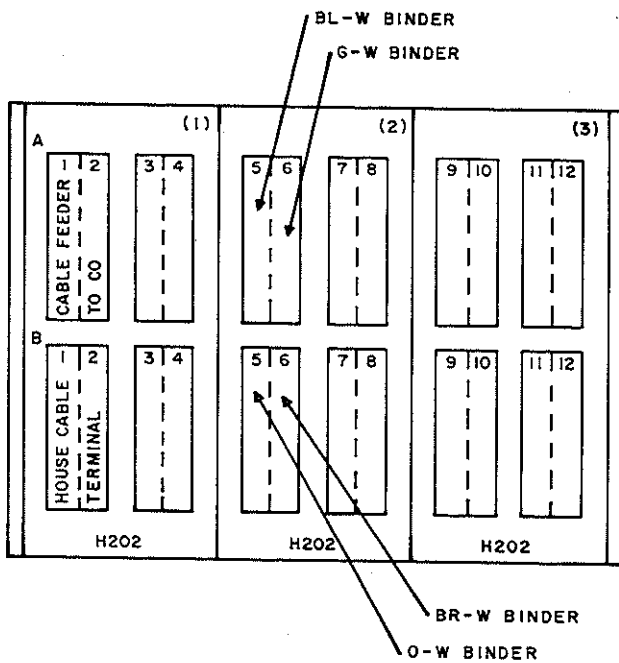


FIG. 6

TABLE B			
100-PAIR HOUSE AND FEEDER CABLE J58829A, L10			
CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE
BL-W BINDER - CONNECTING BLOCK A5	T1	W-BL	STA 6 0
	R1	BL-W	
	T2	W-O	
	R2	O-W	6 5
	T3	W-G	
	R3	G-W	
	T4	W-BR	
	R4	BR-W	
	T5	W-S	7 0
	R5	S-W	
	T6	R-BL	
	R6	BL-R	
	T7	R-O	
	R7	O-R	
	T8	R-G	
R8	G-R	0	
T9	R-BR		
R9	BR-R		
T10	R-S		
R10	S-R		
T11	BK-BL		
R11	BL-BK		
T12	BK-O		
R12	O-BK		
T13	BK-G		
R13	G-BK	0	
T14	BK-BR		
R14	BR-BK		
T15	BK-S	0	
R15	S-BK		

To Stations 60 - 74 and Cord Switchboard when provided

TABLE B (Cont)

TABLE B (Cont)					
	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG		USE
BL - W BINDER -- CONNECTING BLOCK A5 (Cont)	T16	Y-BL	STA 7		To Stations 75 - 79 and Cord Switchboard when provided
	R16	BL-Y			
	T17	Y-O			
	R17	O-Y			
	T18	Y-G			
	R18	G-Y			
	T19	Y-BR			
	R19	BR-Y			
	T20	Y-S			
	R20	S-Y			
	T21	V-BL	T		
	R21	BL-V	R		
	T22	V-O	TL1 or TL		
	R22	O-V	SL1 or BL		
T23	V-G	TL2			
R23	G-V	SL2	A	Cord Switchboard	
T24	V-BR	ACA	T		
R24	BR-V	SL3	N	1st Telephone Console ^(TL) or Cord Swbd ^(TL)	
T25	V-S	ON or SL	D	^(BL)	
R25	S-V	A		2nd Telephone Console	
O - W BINDER - CONN BLOCK B5	T1	W-BL	T	A	
	R1	BL-W	R	T	Cord Switchboard
	T2	W-O	TL1 or TL	N	
	R2	O-W	SL1 or BL	D	1st Telephone Console ^(TL) or Cord Swbd ^(TL)
	T3	W-G	TL2		^(SL) ^(BL)
	R3	G-W	SL2	T	2nd Telephone Console
	T4	W-BR	ACA	R	
	R4	BR-W	SL3	K	1st and 2nd Telephone Consoles and Key Telephone Set
	T5	W-S	ON or SL		Key Telephone Set
	R5	S-W	A	1	556A Cord Switchboard ^(ON) ^(A) 608 Cord Switchboard ^(SL) ^(A)

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INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

TABLE B (Cont)					
O-W BINDER - CONNECTING BLOCK B5 (Cont)	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE	
	T6	R-BL	T	A T N D	Cord Switchboard
	R6	BL-R	R		
	T7	R-O	TL1 or TL		
	R7	O-R	SL1 or BL		
	T8	R-G	TL2		
	R8	G-R	SL2	T R K 2	2nd Telephone Console
	T9	R-BR	ACA		
	R9	BR-R	SL3		
	T10	R-S	ON or SL		
	R10	S-R	A		
	T11	BK-BL	TT	1st Telephone Console or Key Telephone Set	
	R11	BL-BK	TR		
	T12	BK-O	ACG		
	R12	O-BK	NTG		
	T13	BK-G	AT1		
	R13	G-BK	BT1	1st Telephone Console	
	T14	BK-BR	AT2		
	R14	BR-BK	BT2		
	T15	BK-S	BZ		
	R15	S-BK	NS*		
	T16	Y-BL	H	556A Switchboard or Preceding Telephone Console	
R16	BL-Y	RC			
T17	Y-O	ARB1			
R17	O-Y	ARB2			
T18	Y-G	STT			
R18	G-Y	STR	RDT Trunk Auxiliary Ringers, when required for Trunk Equipments 3, 4, 8, and 9		
T19	Y-BR	STT			
R19	BR-Y	STR			
T20	Y-S	STT			
R20	S-Y	STR			
T21	V-BL	STT	RDT Trunk Auxiliary Ringers, when required for Trunk Equipments 3, 4, 8, and 9		
R21	BL-V	STR			

* If night service key (NS) is not provided, strap terminal R15 (NS lead) to connecting block terminal R25 (apparatus ground)

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TABLE B (Cont)

TABLE B (Cont)						
O - W BINDER - CONN BLOCK B5 (Cont)	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE		
	O - W BINDER - CONN BLOCK B5 (Cont)	T22	V-O	TCW1	Externally Mounted Signaling Equipment for Remote Trunk Answering	
R22		O-V	TCW2			
T23		V-G	TCW3			
R23		G-V	TCW4	1st Telephone Console or Key Tel Set		
T24		V-BR	RA			
R24		BR-V	BZ			
T25		V-S	NA			
R25		S-V				
G - W BINDER - CONNECTING BLOCK A6		T1	W-BL	T	C O	To Central Office
		R1	BL-W	R		
	T2	W-O	TL1	T R K	1st Telephone Console	
	R2	O-W	SL1			
	T3	W-G	TL2			
	R3	G-W	SL2	O	1st and 2nd Telephone Consoles	
	T4	W-BR	ACA			
	R4	BR-W	L			
	T5	W-S	T			
	R5	S-W	R	C O	To Central Office	
	T6	R-BL	TL1			
	R6	BL-R	SL1	T R K	1st Telephone Console	
	T7	R-O	TL2			
	R7	O-R	SL2			
	T8	R-G	ACA	1	Key Telephone Set	
	R8	G-R	L			
	T9	R-BR	T	C O	To Central Office	
	R9	BR-R	R			
	T10	R-S	TL1			
	R10	S-R	SL1			
	T11	BK-BL	TL2	T R K	1st Telephone Console	
	R11	BL-BK	SL2			
	T12	BK-O	ACA			
	R12	O-BK	L			
			2			2nd Telephone Console
				1st and 2nd Telephone Consoles		
				Key Telephone Set		

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TABLE B (Cont)

G-W BINDER - CONNECTING BLOCK A6 (Cont)	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG		USE
	T13	BK-G	T	C	O
R13	G-BK	R	T R K	1st Telephone Console	
T14	BK-BR	TL1		2nd Telephone Console	
R14	BR-BK	SL1		1st and 2nd Telephone Consoles	
T15	BK-S	TL2		3	Key Telephone Set
R15	S-BK	SL2		C O	To Central Office or Ringdown Tie Trunk
T16	Y-BL	ACA	1st Telephone Console		
R16	BL-Y	L	T R K	2nd Telephone Console	
T17	Y-O	T		1st and 2nd Telephone Consoles	
R17	O-Y	R		4	Key Telephone Set
T18	Y-G	TL1		C O	To Central Office
R18	G-Y	SL1			1st Telephone Console
T19	Y-BR	TL2	T R K	2nd Telephone Console	
R19	BR-Y	SL2		1st and 2nd Telephone Consoles	
T20	Y-S	ACA		5	Key Telephone Set
R20	S-Y	L			To Central Office
T21	V-BL	T		C O	To Central Office
R21	BL-V	R			
T22	V-O	TL1	T R K	1st Telephone Console	
R22	O-V	SL1		2nd Telephone Console	
T23	V-G	TL2		1st and 2nd Telephone Consoles	
R23	G-V	SL2		5	Key Telephone Set
T24	V-BR	ACA			To Central Office
R24	BR-V	L	5	To Central Office	
T25	V-S	T			
R25	S-V	R			

TABLE B (Cont)

TABLE B (Cont)					
BR - W BINDER - CONNECTING BLOCK B6	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE	
	T1	W-BL	TL1	C O	1st Telephone Console
	R1	BL-W	SL1		
	T2	W-O	TL2		
	R2	O-W	SL2	T R K	2nd Telephone Console
	T3	W-G	ACA		
	R3	G-W	L	6	Key Telephone Set
	T4	W-BR	T		
	R4	BR-W	R		
	T5	W-S	TL1		
	R5	S-W	SL1		
	T6	R-BL	TL2	C O	To Central Office
	R6	BL-R	SL2		
	T7	R-O	ACA		
	R7	O-R	L	T R K	1st Telephone Console
T8	R-G	T			
R8	G-R	R	7	Key Telephone Set	
T9	R-BR	TL1			
R9	BR-R	SL1			
T10	R-S	TL2	C O	To Central Office or Ringdown Tie Trunk	
R10	S-R	SL2			
T11	BK-BL	ACA	T R K	2nd Telephone Console	
R11	BL-BK	L			
T12	BK-O	T			
R12	O-BK	R	8	Key Telephone Set	
T13	BK-G	TL1			
R13	G-BK	SL1	C O	To Central Office or Ringdown Tie Trunk	
T14	BK-BR	TL2			
R14	BR-BK	SL2			
T15	BK-S	ACA			
R15	S-BK	L			
			T R K	1st Telephone Console	
			9	Key Telephone Set	

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TABLE B (Cont)

BR-W BINDER - CONNECTING BLOCK B6 (Cont)	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE
	T16 R16 T17 R17 T18	Y-BL BL-Y Y-O O-Y Y-G		Spares
	R18 T19 R19 T20 R20	G-Y Y-BR BR-Y Y-S S-Y		
	T21 R21 T22 R22 T23	V-BL BL-V V-O O-V V-G		
	R23 T24 R24 T25 R25	G-V V-BR BR-V V-S S-V		

[14] Lay out supplementary house and feeder cable J58829AA, L4 [FIG. 7] and mate the plugs and jacks in the crown

[15] Cut down cable J58829AA, L4 at connecting blocks A7, B7, A8, and B8 [FIG. 8]

[16] Mark lead designations per TABLE C, page 16

100-pair supplementary house and feeder cable installed



[17] Is this a 300-series system

Yes

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No — 200-series cables installed

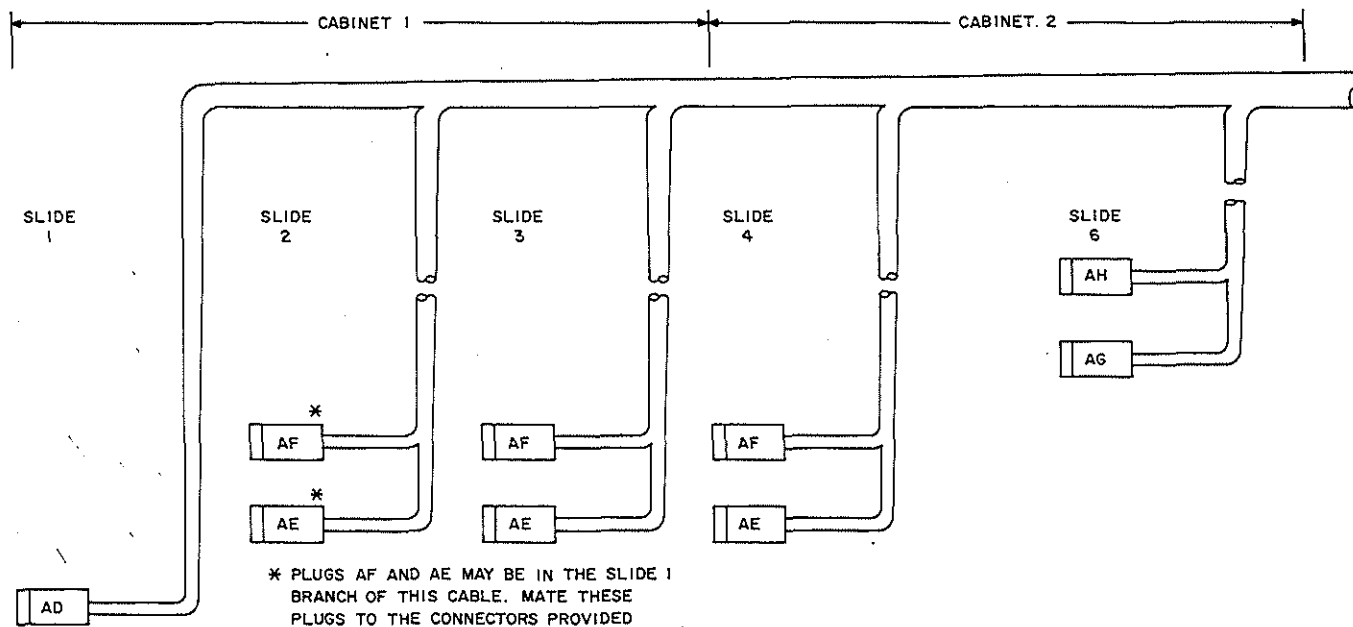


FIG. 7

INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

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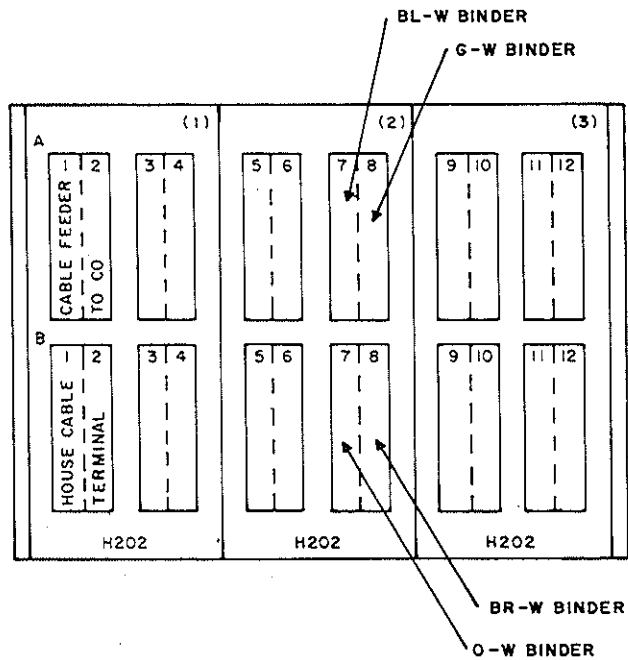


FIG. 8

TABLE C			
100-PAIR SUPPLEMENTARY HOUSE AND FEEDER CABLE J58829AA, L4			
CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE
T1	W-BL	S	Make-busy key and lamp for station (s) arranged for single-digit dialing
R1	BL-W	S1	
T2	W-O	L2 BAT.	
R2	O-W	L2 GRD	
T3	W-GR	S	
R3	GR-W	S1	Spare
T4	W-BR	L3 BAT.	
R4	BR-W	L3 GRD	
T5	W-S		
R5	S-W		
T6	R-BL		Spare
R6	BL-R		
T7	R-O		
R7	O-R		
T8	R-GR		
R8	GR-R		Busy-lamp leads to 4-type telephone console(s)
T9	R-BR		
R9	BR-R		
T10	R-S		
R10	S-R		
T11	BK-BL	BL20	
R11	BL-BK	BL21	
T12	BK-O	BL22	
R12	O-BK	BL23	
T13	BK-GR	BL24	
R13	GR-BK	BL25	
T14	BK-BR	BL26	
R14	BR-BK	BL27	
T15	BK-S	BL28	
R15	S-BK	BL29	
T16	Y-BL	BL30	
R16	BL-Y	BL31	
T17	Y-O	BL32	
R17	O-Y	BL33	
T18	Y-GR	BL34	
R18	GR-Y	BL35	
T19	Y-BR	BL36	
R19	BR-Y	BL37	
T20	Y-S	BL38	
R20	S-Y	BL39	

TABLE C (Cont)

		CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE			CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE
BL-W BINDER - CONN BLOCK A7 (Cont)	T21	V-BL	S	Make-busy key and lamp for station(s) arranged for single-digit dialing	BL-W BINDER - CONN BLOCK A7 (Cont)	T16	Y-BL	S	Make-busy key and lamp for station(s) arranged for single-digit dialing		
	R21	BL-V	S1			R16	BL-Y	S1			
	T22	V-O	L4 BAT.			T17	Y-O	L6 BAT.			
	R22	O-V	L4 GRD			R17	O-Y	L6 GRD			
	T23	V-GR	S			T18	Y-GR	S			
	R23	GR-V	S1	Spare		R18	GR-Y	S1	Spare		
	T24	V-BR	L5 BAT.			T19	Y-BR	L7 BAT.			
	R24	BR-V	L5 GRD			R19	BR-Y	L7 GRD			
	T25	V-S				T20	Y-S				
	R25	S-V				R20	S-Y				
O-W BINDER - CONNECTING BLOCK B7	T1	W-BL	Spare	O-W BINDER - CONNECTING BLOCK B7	T21	V-BL	Spare				
	R1	BL-W			R21	BL-V					
	T2	W-O			T22	V-O					
	R2	O-W			R22	O-V					
	T3	W-GR			T23	V-GR					
	R3	GR-W	Busy lamp leads to 4-type telephone console(s)		R23	GR-V	Busy lamp leads to 4-type telephone console(s)				
	T4	W-BR			T24	V-BR					
	R4	BR-W			R24	BR-V					
	T5	W-S			T25	V-S					
	R5	S-W			R25	S-V					
	T6	R-BL	BL40		O-W BINDER - CONNECTING BLOCK B7	T1	W-BL	BL60	O-W BINDER - CONNECTING BLOCK B7		
	R6	BL-R	BL41			R1	BL-W	BL61			
	T7	R-O	BL42			T2	W-O	BL62			
	R7	O-R	BL43			R2	O-W	BL63			
	T8	R-GR	BL44			T3	W-GR	BL64			
	R8	GR-R	BL45			R3	GR-W	BL65			
	T9	R-BR	BL46			T4	W-BR	BL66			
	R9	BR-R	BL47			R4	BR-W	BL67			
	T10	R-S	BL48			T5	W-S	BL68			
	R10	S-R	BL49			T5	S-W	BL69			
	T11	BK-BL	BL50			G-W BINDER - CONNECTING BLOCK A8	T6	R-BL		BL70	G-W BINDER - CONNECTING BLOCK A8
	R11	BL-BK	BL51				R6	BL-R		BL71	
	T12	BK-O	BL52				T7	R-O		BL72	
	R12	O-BK	BL53				R7	O-R		BL73	
	T13	BK-GR	BL54				T8	R-GR		BL74	
R13	GR-BK	BL55	R8	GR-R	BL75						
T14	BK-BR	BL56	T9	R-BR	BL76						
R14	BR-BK	BL57	R9	BR-R	BL77						
T15	BK-S	BL58	T10	R-S	BL78						
R15	S-BK	BL59	R10	S-R	BL79						

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TABLE C (Cont)

		CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE			CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE
G-W BINDER - CONNECTING BLOCK A8 (Cont)		T11	BK-BL	T2	DSS leads to first 4-type telephone console	BR-W BINDER - CONNECTING BLOCK B8 (Cont)		T6	R-BL	B20	Lamp battery leads to first 4-type telephone console
		R11	BL-BK	T3				R6	BL-R	B30	
		T12	BK-O	T4				T7	R-O	B40	
		R12	O-BK	T5				R7	O-R	B50	
		T13	BK-GR	T6				T8	R-GR	B60	
		R13	GR-BK	T7				R8	GR-R	B70	
		T14	BK-BR	T8				T9	R-BR	B80	
		R14	BR-BK	U0				R9	BR-R		
		T15	BK-S	U1				T10	R-S		
		R15	S-BK	U2				R10	S-R		
		T16	Y-BL	U3				T11	BK-BL	B20	
		R16	BL-Y	U4				R11	BL-BK	B30	
		T17	Y-O	U5				T12	BK-O	B40	
		R17	O-Y	U6				R12	O-BK	B50	
		T18	Y-GR	U7				T13	BK-GR	B60	
		R18	GR-Y	U8				R13	GR-BK	B70	
		T19	Y-BR	U9				T14	BK-BR	B80	
		R19	BR-Y	H1				R14	BR-BK		
		T20	Y-S	SG3			T15	BK-S			
		R20	S-Y	SG2			R15	S-BK			
		T21	V-BL	T2	DSS leads to second 4-type telephone console			T16	Y-BL		
		R21	BL-V	T3				R16	BL-Y		
		T22	V-O	T4				T17	Y-O		
		R22	O-V	T5				R17	O-Y		
		T23	V-GR	T6				T18	Y-GR		
	R23	GR-V	T7			R18	GR-Y				
	T24	V-BR	T8		T19	Y-BR					
	R24	BR-V	U0		R19	BR-Y					
	T25	V-S	U1		T20	Y-S					
	R25	S-V	U2		R20	S-Y					
BR-W BINDER - CONN BLOCK B8		T1	W-BL	U3	DSS leads to second 4-type telephone console		T21	V-BL			
		R1	BL-W	U4			R21	BL-V			
		T2	W-O	U5			T22	V-O			
		R2	O-W	U6			R22	O-V			
		T3	W-GR	U7			T23	V-GR			
		R3	GR-W	U8			R23	GR-V			
		T4	W-BR	U9			T24	V-BR			
		R4	BR-W	H1			R24	BR-V			
		T5	W-S	SG3			T25	V-S			
		R5	S-W	SG2			R25	S-V			

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[18] Lay out supplementary house
and feeder cable J58829AH, L2
[FIG. 9] and mate plugs and
jacks in the crown

[19] Lay out supplementary house
and feeder cable J58829AG, L4
[FIG. 10] and mate plugs and
jacks in the crown



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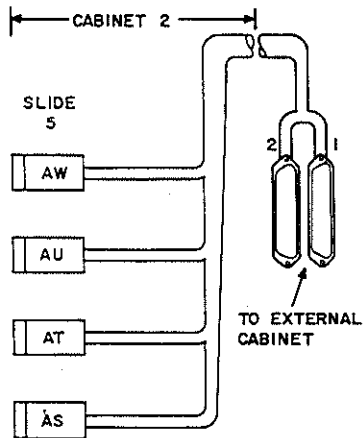


FIG. 9

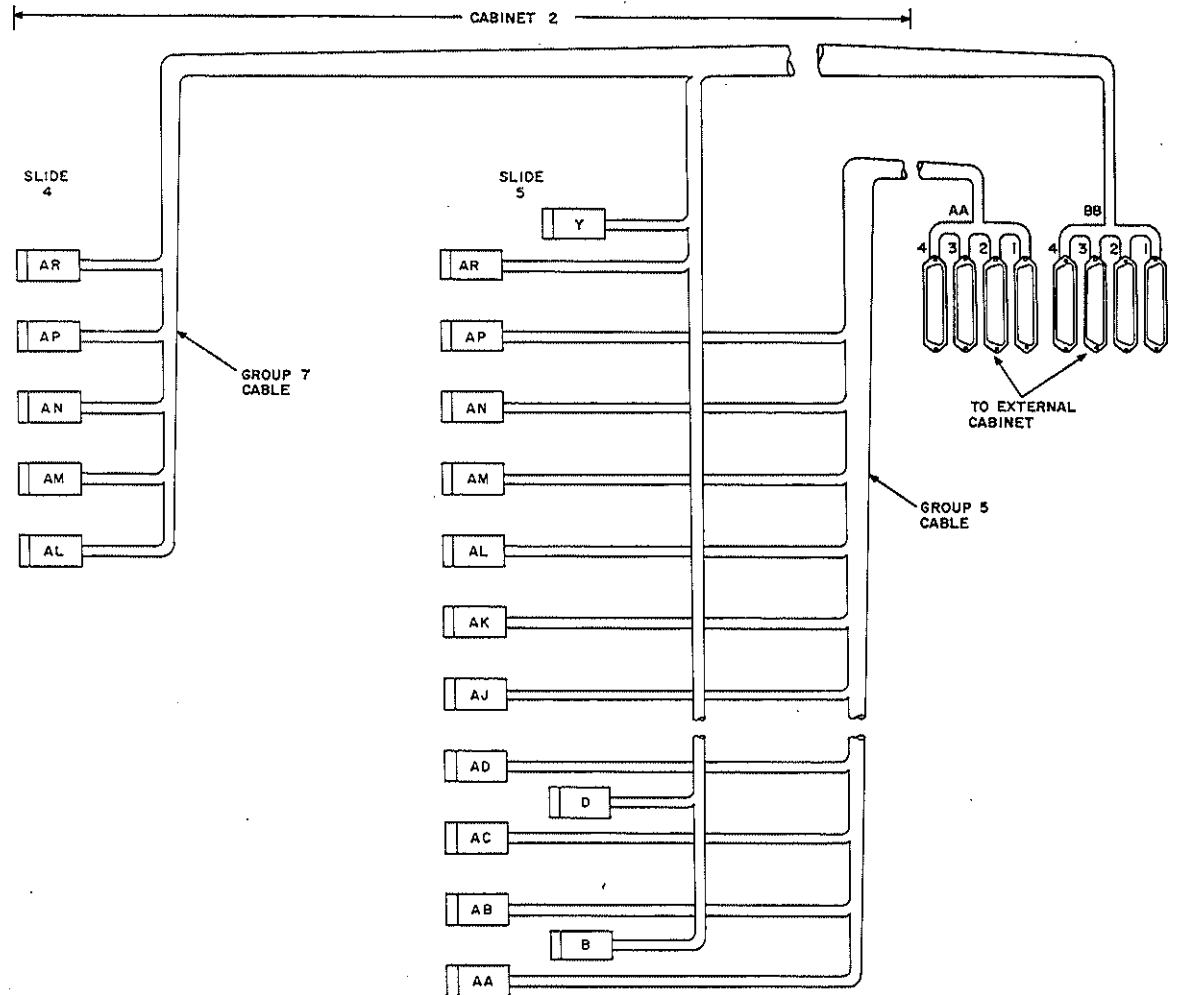


FIG. 10

INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

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[1] Lay out A50B connecting cable from 3-type console to the cross-connect terminal

[2] Mate D100F mounting cord with console connectors IV and V

[3] Mate D100F mounting cord with A50B cable plugs/jacks 1 and 2

AND

[4] What type cross-connect terminal is provided

Prewired

Wall-mounted

[4] Cut down A50B cable at connecting blocks B3 and B4

[5] Mark lead designations per TABLE A

[6] Install cross-connections per TABLE A

First 3-type console installed

AND

[7] Cut down A50B cable at connecting blocks A9 and A10

[8] Mark lead designations per TABLE C

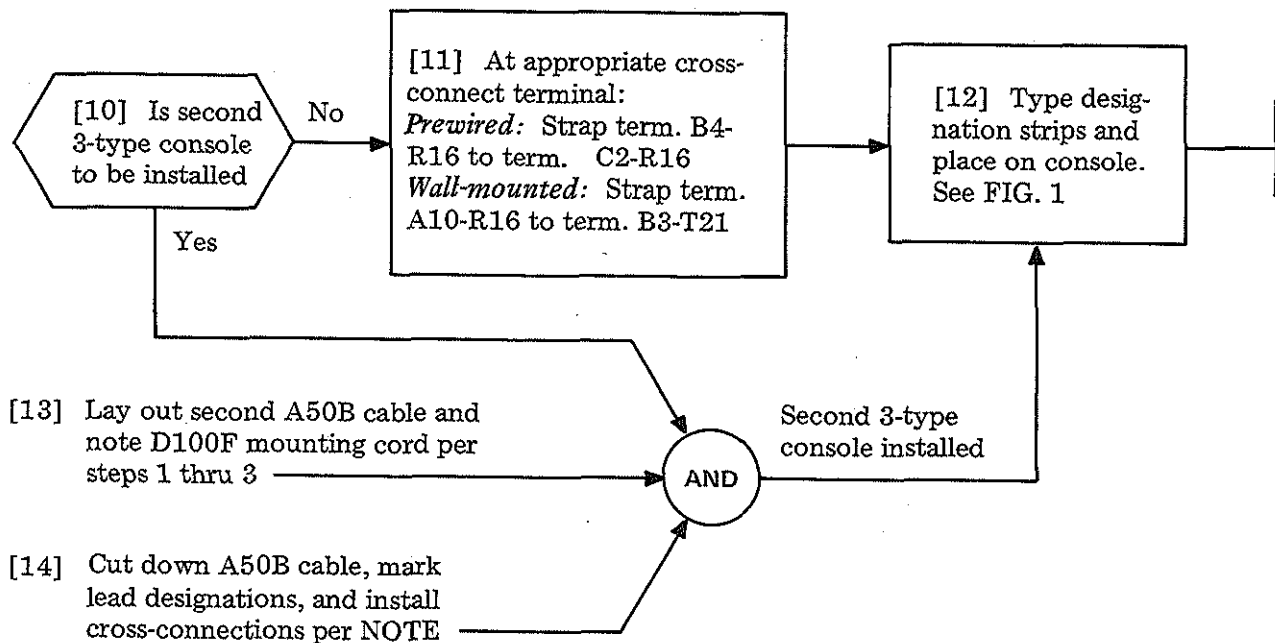
[9] Install cross-connections per TABLE C

AND

Page 2

INSTALL 3-TYPE CONSOLE EQUIPMENT

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NOTE

Prewired Cross-Connect Terminal:
Cut down A50B cable on connecting blocks B5 and B6. TABLE B contains lead designation and cross-connection data. Connect B4-R16 and B6-R16 to C5-R18

Wall-mounted Cross-Connect Terminal:
Cut down A50B cable on connecting blocks A11 and A12. TABLE D contains lead designation and cross-connection data. Connect A10-R16 and A12-R16 to B3-T20

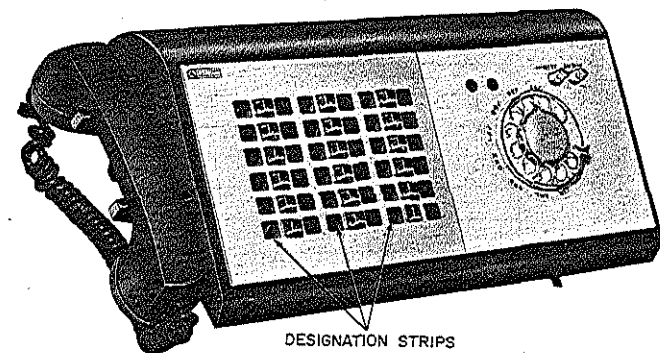


FIG. 1

TABLE A
FIRST 3-TYPE CONSOLE – PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A50B			CROSS-CONNECT TO		CONSOLE CABLE A50B			CROSS-CONNECT TO	
CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.
T1	W-BL	TL1	C1	T1	T1	W-BL	SL10	C2	T1
R1	BL-W	ACA1	↑	R1	R1	BL-W	SL9	↑	R1
T2	W-O	TL2		T2	T2	W-O	SL12	↓	T2
R2	O-W	ACA2		R2	R2	O-W	SL11	C2	R2
T3	W-G	TL3		T3	T3	W-G	SL14		
R3	G-W	ACA3		R3	R3	G-W	SL13	C2	R3
T4	W-BR	TL4		T4	T4	W-BR	LG1	C2	T4
R4	BR-W	ACA4		R4	R4	BR-W	SL15		
T5	W-S	TL5		T5	T5	W-S	LG3	C2	T5
R5	S-W	ACA5		R5	R5	S-W	LG2	C2	R5
T6	R-BL	TL6		T6	T6	R-BL			
R6	BL-R	ACA6		R6	R6	BL-R			
T7	R-O	TL7		T7	T7	R-O			
R7	O-R	ACA7		R7	R7	O-R			
T8	R-G	TL8		T8	T8	R-G			
R8	G-R	ACA8		R8	R8	G-R			
T9	R-BR	TL9		T9	T9	R-BR			
R9	BR-R	ACA9		R9	R9	BR-R			
T10	R-S	TL10		T10	T10	R-S			
R10	S-R	ACA10		R10	R10	S-R			
T11	BK-BL	TL11		T11	T11	BK-BL			
R11	BL-BK	ACA11		R11	R11	BL-BK			
T12	BK-O	TL12		T12	T12	BK-O	TRG	C2	T12
R12	O-BK	ACA12	↓	R12	R12	O-BK			
T13	BK-G	TL13	C1	T13	T13	BK-G	TT	C2	T13

BL-W BINDER – CONNECTING BLOCK B3

O-W BINDER – CONNECTING BLOCK B4

TABLE A (Cont)
FIRST 3-TYPE CONSOLE – PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A50B					CROSS-CONNECT TO		CONSOLE CABLE A50B			CROSS-CONNECT TO:	
BL-W BINDER – CONNECTING BLOCK B3	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	O-W BINDER – CONNECTING BLOCK B4	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.
	R13	G-BK	ACA13	C1	R13		R13	G-BK	TR	C2	R13
	T14	BK-BR	TL14				T14	BK-BR	TT1	↑	T14
	R14	BR-BK	ACA14				R14	BR-BK	TR1	↑	R14
	T15	BK-S	TL15				T15	BK-S	AT	↓	T15
	R15	S-BK	ACA15				R15	S-BK	BT	↓	R15
	T16	Y-BL	T10	*			T16	Y-BL	‡SG	C2	T16
	R16	BL-Y	R10				R16	BL-Y	TRL		
	T17	Y-O	T11				T17	Y-O	SG1	†	
	R17	O-Y	R11				R17	O-Y	BZ	C2	R17
	T18	Y-G	T12				T18	Y-G	SG3	D1	T18
	R18	G-Y	R12				R18	G-Y	SG2	D1	R18
	T19	Y-BR	T13				T19	Y-BR	G	C2	T19
	R19	BR-Y	R13				R19	BR-Y	‡ACG	C2	R19
	T20	Y-S	T14				T20	Y-S	NSG	C2	T20
	R20	S-Y	R14				R20	S-Y	NS	C2	R20
	T21	V-BL	T15				T21	V-BL	ARB	C2	T21
	R21	BL-V	R15				R21	BL-V	ARBG	C2	R21
	T22	V-O	SL2	C1	T22		T22	V-O	H	C2	T22
	R22	O-V	SL1	↑	R22		R22	O-V	NTG	C2	R22
	T23	V-G	SL4		T23		T23	V-G			
	R23	G-V	SL3		R23		R23	G-V			
	T24	V-BR	SL6		T24		T24	V-BR			
	R24	BR-V	SL5		R24		R24	BR-V			
	T25	V-S	SL8	↓	T25		T25	V-S			
	R25	S-V	SL7	C1	R25		R25	S-V			

* Console T and R leads 10 thru 15 (cable pairs 16 thru 21) are used to pick up miscellaneous equipment requiring individual T and R leads.

† If only one 3-type console is provided, connect SG1 lead to C2-T17;

If a key set is provided, connect SG1 lead to D2-R24

‡ If a 556A switchboard is provided, these leads are routed to the PBX via the switchboard.

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TABLE B
SECOND 3-TYPE CONSOLE – PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A50B			CROSS-CONNECT TO		CONSOLE CABLE A50B			CROSS-CONNECT TO:		
CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	
BL-W BINDER – CONNECTING BLOCK B5	T1	W-BL	TL1	C5	T1	T1	W-BL	SL10	C5	T12
	R1	BL-W	ACA1	C1	R1	R1	BL-W	SL9	▲	R11
	T2	W-O	TL2	C5	R1	T2	W-O	SL12	▼	T13
	R2	O-W	ACA2	C1	R2	R2	O-W	SL11	C5	R12
	T3	W-G	TL3	C5	T2	T3	W-G	SL14		
	R3	G-W	ACA3	C1	R3	R3	G-W	SL13	C5	R13
	T4	W-BR	TL4	C5	R2	T4	W-BR	LG1	D2	T23
	R4	BR-W	ACA4	C1	R4	R4	BR-W	SL15		
	T5	W-S	TL5	C5	T3	T5	W-S	LG3	D2	T23
	R5	S-W	ACA5	C1	R5	R5	S-W	LG2	D2	R23
	T6	R-BL	TL6	C5	R3	T6	R-BL			
	R6	BL-R	ACA6	C1	R6	R6	BL-R			
	O-W BINDER – CONNECTING BLOCK B6	T7	R-O	TL7	C5	T4	T7	R-O		
R7		O-R	ACA7	C1	R7	R7	O-R			
T8		R-G	TL8	C5	R4	T8	R-G			
R8		G-R	ACA8	C1	R8	R8	G-R			
T9		R-BR	TL9	C5	T5	T9	R-BR			
R9		BR-R	ACA9	C1	R9	R9	BR-R			
T10		R-S	TL10	C5	R5	T10	R-S			
R10		S-R	ACA10	C1	R10	R10	S-R			
T11		BK-BL	TL11	C5	T6	T11	BK-BL			
R11		BL-BK	ACA11	C1	R11	R11	BL-BK			
T12		BK-O	TL12-	C5	R6	T12	BK-O	TRG	D2	R23
R12		O-BK	ACA12	C1	R12	R12	O-BK			
T13		BK-G	TL13	C5	T7	T13	BK-G	TT	C2	T14

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TABLE B (Cont)
SECOND 3-TYPE CONSOLE – PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A50B			CROSS-CONNECT TO		CONSOLE CABLE A50B			CROSS-CONNECT TO			
BL-W BINDER – CONNECTING BLOCK B5	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	O-W BINDER – CONNECTING BLOCK B6	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.
	R13	G-BK	ACA13	C1	R13		R13	G-BK	TR	C2	R14
	T14	BK-BR	TL14				T14	BK-BR	TT1		
	R14	BR-BK	ACA14				R14	BR-BK	TR1		
	T15	BK-S	TL15				T15	BK-S	AT2	C5	R17
	R15	S-BK	ACA15				R15	S-BK	BT2	C5	T18
	T16	Y-BL	T10				T16	Y-BL	SG	B4	T17
	R16	BL-Y	R10	*			R16	BL-Y	TRL		
	T17	Y-O	T11				T17	Y-O	SG1	†	
	R17	O-Y	R11				R17	O-Y	BZ	C2	R17
	T18	Y-G	T12				T18	Y-G	SG3	D1	T25
	R18	G-Y	R12				R18	G-Y	SG2	D1	R25
	T19	Y-BR	T13				T19	Y-BR	G		
	R19	BR-Y	R13				R19	BR-Y	ACG	C2	T19
	T20	Y-S	T14				T20	Y-S			
	R20	S-Y	R14				R20	S-Y			
	T21	V-BL	T15				T21	V-BL	ARB	C5	T20
	R21	BL-V	R15				R21	BL-V	ARBG	D2	R23
	T22	V-O	SL2	C5	T8		T22	V-O	H	C2	T22
	R22	O-V	SL1	↑	R7		R22	O-V	NTG	C2	R22
	T23	V-G	SL4		T9		T23	V-G			
	R23	G-V	SL3		R8		R23	G-V			
	T24	V-BR	SL6		T10		T24	V-BR			
	R24	BR-V	SL5		R9		R24	BR-V			
	T25	V-S	SL8	↓	T11		T25	V-S			
	R25	S-V	SL7	C5	R10		R25	S-V			

* Console T and R leads 10 thru 15 (cable pairs 16 thru 21) are used to pick up miscellaneous equipment requiring individual T and R leads

† If a key set *is not* provided, connect SG1 lead to C2-T17
If a key set *is* provided, connect SG1 lead to D2-R24

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TABLE C
FIRST 3-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A50B					CROSS-CONNECT TO	CONSOLE CABLE A50B					CROSS-CONNECT TO
BL-W BINDER – CONNECTING BLOCK A9	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK TERM. NO.	TERM. NO.	O-W BINDER – CONNECTING BLOCK A10	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.
	T1	W-BL	TL1	A5	T22		T1	W-BL	SL10	A6	R14
	R1	BL-W	ACA1	A5	T24		R1	BL-W	SL9	B6	R5
	T2	W-O	TL2	B5	T2		T2	W-O	SL12	B6	R9
	R2	O-W	ACA2	↑	T4		R2	O-W	SL11	A6	R18
	T3	W-G	TL3	↓	T7		T3	W-G	SL14		
	R3	G-W	ACA3	B5	T9		R3	G-W	SL13	A6	R13
	T4	W-BR	TL4	A6	T2		T4	W-BR	LG1	B3	T23
	R4	BR-W	ACA4	↑	T4		R4	BR-W	SL15		
	T5	W-S	TL5		T6		T5	W-S	LG3	B3	T23
	R5	S-W	ACA5		T8		R5	S-W	LG2	B3	T23
	T6	R-BL	TL6		T10		T6	R-BL			
	R6	BL-R	ACA6		T12		R6	BL-R			
	T7	R-O	TL7		T14		T7	R-O			
	R7	O-R	ACA7		T16		R7	O-R			
	T8	R-G	TL8		T18		T8	R-G			
	R8	G-R	ACA8		T20		R8	G-R			
	T9	R-BR	TL9	↓	T22		T9	R-BR			
	R9	BR-R	ACA9	A6	T24		R9	BR-R			
T10	R-S	TL10	B6	T1	T10	R-S					
R10	S-R	ACA10	↑	T3	R10	S-R					
T11	BK-BL	TL11		T5	T11	BK-BL					
R11	BL-BK	ACA11		T7	R11	BL-BK					
T12	BK-O	TL12		T9	T12	BK-O	TRG	B3	R22		
R12	O-BK	ACA12	↓	T11	R12	O-BK					
T13	BK-G	TL13	B6	T13	T13	BK-G	TT	B5	T11		

TABLE C (Cont)
FIRST 3-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A50B					CROSS-CONNECT TO		CONSOLE CABLE A50B					CROSS-CONNECT TO	
CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK TERM. NO.	TERM. NO.			CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.		
R13	G-BK	ACA13	B6	T15			R13	G-BK	TR	B5	R11		
T14	BK-BR	TL14					T14	BK-BR	TT1				
R14	BR-BK	ACA14					R14	BR-BK	TR1				
T15	BK-S	TL15					T15	BK-S	AT	B5	T13		
R15	S-BK	ACA15					R15	S-BK	BT	B5	R13		
T16	Y-BL	T10	*				T16	Y-BL	‡SG	B3	R22		
R16	BL-Y	R10					R16	BL-Y	TRL				
T17	Y-O	T11					T17	Y-O	SG1	†			
R17	O-Y	R11					R17	O-Y	BZ	B5	T15		
T18	Y-G	T12					T18	Y-G	SG3	A4	T19		
R18	G-Y	R12					R18	G-Y	SG2	A4	R18		
T19	Y-BR	T13					T19	Y-BR	G				
R19	BR-Y	R13					R19	BR-Y	‡ACG	B5	T12		
T20	Y-S	T14					T20	Y-S	NSG	B3	R22		
R20	S-Y	R14					R20	S-Y	NS	B5	R15		
T21	V-BL	T15					T21	V-BL	ARB	B5	T17		
R21	BL-V	R15					R21	BL-V	ARBG	B3	R22		
T22	V-O	SL2	B5	R2			T22	V-O	H	B5	T16		
R22	O-V	SL1	A5	R22			R22	O-V	NTG	B5	R12		
T23	V-G	SL4	A6	R2			T23	V-G					
R23	G-V	SL3	B5	R7			R23	G-V					
T24	V-BR	SL6	A6	R10			T24	V-BR					
R24	BR-V	SL5	A6	R6			R24	BR-V					
T25	V-S	SL8	B6	R1			T25	V-S					
R25	S-V	SL7	A6	R22			R25	S-V					

* Console T and R leads 10 thru 15 (cable pairs 16 thru 21) are used to pick up miscellaneous equipment requiring individual T and R leads.

† If only one 3-type console is provided connect SG1 lead to B5-T24
 If a key is provided, connect SG1 lead to B3-R24

‡ If a 556A switchboard is provided, these leads are routed to the PBX via the switchboard.

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TABLE D
SECOND 3-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A50B					CROSS-CONNECT TO		CONSOLE CABLE A50B					CROSS-CONNECT TO	
BL-W BINDER – CONNECTING BLOCK A11	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	O-W BINDER – CONNECTING BLOCK A12	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.		
	T1	W-BL	TL1	A5	T23		T1	W-BL	SL10	A6	R15		
	R1	BL-W	ACA1	A5	T24		R1	BL-W	SL9	B6	R6		
	T2	W-O	TL2	B5	T4		T2	W-O	SL12	B6	R10		
	R2	O-W	ACA2	↑	T5		R2	O-W	SL11	A6	R19		
	T3	W-G	TL3	↓	T8		T3	W-G	SL14				
	R3	G-W	ACA3	B5	T9		R3	G-W	SL13	B6	R4		
	T4	W-BR	TL4	A6	T3		T4	W-BR	LG1	B3	T23		
	R4	BR-W	ACA4	↑	T4		R4	BR-W	SL15				
	T5	W-S	TL5		T7		T5	W-S	LG3	B3	T23		
	R5	S-W	ACA5		T8		R5	S-W	LG2	B3	R23		
	T6	R-BL	TL6		T11		T6	R-BL					
	R6	BL-R	ACA6		T12		R6	BL-R					
	T7	R-O	TL7	↓	T23		T7	R-O					
R7	O-R	ACA7	A6	T24	R7	O-R							
T8	R-G	TL8	B6	T2	T8	R-G							
R8	G-R	ACA8	↑	T3	R8	G-R							
T9	R-BR	TL9	↓	T6	T9	R-BR							
R9	BR-R	ACA9	B6	T7	R9	BR-R							
T10	R-S	TL10	A6	T15	T10	R-S							
R10	S-R	ACA10	↑	T16	R10	S-R							
T11	BK-BL	TL11	↓	T19	T11	BK-BL							
R11	BL-BK	ACA11	A6	T20	R11	BL-BK							
T12	BK-O	TL12	B6	T10	T12	BK-O	TRG	B3	R23				
R12	O-BK	ACA12	B6	T11	R12	O-BK							
T13	BK-G	TL13	B6	T14	T13	BK-G	TT	A10	T14				

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TABLE D (Cont)
SECOND 3-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A50B		CROSS-CONNECT TO			CONSOLE CABLE A50B		CROSS-CONNECT TO				
BL-W BINDER – CONNECTING BLOCK A11	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	O-W BINDER – CONNECTING BLOCK A12	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.
	R13	G-BK	ACA13	B6	T15		R13	G-BK	TR	A10	R14
	T14	BK-BR	TL14				T14	BK-BR	TT1		
	R14	BR-BK	ACA14				R14	BR-BK	TR1		
	T15	BK-S	TL15				T15	BK-S	AT2	B5	T14
	R15	S-BK	ACA15				R15	S-BK	BT2	B5	R14
	T16	Y-BL	T10	*			T16	Y-BL	SG	A10	T17
	R16	BL-Y	R10				R16	BL-Y	TRL		
	T17	Y-O	T11				T17	Y-O	SG1	†	
	R17	O-Y	R11				R17	O-Y	BZ	B5	T15
	T18	Y-G	T12				T18	Y-G	SG3	A4	R20
	R18	G-Y	R12				R18	G-Y	SG2	A4	T20
	T19	Y-BR	T13				T19	Y-BR	G		
	R19	BR-Y	R13				R19	BR-Y	ACG	A10	T19
	T20	Y-S	T14				T20	Y-S			
	R20	S-Y	R14				R20	S-Y			
	T21	V-BL	T15				T21	V-BL	ARB	B5	R17
	R21	BL-V	R15				R21	BL-V	ARBG	B3	R23
	T22	V-O	SL2	B5	R4		T22	V-O	H	B5	T16
	R22	O-V	SL1	A5	R23		R22	O-V	NTG	B5	R12
	T23	V-G	SL4	A6	R3		T23	V-G			
	R23	G-V	SL3	B5	R7		R23	G-V			
	T24	V-BR	SL6	A6	R11		T24	V-BR			
	R24	BR-V	SL5	A6	R7		R24	BR-V			
	T25	V-S	SL8	B6	R2		T25	V-S			
	R25	S-V	SL7	A6	R23		R25	S-V			

* Console T and R leads 10 thru 15 (cable pairs 16 thru 21) are used to pick up miscellaneous equipment requiring individual T and R leads.

† If a key set *is not* provided, connect SG1 lead to B5-T24
If a key set *is* provided, connect SG1 lead to B3-R24

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[1] Layout A100C connecting cable from 3-type console to the cross-connect terminal

[2] Mate D200J mounting cord with console connectors IV, V, VI, and VII

[3] Mate D200J mounting cord with A100C cable plugs/jacks 1, 2, 3, and 4

AND

[4] What type cross-connect terminal is provided

Prewired

Wall-mounted

[5] Cut down A100C cable at connecting blocks B3, B4, B5, and B6

[6] Mark lead designations per TABLE A

[7] Install cross-connections per TABLE A

[8] Cut down A100C cable at connecting blocks A9, B9, A10, and B10

[9] Mark lead designations per TABLE C

[10] Install cross-connections per TABLE C

AND

First 4-type console installed

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AND

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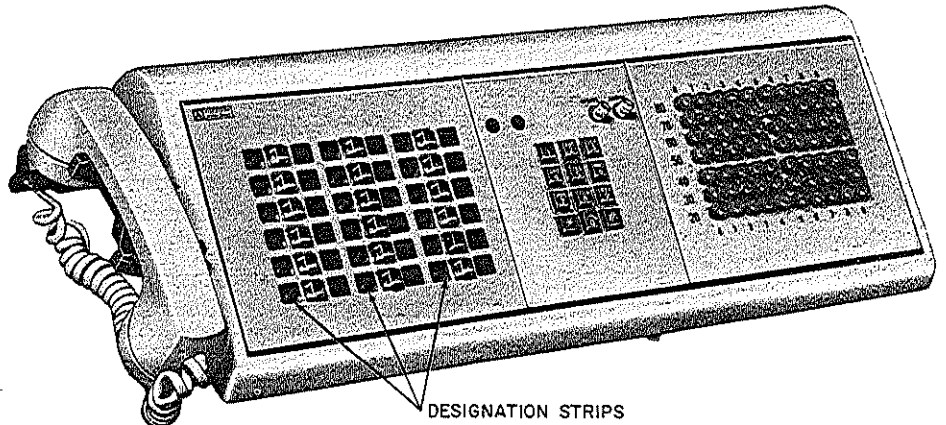
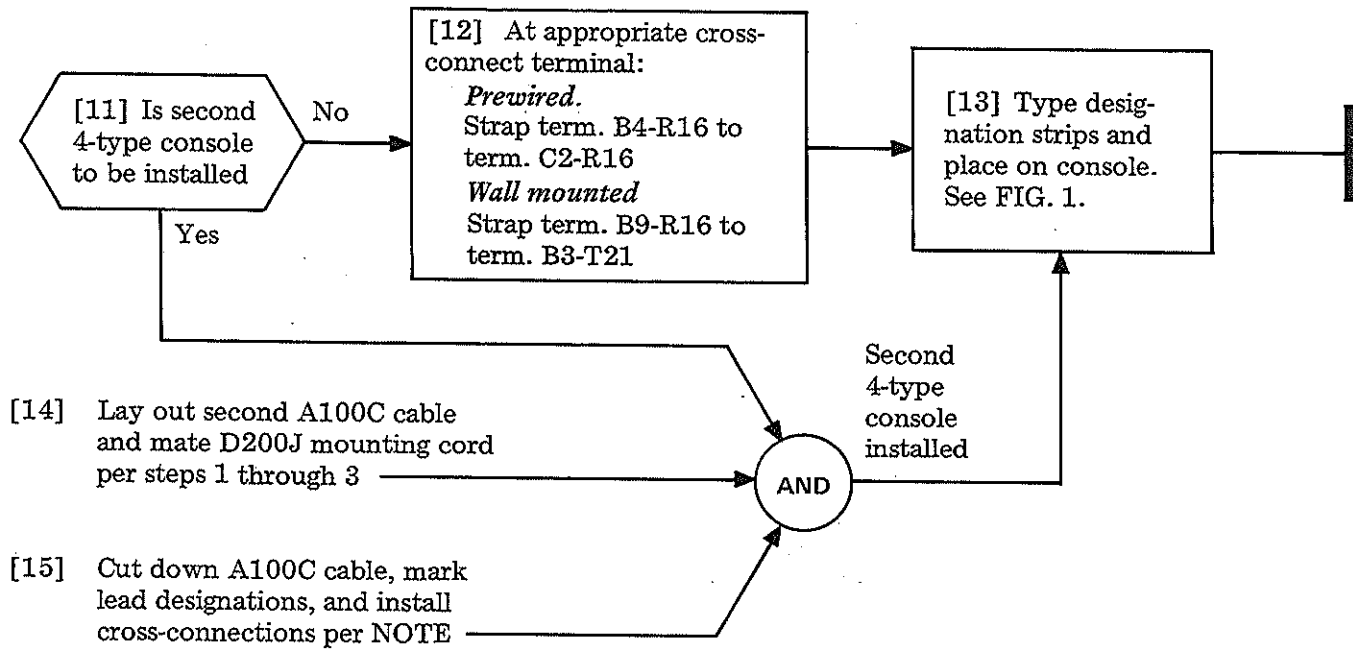


FIG. 1 — Designation strips (trunk call numbers)

NOTE

Prewired Cross-Connect Terminal:
Cut down A100C cable on connecting blocks B7, B8, C7, and C8. TABLE B contains lead designation and cross-connection data. Connect B4-R16 and B8-R16 to C5-R18

Wall-mounted Cross-Connect Terminal:
Cut down A100C cable on connecting blocks A11, B11, A12, and B12. TABLE D contains lead designation and cross-connection data. Connect B9-R16 and B11-R16 to B3-T20

TABLE A
FIRST 4-TYPE CONSOLE -- PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C			CROSS-CONNECT TO		CONSOLE CABLE A100C			CROSS-CONNECT TO	
CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN BLOCK	TERM. NO.	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN BLOCK	TERM. NO.
T1	W-BL	TL1	C1	T1	T1	W-BL	SL10	C2	T1
R1	BL-W	ACA1	↑	R1	R1	BL-W	SL9	↑	R1
T2	W-O	TL2		T2	T2	W-O	SL12	↓	T2
R2	O-W	ACA2		R2	R2	O-W	SL11	C2	R2
T3	W-G	TL3		T3	T3	W-G	SL14		
R3	G-W	ACA3		R3	R3	G-W	SL13	C2	R3
T4	W-BR	TL4		T4	T4	W-BR	LG1	C2	T4
R4	BR-W	ACA4		R4	R4	BR-W	SL15		
T5	W-S	TL5		T5	T5	W-S	LG3	C2	T5
R5	S-W	ACA5		R5	R5	S-W	LG2	C2	R5
T6	R-BL	TL6		T6	T6	R-BL			
R6	BL-R	ACA6		R6	R6	BL-R			
T7	R-O	TL7		T7	T7	R-O	B20	C2	T7
R7	O-R	ACA7		R7	R7	O-R			
T8	R-G	TL8		T8	T8	R-G	B40	C2	T8
R8	G-R	ACA8		R8	R8	G-R	B30	↑	R8
T9	R-BR	TL9		T9	T9	R-BR	B60		T9
R9	BR-R	ACA9		R9	R9	BR-R	B50		R9
T10	R-S	TL10		T10	T10	R-S	B80	↓	T10
R10	S-R	ACA10		R10	R10	S-R	B70	C2	R10
T11	BK-BL	TL11		T11	T11	BK-BL			
R11	BL-BK	ACA11		R11	R11	BL-BK			
T12	BK-O	TL12		T12	T12	BK-O	TRG	C2	T12
R12	O-BK	ACA12	↓	R12	R12	O-BK			
T13	BK-G	TL13	C1	T13	T13	BK-G	TT	C2	T13

BL-W BINDER -- CONNECTING BLOCK B3

O-W BINDER -- CONNECTING BLOCK B4

TABLE A (Cont)
FIRST 4-TYPE CONSOLE – PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C					CROSS-CONNECT TO		CONSOLE CABLE A100C					CROSS-CONNECT TO	
BL-W BINDER – CONNECTING BLOCK B3	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	O-W BINDER – CONNECTING BLOCK B4	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.		
	R13	G-BK	ACA13	C1	R13		R13	G-BK	TR	C2	R13		
T14	BK-BR	TL14			T14	BK-BR	TT1	↑	T14				
R14	BR-BK	ACA14			R14	BR-BK	TR1	↓	R14				
T15	BK-S	TL15			T15	BK-S	AT		T15				
R15	S-BK	ACA15			R15	S-BK	BT		R15				
T16	Y-BL	T10	*		T16	Y-BL	‡SG	C2	T16				
R16	BL-Y	R10			R16	BL-Y	TRL						
T17	Y-O	T11			T17	Y-O	SG1	†					
R17	O-Y	R11			R17	O-Y	BZ	C2	R17				
T18	Y-G	T12			T18	Y-G	SG3	D1	T18				
R18	G-Y	R12			R18	G-Y	SG2	D1	R18				
T19	Y-BR	T13			T19	Y-BR	G	C2	T19				
R19	BR-Y	R13			R19	BR-Y	‡ACG	↑	R19				
T20	Y-S	T14			T20	Y-S	NSG		T20				
R20	S-Y	R14			R20	S-Y	NS		R20				
T21	V-BL	T15			T21	V-BL	ARB		T21				
R21	BL-V	R15			R21	BL-V	ARBG		R21				
T22	V-O	SL2	C1	T22	T22	V-O	H	↓	T22				
R22	O-V	SL1	↑	R22	R22	O-V	NTG	C2	R22				
T23	V-G	SL4		T23	T23	V-G							
R23	G-V	SL3		R23	R23	G-V							
T24	V-BR	SL6		T24	T24	V-BR							
R24	BR-V	SL5		R24	R24	BR-V							
T25	V-S	SL8	↓	T25	T25	V-S							
R25	S-V	SL7	C1	R25	R25	S-V							

* Console T and R leads 10 thru 15 (cable pairs 16 thru 21) are used to pick up miscellaneous equipment requiring individual T and R leads.

† If only one 4-type console is provided, connect SG1 lead to C2-T17.

If a key set is provided, connect SG1 lead to D2-R24.

‡ If a 556A switchboard is provided, these leads are routed to the PBX via the switchboard.

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TABLE A (Cont)
FIRST 4-TYPE CONSOLE — PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C			CROSS-CONNECT TO		CONSOLE CABLE A100C			CROSS-CONNECT TO	
CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.
T1	W-BL				T1	W-BL	BL41	C4	T1
R1	BL-W				R1	BL-W	BL40	↑	R1
T2	W-O				T2	W-O	BL43		T2
R2	O-W				R2	O-W	BL42		R2
T3	W-G				T3	W-G	BL45		T3
R3	G-W				R3	G-W	BL44		R3
T4	W-BR				T4	W-BR	BL47		T4
R4	BR-W				R4	BR-W	BL46		R4
T5	W-S	TG	C2	T5	T5	W-S	BL49		T5
R5	S-W				R5	S-W	BL48		R5
T6	R-BL	T3	C3	T6	T6	R-BL	BL51		T6
R6	BL-R	T2	↑	R6	R6	BL-R	BL50		R6
T7	R-O	T5		T7	T7	R-O	BL53		T7
R7	O-R	T4		R7	R7	O-R	BL52		R7
T8	R-G	T7		T8	T8	R-G	BL55		T8
R8	G-R	T6		R8	R8	G-R	BL54		R8
T9	R-BR	H1		T9	T9	R-BR	BL57		T9
R9	BR-R	T8		R9	R9	BR-R	BL56		R9
T10	R-S	U1		T10	T10	R-S	BL59		T10
R10	S-R	HG		R10	R10	S-R	BL58		R10
T11	BK-BL	U3		T11	T11	BK-BL	BL61		T11
R11	BL-BK	U2		R11	R11	BL-BK	BL60		R11
T12	BK-O	U5		T12	T12	BK-O	BL63		T12
R12	O-BK	U4		R12	R12	O-BK	BL62	↓	R12
T13	BK-G	U7	C3	T13	T13	BK-G	BL65	C4	T13

G-W BINDER — CONNECTING BLOCK B5

BR-W BINDER — CONNECTING BLOCK B6

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TABLE A (Cont)
FIRST 4-TYPE CONSOLE – PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C		CROSS-CONNECT TO			CONSOLE CABLE A100C		CROSS-CONNECT TO				
G-W BINDER – CONNECTING BLOCK B5	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	BR-W BINDER – CONNECTING BLOCK B6	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.
	R13	G-BK	U6	C3	R13		R13	G-BK	BL64	C4	R13
	T14	BK-BR	U9	↑	T14		T14	BK-BR	BL67	↑	T14
	R14	BR-BK	U8		R14		R14	BR-BK	BL66		R14
	T15	BK-S	UG		T15		T15	BK-S	BL69		T15
	R15	S-BK	U0		R15		R15	S-BK	BL68		R15
	T16	Y-BL	BL21	*	T16		T16	Y-BL	BL71		T16
	R16	BL-Y	BL20		R16		R16	BL-Y	BL70		R16
	T17	Y-O	BL23		T17		T17	Y-O	BL73		T17
	R17	O-Y	BL22		R17		R17	O-Y	BL72		R17
	T18	Y-G	BL25		T18		T18	Y-G	BL75		T18
	R18	G-Y	BL24		R18		R18	G-Y	BL74		R18
	T19	Y-BR	BL27		T19		T19	Y-BR	BL77		T19
	R19	BR-Y	BL26		R19		R19	BR-Y	BL76		R19
	T20	Y-S	BL29		T20		T20	Y-S	BL79		T20
	R20	S-Y	BL28		R20		R20	S-Y	BL78		R20
	T21	V-BL	BL31		T21		T21	V-BL	BL81	*	T21
	R21	BL-V	BL30		R21		R21	BL-V	BL80		R21
	T22	V-O	BL33		T22		T22	V-O	BL83		T22
	R22	O-V	BL32		R22		R22	O-V	BL82		R22
	T23	V-G	BL35		T23		T23	V-G	BL85		T23
	R23	G-V	BL34		R23		R23	G-V	BL84		R23
	T24	V-BR	BL37		T24		T24	V-BR	BL87		T24
	R24	BR-V	BL36		R24		R24	BR-V	BL86		R24
	T25	V-S	BL39	↓	T25		T25	V-S	BL89	↓	T25
	R25	S-V	BL38	C3	R25		R25	S-V	BL88	C4	R25

* When BL leads 80 thru 89 are required, move cross-connect wires from B5, terminals T16 thru R20, to B6, terminals T21 thru R25.

TABLE B
SECOND 4-TYPE CONSOLE – PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C			CROSS-CONNECT TO		CONSOLE CABLE A100C			CROSS-CONNECT TO		
CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	
BL-W BINDER – CONNECTING BLOCK B7	T1	W-BL	TL1	C5	T1	T1	W-BL	SL10	C5	T12
	R1	BL-W	ACA1	C1	R1	R1	BL-W	SL9	↑	R11
	T2	W-O	TL2	C5	R1	T2	W-O	SL12	↓	T13
	R2	O-W	ACA2	C1	R2	R2	O-W	SL11	C5	R12
	T3	W-G	TL3	C5	T2	T3	W-G	SL14		
	R3	G-W	ACA3	C1	R3	R3	G-W	SL13	C5	R13
	T4	W-BR	TL4	C5	R2	T4	W-BR	LG1	D2	T23
	R4	BR-W	ACA4	C1	R4	R4	BR-W	SL15		
	T5	W-S	TL5	C5	T3	T5	W-S	LG3	D2	T23
	R5	S-W	ACA5	C1	R5	R5	S-W	LG2	D2	R23
	T6	R-BL	TL6	C5	R3	T6	R-BL			
	R6	BL-R	ACA6	C1	R6	R6	BL-R			
	O-W BINDER – CONNECTING BLOCK B8	T7	R-O	TL7	C5	T4	T7	R-O	B20	C5
R7		O-R	ACA7	C1	R7	R7	O-R			
T8		R-G	TL8	C5	R4	T8	R-G	B40	C5	R14
R8		G-R	ACA8	C1	R8	R8	G-R	B30	↑	T15
T9		R-BR	TL9	C5	T5	T9	R-BR	B60		R15
R9		BR-R	ACA9	C1	R9	R9	BR-R	B50		T16
T10		R-S	TL10	C5	R5	T10	R-S	B80	↓	R16
R10		S-R	ACA10	C1	R10	R10	S-R	B70	C5	T17
T11		BK-BL	TL11	C5	T6	T11	BK-BL			
R11		BL-BK	ACA11	C1	R11	R11	BL-BK			
T12		BK-O	TL12	C5	R6	T12	BK-O	TRG	D2	R23
R12		O-BK	ACA12	C1	R12	R12	O-BK			
T13		BK-G	TL13	C5	T7	T13	BK-G	TT	C2	T14

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TABLE B (Cont)
SECOND 4-TYPE CONSOLE – PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C		CROSS-CONNECT TO			CONSOLE CABLE A100C		CROSS-CONNECT TO						
BL-W BINDER – CONNECTING BLOCK B7	BL-W BINDER – CONNECTING BLOCK B7	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	O-W BINDER – CONNECTING BLOCK B8	O-W BINDER – CONNECTING BLOCK B8	CONN. BLOCK	TERM. NO.			
		R13	G-BK	ACA13	C1	R13			R13	G-BK	TR	C2	R14
		T14	BK-BR	TL14					T14	BK-BR	TT1	†	†
		R14	BR-BK	ACA14					R14	BR-BK	TR1	†	†
		T15	BK-S	TL15					T15	BK-S	AT2	C5	R17
		R15	S-BK	ACA15					R15	S-BK	BT2	C5	T18
		T16	Y-BL	T10					T16	Y-BL	SG	B4	T17
		R16	BL-Y	R10	*				R16	BL-Y	TRL		
		T17	Y-O	T11					T17	Y-O	SG1	†	
		R17	O-Y	R11					R17	O-Y	BZ	C2	R17
		T18	Y-G	T12					T18	Y-G	SG3	C5	T19
		R18	G-Y	R12					R18	G-Y	SG2	C5	R19
		T19	Y-BR	T13					T19	Y-BR	G	†	
		R19	BR-Y	R13					R19	BR-Y	ACG	B4	T19
		T20	Y-S	T14					T20	Y-S			
		R20	S-Y	R14					R20	S-Y			
		T21	V-BL	T15					T21	V-BL	ARB	C5	T20
		R21	BL-V	R15					R21	BL-V	ARBG	D2	R23
		T22	V-O	SL2	C5	T8			T22	V-O	H	C2	T22
		R22	O-V	SL1	↑	R7			R22	O-V	NTG	C2	R22
		T23	V-G	SL4	↑	T9			T23	V-G			
		R23	G-V	SL3		R8			R23	G-V			
		T24	V-BR	SL6		T10			T24	V-BR			
		R24	BR-V	SL5		R9			R24	BR-V			
		T25	V-S	SL8	↓	T11			T25	V-S			
		R25	S-V	SL7	C5	R10			R25	S-V			

* Console T and R leads 10 thru 15 (cable pairs 16 thru 21) are used to pick up miscellaneous equipment requiring individual T and R leads

† If a key set is *not* provided, connect SG1 lead to C2-T17.

If a key set is provided, connect SG1 lead to D2-R24, TT1 lead to C2-T13, TR1 lead to C2-R13, and G lead to C2-R19.

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TABLE B (Cont)
SECOND 4-TYPE CONSOLE -- PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C			CROSS-CONNECT TO		CONSOLE CABLE A100C			CROSS-CONNECT TO			
G-W BINDER -- CONNECTING BLOCK C7	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	BR-W BINDER -- CONNECTING BLOCK C8	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.
	T1	W-BL					T1	W-BL	BL41	C4	T1
	R1	BL-W					R1	BL-W	BL40	↑	R1
	T2	W-O					T2	W-O	BL43		T2
	R2	O-W					R2	O-W	BL42		R2
	T3	W-G					T3	W-G	BL45		T3
	R3	G-W					R3	G-W	BL44		R3
	T4	W-BR					T4	W-BR	BL47		T4
	R4	BR-W					R4	BR-W	BL46		R4
	T5	W-S	TG	D2	T23		T5	W-S	BL49		T5
	R5	S-W					R5	S-W	BL48		R5
	T6	R-BL	T3	C6	T1		T6	R-BL	BL51		T6
	R6	BL-R	T2	↑	R1		R6	BL-R	BL50		R6
	T7	R-O	T5	↑	T2		T7	R-O	BL53		T7
	R7	O-R	T4	↑	R2		R7	O-R	BL52		R7
	T8	R-G	T7	↑	T3		T8	R-G	BL55		T8
	R8	G-R	T6	↑	R3		R8	G-R	BL54		R8
	T9	R-BR	H1	↓	T4		T9	R-BR	BL57		T9
	R9	BR-R	T8	↓	R4		R9	BR-R	BL56		R9
	T10	R-S	U1	C6	T5		T10	R-S	BL59		T10
	R10	S-R	HG	D2	T23		R10	S-R	BL58		R10
	T11	BK-BL	U3	C6	R5		T11	BK-BL	BL61		T11
	R11	BL-BK	U2	↑	T6		R11	BL-BK	BL60		R11
	T12	BK-O	U5	↑	R6		T12	BK-O	BL63		T12
	R12	O-BK	U4	↓	T7		R12	O-BK	BL62	↓	R12
	T13	BK-G	U7	C6	R7		T13	BK-G	BL65	C4	T13

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SECOND 4-TYPE CONSOLE – PREWIRED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C					CROSS-CONNECT TO		CONSOLE CABLE A100C					CROSS-CONNECT TO	
G-W BINDER – CONNECTING BLOCK C7	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	BR-W BINDER – CONNECTING BLOCK C8	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.		
	R13	G-BK	U6	C6	T8		R13	G-BK	BL64	C4	R13		
	T14	BK-BR	U9	C6	R8		T14	BK-BR	BL67	▲	T14		
	R14	BR-BK	U8	C6	T9		R14	BR-BK	BL66		R14		
	T15	BK-S	UG	D2	T23		T15	BK-S	BL69		T15		
	R15	S-BK	U0	C6	R9		R15	S-BK	BL68		R15		
	T16	Y-BL	BL21	*C3	T16		T16	Y-BL	BL71		T16		
	R16	BL-Y	BL20	▲	R16		R16	BL-Y	BL70		R16		
	T17	Y-O	BL23		T17		T17	Y-O	BL73		T17		
	R17	O-Y	BL22		R17		R17	O-Y	BL72		R17		
	T18	Y-G	BL25		T18		T18	Y-G	BL75		T18		
	R18	G-Y	BL24		R18		R18	G-Y	BL74		R18		
	T19	Y-BR	BL27		T19		T19	Y-BR	BL77		T19		
	R19	BR-Y	BL26		R19		R19	BR-Y	BL76		R19		
	T20	Y-S	BL29		T20		T20	Y-S	BL79		T20		
	R20	S-Y	BL28		R20		R20	S-Y	BL78		R20		
	T21	V-BL	BL31		T21		T21	V-BL	BL81	*	T21		
	R21	BL-V	BL30		R21		R21	BL-V	BL80		R21		
	T22	V-O	BL33		T22		T22	V-O	BL83		T22		
	R22	O-V	BL32		R22		R22	O-V	BL82		R22		
T23	V-G	BL35		T23	T23	V-G	BL85		T23				
R23	G-V	BL34		R23	R23	G-V	BL84		R23				
T24	V-BR	BL37		T24	T24	V-BR	BL87		T24				
R24	BR-V	BL36		R24	R24	BR-V	BL86		R24				
T25	V-S	BL39	▼	T25	T25	V-S	BL89	▼	T25				
R25	S-V	BL38	C3	R25	R25	S-V	BL88	C4	R25				

* When BL leads 80 thru 89 are required, move cross-connect wires from C7, terminals T16 thru R20, to C8, terminals T21 thru R25.

TABLE C
FIRST 4-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C					CROSS-CONNECT TO		CONSOLE CABLE A100C					CROSS-CONNECT TO	
BL-W BINDER – CONNECTING BLOCK A9	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	O-W BINDER – CONNECTING BLOCK B9	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.		
	T1	W-BL	TL1	A5	T22		T1	W-BL	SL10	A6	R14		
	R1	BL-W	ACA1	A5	T24		R1	BL-W	SL9	B6	R5		
	T2	W-O	TL2	B5	T2		T2	W-O	SL12	B6	R9		
	R2	O-W	ACA2	↑	T4		R2	O-W	SL11	A6	R18		
	T3	W-G	TL3	↓	T7		T3	W-G	SL14				
	R3	G-W	ACA3	B5	T9		R3	G-W	SL13	B6	R13		
	T4	W-BR	TL4	A6	T2		T4	W-BR	LG1	B3	T23		
	R4	BR-W	ACA4	↑	T4		R4	BR-W	SL15				
	T5	W-S	TL5		T6		T5	W-S	LG3	B3	T22		
	R5	S-W	ACA5		T8		R5	S-W	LG2	B3	T22		
	T6	R-BL	TL6		T10		T6	R-BL					
	R6	BL-R	ACA6		T12		R6	BL-R					
	T7	R-O	TL7	↓	T22		T7	R-O	B20	B8	T6		
	R7	O-R	ACA7	A6	T24		R7	O-R					
T8	R-G	TL8	B6	T1	T8	R-G	B40	B8	T7				
R8	G-R	ACA8	↑	T3	R8	G-R	B30	↑	R6				
T9	R-BR	TL9	↓	T5	T9	R-BR	B60		T8				
R9	BR-R	ACA9	B6	T7	R9	BR-R	B50		R7				
T10	R-S	TL10	A6	T14	T10	R-S	B80	↓	T9				
R10	S-R	ACA10	↑	T16	R10	S-R	B70	B8	R8				
T11	BK-BL	TL11	↓	T18	T11	BK-BL							
R11	BL-BK	ACA11	A6	T20	R11	BL-BK							
T12	BK-O	TL12	B6	T9	T12	BK-O	TRG	B3	R22				
R12	O-BK	ACA12	B6	T11	R12	O-BK							
T13	BK-G	TL13	B6	T13	T13	BK-G	TT	B5	T11				

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TABLE C FIRST 4-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNECT TERMINAL DATA											
CONSOLE CABLE A100C			CROSS-CONNECT TO		CONSOLE CABLE A100C			CROSS-CONNECT TO			
BL-W BINDER – CONNECTING BLOCK A9	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	O-W BINDER – CONNECTING BLOCK B9	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.
	R13	G-BK	ACA13	B6	T15		R13	G-BK	TR	B5	R11
	T14	BK-BR	TL14				T14	BK-BR	TT1	†	†
	R14	BR-BK	ACA14				R14	BR-BK	TR1	†	†
	T15	BK-S	TL15				T15	BK-S	AT	B5	T13
	R15	S-BK	ACA15				R15	S-BK	BT	B5	R13
	T16	Y-BL	T10	*			T16	Y-BL	‡SG	B3	R22
	R16	BL-Y	R10				R16	BL-Y	TRL		
	T17	Y-O	T11				T17	Y-O	SG1	†	
	R17	O-Y	R11				R17	O-Y	BZ	B5	T15
	T18	Y-G	T12				T18	Y-G	SG3	A8	T20
	R18	G-Y	R12				R18	G-Y	SG2	A8	R20
	T19	Y-BR	T13				T19	Y-BR	G	†	
	R19	BR-Y	R13				R19	BR-Y	‡ACG	B5	T12
	T20	Y-S	T14				T20	Y-S	NSG	B3	R22
	R20	S-Y	R14				R20	S-Y	NS	B5	R15
	T21	V-BL	T15				T21	V-BL	ARB	B5	T17
	R21	BL-V	R15				R21	BL-V	ARBG	B3	R22
	T22	V-O	SL2	B5	R2		T22	V-O	H	B5	T16
	R22	O-V	SL1	A5	R22		R22	O-V	NTG	B5	R12
	T23	V-G	SL4	A6	R2		T23	V-G			
	R23	G-V	SL3	B5	R7		R23	G-V			
	T24	V-BR	SL6	A6	R10		T24	V-BR			
	R24	BR-V	SL5	A6	R6		R24	BR-V			
	T25	V-S	SL8	B6	R1		T25	V-S			
	R25	S-V	SL7	A6	R22		R25	S-V			

* Console T and R leads 10 thru 15 (cable pairs 16 thru 21) are used to pick up miscellaneous equipment requiring individual T and R leads.

† If only one 4-type console is provided, connect SG1 lead to B5-T24.

If a key set is provided, connect SG1 lead to B3-R24, TT1 lead to B5-T11, TR1 lead to B5-R11, and G lead to B5-T12.

‡ If a 556A switchboard is provided, these leads are routed to the PBX via the switchboard.

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TABLE C (Cont)
FIRST 4-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C					CROSS-CONNECT TO		CONSOLE CABLE A100C					CROSS-CONNECT TO	
G-W BINDER – CONNECTING BLOCK A10	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	BR-W BINDER – CONNECTING BLOCK B10	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.		
	T1	W-BL						T1	W-BL	BL41	B7	R6	
	R1	BL-W						R1	BL-W	BL40	▲	T6	
	T2	W-O						T2	W-O	BL43		R7	
	R2	O-W						R2	O-W	BL42		T7	
	T3	W-G						T3	W-G	BL45		R8	
	R3	G-W						R3	G-W	BL44		T8	
	T4	W-BR						T4	W-BR	BL47		R9	
	R4	BR-W						R4	BR-W	BL46		T9	
	T5	W-S	TG		B3		T22	T5	W-S	BL49		R10	
	R5	S-W						R5	S-W	BL48		T10	
	T6	R-BL	T3		A8		R11	T6	R-BL	BL51		R11	
	R6	BL-R	T2		▲		T11	R6	BL-R	BL50		T11	
	T7	R-O	T5				R12	T7	R-O	BL53		R12	
R7	O-R	T4			T12	R7	O-R	BL52		T12			
T8	R-G	T7			R13	T8	R-G	BL55		R13			
R8	G-R	T6			T13	R8	G-R	BL54		T13			
T9	R-BR	H1			R19	T9	R-BR	BL57		R14			
R9	BR-R	T8		▼	T14	R9	BR-R	BL56		T14			
T10	R-S	U1		A8	T15	T10	R-S	BL59	▼	R15			
R10	S-R	HG		B3	T22	R10	S-R	BL58	B7	T15			
T11	BK-BL	U3		A8	T16	T11	BK-BL	BL61	A8	R1			
R11	BL-BK	U2		▲	R15	R11	BL-BK	BL60	▲	T1			
T12	BK-O	U5			T17	T12	BK-O	BL63		R2			
R12	O-BK	U4		▼	R16	R12	O-BK	BL62	▼	T2			
T13	BK-G	U7		A8	T18	T13	BK-G	BL65	A8	R3			

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TABLE C (Cont)
FIRST 4-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNECT TERMINAL DATA

		CONSOLE CABLE A100C			CROSS-CONNECT TO		CONSOLE CABLE A100C			CROSS-CONNECT TO		
		CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	
G-W BINDER – CONNECTING BLOCK A10		R13	G-BK	U6	A8	R17		R13	G-BK	BL64	A8	T3
		T14	BK-BR	U9	A8	T19		T14	BK-BR	BL67	↑	R4
		R14	BR-BK	U8	A8	R18		R14	BR-BK	BL66		T4
		T15	BK-S	UG	B3	T22		T15	BK-S	BL69		R5
		R15	S-BK	U0	A8	R14		R15	S-BK	BL68		T5
		T16	Y-BL	BL21	*A7	11R		T16	Y-BL	BL71		R6
		R16	BL-Y	BL20	↑	11T		R16	BL-Y	BL70		T6
		T17	Y-O	BL23		12R		T17	Y-O	BL73		R7
		R17	O-Y	BL22		12T		R17	O-Y	BL72		T7
		T18	Y-G	BL25		13R		T18	Y-G	BL75		R8
		R18	G-Y	BL24		13T		R18	G-Y	BL74		T8
		T19	Y-BR	BL27		14R		T19	Y-BR	BL77		R9
		R19	BR-Y	BL26		14T		R19	BR-Y	BL76		T9
		T20	Y-S	BL29		15R		T20	Y-S	BL79	↓	R10
		R20	S-Y	BL28		15T		R20	S-Y	BL78	A8	T10
		T21	V-BL	BL31		16R		T21	V-BL	BL81	*	
		R21	BL-V	BL30		16T		R21	BL-V	BL80		
		T22	V-O	BL33		17R		T22	V-O	BL83		
		R22	O-V	BL32		17T		R22	O-V	BL82		
		T23	V-G	BL35		18R		T23	V-G	BL85		
		R23	G-V	BL34		18T		R23	G-V	BL84		
		T24	V-BR	BL37		19R		T24	V-BR	BL87		
		R24	BR-V	BL36		19T		R24	BR-V	BL86		
		T25	V-S	BL39	↓	20R		T25	V-S	BL89		
		R25	S-V	BL38	A7	20T		R25	S-V	BL88		

* When BL leads 80 thru 89 are required, move cross-connect wires from A10, terminals T16 thru R20, to B10, terminals T21 thru R25.

TABLE D
SECOND 4-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C		CROSS-CONNECT TO			CONSOLE CABLE A100C		CROSS-CONNECT TO			
CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	
BL-W BINDER – CONNECTION BLOCK A11	T1	W-BL	TL1	A5	T23	T1	W-BL	SL10	A6	R15
	R1	BL-W	ACA1	A5	T24	R1	BL-W	SL9	B6	R6
	T2	W-O	TL2	B5	T3	T2	W-O	SL12	B6	R10
	R2	O-W	ACA2	↑	T4	R2	O-W	SL11	A6	R19
	T3	W-G	TL3	↓	T8	T3	W-G	SL14		
	R3	G-W	ACA3	B5	T9	R3	G-W	SL13	B6	R14
	T4	W-BR	TL4	A6	T3	T4	W-BR	LG1	B3	T23
	R4	BR-W	ACA4	↑	T4	R4	BR-W	SL15		
	T5	W-S	TL5		T7	T5	W-S	LG3	B3	T23
	R5	S-W	ACA5		T8	R5	S-W	LG2	B3	R23
	T6	R-BL	TL6		T11	T6	R-BL			
	R6	BL-R	ACA6		T12	R6	BL-R			
	O-W BINDER – CONNECTION BLOCK B11	T7	R-O	TL7	↓	T23	T7	R-O	B20	B8
R7		O-R	ACA7	A6	T24	R7	O-R			
T8		R-G	TL8	B6	T2	T8	R-G	B40	B8	T12
R8		G-R	ACA8	↑	T3	R8	G-R	B30		R11
T9		R-BR	TL9	↓	T6	T9	R-BR	B60		T13
R9		BR-R	ACA9	B6	T7	R9	BR-R	B50		R12
T10		R-S	TL10	A6	T15	T10	R-S	B80		T14
R10		S-R	ACA10	↑	T16	R10	S-R	B70	B8	R13
T11		BK-BL	TL11	↓	T19	T11	BK-BL			
R11		BL-BK	ACA11	A6	T20	R11	BL-BK			
T12		BK-O	TL12	B6	T10	T12	BK-O	TRG	B3	R23
R12		O-BK	ACA12	↑	T11	R12	O-BK			
T13		BK-G	TL13	↓	T14	T13	BK-G	TT	B9	T14
R13	G-BK	ACA13	B6	T15	R13	G-BK	TR	B9	R14	

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TABLE D (Cont)
SECOND 4-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C					CROSS-CONNECT TO		CONSOLE CABLE A100C					CROSS-CONNECT TO	
CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.			CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.		
T14	BK-BR	TL14					T14	BK-BR	TT1	†			
R14	BR-BK	ACA14					R14	BR-BK	TR1	†			
T15	BK-S	TL15					T15	BK-S	AT2	B5	T14		
R15	S-BK	ACA15					R15	S-BK	BT2	B5	R14		
T16	Y-BL	T10	*				T16	Y-BL	SG	B5	T24		
R16	BL-Y	R10					R16	BL-Y	TRL				
T17	Y-O	T11					T17	Y-O	SG1	†			
R17	O-Y	R11					R17	O-Y	BZ	B5	T15		
T18	Y-G	T12					T18	Y-G	SG3	B8	T5		
R18	G-Y	R12					R18	G-Y	SG2	B8	R5		
T19	Y-BR	T13					T19	Y-BR	G	†			
R19	BR-Y	R13					R19	BR-Y	ACG	B5	T12		
T20	Y-S	T14					T20	Y-S	NSG				
R20	S-Y	R14					R20	S-Y	NS				
T21	V-BL	T15					T21	V-BL	ARB	B5	R17		
R21	BL-V	R15					R21	BL-V	ARBG	B3	R23		
T22	V-O	SL2	B5	R3			T22	V-O	H	B5	T16		
R22	O-V	SL1	A5	R23			R22	O-V	NTG	B5	R12		
T23	V-G	SL4	A6	R3			T23	V-G					
R23	G-V	SL3	B5	R8			R23	G-V					
T24	V-BR	SL6	A6	R11			T24	V-BR					
R24	BR-V	SL5	A6	R7			R24	BR-V					
T25	V-S	SL8	B6	R2			T25	V-S					
R25	S-V	SL7	A6	R23			R25	S-V					

* Console T and R leads 10 thru 15 (cable pairs 16 thru 21) are used to pick up miscellaneous equipment requiring individual T and R leads.

† If a key set is *not* provided, connect SG1 lead to B5-T24.

If a key set is provided, connect SG1 lead to B3-R24, TT1 lead to B5-T11, TR1 lead to B5-R11, and G lead to B5-T12.

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TABLE D (Cont)
SECOND 4-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNECT TERMINAL DATA

CONSOLE CABLE A100C					CROSS-CONNECT TO		CONSOLE CABLE A100C					CROSS-CONNECT TO	
G-W BINDER – CONNECTING BLOCK A12	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	BR-W BINDER – CONNECTING BLOCK B12	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.		
	T1	W-BL						T1	W-BL	BL41	B7	R6	
	R1	BL-W						R1	BL-W	BL40	▲	T6	
	T2	W-O						T2	W-O	BL43		R7	
	R2	O-W						R2	O-W	BL42		T7	
	T3	W-G						T3	W-G	BL45		R8	
	R3	G-W						R3	G-W	BL44		T8	
	T4	W-BR						T4	W-BR	BL47		R9	
	R4	BR-W						R4	BR-W	BL46		T9	
	T5	W-S	TG		B3		T23	T5	W-S	BL49		R10	
	R5	S-W						R5	S-W	BL48		T10	
	T6	R-BL	T3		A8		R21	T6	R-BL	BL51		R11	
	R6	BL-R	T2		▲		T21	R6	BL-R	BL50		T11	
	T7	R-O	T5				R22	T7	R-O	BL53		R12	
R7	O-R	T4			T22	R7	O-R	BL52		T12			
T8	R-G	T7		▼	R23	T8	R-G	BL55		R13			
R8	G-R	T6		A8	T23	R8	G-R	BL54		T13			
T9	R-BR	H1		B8	R4	T9	R-BR	BL57		R14			
R9	BR-R	T8		A8	T24	R9	BR-R	BL56		T14			
T10	R-S	U1		A8	T25	T10	R-S	BL59	▼	R15			
R10	S-R	HG		B3	T23	R10	S-R	BL58	B7	T15			
T11	BK-BL	U3		B8	T1	T11	BK-BL	BL61	A8	R1			
R11	BL-BK	U2		A8	R25	R11	BL-BK	BL60	▲	T1			
T12	BK-O	U5		B8	T2	T12	BK-O	BL63		R2			
R12	O-BK	U4		B8	R1	R12	O-BK	BL62	▼	T2			
T13	BK-G	U7		B8	T3	T13	BK-G	BL65	A8	R3			

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TABLE D (Cont)											
SECOND 4-TYPE CONSOLE – WALL-MOUNTED CROSS-CONNEC TERMINAL DATA											
CONSOLE CABLE A100C				CROSS-CONNECT TO		CONSOLE CABLE A100C				CROSS-CONNECT TO	
G-W BINDER – CONNECTING BLOCK A12	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	BR-W BINDER – CONNECTING BLOCK B12	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.
	R13	G-BK	U6	B8	R2		R13	G-BK	BL64	A8	T3
	T14	BK-BR	U9		T4		T14	BK-BR	BL67	▲	R4
	R14	BR-BK	U8	B8	R3		R14	BR-BK	BL66		T4
	T15	BK-S	UG	B3	T23		T15	BK-S	BL69		R5
	R15	S-BK	U0	A8	R4		R15	S-BK	BL68		T5
	T16	Y-BL	BL21	*A7	R11		T16	Y-BL	BL71		R6
	R16	BL-Y	BL20	▲	T11		R16	BL-Y	BL70		T6
	T17	Y-O	BL23		R12		T17	Y-O	BL73		R7
	R17	O-Y	BL22		T12		R17	O-Y	BL72		T7
	T18	Y-G	BL25		R13		T18	Y-G	BL75		R8
	R18	G-Y	BL24		T13		R18	G-Y	BL74		T8
	T19	Y-BR	BL27		R14		T19	Y-BR	BL77		R9
	R19	BR-Y	BL26		T14		R19	BR-Y	BL76		T9
	T20	Y-S	BL29		R15		T20	Y-S	BL79	▼	R10
	R20	S-Y	BL28		T15		R20	S-Y	BL78	A8	T10
	T21	V-BL	BL31		R16		T21	V-BL	BL81	*	
	R21	BL-V	BL30		T16		R21	BL-V	BL80		
	T22	V-O	BL33		R17		T22	V-O	BL83		
	R22	O-V	BL32		T17		R22	O-V	BL82		
	T23	V-G	BL35		R18		T23	V-G	BL85		
	R23	G-V	BL34		T18		R23	G-V	BL84		
	T24	V-BR	BL37		R19		T24	V-BR	BL87		
	R24	BR-V	BL36		T19		R24	BR-V	BL86		
	T25	V-S	BL39	▼	R20		T25	V-S	BL89		
	R25	S-V	BL38	A7	T20		R25	S-V	BL88		

* When BL leads 80 thru 89 are required, move cross-connect wires from A12, terminals T16 thru R20, to B12, terminals T21 thru R25.

SUMMARY

This procedure is for installation of the 565GK and 2565GK (TOUCH-TONE®) key telephone sets for use as attendant equipment.

- [1] Mount a 66E3-25 or 66E4-25 connecting block within reach of telephone set mounting cord
- [2] Layout a 25-pair local cable from 66-type connecting block to cross-connect terminal
- [3] Install straps on 66-type connecting block terminals per TABLE A
- [4] Connect the 25-pair local cable to the 66-type connecting block per TABLE B
- [5] Mate plug of telephone set mounting cord with connector on 66-type connecting block

Telephone set mounting cord and local cable connected at 66-type connecting block

AND

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TABLE A

66E-TYPE
CONNECTING BLOCK
STRAPS

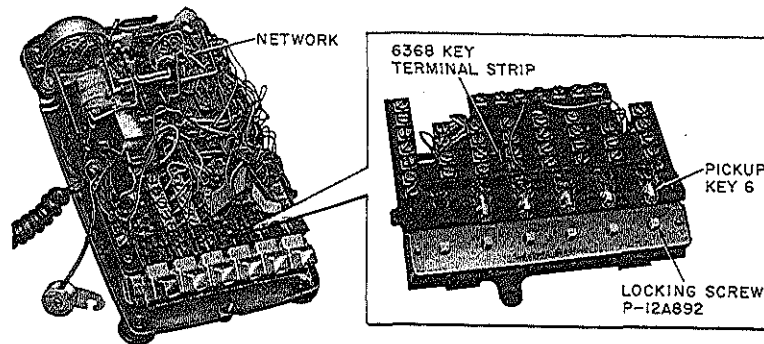
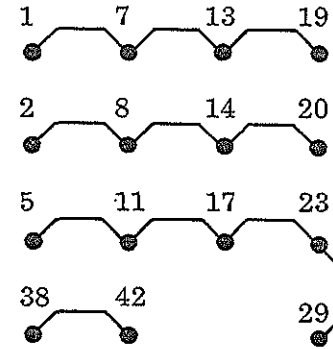


FIG. 1

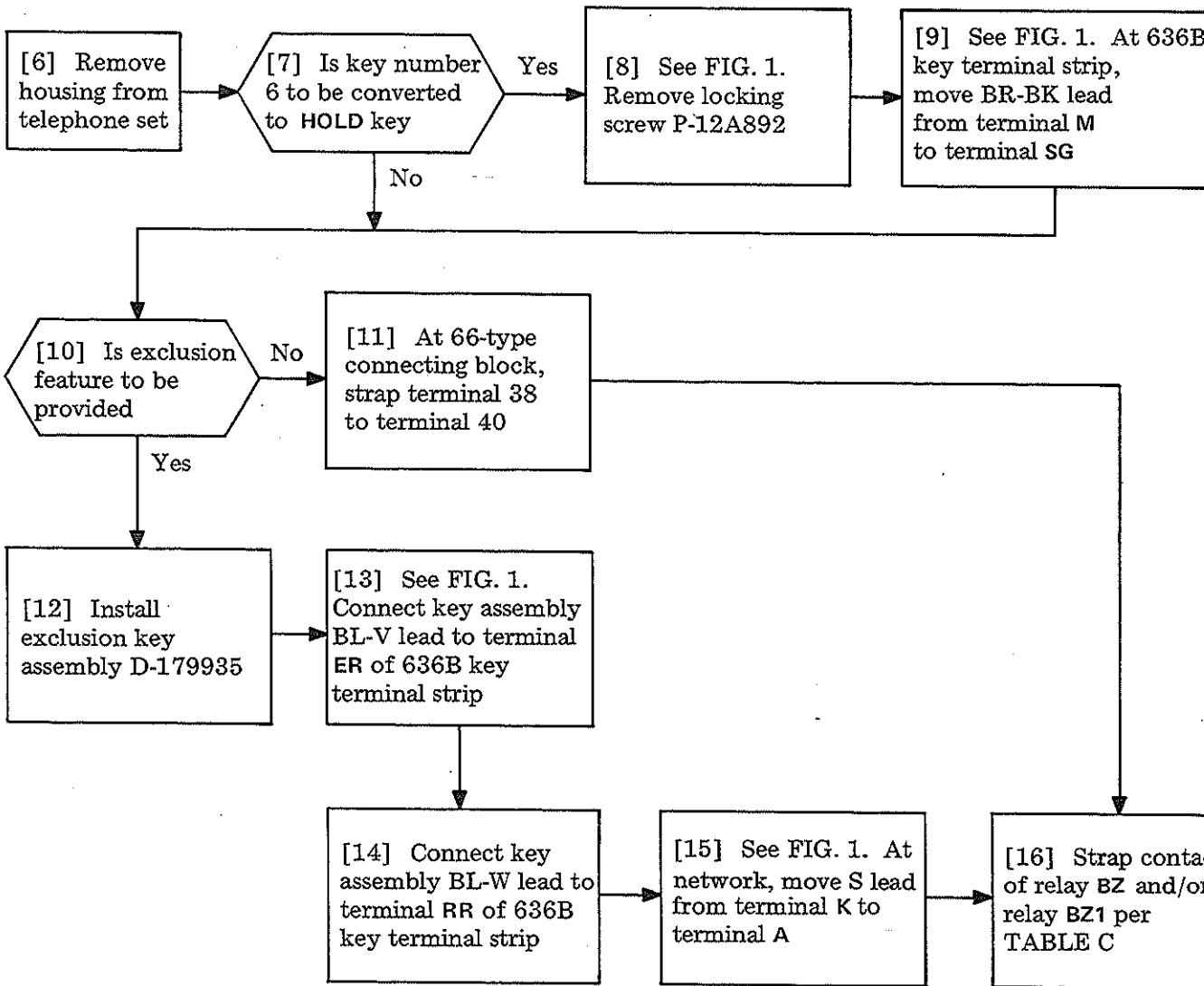
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**TABLE B
25-PAIR LOCAL CABLE TERMINATION**

66E-TYPE CONNECTING BLOCK	25-PAIR LOCAL CABLE CONNECT TO:			WALL-MOUNTED CROSS-CONNECT TERMINAL		OR PRE-WIRED CROSS CONNECT TERMINAL		FEATURE AND/OR USE
	PAIR	COLOR	LEAD DESIG.	CONN. BLOCK	CONN. BLOCK TERM. NO.	CONN. BLOCK	CONN. BLOCK TERM. NO.	
	← AND →							
1	1T	W-BL	TT	B5	T11	C2	T13	Chained lead
2	1R	BL-W	TR	B5	R11	C2	R13	Chained lead
3	2T	W-O	ACA-1	A6	T4	C1	R4	First CO TRK pickup
4	2R	O-W	ACG	B5	T12	C2	R19	Chained lead
5	3T	W-G	AP	B3	T24	D2	T24	
6	3R	G-W	L1	A6	R4	D4	R3	First CO TRK pickup lamp
9	4T	W-BR	ACA-2	A6	T8	C1	R5	Second CO TRK pickup
10	4R	BR-W	NS	B5	R15	C2	R20	Nite service
12	5T	W-S	L2	A6	R8	D4	T4	Second CO TRK pickup lamp
15	5R	S-W	ACA-3	A6	T12	C1	R6	Third CO TRK pickup
18	6T	W-BL	L3	A6	R12	D4	R4	Third CO TRK pickup
19*								
20*								
21	6R	BL-R	ACA-4	A5	T24	C1	R1	First ATND TRK pickup
24	7T	R-O	L4	A5	R24	D4	T1	First ATND TRK pickup lamp
25*, †	8T	R-G	T					Station or fifth
26*, †	8R	G-R	R					TRK pickup
27†	7R	O-R	ACA-5	B5	T4	C1	R2	
28	9T	R-BR	SG	B3	R24	D2	R24	Chained lead
30†	9R	BR-R	SL3	B5	R4	D4	R1	
33	10T	R-S	H	B5	T16	C2	T22	Hold
34	10R	S-R	NTG, DB	B5	R12	C2	R22	Dial back
39	11T	BK-BL	BZ	B5	R24	D4	T3	Audible signal
42	11R	BL-BK	RC	B5	R16	D4	R2	
44	12T	BK-O	RA	B5	T24	C2	T17	Remote answer
	Pairs 13 thru 25							Spares

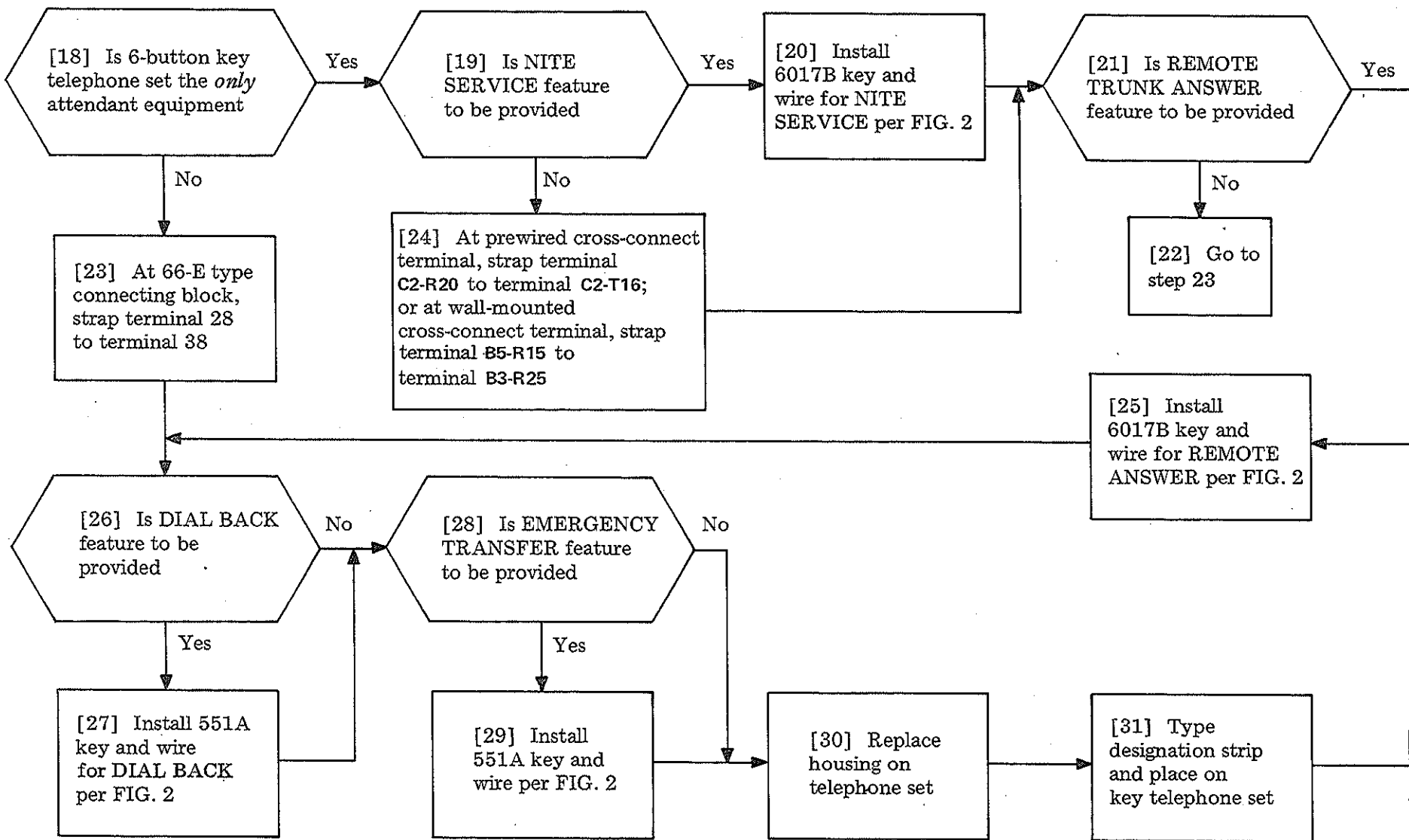
* If fifth key is used for trunk pickup, strap 66E-type connecting block as follows:
terminal 19 to 25
terminal 20 to 26

† If fifth key is used for station pickup:
a. Install external ringer for station pickup
b. Connect 25-pair cable leads 8T and 8R at 66E-type connecting block (terminals 25 and 26) and at cross-connecting terminal to the station tip and ring leads to be used
c. Tie back local cable leads 7R and 9R



DESIGNATION OF TRUNK PICKED UP AT KEY IS:	STRAP*	
	RELAY	CONTACTS
CO TRK 0	BZ	1B to 1M
CO TRK 1	↑	2B to 2M
CO TRK 2		3B to 3M
CO TRK 3		4B to 4M
CO TRK 4		5B to 5M
CO TRK 5		6B to 6M
CO TRK 6		7B to 7M
CO TRK 7		8B to 8M
CO TRK 8	↓	9B to 9M
CO TRK 9	BZ	10B to 10M
ATND TRK 0	BZ1	1B to 1M
ATND TRK 1	BZ1	2B to 2M
ATND TRK 2	BZ1	3B to 3M

* 1. Relays BZ and BZ1 are located in slide 5 at position V.
 2. Straps are installed on apparatus (wiring) side of relays



* ONLY ONE NITE SERVICE KEY MAY BE CONNECTED FOR PBX

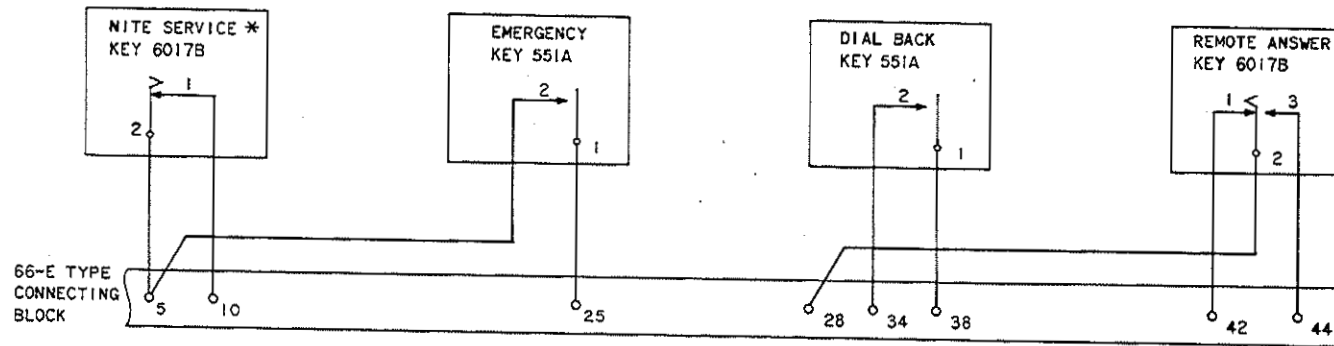


FIG. 2

INSTALL ATTENDANT KEY TELEPHONE (6-BUTTON) SET

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SUMMARY

The 556A switchboard is used only in the 100-series PBX and then as the first attendant position.

[1] See DANGER and CAUTION. Place switchboard in position and fasten to floor [FIG. 1 and NOTE 1].

[2] Mount the writing shelf on switchboard [FIG. 2]

[3] Install additional CO trunk units J59013F, as required, to a maximum of ten. [FIG. 2]

[4] Install additional cord units J59013E, as required, to a maximum of 15. [FIG. 2]

[5] Install AUX CO TRK unit J58829AF, L1 in optional auxiliary cabinet 4 or other auxiliary cabinet. (See DLP-500 for cabinet installation)

AND

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NOTE 1

When PBX is installed on a metal surface, such as the expansion shields used in terrazzo floors, insulate framework with wood strips and install dust shields.

CAUTION

Do not drill floors containing radiant heat. In such instances, place PBX on a rubber mat or similar nonskid material.

DANGER

Care should be taken when moving switchboard due to weight

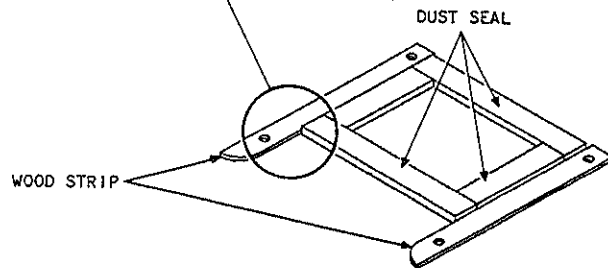
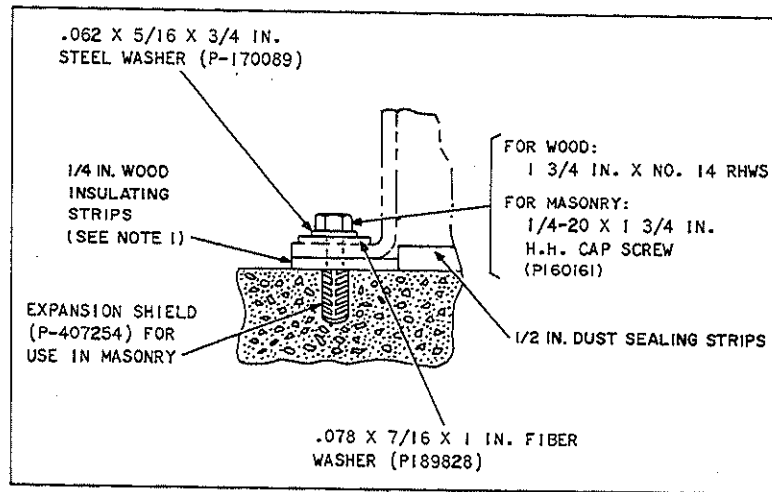


FIG. 1

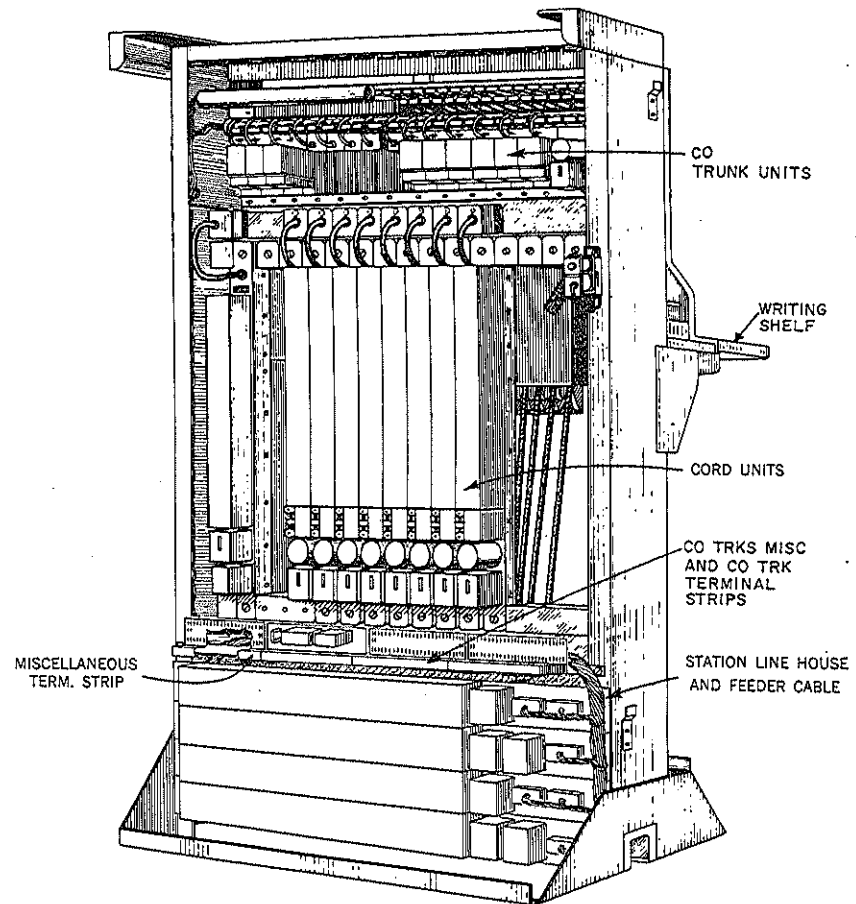


FIG. 2

INSTALL 556A SWITCHBOARD

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[6] Lay out supplementary switchboard cable J58829A, L7 from PBX crown to cross-connect terminal

[7] Mate connectors of cable J58829A, L7 at PBX crown [FIG. 3]

[8] In slide 1 branch of cable J58829A, L7 dress O-V lead into existing crown cable and wire wrap or solder to plug A, pin 10

[9] Lay out supplementary cable J58829AF, L3 from PBX crown to auxiliary cabinet

[10] Mate connectors of J58829AF, L3 cable at PBX crown and at auxiliary cabinet [FIG. 4]

Crown cables connected at PBX. Cable from PBX to auxiliary cabinet connected

AND

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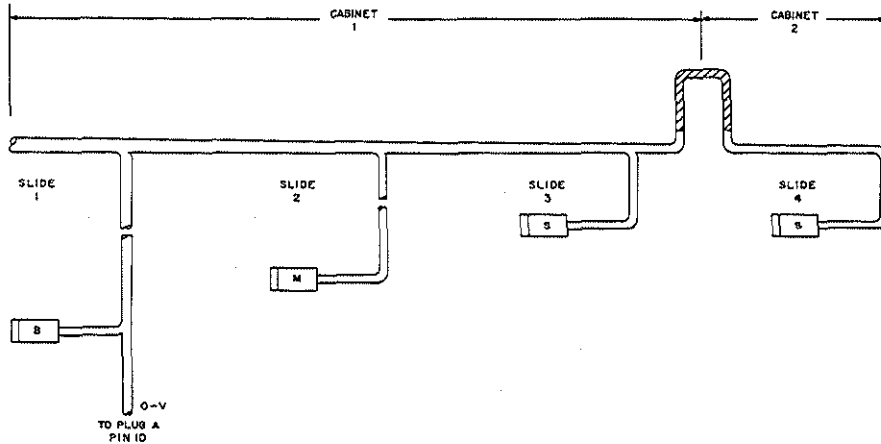


FIG. 3

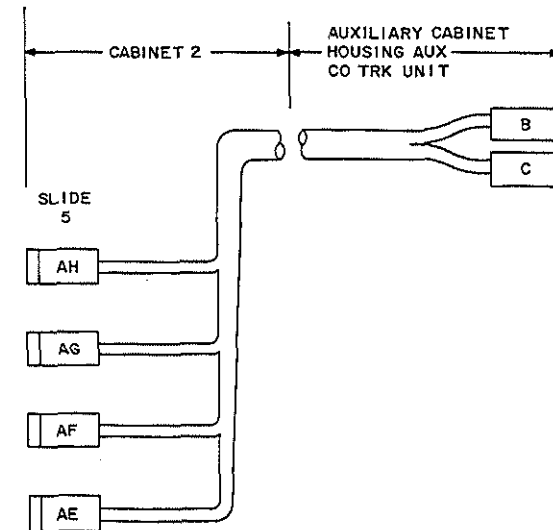


FIG. 4

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- [11] Layout 100-pair station line house and feeder cable J59018F, L3 from switchboard to cross-connect terminal
- [12] Mate connectors of cable J59018F, L3 at rear of switchboard [FIG. 2]
- [13] Lay out 75-pair D inside wiring cable from switchboard to cross-connect terminal
- [14] Cut down 75-pair D inside wiring cable on switchboard CO TRKS MISC and CO TRK terminal strips [FIG. 2 and 5] per TABLE A.

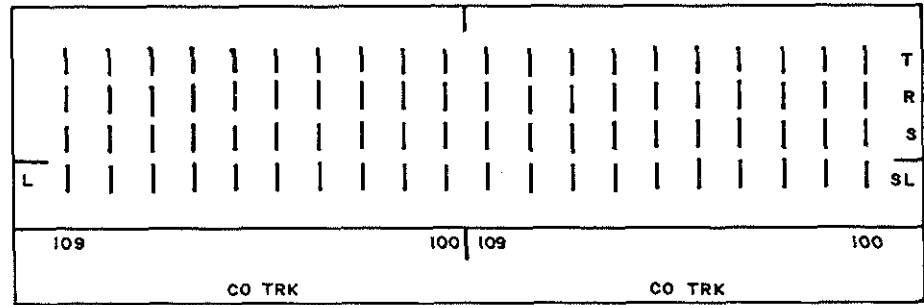
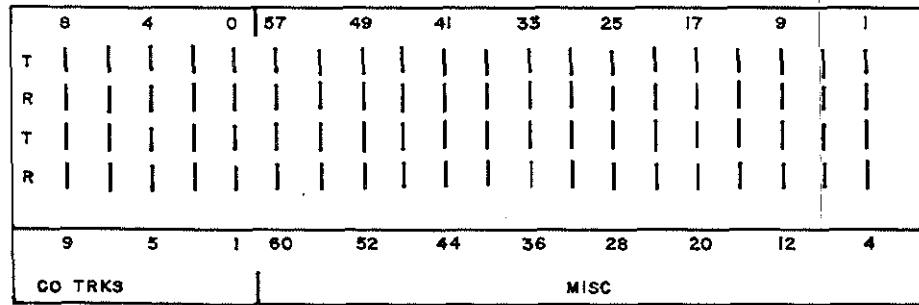
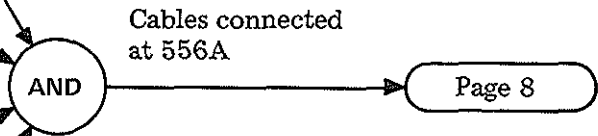


FIG. 5

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TABLE A
75-PAIR D INSIDE WIRING CABLE CONNECTIONS AT SWITCHBOARD 556A

75-PAIR CABLE			CONNECT TO 556A		75-PAIR CABLE			CONNECT TO 556A			
PAIR	COLOR	LEAD DESIG.	TERM. STRIP	TERM. NO.	PAIR	COLOR	LEAD DESIG.	TERM. STRIP	TERM. NO.		
BL-W BINDER	1T	W-BL	T	CO TRKS	T0	BL-W BINDER	13R	G-BK	R	MISC	50
	1R	BL-W	R	↑	R0		14T	BK-BR	TL	↑	51
	2T	W-O	T		T1		14R	BR-BK	BL		52
	2R	O-W	R		R1		15T	BK-S	T		53
	3T	W-G	T		T2		15R	S-BK	R		54
	3R	G-W	R		R2		16T	Y-BL	TL		55
	4T	W-BR	T		T3		16R	BL-Y	BL		56
	4R	BR-W	R		R3		17T	Y-O	ON-0		57
	5T	W-S	T		T4		17R	O-Y	ON-1		58
	5R	S-W	R		R4		18T	Y-G	ON-2		59
	6T	R-BL	T		T5		18R	G-Y	A		60
	6R	BL-R	R		R5		19T	Y-BR	ACG		35
	7T	R-O	T		T6		19R	BR-Y	TRL		17
	7R	O-R	R		R6		20T	Y-S	SG		37
	8T	R-G	T		T7		20R	S-Y	ACG1		36
	8R	G-R	R		R7		21T	V-BL	AP5		9
	9T	R-BR	T		T8		21R	BL-V	AP6		10
	9R	BR-R	R		R8		22T	V-O	AP7		11
	10T	R-S	T	↓	T9		22R	O-V	AP8		12
	10R	S-R	R	CO TRKS	R9		23T	V-G	AP2		9
	11T	BK-BL	*T	MISC	45		23R	G-V	AP2 BAT		38
	11R	BL-BK	R	↑	46		24T	V-BR	SB		10
	12T	BK-O	TL	↓	47		24R	BR-V	SB BAT		39
	12R	O-BK	BL	↓	48		25T	V-S	SC-G	↓	11
	13T	BK-G	T	MISC	49		25R	S-V	SC-B	MISC	40

* Pairs 11 through 18 are used for attendant trunks.

TABLE A (Cont)
75-PAIR D INSIDE WIRING CABLE CONNECTIONS AT SWITCHBOARD 556A

75-PAIR CABLE			CONNECT TO 556A		75-PAIR CABLE			CONNECT TO 556A			
O-W BINDER	PAIR	COLOR	LEAD DESIG.	TERM. STRIP	TERM. NO.	O-W BINDER	PAIR	COLOR	LEAD DESIG.	TERM. STRIP	TERM. NO.
		1T	W-BL	SD	MISC		12		13R	G-BK	Spare
	1R	BL-W	SD	↑	41		14T	BK-BR	↑		
	2T	W-O	SE		13		14R	BR-BK			
	2R	O-W	SE		42		15T	BK-S			
	3T	W-G	SF		14		15R	S-BK			
	3R	G-W	SF		43		16T	Y-BL			
	4T	W-BR	SG		15		16R	BL-Y			
	4R	BR-W	SG		44		17T	Y-O			
	5T	W-S	*RG		21		17R	O-Y			
	5R	S-W	*CR		23		18T	Y-G			
	6T	R-BL	RG		20		18R	G-Y			
	6R	BL-R	CR		18		19T	Y-BR			
	7T	R-O	BZ	↓	19		19R	BR-Y			
	7R	O-R	FF1	MISC	34		20T	Y-S			
	8T	R-G	Spare				20R	S-Y			
	8R	G-R	↑				21T	V-BL			
	9T	R-BR					21R	BL-V			
	9R	BR-R					22T	V-O			
	10T	R-S					22R	O-V			
	10R	S-R					23T	V-G			
	11T	BK-BL					23R	G-V			
	11R	BL-BK					24T	V-BR			
	12T	BK-O					24R	BR-V			
	12R	O-BK	↓				25T	V-S	↓		
	13T	BK-G	Spare				25R	S-V	Spare		

* RG and CR are associated with the ringdown tie trunk circuit.

TABLE A (Cont)
75-PAIR D INSIDE WIRING CABLE CONNECTIONS AT SWITCHBOARD 556A

75-PAIR CABLE			CONNECT TO 556A		75-PAIR CABLE			CONNECT TO 556A		
PAIR	COLOR	LEAD DESIG.	TERM. STRIP	TERM. NO.	PAIR	COLOR	LEAD DESIG.	TERM. STRIP	TERM. NO.	
G-W BINDER	1T	W-BL	T0	CO TRK	100T	13R	G-BK	T5	CO TRK	105T
	1R	BL-W	R0	▲	100R	14T	BK-BR	R5	▲	105R
	2T	W-O	S0		100S	14R	BR-BK	S5		105S
	2R	O-W	SL0		100SL	15T	BK-S	SL5		105SL
	3T	W-G	L0		100L	15R	S-BK	L5		105L
	3R	G-W	T1		101T	16T	Y-BL	T6		106T
	4T	W-BR	R1		101R	16R	BL-Y	R6		106R
	4R	BR-W	S1		101S	17T	Y-O	S6		106S
	5T	W-S	SL1		101SL	17R	O-Y	SL6		106SL
	5R	S-W	L1		101L	18T	Y-G	L6		106L
	6T	R-BL	T2		102T	18R	G-Y	T7		107T
	6R	BL-R	R2		102R	19T	Y-BR	R7		107R
	7T	R-O	S2		102S	19R	BR-Y	S7		107S
	7R	O-R	SL2		102SL	20T	Y-S	SL7		107SL
	8T	R-G	L2		102L	20R	S-Y	L7		107L
	8R	G-R	T3		103T	21T	V-BL	T8		108T
	9T	R-BR	R3		103R	21R	BL-V	R8		108R
	9R	BR-R	S3		103S	22T	V-O	S8		108S
	10T	R-S	SL3		103SL	22R	O-V	SL8		108SL
	10R	S-R	L3		103L	23T	V-G	L8		108L
	11T	BK-BL	T4		104T	23R	G-V	T9		109T
	11R	BL-BK	R4		104R	24T	V-BR	R9		109R
	12T	BK-O	S4		104S	24R	BR-V	S9		109S
	12R	O-BK	SL4		104SL	25T	V-S	SL9	▼	109SL
	13T	BK-G	L4	CO TRK	104L	25R	S-V	L9	CO TRK	109L

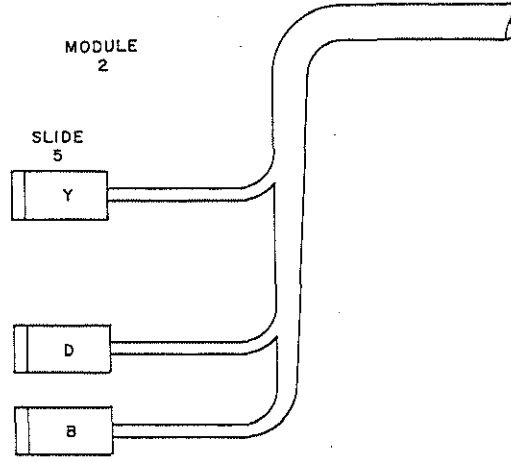
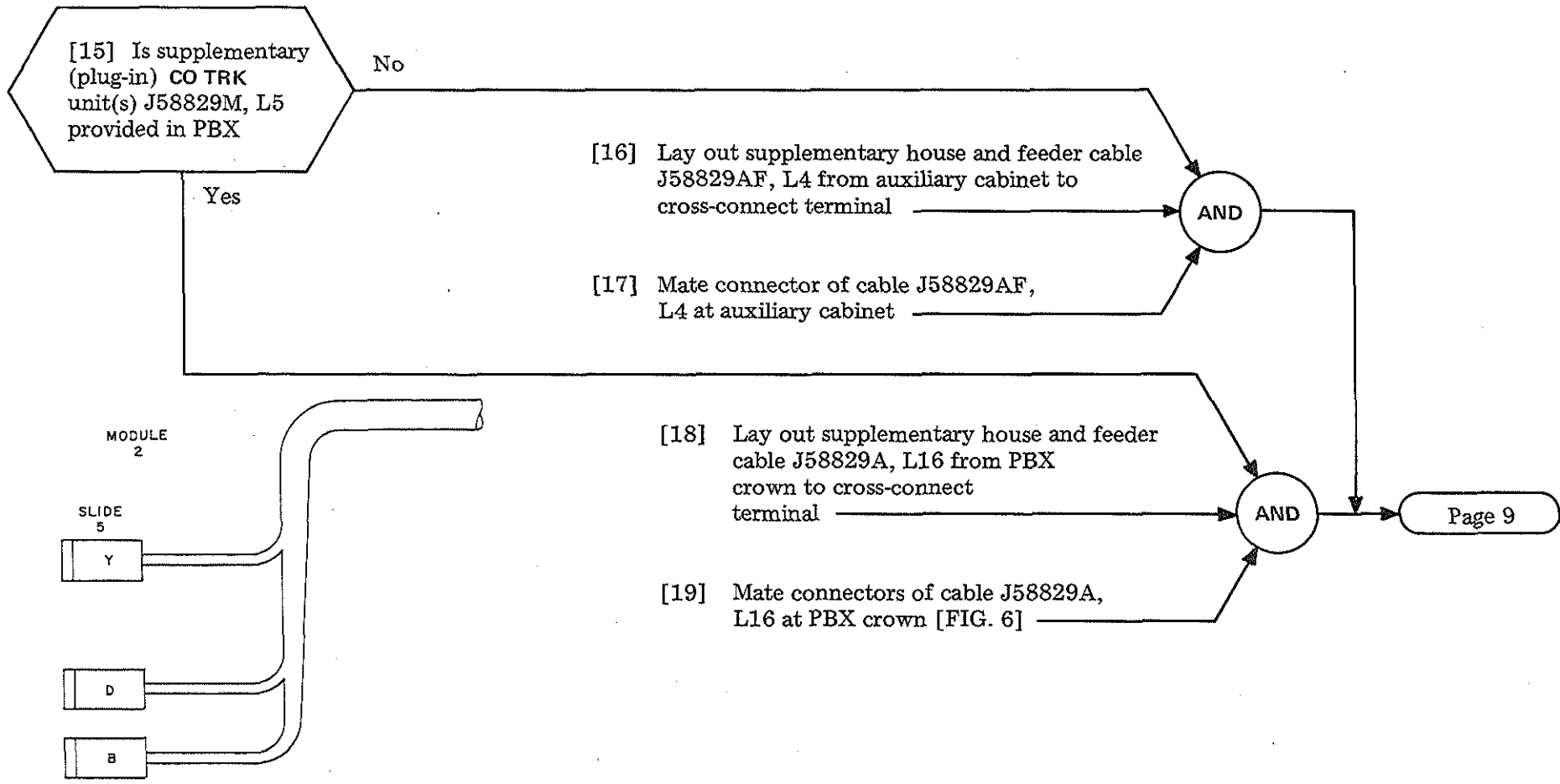


FIG. 6

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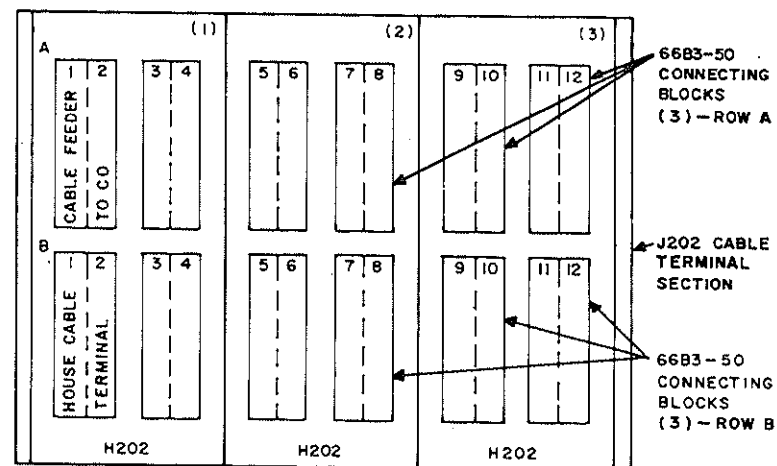
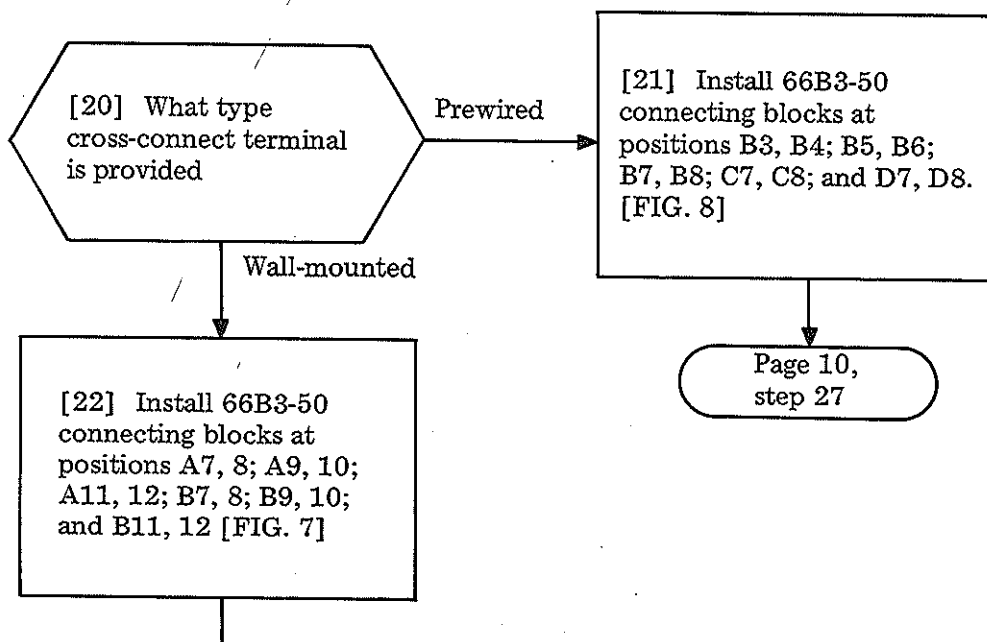


FIG. 7

- [23] Cut down 100-pair station line cable J59018F, L3 at connecting blocks A7, B7, A8, and B8
- [24] Cut down 75-pair inside wiring cable at connecting blocks A9, B9, and A10.
- [25] Cut down supplementary switchboard cable J58829A, L7 at connecting blocks A11 and B11.
- [26] See Step 15. Cut down supplementary house and feeder cable J58829AF, L4 or J58829A, L16 on connecting block A12 per TABLE B

AND

Cables cut down at wall-mounted cross-connect terminal

Page 10, step 31

- [27] Cut down 100-pair station line cable J59018F, L3 on connecting blocks B3, B4, B5, and B6 [FIG. 8]
- [28] Cut down 75-pair D inside wiring cable on connecting blocks B7, C7, and D7 [FIG. 8]
- [29] Cut down supplementary switchboard cable J58829A, L7 on connecting blocks B8 and C8 [FIG. 8]
- [30] See step 15. Cut down supplementary house and feeder cable J58829AF, L4 or J58829A, L16 on connecting block D8 per TABLE B

Cables cut down at prewired cross-connect terminal



- [31] Wire strap from make contact 10 to fixed contact 10 on relay R of each CO TRK unit. These relays are located on slide 5, cabinet 2.

- [32] Install cross-connections per TABLES C, D, and E

- [33] Mark 556A switchboard designation strip per TABLES C, D, and E

556A installed

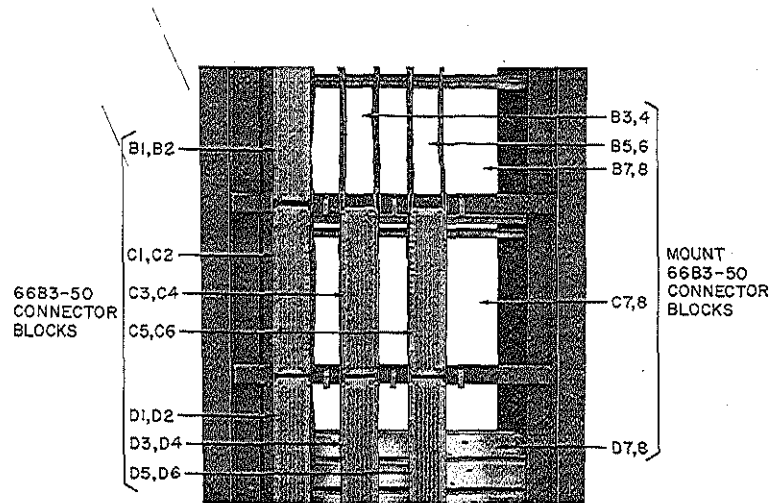


FIG. 8

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TABLE B													
*CONNECT CABLE J58829AF, L4 (BL-W BINDER)			TO CROSS-CONNECT TERMINAL				*CONNECT CABLE J58829AF, L4 (BL-W BINDER)			TO CROSS-CONNECT TERMINAL			
			PREWIRED		WALL-MOUNTED					PREWIRED		WALL-MOUNTED	
PAIR	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	PAIR	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.
1T	W-BL	L1	D8	T1	A12	T1	13R	G-BK	SL4	D8	R13	A12	R13
1R	BL-W	L0	▲	R1	▲	R1	14T	BK-BR	SL7	▲	T14	▲	T14
2T	W-O	L3		T2		T2	14R	BR-BK	SL6		R14		R14
2R	O-W	L2		R2		R2	15T	BK-S	SL9		T15		T15
3T	W-G	L5		T3		T3	15R	S-BK	SL8		R15		R15
3R	G-W	L4		R3		R3	16T	Y-BL	T0		T16		T16
4T	W-BR	L7		T4		T4	16R	BL-Y	R0		R16		R16
4R	BR-W	L6		R4		R4	17T	Y-O	T1		T17		T17
5T	W-S	L9		T5		T5	17R	O-Y	R1		R17		R17
5R	S-W	L8		R5		R5	18T	Y-G	T2		T18		T18
6T	R-BL	S1		T6		T6	18R	G-Y	R2		R18		R18
6R	BL-R	S0		R6		R6	19T	Y-BR	T3		T19		T19
7T	R-O	S3		T7		T7	19R	BR-Y	R3		R19		R19
7R	O-R	S2		R7		R7	20T	Y-S	T4		T20		T20
8T	R-G	S5		T8		T8	20R	S-Y	R4		R20		R20
8R	G-R	S4		R8		R8	21T	V-BL	T5		T21		T21
9T	R-BR	S7		T9		T9	21R	BL-V	R5		R21		R21
9R	BR-R	S6		R9		R9	22T	V-O	T6		T22		T22
10T	R-S	S9		T10		T10	22R	O-V	R6		R22		R22
10R	S-R	S8		R10		R10	23T	V-G	T7		T23		T23
11T	BK-BL	SL1		T11		T11	23R	G-V	R7		R23		R23
11R	BL-BK	SL0		R11		R11	24T	V-BR	T8		T24		T24
12T	BK-O	SL3		T12		T12	24R	BR-V	R8		R24		R24
12R	O-BK	SL2	▼	R12	▼	R12	25T	V-S	T9	▼	T25	▼	T25
13T	BK-G	SL5	D8	T13	A12	T13	25R	S-V	R9	D8	R25	A12	R25

* Refer to steps [15] and [26] for additional information regarding these cables.

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TABLE B (Cont)

*CONNECT CABLE J58829, L16 (BL-W BINDER)			TO CROSS-CONNECT TERMINAL				*CONNECT CABLE J58829, L16 (BL-W BINDER)			TO CROSS-CONNECT TERMINAL			
			PREWIRED		WALL-MOUNTED					PREWIRED		WALL-MOUNTED	
PAIR	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	PAIR	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.
1T	W-BL	T0	D8	T1	A12	T1	13R	G-BK	S5	D8	R13	A12	R13
1R	BL-W	R0	▲	R1	▲	R1	14T	BK-BR	S6	▲	T14	▲	T14
2T	W-O	T1		T2		T2	14R	BR-BK	S7		R14		R14
2R	O-W	R1		R2		R2	15T	BK-S	S8		T15		T15
3T	W-G	T2		T3		T3	15R	S-BK	S9		R15		R15
3R	G-W	R2		R3		R3	16T	Y-BL	SL0		T16		T16
4T	W-BR	T3		T4		T4	16R	BL-Y	L0		R16		R16
4R	BR-W	R3		R4		R4	17T	Y-O	SL1		T17		T17
5T	W-S	T4		T5		T5	17R	O-Y	L1		R17		R17
5R	S-W	R4		R5		R5	18T	Y-G	SL2		T18		T18
6T	R-BL	T5		T6		T6	18R	G-Y	L2		R18		R18
6R	BL-R	R5		R6		R6	19T	Y-BR	SL3		T19		T19
7T	R-O	T6		T7		T7	19R	BR-Y	L3		R19		R19
7R	O-R	R6		R7		R7	20T	Y-S	SL4		T20		T20
8T	R-G	T7		T8		T8	20R	S-Y	L4		R20		R20
8R	G-R	R7		R8		R8	21T	V-BL	SL5		T21		T21
9T	R-BR	T8		T9		T9	21R	BL-V	L5		R21		R21
9R	BR-R	R8		R9		R9	22T	V-O	SL6		T22		T22
10T	R-S	T9		T10		T10	22R	O-V	L6		R22		R22
10R	S-R	R9		R10		R10	23T	V-G	SL7		T23		T23
11T	BK-BL	S0		T11		T11	23R	G-V	L7		R23		R23
11R	BL-BK	S1		R11		R11	24T	V-BR	SL8		T24		T24
12T	BK-O	S2		T12		T12	24R	BR-V	L8		R24		R24
12R	O-BK	S3	▼	R12	▼	R12	25T	V-S	SL9	▼	T25	▼	T25
13T	BK-G	S4	D8	T13	A12	T13	25R	S-V	L9	D8	R25	A12	R25

* Refer to steps [15] and [26] for additional information regarding these cables.

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TABLE C (Cont)

75-PAIR D INSIDE WIRING CABLE		CROSS-CONNECT TO:						75-PAIR D INSIDE WIRING CABLE		CROSS-CONNECT TO:				
		PREWIRED TERM.		WALL-MOUNTED TERM.						PREWIRED TERM.		WALL-MOUNTED TERM.		
TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	
T1	W-BL	SD	C8	12T	B11	12T		R13	G-BK	Spare				
R1	BL-W	SD	↑	12R	↑	12R		T14	BK-BR	↑				
T2	W-O	SE		13T		13T		R14	BR-BK					
R2	O-W	SE		13R		13R		T15	BK-S					
T3	W-G	SF		14T		14T		R15	S-BK					
R3	G-W	SF		14R		14R		T16	Y-BL					
T4	W-BR	SG	↓	15T	↓	15T		R16	BL-Y					
R4	BR-W	SG	C8	15R	B11	15R		T17	Y-O					
T5	W-S	RG	To ringdown tie trunk circuit					R17	O-Y					
R5	S-W	CR									T18	Y-G		
T6	R-BL	RG	D5	1T	B3	16T		R18	G-Y					
R6	BL-R	CR	D5	1R	B3	16R		T19	Y-BR					
T7	R-O	BZ	C2	17R	B5	15T		R19	BR-Y					
R7	O-R	†FF1	C8	16R	B11	16R		T20	Y-S					
T8	R-G	Spare						R20	S-Y					
R8	G-R	↑						T21	V-BL					
T9	R-BR							R21	BL-V					
R9	BR-R							T22	V-O					
T10	R-S							R22	O-V					
R10	S-R							T23	V-G					
T11	BK-BL							R23	G-V					
R11	BL-BK							T24	V-BR					
T12	BK-O							R24	BR-V					
R12	O-BK	↓						T25	V-S	↓				
T13	BK-G	Spare						R25	S-V	Spare				

* Prewired -- C7; wall-mounted -- B9

† Refer to step 8 for information regarding this lead

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TABLE C (Cont)

TABLE C (Cont)											
75-PAIR D INSIDE WIRING CABLE				IF J58829AF, L4 CABLE IS USED CROSS-CONNECT TO:				IF J58829A, L16 CABLE IS USED CROSS-CONNECT TO:			
				PREWIRED TERM.		WALL-MOUNTED TERM.		PREWIRED TERM.		WALL-MOUNTED TERM.	
G-W BINDER - CONNECTION BLOCK*	TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.
	T1	W-BL	T0	D8	T16	A12	T16	D8	T1	A12	T1
	R1	BL-W	R0	↑	R16	↑	R16	↑	R1	↑	R1
	T2	W-O	S0		R6		R6		T11		T11
	R2	O-W	SL0		R11		R11		T16		T16
	T3	W-G	L0		R1		R1		R16		R16
	R3	G-W	T1		T17		T17		T2		T2
	T4	W-BR	R1		R17		R17		R2		R2
	R4	BR-W	S1		T6		T6		R11		R11
	T5	W-S	SL1		T11		T11		T17		T17
	R5	S-W	L1		T1		T1		R17		R17
	T6	R-BL	T2		T18		T18		T3		T3
	R6	BL-R	R2		R18		R18		R3		R3
	T7	R-O	S2		R7		R7		T12		T12
	R7	O-R	SL2		R12		R12		T18		T18
	T8	R-G	L2		R2		R2		R18		R18
R8	G-R	T3		T19		T19		T4		T4	
T9	R-BR	R3		R19		R19		R4		R4	
R9	BR-R	S3		T7		T7		R12		R12	
T10	R-S	SL3		T12		T12		T19		T19	
R10	S-R	L3		T2		T2		R19		R19	
T11	BK-BL	T4		T20		T20		T5		T5	
R11	BL-BK	R4		R20		R20		R5		R5	
T12	BK-O	S4		R8		R8		T13		T13	
R12	O-BK	SL4	↓	R13	↓	R13	↓	T20	↓	T20	
T13	BK-G	L4	D8	R3	A12	R3	D8	R20	A12	R20	

* Prewired - D7; wall-mounted - A10

TABLE C (Cont)											
75-PAIR D INSIDE WIRING CABLE				IF J58829AF, L4 CABLE IS USED CROSS-CONNECT TO:				IF J58829A, L16 CABLE IS USED CROSS-CONNECT TO:			
				PREWIRED TERM.		WALL-MOUNTED TERM.		PREWIRED TERM.		WALL-MOUNTED TERM.	
G-W BINDER — CONNECTION BLOCK*	TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.
	R13	G-BK	T5	D8	T21	A12	T21	D8	T6	A12	T6
	R14	BK-BR	R5	↑	R21	↑	R21	↑	R6	↑	R6
	R14	BR-BK	S5		T8		T8		R13		R13
	T15	BK-S	SL5		T13		T13		T21		T21
	R15	S-BK	L5		T3		T3		R21		R21
	T16	Y-BL	T6		T22		T22		T7		T7
	R16	BL-Y	R6		R22		R22		R7		R7
	T17	Y-O	S6		R9		R9		T14		T14
	R17	O-Y	SL6		R14		R14		T22		T22
	T18	Y-G	L6		R4		R4		R22		R22
	R18	G-Y	T7		T23		T23		T8		T8
	T19	Y-BR	R7		R23		R23		R8		R8
	R19	BR-V	S7		T9		T9		R14		R14
	T20	Y-S	SL7		T14		T14		T23		T23
	R20	S-Y	L7		T4		T4		R23		R23
	T21	V-BL	T8		T24		T24		T9		T9
	R21	BL-V	R8		R24		R24		R9		R9
	T22	V-O	S8		R10		R10		T15		T15
	R22	O-V	SL8		R15		R15		T24		T24
	T23	V-G	L8		R5		R5		R24		R24
	R23	G-V	T9		T25		T25		T10		T10
	T24	V-BR	R9		R25		R25		R10		R10
	R24	BR-V	S9		T10		T10		R15		R15
	T25	V-S	SL9	↓	T15	↓	T15	↓	T25	↓	T25
	R25	S-V	L9	D8	T5	A12	T5	D8	R25	A12	R25

* Prewired — D7; wall-mounted — A10

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TABLE E

100-PAIR STATION LINE CABLE J59018F, L3		CROSS-CONNECT TO:						100-PAIR STATION LINE CABLE J59018F, L3		CROSS-CONNECT TO:					
		PREWIRED TERM.			WALL-MOUNTED TERM.					PREWIRED TERM.			WALL-MOUNTED TERM.		
		TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK			TERM. NO.	TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.
BL-W BINDER — CONNECTION BLOCK*	T1	W-BL	STA 20	A1	T1	A3	T1	BL-W BINDER — CONNECTION BLOCK*	R13	G-BK	STA 32	A1	R13	A3	R13
	R1	BL-W	▲ 20	▲	R1	▲	R1		T14	BK-BR	▲ 33	▲	T14	▲	T14
	T2	W-O	21		T2		T2		R14	BR-BK	33		R14		R14
	R2	O-W	21		R2		R2		T15	BK-S	34		T15		T15
	T3	W-G	22		T3		T3		R15	S-BK	34		R15		R15
	R3	G-W	22		R3		R3		T16	Y-BL	35		T16		T16
	T4	W-BR	23		T4		T4		R16	BL-Y	35		R16		R16
	R4	BR-W	23		R4		R4		T17	Y-O	36		T17		T17
	T5	W-S	24		T5		T5		R17	O-Y	36		R17		R17
	R5	S-W	24		R5		R5		T18	Y-G	37		T18		T18
	T6	R-BL	25		T6		T6		R18	G-Y	37		R18		R18
	R6	BL-R	25		R6		R6		T19	Y-BR	38		T19		T19
	T7	R-O	26		T7		T7		R19	BR-Y	38		R19		R19
R7	O-R	26		R7		R7	T20	Y-S	39		T20		T20		
T8	R-G	27		T8		T8	R20	S-Y	39		R20		R20		
R8	G-R	27		R8		R8	T21	V-BL	40		T21		T21		
T9	R-BR	28		T9		T9	R21	BL-V	40		R21		R21		
R9	BR-R	28		R9		R9	T22	V-O	41		T22		T22		
T10	R-S	29		T10		T10	R22	O-V	41		R22		R22		
R10	S-R	29		R10		R10	T23	V-G	42		T23		T23		
T11	BK-BL	30		T11		T11	R23	G-V	42		R23		R23		
R11	BL-BK	30		R11		R11	T24	V-BR	43		T24		T24		
T12	BK-O	31		T12		T12	R24	BR-V	43		R24		R24		
R12	O-BK	▼ 31	▼	R12	▼	R12	T25	V-S	▼ 44	▼	T25	▼	T25		
T13	BK-G	STA 32	A1	T13	A3	T13	R25	S-V	STA 44	A1	R25	A3	R25		

* Prewired — B3; wall-mounted — A7

TABLE E (Cont)

100-PAIR STATION LINE CABLE J59018F, L3			CROSS-CONNECT TO:				100-PAIR STATION LINE CABLE J59018F, L3			CROSS-CONNECT TO:			
			PREWIRED TERM.		WALL-MOUNTED TERM.					PREWIRED TERM.		WALL-MOUNTED TERM.	
TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.
T1	W-BL	STA 45	A2	T1	B3	T1	R13	G-BK	S35	C7	R8	A11	R8
R1	BL-W	↑ 45	↑	R1	↑	R1	T14	BK-BR	S36	↑	T9	↑	T9
T2	W-O	46		T2		T2	R14	BR-BK	S37		R9		R9
R2	O-W	46		R2		R2	T15	BK-S	S38		T10		T10
T3	W-G	47		T3		T3	R15	S-BK	S39		R10		R10
R3	G-W	47		R3		R3	T16	Y-BL	S40		T11		T11
T4	W-BR	48		T4		T4	R16	BL-Y	S41		R11		R11
R4	BR-W	48		R4		R4	T17	Y-O	S42		T12		T12
T5	W-S	↓ 49	↓	T5	↓	T5	R17	O-Y	S43		R12		R12
R5	S-W	STA 49	A2	R5	B3	R5	T18	Y-G	S44		T13		T13
T6	R-BL	S20	C7	T1	A11	T1	R18	G-Y	S45		R13		R13
R6	BL-R	S21	↑	R1	↑	R1	T19	Y-BR	S46		T14		T14
T7	R-O	S22		T2		T2	R19	BR-Y	S47		R14		R14
R7	O-R	S23		R2		R2	T20	Y-S	S48	↓	T15	↓	T15
T8	R-G	S24		T3		T3	R20	S-Y	S49	C7	R15	A11	R15
R8	G-R	S25		R3		R3	T21	V-BL	M1	D5	T2	B3	R17
T9	R-BR	S26		T4		T4	R21	BL-V					
R9	BR-R	S27		R4		R4	T22	V-O	AP1	D2	T22	B3	T22
T10	R-S	S28		T5		T5	R22	O-V	AP2	D2	R22	B3	R22
R10	S-R	S29		R5		R5	T23	V-G	AP3	D2	T23	B3	R23
T11	BK-BL	S30		T6		T6	R23	G-V					
R11	BL-BK	S31		R6		R6	T24	V-BR	L2	C8	T6	B11	T6
T12	BK-O	S32		T7		T7	R24	BR-V	L3	C8	R6	B11	R6
R12	O-BK	S33	↓	R7	↓	R7	T25	V-S	L4	C8	T7	B11	T7
T13	BK-G	S34	C7	T8	A11	T8	R25	S-V					

* Prewired - B4; wall-mounted - B7

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TABLE E (Cont)

100-PAIR STATION LINE CABLE J59018F, L3			CROSS-CONNECT TO:					100-PAIR STATION LINE CABLE J59018F, L3			CROSS-CONNECT TO:				
			PREWIRED TERM.		WALL-MOUNTED TERM.						PREWIRED TERM.		WALL-MOUNTED TERM.		
TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.		
T1	W-BL	STA 50	A2	T6	B3	T6	R13	G-BK	STA 62	A2	R18	A5	R3		
R1	BL-W	↑ 50	↑	R6	↑	R6	T14	BK-BR	↑ 63	↑	T19	↑	T4		
T2	W-O	51		T7		T7	R14	BR-BK	63		R19		R4		
R2	O-W	51		R7		R7	T15	BK-S	64		T20		T5		
T3	W-G	52		T8		T8	R15	S-BK	64		R20		R5		
R3	G-W	52		R8		R8	T16	Y-BL	65		T21		T6		
T4	W-BR	53		T9		T9	R16	BL-Y	65		R21		R6		
R4	BR-W	53		R9		R9	T17	Y-O	66		T22		T7		
T5	W-S	54		T10		T10	R17	O-Y	66		R22		R7		
R5	S-W	54		R10		R10	T18	Y-G	67		T23		T8		
T6	R-BL	55		T11		T11	R18	G-Y	67		R23		R8		
R6	BL-R	55		R11		R11	T19	Y-BR	68		T24		T9		
T7	R-O	56		T12		T12	R19	BR-Y	68		R24		R9		
R7	O-R	56		R12		R12	T20	Y-S	69	↓	T25		T10		
T8	R-G	57		T13		T13	R20	S-Y	69	A2	R25		R10		
R8	G-R	57		R13		R13	T21	V-BL	70	B1	T1		T11		
T9	R-BR	58		T14		T14	R21	BL-V	70	↑	R1		R11		
R9	BR-R	58		R14		R14	T22	V-O	71		T2		T12		
T10	R-S	59		T15	↓	T15	R22	O-V	71		R2		R12		
R10	S-R	59		R15	B3	R15	T23	V-G	72		T3		T13		
T11	BK-BL	60		T16	A5	T1	R23	G-V	72		R3		R13		
R11	BL-BK	60		R16	↑	R1	T24	V-BR	73		T4		T14		
T12	BK-O	61		T17	↓	T2	R24	BR-V	73		R4		R14		
R12	O-BK	↓ 61	↓	R17	↓	R2	T25	V-S	↓ 74	↓	T5	↓	T15		
T13	BK-G	STA 62	A2	T18	A5	T3	R25	S-V	STA 74	B1	R5	A5	R15		

* Prewired — B5; wall-mounted — A8

TABLE E (Cont)

100-PAIR STATION LINE CABLE J59018F, L3			CROSS-CONNECT TO:				100-PAIR STATION LINE CABLE J59018F, L3			CROSS-CONNECT TO:			
			PREWIRED TERM.		WALL-MOUNTED TERM.					PREWIRED TERM.		WALL-MOUNTED TERM.	
TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.
T1	W-BL	STA 75	B1	T6	A5	T16	R13	G-BK	S65	C7	R23	A11	R23
R1	BL-W	▲ 75	▲	R6	▲	R16	T14	BK-BR	S66	▲	T24	▲	T24
T2	W-O	76		T7		T17	R14	BR-BK	S67	▲	R24	▲	R24
R2	O-W	76		R7		R17	T15	BK-S	S68	▼	T25	▼	T25
T3	W-G	77		T8		T18	R15	S-BK	S69	C7	R25	A11	R25
R3	G-W	77		R8		R18	T16	Y-BL	S70	C8	T1	B11	T1
T4	W-BR	78		T9		T19	R16	BL-Y	S71	▲	R1	▲	R1
R4	BR-W	78		R9		R19	T17	Y-O	S72		T2		T2
T5	W-S	▼ 79	▼	T10	▼	T20	R17	O-Y	S73		R2		R2
R5	S-W	STA 79	B1	R10	A5	R20	T18	Y-G	S74		T3		T3
T6	R-BL	S50	C7	T16	A11	T16	R18	G-Y	S75		R3		R3
R6	BL-R	S51	▲	R16	▲	R16	T19	Y-BR	S76		T4		T4
T7	R-O	S52		T17		T17	R19	BR-Y	S77		R4		R4
R7	O-R	S53		R17		R17	T20	Y-S	S78	▼	T5	▼	T5
T8	R-G	S54		T18		T18	R20	S-Y	S79	C8	R5	B11	R5
R8	G-R	S55		R18		R18	T21	V-BL	M2	D5	R2	B3	R19
T9	R-BR	S56		T19		T19	R21	BL-V	M3	D5	T3	▲	R20
R9	BR-R	S57		R19		R19	T22	V-O	AP4	D2	R23	▲	R23
T10	R-S	S58		T20		T20	R22	O-V	AP5	D2	T24	▼	T24
R10	S-R	S59		R20		R20	T23	V-G	AP6	D2	R24	B3	R24
T11	BK-BL	S60		T21		T21	R23	G-V					
R11	BL-BK	S61		R21		R21	T24	V-BR	L5	C8	R7	B11	R7
T12	BK-O	S62		T22		T22	R24	BR-V	L6	C8	R8	B11	T8
R12	O-BK	S63	▼	R22	▼	R22	T25	V-S	L7	C8	R8	B11	R8
T13	BK-G	S64	C7	T23	A11	T23	R25	S-V					

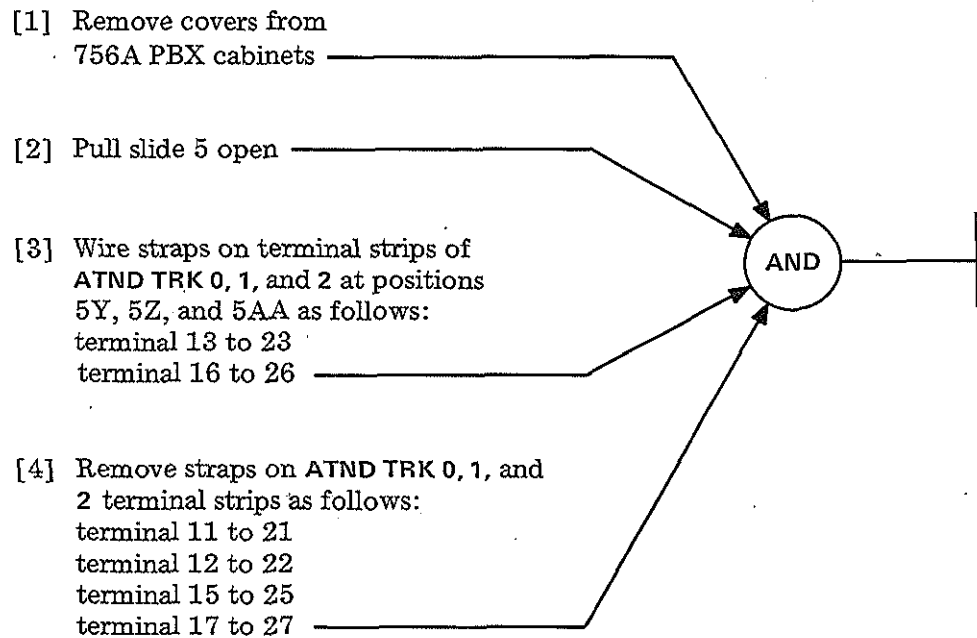
* Rewired — B6; wall-mounted — B8

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SUMMARY

The attendant trunk option is used only when there is no attendant equipment.



[1] Provide tools listed in TABLE A for placing options

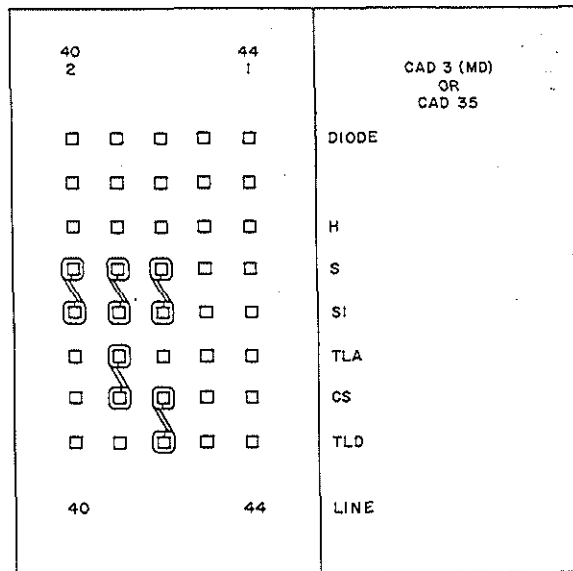
[2] See TABLE B and determine location of station terminals

[3] See TABLE C and wire class-of-service option for each station per service order. See FIG. 1 for typical strapping

AND

Page 2

TABLE A	
CODE	DESCRIPTION
KS-16363, L1	Wire wrapping tool (mechanical) for solderless connections
KS-16363, L33	Stationary sleeve (red band) for No. 24 gauge wire
KS-16734, L1 635A	Wrapping bit (red band) for No. 24 gauge wire Wire wrapping tool (hand) for No. 22 or No. 24 gauge wire, which must be soldered
KS-16492, L2	Wire unwrapping tool for No. 22 or No. 24 gauge wire with solder



EXAMPLE

STATION 40-RESTRICTED
STATION 41-TOLL-ALLOWED
STATION 42-TOLL-DENIED
STATIONS 43-44-UNASSIGNED

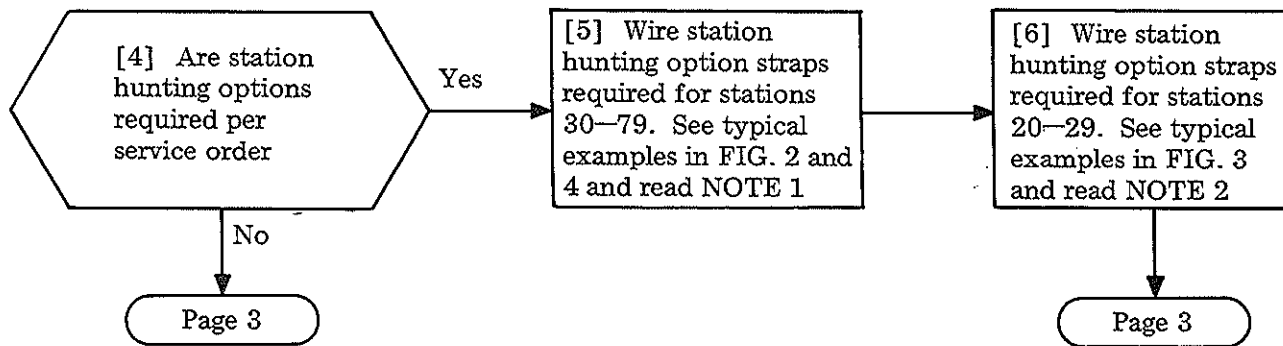
TABLE C			
CLASS-OF-SERVICE OPTION		STRAPS REQUIRED ON LINE TS	
		STATIONS 20-29	STATIONS 30-79
Toll	Allowed	CS to TLA S to S1A	CS to TLA S to S1
	Denied	CS to TLD S to S1A	CS to TLD S to S1
Restricted		S to S1A	S to S1
Unassigned		None (remove strap S to S1A)	None (remove strap S to S1)

TABLE B	
LINES	LOCATION OF LINE TERMINAL STRIPS
20-29	Slide 2, mounting plate M, has S1A leads
30-39	Slide 2, mounting plate M
40-59	Slide 3, mounting plate M
60-79	Slide 4, mounting plate M

FIG. 1—Typical Class-of-Service Strapping on LINE Terminal Strip (Station Lines 40 through 44)

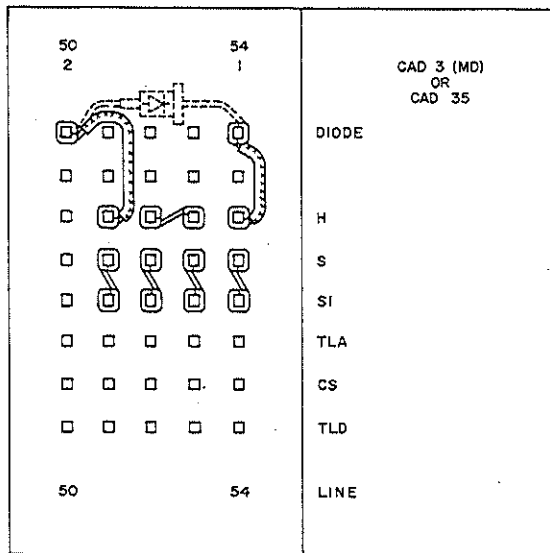
WIRE STATION OPTIONS

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NOTES

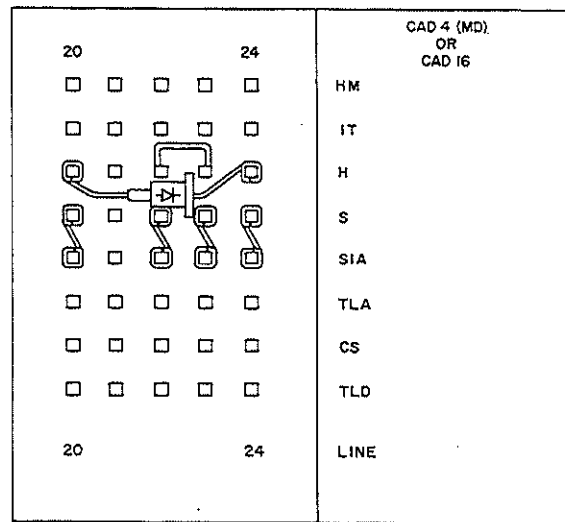
1. Diodes for stations 30-79 (one for each 5 stations) are shop-wired on back side of terminal strip
2. Diodes for stations 20-29 (type 458A) are shipped loose and must be added if one-way hunting is required



EXAMPLE

STATION 51 HUNTS TO STATION 54. *
 STATIONS 51 AND 54 STRAPPED FOR TERMINAL (ONE-WAY) HUNTING.
 STATIONS 52 AND 53 STRAPPED FOR CIRCULAR (TWO-WAY) HUNTING.
 * HUNTING IS IN DIRECTION OF DIODE ARROW

FIG. 2 — Typical Strapping on LINE Terminal Strip Showing Straps for Station Hunting (Station Lines 50 through 54)

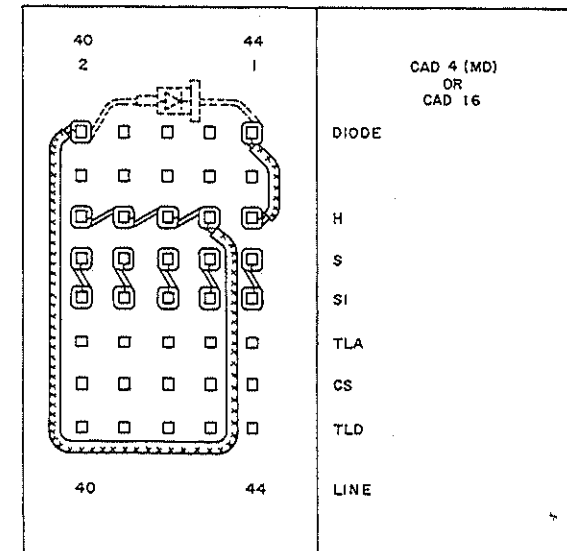


EXAMPLE:

STATIONS 20 AND 24 STRAPPED FOR TERMINAL (ONE-WAY) HUNTING.
 STATION 20 HUNTS TO STATION 24. *
 STATIONS 22 AND 23 STRAPPED FOR CIRCULAR (TWO-WAY) HUNTING.

* HUNTING IS IN DIRECTION OF DIODE ARROW

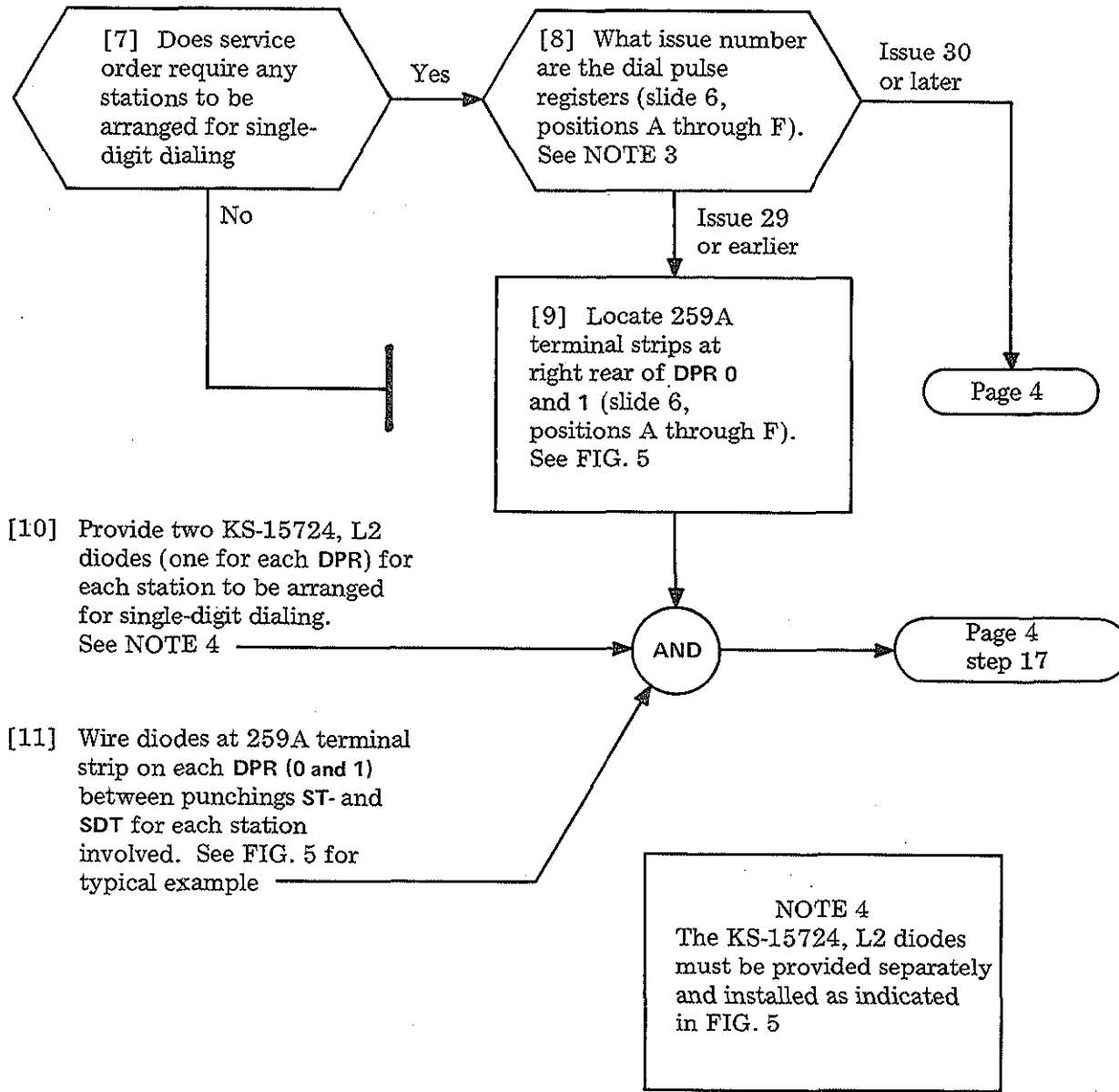
FIG. 3 — Typical Strapping on Universal LINE Terminal Strip Showing Straps for Station Hunting (Station Lines 20 through 24) See NOTE 2



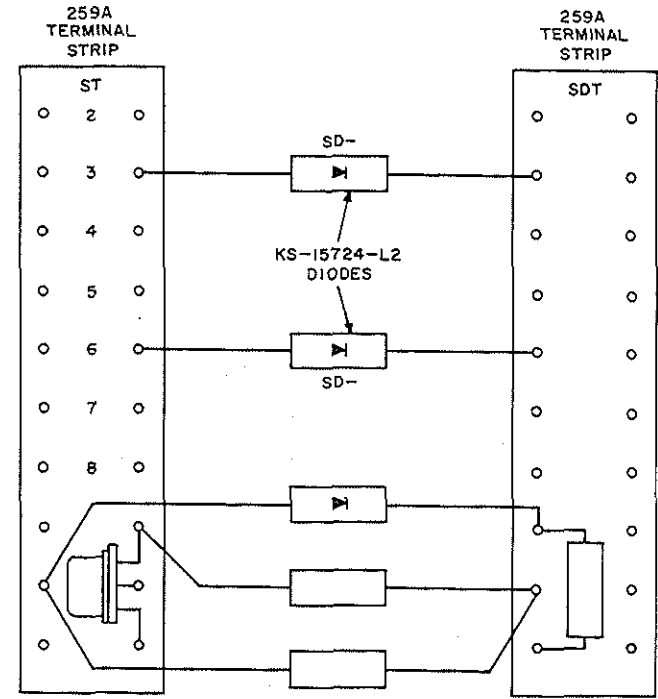
STATIONS 40, 41, 42, 43, AND 44 STRAPPED FOR COMBINED TERMINAL (ONE-WAY) AND CIRCULAR (TWO-WAY) HUNTING. STATIONS 40, 41, 42 AND 43 ARE STRAPPED FOR CIRCULAR HUNTING AND CAN HUNT TO STATION 44 BUT STATION 44 CANNOT HUNT TO STATIONS 40, 41, 42, AND 43. *

* HUNTING IS IN DIRECTION OF DIODE ARROW

FIG. 4 — Typical Strapping on LINE Terminal Strip Showing Combination Hunting (Station Lines 40 through 44)



NOTE 3
Some dial pulse registers (DPR) are stamped with the issue number after the SD-65742-01 number. If not stamped with issue number, look for 259A terminal strip at right rear of DPR. Presence of 259A terminal strip there indicates DPR is Issue 29 or earlier. If 259A terminal strip is not located there, DPR is Issue 30 or later



EXAMPLE:
SINGLE-DIGIT DIALING-STATIONS 30 AND 60
FIG. 5—Typical Diode Connections for Single-Digit Dialing on DPR Issue 29 or Earlier (Examples Shown Are Stations 30 and 60)

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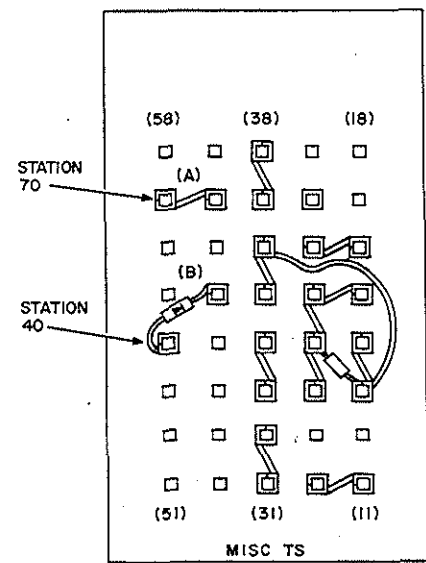
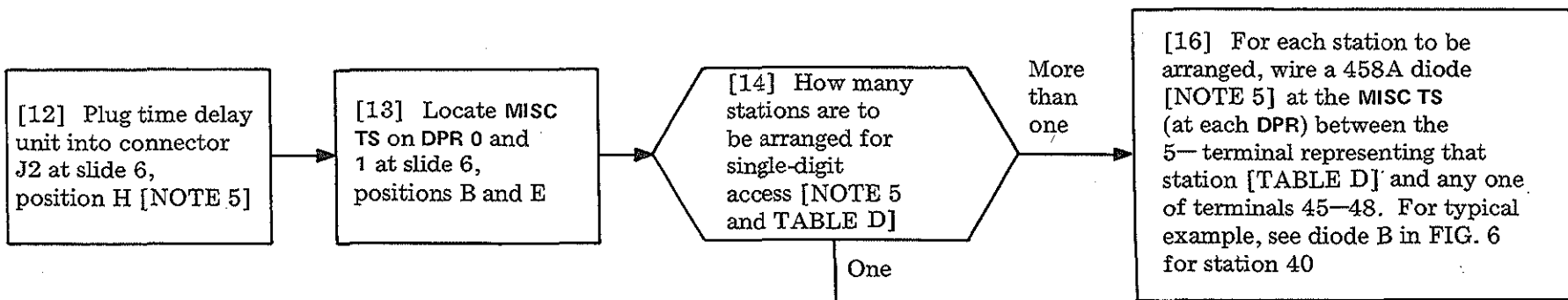


FIG. 6—Strapping at MISC TS for Single-Digit Access

TABLE D		
STA	STRAP PCHG TO PCHG*	
20	COMMON	45
30		46
40		47
50		48
60		52 (ST2)
70		53 (ST3)
		54 (ST4)
	55 (ST5)	
	56 (ST6)	
	57 (ST7)	

* TS (MISC) on DPR 0 and 1 (terminals 45-48 are common)

NOTE 5
Time delay unit (ED-9555-12), Group 3 per J58829H and ST diodes (type 458A) must be provided separately

[18] Provide one 6017-B key and one 15E-3 lamp indicator for each station provided with make-busy option

[19] Install key and lamp at station location involved

[20] Place 6-pair D inside wire cable from cross-connect terminal to station

[21] Connect 6-pair cable at prewired or local terminal [TABLE E]

[22] Connect 6-pair cable at key and lamp [TABLE E]

AND

[23] Remove S to S1 or S to S1A strap on LINE TS for each station arranged for single-digit access plus make-busy options

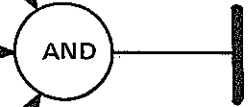
TABLE E														
CONNECTIONS AT STATION			TO											
			J58829AA, L4 CABLE [DLP-038, TABLE C]											
KEY	LAMP	LEAD	CONNECTING BLOCK AND TERMINALS FOR STATIONS											
			2(0)		3(0)		4(0)		5(0)		6(0)		7(0)	
			PT *	LT †	PT	LT	PT	LT	PT	LT	PT	LT	PT	LT
1		S	D3-1	A7-1	D3-5	A7-5	D3-9	A7-41	D3-13	A7-45	D3-17	B7-31	D3-21	B7-35
2		S1	D3-2	A7-2	D3-6	A7-6	D3-10	A7-42	D3-14	A7-46	D3-18	B7-32	D3-22	B7-36
	5	L BAT	D3-3	A7-3	D3-7	A7-7	D3-11	A7-43	D3-15	A7-47	D3-19	B7-33	D3-23	B7-37
	6	L GRD	D3-4	A7-4	D3-8	A7-8	D3-12	A7-44	D3-16	A7-48	D3-20	B7-34	D3-24	B7-38

* Prewired cable terminal section [DLP-036, FIG. 3]

† Locally provided and installed terminal [DLP-037, FIG. 1]

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- [1] Unpack central office (CO) trunk units
- [2] Mount CO trunk units in slide 5 CO TRUNK positions 3, 4, 8, or 9 [FIG. 1]
- [3] Mate plugs of CO trunk units to front connectors on slide 5 positions [NOTE and TABLE A]



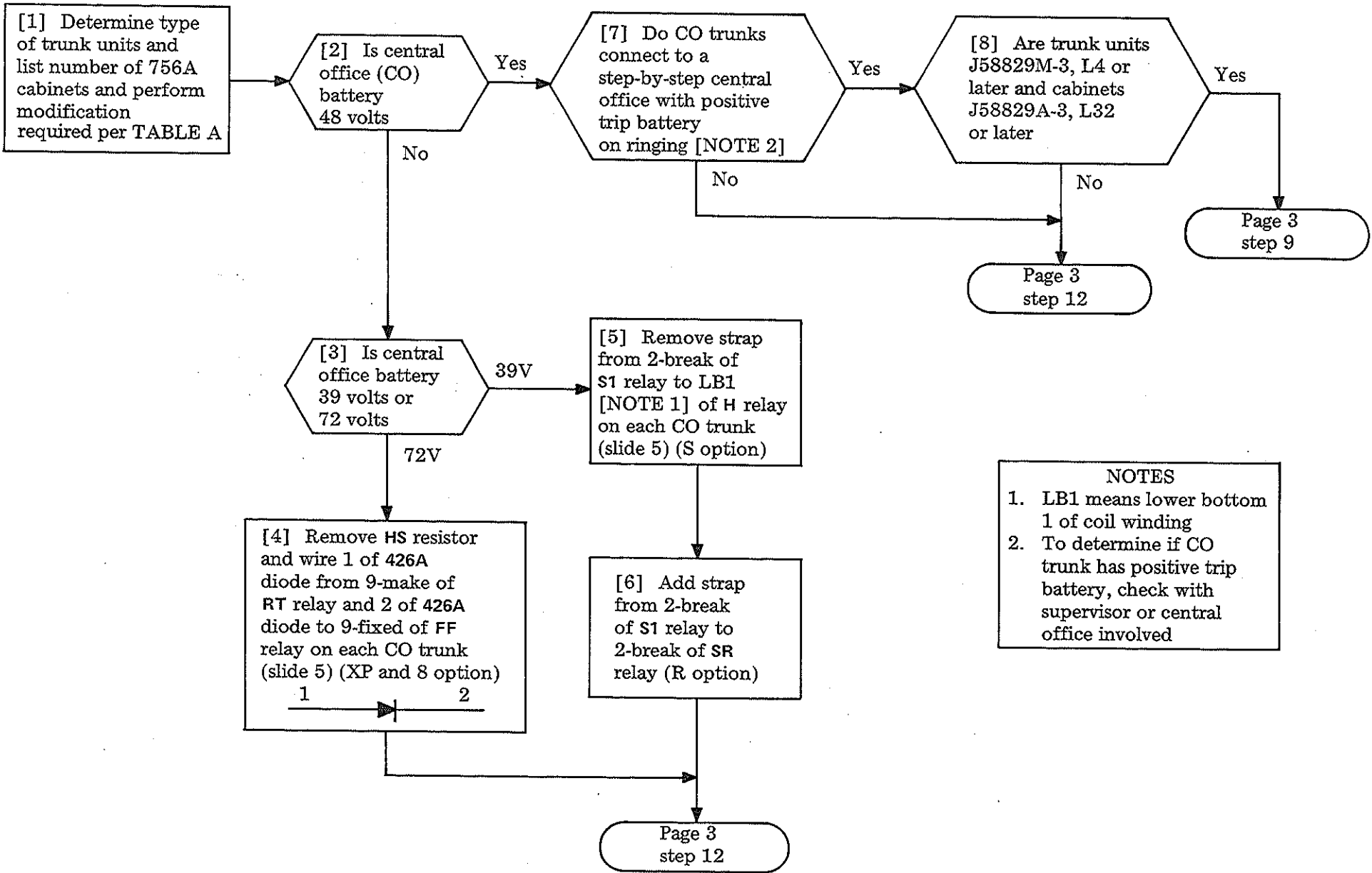
NOTE

If CO trunks are not ground start, sometimes called tip open (no CO dial tone at PBX if not ground start), refer to central office and have trunks changed to ground start

TABLE A					
CONNECT TIE TRUNK			TO POSITION CIRCUIT		
MOUNTING PLATE POSITION	CIRCUIT	CONNECTORS	MOUNTING PLATE POSITION	CIRCUIT	CONNECTORS
H-G	TRK 3	A,B	J	TRK 3	A,B
K-L	TRK 4	A,B	J	TRK 4	A,B
T-U	TRK 8	A,B	V	TRK 8	A,B
W-X	TRK 9	A,B	V	TRK 9	A,B

AB	INDICATION OF CAMP-ON UNIT	
AA	ATND TRUNK 2	
Z	ATND TRUNK 1	
Y	ATND TRUNK 0	
X	CO TRUNK OR	9
W	RINGDOWN TIE TRK	
V	POS CKT AND TRK PTCH	
U	CO TRUNK OR	8
T	RINGDOWN TIE TRK	
S	CO TRUNK	
R	CO TRUNK	
Q	CO TRUNK	
P	CO TRUNK	
N	CO TRUNK	
M	CO TRUNK	
L	CO TRUNK OR	4
K	RINGDOWN TIE TRK	
J	TRUNK PATCHING	
H	CO TRUNK OR	3
G	RINGDOWN TIE TRK	
F	CO TRUNK	
E	CO TRUNK	
D	CO TRUNK	
C	CO TRUNK	
B	CO TRUNK	
A	CO TRUNK	


SLIDE 5
FIG. 1



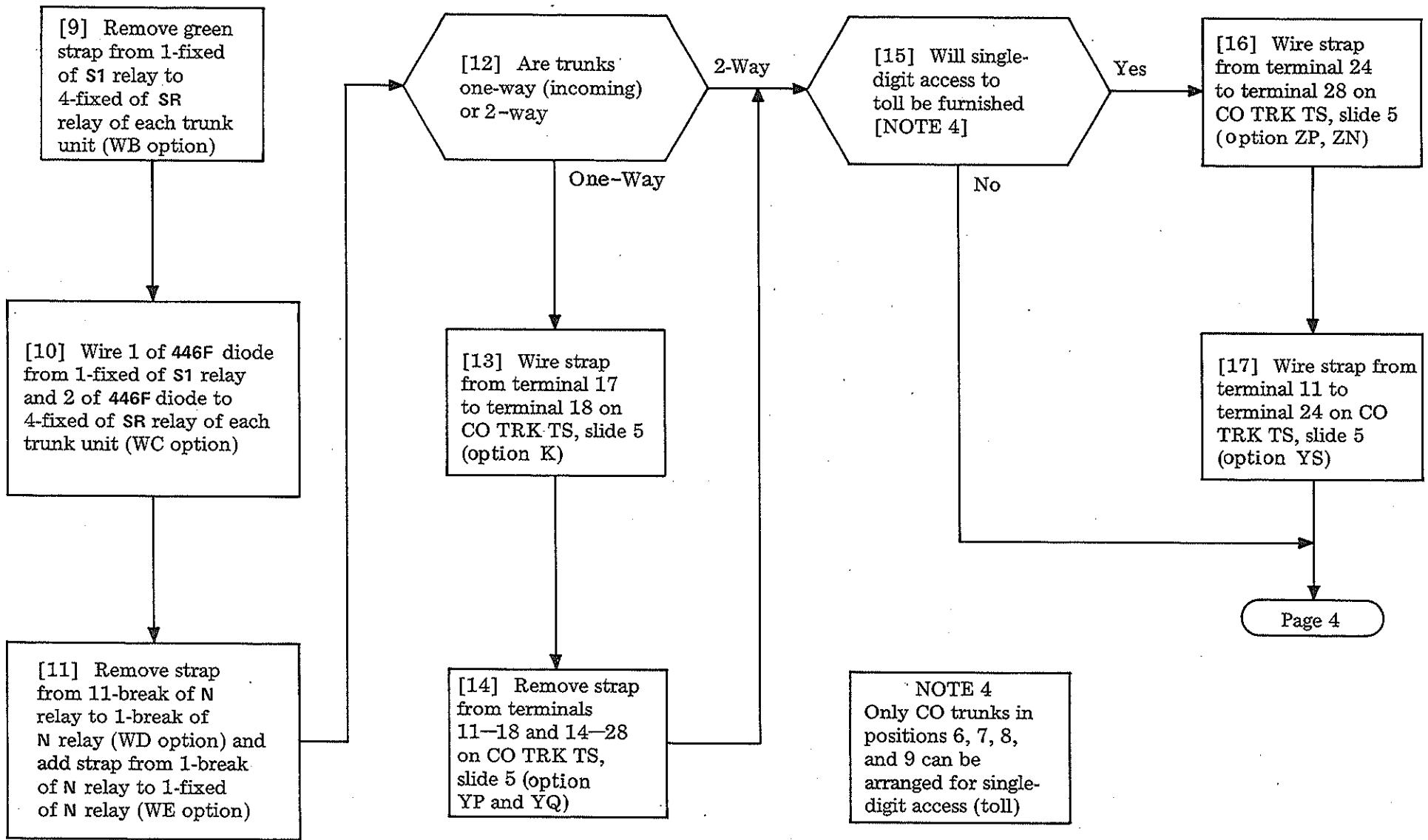
NOTES

1. LB1 means lower bottom 1 of coil winding
2. To determine if CO trunk has positive trip battery, check with supervisor or central office involved

TABLE A

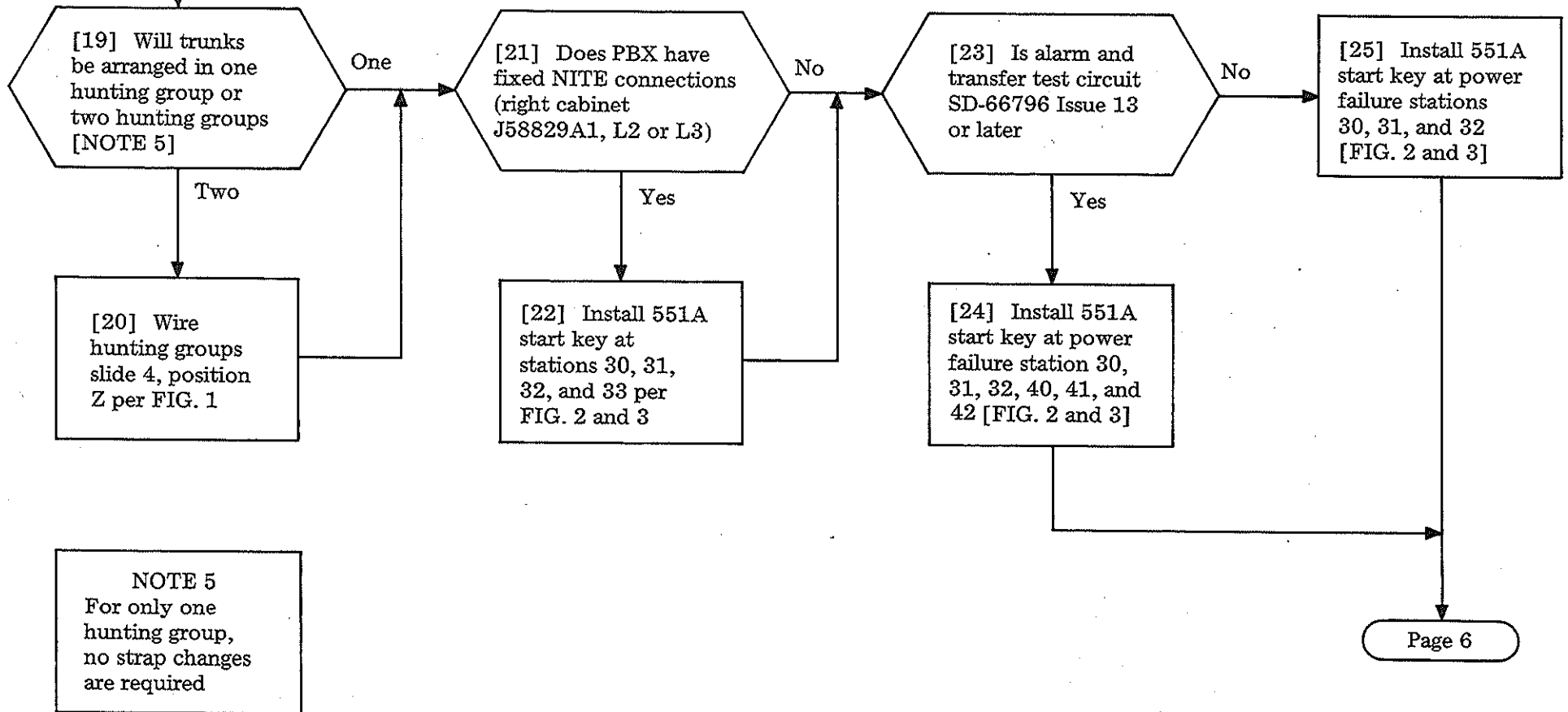
TRUNK UNIT	756A CABINET	MODIFICATIONS REQUIRED	
J58829M-4, L4	J58829A-3, L52-L55 J58829A-4, L52-L55	None	<p>No. 1 Strap terminal 11 to 14 on trunk unit terminal strip, slide 5 (Option XH)</p> <p>No. 2 Place 446F diode between 5-make of the R1 relay  (Option XM)</p> <p>No. 3 Move local cable, blue 3 white wire, from 7-fixed of the P relay to 2-break of the DRA relay</p> <p>Remove 7-fixed of the P relay to 2-make of the DRA relay</p> <p>Remove 2-fixed of the DRA relay to 10-break of the DR relay</p> <p>Strap 7-fixed of the P relay to 2-fixed of the DRA relay</p> <p>Strap 2-make of the DRA relay to 10-break of the DR relay</p> <p>No. 4 Add J58829M, List 7 (shorting plug for C connector)</p> <p style="text-align: right;">Option XT, XU, and XV</p>
	J58829A-3, L32-L51	No. 1	
	J58829A-3, L1-L27	No. 1 and No. 4	
J58829M-3, L4, B, C	J58829A-3, L52-L55 J58829A-4, L52-L55	No. 2 and No. 3	
	J58829A-3, L32-L51	No. 1, No. 2, and No. 3	
	J58829A-3, L1-L27	No. 1, No. 2, No. 3, and No. 4	
J58829M-3, L4, A or J58829M-3, L4	J58829A-3, L52-L55 J58829A-4, L52-L55	No. 2	
	J58829A-3, L32-L51	No. 1 and No. 2	
	J58829A-3, L1-L27	No. 1, No. 2, and No. 4	
J58829M-2, L4, J J58829M-2, L4, G J58829M-2, L4, E	J58829A-3, L32-L51	No. 2	
	J58829A-3, L1-L27	No. 2 and No. 4	
J58829M-2, L4, D, WE	J58829A-3, L32-L47	No. 2	
	J58829A-3, L1-L27	No. 2 and No. 4	
J58829M-2, L4, B	J58829A-3, L32-L35	None	
	J58829A, L1-L27	No. 4	
J58829M-2, L4 J58829M-1, L4, E	J58829A, L1-L27	None	

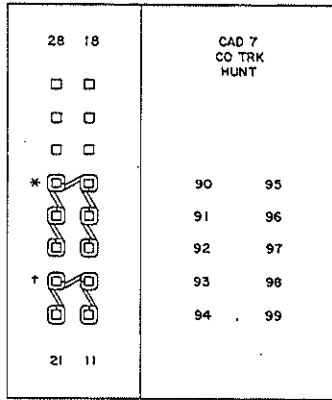
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[18] Remove strap on CO TRK HUNT TS (slide 4Z) for each CO trunk (plug-in) per TABLE B

TABLE B	
TRUNK ASSIGNED	STRAP REMOVED
3	16 to 17
4	17 to 18
8	26 to 27
9	27 to 28





* HUNTING ON TRUNK GROUP 0, 1, 2, 5, 6, AND 7
 † HUNTING ON TRUNK GROUP 3, 4, 8, AND 9

FIG. 1 – Typical Example

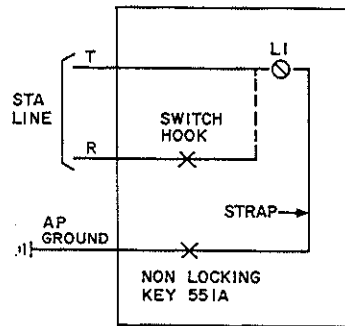


FIG. 2

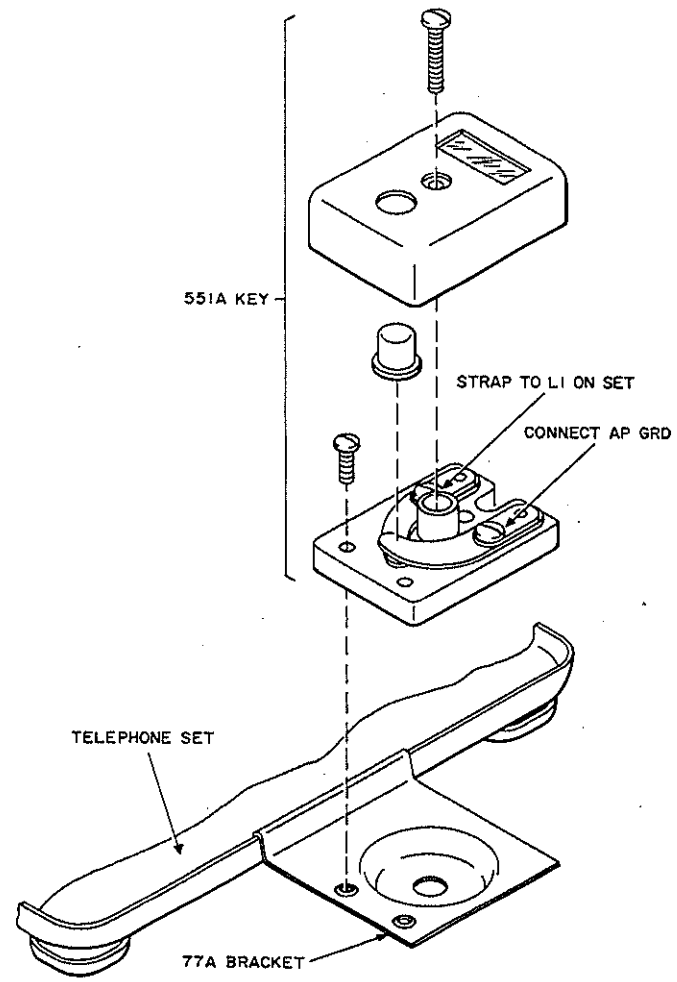
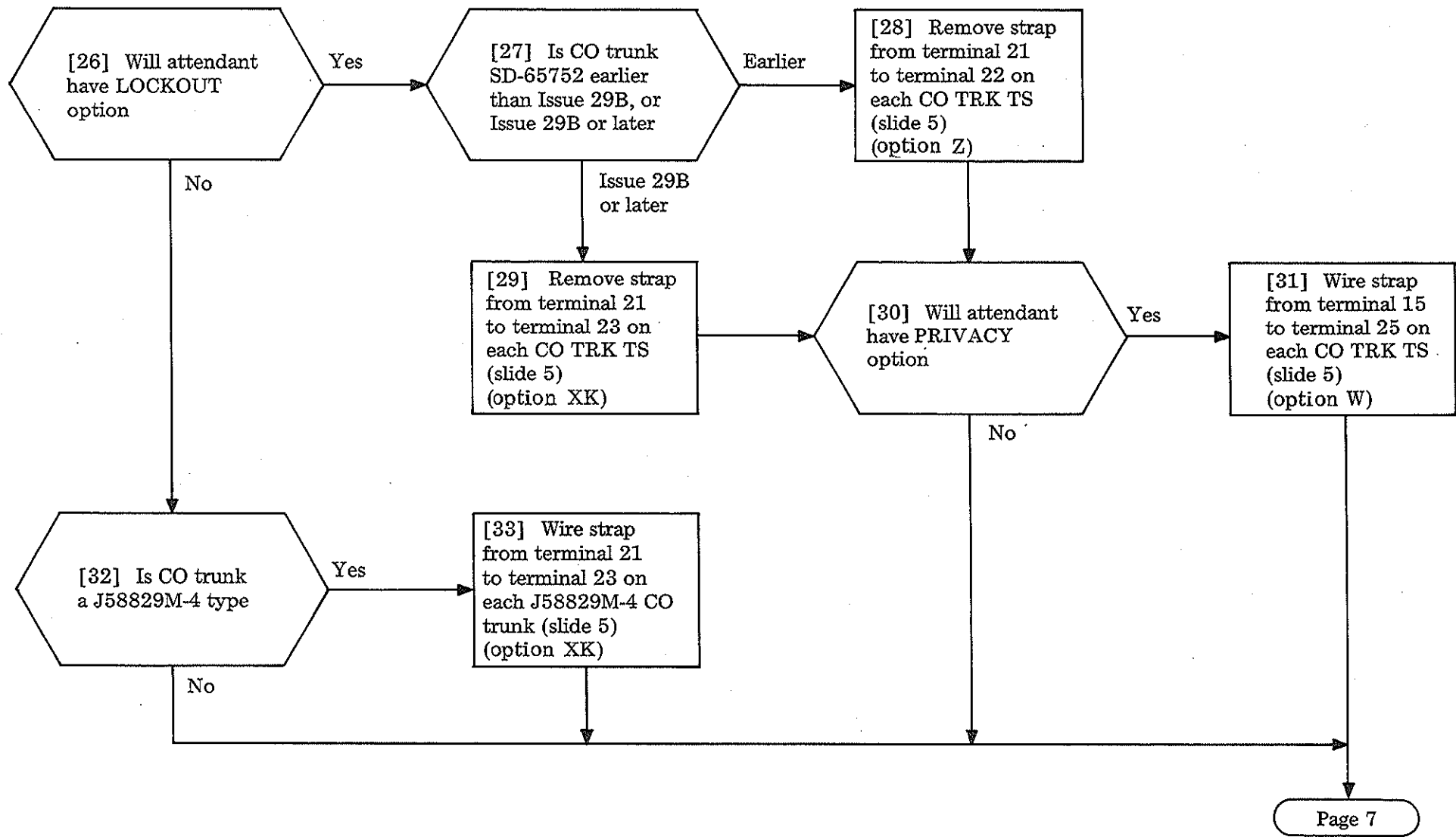
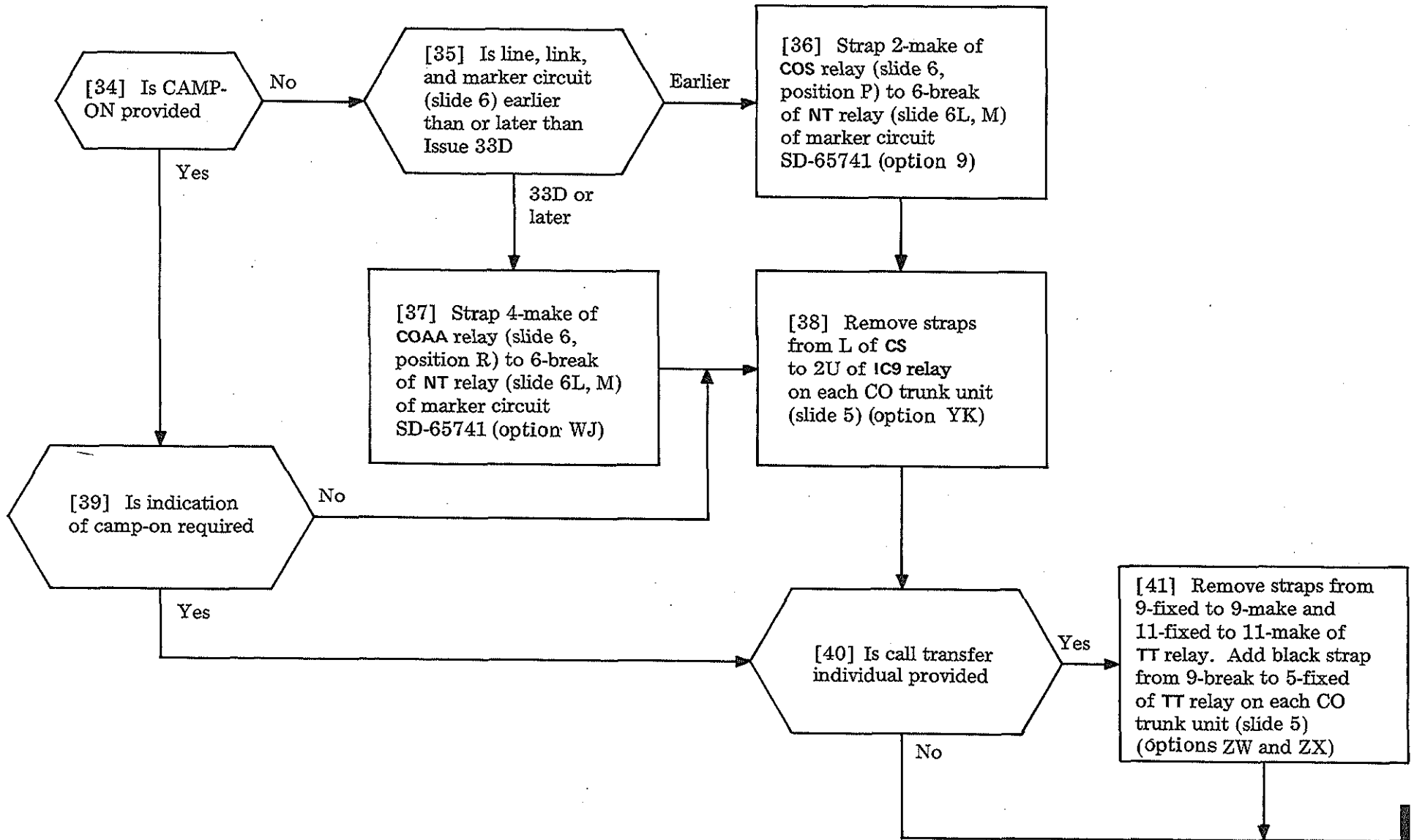


FIG. 3





[1] See TABLE A. Provide equipment needed for testing [NOTE 1]

[2] Inspect terminal strips of prewired or local terminal for broken wires or wire clippings

[3] Inspect that all crown cable plugs are securely plugged into their respective jacks

[4] Inspect to be certain that all plug-in equipment is securely plugged into its slide connectors

[5] Inspect wiring side of equipment for broken leads and wire clippings

[6] Verify that wire-spring relay contacts are parallel and in proper location

[7] Check proper positioning of actuating cards and relay covers of wire-spring relays

AND

AND

TABLE A	
EQUIPMENT	QUANTITY
Test handset KS-1013	1
Telephone set 500-type	2
Telephone console 4-type or 556A switchboard	1 [NOTE 2]
Test cable J58829A, L58	1 [NOTE 3]
Volt-ohm-milliammeter KS-14510, L1	1
Cord W1AP	1

NOTES

1. Test from station equipment if installation has been completed; otherwise, test from station terminals at prewired or local terminal
2. 3-Type console may be used for testing; however, dialing is required when using the 3-type console and no DSS lamp exists, etc
3. Some installations have a connector cable for testing console permanently installed at cross-connect terminal

[8] Unplug power cord from AC receptacle

[9] Connect one test lead of volt-ohm milliammeter (VOM) to 14-gauge ground wire from an approved ground and other test lead to slide 4 framework

[10] Observe that VOM indicates $\frac{1}{2}$ ohm or less [NOTE 4]

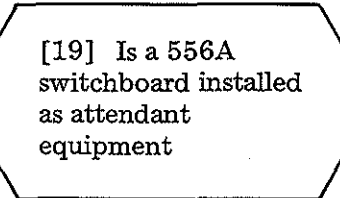
AND

Page 2

- [11] Unplug crown connector P1 in crown over slide 1
- [12] Turn AC INPUT switch to OFF (slide 1)
- [13] Plug power cord into AC receptacle
- [14] Repeat step 9
- [15] Observe that VOM indicates ½ ohm or less [NOTE 4]

NOTE 4
 When ground reading exceeds ½ ohm, follow ground lead to ground connection, cleaning and tightening each connection. Ground lead should be 14-gauge wire indicated in step 9

- [16] Disconnect KS-14510 VOM
- [17] Plug in crown connector P1 in crown over slide 1
- [18] Turn AC INPUT switch to ON

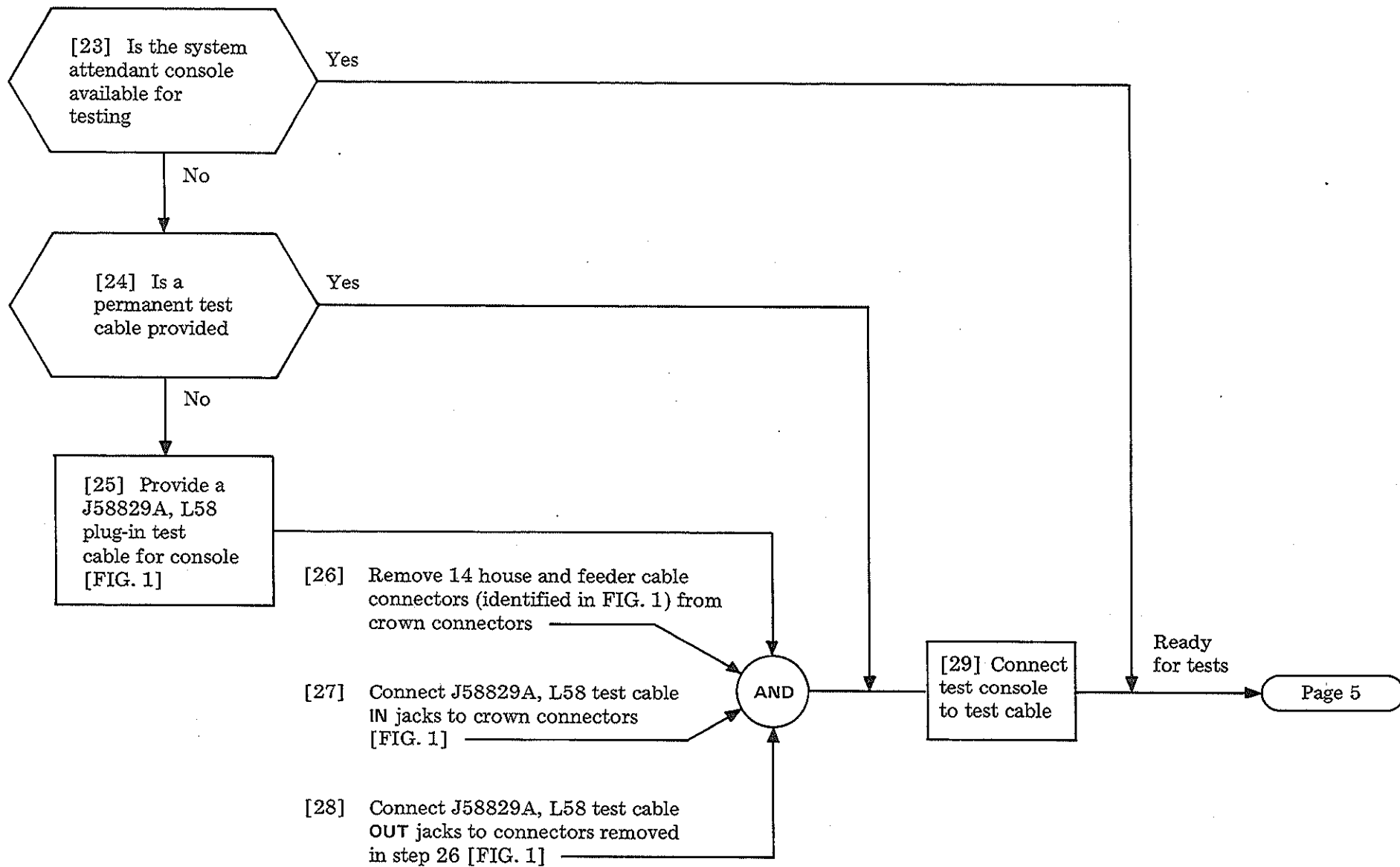


Page 3

Page 5
step 34

- [19] Is a 556A switchboard installed as attendant equipment
- [20] Test CO and ringdown tie trunks at 556A switchboard [DLP-511]
- [21] Test stations at 556A switchboard [DLP-512]
- [22] Test manual conference circuit at 556A switchboard [DLP-513]

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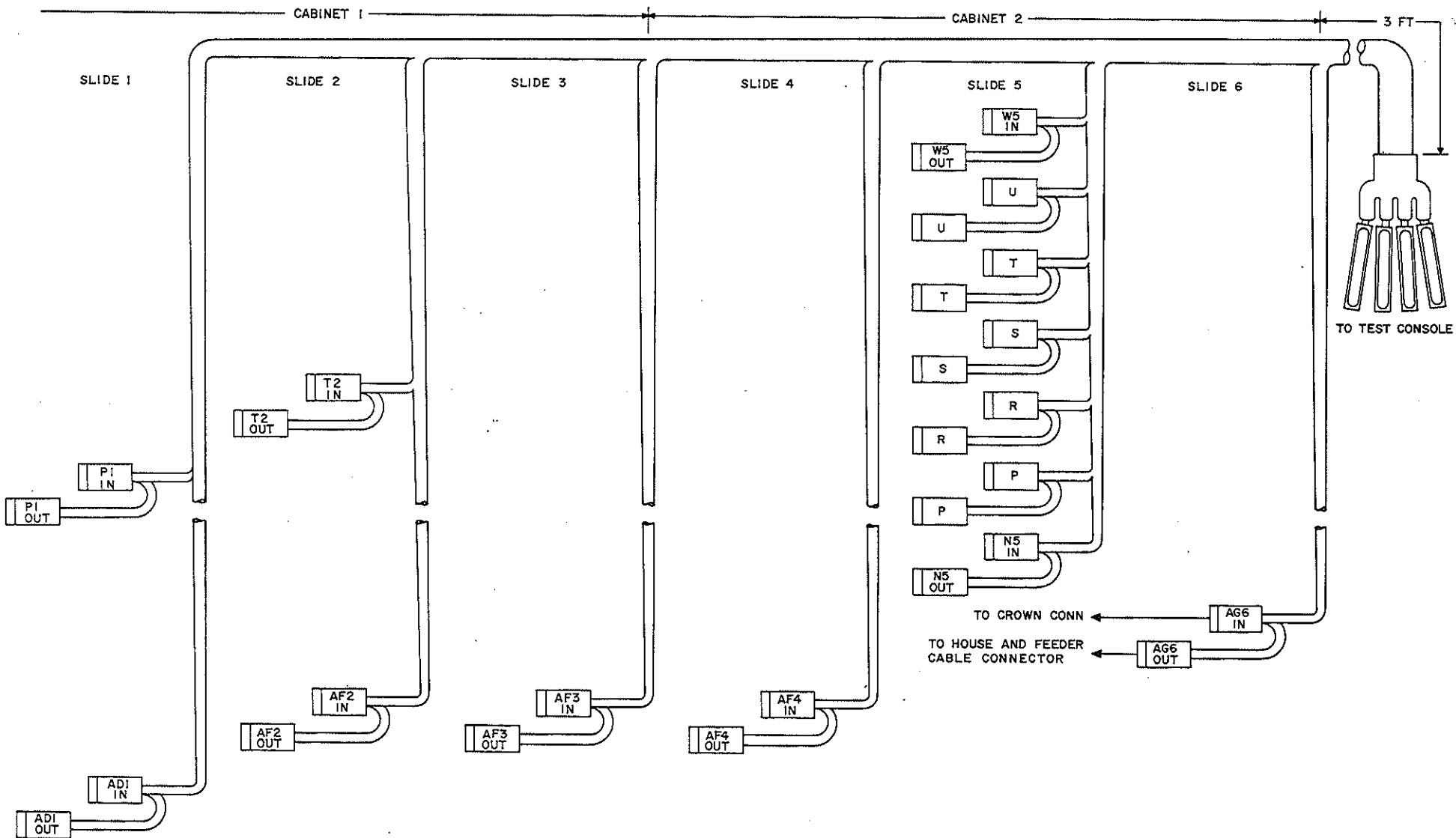


FIG. 1 -- J58829A, L58 CONSOLE TEST CABLE

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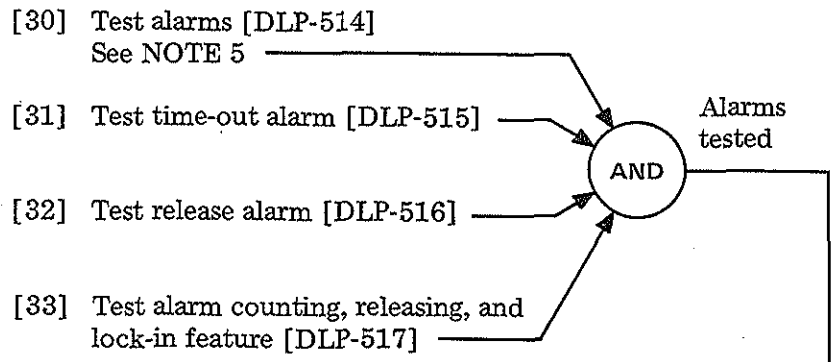
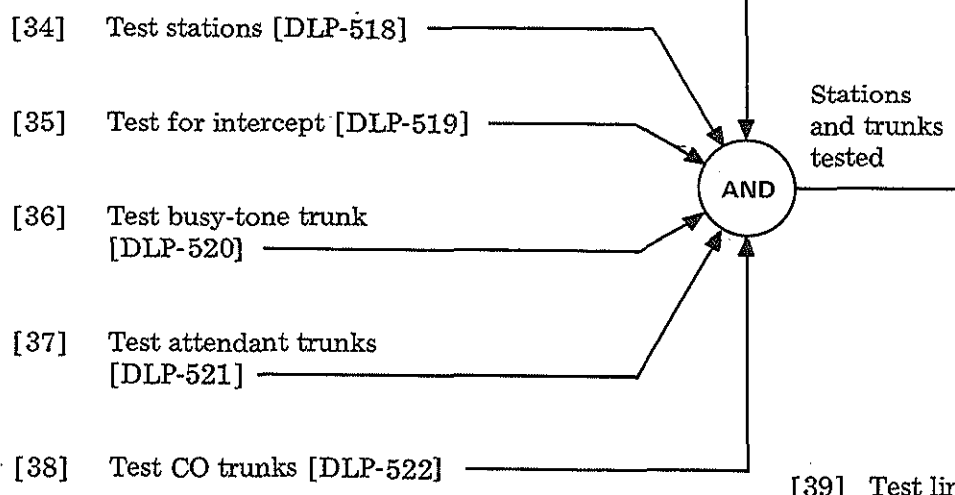
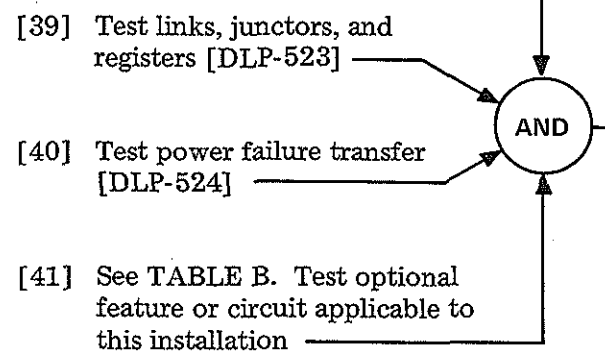


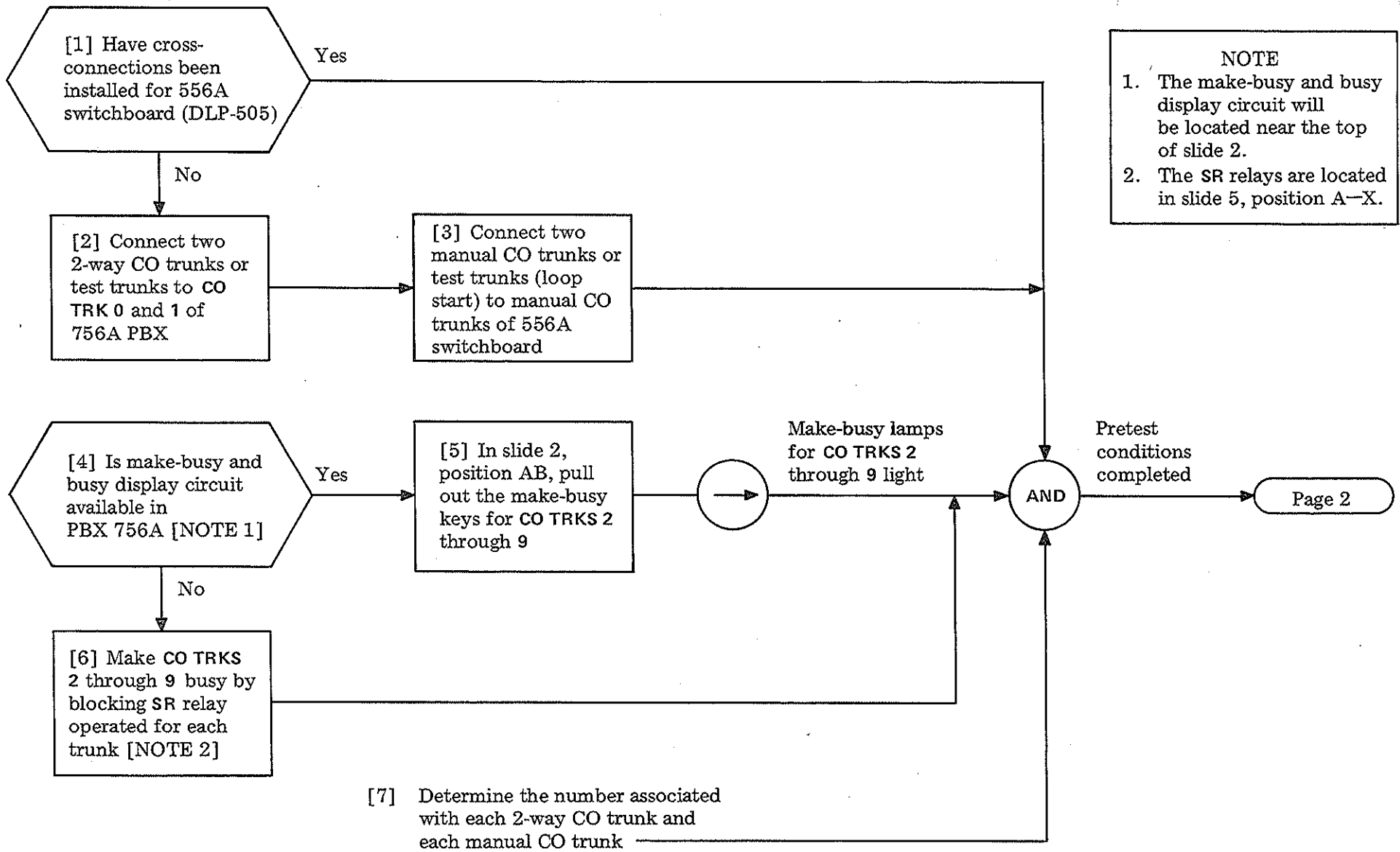
TABLE B	
FEATURE OR CIRCUIT	PROCEDURE
Restricted Stations	DLP-525
Toll Denied Stations	DLP-526
2-Way Station Hunting Groups	DLP-526
1-Way Station Hunting Groups	DLP-526
Fixed Nite Service	DLP-528
Flexible Nite Service	DLP-529



NOTE 5
When testing, do not disconnect test equipment at the end of each step until test setup for next step has been determined



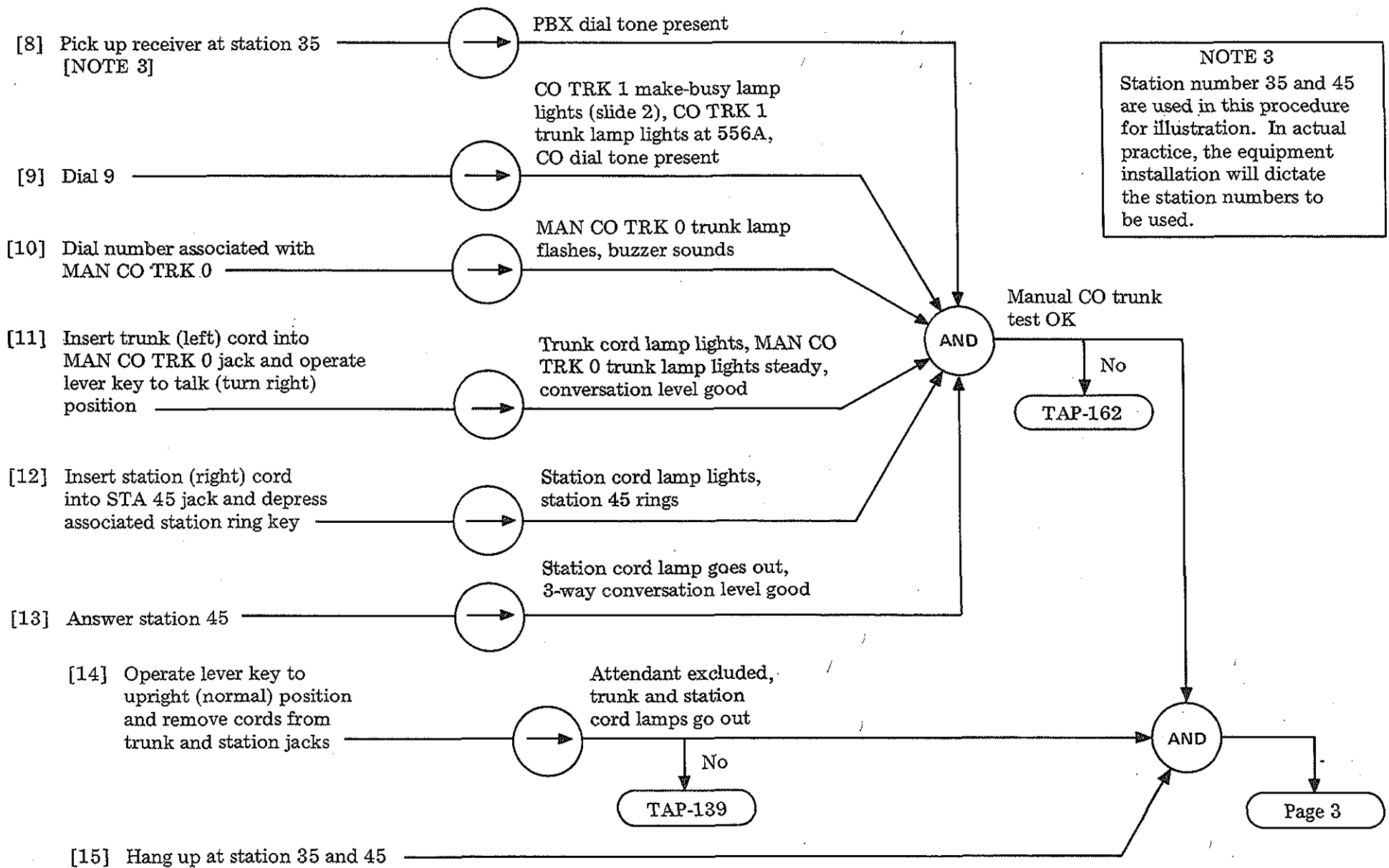
[42] Disconnect all test equipment and cables used in test



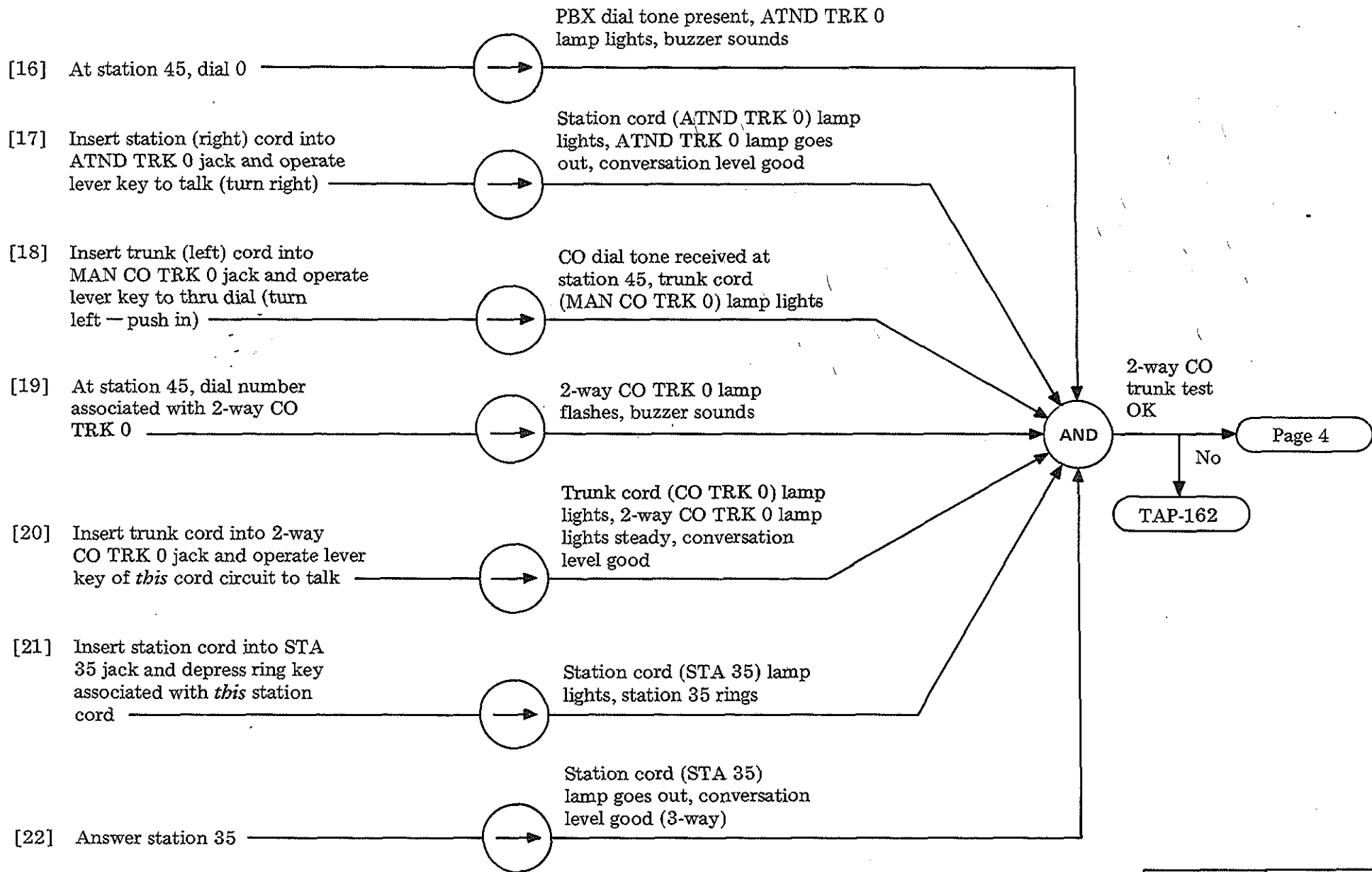
NOTE

1. The make-busy and busy display circuit will be located near the top of slide 2.
2. The SR relays are located in slide 5, position A-X.

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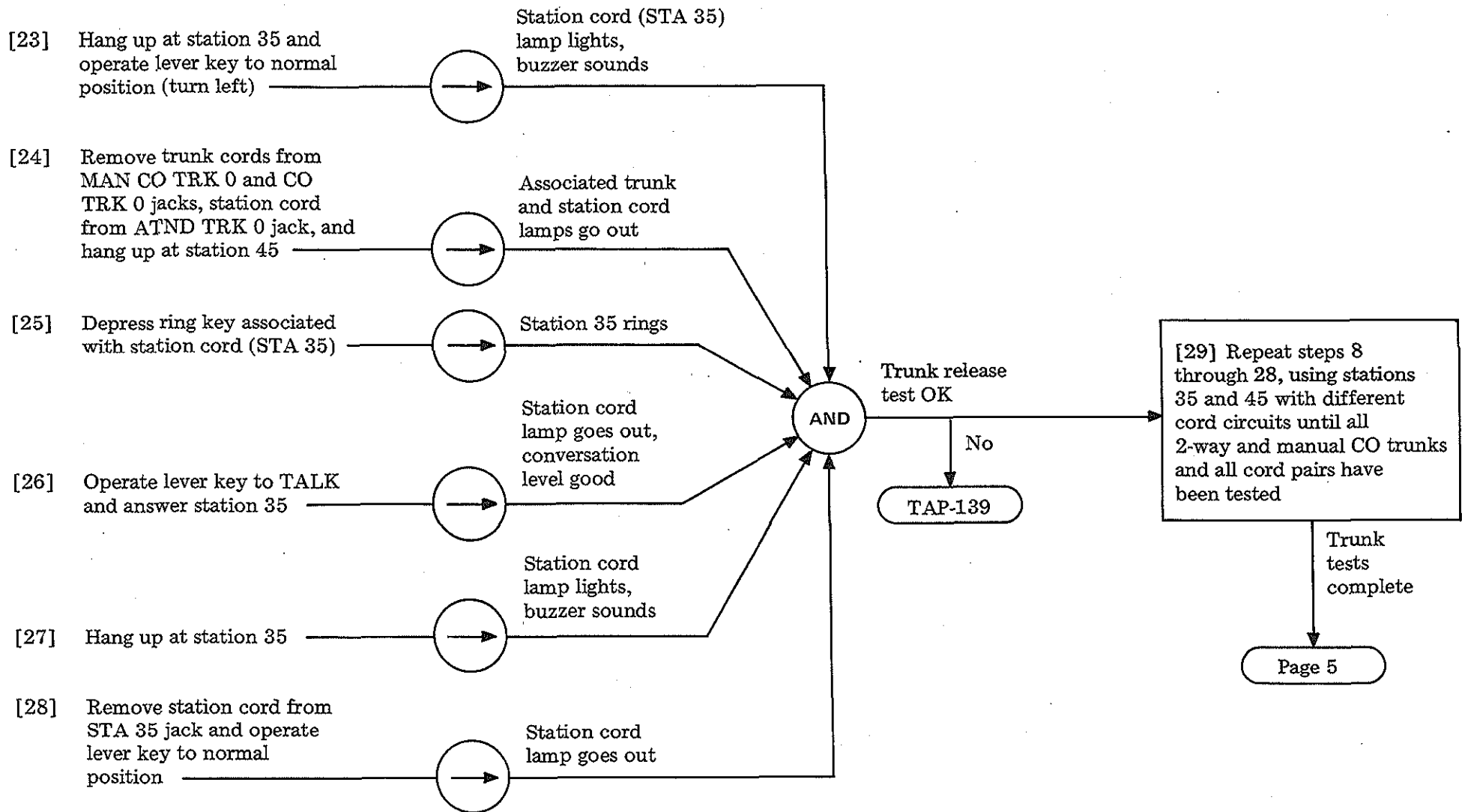


NOTE 3
 Station number 35 and 45 are used in this procedure for illustration. In actual practice, the equipment installation will dictate the station numbers to be used.



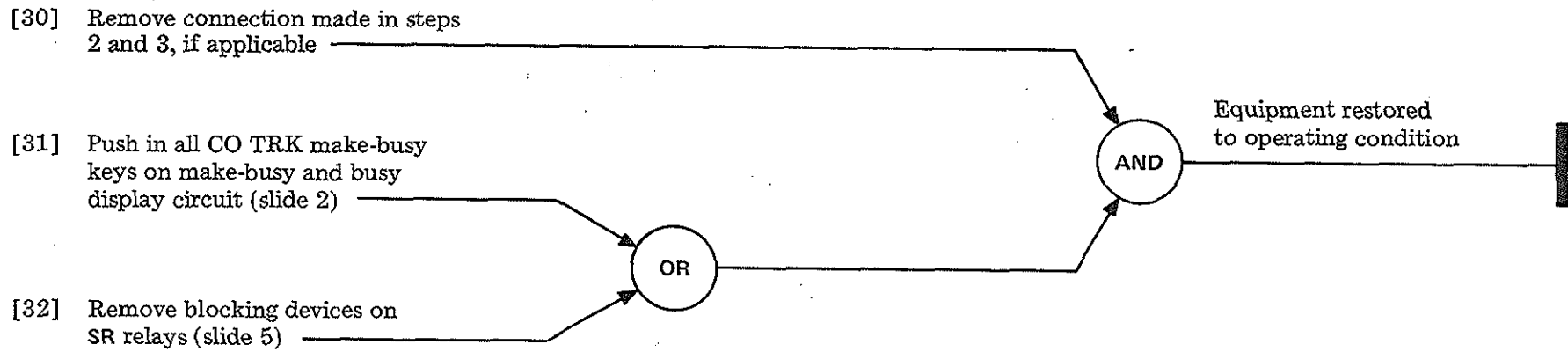
TEST 2-WAY CENTRAL OFFICE AND MANUAL CENTRAL OFFICE TRUNKS AT 556A SWITCHBOARD

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TEST 2-WAY CENTRAL OFFICE AND MANUAL CENTRAL OFFICE TRUNKS AT 556A SWITCHBOARD

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[1] Connect 500-type telephone to STA 20 terminals at cross-connect terminal (see NOTE 1)

[2] Lift handset from STA 20 → PBX dial tone heard

[3] Dial 0 → ATND TRK 0 lamp flashes, buzzer heard

[4] Insert station cord of cord pair into ATND TRK 0 jack → ATND TRK 0 lamp on steady, buzzer off

[5] Operate TALK and DIAL key to TALK (turn right) position → Conversation good

[6] Pull station cord from ATND TRK 0 jack

NOTE 1
The station end of this test is specified at the cross-connect terminal for convenience. If stations are installed, the test is more valid if installed station is used for test

AND

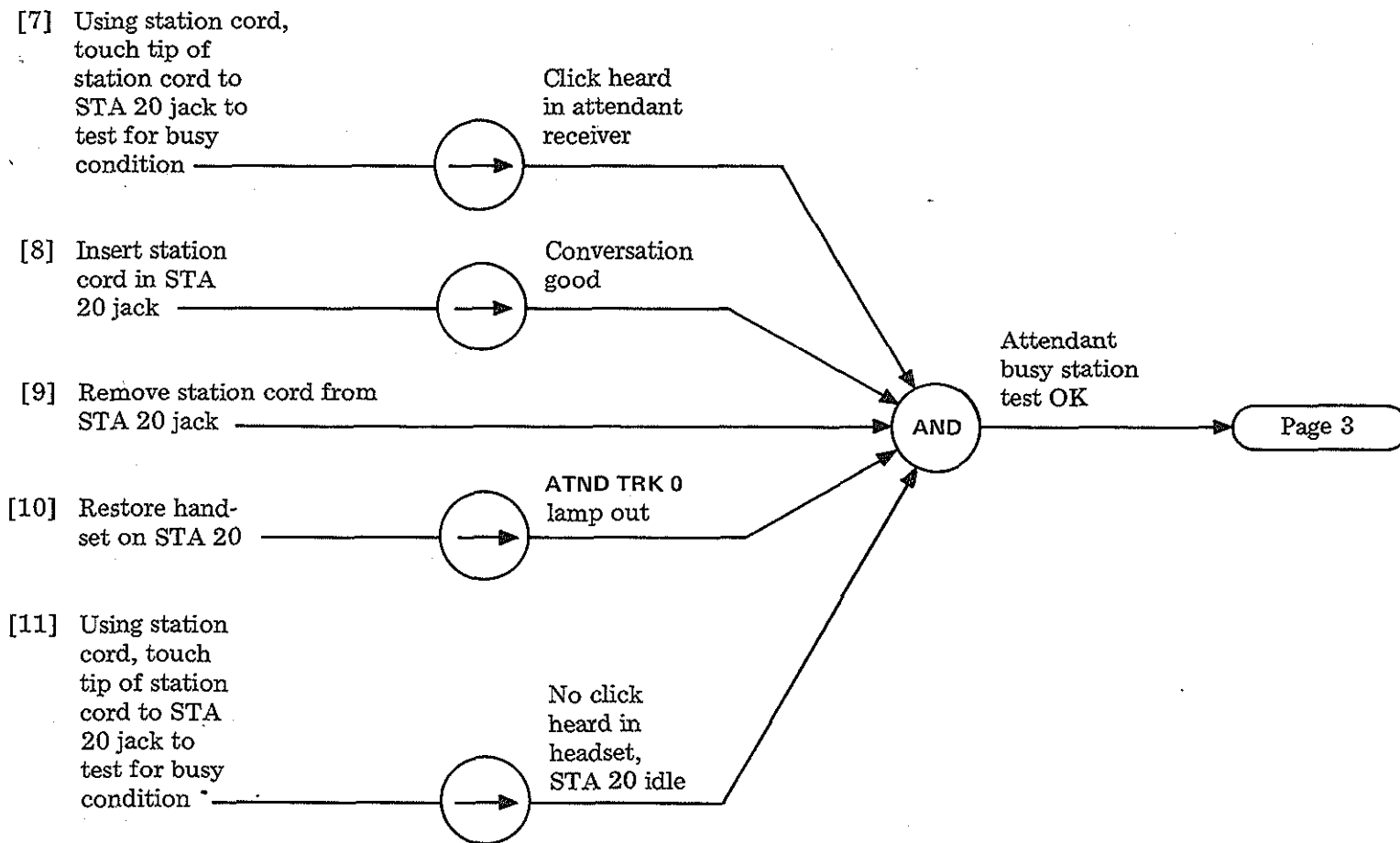
Station-to-attendant call test OK

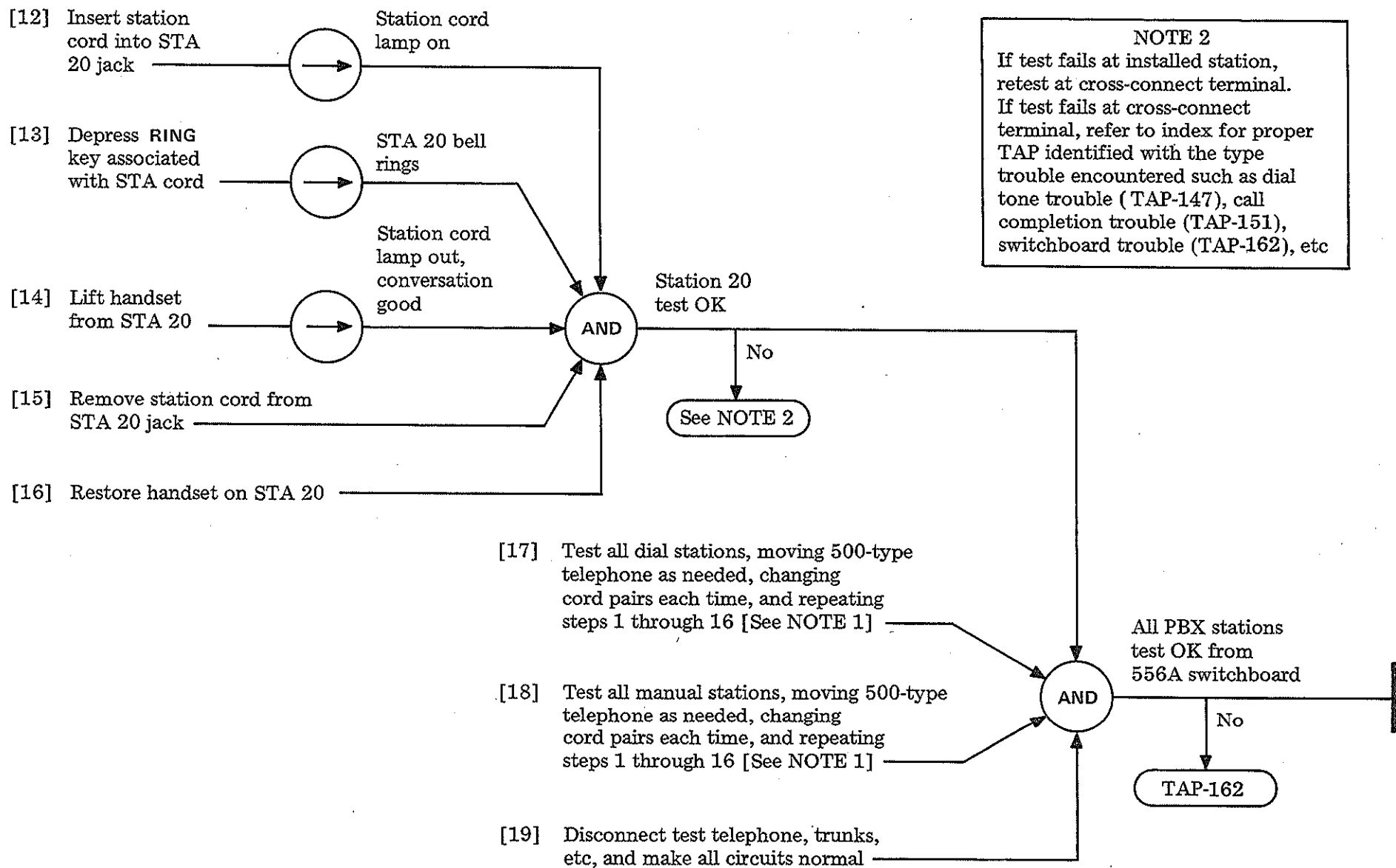
Page 2

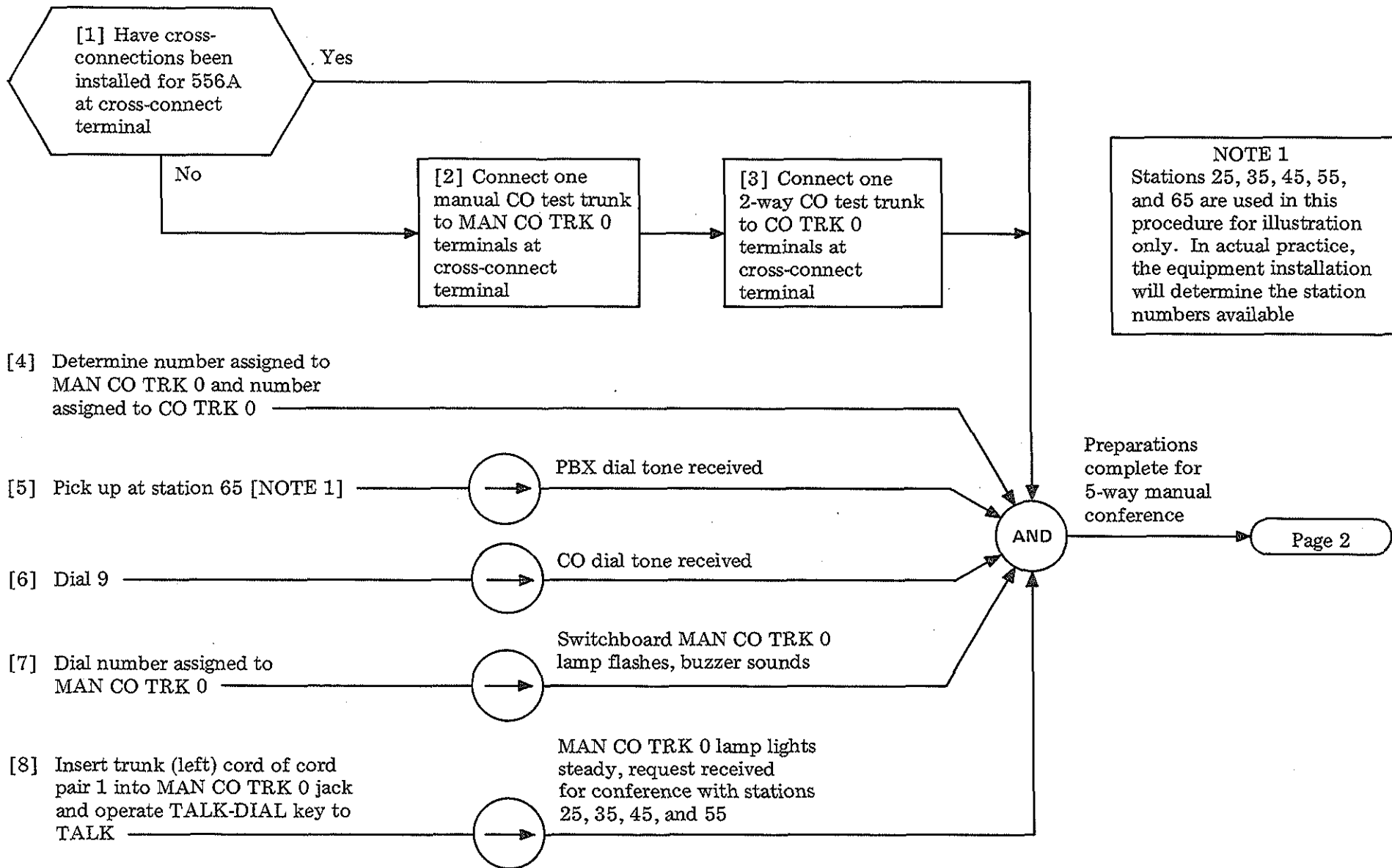
No

TAP-162

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NOTE 1
 Stations 25, 35, 45, 55, and 65 are used in this procedure for illustration only. In actual practice, the equipment installation will determine the station numbers available

[4] Determine number assigned to MAN CO TRK 0 and number assigned to CO TRK 0

[5] Pick up at station 65 [NOTE 1] → PBX dial tone received

[6] Dial 9 → CO dial tone received

[7] Dial number assigned to MAN CO TRK 0 → Switchboard MAN CO TRK 0 lamp flashes, buzzer sounds

[8] Insert trunk (left) cord of cord pair 1 into MAN CO TRK 0 jack and operate TALK-DIAL key to TALK → MAN CO TRK 0 lamp lights steady, request received for conference with stations 25, 35, 45, and 55

TEST MANUAL CONFERENCE CIRCUIT AT 556A SWITCHBOARD

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[9] Insert station (right) cord of cord pair 1 into MAN CONF STA or TRK jack 5 [NOTE 2]

[10] Insert station cord of cord pair 4 into STA 25 jack and depress RING key associated with this station cord

Station cord lamp lights, station 25 rings

[11] Insert trunk cord of cord pair 4 into MAN CONF STA jack 1

[12] Answer station 25

Station cord lamp goes out, conversation (3-way) level good

[13] Repeat steps 10, 11, and 12 until stations 35, 45, and 55 are added to conference circuit. Use cord pairs 7, 10, and 15 and MAN CONF STA jacks 2, 3, and 4

[14] Disconnect test trunks, as applicable (steps 2 and 3)

[15] Remove cords from trunk, station, and conference jacks

[16] Replace receivers at stations 25, 35, 45, 55, and 65

NOTE 2
Jacks 1, 2, and 3 of the switchboard conference circuits are for stations only. Jacks 4 and 5 can be used for stations or trunks

AND

5-way manual conference complete. Test OK

No

TAP-162

Equipment restored to operating condition

AND

TEST MANUAL CONFERENCE CIRCUIT AT 556A SWITCHBOARD

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[1] At slide 1G, set AC switch to ON

[2] At slide 1M, turn rectifier on

[3] At slide 1AA, depress AR key

Alarm lamps out
No
TIL-095

[4] Manually operate relays listed in TABLE A

No
TIL-095
TR lamp off momentarily

[5] Manually operate TR relay (at 1X) momentarily

[6] Manually operate EXT relay (at 1X) momentarily

EXT lamp on momentarily

[8] Manually operate R relay (at 1X) momentarily

FA and TR lamps on momentarily

[9] Manually operate S relay momentarily

PA and TR lamps on momentarily

[7] Depress AR key to extinguish alarm lamps

[10] Depress AR key

NOTE
Refer to TIL-095 if test indications are not met in this procedure

TABLE A							
SLIDE	RELAY	POSITION	LAMP	SLIDE	RELAY	POSITION	LAMP
1	UAL	AA	UAL	1	LAL2A	AA	LAL2A
1	UAL1A	AA	UAL1A	1	TOALA	AA	TOALA
1	UAL2	AA	UAL2	1	MAL	AB	MAL
1	TRAL	AA	TRAL	1	COAL	AB	COAL
1	JRAL	AA	JRAL	1	XCAL	AB	XCAL
1	RLAL	AA	RLAL	1	FA	X	FA
1	TAL	AA	TAL	1	RB	X	PA
1	TAAL	AA	TAAL	1			
1	LAL1	AA	LAL1	6	TS	R	TS*

*Slide 1 position AA

TEST MARKER ALARMS

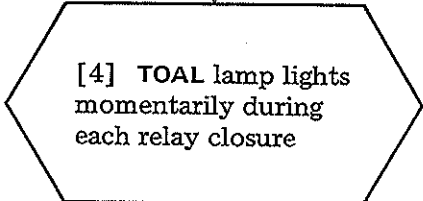
At slide 1, mounting plate AB (1AB)

[1] Block relay AL nonoperated

[2] Locate TOAL lamp



[3] At slide 6, momentarily operate relays listed in TABLE A while observing TOAL lamp



Yes

[7] At 1AB, remove blocking tool from AL relay

No

No

[5] Check TOAL lamp and relay [FIG. 1]

[6] See FIG. 2. Check contacts of relay being operated and companion relay [SD-65741]

TABLE A	
RELAY	MTG. PLATE LOC
STA	K
STB	J
NAA	K
NAB	J
MTA	K
MTB	J
TOLA	K
TOLB	J

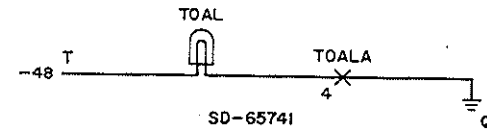


FIG. 1

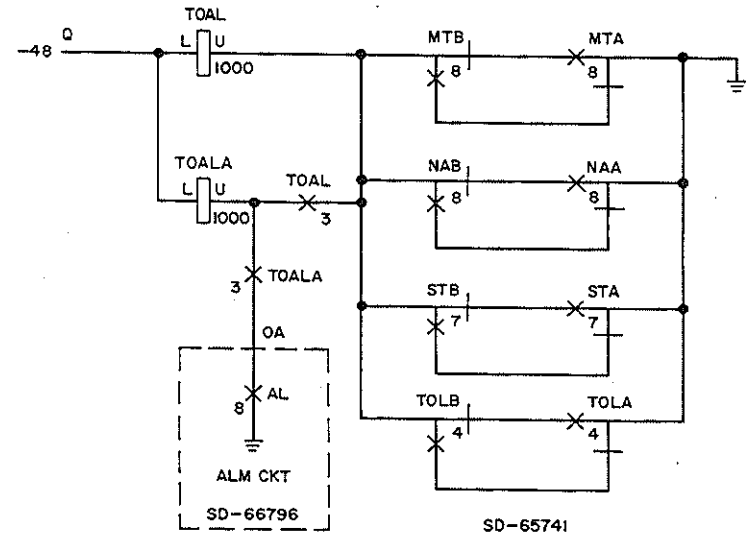


FIG. 2

[1] At slide 1AB,
block AL relay
nonoperated

[2] At slide 1AA, block
RLAL relay nonoperated

[3] At slide 6K and 6J,
insulate contact 6M of TRA
and TRB relays

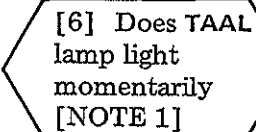
[4] Block TRA and TRB
relays operated

Test
preparation
complete



[5] At 6K,
operate
RLSAA relay
momentarily

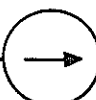
NOTE 1
When indicated results do not occur,
refer to appropriate procedure for
clearing trouble:
-TAAL alarm TAP-113
-MAL alarm TAP-106
-RLAL alarm TAP-108



No
TAP-113

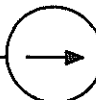
Yes

[7] Block RLSBA relay (6J)
operated



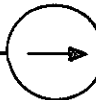
TAAL
lamp on

[8] Remove blocking tool
from TRA relay (6K)



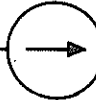
TAAL
lamp off

[9] Block TRA relay
operated



TAAL
lamp on

[10] Remove blocking tool
from TRB relay



TAAL
lamp off

[11] Remove blocking tool
from TRA relay

[12] Remove blocking tool
from RLSBA relay (6J)

[13] At 6J and 6K, remove insulators
from contact 6M of TRA
and TRB relays



Page 2

TEST RELEASE ALARM

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[14] Observe MAL lamp (1AB) while momentarily operating each relay per TABLE A

[15] Does MAL lamp light while relays are operated [NOTE 2]

Yes

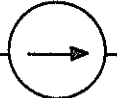
[16] At 1AA, remove blocking tool from RLAL relay

No

TAP-106

NOTE 2
When indicated results do not occur, refer to appropriate procedure for clearing trouble:
-MAL alarm TAP-106
-RLAL alarm TAP-108

[17] At 6R, operate TSDA relay momentarily

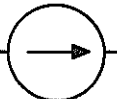


See NOTE 2
RLAL lamp on momentarily

TAP-108



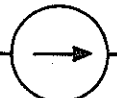
[18] Operate TSDB relay momentarily



RLAL lamp on momentarily

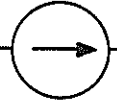
[19] At 6K and 6J, insulate contact 7B of RLSAA and RLSBA relays

[20] Block RLSA relay (6K) operated



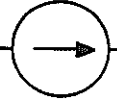
RLAL lamp on

[21] Block RLSB relay (6J) operated



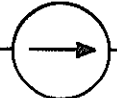
RLAL lamp off

[22] Remove blocking tool from RLSA relay (6K)



RLAL lamp on

[23] Remove blocking tool from RLSB relay (6J)



RLAL lamp off

[24] At 6J and 6K, remove insulator from contact 7B of RLSAA and RLSBA relays



Page 3

TABLE A	
RELAY	LOC.
LUCA	6V
LUCB	6U
BTCA	6T
BTCB	6S
LTA	6Q
LTB	6Q
HMKA	6V
HMKB	6U

[25] Insulate contacts 7M, B of RLSB relays (6J)

At 6K:

[26] Block RLSA relay operated → RLAL lamp on

[27] Block RLSAA relay operated → RLAL lamp off

[28] Remove blocking tool from RLSA relay → RLAL lamp on

[29] Remove blocking tool from RLSAA relay → RLAL lamp off

At 6J:

[30] Block RLSB relay operated → RLAL lamp on

[31] Block RLSBA relay operated → RLAL lamp off

[32] Remove blocking tool from RLSB relay → RLAL lamp on

[33] Remove blocking tool from RLSEBA relay → RLAL lamp off

[34] Remove insulators from contacts 7M, B of RLSB relay

AND

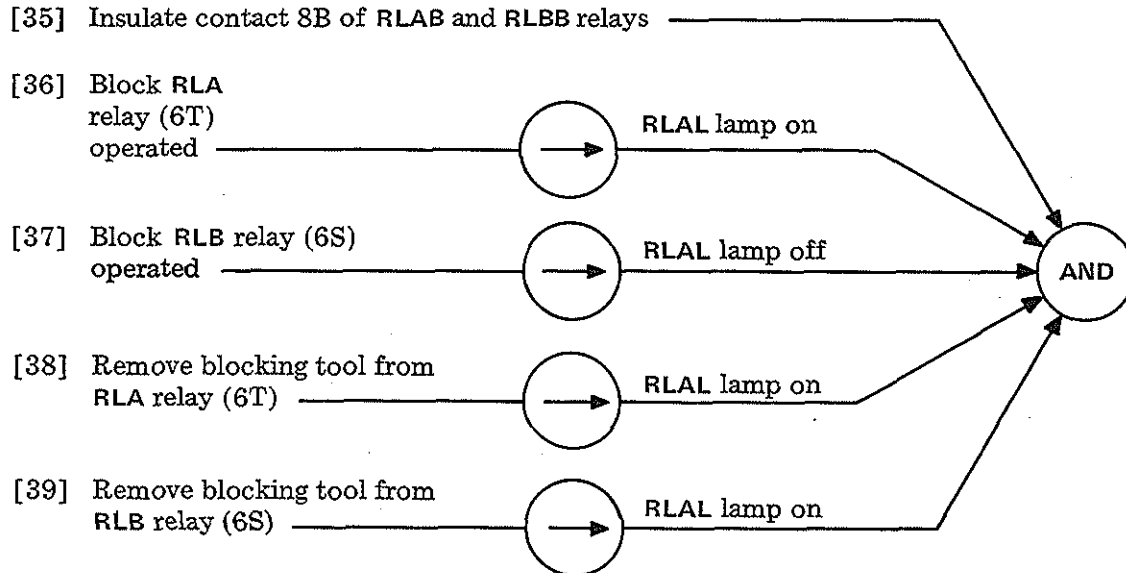
AND

Page 4

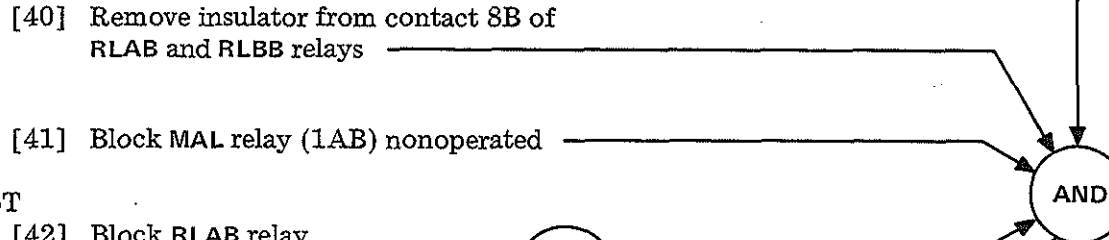
TEST RELEASE ALARM

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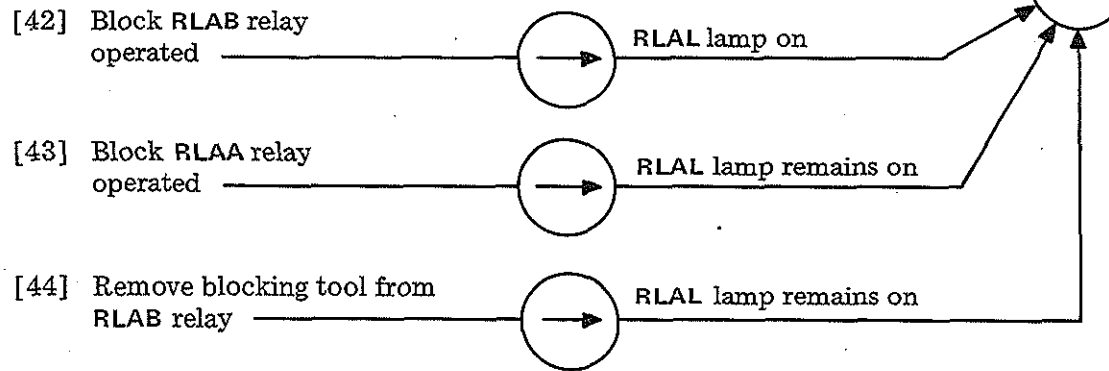
At 6T and 6S:



At 6T and 6S:



At 6T

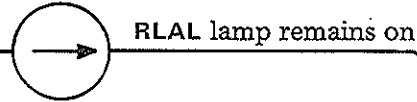


Page 5

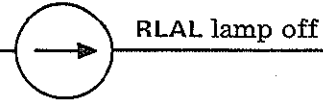
[45] Insulate contacts 8M, B of RLB relay (6S)

At 6T:

[46] Block RLA relay operated



[47] Block RLAB relay operated



[48] Remove blocking tool from RLAA relay

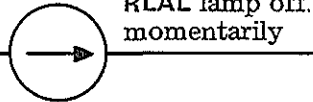


[49] Remove blocking tool from RLAB relay

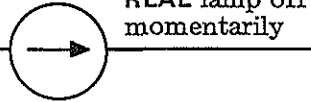


At 6P

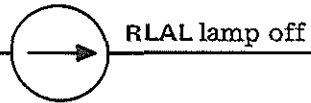
[50] Operate ALBA relay momentarily



[51] Operate ALBB relay momentarily



[52] Remove blocking tool from RLA relay (6T)

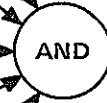


At 6S

[53] Block RLBB relay operated



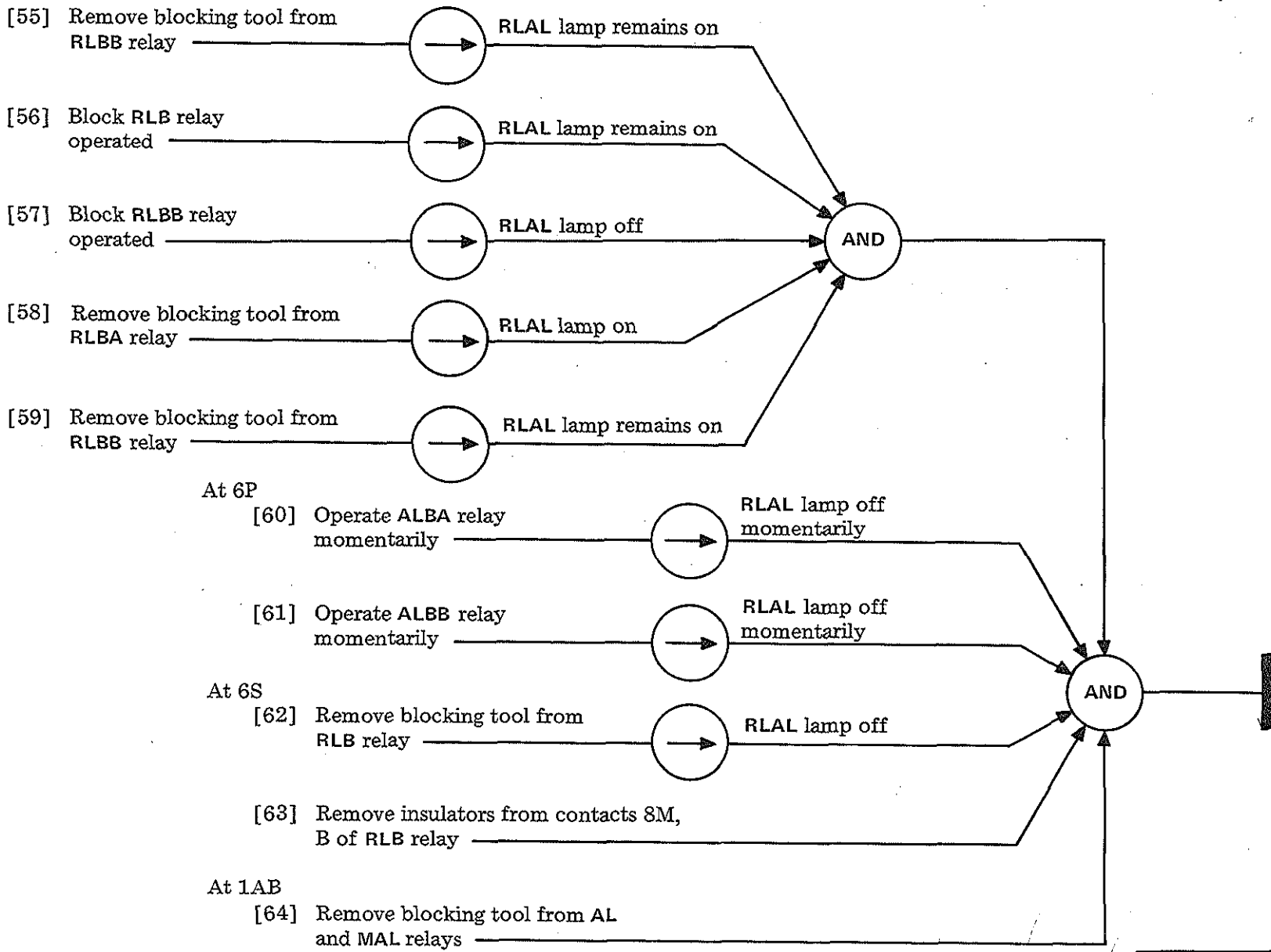
[54] Block RLBA relay operated



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TEST RELEASE ALARM

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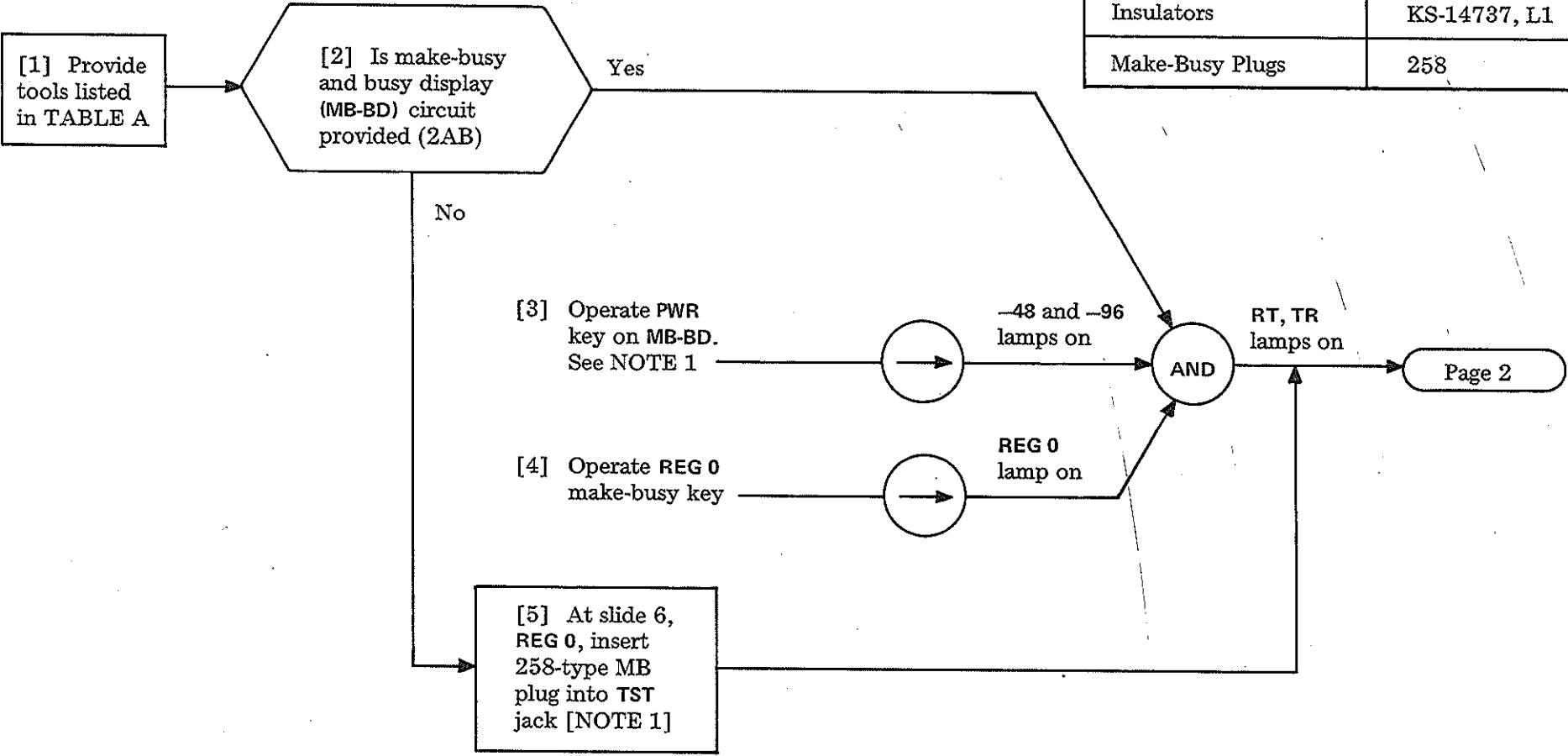


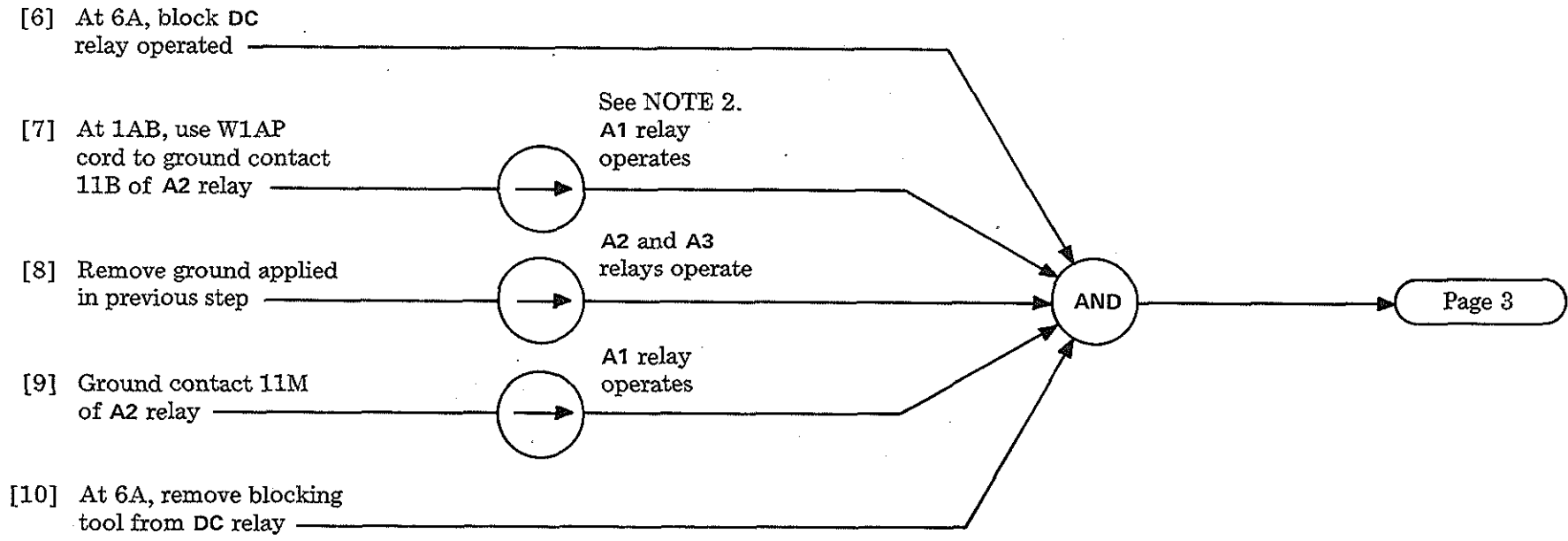
TEST RELEASE ALARM

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NOTE 1
 Notify the PBX attendant of test being conducted so resultant alarms may be disregarded

TABLE A	
EQUIPMENT REQUIRED	RECOMMENDED TYPE
Blocking Tools	KS-16887, L1
Cords	W1AP
Insulators	KS-14737, L1
Make-Busy Plugs	258





NOTE 2
 When indicated relay does not operate, refer to SD-66796 (sheet B2) and check operate path of relay

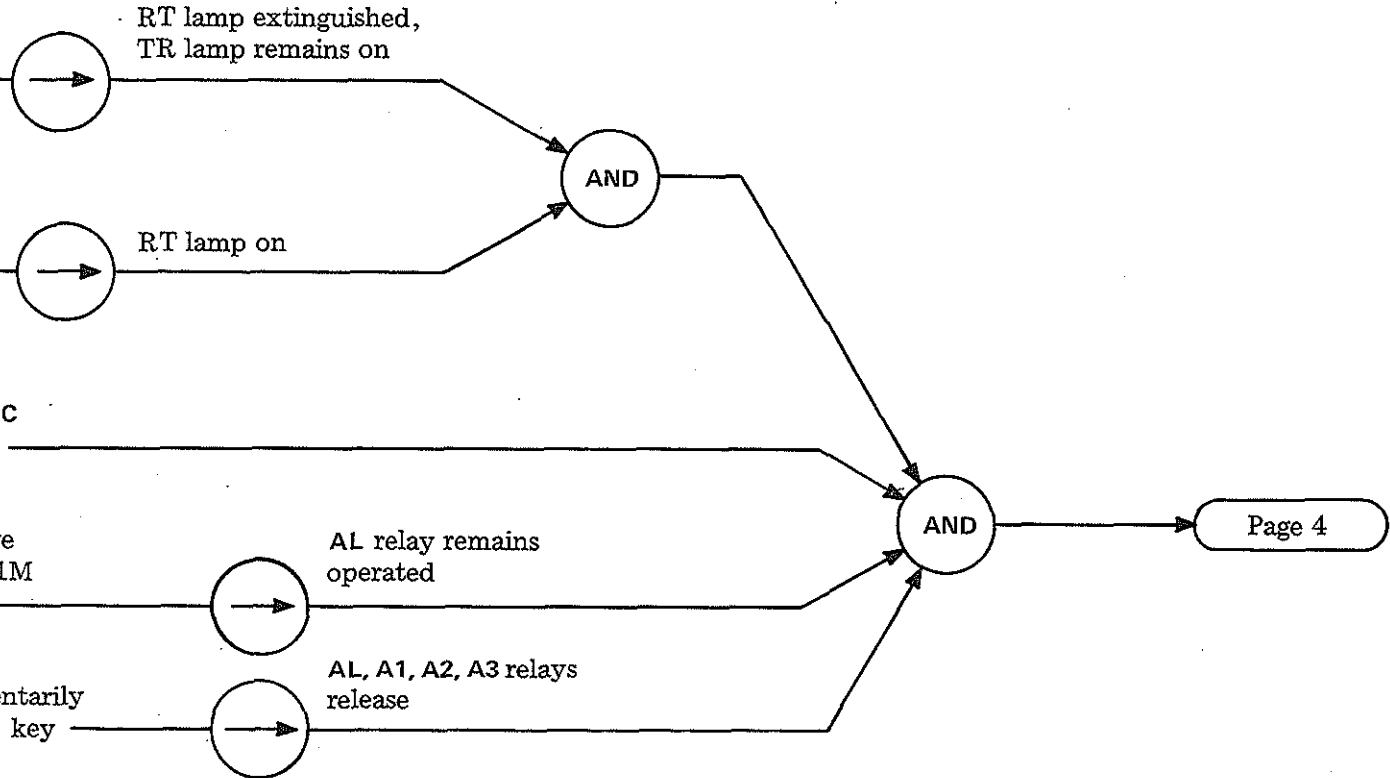
[11] At MB-BD, push in
REG 0 make-busy key.
(If MB-BD is not
provided, remove 258-
type MB plug from
REG 0 test jack)

[12] Make REG 0 busy
again at MB-BD
or by using register
MB plug

[13] At 6A, block DC
relay operated

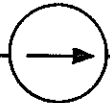
[14] At 1AB, remove
ground from 11M
of A2 relay

[15] At 1AB, momentarily
operate the AR key



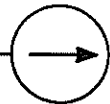
At slide 1:

[16] Ground 11B contact
of A2 relay



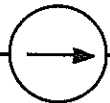
A1 relay
operates

[17] Remove ground from
11B of A2 relay



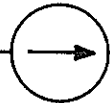
A2 and A3 relays
operate

[18] Insulate contact
12M of A2 relay



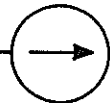
A4 relay operates
A1 relay releases

[19] Remove insulation
from 12M of
A2 relay



A3 relay
releases

[20] Insulate 12M of
A2 relay



A2 and A4 relays
released

[21] At 6A, remove
blocking tool from
DC relay



AND

Page 5

[22] At MB-BD, push in REG 0 and PWR keys.
 (If MB-BD is not provided, remove REG 0 MB plug from the register at slide 6)

At slide 1:

[23] Remove insulation from 12M of A2 relay

[24] Insulate contact 11B of A2 relay

[25] Block AL relay nonoperated

[26] At slide 6K, operate and release MTA relay

HO relay (1AB) momentarily operates

[27] At slide 1AB, remove blocking tool from AL relay

[28] At slide 1AA, operate and release TOALA relay

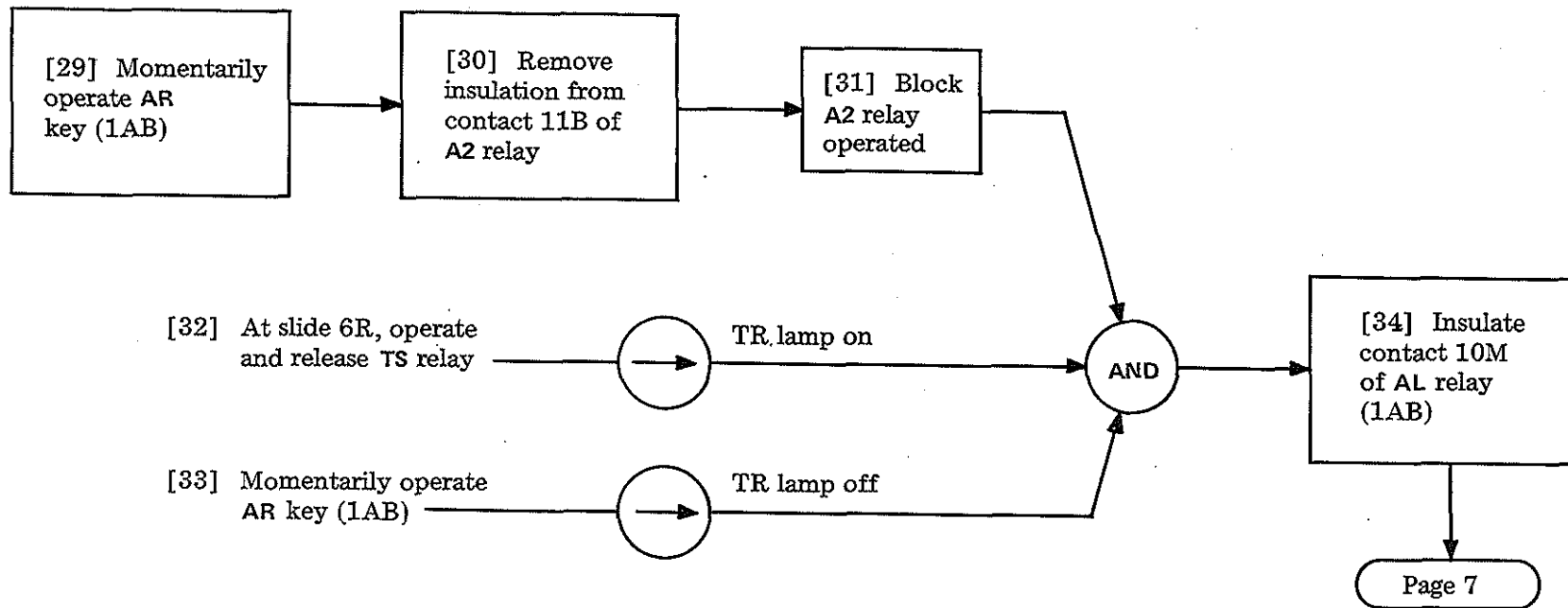
TR lamp lights



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TEST ALARM COUNTING, RELEASING, AND LOCK-IN

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[35] Operate and release each relay listed in TABLE B while observing TR lamp. TR lamp should go on and off as each relay is operated [NOTE 3]

[36] Remove blocking tool from A2 relay (1AB)

[37] Remove insulation from contact 10M of A2 relay (1AB)



TABLE B	
RELAY	LOCATION
MAL	1AB
COAL*	1AB
XCAL*	1AB
UAL2	1AA
UAL	1AA
RLAL	1AA
TAAL	1AA
JRAL	1AA
TAL	1AA
TRAL	1AA
LAL1	1AA
LAL2A	1AA
UAL1A	1AA
* SD-65741, Issue 33 or later.	

NOTE 3
If TR lamp does not operate as indicated, refer to SD-66796 and check DC operate path(s) of TR relay (sheet B2)

[1] Plug console handset into telephone jacks on left side of console

[2] See FIG. 1 and TABLE A. Turn NITE key off (right)

[3] See FIG. 1 and TABLE A. Turn AUD key on (left)

[4] Connect test handset (MON position) to station 20 terminals at cross-connect terminal

[5] Depress ATND TRK 0 key

1. Station lamp on
2. PBX dial tone heard

1. TAP-137
2. TAP-147

[6] Dial or depress station 20 DSS key

1. DSS 20 lamp on
2. Audible ring
3. Station 20 rings

1. TAP-129
2. TAP-151 [7]
3. TAP-151 [5]

[7] Operate handset to TALK

Ring stops,
2-way
conversation

TAP-151 [4]

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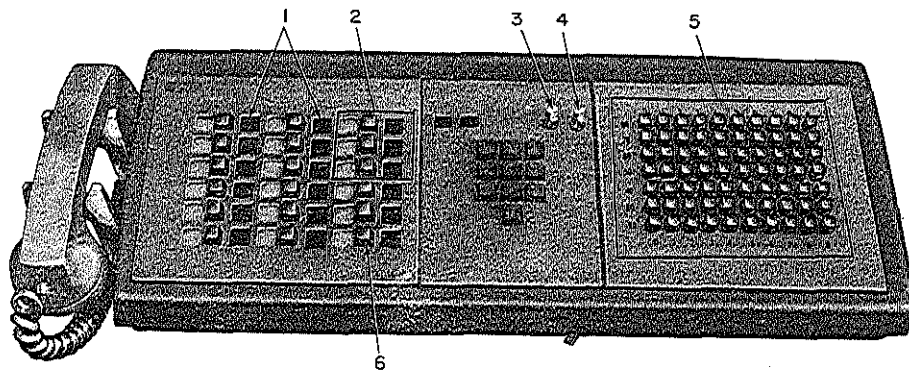
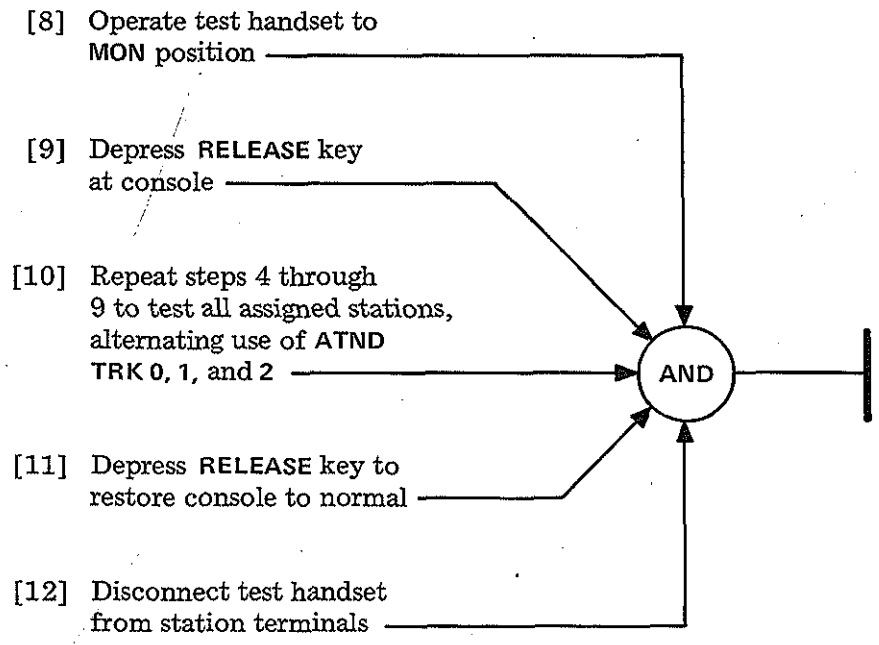


FIG. 1-4-Type Console

TABLE A	
KEY NUMBER	CONSOLE COMPONENTS
1	Station lamps
2	ATND TRK keys and lamps
3	NITE service key
4	Audible (AUD) signal cut-off key
5	DSS pushbutton keys
6	RELEASE key



TEST STATIONS

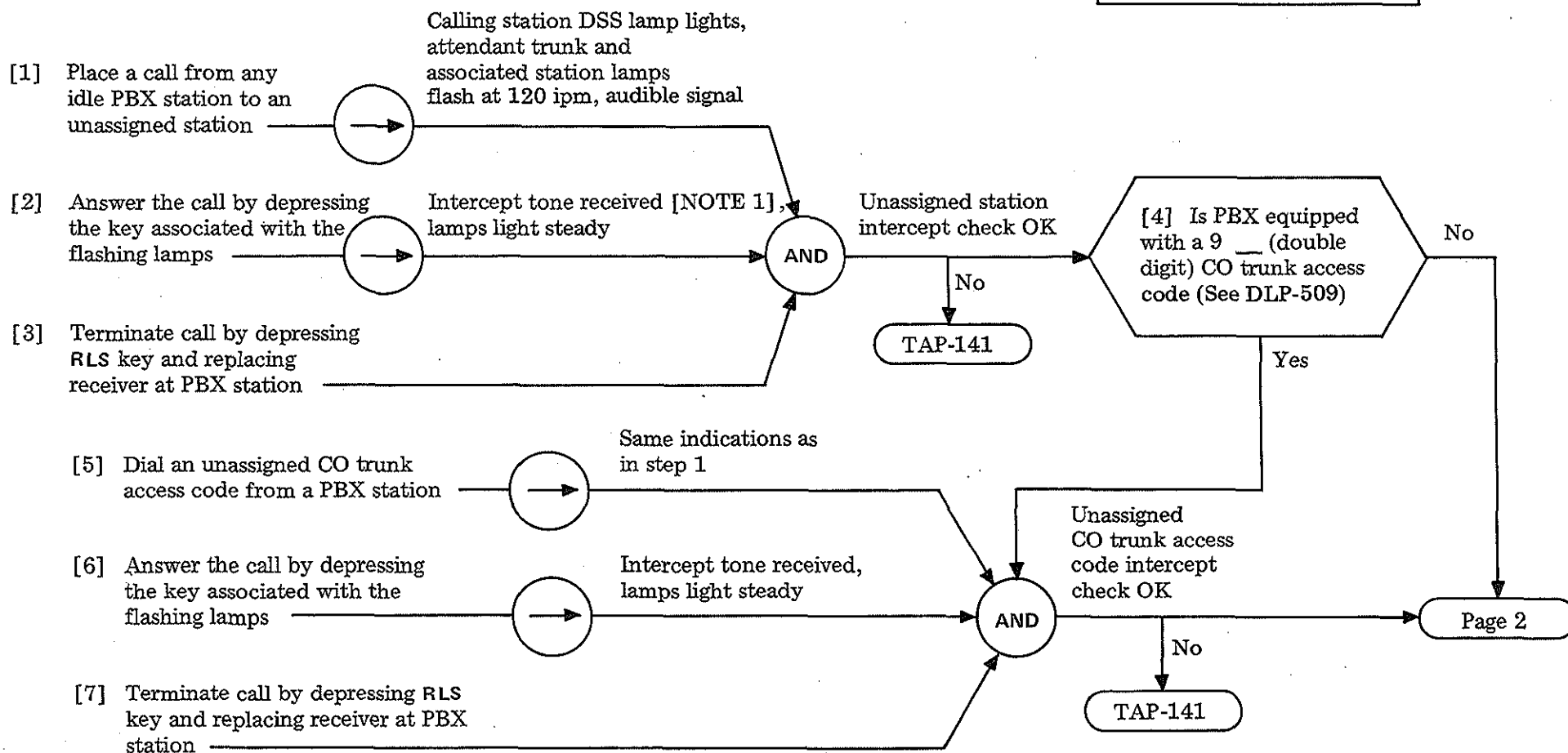
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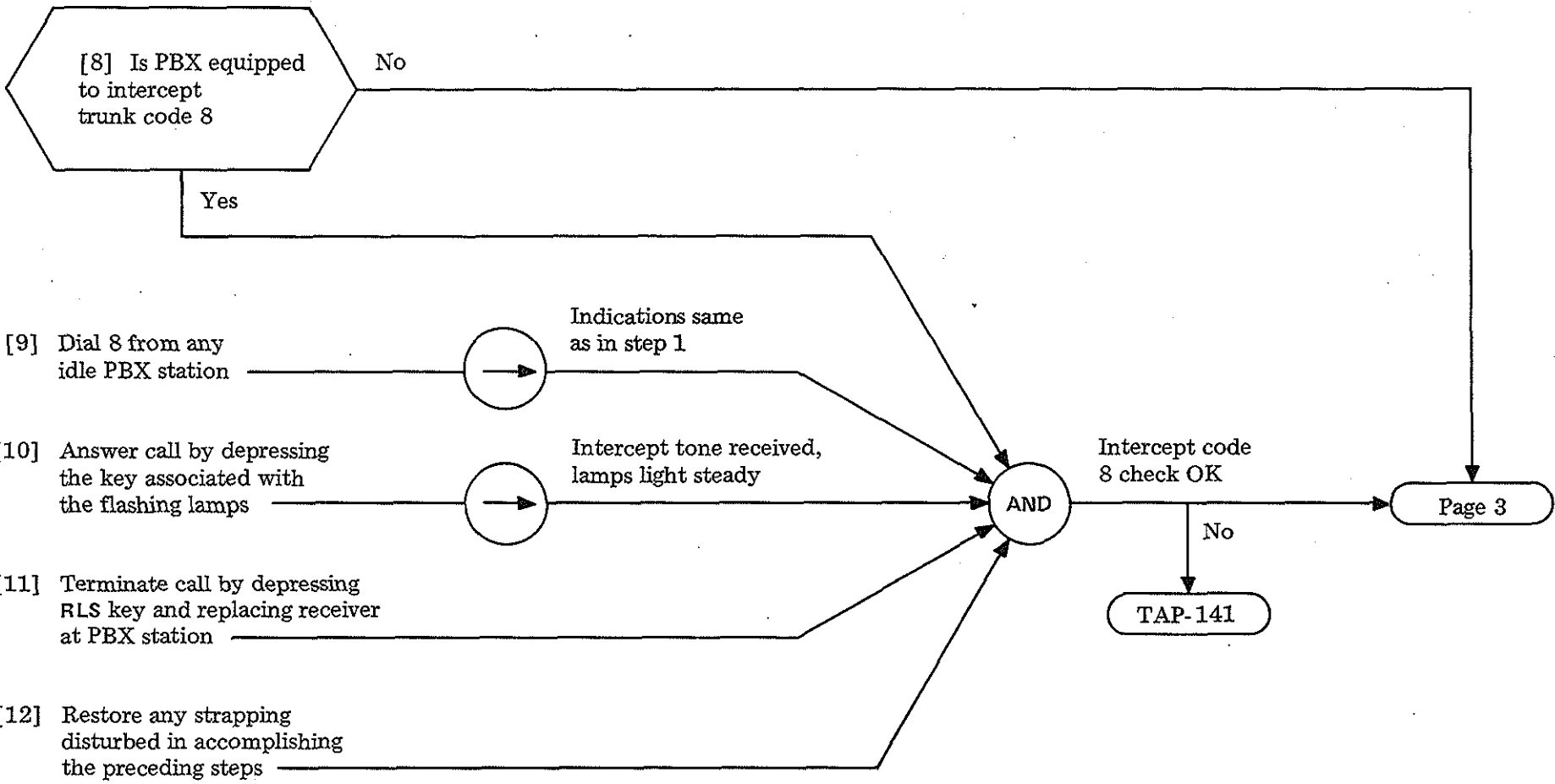
SUMMARY

This procedure checks that the PBX attendant is alerted to the following conditions: calls placed to unassigned stations, attempts to use unassigned CO trunk access codes, and excessive off-hook time (time-out). It may be necessary to remove a class-of-service strap (S to S1) to simulate an unassigned station. These straps are located on the line terminal strips (mounting plate M) in cabinet slides 2, 3, and 4.

NOTE 1

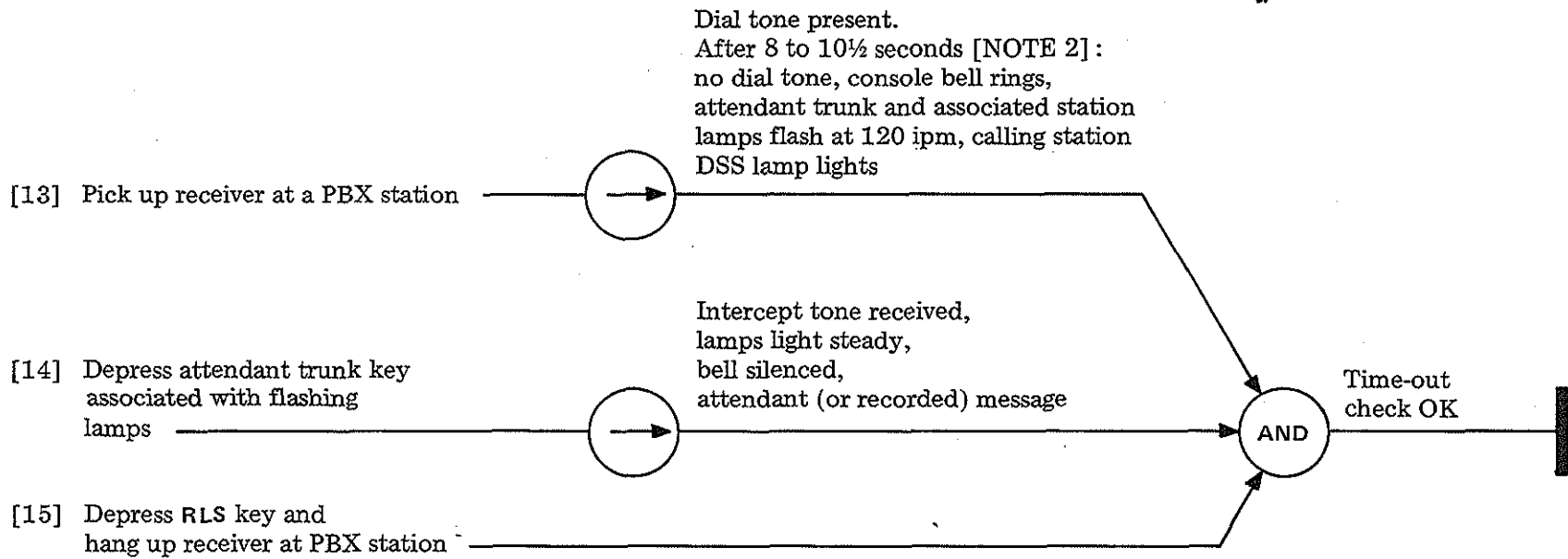
The intercept tone is a very brief burst of tone indicating to the attendant and to the calling station that this is an intercepted call.





TEST FOR INTERCEPT AND TIME-OUT

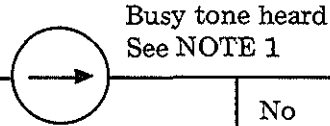
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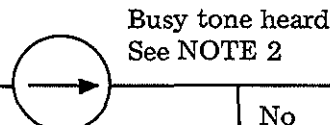
NOTE 2
Exact time required
for time-out to
occur will vary with
traffic conditions.

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[1] Select an idle PBX station not in a hunting group and make it busy by dialing its own PBX number



[2] Select another idle PBX station not in a hunting group and make it busy by dialing its own PBX number

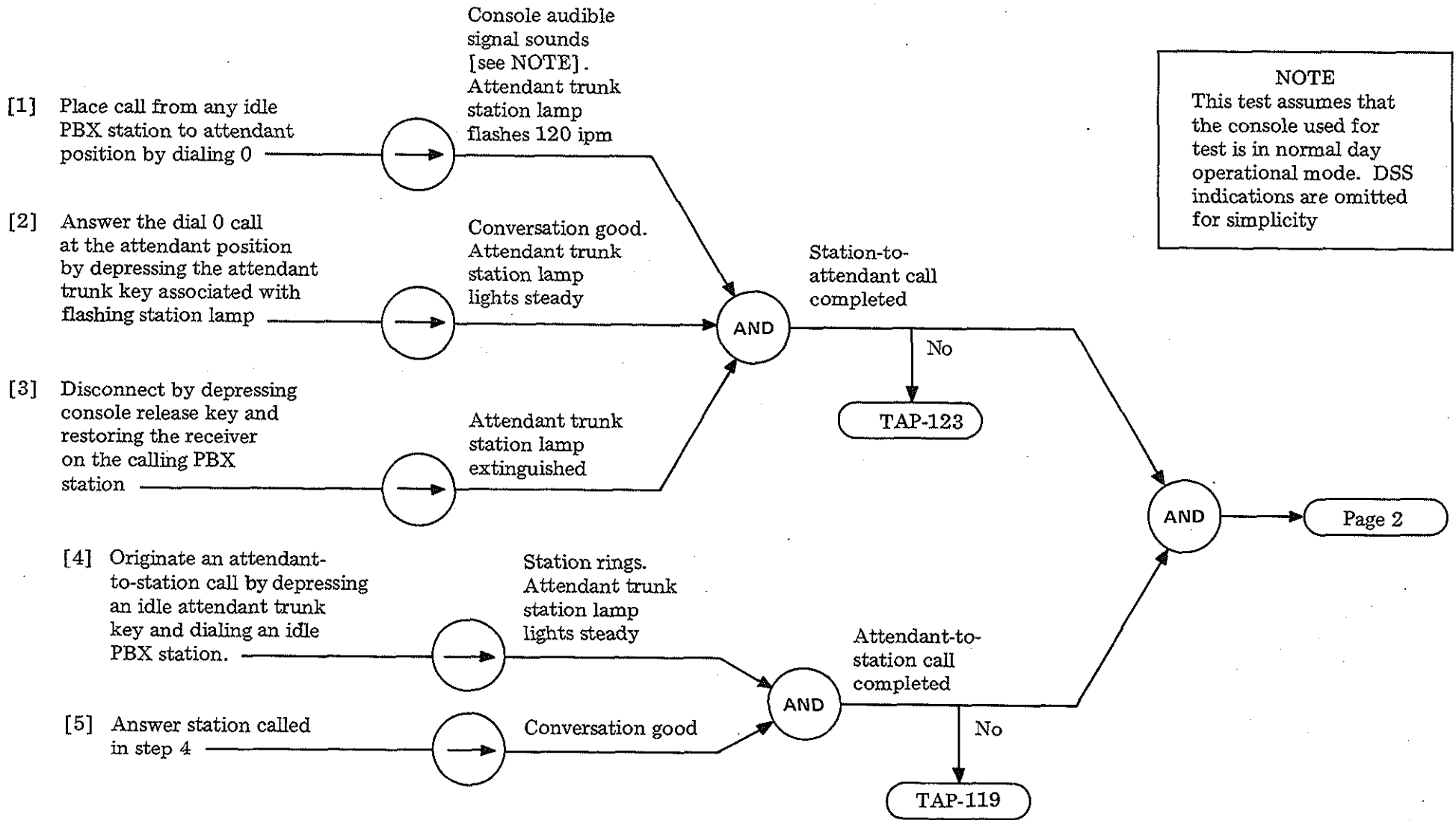


[3] Restore handsets of stations used to place test calls in steps 1 and 2

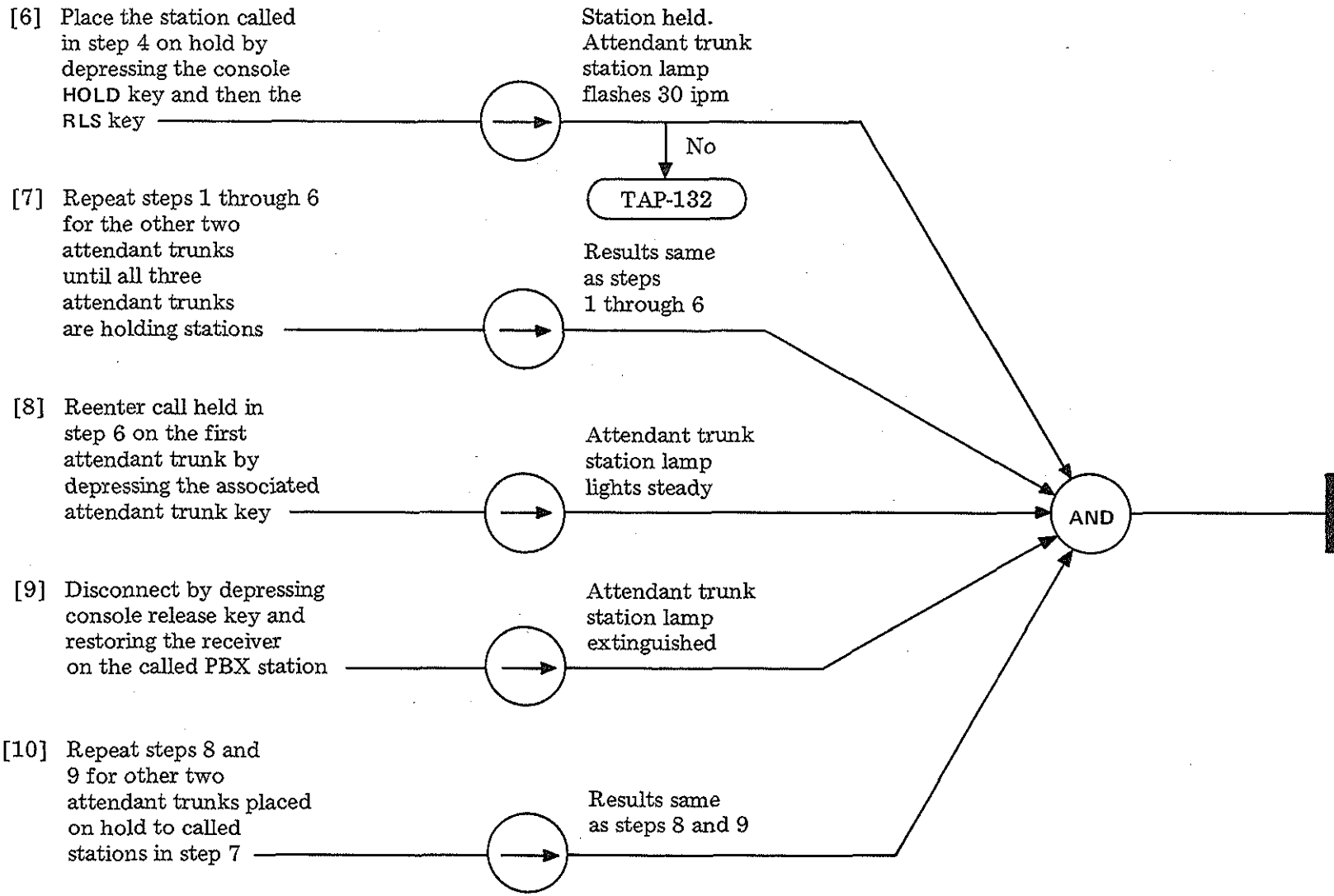


NOTES

1. The busy-tone trunk supplies the first busy tone.
2. When the busy-tone trunk is busy, dial pulse register provides the second busy tone. Register busy tone will time out after approximately 15 seconds and route call to the attendant

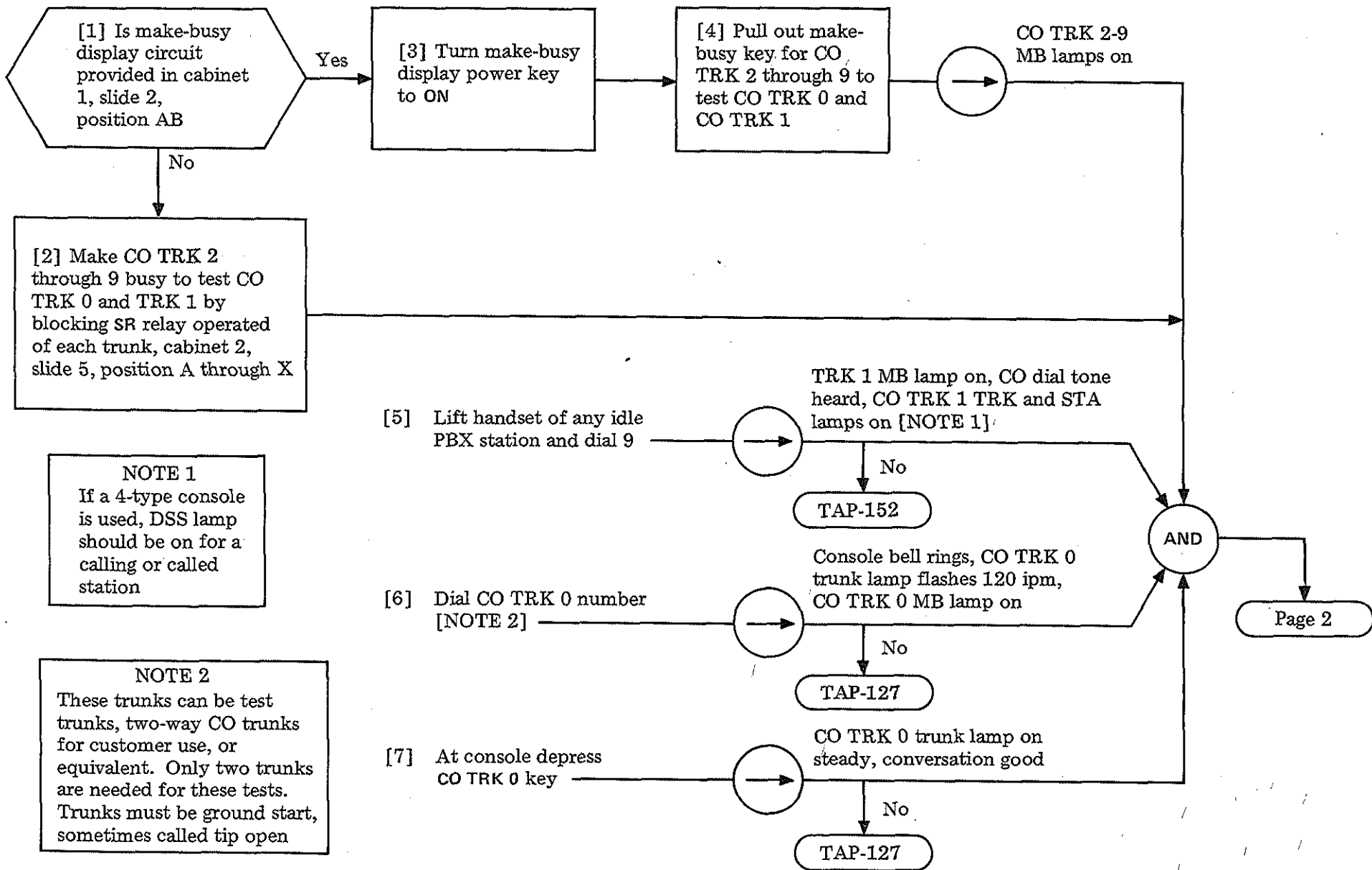


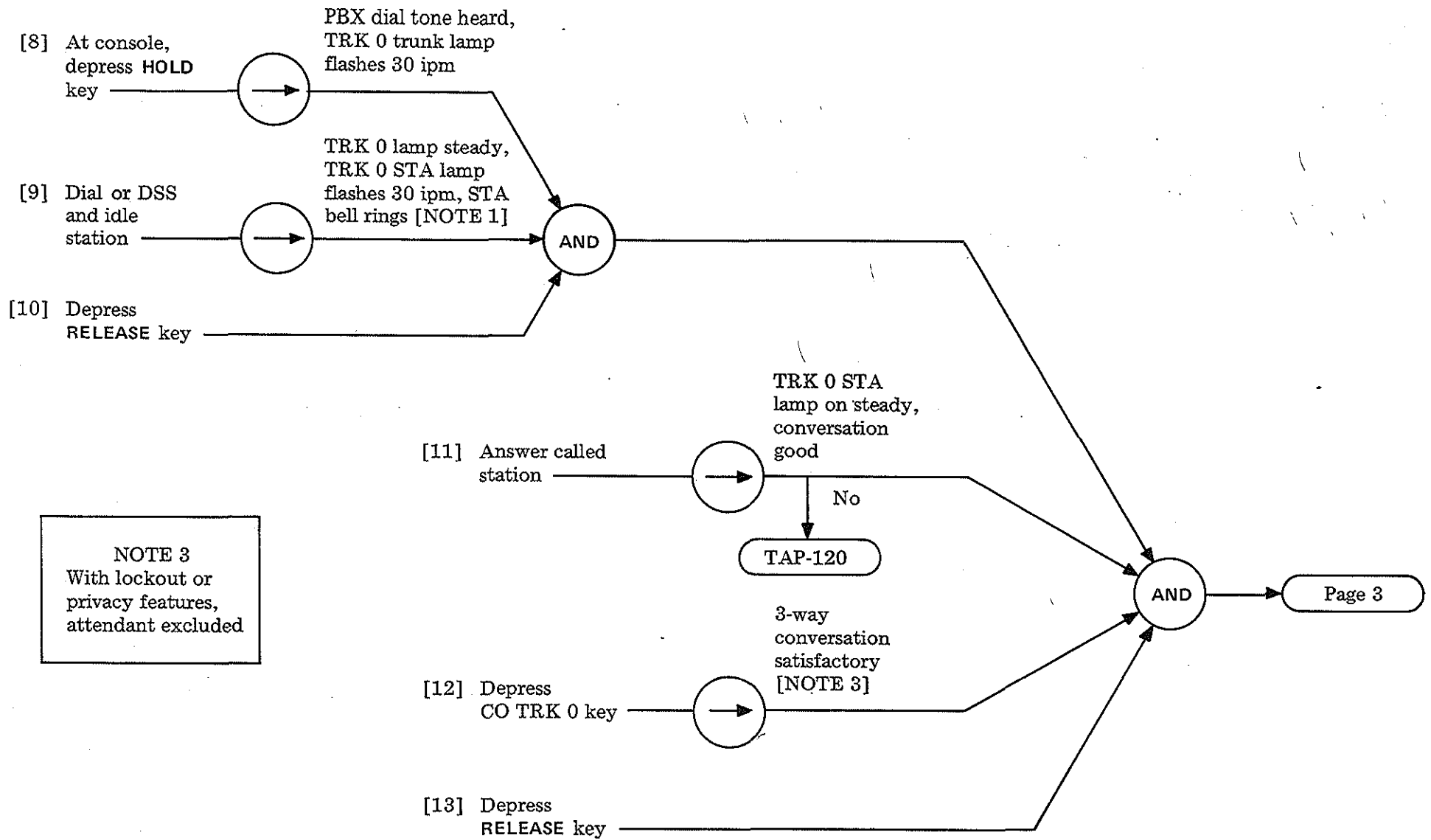
NOTE
 This test assumes that the console used for test is in normal day operational mode. DSS indications are omitted for simplicity



TEST ATTENDANT TRUNKS

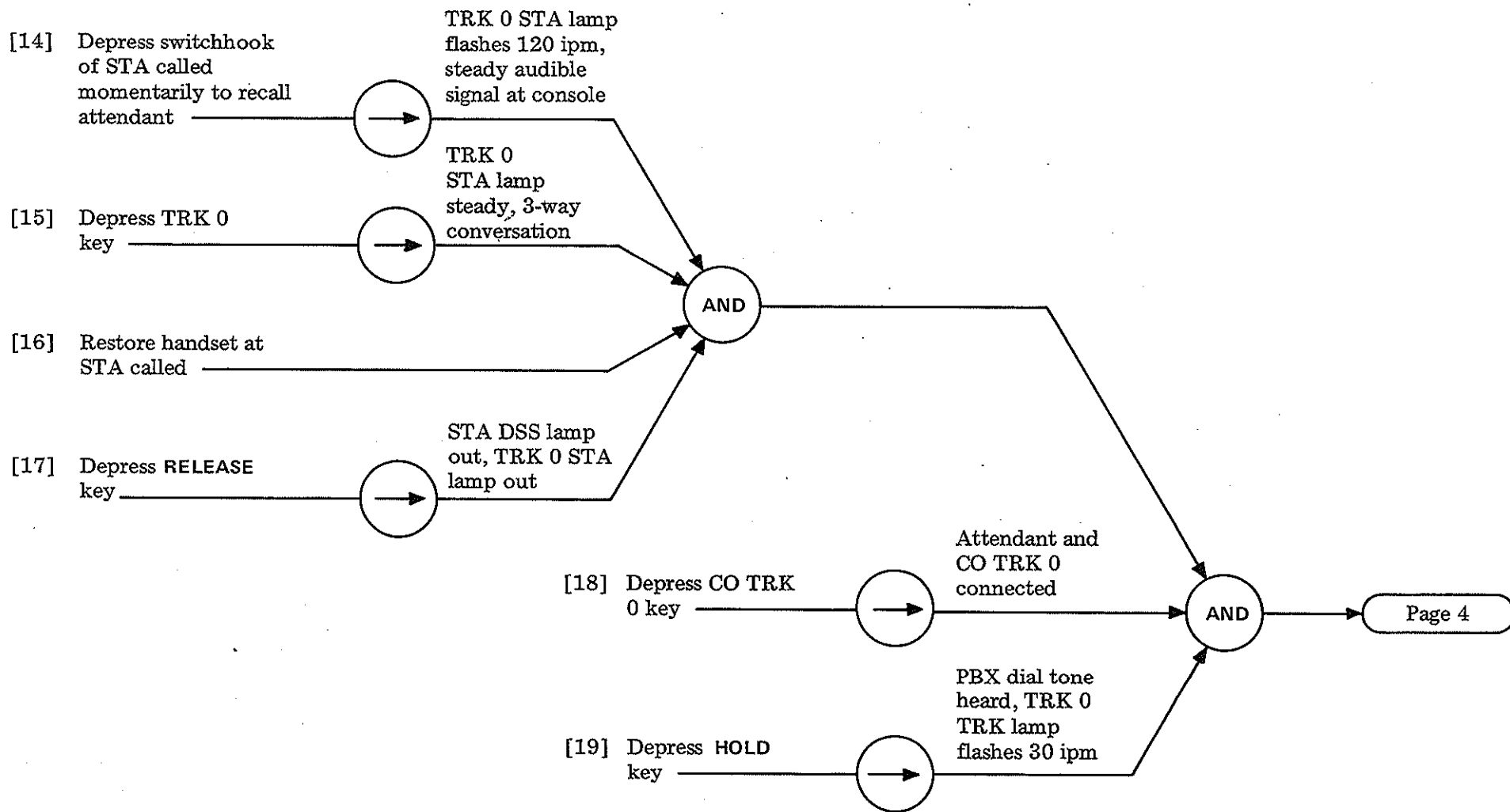
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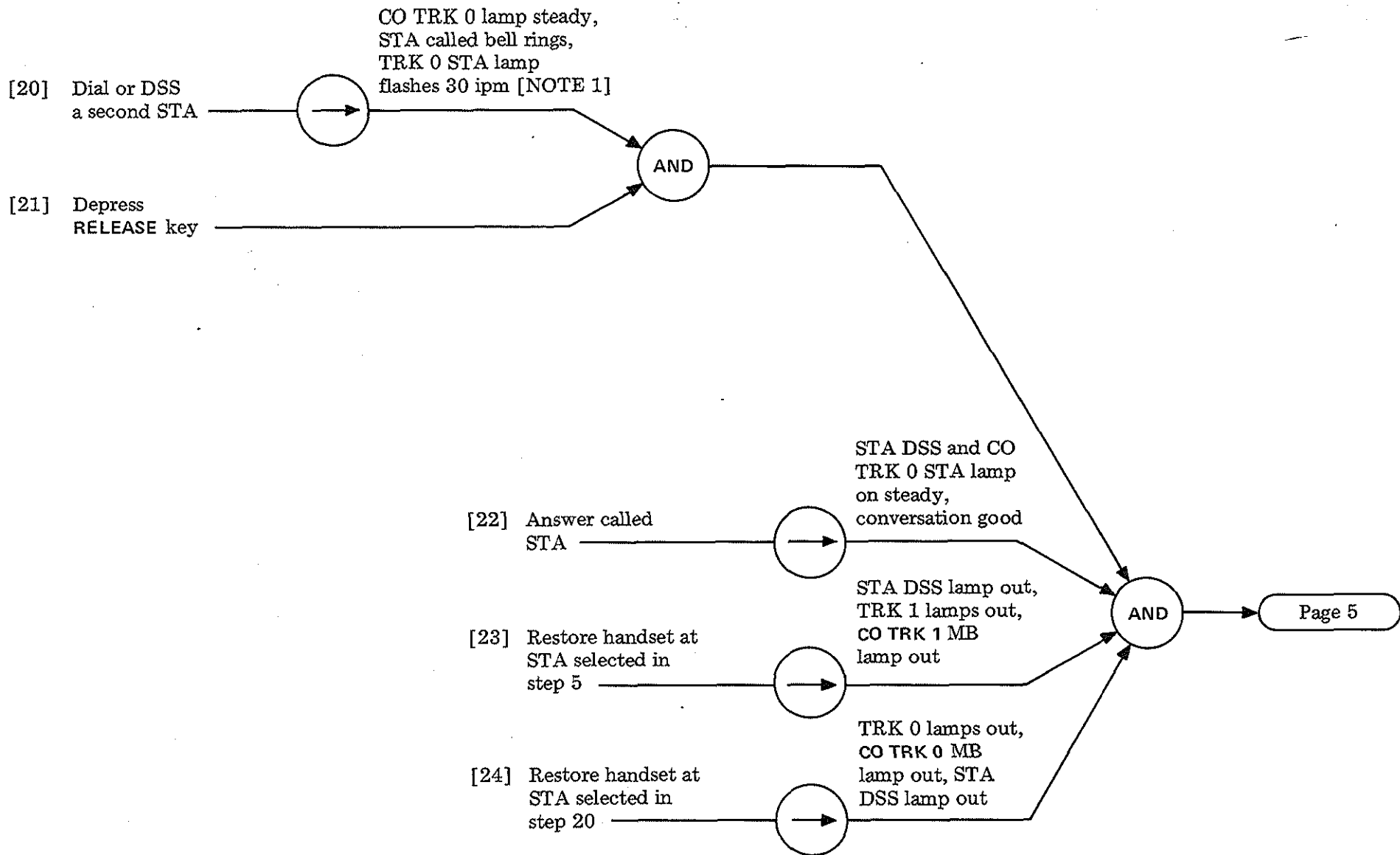


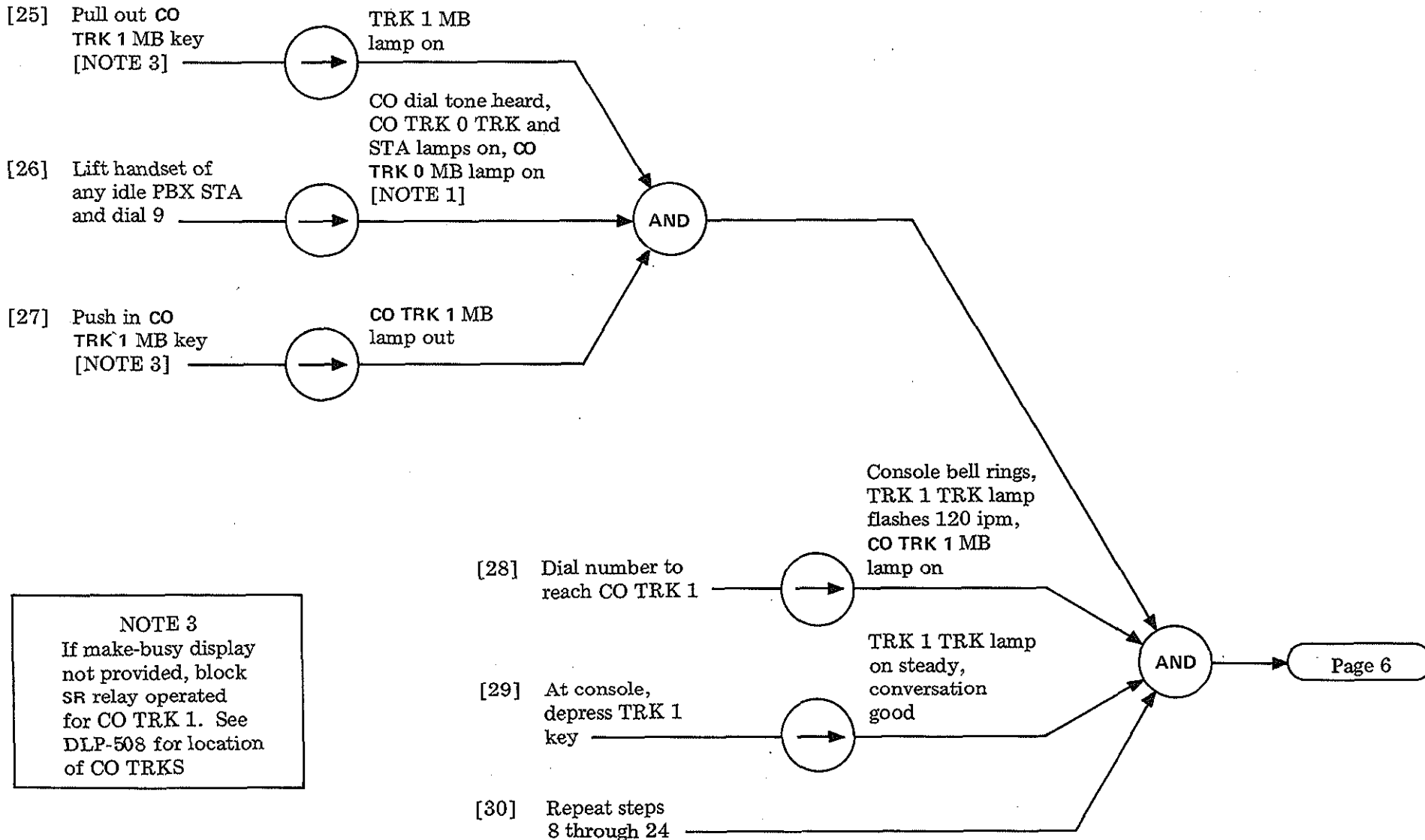


NOTE 3
With lockout or privacy features, attendant excluded

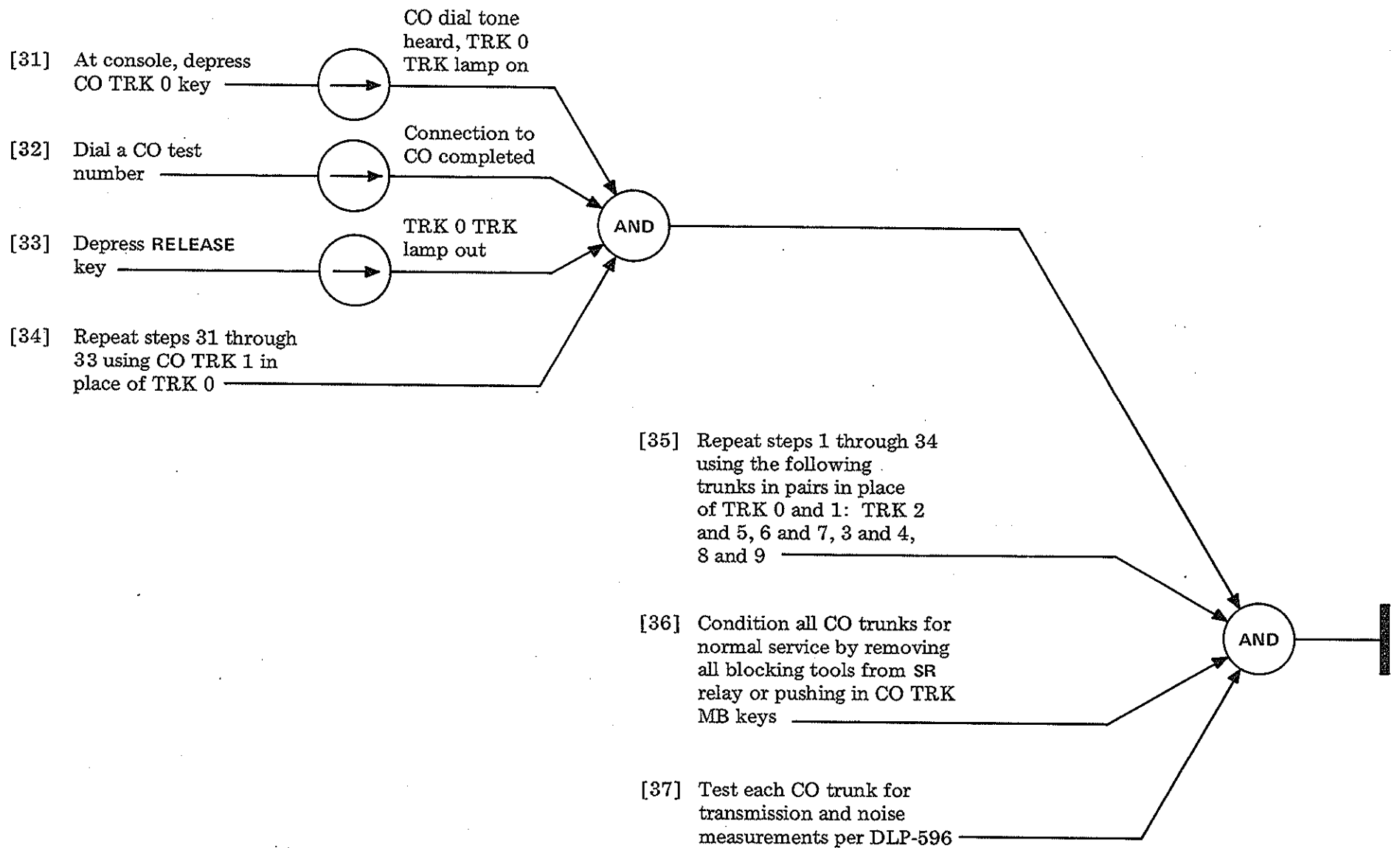
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NOTE 3
 If make-busy display not provided, block SR relay operated for CO TRK 1. See DLP-508 for location of CO TRKS



SUMMARY

This procedure provides a method of checking that a specific link, junctors, and register can be seized and operate properly during the process of placing, answering, and terminating a call from one PBX station to another. PBX stations 30 and 40 are arbitrary

selections and may be changed as dictated by actual installation. If the make-busy and busy display circuit [NOTE 1] is not provided, dummy plug 258C and proper relay blocking tools will be required to perform this test.

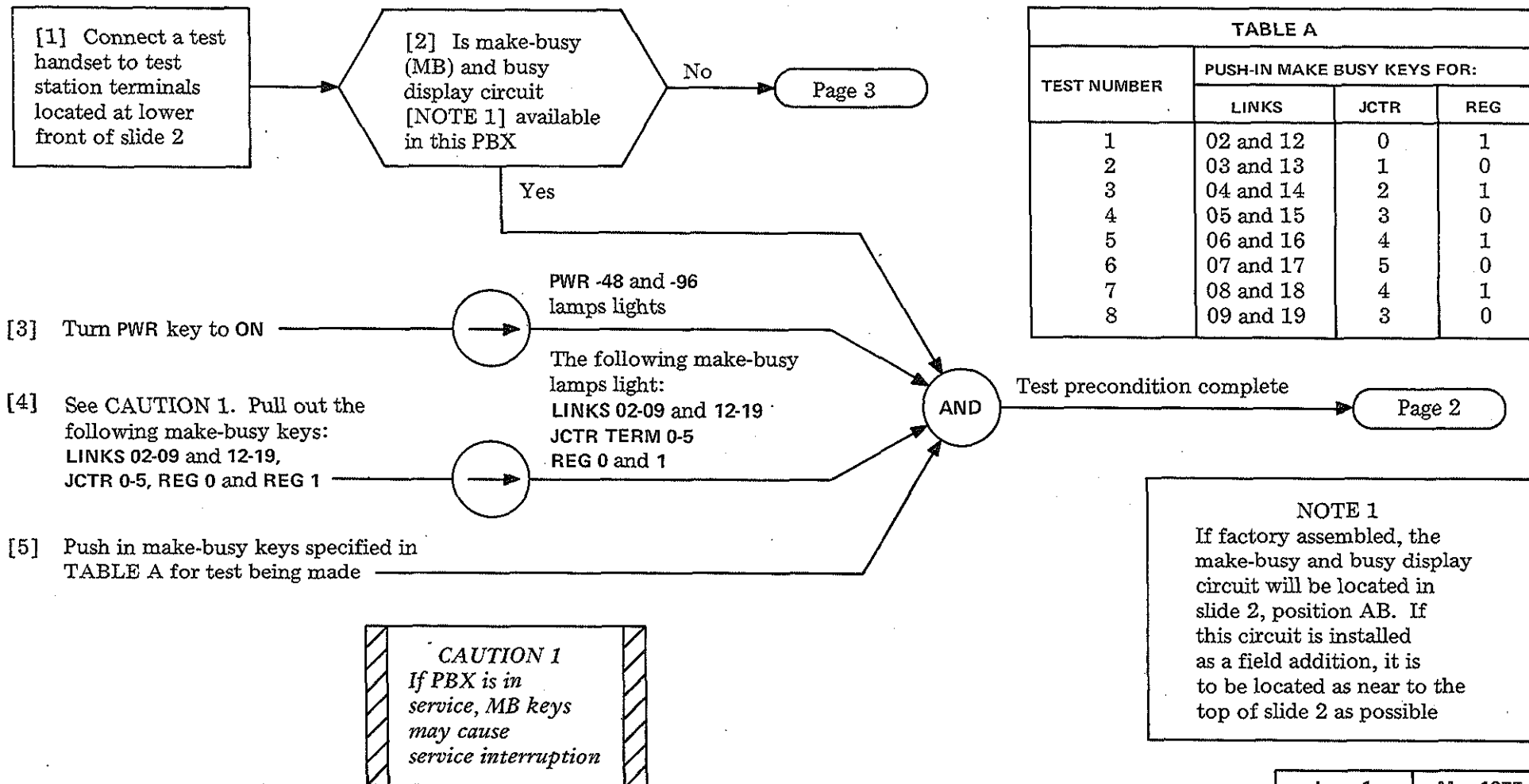
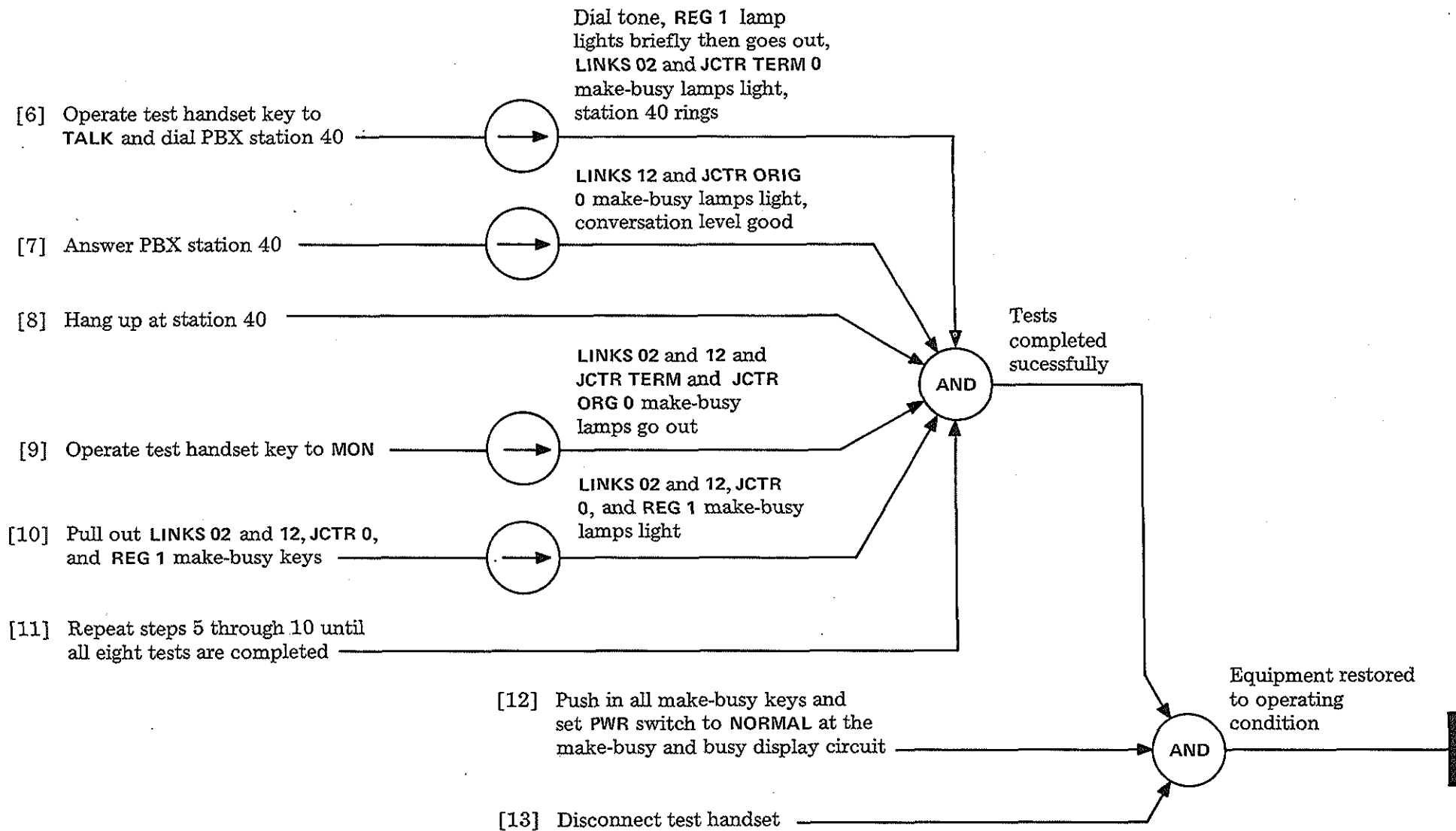


TABLE A			
TEST NUMBER	PUSH-IN MAKE BUSY KEYS FOR:		
	LINKS	JCTR	REG
1	02 and 12	0	1
2	03 and 13	1	0
3	04 and 14	2	1
4	05 and 15	3	0
5	06 and 16	4	1
6	07 and 17	5	0
7	08 and 18	4	1
8	09 and 19	3	0



TEST LINKS, JUNCTORS, AND REGISTERS FOR CALL THROUGH

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[14] See CAUTION 1. Perform the action necessary to make busy the following: [See TABLE B] LINKS 03-09 and 13-19 JCTR 1-5, REG 1

TR alarm lamp (cabinet and console) lights, RT lamp (dial pulse register) lights

[15] Operate test handset key to TALK and dial PBX station 40

JCTR 0 and LINKS 02 seized, station 40 rings

[16] Answer station 40

LINKS 12 seized, conversation level good

[17] Hang up at station 40

JCTR 0 and LINKS 02 and 12 released

[18] Operate test handset key to MON

[19] Make-busy LINKS 02 and 12, JCTR 0, and REG 1 [see TABLE B]

[20] Release the next succeeding set of LINKS and JCTR, by removing appropriate blocking tools [TABLE B]. Repeat steps 14 through 19 until all LINKS and JCTRS have been tested. Alternate between REG 0 and 1

[21] Remove blocking tools from all relays and 258C plug from register

[22] Disconnect test handset

TABLE B			
CIRCUIT	SLIDE	POSITION	ACTION TO MAKE CKT BUSY
LINK 02-09 12-19	6	P	Block nonoperated (NO) LTS 2-9 relays in marker circuit
JCTR 0, 1, 2, 5, 3, 4	3	T, U	Block operated (O) D relay in each junctor circuit
	4	Y	
REG 0, 1	6	B, E	Insert 258C plug into register TST jack

Tests completed successfully

Equipment restored to operating condition

[1] Connect CO test trunks to terminals of TRK 0 and 1 [NOTE 1]

[2] Connect 500-type telephones to STA 30 and 31 terminals at cross-connecting terminal [NOTE 2]

[3] Connect one end of WIAP test cord to AP ground terminal at cross-connecting terminal [NOTE 1]

[4] See CAUTION. At slide 1N, set power supply circuit breaker to OFF or remove PBX AC power cord from AC outlet

Power lost to PBX, CO TRK [NOTE 3] transferred to STA

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NOTES

1. If CO trunks have been assigned, no test trunks are required
2. If station equipment has already been installed, a ground has been placed through a 551A start key. The start key and station equipment may be used for tests, if accessible.

NOTE 3

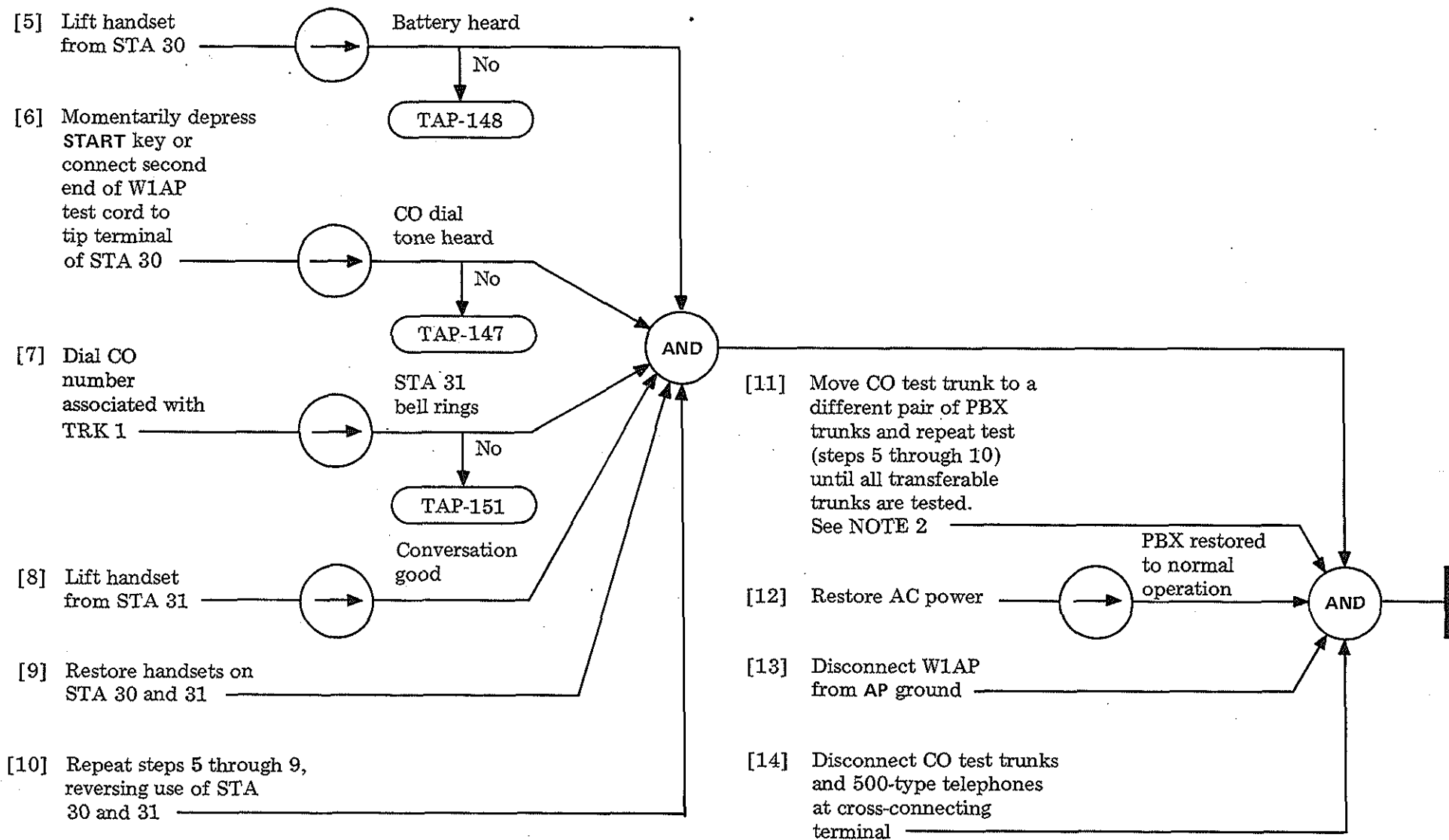
TRK	transferred to	STA
0	-----	30
1	-----	31
2	-----	32
5*	-----	40
6*	-----	41
7*	-----	42

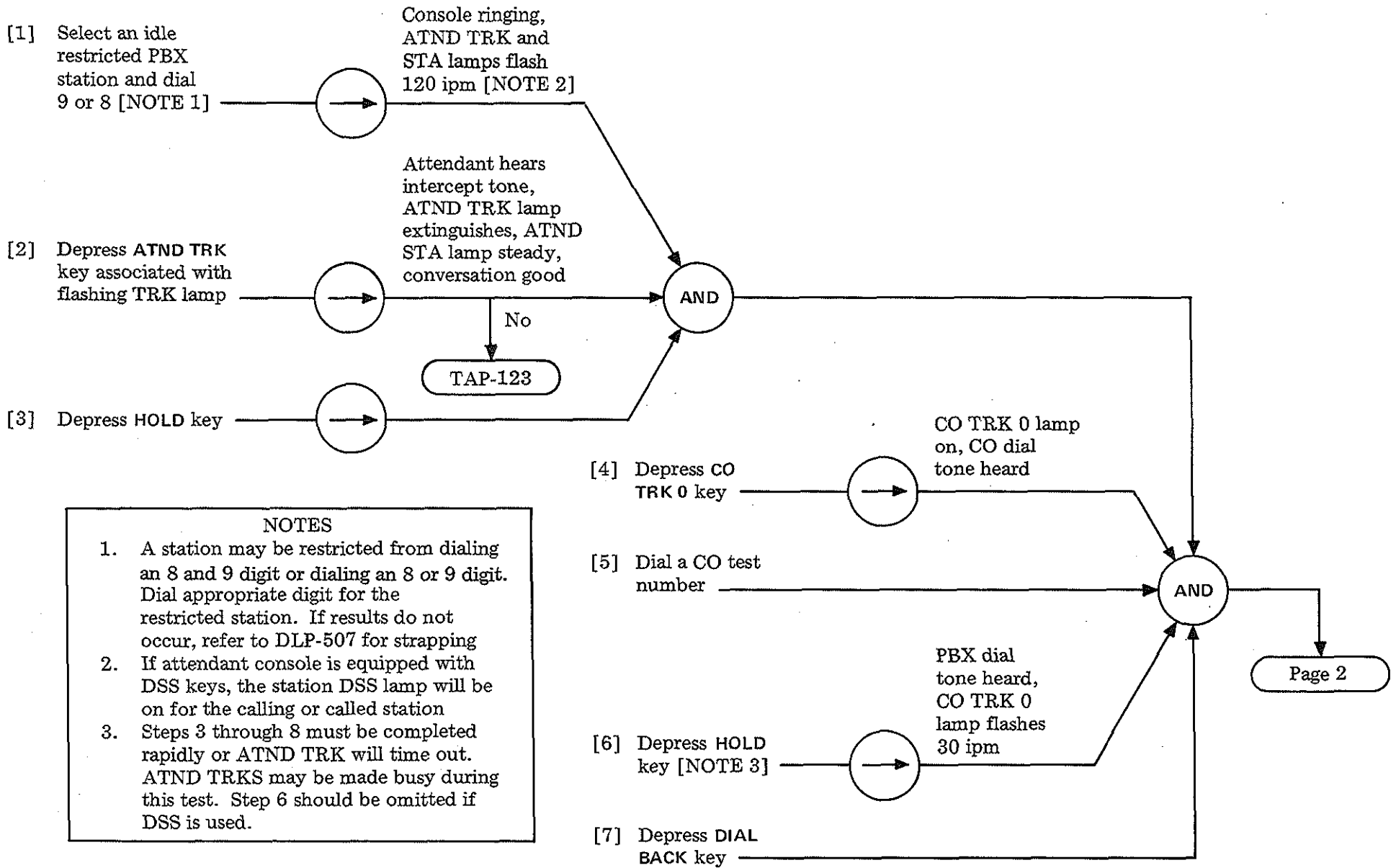
* If in slide 1, position X, relays AT1 and ATA1 are provided; then these trunks will be transferred in addition to TRK 0, 1, and 2

CAUTION
Power loss will interrupt normal service. Clear with customer before proceeding

TEST POWER FAILURE TRANSFER

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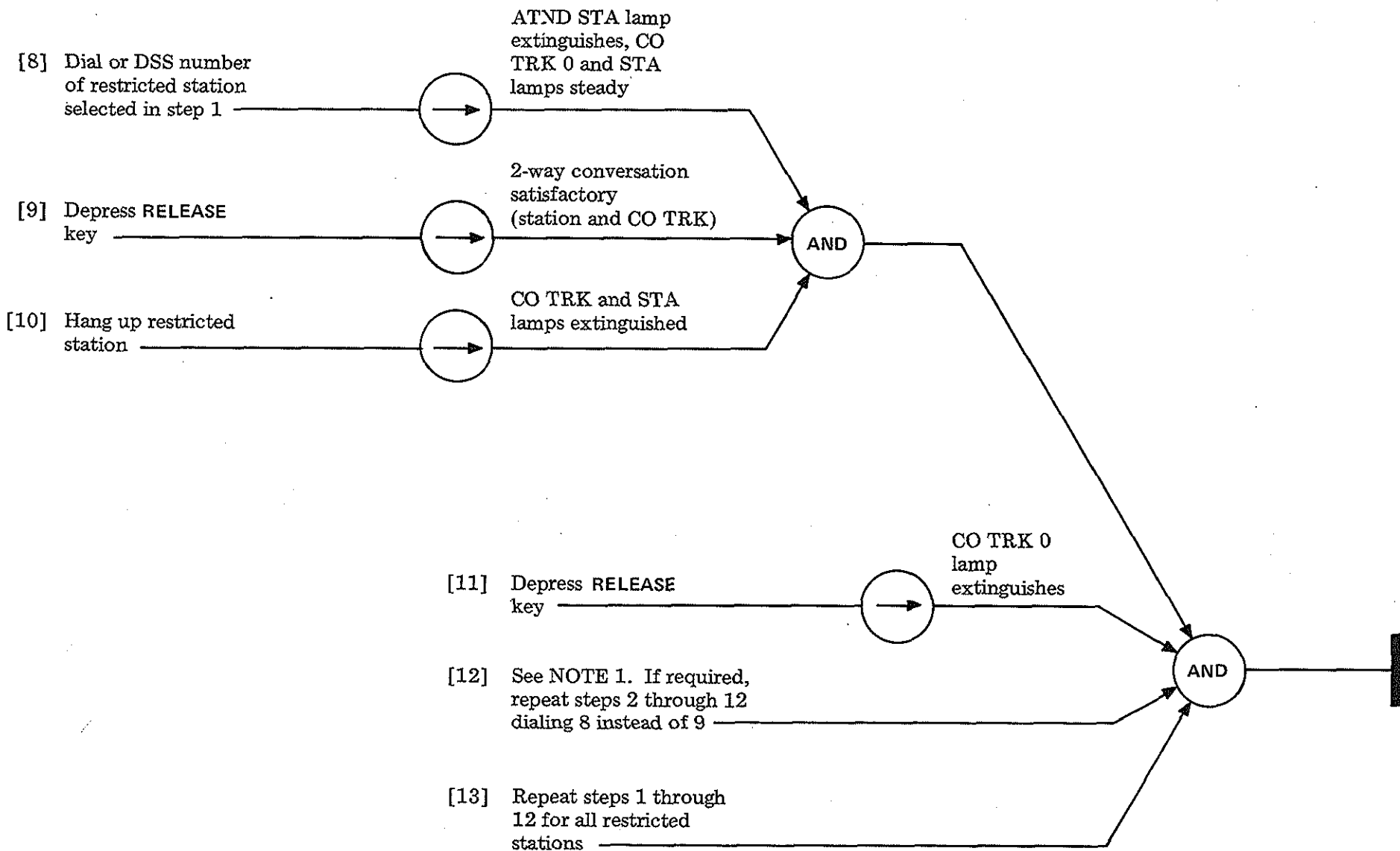


NOTES

1. A station may be restricted from dialing an 8 and 9 digit or dialing an 8 or 9 digit. Dial appropriate digit for the restricted station. If results do not occur, refer to DLP-507 for strapping
2. If attendant console is equipped with DSS keys, the station DSS lamp will be on for the calling or called station
3. Steps 3 through 8 must be completed rapidly or ATND TRK will time out. ATND TRKS may be made busy during this test. Step 6 should be omitted if DSS is used.

TEST RESTRICTED STATIONS

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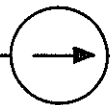


TEST RESTRICTED STATIONS

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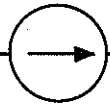
[1] Determine the PBX stations wired for toll denied class of service
[See DLP-507]

[2] Remove receiver at one of the PBX stations determined in step 1



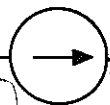
PBX dial tone received, console DSS lamp lights

[3] Dial 9



Console CO TRK 0 lamp lights, CO dial tone received at station

[4] Dial 0 (long distance operator)

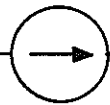


Console CO TRK 0 lamp goes out and station lamp flashes at 120 ipm, busy signal (or intercept) received at station

No

TAP-141

[5] Hang up at PBX station



Console lamps go out

[6] Repeat step 2 through 5, dialing 1 (long distance direct) in step 4

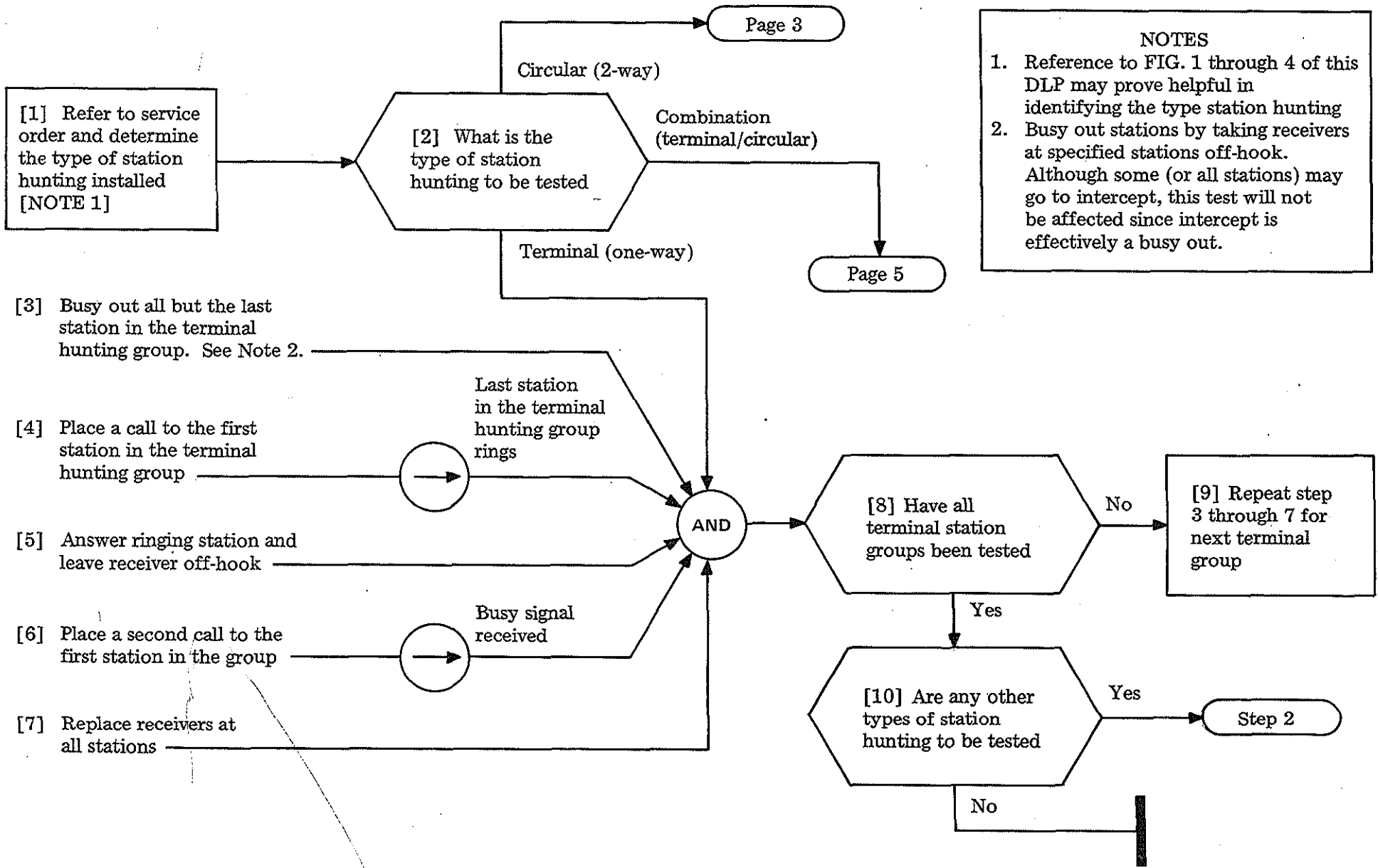
[7] Repeat steps 2 through 6 for each of the PBX stations determined in step 1

AND

Test complete

TEST TOLL DENIED STATIONS

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NOTES

- Reference to FIG. 1 through 4 of this DLP may prove helpful in identifying the type station hunting
- Busy out stations by taking receivers at specified stations off-hook. Although some (or all stations) may go to intercept, this test will not be affected since intercept is effectively a busy out.

[1] Refer to service order and determine the type of station hunting installed
[NOTE 1]

[2] What is the type of station hunting to be tested

[3] Busy out all but the last station in the terminal hunting group. See Note 2.

[4] Place a call to the first station in the terminal hunting group

[5] Answer ringing station and leave receiver off-hook

[6] Place a second call to the first station in the group

[7] Replace receivers at all stations

Last station in the terminal hunting group rings

Busy signal received

AND

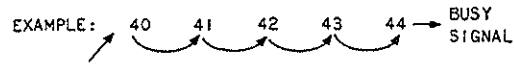
[8] Have all terminal station groups been tested

[9] Repeat step 3 through 7 for next terminal group

[10] Are any other types of station hunting to be tested

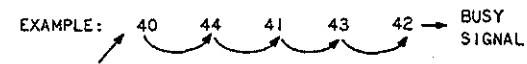
Step 2

A. CONSECUTIVE (ASCENDING NUMERICAL SEQUENCE)



A CALL TO STATION 40 HUNTS (IN ORDER) TO 41, 42, 43, AND 44. IF AN IDLE STATION IS NOT FOUND, BUSY SIGNAL IS RETURNED FROM LAST STATION HUNTED - STATION 44.

B. NONCONSECUTIVE (PREARRANGED NUMERICAL SEQUENCE)



A CALL TO STATION 40 HUNTS (IN ORDER) TO 44, 41, 43, AND 42. IF AN IDLE STATION IS NOT FOUND, BUSY SIGNAL IS RETURNED FROM THE LAST STATION HUNTED - STATION 42.

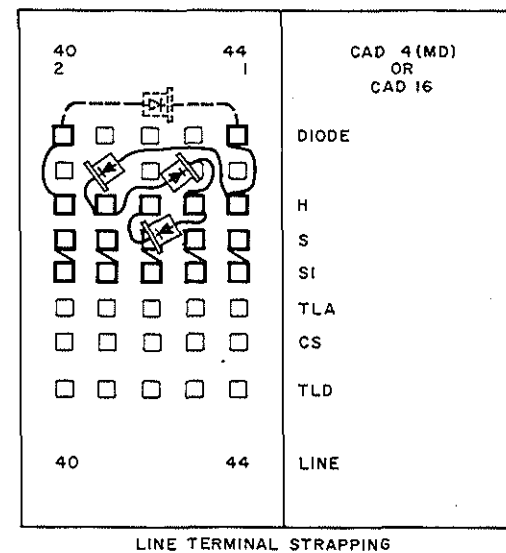
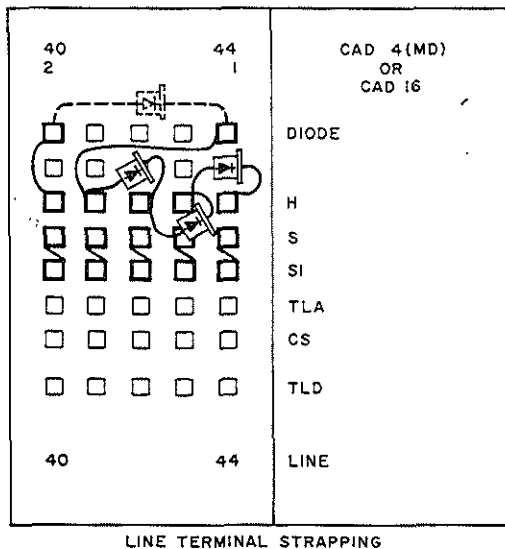


FIG. 1 - Terminal (One-Way) Station Hunting - Example

[11] Busy out all except the last (higher numbered) station in the circular station hunting group

[12] Place a call to the first (lower numbered) station in the circular station hunting group

[13] Answer ringing station and leave receiver off-hook

[14] Place a second call to the first (lower numbered) station in the group

[15] Busy out all except the first (lower numbered) station in the circular station hunting group

[16] Place a call to the last (higher numbered) station in the circular station hunting group

[17] Replace receivers at all stations

Last (higher numbered) station in the circular station hunting group rings

Busy signal received

First (lowest numbered) station in the circular station hunting group rings

AND

[19] Repeat steps 11 through 17 for next circular group

[18] Have all circular station groups been tested

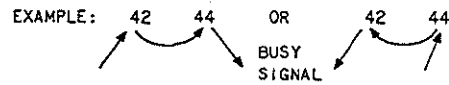
[20] Are any other types of station hunting to be tested

Step 2

TEST STATION HUNTING GROUPS

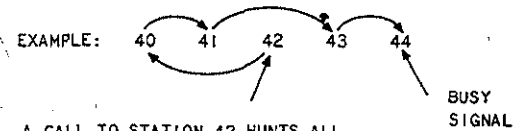
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A. 2-STATION LINE HUNT

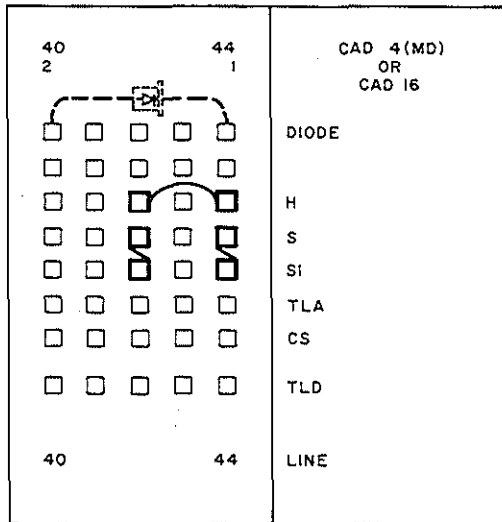


A CALL TO STATION 42 HUNTS TO STATION 44 OR A CALL TO STATION 44 HUNTS TO 42. IF NEITHER STATION IS IDLE, BUSHY SIGNAL IS RETURNED FROM THE LAST STATION HUNTED.

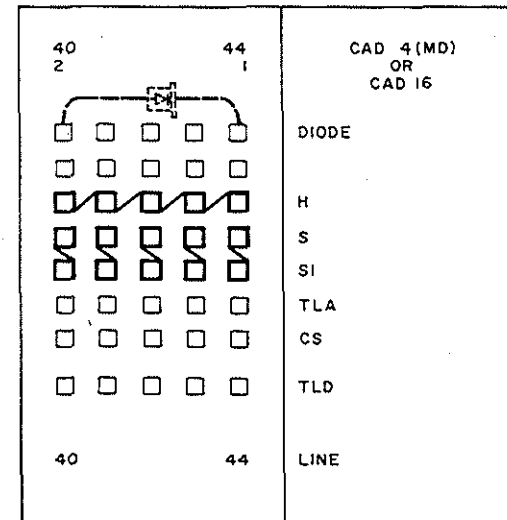
B. MULTILINE HUNT



A CALL TO STATION 42 HUNTS ALL LINES IN THE GROUP (IN A 0-9 TENS DIGIT PREFERENCE ORDER). IF AN IDLE STATION IS NOT FOUND, BUSHY SIGNAL IS RETURNED FROM THE LAST STATION HUNTED - STATION 44.

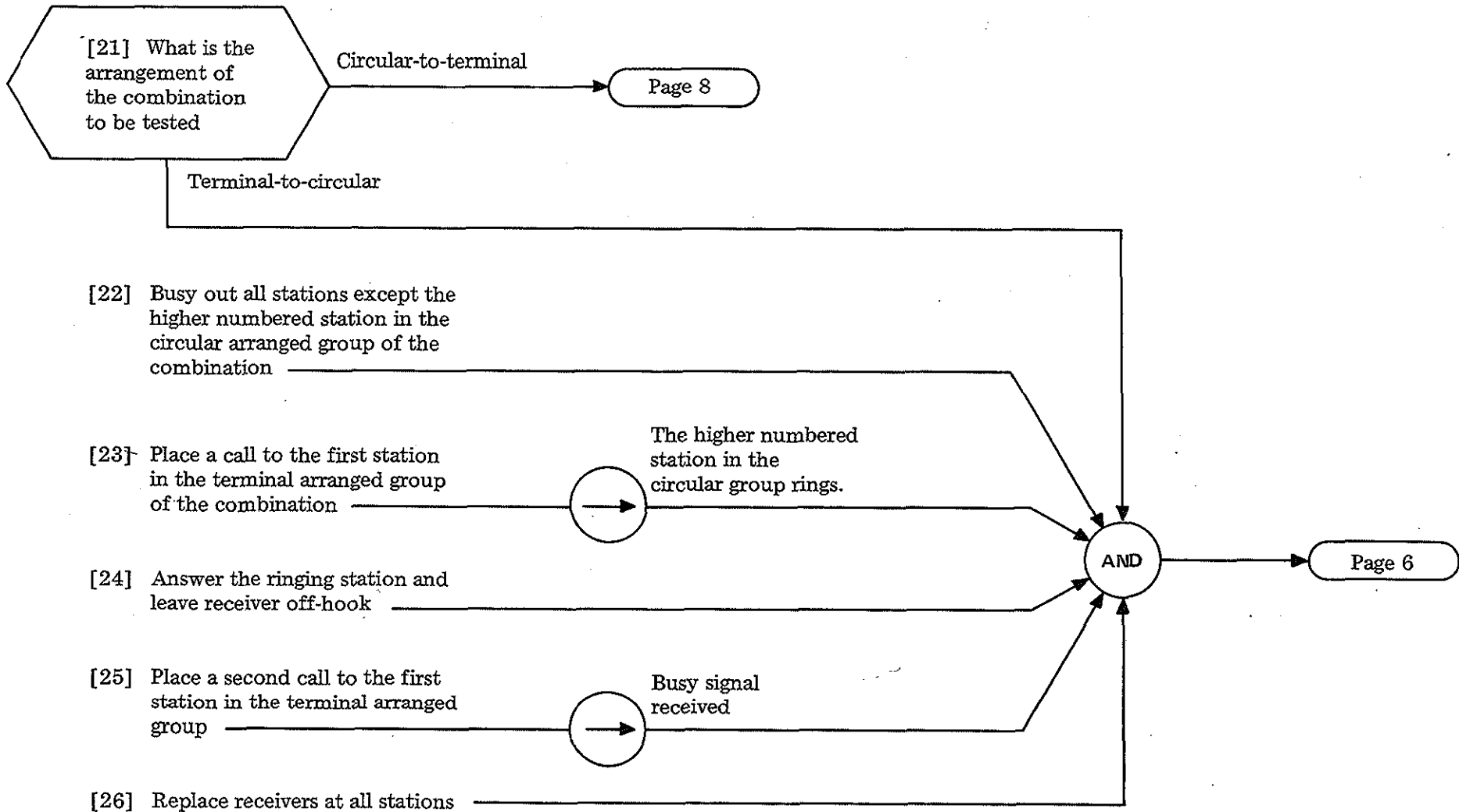


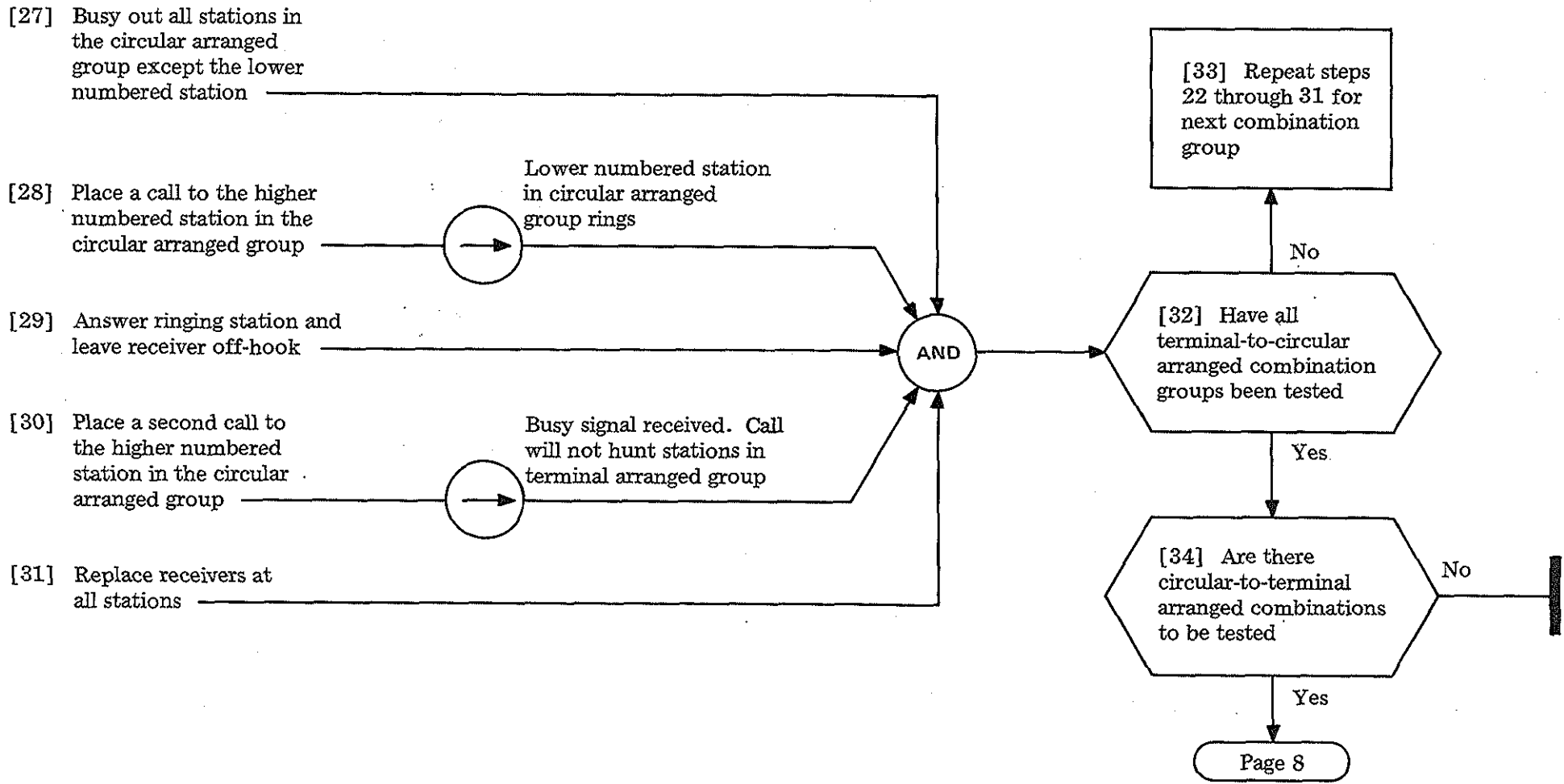
LINE TERMINAL STRAPPING



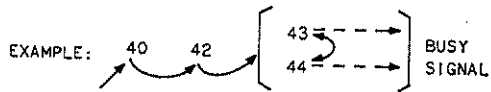
LINE TERMINAL STRAPPING

FIG. 2 - Circular (2-way) Station Hunting - Example



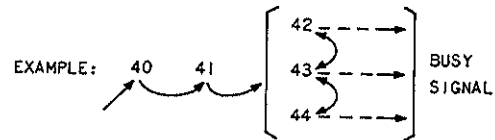


A. TERMINAL TO 2-STATION CIRCULAR

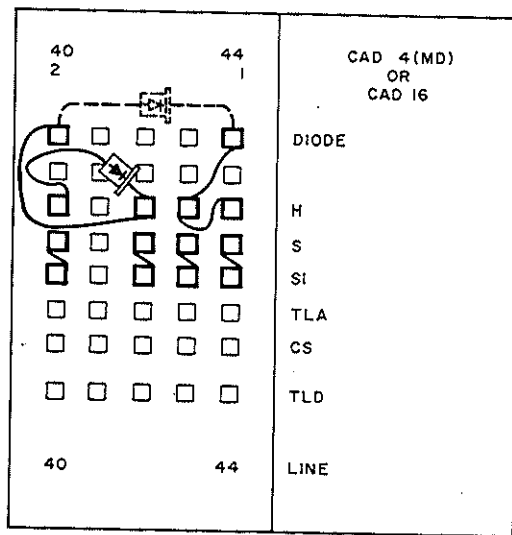


A CALL TO STATION 40, 42, OR 43 WILL HUNT IN THE ARRANGED ORDER TO 44. A CALL TO 44 WILL HUNT ONLY TO 43. BUSY SIGNAL WILL BE RETURNED FROM THE LAST STATION HUNTED - EITHER 43 OR 44.

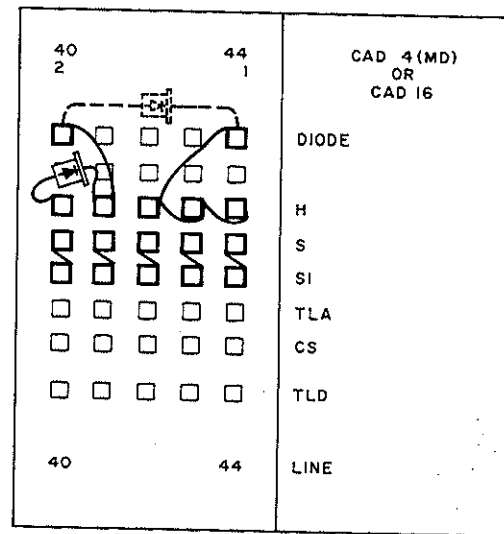
B. TERMINAL TO MULTILINE CIRCULAR



A CALL TO STATION 40, 41, OR 42 WILL HUNT IN ORDER TO 43 AND 44. A CALL TO 42, 43, OR 44 WILL HUNT THESE THREE STATIONS BUT WILL NOT HUNT TO STATIONS 40 OR 41. BUSY SIGNAL WILL BE RETURNED FROM THE LAST STATION HUNTED - EITHER 42, 43, OR 44.

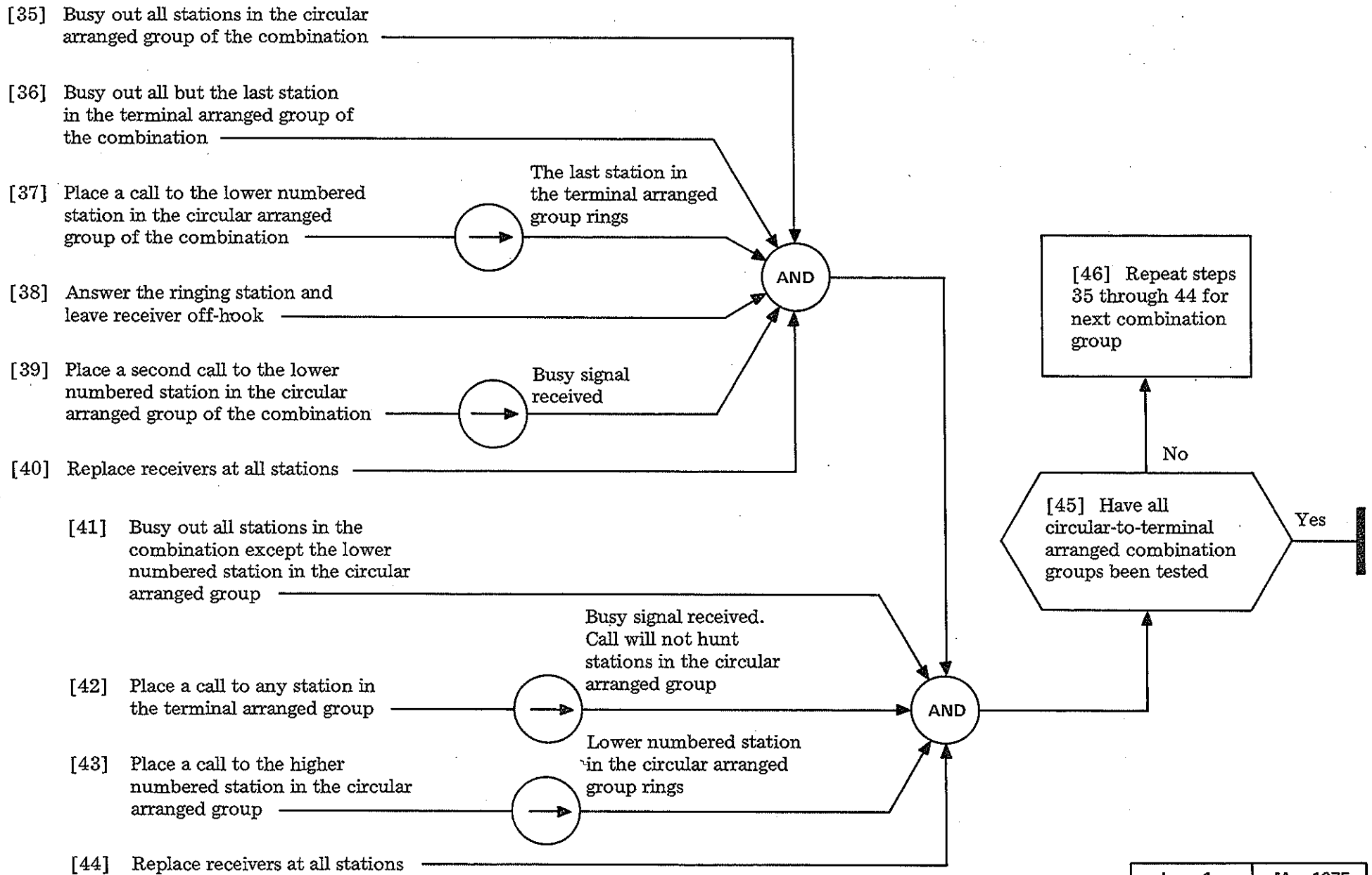


LINE TERMINAL STRAPPING



LINE TERMINAL STRAPPING

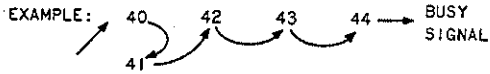
FIG. 3 - Combination Station Hunting, Terminal to Circular - Example



TEST STATION HUNTING GROUPS

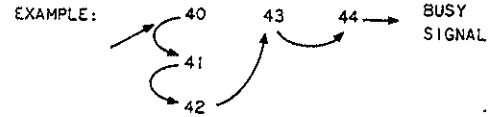
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A. 2-STATION CIRCULAR TO TERMINAL

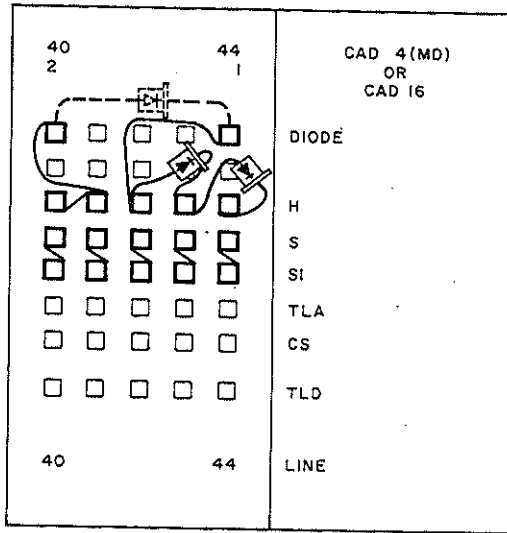


A CALL TO STATION 40 WILL HUNT TO 41, THEN TO 42, 43, AND 44. A CALL TO STATION 41 WILL HUNT FIRST TO 40, THEN TO 42, 43, AND 44. CALLS TO STATIONS 42 AND 43 WILL HUNT ONLY TO SUCCESSIVE NUMBERS. A CALL TO STATION 44 WILL NOT HUNT. BUSY SIGNAL WILL BE RETURNED FROM THE LAST STATION HUNTED - STATION 44.

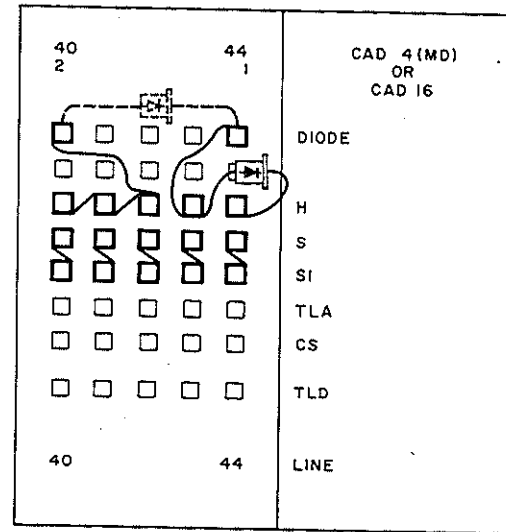
B. MULTILINE CIRCULAR TO TERMINAL



A CALL TO STATION 40, 41, OR 42 WILL FIRST HUNT THE OTHER TWO STATIONS AND THEN HUNT STATIONS 43 AND 44. A CALL TO STATION 43 WILL HUNT ONLY STATION 44 AND A CALL TO STATION 44 WILL NOT HUNT. BUSY SIGNAL IS RETURNED FROM THE LAST STATION HUNTED - STATION 44.



LINE TERMINAL STRAPPING



LINE TERMINAL STRAPPING

FIG. 4 - Combination Station Hunting - Circular to Terminal - Example

SUMMARY

Fixed nite service connects CO trunks directly to designated PBX stations on a one-to-one basis. Any call in process on a PBX station not designated for nite service will be terminated when the NITE service key is operated.

NOTE

Fixed nite service normally connects CO trunks 0, 1, 2, and 5 to PBX stations 30, 31, 32, and 33, respectively. These CO trunks are ground start trunks

[1] Operate console NITE key counterclockwise

[2] Remove attendant handset cord from console jacks

[3] Determine seven-digit CO trunk number associated with each nite station

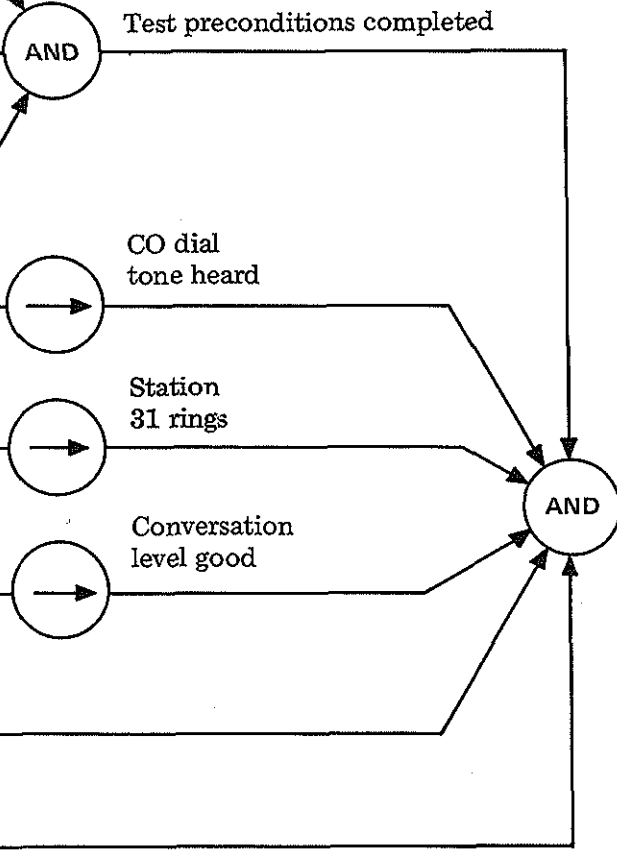
[4] Lift receiver and momentarily depress ground start pushbutton at station 30

[5] Dial seven-digit CO trunk number associated with station 31 [See NOTE]

[6] Answer station 31.

[7] Hang up station 30 and 31 and reverse the call process of steps 4 through 6.

[8] Repeat steps 4 through 7 using PBX stations 32 and 33

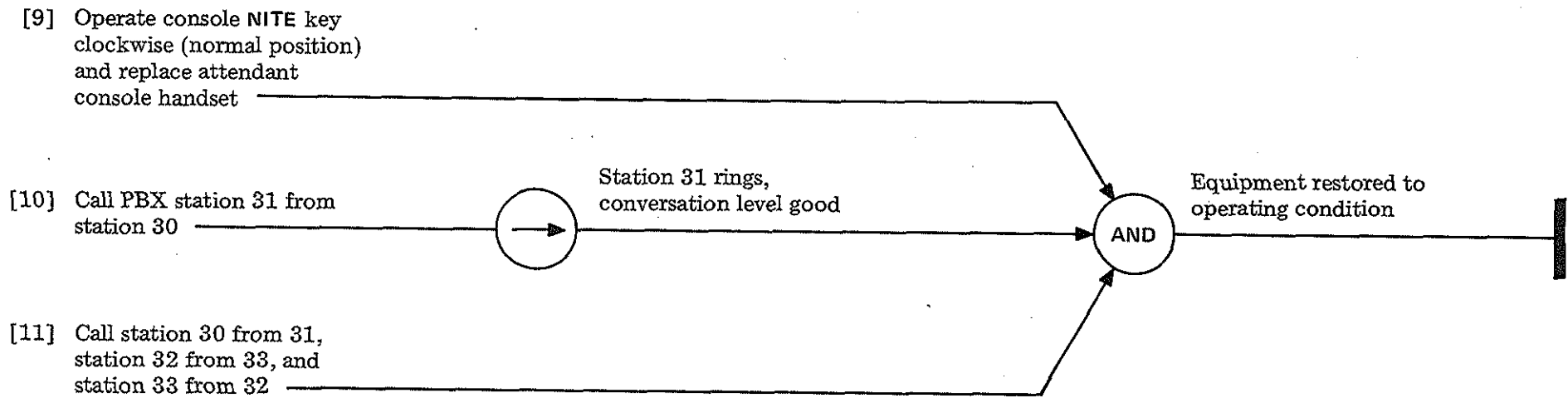


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TEST FIXED NITE SERVICE

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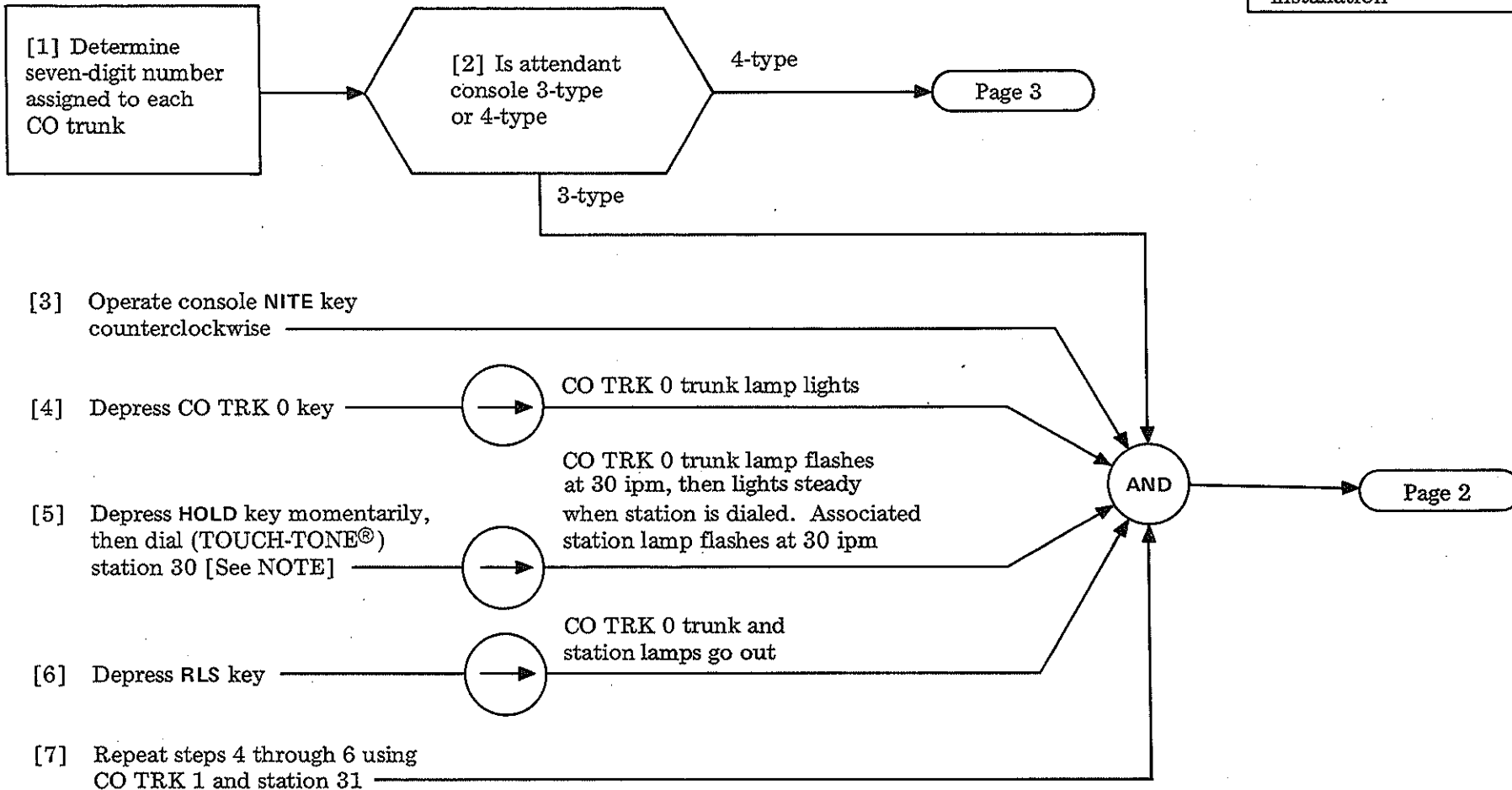


SUMMARY

Flexible nite service allows the attendant to establish connections between any station and any CO trunk. Calls in process and camped-on calls are not disturbed by this operation. The station to CO trunk connection will be made automatically upon completion of the current or camped-on call.

NOTE

Stations 30 and 31 are used in this procedure for illustration purposes. In actual practice, the stations used will be dictated by the equipment installation



TEST FLEXIBLE NITE SERVICE

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[8] Disconnect attendant console handset

[9] Place a call from station 31 to station 30 by dialing seven-digit number assigned to CO TRK 0

Station 30 rings,
conversation
level good

[10] Place a call from station 30 to station 31 by dialing seven-digit number assigned to CO TRK 1

Station 31 rings,
conversation
level good

[11] Replace console handset and operate NITE key clockwise (normal position)

[12] Call station 31 from station 30 by dialing station number (31), then place call in reverse (station 30 from station 31)

Station ringing
and call completion
normal. NITE
connections cancelled

[13] Repeat steps 3 through 12 for remaining CO TRKS. Continue using stations 30 and 31

Flexible nite service tests OK (3-type console)

AND

No

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[14] Operate console NITE key
counterclockwise

[15] Depress CO TRK 0 key
and DSS 30 key

[16] Depress RLS key

[17] Repeat steps 14 through 16 using
CO TRK 1 and station 31

[18] Perform steps 8 through 12

[19] Repeat steps 14 through 18 for
remaining CO TRKS. Continue
to use stations 30 and 31
(DSS 30 and DSS 31)

CO TRK 0 trunk lamp lights,
CO TRK 0 station lamp flashes
at 30 ipm, station 30 rings,
and DSS 30 lamp lights

Console lamps go out

Flexible nite
service checks OK
(4-type console)

AND

No

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[1] Unpack and mount conference equipment J58829AE in slide 2, positions X, Y, Z, and AA

[2] Unpack and plug conference bridge unit J99294AA-1 into connector CA (slide 2, position X) on front of conference unit

[3] Connect P1 connector (slide 2, position X) to C1 connector on wiring side (rear) of conference unit

AND

[4] Is PBX equipment J58829A, Lists 52 through 55, and later

No

[5] Install and connect J58829A, L31 interslide cable per FIG. 1

Yes

[6] Wire leads from local cable form to apparatus or terminal strips on tie trunk adapter unit per TABLE A

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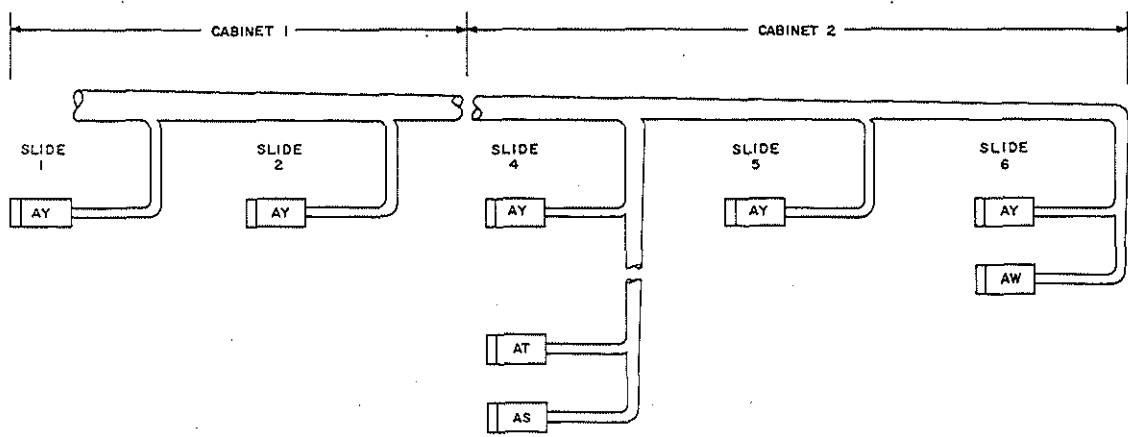


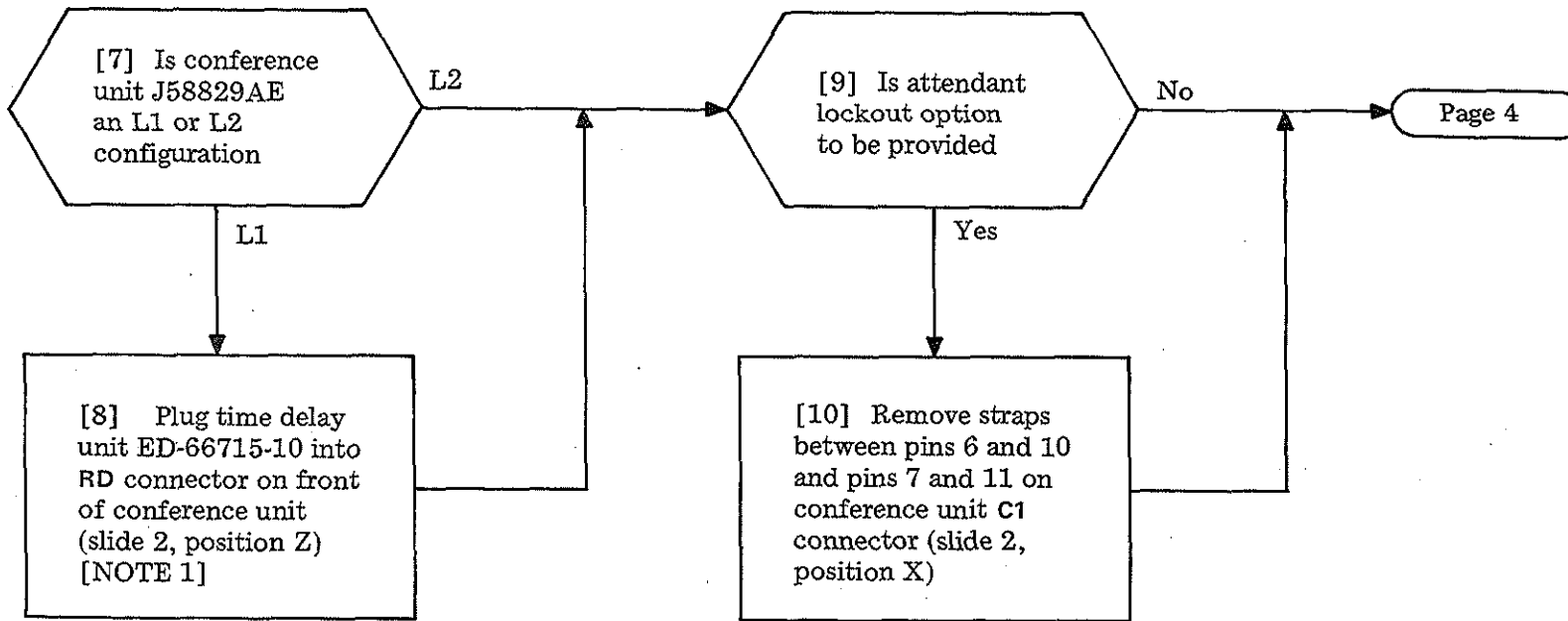
FIG. 1

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TABLE A										
PLUG P1 SLIDE 2 POS X	LEAD COLOR	LEAD DESIG	APPARATUS IN TIE TRK ADAPTER ON SLIDE 2						LEAD COLOR	CONN AY2 (IN CROWN)
			MISC TS POS P	TS-A POS P	TRK TS-B POS P	TS-D POS Q	TRK B 8 REL POS L	OT REL POS P		
3 ←	BR	R1	○ 56							
4 ←	R-G	BAT		BAT-T85						W
16 ←	R-BL-W	GRD		GRD-T85						R-S
8 ←	S-W	SL-(B)	○ 23	Refer to TABLE D for cross wiring						
9 ←	R	TL-(B)	○ 33							
10 ←	S	ACA-(B)	○ 13							
11 ←	R-W	ACA-(A)	○ 43							
12 ←	BR-W	SL-(A)	○ 42							
13 ←	BR	TL-(A)	○ 32							
14 ←	G-W	R-(A)	○ 22							
15 ←	G	T-(A)	○ 12							
17 ←	BR-W	RG	○ 58							
25 ←	BL	D8								
26 ←	S-W	CO					HM-2 ○ T89	○ 10M		G
							IT-1 ○ T89			BR
28 ←	W	OT1							2L ○ (OT-25)	
29 ←	S	OT2							2L ○ (OT-26)	
30 ←	G	OT3							2L ○ (OT-27)	
31 ←	BR	OT4							2L ○ (OT-28)	
32 ←	O	OT5							2L ○ (OT-29)	
33 ←	G	T1-1			T1-1	Ports				
34 ←	G-W	R1-1			R1-1	○ 1				
35 ←	R-O	S1			S1	○ T85				
36 ←	BK	T1-1			T1-1	○ 2				
37 ←	BK-W	R1-1			R1-1	○ T86				
38 ←	R-BR-W	S1			S1	○				
39 ←	R-G	T1-1			T1-1	○ 3				
40 ←	R-S	R1-1			R1-1	○ T87				
41 ←	R-G-W	S1			S1	○				
42 ←	BL	T1-1			T1-1	○ 4				
43 ←	BL-W	R1-1			R1-1	○ T88				
44 ←	R-O-W	S1			S1	○				
45 ←	O	T1-1			T1-1	○ 5				
46 ←	O-W	R1-1			R1-1	○ T89				
47 ←	R-BL-W	S1			S1	○				

INSTALL AND TEST ATTENDANT-CONTROLLED DIAL CONFERENCE EQUIPMENT (SD-66908)

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NOTE 1
 For attendant release of a conference option, plug-in unit ED-66715-10 is required with L1 equipment configuration

[11] Refer to NOTE 2 and remove straps on MISC TS of dial pulse registers 0 and 1 (slide 6, positions B and E)

[12] Wire straps 13 to 14, 24 to 25, and 15 to 25 on MISC TS of dial pulse registers 0 and 1 (slide 6, positions B and E)

Code 8 access installed

[13] Remove straps T to T1-1 and R to R1-1 on TS-B (slide 2, position P) for each universal line circuit (85 thru 89) used for conference circuit

[14] Remove straps CS to TLA for universal line circuits 25 thru 29 on LINE TS (slide 2, position M)

[15] Wire strap CS to COT for line circuit 89 on TS-A (slide 2, position P)

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NOTE 2
Straps to be removed may be wired in either of the following arrangements:

In either case, both straps are to be removed

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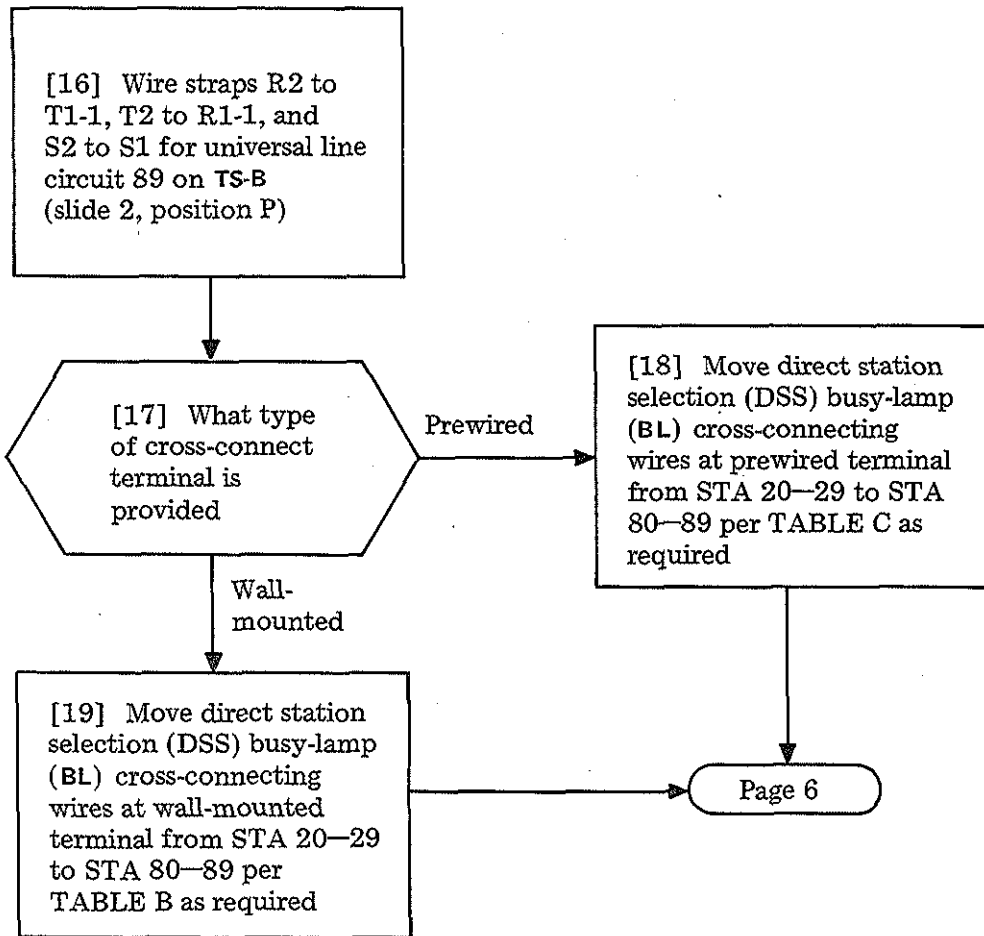


TABLE B							
WALL TERMINAL							
FROM				TO			
G-W BINDER BLOCK A10	COLOR	LEAD	TERM	BR-W BINDER BLOCK B10	COLOR	LEAD	TERM
	Y-BL	BL21	T16		Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
S-Y	BL28	R20	S-V	BL88	R25		

TABLE C							
PREWIRED TERMINAL							
FROM				TO			
G-W BINDER BLOCK B5	COLOR	LEAD	TERM	BR-W BINDER BLOCK B6	COLOR	LEAD	TERM
	Y-BL	BL21	T16		V-BL	BL81	T21
	BL-Y	BL20	R16		BL-V	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
S-Y	BL28	R20	S-V	BL88	R25		

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[20] Wire cross-connecting leads for console per TABLE D [NOTE 3]

[21] Refer to FIG. 2 and remove the P-10E837 locking screw key 15 (ST/RC) [NOTE 4]

[22] Type the designation strip CONF beside key 14 and ST/RC beside key 15

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NOTE 3
 This cross-connecting wiring is the suggested arrangement for assigning console key 14 for control key (CONF) and console key 15 for signal key (ST/RC). However, any available adjacent pair may be used provided they are in the same key strip or the (ST/RC) signal key is in the key strip to the right of the strip containing the (CONF) key

NOTE 4
 This converts the pickup key to nonlocking type or signal key (ST/RC) operation

TABLE D												
PREWIRED TERMINAL								WALL-MOUNTED TERMINAL				
CONSOLE CABLE*						CROSS-CONNECT TO		CONSOLE CABLE*		CROSS-CONNECT TO		
BINDER	BL-W	BLOCK B3	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.†	CONN. BLOCK	TERM. NO.	BLOCK A9	CONN. BLOCK TERM. NO.	CONN. BLOCK	TERM. NO.	
						T14	BK-BR		TL14	C1	T14	
			R14	BR-BK	ACA14	↑	R14		R14	↑	R6	
			T15	BK-S	TL15		T15		T15		T6	
			R15	S-BK	ACA15		R15		R15		T5	
			T20	Y-S	T14	↓	T20		T20		R3	
			R20	S-Y	R14		C1		R20		T3	
O-W	BLOCK B4		R4	BR-W	SL15	C2	R4	BLOCK A10	R4		R5	
			T3	W-G	SL14	C2	T3		T3	A4	R4	

* Type 3 Console — Cable A50B
 Type 4 Console — Cable A100C
 † Key 14 (CONF)
 Key 15 (ST/RC)

[23] Test conference
circuit per DLP-531
[NOTE 5]



NOTE 5
On a system installation,
testing may be deferred
until all options and
features are installed

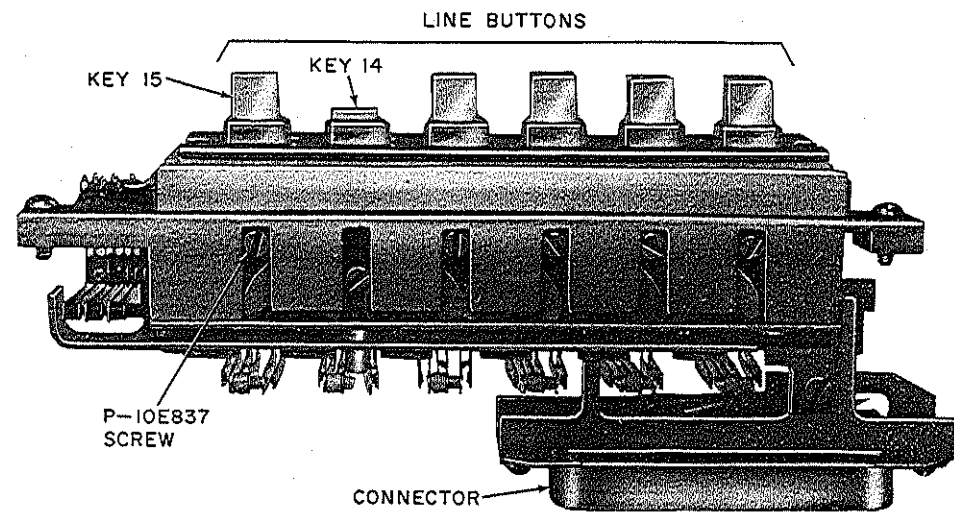
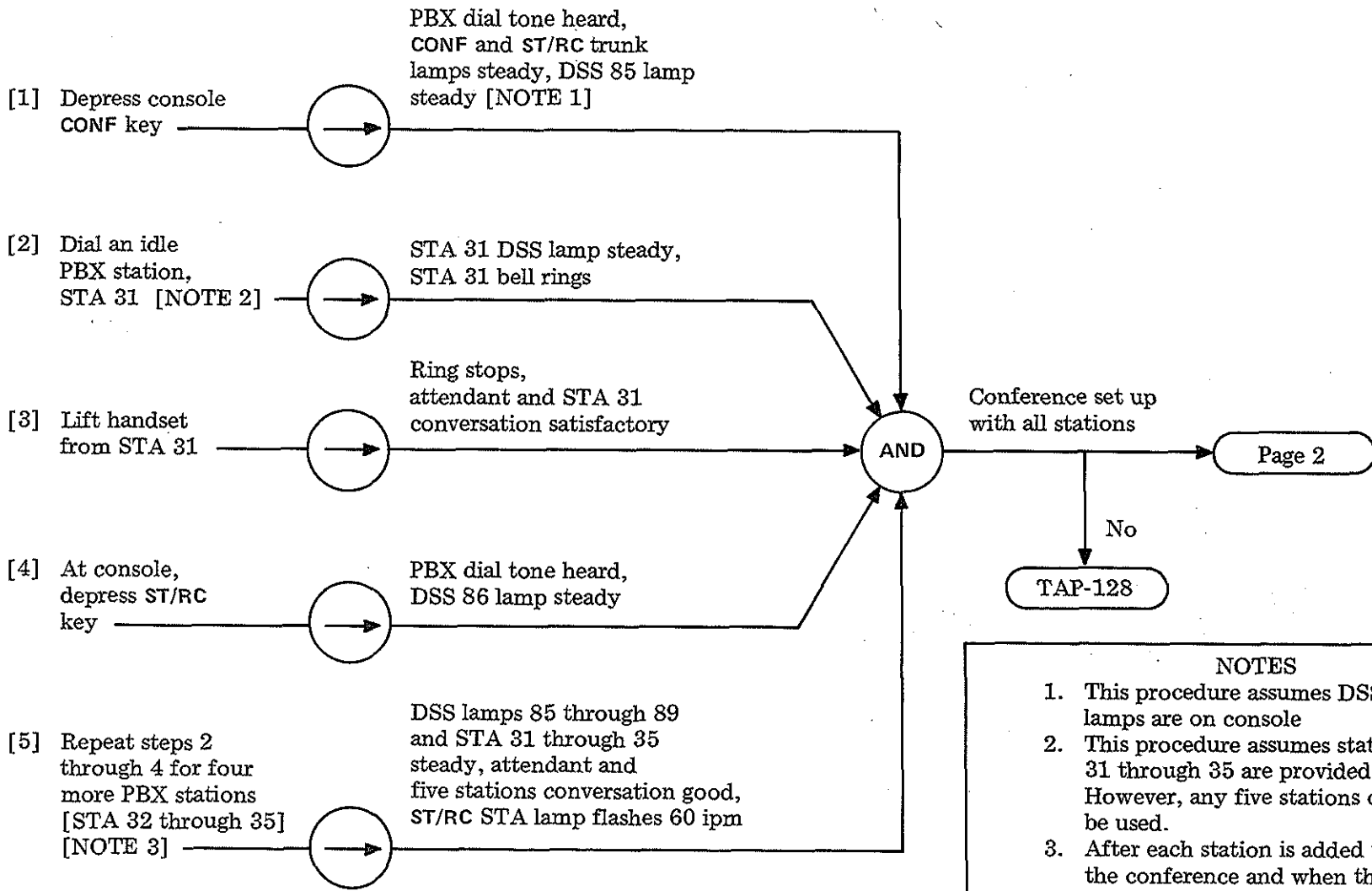
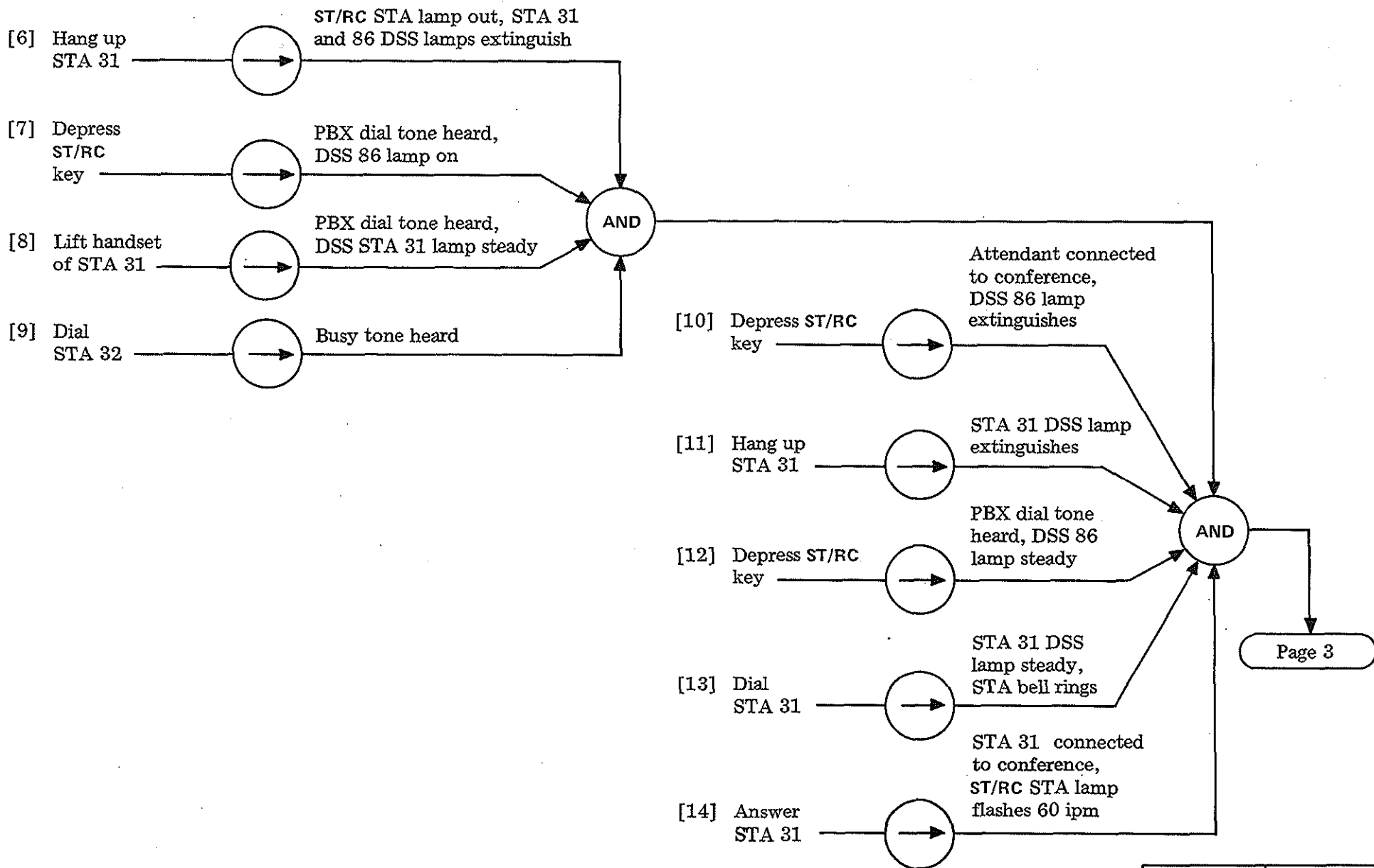


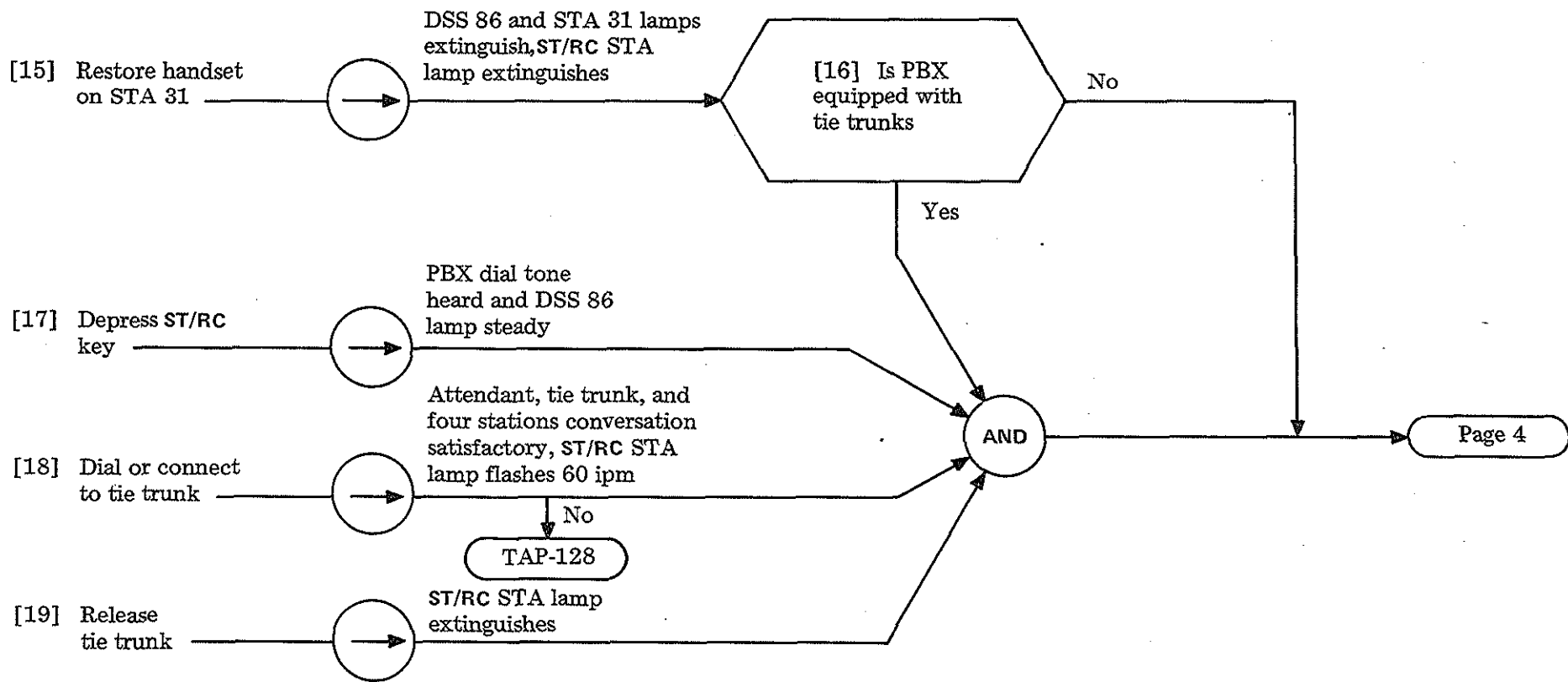
FIG. 2 - Typical 598-Type Key Strip



- NOTES**
1. This procedure assumes DSS lamps are on console
 2. This procedure assumes stations 31 through 35 are provided. However, any five stations can be used.
 3. After each station is added to the conference and when the ST/RC key is depressed, DSS lamps 85 through 89 will light one lamp each time the ST/RC key is depressed.

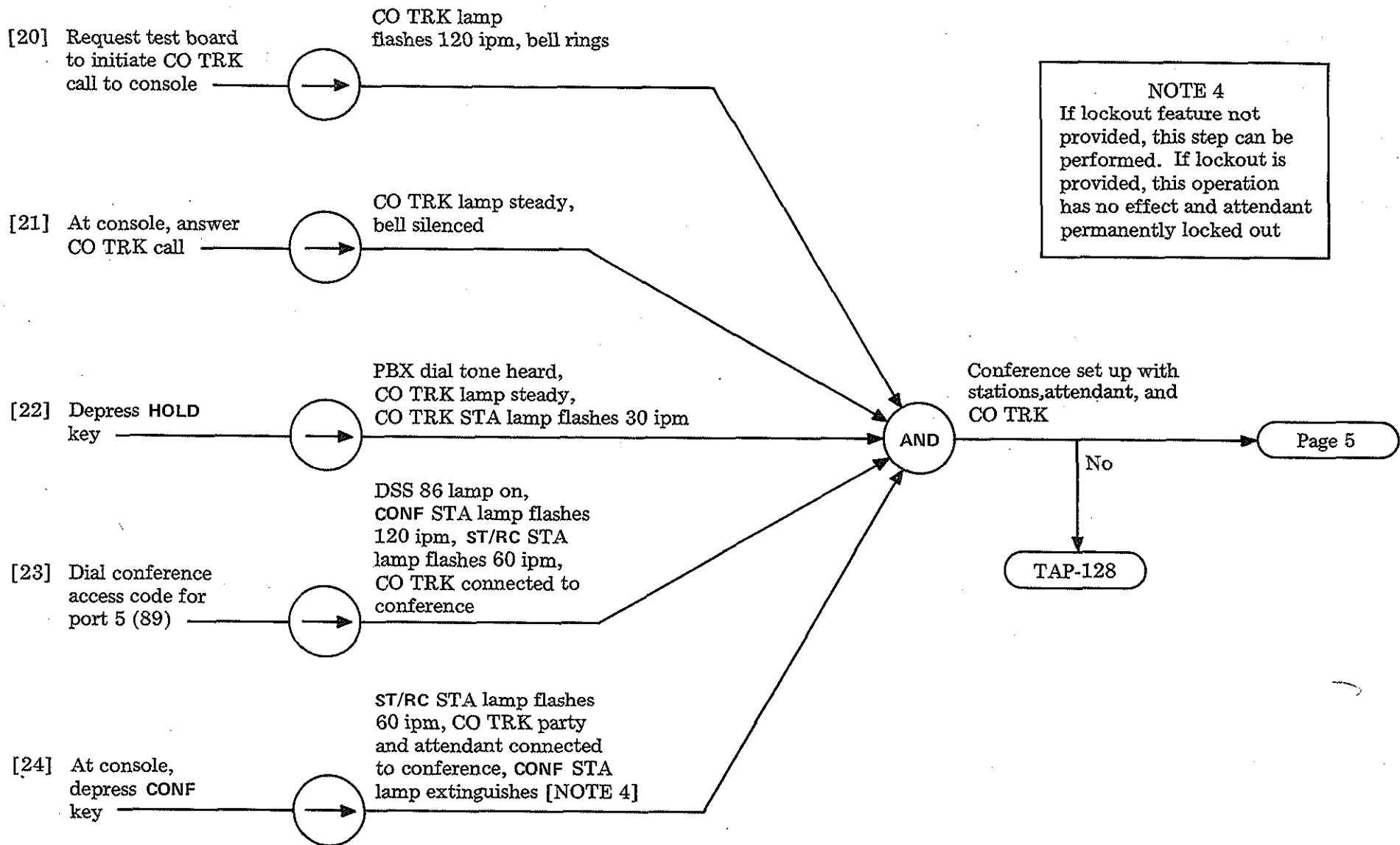
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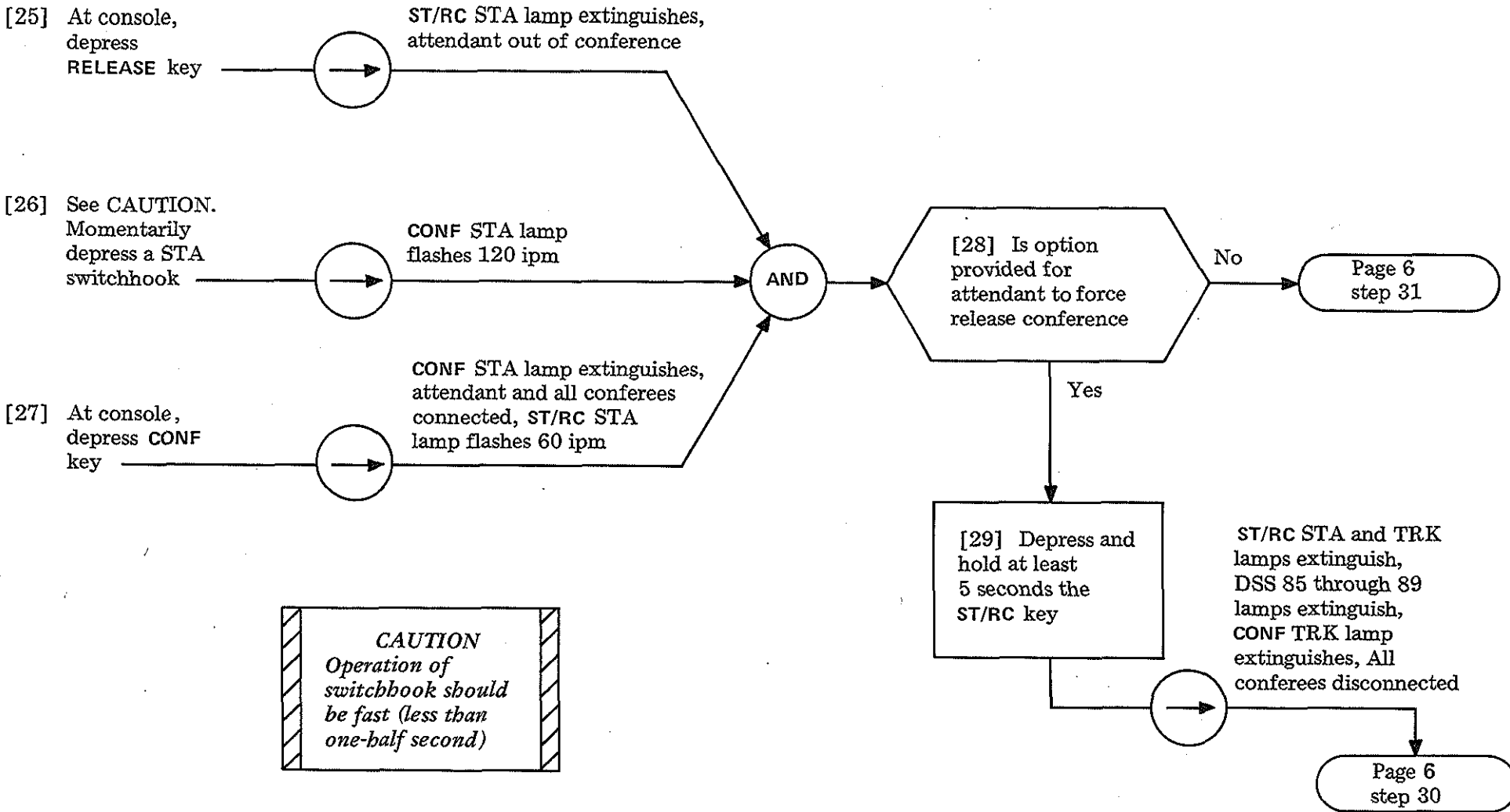
TEST ATTENDANT-CONTROLLED DIAL CONFERENCE FEATURE

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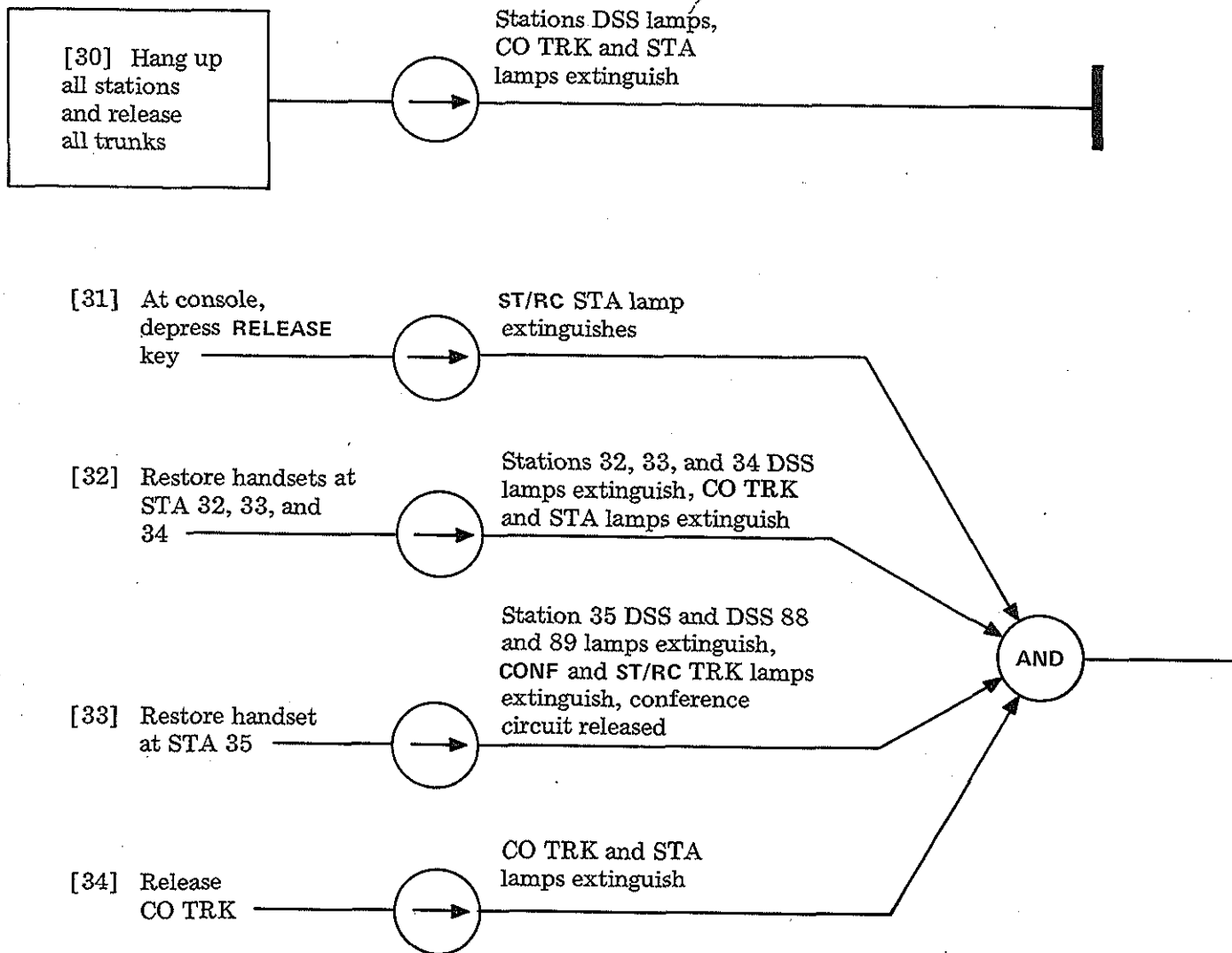
TEST ATTENDANT-CONTROLLED DIAL CONFERENCE FEATURE

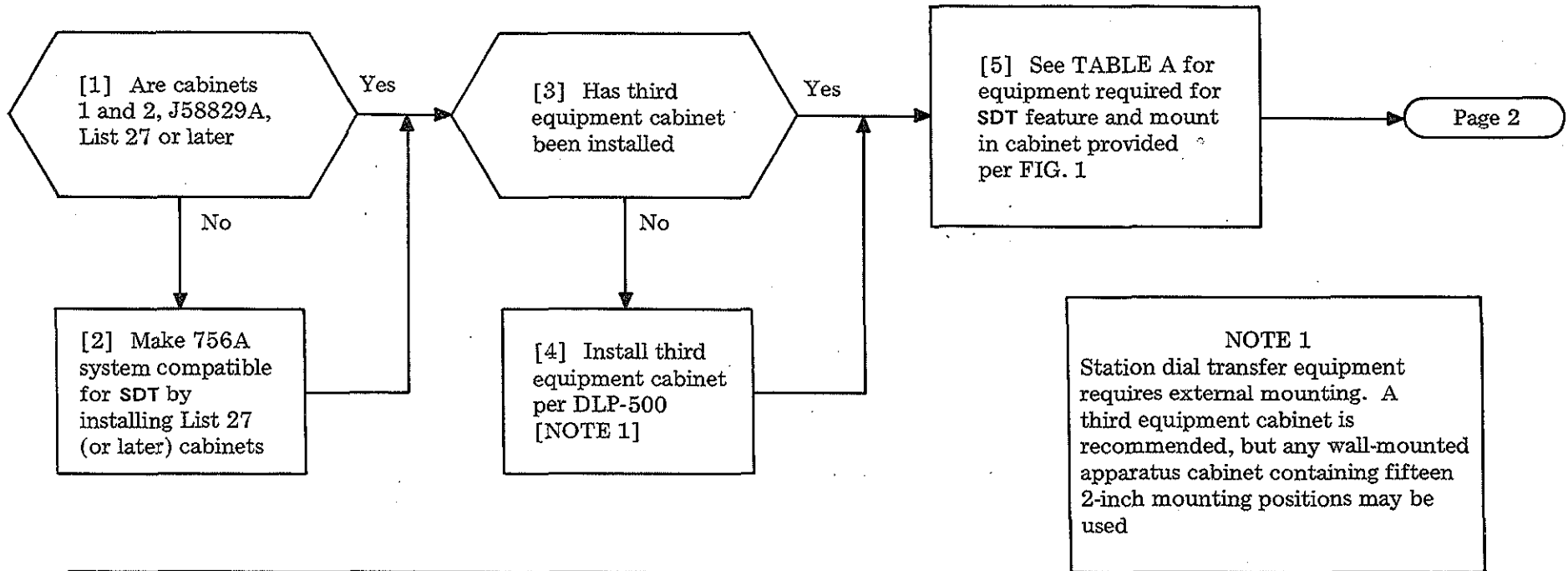
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CAUTION
Operation of switchhook should be fast (less than one-half second)

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NOTE 1
 Station dial transfer equipment requires external mounting. A third equipment cabinet is recommended, but any wall-mounted apparatus cabinet containing fifteen 2-inch mounting positions may be used

TABLE A		
J58829AG	EQUIPMENT	QUANTITY
L1	Control unit	1
L2	Assembly, wiring, and equipment in addition to L1	1
L3	Equipment for add-on conference in addition to L1 and L2	1
L4	Connector-ended cables (2 cables)	1

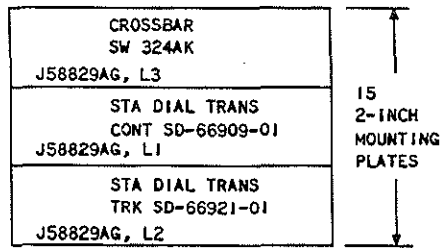
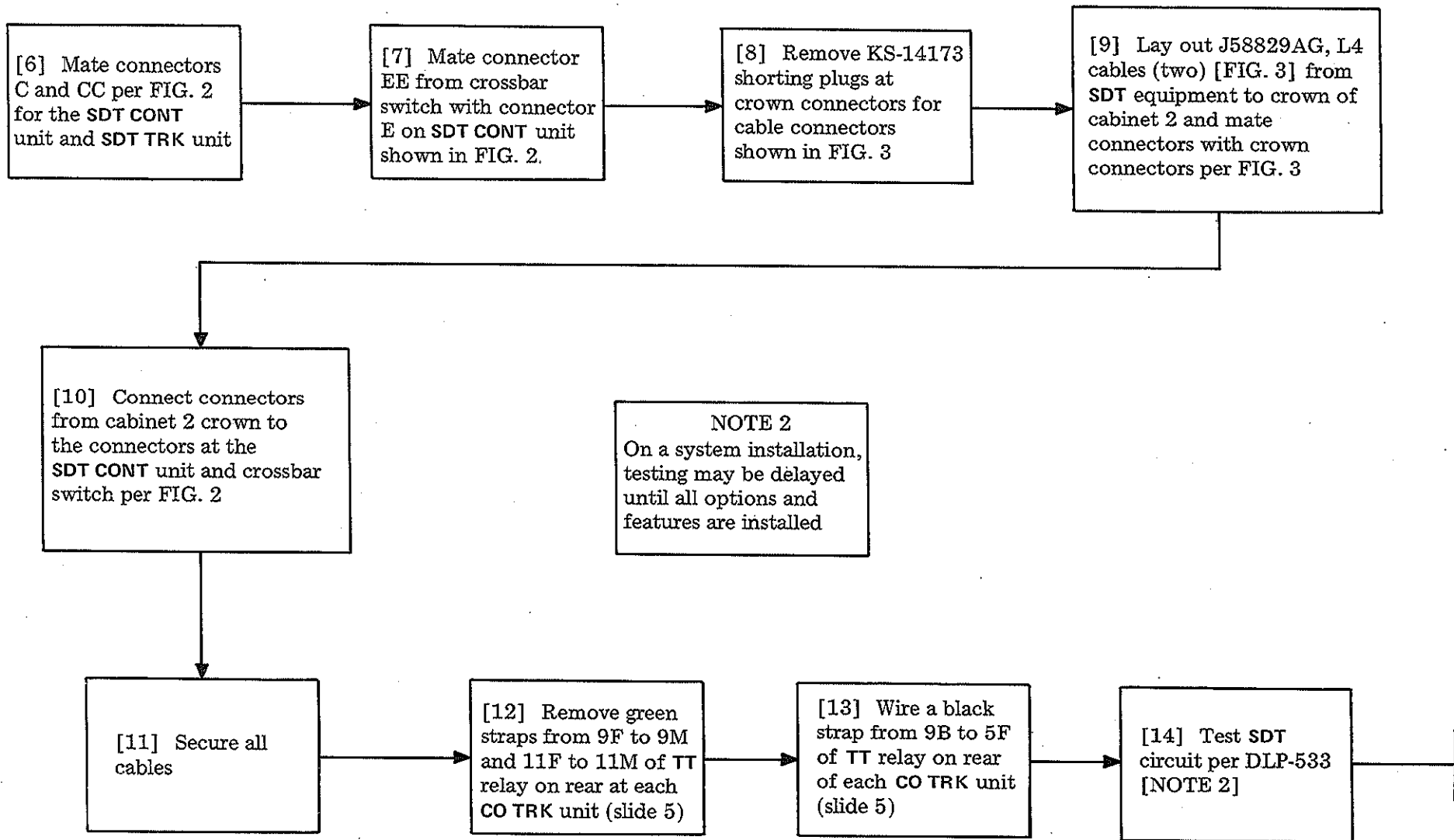


FIG. 1—Mounting Arrangement

INSTALL AND TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER) EQUIPMENT (SD-66909, SD-66921)

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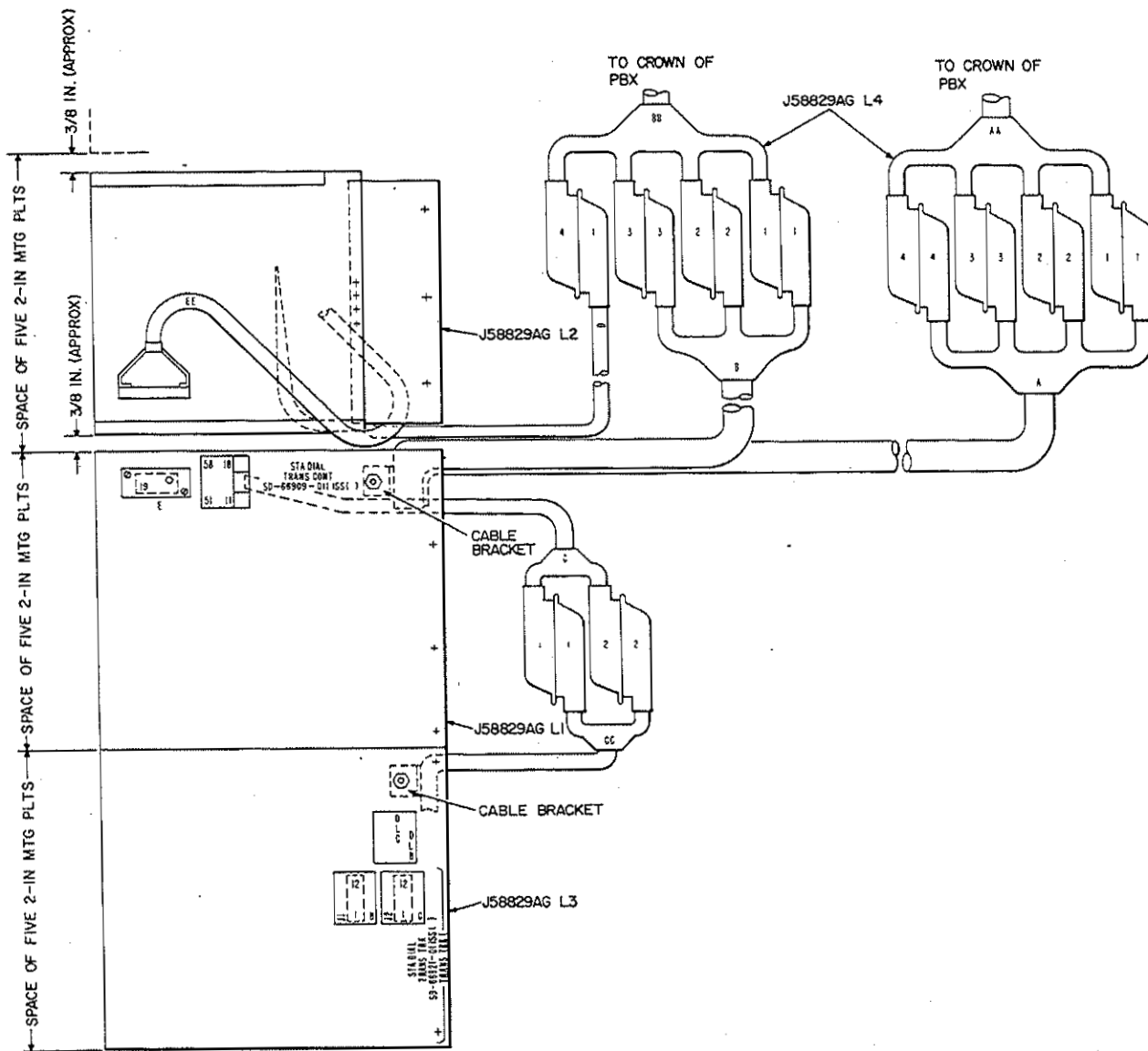


FIG. 2—Equipment for Station Dial Transfer Feature

INSTALL AND TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER) EQUIPMENT (SD-66909, SD-66921)

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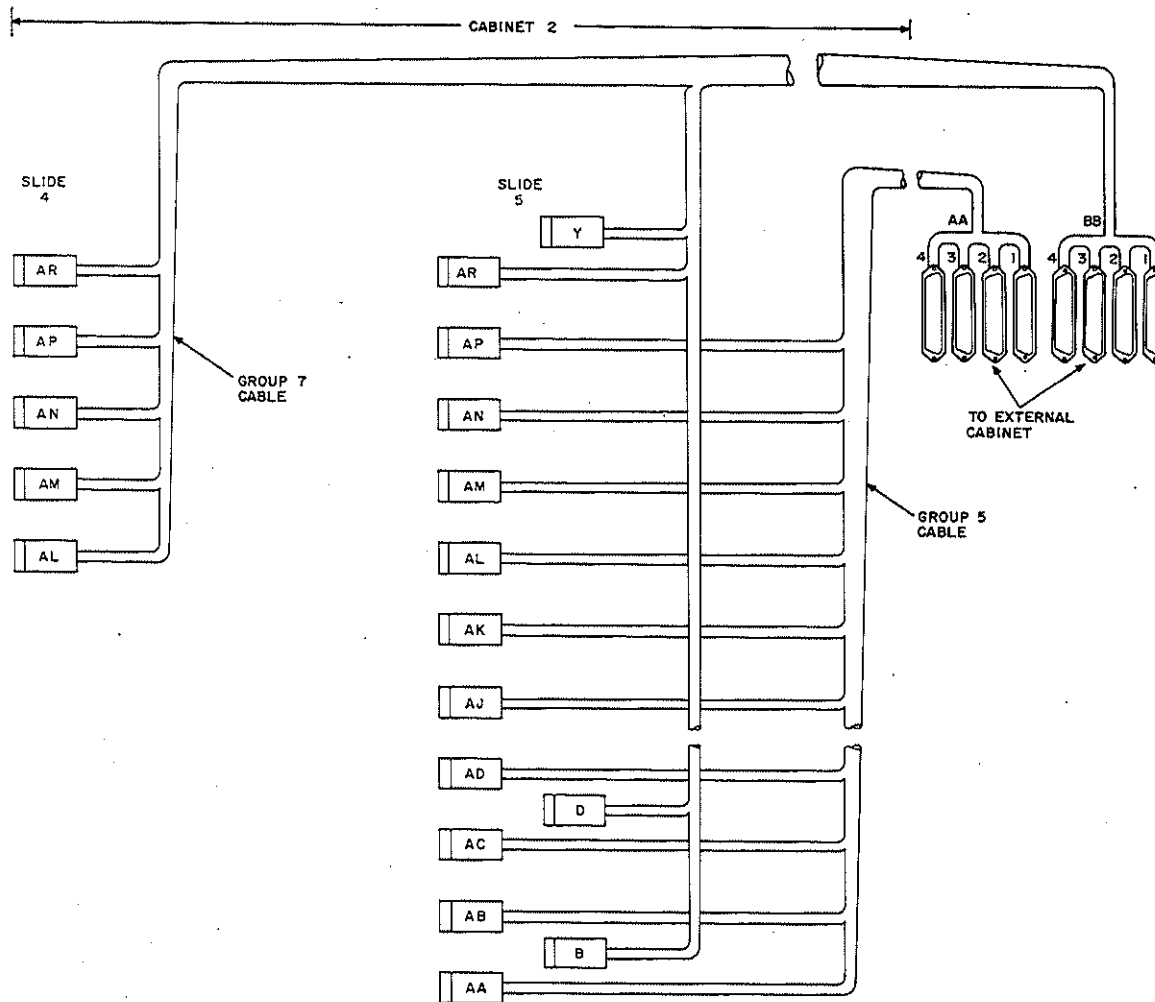
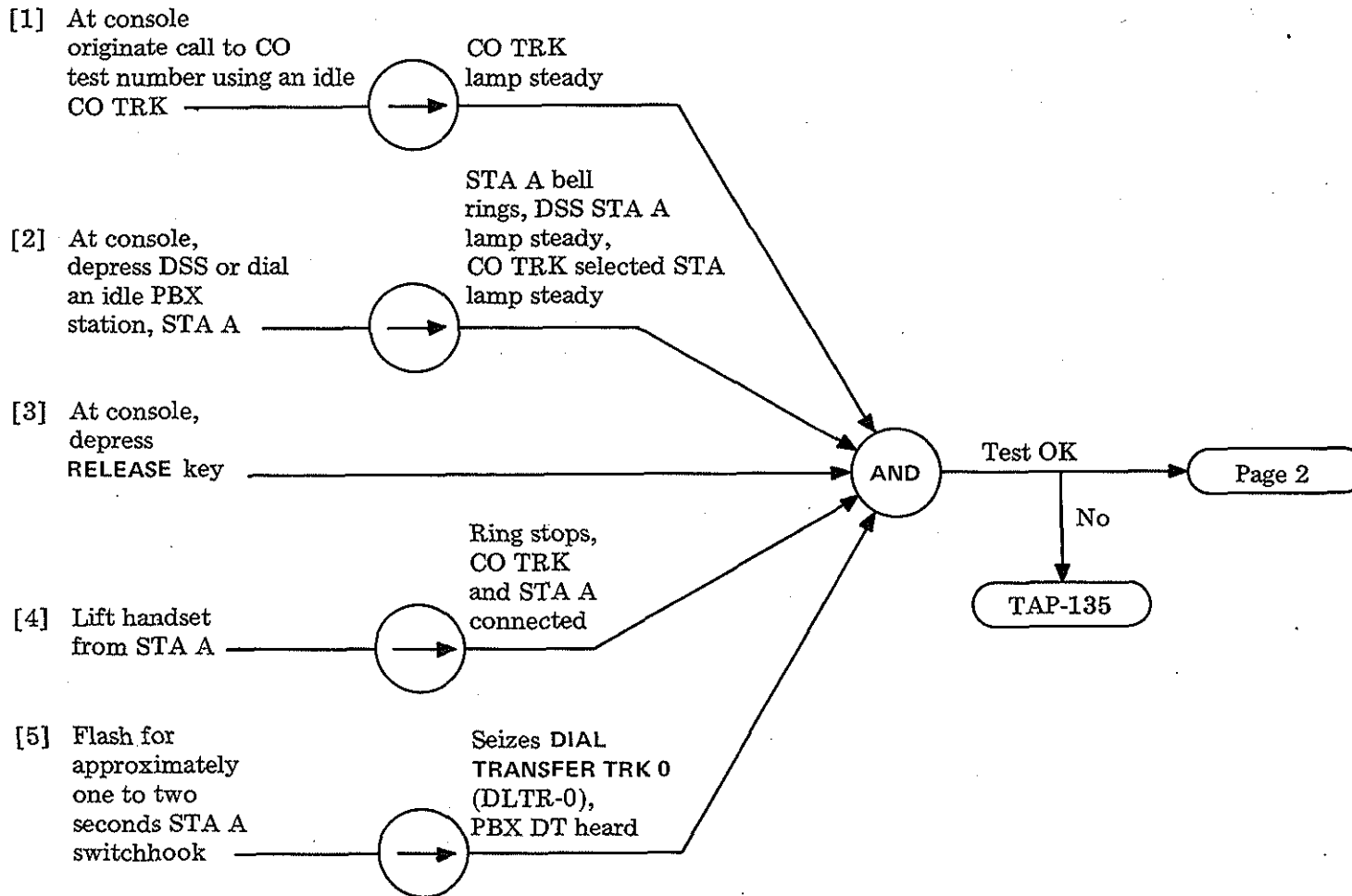


FIG. 3—J58829AG, List 4 Cables

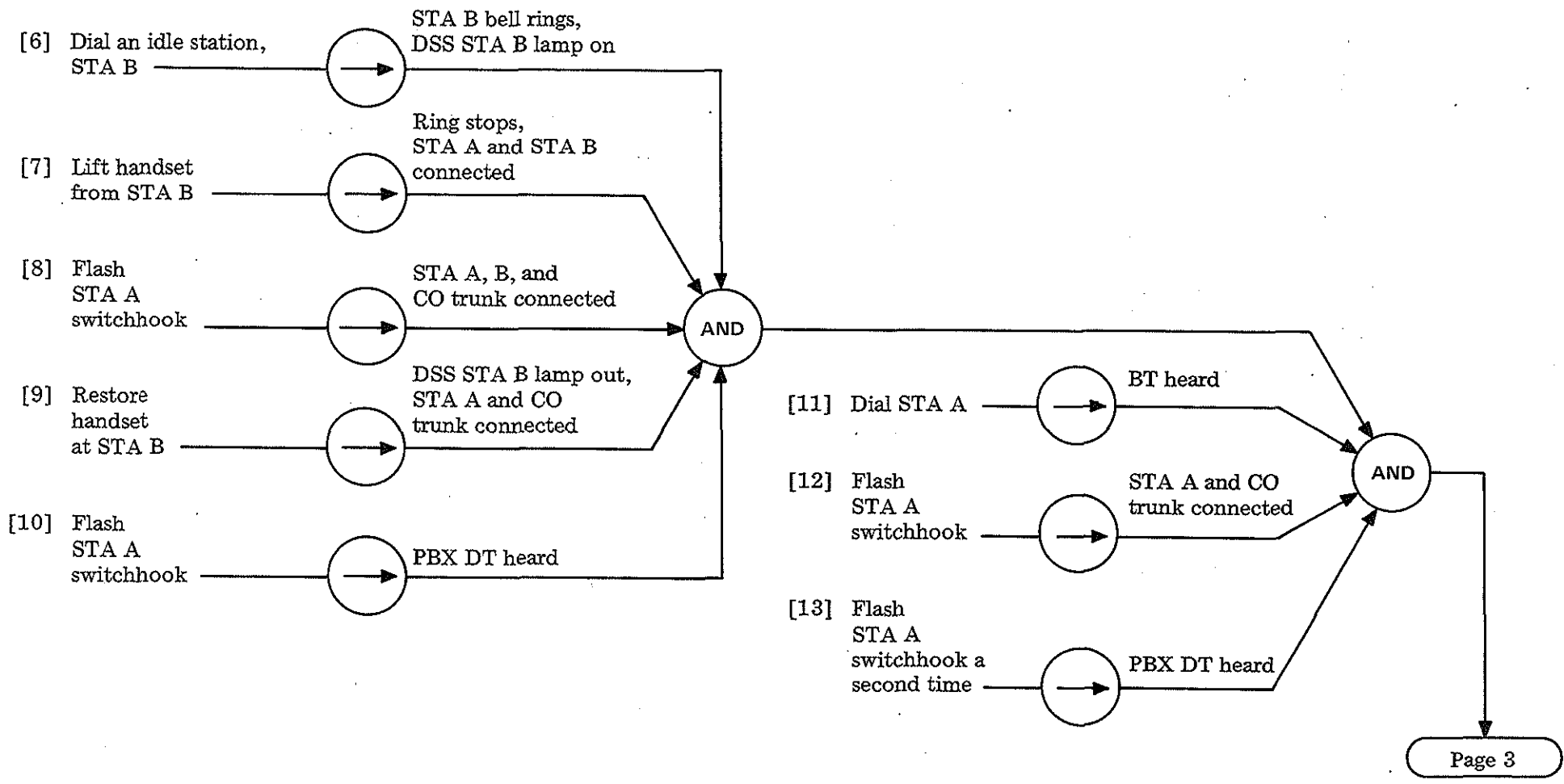
INSTALL AND TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER)
EQUIPMENT (SD-66909, SD-66921)

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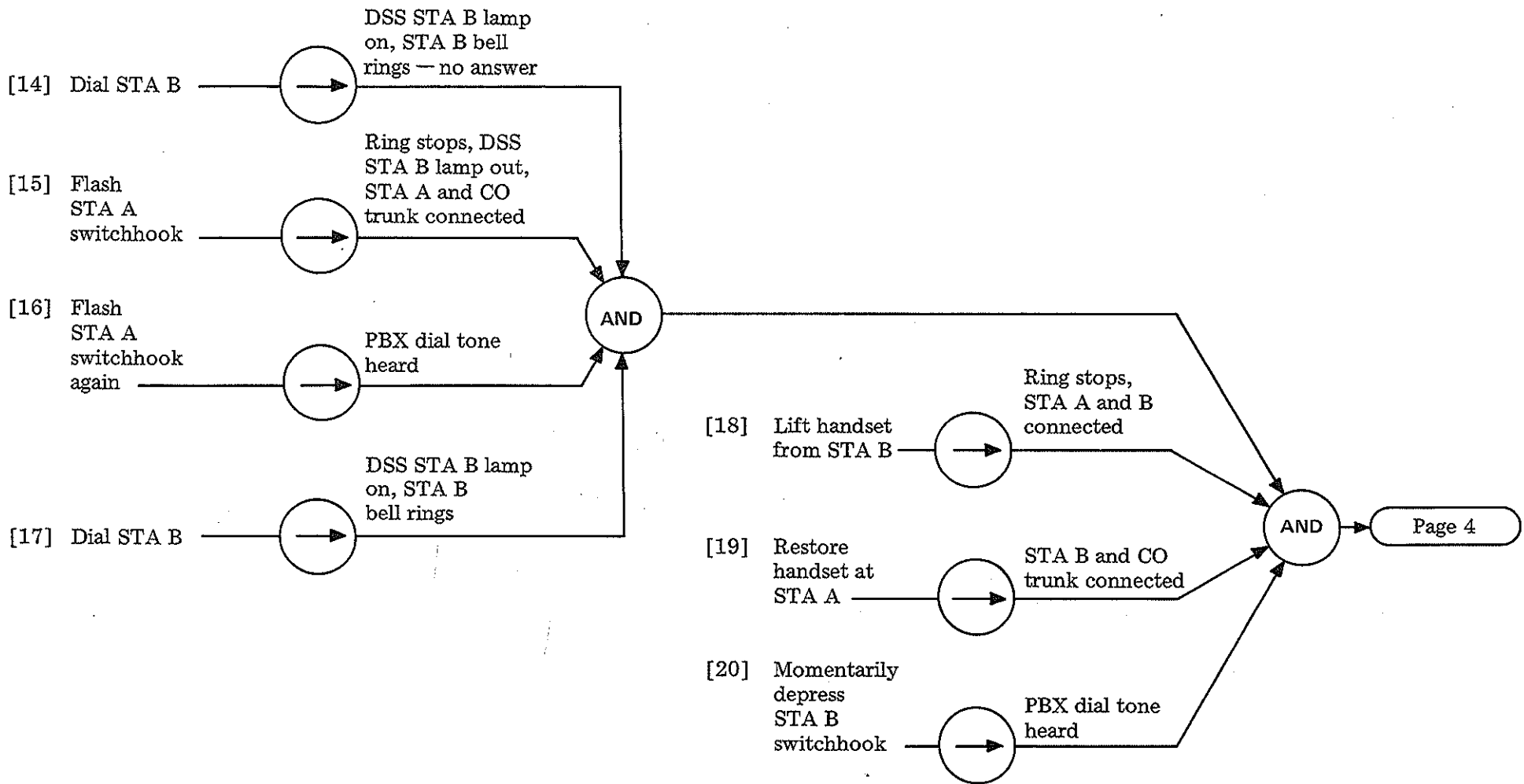
TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER) FEATURE

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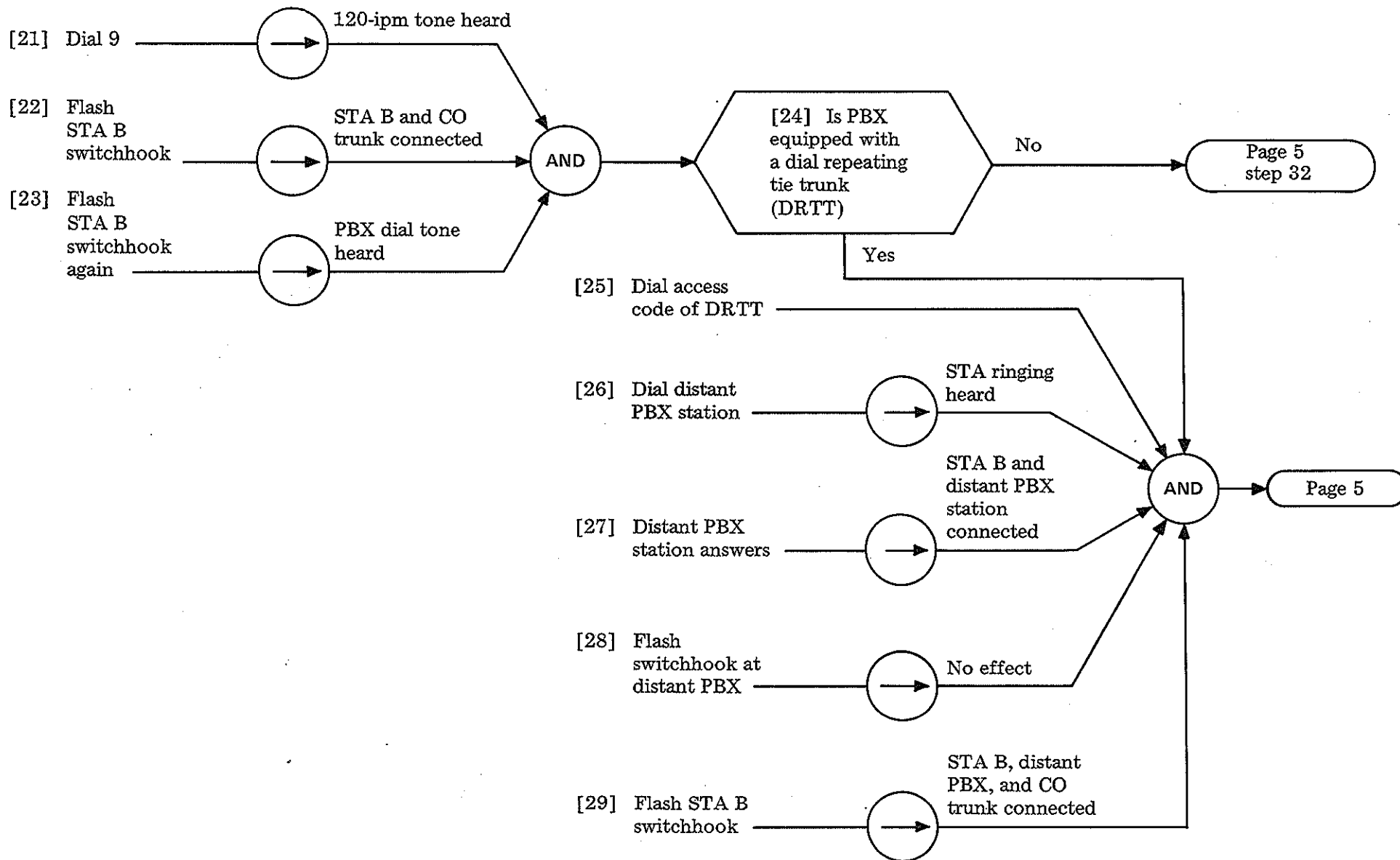
TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER) FEATURE

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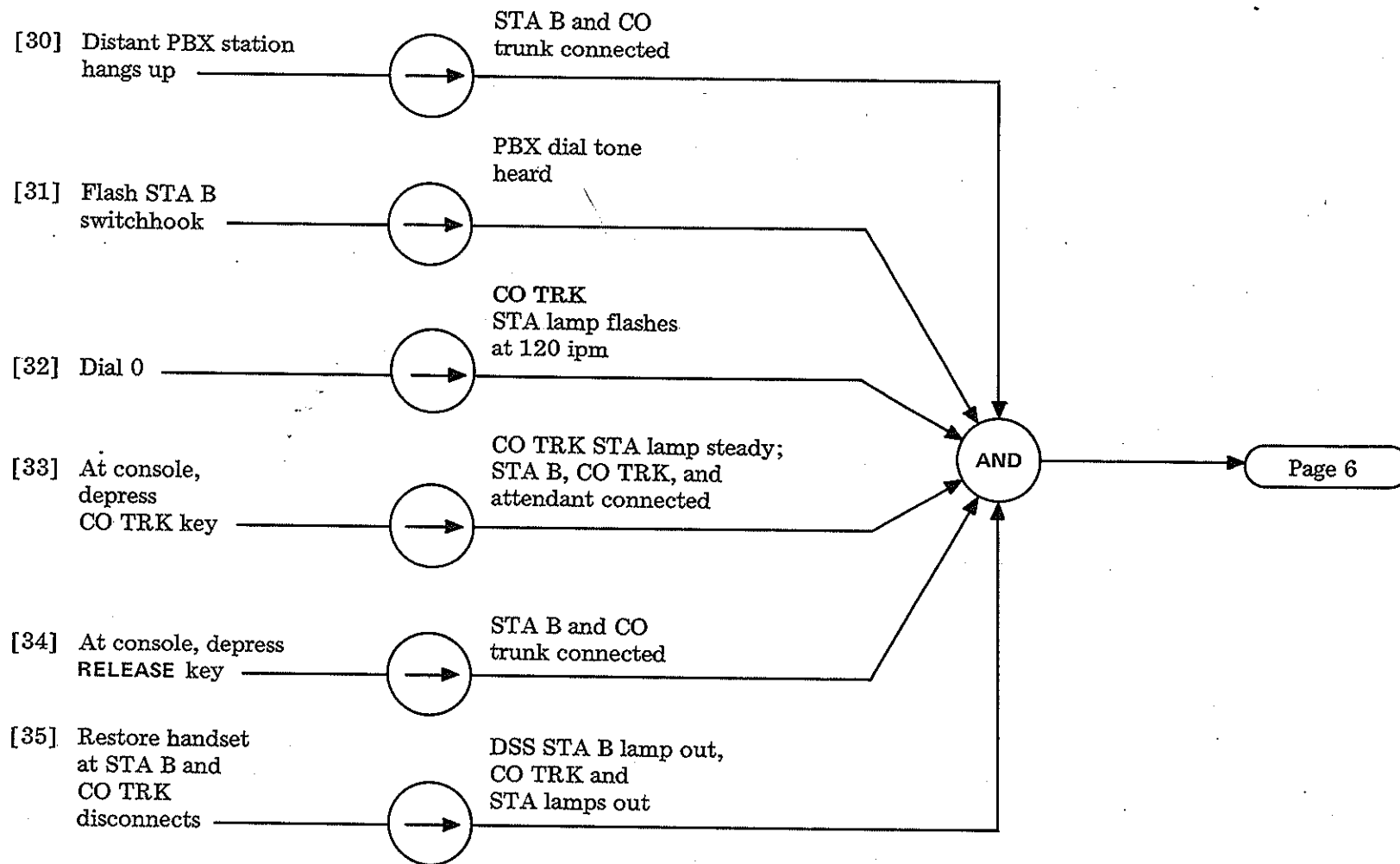
TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER) FEATURE

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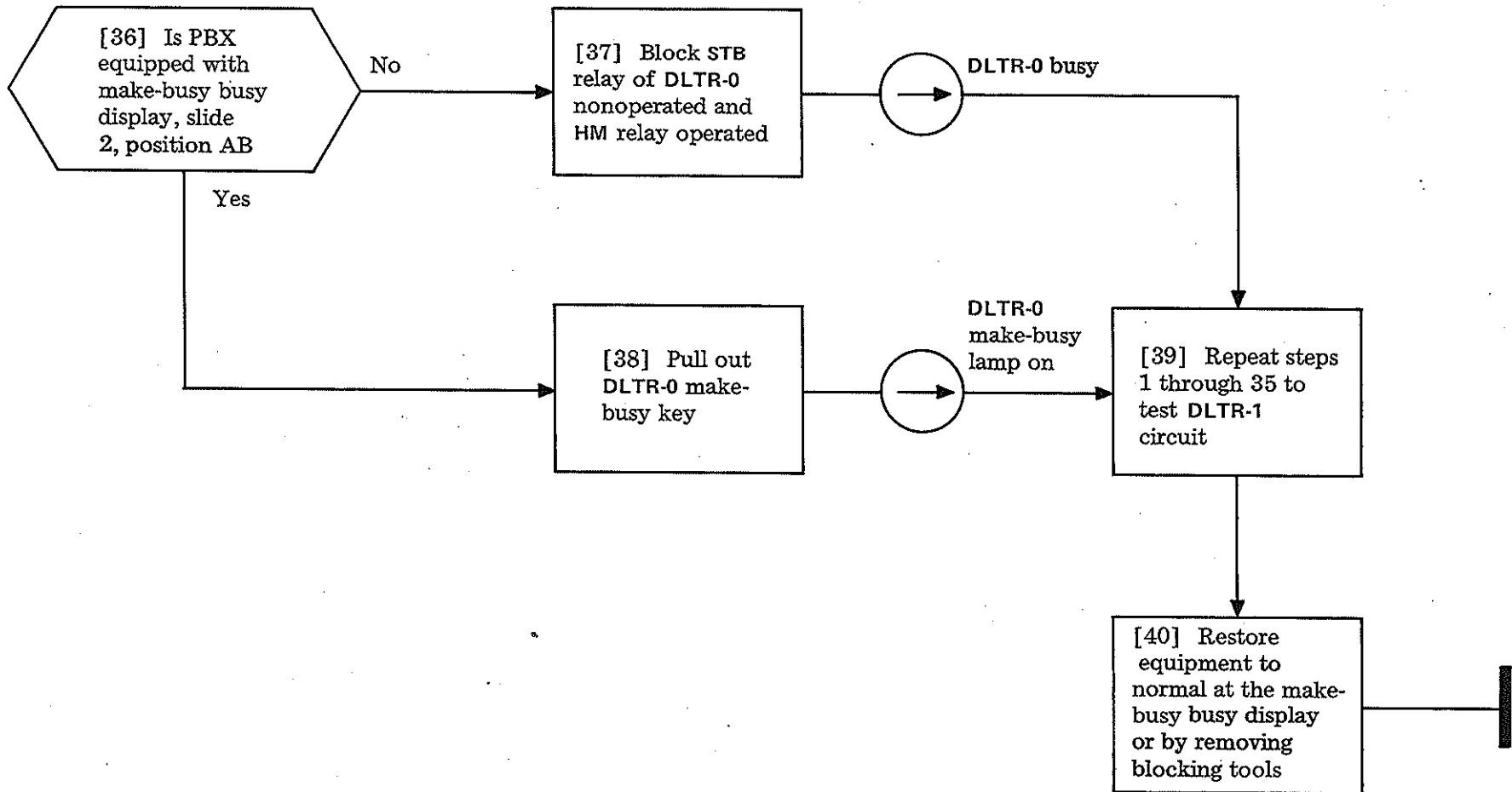
TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER) FEATURE

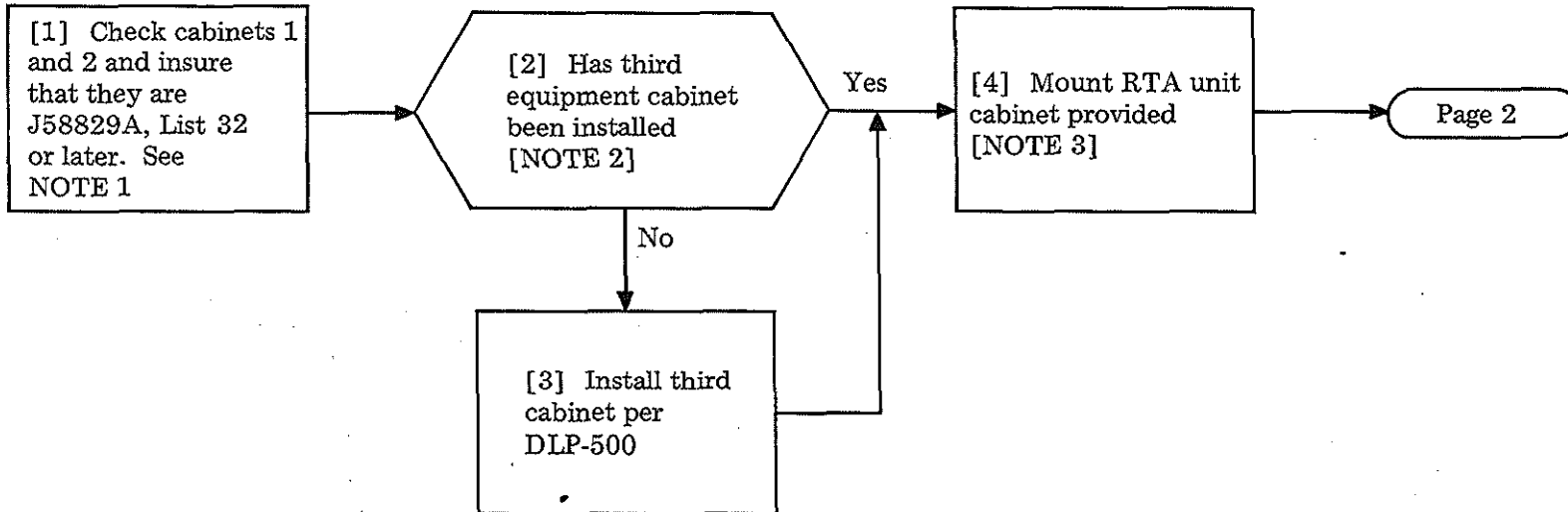
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TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER) FEATURE

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NOTE 1
Cabinets must be List 32 or later to be compatible with this RTA circuit

NOTE 2
RTA (auxiliary position) circuit requires external mounting. A third cabinet is recommended, but any apparatus cabinet containing three 2-inch mounting plates may be used

NOTE 3
Mount RTA unit above station dial transfer unit, if feature is provided

INSTALL AND TEST TRUNK-ANSWER-FROM-ANY-STATION (PREVIOUSLY REMOTE-TRUNK-ANSWER) EQUIPMENT (SD-66910)

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[5] Remove KS-14173 shorting plugs from crown connectors AT5 and AS5 found above slide 5

[6] Lay out J58829AH, L2 from RTA unit to crown of cabinet 2 and mate cable and crown connectors per FIG. 1

[7] Mate the two connectors with connectors 1 and 2 at the RTA unit

[8] Remove strap CS to TLA for T80 (STA 20) on LINE TS (slide 2, position M)

[9] Pull leads from local cable form of mounting plate positions indicated and connect to TS on tie trunk adapter (slide 2, position P) per TABLE A

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TABLE A				
CONN AY2 (IN CROWN)	LEAD COLOR	LEAD DESIG	TS-A POS P	TS-B POS P
15 ←	S-W	GRD	○ T80	
4 ←	S	BAT	○ T80	
3 ←	BR	T2		○ T80-T2
14 ←	BR-W	R2		○ T80-R2
5 ←	R	S2		○ T80-S2

T80 is recommended for RTA, but any universal trunk may be used by substituting new trunk for T80

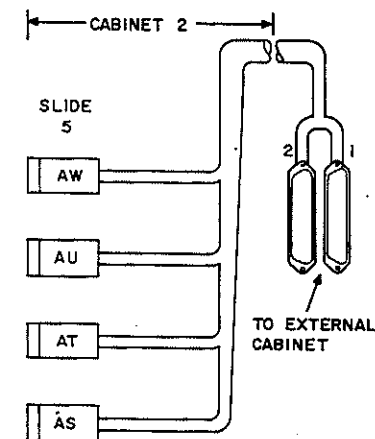


FIG. 1

INSTALL AND TEST TRUNK-ANSWER-FROM-ANY-STATION (PREVIOUSLY REMOTE-TRUNK-ANSWER) EQUIPMENT (SD-66910)

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[10] Remove straps T to T1-1 and R to R1-1 on TS-B (slide 2, position P) for T80 [NOTE 4]

[11] Wire straps HM-1 to HM-2 and IT-1 to IT-2 on TS-D (slide 2, position Q) for T80

[12] Refer to NOTE 5 and remove straps on MISC TS of dial pulse registers 0 and 1 (slide 6, positions B and E)

[13] Wire straps 13 to 14, 24 to 25, and 15 to 25 on MISC TS of dial pulse registers 0 and 1 (slide 6, positions B and E)

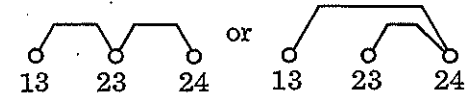
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NOTE 4

This installation uses TRK 80 as access code for RTA. Any universal line circuit may be used by substituting new line (T80)

NOTE 5

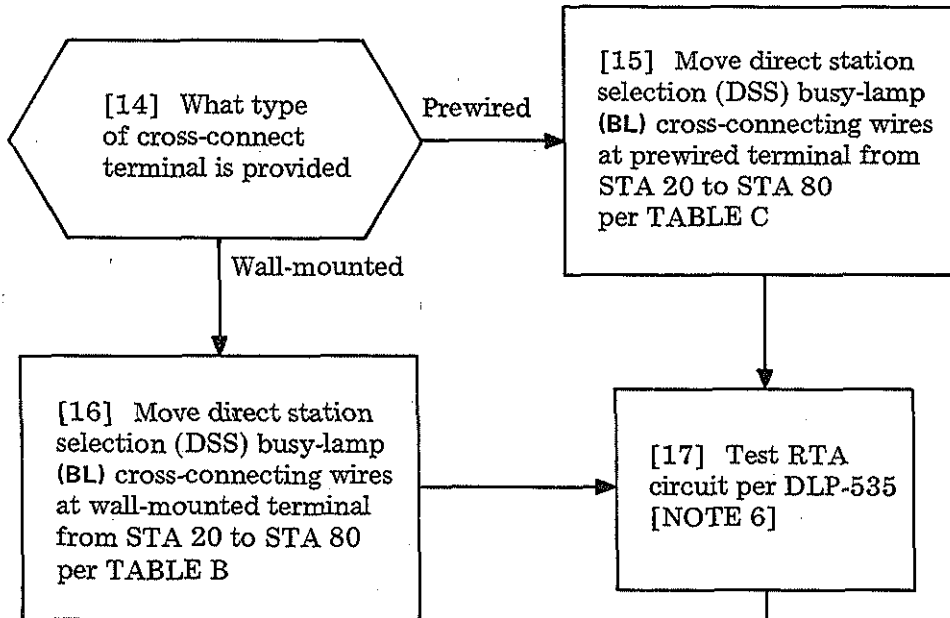
Straps to be removed may be wired in either of the following arrangements:



In either case, both straps are to be removed.

INSTALL AND TEST TRUNK-ANSWER-FROM-ANY-STATION (PREVIOUSLY REMOTE-TRUNK-ANSWER) EQUIPMENT (SD-66910)

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NOTE 6
On a system installation, testing may be delayed until all options and features are installed.

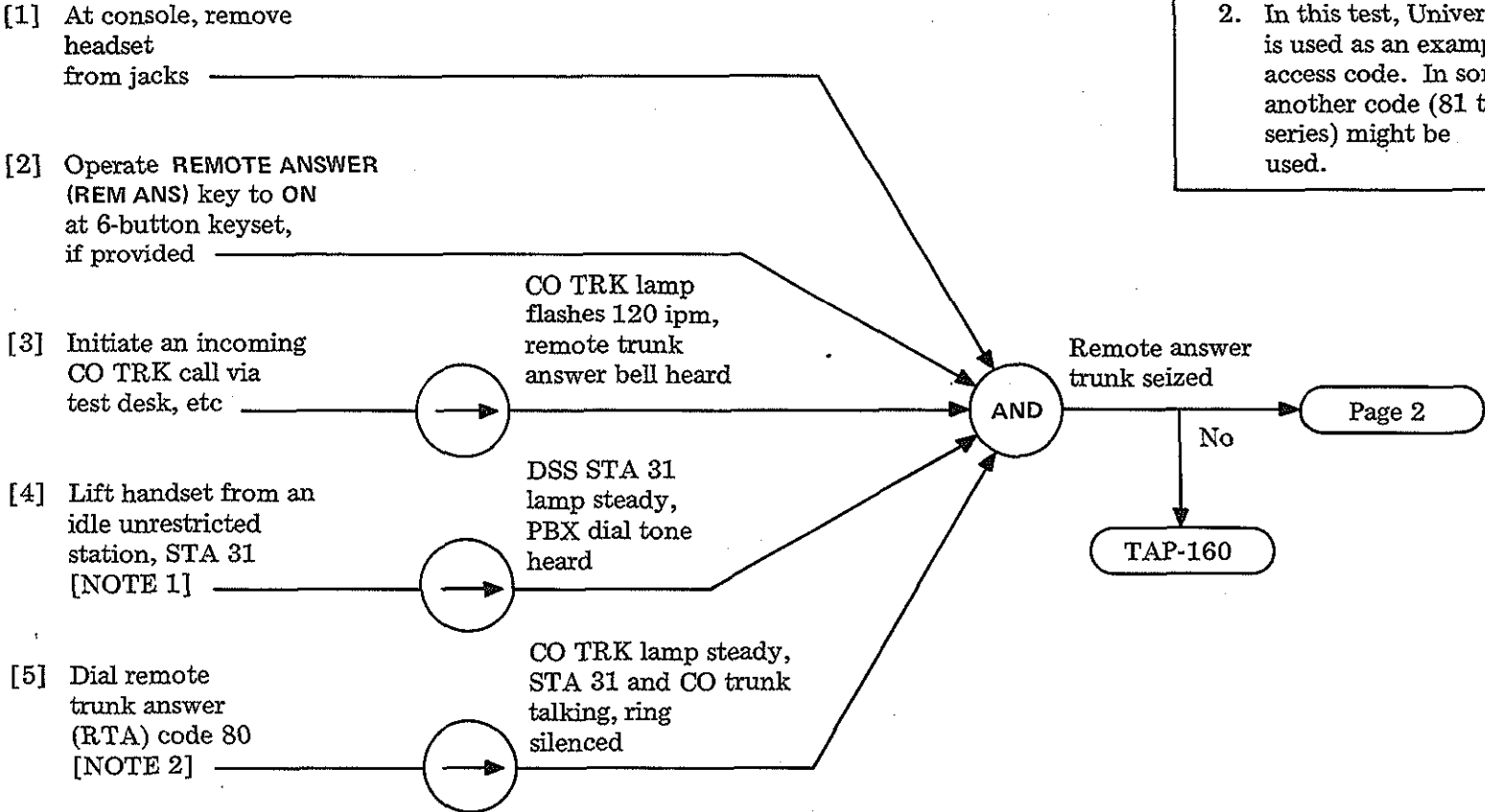
TABLE B							
WALL TERMINAL							
FROM				TO			
G-W BINDER BLOCK A10	COLOR	LEAD	TERM	BR-W BINDER BLOCK B10	COLOR	LEAD	TERM
	Y-BL	BL21	T16		Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
	S-Y	BL28	R20		S-V	BL88	R25

TABLE C							
PREWIRED TERMINAL							
FROM				TO			
G-W BINDER BLOCK B5	COLOR	LEAD	TERM	BR-W BINDER BLOCK B6	COLOR	LEAD	TERM
	Y-BL	BL21	T16		V-BL	BL81	T21
	BL-Y	BL20	R16		BL-V	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
	S-Y	BL28	R20		S-V	BL88	R25

INSTALL AND TEST TRUNK-ANSWER-FROM-ANY-STATION (PREVIOUSLY REMOTE-TRUNK-ANSWER) EQUIPMENT (SD-66910)

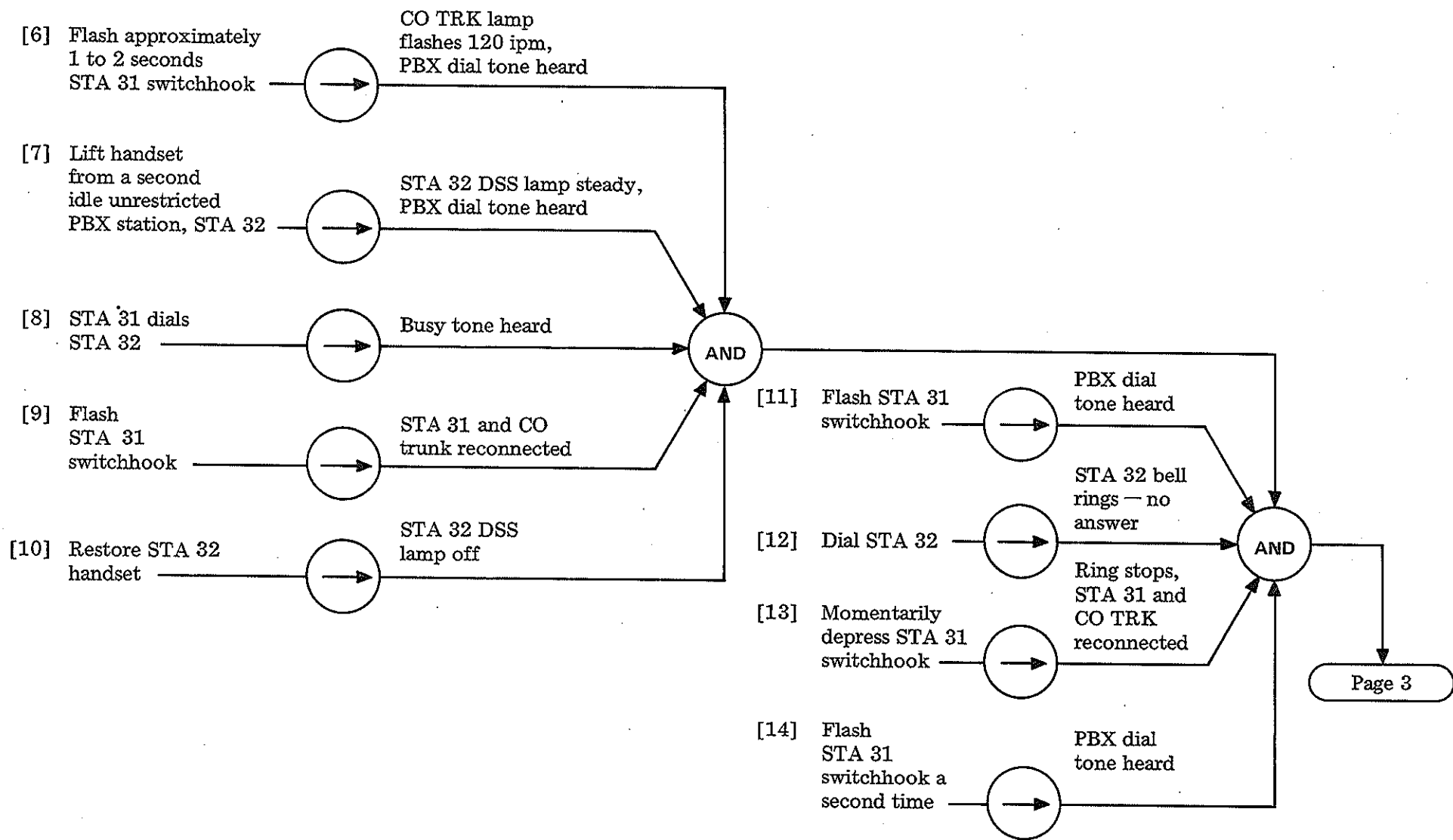
NOTES

1. This test assumes DSS feature provided and STA 31, and 32 are available. Any available stations can be used.
2. In this test, Universal TRK 80 is used as an example for access code. In some cases, another code (81 through 89 series) might be used.



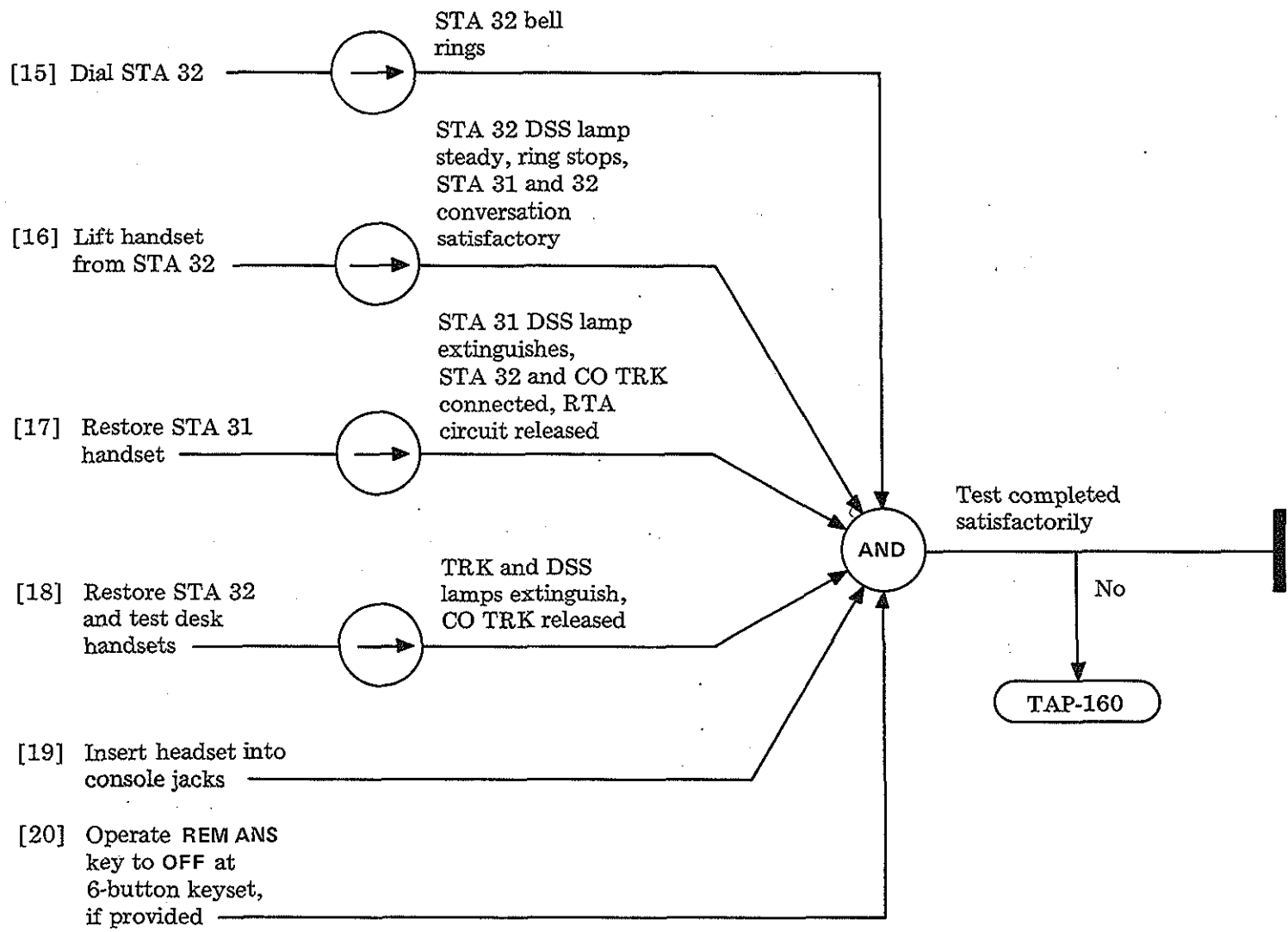
**TEST TRUNK-ANSWER-FROM-ANY-STATION
(PREVIOUSLY REMOTE TRUNK ANSWER) FEATURE**

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TEST TRUNK-ANSWER-FROM-ANY-STATION
(PREVIOUSLY REMOTE TRUNK ANSWER) FEATURE

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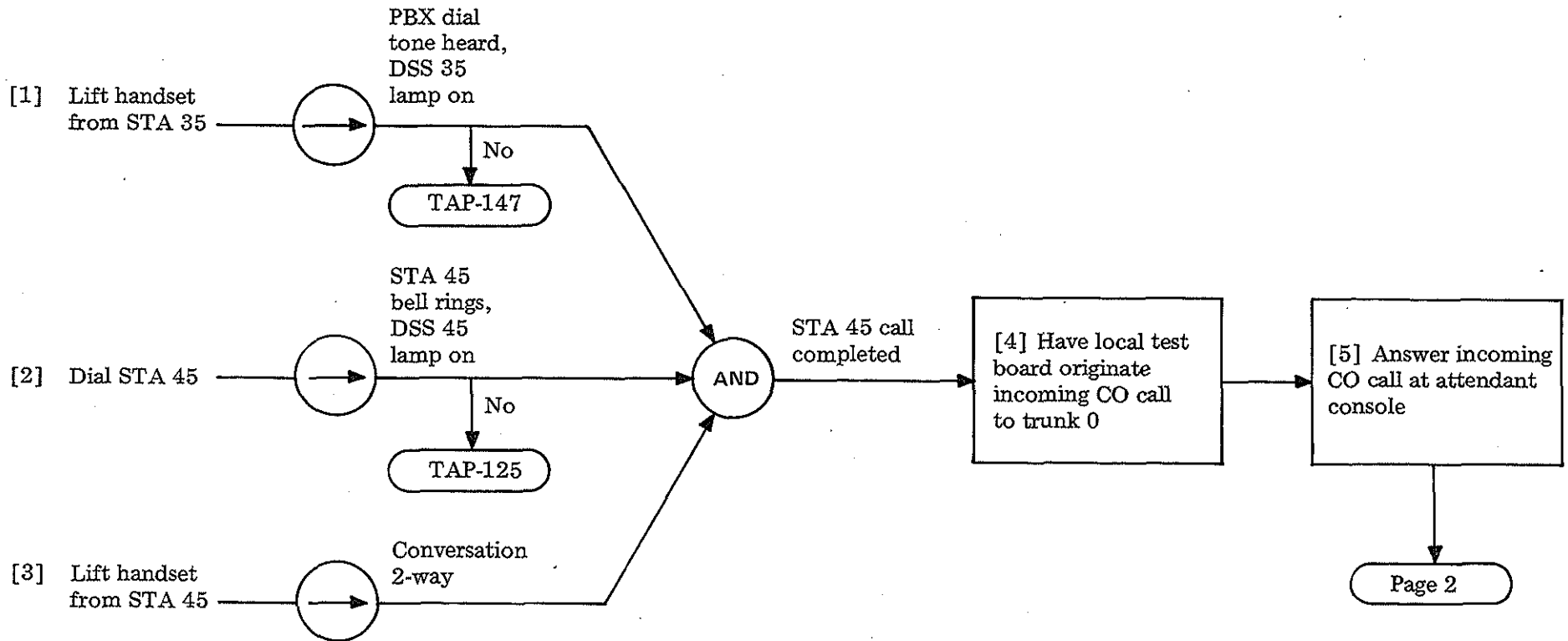


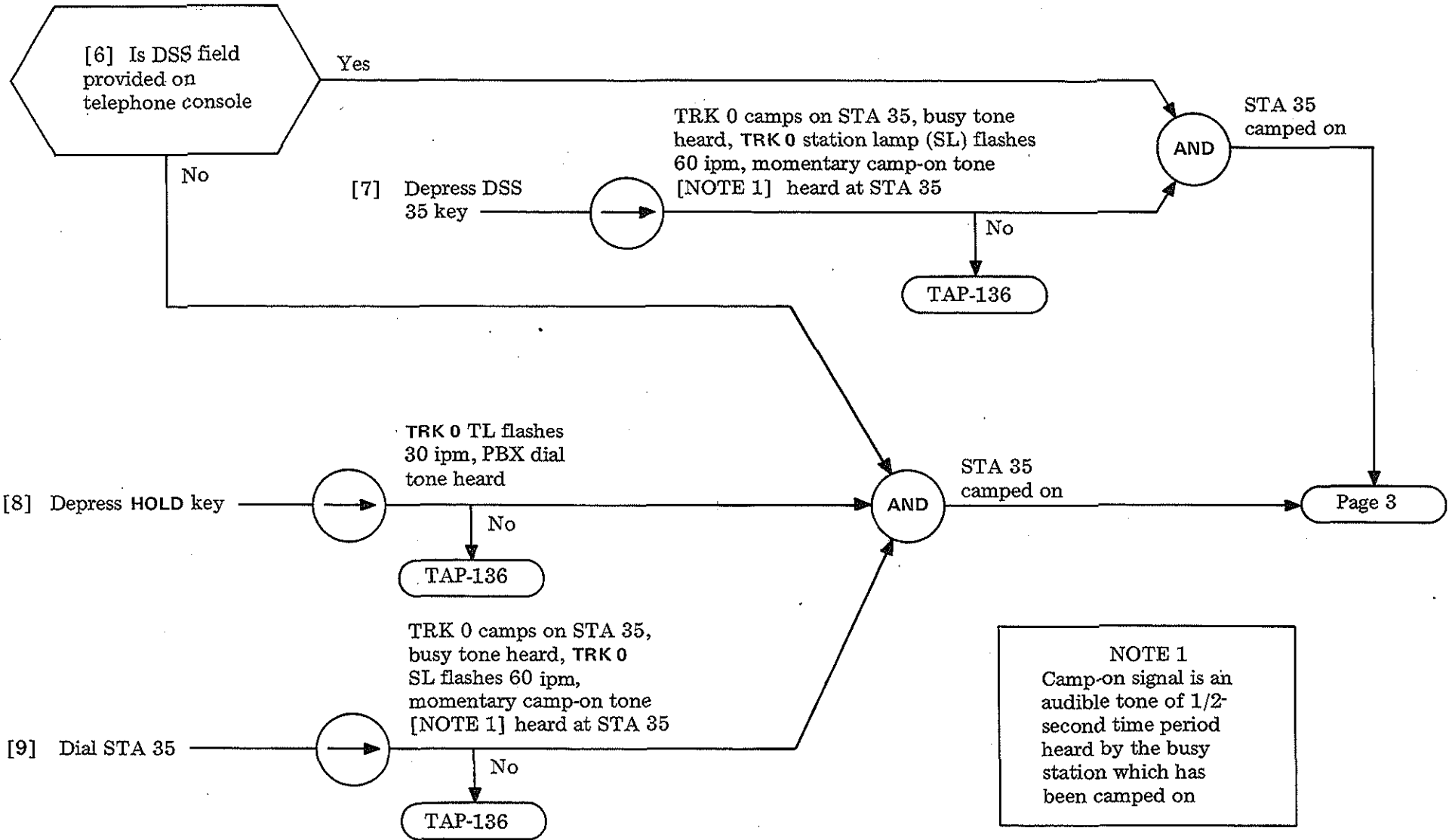
**TEST TRUNK-ANSWER-FROM-ANY-STATION
(PREVIOUSLY REMOTE TRUNK ANSWER) FEATURE**

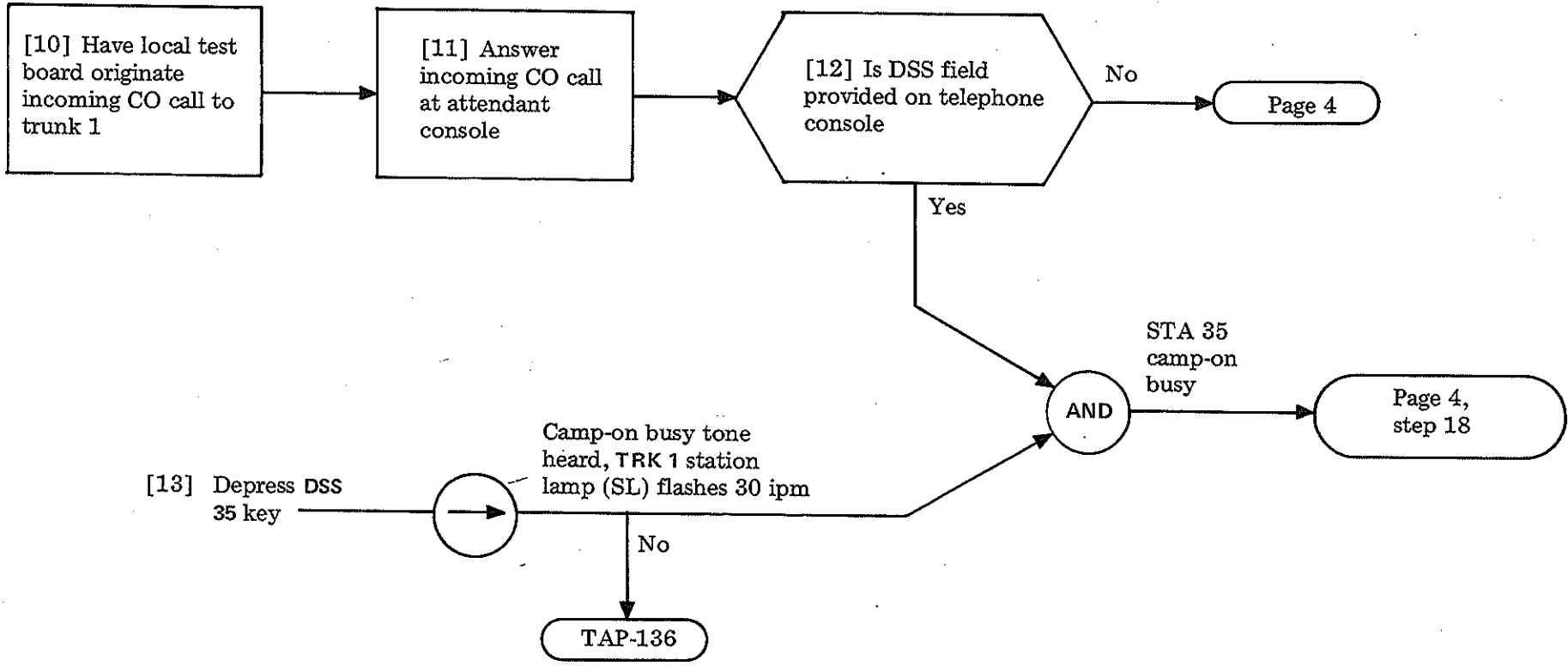
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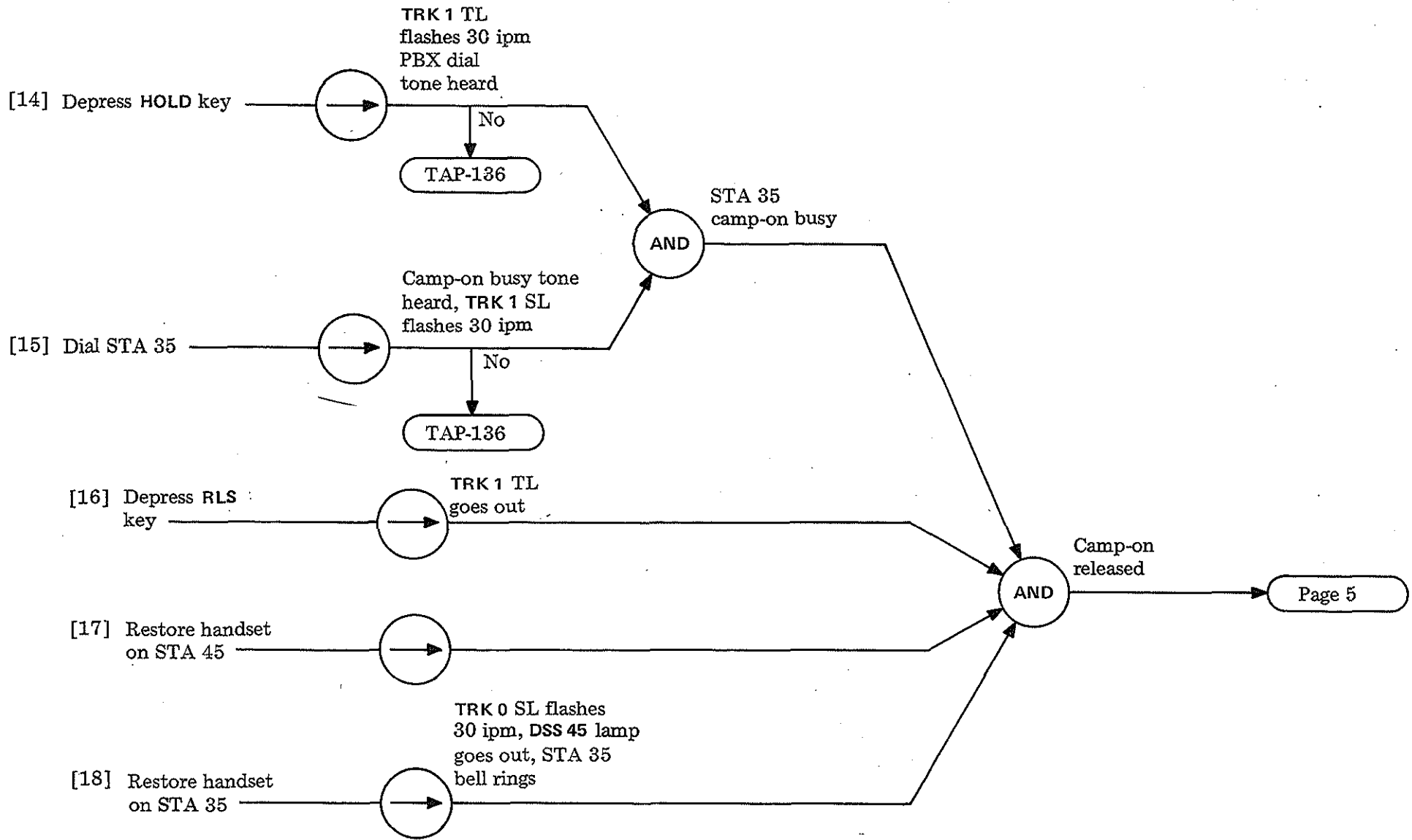
SUMMARY

This procedure uses stations 35 and 45 and an incoming CO call to set up a camp-on call. Other stations may be substituted in the process if necessary. Originate an incoming CO call to console via local test board attendant.



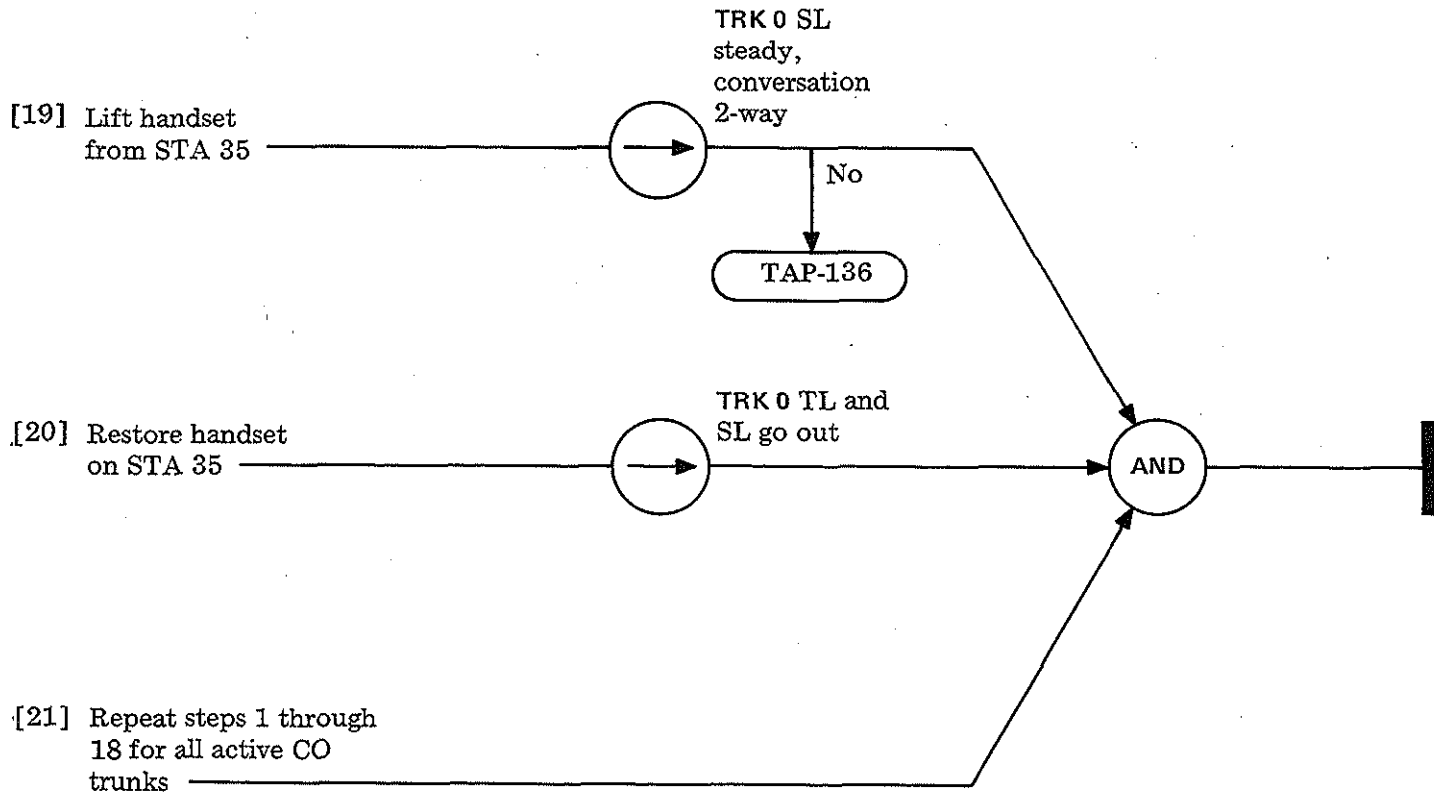






TEST CAMP-ON FEATURE

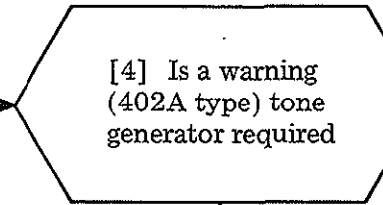
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[1] Unpack and mount **BUSY VERIFICATION TRUNK (BVT) J58829AJ-1, L1**, slide 4, position AB

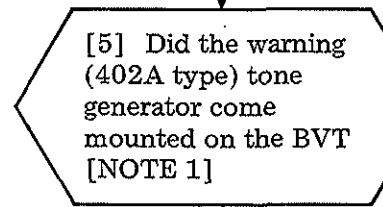
[2] Remove shorting plug from plug P1 slide 4, position AB (wiring side)

[3] Mate plug P1 to connector J1 on rear of BVT unit J58829AJ-1, L1



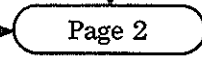
No

Yes



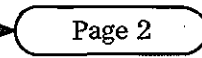
Yes

No



NOTE 1
Warning tone generator (402A type) J58829AJ, L2 when ordered at same time as BVT usually comes mounted and wired, ready for service on the BVT

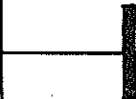
[6] Mount 402A-type warning tone generator on left front of BVT mounting plate



[7] Wire tone generator to busy verification trunk per TABLE A

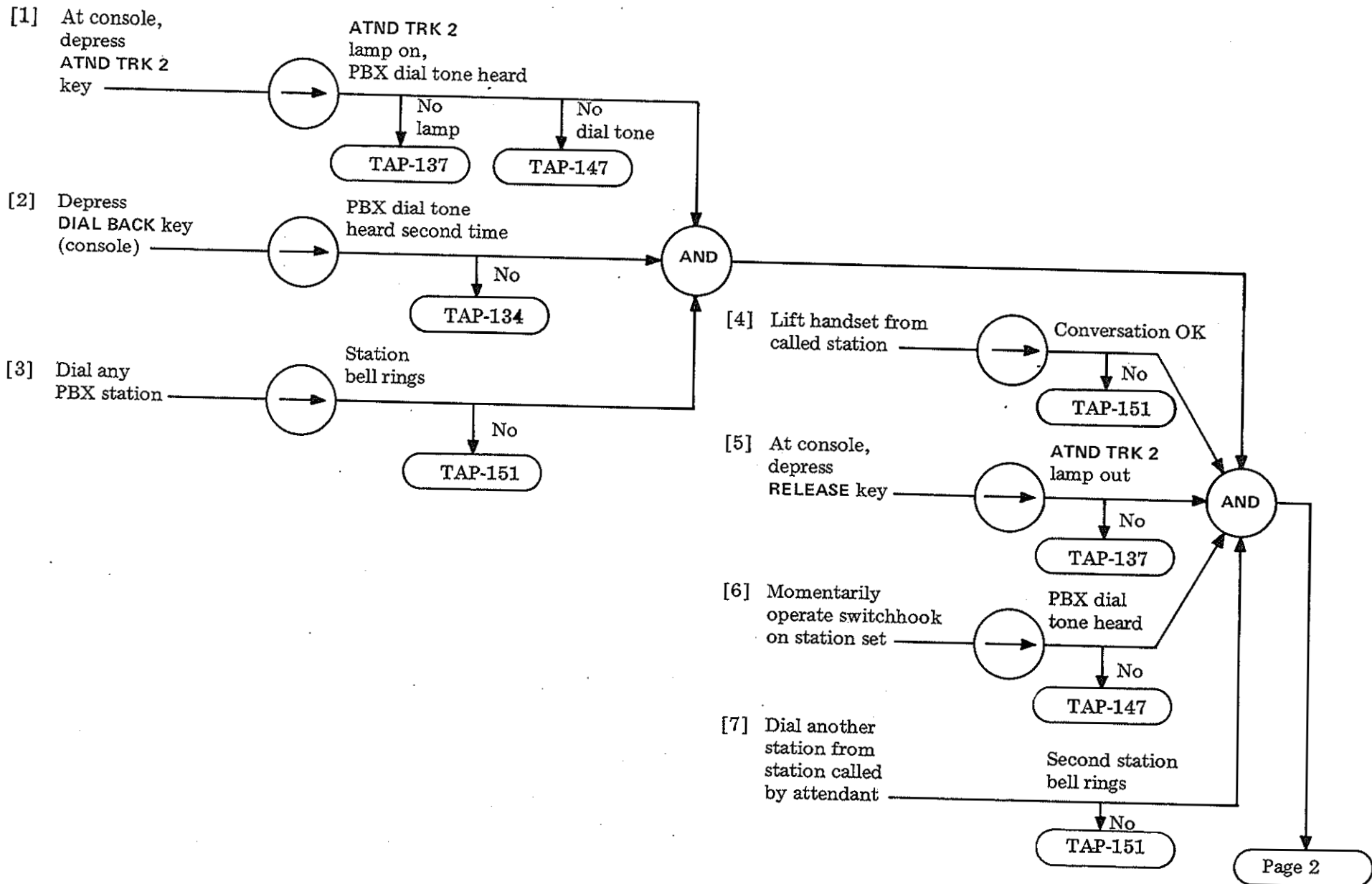
TABLE A			
WIRE		FROM	
COLOR	LEAD DESIG	402A TONE GEN	TO
Red	BAT	Terminal 1	NT (18AG) resistor
Black	GRD	Terminal 2	7 Make contact of BV relay
Green	OU2	Terminal 3	1 Fixed contact of BVT relay
Green	OU1	Terminal 4	5 Fixed contact of BVT relay

[8] Test BUSY
VERIFICATION
TRUNK circuit
per DLP-538
[NOTE 2]



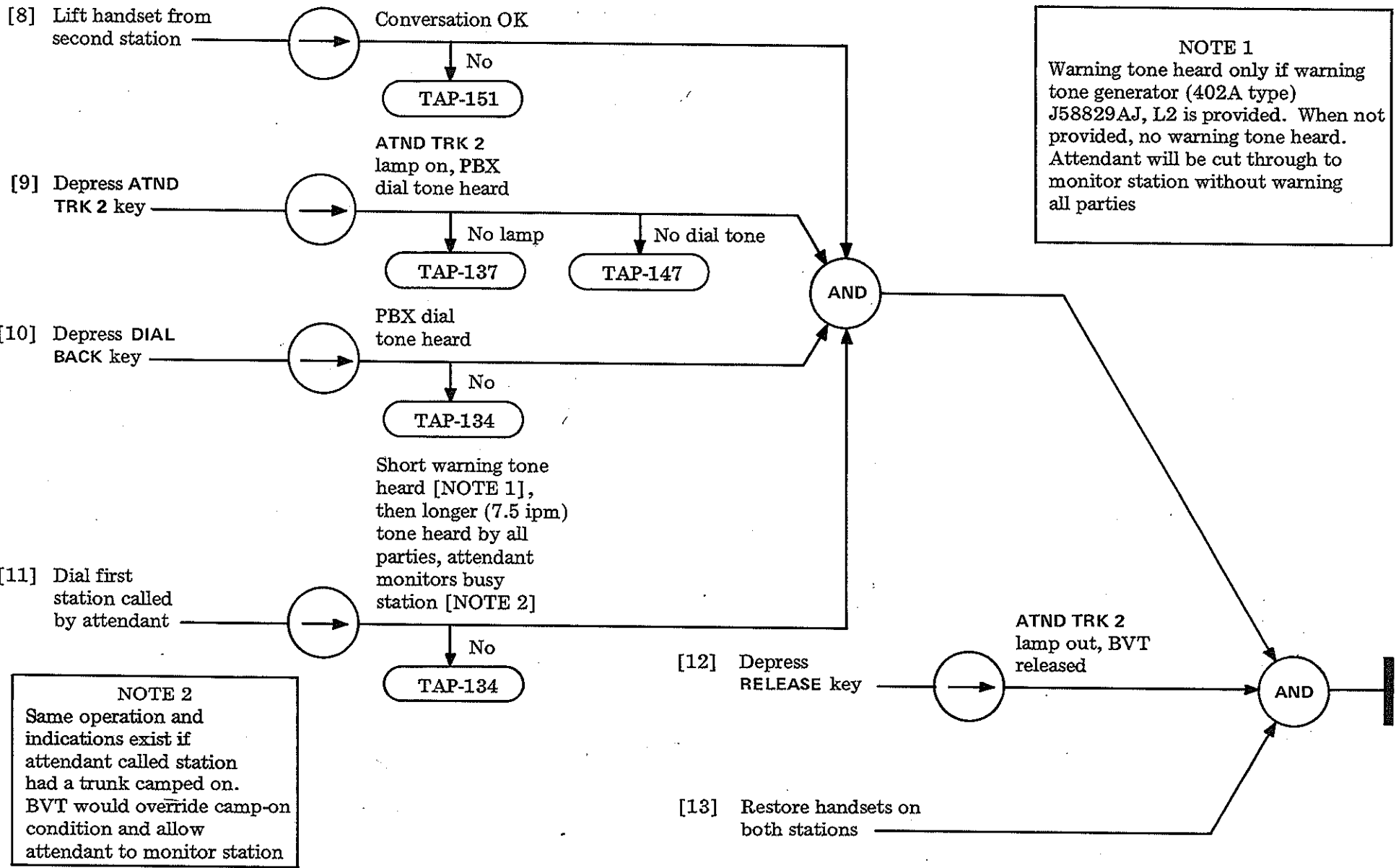
NOTE 2
On a system installation,
testing may be delayed until
all options and features
are installed.

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TEST BUSY VERIFICATION TRUNK (BVT) FEATURE

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NOTE 1
 Warning tone heard only if warning tone generator (402A type) J58829AJ, L2 is provided. When not provided, no warning tone heard. Attendant will be cut through to monitor station without warning all parties

NOTE 2
 Same operation and indications exist if attendant called station had a trunk camped on. BVT would override camp-on condition and allow attendant to monitor station

TEST BUSY VERIFICATION TRUNK (BVT) FEATURE

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[1] Mount external 26-plate apparatus cabinet ED-92185-01 Group 70 or equivalent

[2] Unpack and mount code call equipment [NOTE 1] provided per FIG. 1 in apparatus cabinet

AND

[3] Place a 16-pair or equivalent inside wiring cable from external code call apparatus cabinet to slide 2, position N of PBX cabinet 1 [NOTE 2] and connect to terminals per TABLE B [NOTE 3]

NOTE 1
TABLE A provides list of code call equipment available which may be provided with the 756A PBX code call feature

[4] Is TOUCH-TONE® (TT) calling required for code call feature

Yes

[5] Mount TOUCH-TONE equipment [TABLE A] provided above code call equipment in apparatus cabinet

No

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Page 5

NOTE 2
When placing cable, care must be taken not to loosen crown connectors. As cable is placed in canvas sleeve on slide 2, leave loop long enough to pull slide 2 open. Follow cable run down rear of slide 2 to position N and tie cable to wire form as needed

NOTE 3
This procedure uses STA 80 (calling end) and STA 21 (answering end) for code call terminal 1. When terminal 2 is used, this procedure uses STA 82 (calling end) and STA 23 (answering end)

TABLE A				
J-CODE	LIST NUMBER	CIRCUIT	USE	NUMBER REQUIRED
J58822B-2	1	Code	3-digit dialing arranged for 5 cycles of code call signal with 1-second cycle	1 of L1, L8, L9, or L10
J58822B-2	9	Code	Same as for L1 with only 3 cycles	
J58822B-2	8	Code	2-digit dialing arranged for 5 cycles of code call signal with 1-second cycle	
J58822B-2	10	Code	Same as for L8 with only 3 cycles	
J58822B-2	2	Code	Required if signals on 2-second cycles*	None or 1 of L2 or L7
J58822B-2	7	Code	Required if signals on ½-second cycles*	
J58822B-2	4	Terminal	Add one jack circuit	2 of L4 or L5
J58822B-2	5	Terminal	Without jack circuit	
J58822B-2	11	Rotary dial	Required for rotary dial with dial tone†	1
J58822B-2	14	TT only	Required in addition to L1 or 9 when TT provided with 3-digit code‡	1 of L14 or L15
J58822B-2	15	TT only	Required in addition to L8 or 10 when TT provided with 2-digit code‡	

TABLE A (Cont)				
J-CODE	LIST NUMBER	CIRCUIT	USE	NUMBER REQUIRED
J58822B-2	16	TT converter	Required in addition to L14 or 15.§	1
J99289A-3	L1	TT REC MTG	TT receiver mounting shelf	1
J99289B-3	L1	TT REC	TT receiver	1
* One-second cycle is standard, L2 or L7 required in addition to L1, L8, L9 or L10, refer to SD-66610 for wiring L2 or L7. † Required in addition to L1, L8, L9, or L10. and wired according to SD-66610 ‡ Required with type C1 TOUCH-TONE receiver § Required with type A3 TOUCH-TONE receiver				

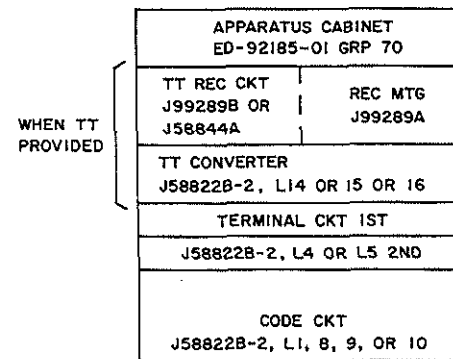


FIG. 1

TABLE B

CONNECT		FROM				TO					
16-PAIR CABLE		CODE CALL CKTS				SLIDE 2 TS (POSITIONS M THRU Q)					
PAIR	COLOR	1st TERMINAL TS-A (TOP) PCHG	2nd TERMINAL TS-A (TOP) PCHG	CODE TS (BOT) PCHG	LEAD	TS-A	TS-B	TS-C	LINE	MISC	
1T	W-BL	1 ○			T2						
1R	BL-W	2 ○			R2		○ T2-80				
	W-O	3 ○			S2		○ R2-80				
	O-W	9 ○			S		○ S2-80				
	W-G	7 ○			T1					○ S-21	
	G-W	8 ○			R1				○ T1-21		
	W-BR	10 ○			S1A				○ R1-21		
	BR-W	13 ○			48V					○ S1A-21	
5T	W-S	16 ○			GRD	○ BAT T80					
5R	S-W				GRD	○ GRD T80					
	R-BL		1 ○		T2			○ T2-82			
	BL-R		2 ○		R2			○ R2-82			
	R-O		3 ○		S2			○ S2-82			
	O-R		9 ○		S					○ S-23	
	R-G		7 ○		T1					○ T1-23	
	G-R		8 ○		R1					○ R1-23	
	R-BR		10 ○	S1A					○ S1A-23		
	BR-R		13 ○	48V	○ BAT T82						
10T	R-S		16 ○	GRD	○ GRD T82						
10R	S-R			DT						○ 53	
	BK-BL		3 ○	48V	○ BAT T81						
	BL-BK		6 ○	GRD	○ GRD T81						
	BK-O		7 ○	48V	○ BAT T83						
	O-BK		10 ○	GRD	○ GRD T83						
13T	BK-G										
13R	G-BK										

Pairs 14 thru 16 spare

INSTALL AND TEST 3A CODE CALL EQUIPMENT (SD-66610)

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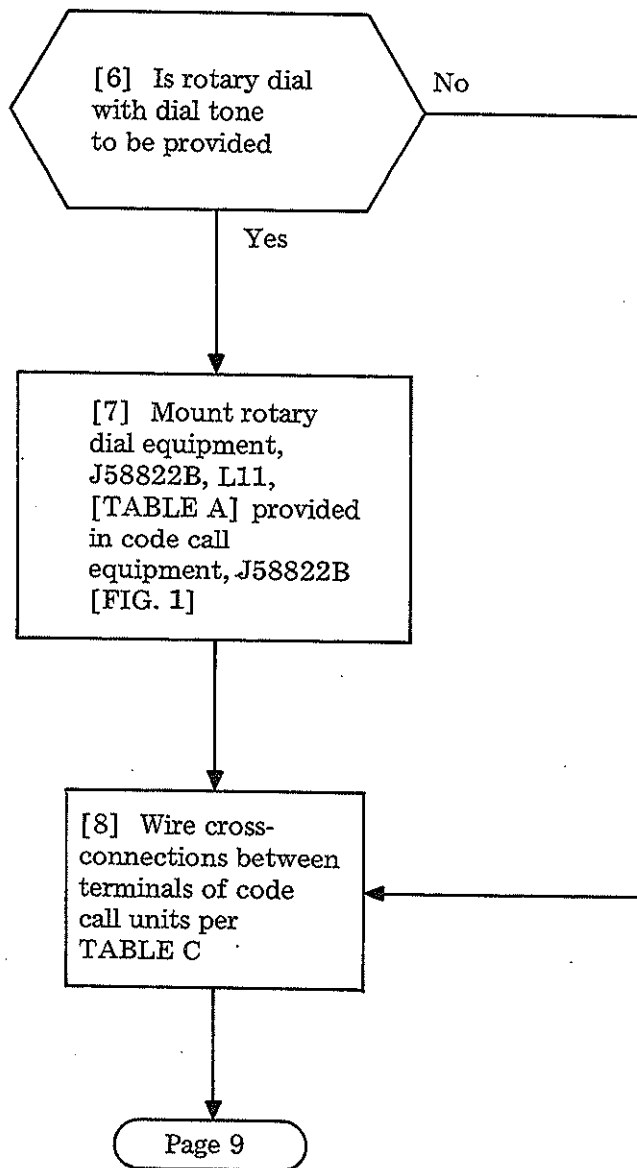


TABLE C			
CONNECT			
FROM		TO	
1ST TERM CKT	LEAD	2ND TERM CKT	CODE CKT
TS-A (BOT) TERM		TS-A (BOT) TERM	TS (TOP) TERM
1	CH	4	
2	CH	3	
3	CH	2	
4	CH	1	
9	CH	10	
10	CH	9	
11	H	11	1
12	TN	12	4
13	L	13	10
14	SL	14	9
15	P	15	3
16	K	16	2

[9] Remove strap between terminals 7 to 12 from TS-A (top) on terminal circuits 1 and 2

[10] Wire cross-connections from 1st terminal circuit to 2nd terminal and code circuits per TABLE D

[11] Wire cross-connections between terminals of TT converter to terminals of code, 1st and 2nd terminal, and TT receiver circuits per TABLE E



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TABLE D			
CONNECT			
FROM		TO	
1ST TERM CKT	LEAD	2ND TERM CKT	CODE CKT
TS-A (BOT) TERM.		TS-A (BOT) TERM	TS (TOP) TERM
1	CH	4	
2	CH	3	
3	CH	2	
4	CH	1	
9	CH	10	
10	CH	9	
12	TN	12	4
13	L	13	10
14	SL	14	9
15	P	15	
16	K	16	2

TABLE E										
CONNECT FROM			TO							
TT CONVERTER J58822B-2, L14 OR L15 WITH L16			CODE CKT			1ST TERMINAL CKT		2ND TERMINAL CKT		TT RECEIVER J99289A SHELF
TS-A TERM	TS-B TERM	LEAD	TS-A (TOP) TERM	TS-A (BOT) TERM	TS-C TERM	TS (TOP) TERM	TS (BOT) TERM	TS (TOP) TERM	TS (BOT) TERM	TS-G TERM
58	○	A1			○					
48	○	A2			○					
38	○	A3			○					
28	○	A4			○					
18	○	A5			○					
57	○	B1			○					
47	○	B2			○					
37	○	B3			○					
27	○	B4			○					
17	○	B5			○					
56	○	C1			○					
46	○	C2			○					
36	○	C3			○					
26	○	C4			○					
16	○	C5			○					
55	○	LG4*			○					○ 8
45	○	LG3*								○ 7
35	○	LG2*								○ 6
25	○	LG1*								○ 5
54	○	STR*								○ 10
44	○	HG3*								○ 4
34	○	HG2*								○ 3
24	○	HG1*								○ 2
41	○ 31	BAT*		○ 7						○ 15
11	○ 11	GRD*		○ 10						○ 9

*Required when type A3 TOUCH-TONE receiver, J992898B, List 1, is installed

INSTALL AND TEST 3A CODE CALL EQUIPMENT (SD-66610)

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TABLE E (cont)

CONNECT FROM			TO							
TT CONVERTER J58822B-2, L14 OR L15 WITH L16			CODE CKT			1ST TERMINAL CKT		2ND TERMINAL CKT		TT RECEIVER J99289A SHELF
TS-A TERM	TS-B TERM	LEAD	TS-A (TOP) TERM	TS-A (BOT) TERM	TS-C TERM	TS (TOP) TERM	TS (BOT) TERM	TS (TOP) TERM	TS (BOT) TERM	TS-G TERM
	16 ○	P1								
	18 ○	H1							○ 15	
	28 ○	SH-2							○ 11	
	38 ○	SH-1				○ 12				
	48 ○	R3				○ 7				
	58 ○	T3				○ 5				
	13 ○	CC				○ 4				
	15 ○	4								
	25 ○	2								
	35 ○	I								
	45 ○	P	○ 4							
	55 ○	H	○ 3							
	26 ○	DP-1	○ 1							
	36 ○	DP								
	46 ○	DC-1								
	56 ○	DC								
	42 ○	R								
	52 ○	T								○ 18
	17 ○	H2								○ 28
	27 ○	SH-2								○ 38
	37 ○	SH-1								○ 48
	47 ○	R3								
	57 ○	T3								
										○ 13
										○ 12
									○ 11	
									○ 12	
									○ 7	
									○ 5	
									○ 4	

INSTALL AND TEST 3A CODE CALL EQUIPMENT (SD-66610)

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TABLE E (Cont)										
CONNECT FROM			TO							
TT CONVERTER J58822B-2, L14 OR L15 WITH L16			CODE CKT			1ST TERMINAL CKT		2ND TERMINAL CKT		TT RECEIVER J58844A
TS-A † TERM	TS-B † TERM	LEAD †	TS-A (TOP) TERM	TS-A (BOT) TERM	TS-C TERM	TS (TOP) TERM	TS (BOT) TERM	TS (TOP) TERM	TS (BOT) TERM	PLUS † TERM
	54 ○	D1								○ 4
	44 ○	D2								○ 16
	34 ○	D3								○ 9
	24 ○	D4								○ 12
	14 ○	D5								○ 8
	53 ○	D6								○ 15
	43 ○	D7								○ 18
	33 ○	D8								○ 20
	23 ○	D9								○ 21
	13 ○	D0								○ 13
	32 ○	STR								○ 10
	22 ○	A								○ 3
	22 ○	B								○ 6
	12 ○	P								○ 19
	31 ○									7
41 ○	11 ○									○ 7
										○ 10
11 ○										○ 17

† Required when C1 TOUCH-TONE receiver, J58844A, LIST 1, is installed. Leads are terminated on a KS-14671, L1, plug and connected to the N connector, KS-14672, L1, on the J58844A receiver

[12] Refer to NOTES 4 and 5 and remove straps on MISC TS of dial pulse registers 0 and 1 (slide 6, positions B and E)

[13] Wire straps 13 to 14, 24 to 25, and 15 to 25 on MISC TS of dial pulse registers 0 and 1 (slide 6, positions B and E)

TABLE F	
WIRE STRAPS	
FROM	TO
CALLING END TS-D	ANSWERING END TS-D
HM-2 T80	HM-3 T81
IT-1 T80	IT-2 T81
HM-2 T82	HM-3 T83
IT-1 T82	IT-2 T83
TS-B	TS-B
S2 T80	S2 T81
S2 T82	S2 T83

NOTE 4
Straps to be removed may be wired in either of the following arrangements:

In either case, both straps are to be removed

[14] Remove straps T to T1-1 and R to R1-1 on TS-B (slide 2, positions N and P) for each universal line circuit T80, T81, T82, and T83.

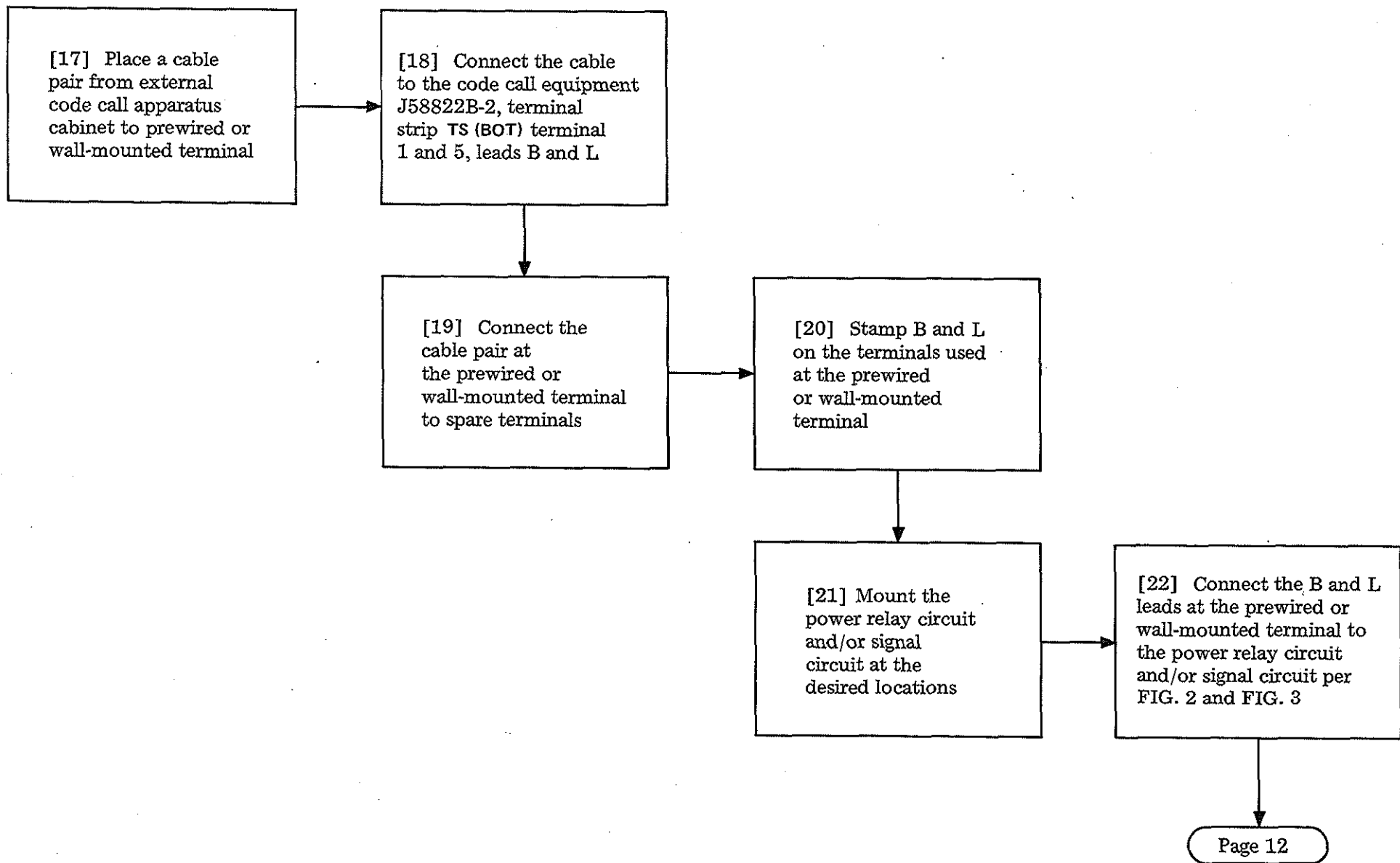
NOTE 5
When other optional features using universal line circuits have been installed, steps 12 and 13 should have been completed.

[15] Wire straps at TS-B and TS-D on slide 2, positions N and Q per TABLE F

[16] Disconnect the winding of the L relay (20 through 29) associated with the line circuit assigned to the answering end by placing a 550B tool in the 1B, 2B or 4, 5, and 1T, 2T, or 2, 3 contacts of the associated LHM (20 through 29) off-normal relay springs

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POWER RELAY CIRCUIT

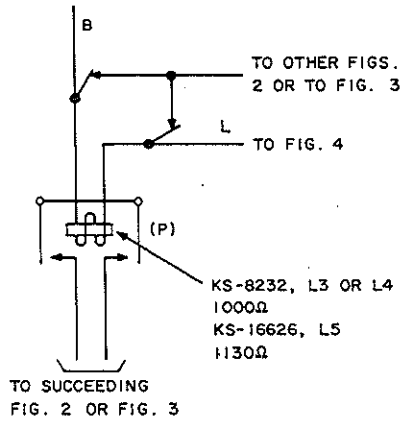


FIG. 2

SIGNAL CIRCUIT

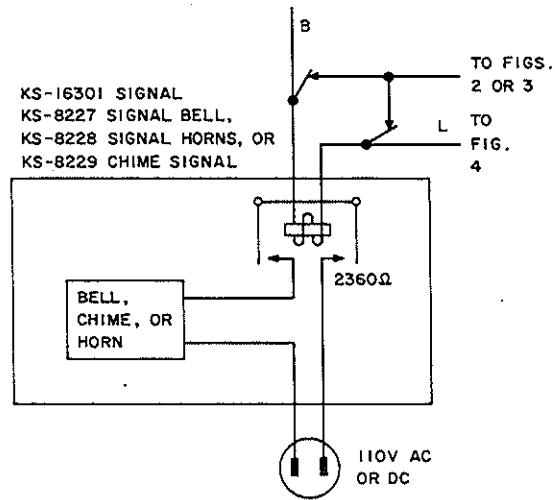


FIG. 3

BATTERY SUPPLY CKT

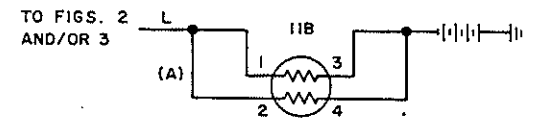


FIG. 4

INSTALL AND TEST 3A CODE CALL EQUIPMENT (SD-66610)

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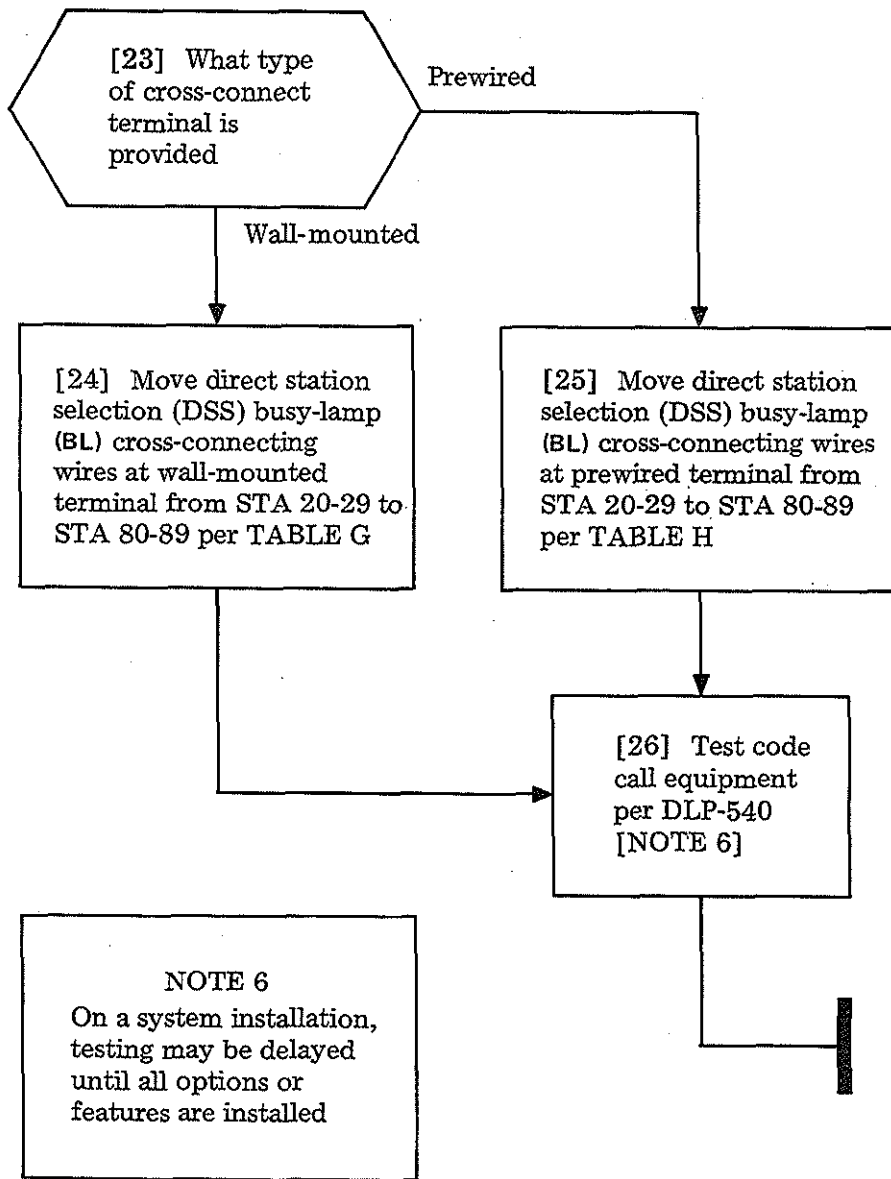


TABLE G

WALL TERMINAL

FROM				TO			
	COLOR	LEAD	TERM		COLOR	LEAD	TERM
G-W BINDER BLOCK A10	Y-BL	BL21	T16	BR-W BINDER BLOCK B10	Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
	S-Y	BL28	R20		S-V	BL88	R25

TABLE H

PREWIRED TERMINAL

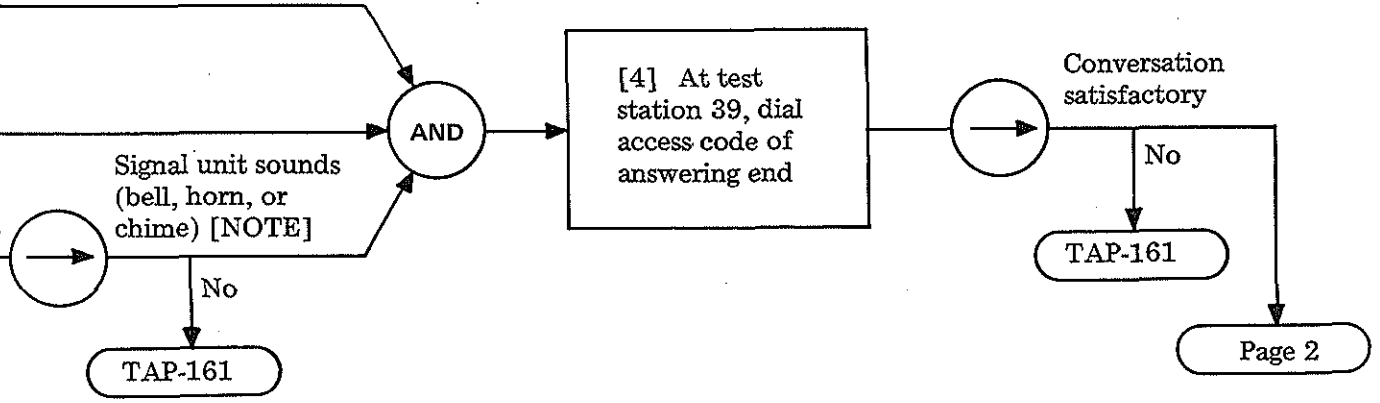
FROM				TO			
	COLOR	LEAD	TERM		COLOR	LEAD	TERM
G-W BINDER BLOCK B5	Y-BL	BL21	T16	BR-W BINDER BLOCK B6	V-BL	BL81	T21
	BL-Y	BL20	R16		BL-V	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
	S-Y	BL28	R20		S-V	BL88	R25

NOTE
 For 2- or 3-digit code, signaling may be 5 cycles or 3 cycles with 1-, 2-, or 1/2-second cycle. Check wiring options in DLP-539 to determine correct sound

[1] Connect dial hand test set or 1500-type telephone (if TOUCH-TONE®) T and R leads of first terminal circuit (J58822B-2, L4 or L5) TS-A, terminals 7 and 8

[2] Dial access code of code call feature

[3] Dial 2- or 3-digit code signal as provided

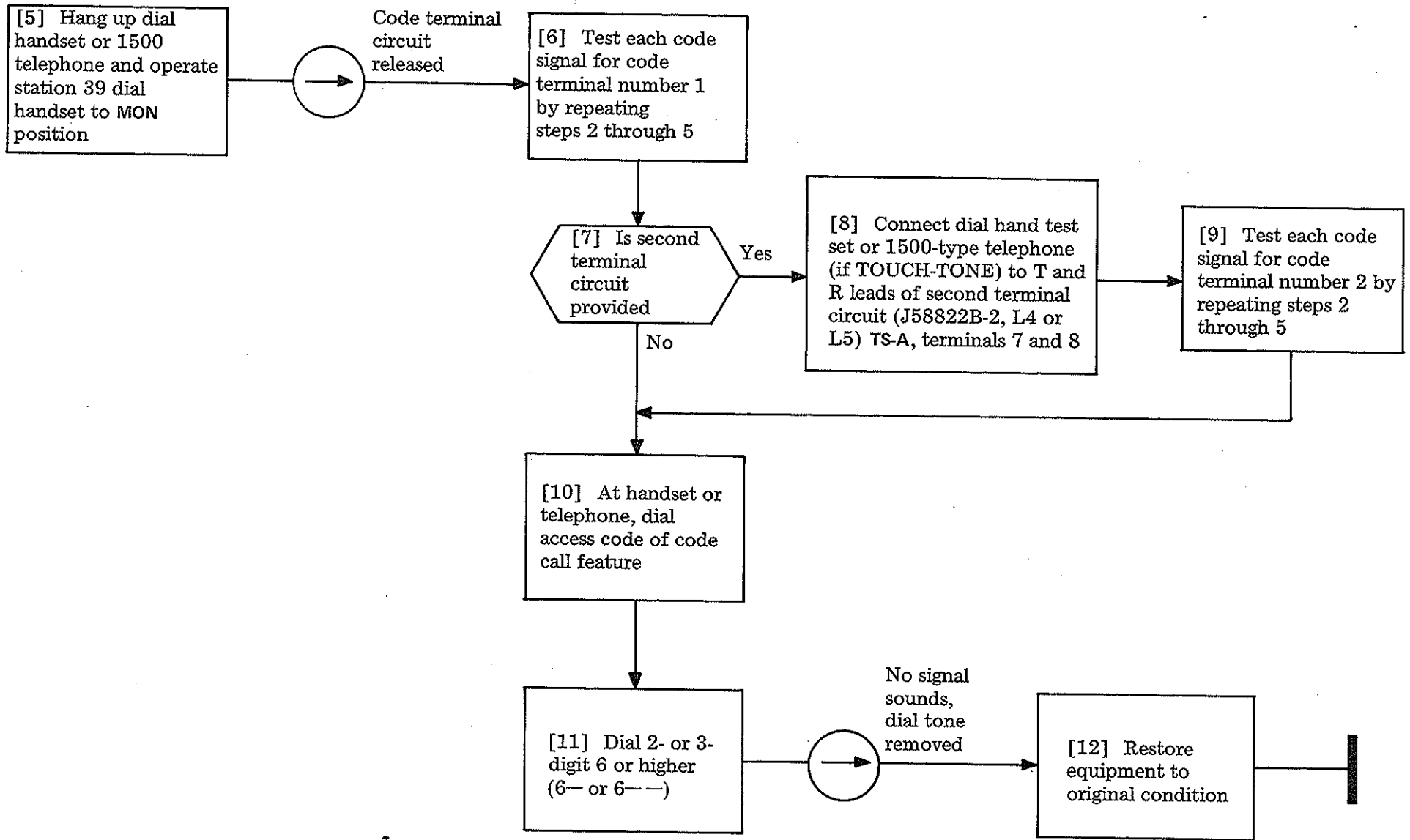


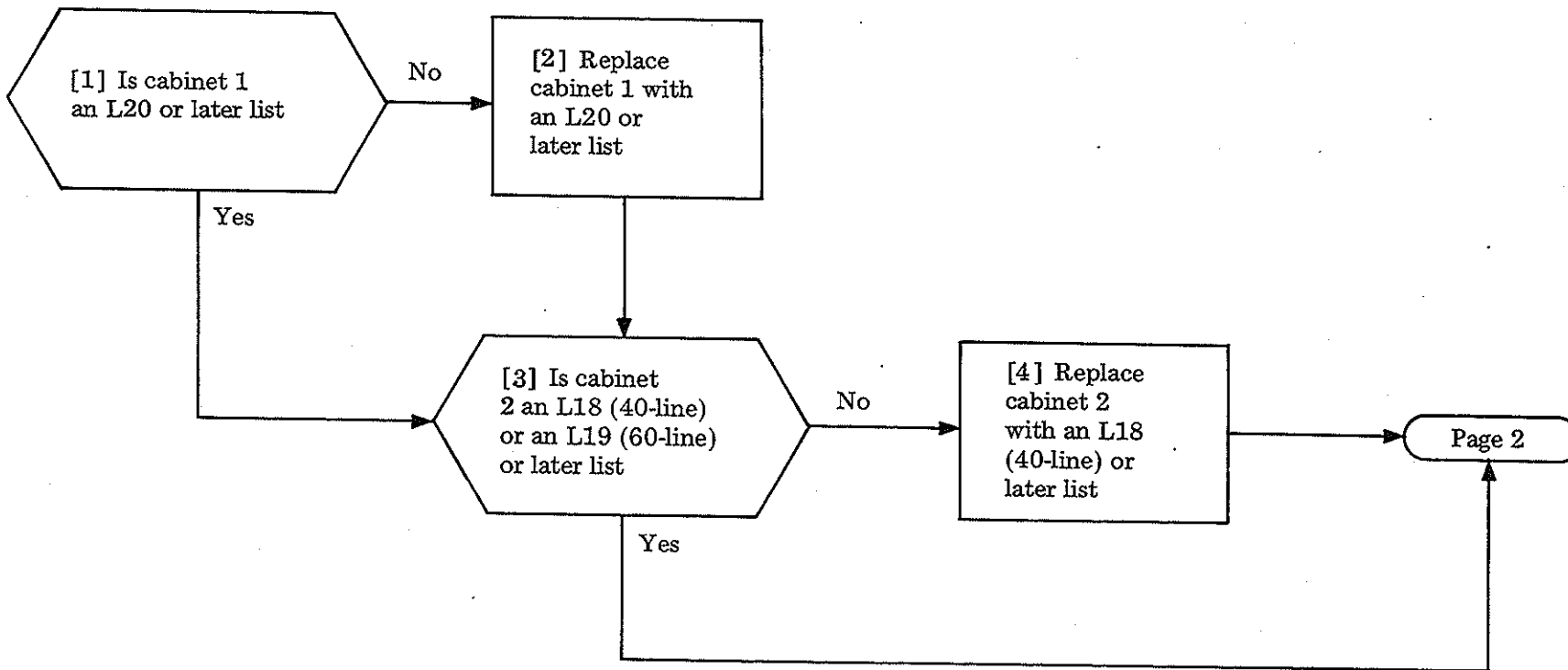
Signal unit sounds (bell, horn, or chime) [NOTE]
 No
 TAP-161

[4] At test station 39, dial access code of answering end

Conversation satisfactory
 No
 TAP-161
 Page 2

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[5] Unpack and mount 16C type or equivalent apparatus cabinet on wall

[6] Unpack and mount J58829AA, L1 auxiliary register relay unit on top mounting plate of apparatus cabinet

[7] Unpack and mount J58829AB, L1 auxiliary station relay unit(s) directly below register relay unit in apparatus cabinet [NOTE 1]

[8] Stamp the circuit numbers on each station relay unit, J58829AB, 0-3, 4-7, etc, under the SD number [FIG. 1]

[9] Stamp the SC and K relays for each circuit with station number assigned to it [FIG. 2]

AND

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NOTE 1
J58829AB, L1 auxiliary station relay unit will serve 1 to 4 stations with each station able to DSS up to ten other stations

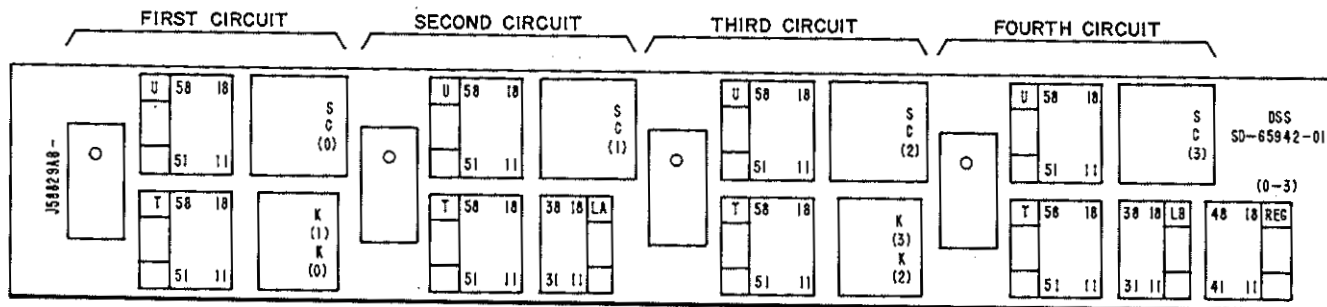


FIG. 1 – Auxiliary Station Relay Unit J58829AB

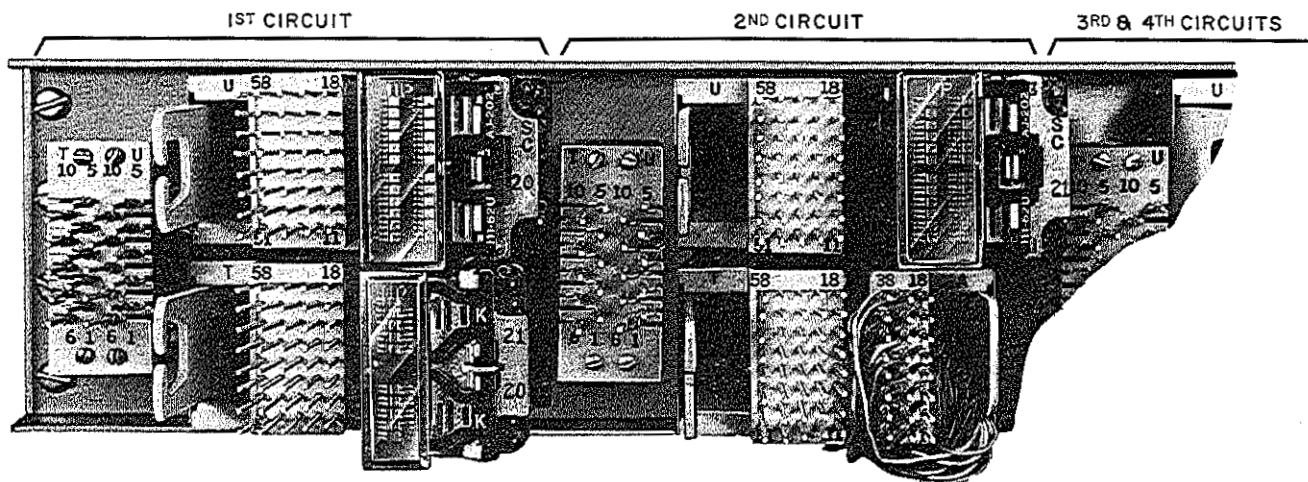


FIG. 2 – Part of Auxiliary Station Relay Unit Equipped with KS-14554 Plugs Showing 1st and 2nd Circuits Assigned to Stations 20 and 21

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[10] Unpack and plug J58829AB, L2 diode (tens and units) assembly (KS-14554, L1 plug) into proper circuit jack [FIG. 1 and NOTE 2]

NOTE 2
 One J58829AB, L2 diode assembly for each station circuit used per FIG. 1

[11] Place 50-pair supplementary house and feeder cable J58829AA, L2 from crown of cabinet 2 to auxiliary relay unit in apparatus cabinet

[12] Mate J58829AA, L2 cable plugs to crown connectors in cabinet 2 per FIG. 3

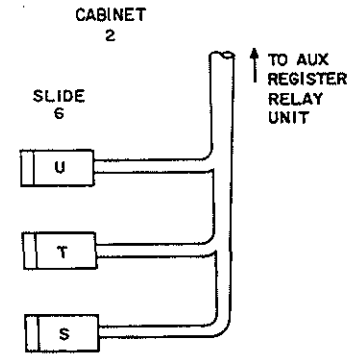
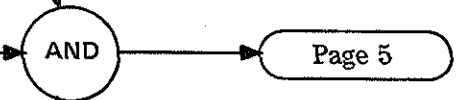


FIG. 3

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[13] Connect stub end of J58829AA, L2 cable to TS-A0 and TS-A1 on auxiliary register relay unit in apparatus cabinet per TABLE A [NOTE 3, FIG. 4]

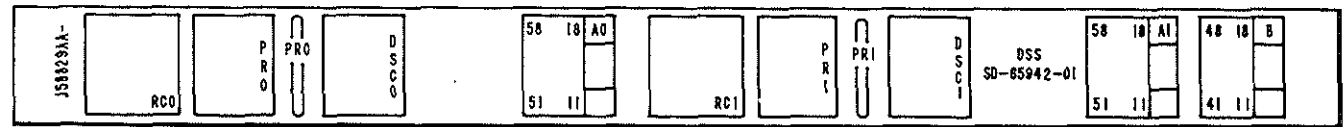


FIG. 4 - Auxiliary Register Relay Unit J58829AA

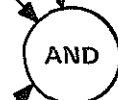
[14] Place a 6-pair inside wiring cable from cross-connect terminal to auxiliary station relay unit in apparatus cabinet

[15] Connect 6-pair cable at cross-connect terminal to T and R leads of station(s) controlling DSS and to REG TS on auxiliary station relay unit per TABLE B

[16] Place 12-pair cable from auxiliary station relay unit to each station arranged for DSS

[17] Connect 12-pair cable to LA-TS and LB-TS on auxiliary station relay unit as required per TABLE C

[18] Install 549-type key [NOTE 4] at station(s) arranged for DSS



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NOTE 3
When more than 4 stations are arranged for DSS, multiple TABLE A connections to each succeeding auxiliary register relay unit

NOTE 4
549-type keys are non-locking and are used to DSS from designated station. Nonlocking keys on key set or call director could be used

TABLE A									
CONNECT			TO		CONNECT			TO	
50-PAIR CABLE J58829AA, L2			AUX REG REL UNIT		50-PAIR CABLE J58829AA, L2			AUX REG REL UNIT	
BDR AND PAIR	COLOR	LEAD	TS- A0	TS- A1	BDR AND PAIR	COLOR	LEAD	TS- A0	TS- A1
1T	W-BL	T0	27		16T	Y-BL	U1		35
1R	BL-W	T2	37		16R	BL-Y	U2		45
	W-O	T3	47			Y-O	U3		55
	O-W	T4	57			O-Y	U4		16
	W-G	T5	18			Y-G	U5		26
	G-W	T6	28			G-Y	U6		36
	W-BR	T7	38			Y-BR	U7		46
	BR-W	T8	48			BR-Y	U8		56
5T	W-S	T9	58		20T	Y-S	U9		17
5R	S-W	U0	25		20R	S-Y			
	R-BL	U1	35			V-BL	RG	31	
	BL-R	U2	45			BL-V	RO	44	
	R-O	U3	55			V-O	RI	34	
	O-R	U4	16			O-V	RC	24	
	R-G	U5	26			V-G	RB	11	
	G-R	U6	36			G-V	UD1	54	
	R-BR	U7	46			V-BR	UD2	15	
	BR-R	U8	56			BR-V	PR	14	
10T	R-S	U9	17		25T	V-S	GRD		32
10R	S-R				25R	S-V	-48V		12
	BK-BL	T0	27		26T	W-BL	+48V	51	
	BL-BK	T2	37		26R	BL-W			
	BK-O	T3	47			W-O	RG	31	
	O-BK	T4	57			O-W	RO	44	
	BK-G	T5	18			W-G	RI	34	
	G-BK	T6	28			G-W	RC	24	
	BK-BR	T7	38			W-BR	RB	11	
	BR-BK	T8	48			BR-W	UD1	54	
15T	BK-S	T9	58		30T	W-S	UD2		15
15R	S-BK	U0	25		30R	S-W	PR		14

TABLE B					
TO		CONNECT		TO	
STA ARRANGED FOR DSS		6-PAIR CABLE		AUX STA RELAY UNIT	
CROSS-CONNECT TERM		PAIR	COLOR	REG TS	
STATION	LEAD			CIRCUIT	PCHG
1st	T	1T	W-BL	1st	42
	R	1R	BL-W		41
2nd	T	2T	W-O	2nd	44
	R	2R	O-W		43
3rd	T	3T	W-G	3rd	46
	R	3R	G-W		45
4th	T	4T	W-BR	4th	48
	R	4R	BR-W		47

TABLE C						
TO (AS REQUIRED)				CONNECT		TO
AUX STA RELAY UNIT				12-PR CABLE		TEL SET(S) AND 549 KEY(S) 1-4 LEAD
LA TS-TERM		LB TS-TERM		PAIR	COLOR	
CKT-1	CKT-2	CKT-3	CKT-4			
11	15	11	15	1T	W-BL	K1
21	25	21	25	1R	BL-W	K2
31	35	31	35		W-O	K3
12	16	12	16		O-W	K4
22	26	22	26		W-G	K5
32	36	32	36		G-W	K6
13	17	13	17		W-BR	K7
23	27	23	27		BR-W	K8
33	37	33	37	5T	W-S	K9
14	18	14	18	5R	S-W	K10
24	28	24	28		R-BL	R
34	38	34	38		BL-R	T
LG-1	LG-2	LG-3	LG-4	7T	R-O	GRD

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INSTALL AND TEST DIRECT STATION SELECTION (DSS) BY STATION EQUIPMENT (SD-65942)

[19] Connect 12-pair cable to station set and DSS keys at station per TABLE C

[20] Wire cross-connect straps from TS-B and TS-A1 of auxiliary register relay unit to REG-TS of auxiliary station relay unit per TABLE D [NOTE 5]

[21] Wire straps from KS-14554 plug to TS-T and TS-U as required per FIG. 5

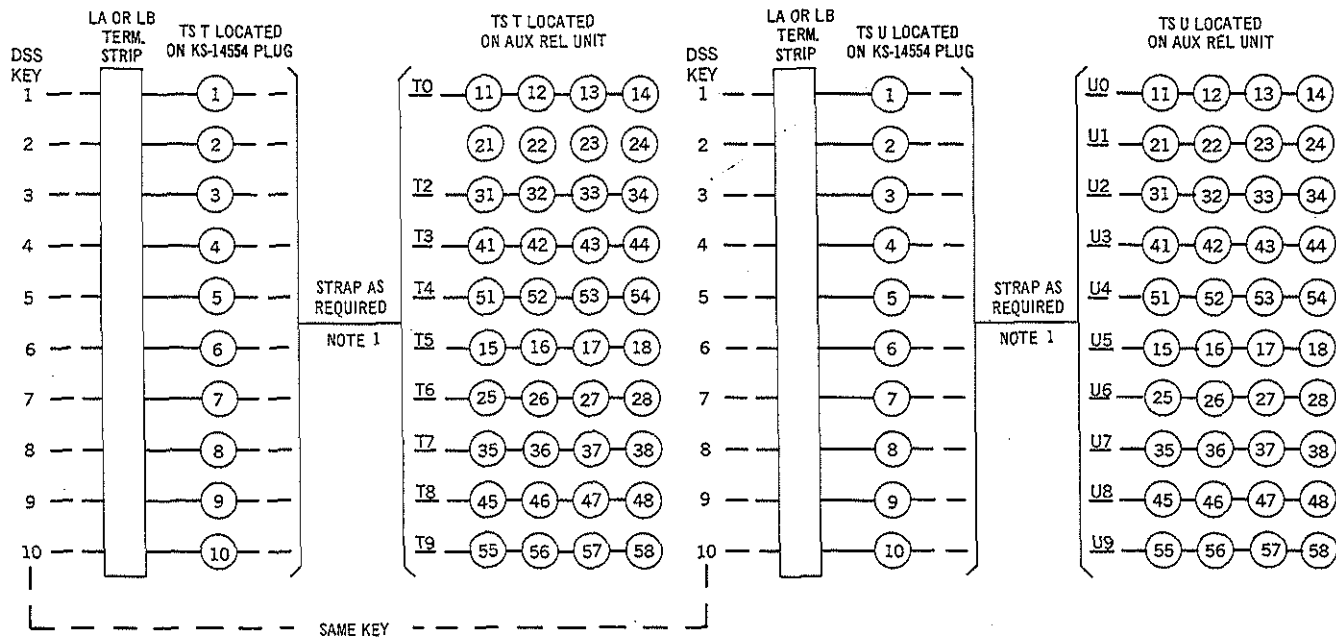
[22] Remove straps from terminal 31 to 32 and 33 to 34 on MISC TS of dial pulse registers 0 and 1 (slide 6B and E)

[23] See FIG. 6 for a typical wiring arrangement

[24] Insert spare fuse (70P type) and fuse cap in fuse holder (+48V) marked DSS (slide 1Z)

AND

[25] Test DSS by station equipment per DLP-542 [NOTE 6]



NOTE 1: LEAVE SUFFICIENT SLACK TO PERMIT PLUG REMOVAL FOR DIODE REPLACEMENT.

FIG. 5 — Connections Between K-14554 Plug (TST and TSU) to TST and TSU on Auxiliary Relay Unit

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NOTE 5
 Where additional auxiliary station relay units are required, the leads in TABLE D should be connected to the succeeding station relay unit

NOTE 6
 On a system installation, testing may be delayed until all options or features are installed

TABLE D		
FROM	CONNECT	TO
AUX REG REL UNIT	LEAD	AUX STA REL UNIT
TS-B TERM		REG-TS TERM
	K	
12 ○	U0	○ 12
13 ○	U1	○ 13
14 ○	U2	○ 14
15 ○	U3	○ 15
16 ○	U4	○ 16
17 ○	U5	○ 17
18 ○	U6	○ 18
22 ○	U7	○ 22
23 ○	U8	○ 23
24 ○	U9	○ 24
25 ○	UD1	○ 25
26 ○	UD2	○ 26
27 ○	T0	○ 27
28 ○	T2	○ 28
31 ○	T3	○ 31
32 ○	T4	○ 32
33 ○	T5	○ 33
34 ○	T6	○ 34
35 ○	T7	○ 35
36 ○	T8	○ 36
37 ○	T9	○ 37
38 ○		○ 38
TS-A1		
	-48V (DSS)	
12 ○	GRD (DSS)	○ 11
32 ○		○ LG1 *

*LG term on rear of auxiliary station relay unit

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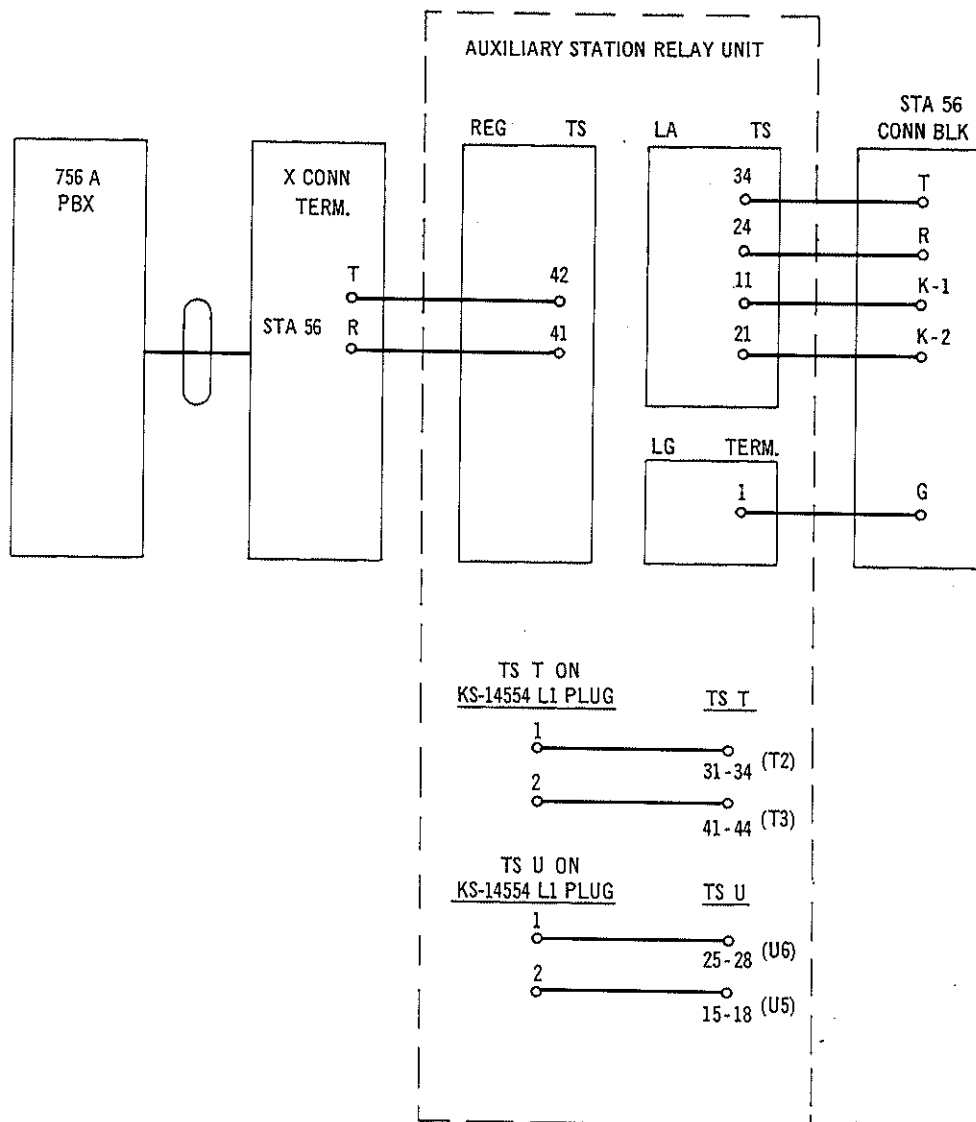
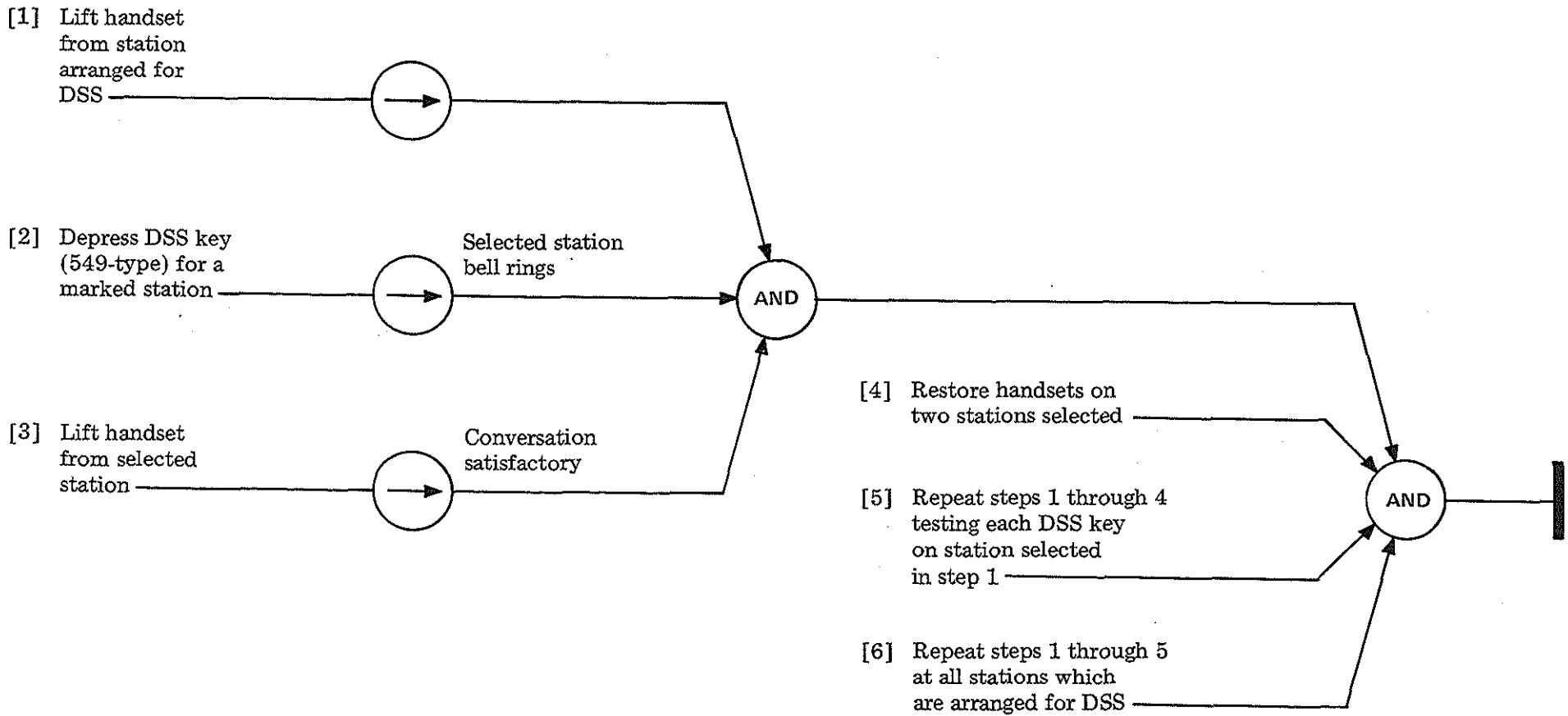
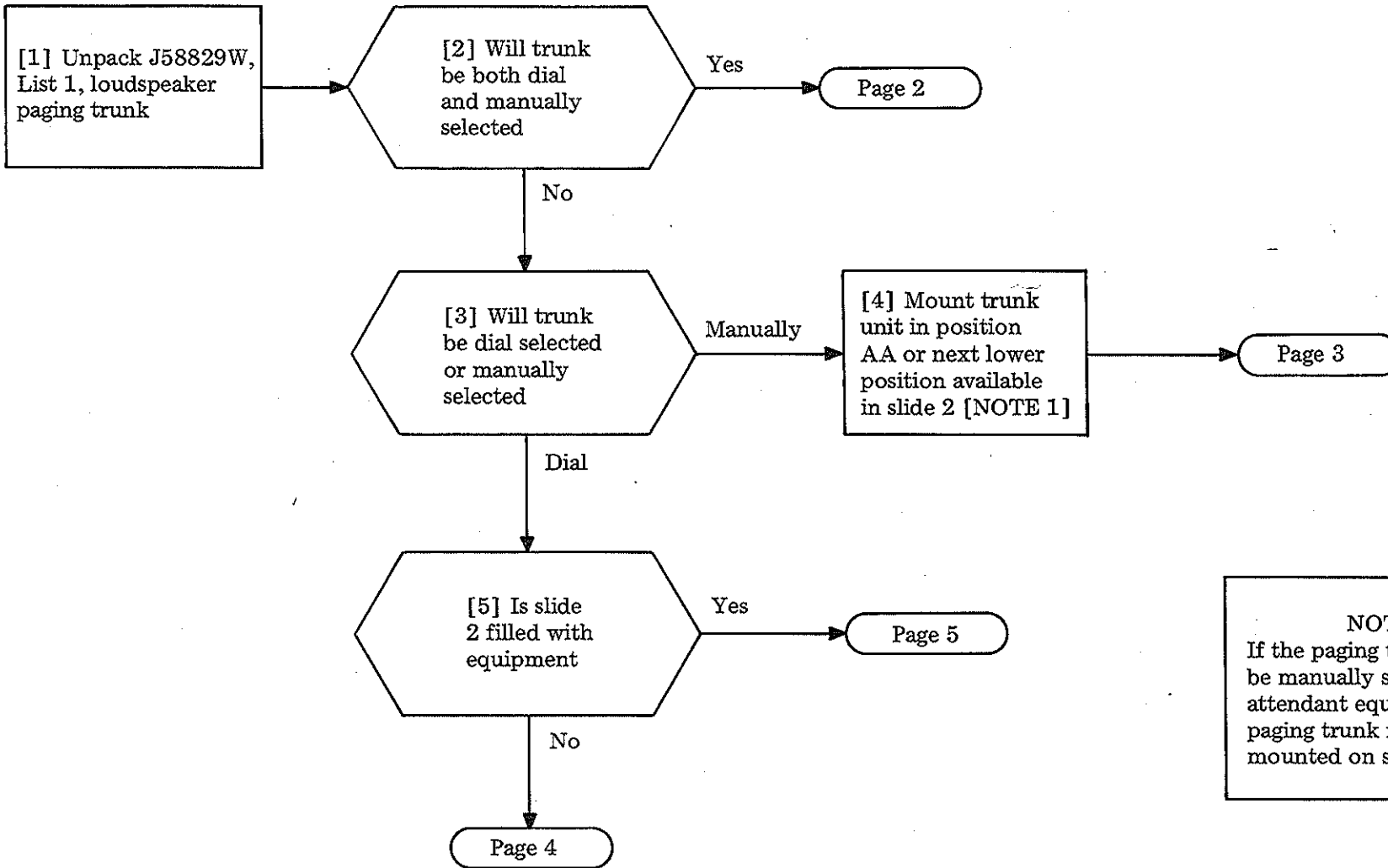


FIG. 6 – Typical Wiring Arrangement Showing Station 56 Assigned to the 1st DSS Circuit and Arranged to Direct Select Stations 26 and 35.



TEST DIRECT STATION SELECTION (DSS) BY STATIONS FEATURE

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NOTE 1
 If the paging trunk is to be manually selected at the attendant equipment, the paging trunk must be mounted on slide 2

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[6] Mount trunk unit in position AA or next lower position available in slide 2 [NOTE 1]

[7] Wire straps per TABLE A and E or F [NOTE 2]

[8] Remove straps per TABLE A

Page 3

TABLE A					
TERMINAL STRIP ON LSPK PAGING UNIT	TERMINAL STRIPS ON TIE TRUNK ADAPTER UNIT (SLIDE 2, L-P)				DIAL PULSE REG 0 AND 1 MISC TERMINAL STRIP
	A	B	D	LINE	
18 ○		○ R2 †			13 ○
17 ○		○ T2			14 ○
16 ○		○ S2			23 ○
32 ○				○ HM	24 ○
31 ○				○ IT *	15 ○
		○ S1	IT1 ○		25 ○
		○ S2	IT2 ○		
		○ T1-1	HM-1 ○		
		○ T	HM-2 ○		
		○ R1-1			
		○ R			

* Remove straps
 † Select assigned spare access code, 80 to 89, for strapping R2, T2, and S2

NOTE 2
 Universal line circuit must be renumbered from 20 to 29 series to access numbers 80 and 89 for paging trunk

[9] Place straps per TABLE B

[10] Place wire to paging amplifier from wall terminal block A4 pchg 27 and 28 or prewired block D1 pchg 22 and 23

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TABLE B						
TERMINAL STRIP ON LSPK PAGING TRK	TERMINAL STRIPS ON TIE TRUNK ADAPTER UNIT (SLIDE 2, L-P)			APPEARANCE AT CROSS-CONNECTING TERMINAL FOR 75-PR HOUSE AND FEEDER CABLE		
	A	MISC	LINE	COLOR CODE AND PUNCHING		
				WALL TERMINAL	PREWIRED TERMINAL	
38 ○	○ BAT			Block	Block	
36 ○	○ GRD			A4	D1	
		16		BK-BL 21	16	
35 ○		○		○	○	SL1 Keypad
34 ○		26		BL-BK 22	17	SL3 2nd console
		○		○	○	
33 ○		36		BK-O 23	18	SL2 1st console
		○		○	○	
		17		BK-G 25	20	
18 ○		○		○	○	R } Pickup key at keyset or console
17 ○		27		G-BK 26	21	T } ←
		○		○	○	
		37		BK-BR 27	22	
13 ○		○		○	○	R } ← Paging amplifier
11 ○		47		BR-BK 28	23	T } ←
		○		○	○	
COE4 26 ○		18		BK-S 29	24	
COE3 25 ○		28		S-BK 30	25	
COE2 24 ○		38		Y-BL 31	26	T } ← Customer-owned equipment*
23 ○		○		○	○	
COE1 22 ○	†	48		BL-Y 32	27	R } ←
		○		○	○	

*For connecting customer-owned tuners, tape player, etc, see SD-65741-01, Issue 9 or later
 † Strap if music is not required

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[11] Mount trunk unit in position AA or next lower position available in slide 2

[12] Wire straps per TABLE C [NOTE 3]

[13] Place wire to paging amplifier from wall terminal block A4 pchg 27 and 28 or prewired block D1 pchg 22 and 23

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NOTE 3
 Universal line circuit must be renumbered from 20 to 29 series to access numbers 80 to 89 for paging trunk

TABLE C

TERMINAL STRIP ON LSPK PAGING UNIT	TERMINAL STRIPS ON TIE TRUNK ADAPTER UNIT (SLIDE 2, L-P)					DIAL PULSE REG 0 AND 1 MISC TERMINAL STRIP	CROSS-CONNECTING TERMINAL	
	A	B	D	LINE	MISC		WALL-MOUNTED	PREWIRED
38 ○	○ BAT							
36 ○	○ GRD							
18 ○	○ R2							
17 ○	○ T2							
16 ○	○ S2							
32 ○								
31 ○								
							Block A4	Block D1
13 ○					37		BK-BR 27	22
11 ○					47		BR-BK 28	23
26 ○	COE4				18		BK-S 29	24
25 ○	COE3				28		S-BK 30	25
24 ○	COE2				38		Y-BL 31	26
23 ○								
22 ○	COE1				48		BL-Y 32	27

} Paging ampl
 } Cust-owned eqpt†

* Remove straps
 † For connecting customer-owned tuners, tape players, etc, see SD-65741-01, Issue 9 or later
 ‡ Strap if music is not required
 § Select assigned spare access code, 80 to 89, for strapping R2, T2, and S2

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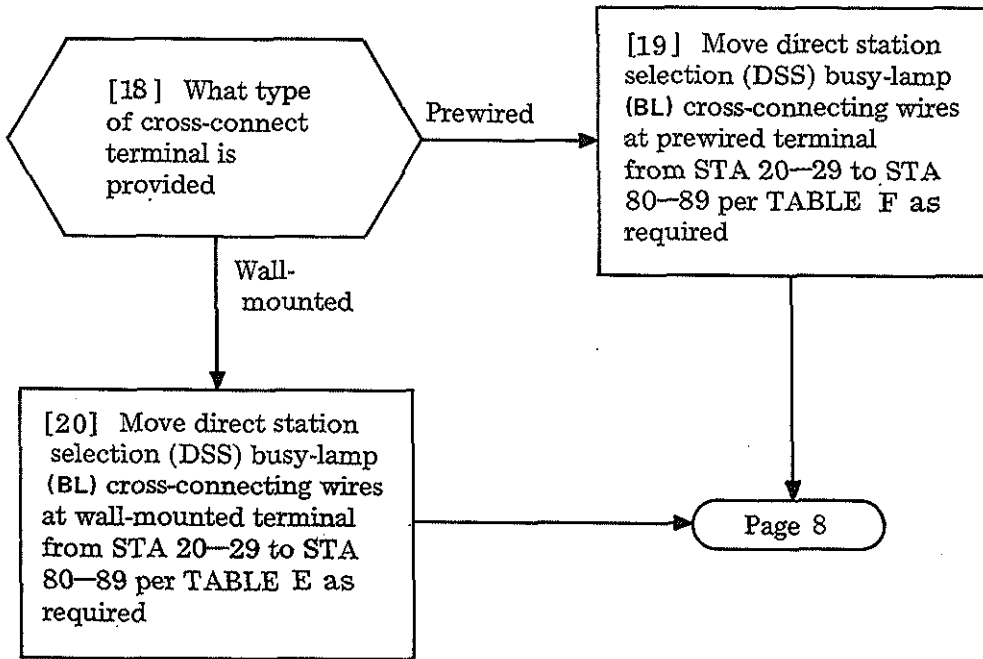


TABLE E

WALL TERMINAL

FROM				TO			
	COLOR	LEAD	TERM		COLOR	LEAD	TERM
G-W BINDER BLOCK A10	Y-BL	BL21	T16	BR-W BINDER BLOCK B10	Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
	S-Y	BL28	R20		S-V	BL88	R25

TABLE F

PREWIRED TERMINAL

FROM				TO			
	COLOR	LEAD	TERM		COLOR	LEAD	TERM
G-W BINDER BLOCK B5	Y-BL	BL21	T16	BR-W BINDER BLOCK B6	V-BL	BL81	T21
	BL-Y	BL20	R16		BL-V	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
	S-Y	BL28	R20		S-V	BL88	R25

[21] Make cross-connections for consoles and/or keysets per TABLE G [NOTE 5]

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EQUIPMENT	TABLE G										
	CROSS-CONNECT			FROM				TO			
	25 PAIR CABLE-KEYSET			WALL-MOUNTED		PREWIRED		WALL-MOUNTED		PREWIRED	
	100 PAIR A100C-CONSOLES										
6-BUTTON KEYSET	PAIR	COLOR	LEAD	BLOCK	TERM	BLOCK	TERM.	BLOCK	TERM	BLOCK	TERM
	9R	BR-R	L5	A5	8	D4	2	A4	21	D1	16
	8R	G-R	R					A4	25	D1	20
	8T	R-G	T					A4	26	D1	21
FIRST 4-TYPE CONSOLE	29R	BR-W	SL15	B9	8	B4	8	A4	23	D1	18
	21T	V-BL	T15	A9	41	B3	41	A4	26	D1	21
	21R	BL-V	R15	A9	42	B3	42	A4	25	D1	20
SECOND 4-TYPE CONSOLE	29R	BR-W	SL15	B11	8	B8	8	A4	22	D1	17
	21T	V-BL	T15	A11	41	B7	41	A4	26	D1	21
	21R	BL-V	R15	A11	42	B7	42	A4	25	D1	20

NOTE 5

These cross-connections are typical if leads are spare. If not, refer to DLP-503 and DLP-504 for possible additional spares

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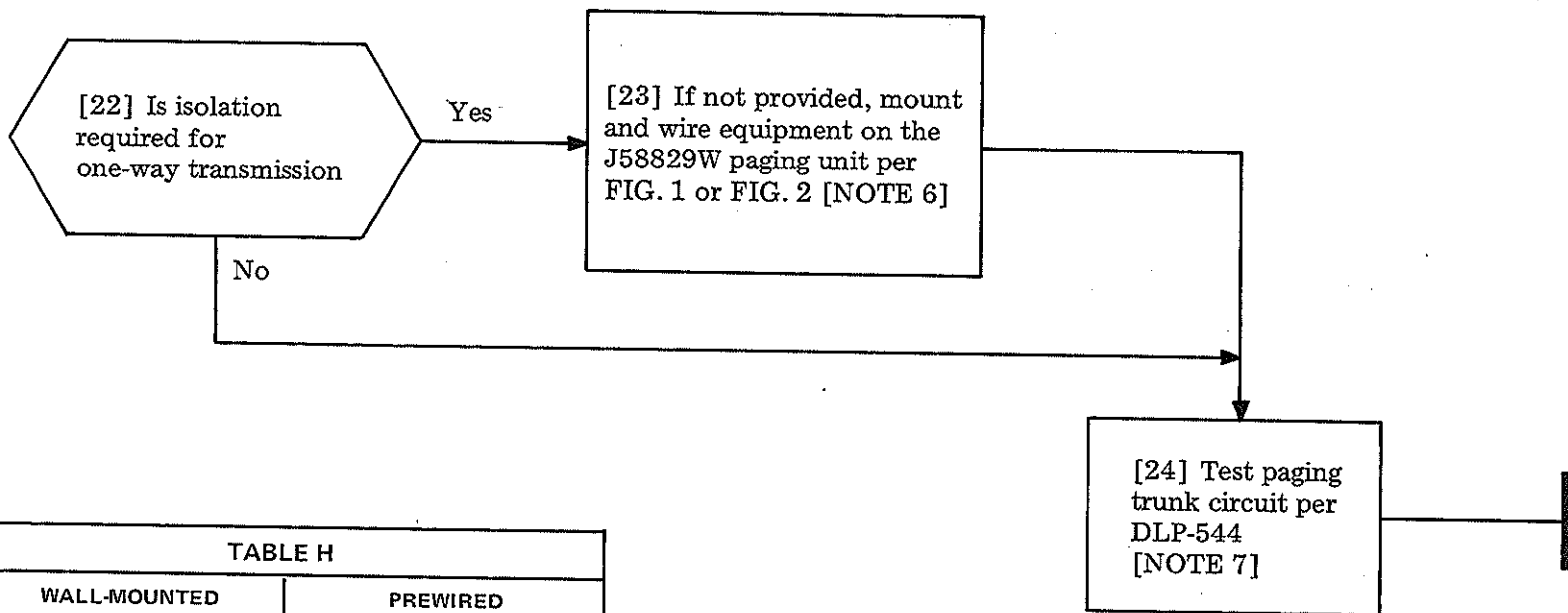


TABLE H

WALL-MOUNTED TERMINAL	PREWIRED TERMINAL SECTION
Block A3	Block A1
T 11 } R 12 } 85	T 11 } R 12 } 85
T 13 } R 14 } 86	T 13 } R 14 } 86
T 15 } R 16 } 87	T 15 } R 16 } 87
T 17 } R 18 } 88	T 17 } R 18 } 88
T 19 } R 20 } 89	T 19 } R 20 } 89

- NOTES**
6. When isolation amplifier is required, the J58829W, List 3 equipment is required to be mounted on the J58829W, List 1 wiring side.
 7. On a system installation, testing may be delayed until all options and features are installed

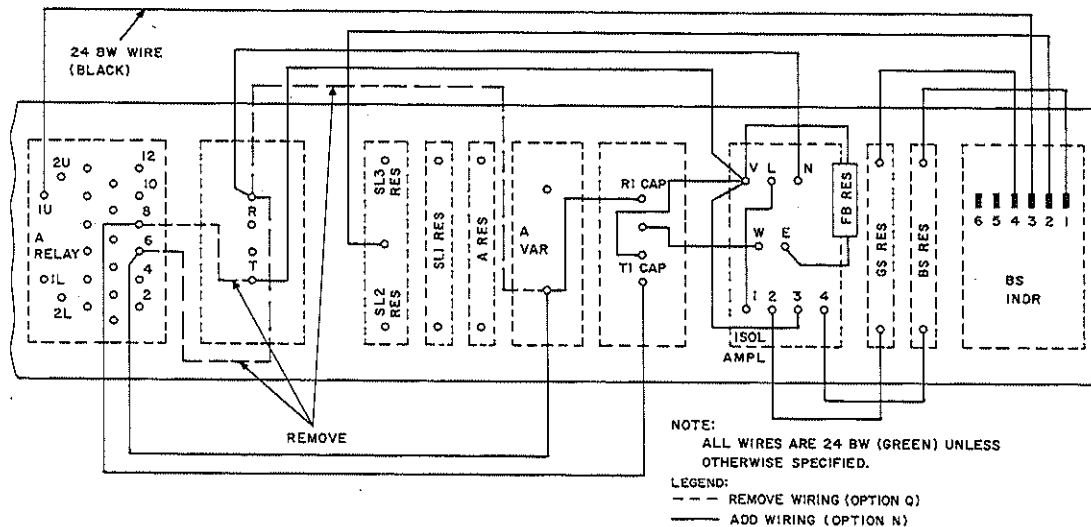


FIG. 1—Wiring for J58829W, List 3 Isolation Amplifier (SD-65747-01, Issue 8 or Earlier)

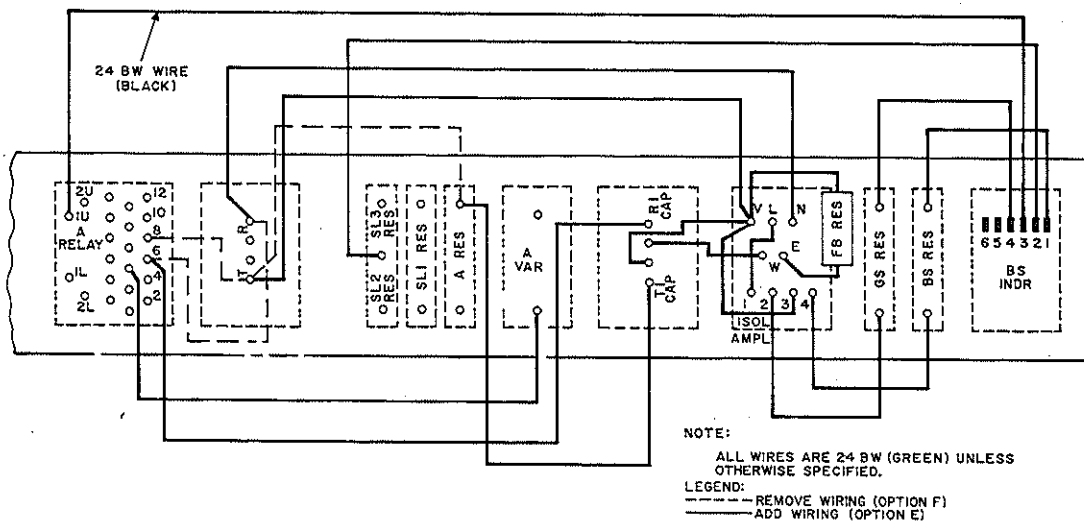


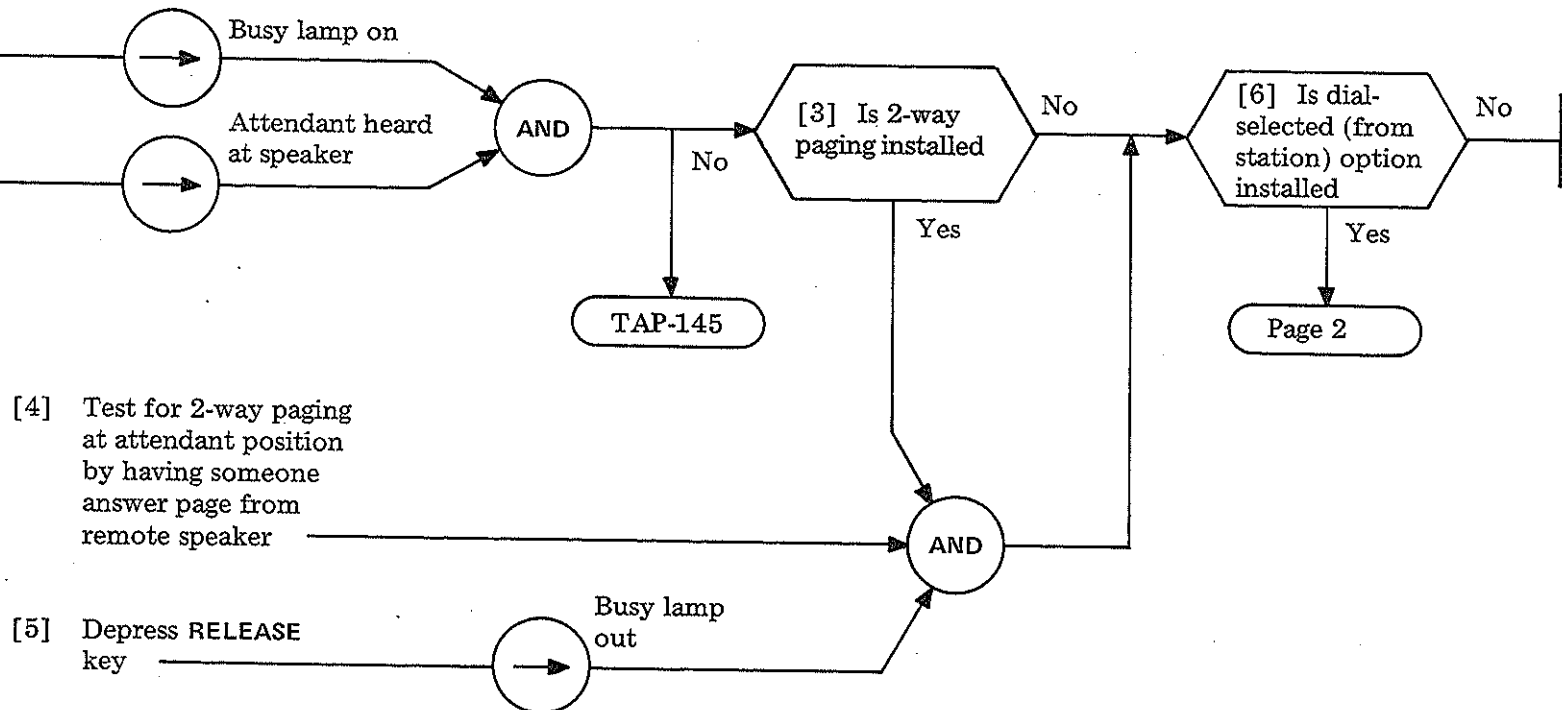
FIG. 2—Wiring for J58829W, List 3 Isolation Amplifier (SD-65747-01, Issue 9D or Later)

INSTALL AND TEST LOUDSPEAKER PAGING TRUNK EQUIPMENT (SD-65747)

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[1] If provided, at attendant equipment, depress pickup key assigned to loudspeaker paging trunk

[2] Speak into handset

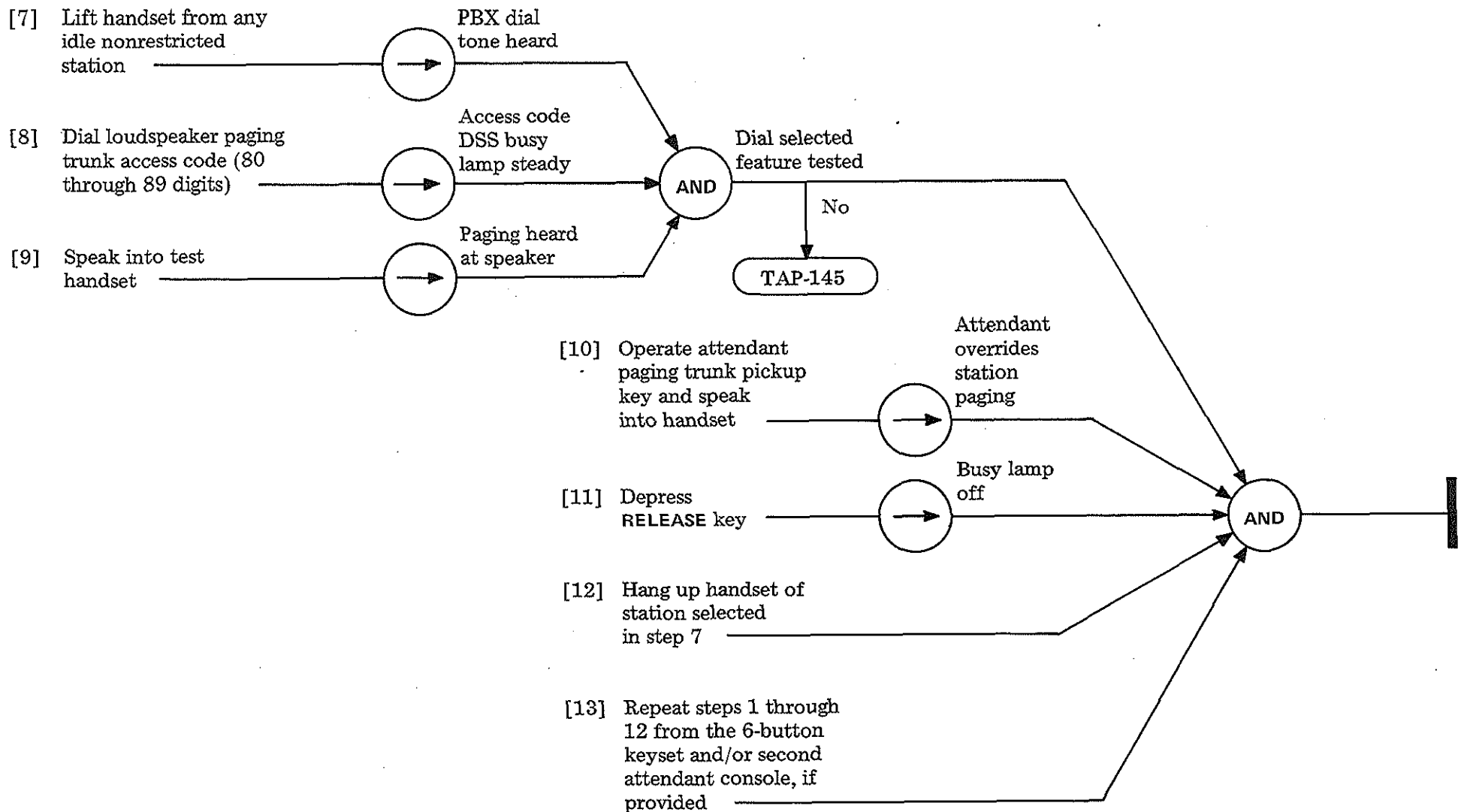


[4] Test for 2-way paging at attendant position by having someone answer page from remote speaker

[5] Depress RELEASE key

TEST LOUDSPEAKER PAGING TRUNK FEATURE

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TEST LOUDSPEAKER PAGING TRUNK FEATURE

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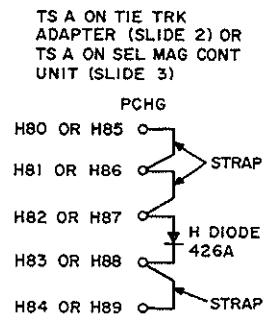
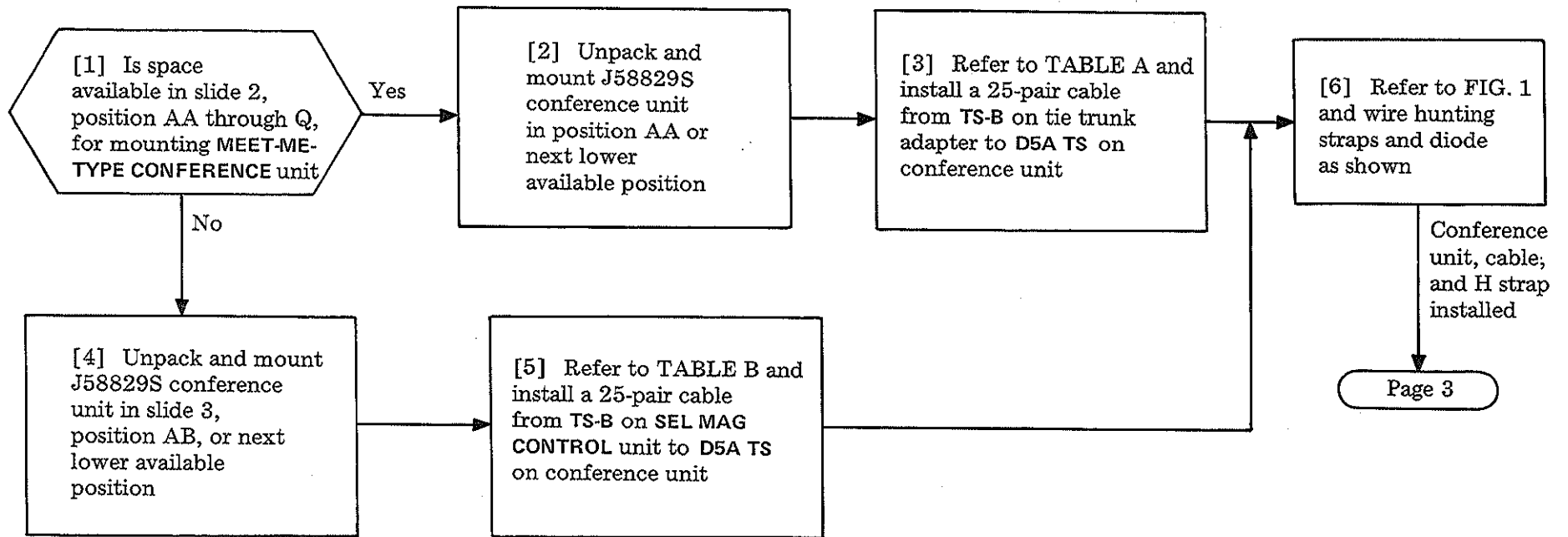


FIG. 1

TABLE A		
FROM	LEAD COLOR	TO
TS-B ON TIE TRK ADAPTER (SLIDE 2)		D5A TS ON CONFERENCE UNIT
TERMINAL*		TERMINAL
T2-80 or 85	○ — W-BL	○ T2-85
R2-80 or 85	○ — BL-W	○ R2-85
S2-80 or 85	○ — R-BL	○ S2-85
T2-81 or 86	○ — W-O	○ T2-86
R2-81 or 86	○ — O-W	○ R2-86
S2-81 or 86	○ — BL-R	○ S2-86
T2-82 or 87	○ — W-G	○ T2-87
R2-82 or 87	○ — G-W	○ R2-87
S2-82 or 87	○ — R-O	○ S2-87
T2-83 or 88	○ — W-BR	○ T2-88
R2-83 or 88	○ — BR-W	○ R2-88
S2-83 or 88	○ — O-R	○ S2-88
T2-84 or 89	○ — W-S	○ T2-89
R2-84 or 89	○ — S-W	○ R2-89
S2-84 or 89	○ — R-G	○ S2-89
GRD T80 or T85	○ — BK-O	○ GRD 85
BAT T80 or T85	○ — O-BK	○ BAT 85

* Choose unused series 80-84 or 85-89

TS-B in slide 2, position L through Q

TABLE B		
FROM	LEAD COLOR	TO
TS-B ON SEL MAG CONT (SLIDE 3)		D5A TS ON CONFERENCE UNIT
TERMINAL*		TERMINAL
T2-85	○ — W-BL	○ T2-85
R2-85	○ — BL-W	○ R2-85
S2-85	○ — R-BL	○ S2-85
T2-86	○ — W-O	○ T2-86
R2-86	○ — O-W	○ R2-86
S2-86	○ — BL-R	○ S2-86
T2-87	○ — W-G	○ T2-87
R2-87	○ — G-W	○ R2-87
S2-87	○ — R-O	○ S2-87
T2-88	○ — W-BR	○ T2-88
R2-88	○ — BR-W	○ R2-88
S2-88	○ — O-R	○ S2-88
T2-89	○ — W-S	○ T2-89
R2-89	○ — S-W	○ R2-89
S2-89	○ — R-G	○ S2-89
GRD 85	○ — BK-O	○ GRD 85
BAT 85	○ — O-BK	○ BAT 85

* Choose unused series 85-89

TS-B in slide 3, position V

[7] Refer to NOTE 1 and remove straps on MISC TS of dial pulse registers 0 and 1 (slide 6, positions B and E)

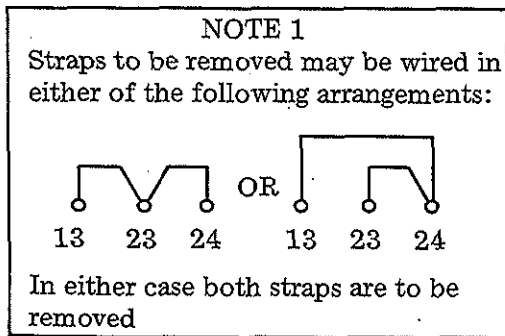
[8] Wire straps 13 to 14, 24 to 25, and 15 to 25 on MISC TS of dial pulse registers 0 and 1 (slide 6, positions B and E)

Code 8
Access installed

[9] Remove straps T to T1-1 and R to R1-1 on TS-B (slide 2) for each universal line circuit (80 through 89) used for conference circuit

[10] Wire straps HM to IT on LINE TS (slide 2) for each universal line (80 through 89) used for conference circuit

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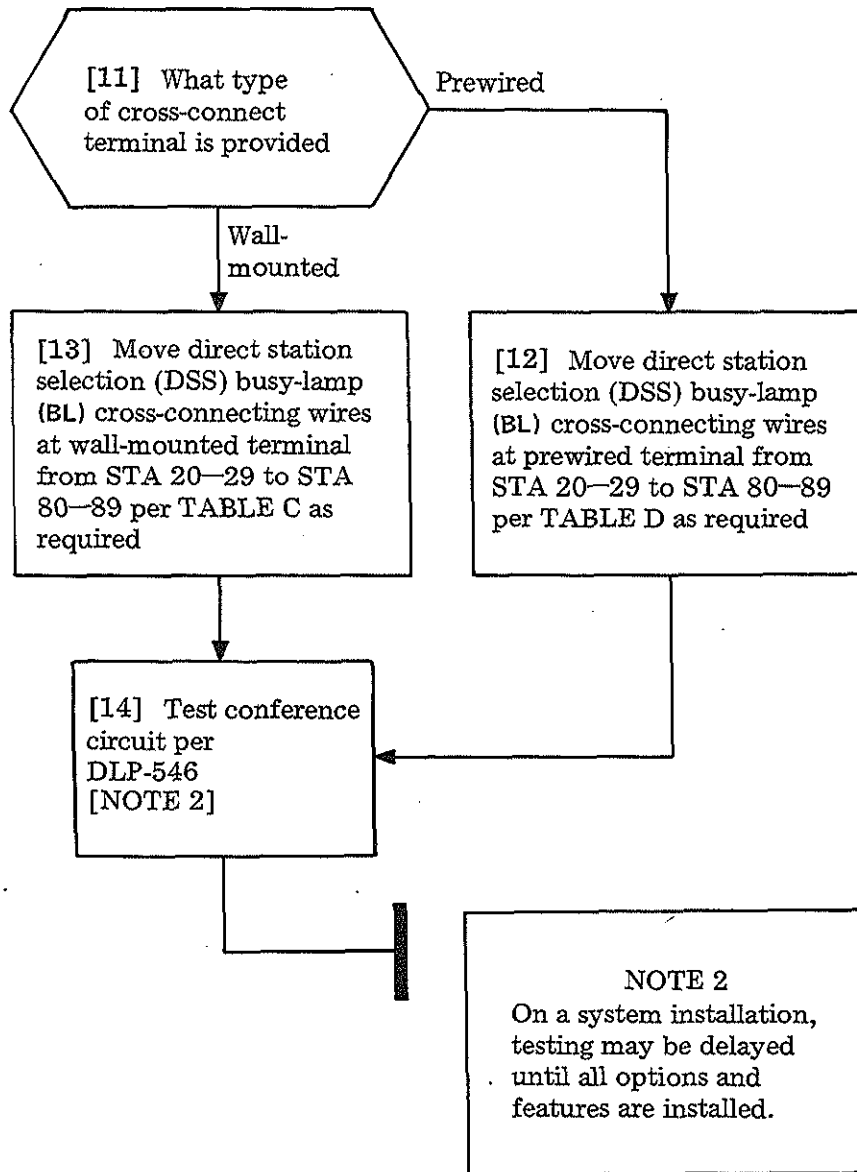


TABLE C							
WALL TERMINAL							
FROM			TO				
G-W BINDER BLOCK A10	COLOR	LEAD	TERM	BR-W BINDER BLOCK B10	COLOR	LEAD	TERM
	Y-BL	BL21	T16		Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
S-Y	BL28	R20	S-V	BL88	R25		

TABLE D							
PREWIRED TERMINAL							
FROM			TO				
G-W BINDER BLOCK B5	COLOR	LEAD	TERM	BR-W BINDER BLOCK B6	COLOR	LEAD	TERM
	Y-BL	BL21	T16		V-BL	BL81	T21
	BL-Y	BL20	R16		BL-V	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
S-Y	BL28	R20	S-V	BL88	R25		

[1] See NOTE 1 and NOTE 2

[2] Dial station conference access code 85 from an idle PBX station (STA 1)

[3] Dial station conference access code 85 from another idle PBX station (STA 2)

STA 1 and 85
DSS lamps on

AND

DSS lamp 86
and STA 2 on,
STA 1 and STA 2
conversation
satisfactory

No

TAP-142

NOTES

1. Access codes 85 through 89 have been used in this test. If conference unit is mounted in slide 2, access codes 80 through 84 could be used in place of 85 through 89. However, only 85 through 89 may be used if conference unit mounted in slide 3. See DLP-545 for wiring configuration
2. Station conference access codes are 80 through 82 or 85 through 87. Trunk conference access codes are 83 and 84 or 88 and 89. All stations should not be restricted for dialing digits 8__.

[4] Dial a conference access code 85 from a third idle PBX station (STA 3)

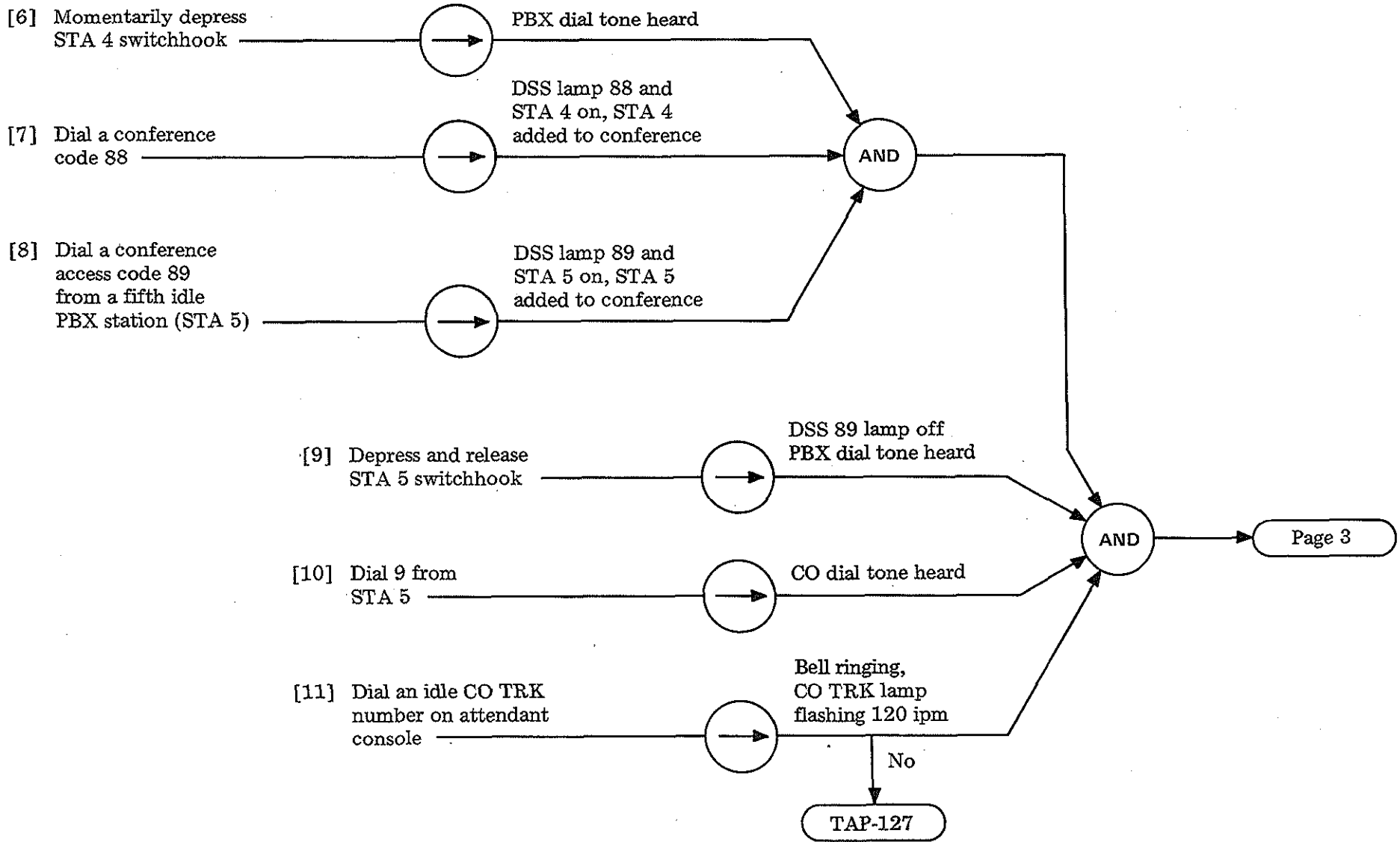
DSS lamp 87
and STA 3 on,
STA 1, STA 2,
and STA 3
conversation
satisfactory

AND

[5] Dial a conference access code 85 from a fourth idle PBX station (STA 4)

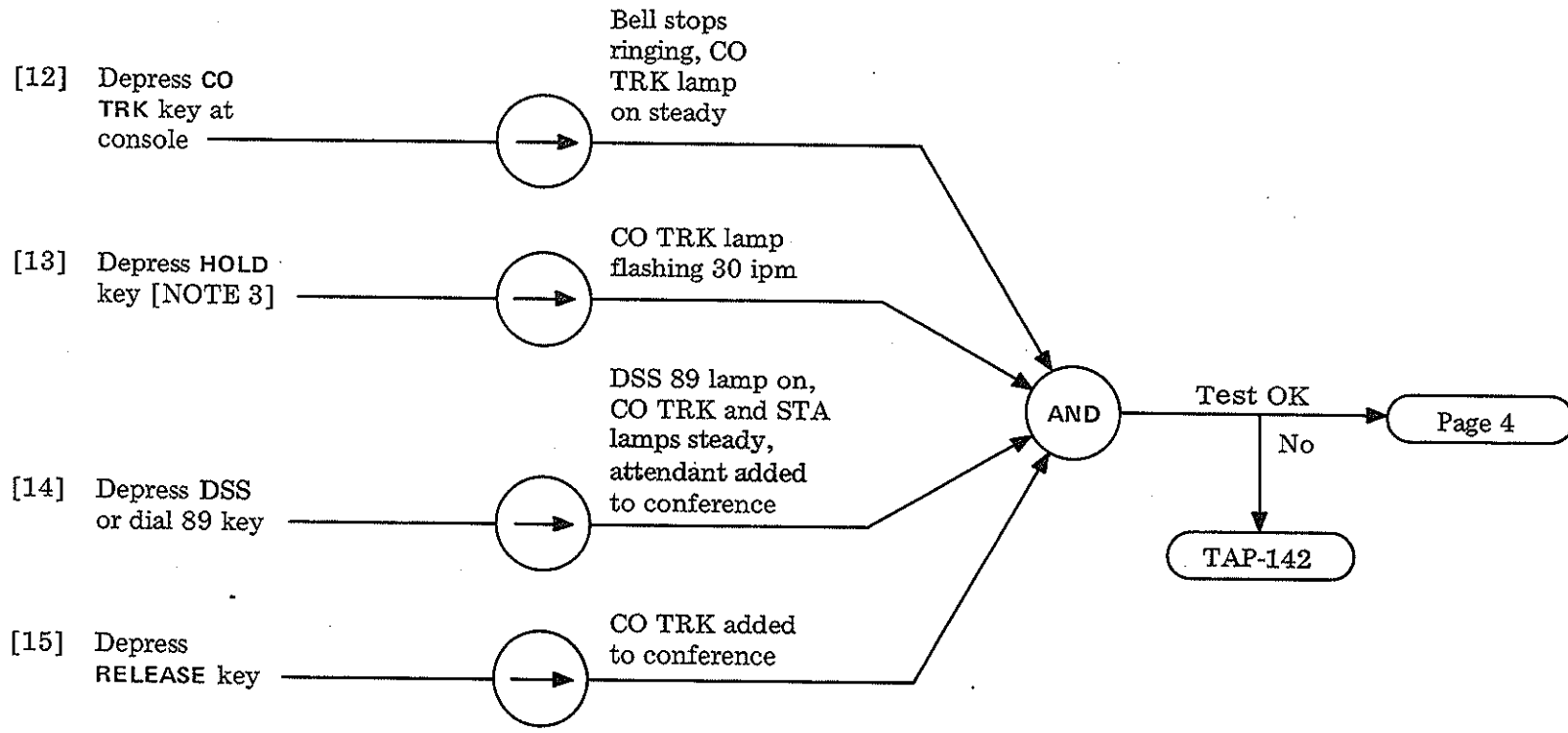
Busy tone heard

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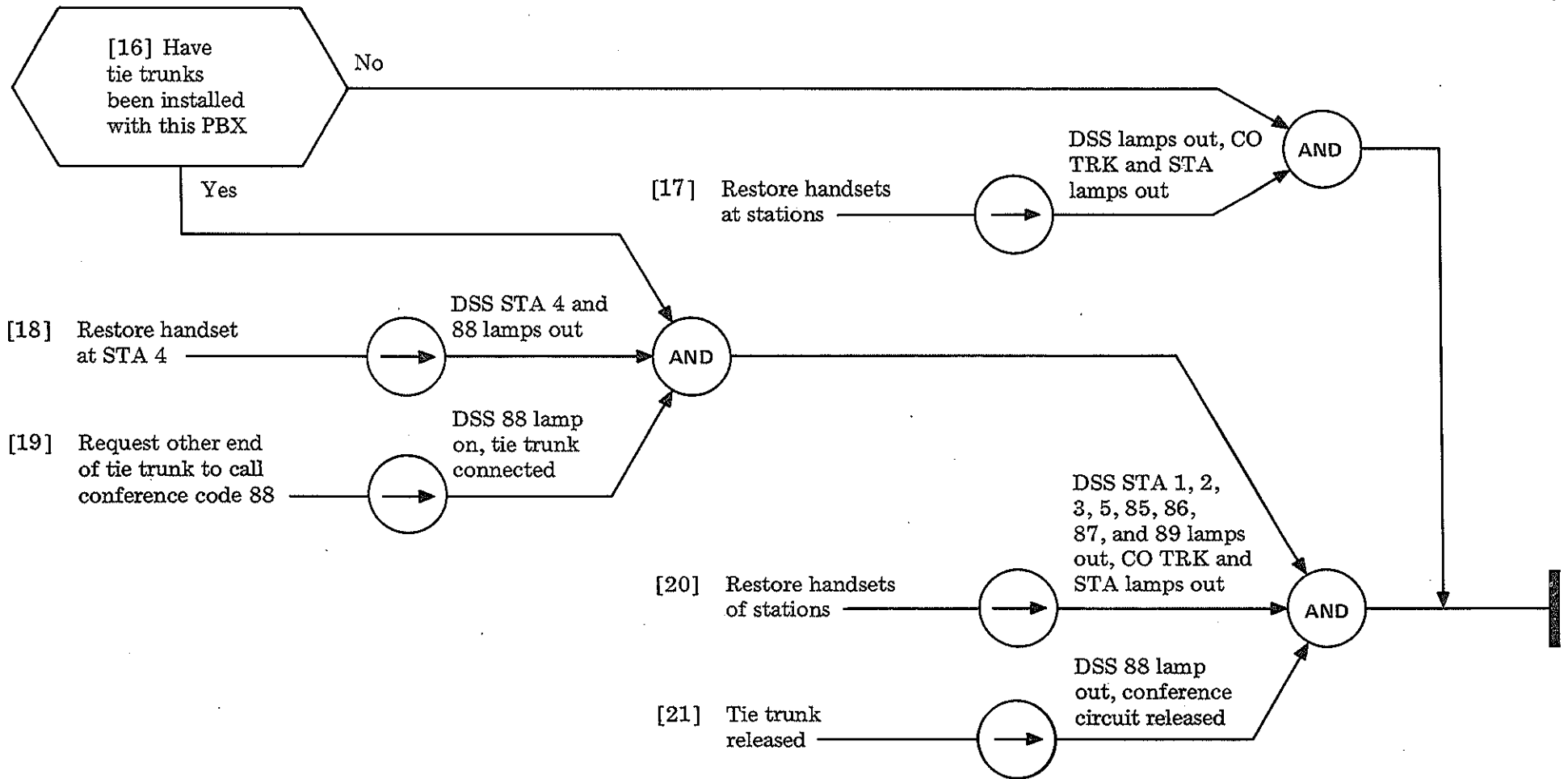


TEST MEET-ME-TYPE CONFERENCE FEATURE

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NOTE 3
 If DSS is used,
 step 13 is not
 required



[1] Will message waiting key and lamp console be desk or wall mounted [FIG. 1 and NOTE 1]

Desk

Wall

NOTE 1
756A PBX cabinet 1 must be J58829A, L15 or higher and cabinet 2 must be J58829A, L13 or higher to be compatible with message waiting

[2] Unpack and place message waiting console J58834E, L1 or J58834A, L1 at attendant location [FIG. 2]

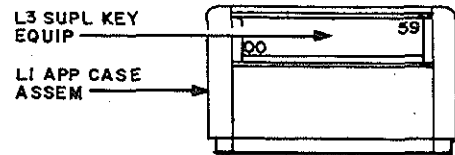


FIG. 2

[3] Mount J58834E, L6 or J58834A, L6 bracket on wall location [FIG. 3]

[4] Unpack and mount console J58834E, L1 or J58834A, L1 on wall bracket [FIG. 3]

[5] Mount external equipment cabinet ED-91194-01 (6-plate) or equivalent close to PBX cabinets [FIG. 4]

[6] Mount J58834C, L1 power supply, interrupter, and network unit in external equipment cabinet [FIG. 4]

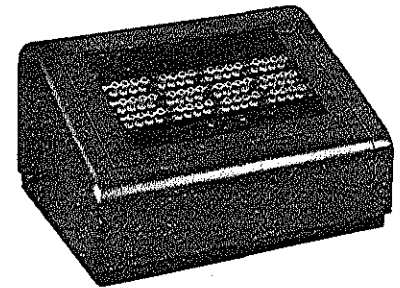
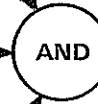


FIG. 1



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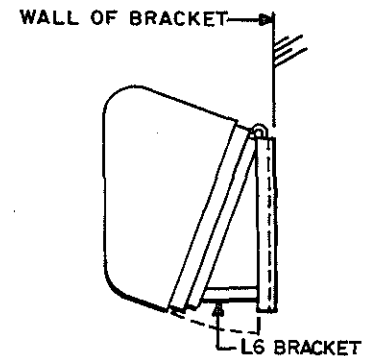


FIG. 3

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[7] Mount three J58834D, L1 network units on the J58834C, L1 unit [FIG. 4]

[8] Place 75-pair supplementary house and feeder cable J58829A, L42 from PBX crown to power supply, interrupter, and network unit mounted in external cabinet [FIG. 5]

[9] See CAUTION. Remove KS-16344 shorting plugs in PBX crown from slides 2, 3, and 4, connectors AG and AH

CAUTION
On in-service basis, removal of KS-16344 shorting plugs will open the ring side of all station loops

[10] Mate cable plugs at PBX crown to slides 2, 3, and 4, connectors AG and AH [FIG. 5]

AND

Page 3

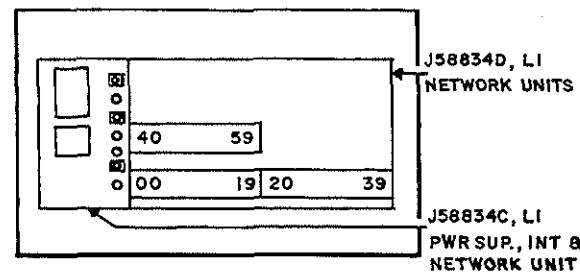


FIG. 4

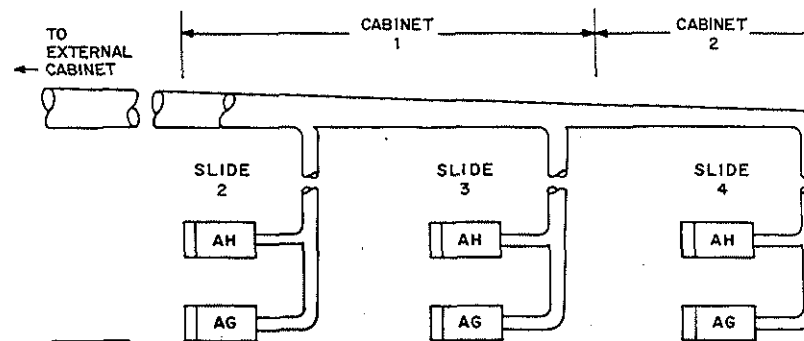


FIG. 5

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[11] Connect the stub end of J58829A, L42 cable to L and R leads on network TS in external cabinet per TABLE A [FIG. 6 and NOTE 2]

[12] Connect the white and black leads of 3-conductor power cord (part of J58829A, L42) to respective punchings of AC power key of power supply mounted in external cabinet and connect green lead to chassis ground punching

[13] Place a ground wire (14-gauge) from PBX cross-connect terminal to external equipment cabinet

[14] Connect ground wire at cross-connect terminal end to an approved ground terminal and external cabinet end to chassis ground terminal

NOTE 2
On side of terminal strip arranged to connect even-numbered circuits (00-18); other side arranged to connect odd-numbered circuits (01-19)

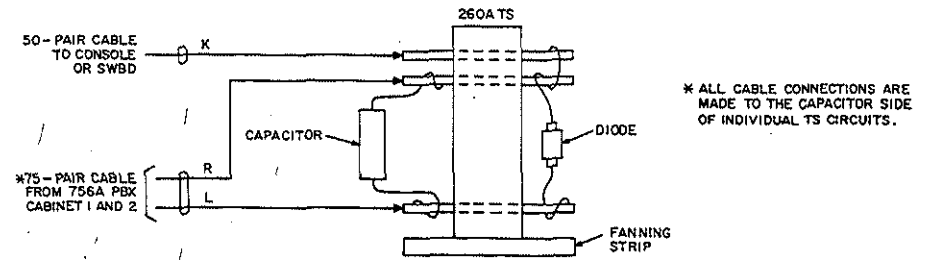


FIG. 6 – Typical Station Connection at the Network Unit

[15] Place 50-pair inside wire cable from external cabinet to message waiting console

[16] Connect external cabinet end of 50-pair cable to network TS per TABLE B and FIG. 6

[17] Connect console end of 50-pair cable per TABLE B

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TABLE A

CONNECT		TO		CONNECT		TO		CONNECT		TO		CONNECT		TO									
PAIR	COLOR	LEAD	PWR SUP, INT & NET TS		PAIR	COLOR	LEAD	PWR SUP, INT & NET TS		PAIR	COLOR	LEAD	PWR SUP, INT & NET TS		PAIR	COLOR	LEAD	PWR SUP, INT & NET TS					
BL-W BINDER	1T	W-BL	L	L	00	BL-W BINDER	16T	Y-BL	L	L	15	O-W BINDER	31T	R-BL	L	L	30	O-W BINDER	46T	V-BL	L	L	45
	1R	BL-W	R	R	00		16R	BL-Y	R	R	15		31R	BL-R	R	R	30		46R	BL-V	R	R	45
	2T	W-O	L	L	01		17T	Y-O	L	L	16		32T	R-O	L	L	31		47T	V-O	L	L	46
	2R	O-W	R	R	01		17R	O-Y	R	R	16		32R	O-R	R	R	31		47R	O-V	R	R	46
	3T	W-G	L	L	02		18T	Y-G	L	L	17		33T	R-G	L	L	32		48T	V-G	L	L	47
	3R	G-W	R	R	02		18R	G-Y	R	R	17		33R	G-R	R	R	32		48R	G-V	R	R	47
	4T	W-BR	L	L	03		19T	Y-BR	L	L	18		34T	R-BR	L	L	33		49T	V-BR	L	L	48
	4R	BR-W	R	R	03		19R	BR-Y	R	R	18		34R	BR-R	R	R	33		49R	BR-V	R	R	48
	5T	W-S	L	L	04		20T	Y-S	L	L	19		35T	R-S	L	L	34		50T	V-S	L	L	49
	5R	S-W	R	R	04		20R	S-Y	R	R	19		35R	S-R	R	R	34		50R	S-V	R	R	49
	6T	R-BL	L	L	05		21T	V-BL	L	L	20		36T	BK-BL	L	L	35		51T	W-BL	L	L	50
	6R	BL-R	R	R	05		21R	BL-V	R	R	20		36R	BL-BK	R	R	35		51R	BL-W	R	R	50
	7T	R-O	L	L	06		22T	V-O	L	L	21		37T	BK-O	L	L	36		52T	W-O	L	L	51
	7R	O-R	R	R	06		22R	O-V	R	R	21		37R	O-BK	R	R	36		52R	O-W	R	R	51
	8T	R-G	L	L	07		23T	V-G	L	L	22		38T	BK-G	L	L	37		53T	W-G	L	L	52
8R	G-R	R	R	07	23R	G-V	R	R	22	38R	G-BK	R	R	37	53R	G-W	R	R	52				
9T	R-BR	L	L	08	24T	V-BR	L	L	23	39T	BK-BR	L	L	38	54T	W-BR	L	L	53				
9R	BR-R	R	R	08	24R	BR-V	R	R	23	39R	BR-BK	R	R	38	54R	BR-W	R	R	53				
10T	R-S	L	L	09	25T	V-S	L	L	24	40T	BK-S	L	L	39	55T	W-S	L	L	54				
10R	S-R	R	R	09	25R	S-V	R	R	24	40R	S-BK	R	R	39	55R	S-W	R	R	54				
11T	BK-BL	L	L	10	26T	W-BL	L	L	25	41T	Y-BL	L	L	40	56T	R-BL	L	L	55				
11R	BL-BK	R	R	10	26R	BL-W	R	R	25	41R	BL-Y	R	R	40	56R	BL-R	R	R	55				
12T	BK-O	L	L	11	27T	W-O	L	L	26	42T	Y-O	L	L	41	57T	R-O	L	L	56				
12R	O-BK	R	R	11	27R	O-W	R	R	26	42R	O-Y	R	R	41	57R	O-R	R	R	56				
13T	BK-G	L	L	12	28T	W-G	L	L	27	43T	Y-G	L	L	42	58T	R-G	L	L	57				
13R	G-BK	R	R	12	28R	G-W	R	R	27	43R	G-Y	R	R	42	58R	G-R	R	R	57				
14T	BK-BR	L	L	13	29T	W-BR	L	L	28	44T	Y-BR	L	L	43	59T	R-BR	L	L	58				
14R	BR-BK	R	R	13	29R	BR-W	R	R	28	44R	BR-Y	R	R	43	59R	BR-R	R	R	58				
15T	BK-S	L	L	14	30T	W-S	L	L	29	45T	Y-S	L	L	44	60T	R-S	L	L	59				
15R	S-BK	R	R	14	30R	S-W	R	R	29	45R	S-Y	R	R	44	60R	S-R	R	R	59				

Pairs 61 thru 75 are spare

INSTALL AND TEST MESSAGE WAITING EQUIPMENT (SD-65784)

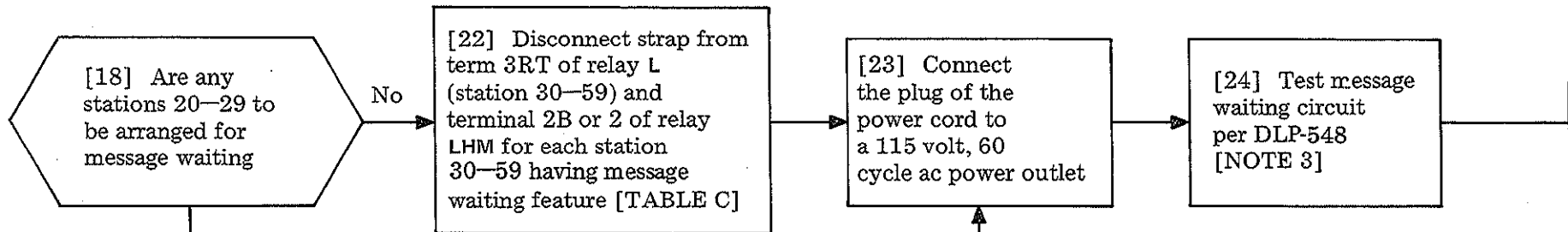
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TABLE B

CONNECT		FROM	TO	PBX STA NO.	CONNECT		FROM	TO	PBX STA NO.	CONNECT		FROM	TO	LEAD			
PAIR	COLOR	PCHG ON NETWORK TS	PCHG ON CSL OR SWBD TS		PAIR	COLOR	PCHG ON NETWORK TS	PCHG ON CSL OR SWBD TS		PAIR	COLOR	PWR SUP, INT & NET	PCHG ON CSL OR SWBD TS				
BL-W BINDER	1T	W-BL	K0	00	20	BL-W BINDER	16T	Y-BL	K30	30	O-W BINDER	31T	R-BL	Sw (A) Term. 2	13	A	
	1R	BL-W	K1	01	21		16R	BL-Y	K31	31		51	31R	BL-R	Sw (B) Term. 2	15	B
	2T	W-O	K2	02	22		17T	Y-O	K32	32		52	32T	R-O	(D) Res Term.	14	C
	2R	O-W	K3	03	23		17R	O-Y	K33	33		53	32R	O-R	Chassis GRD Term.	0	G
	3T	W-G	K4	04	24		18T	Y-G	K34	34		54	Pairs 33 thru 50 are spare				
	3R	G-W	K5	05	25		18R	G-Y	K35	35	55						
	4T	W-BR	K6	06	26		19T	Y-BR	K36	36	56						
	4R	BR-W	K7	07	27		19R	BR-Y	K37	37	57						
	5T	W-S	K8	08	28		20T	Y-S	K38	38	58						
	5R	S-W	K9	09	29		20R	S-Y	K39	39	59						
	6T	R-BL	K10	10	30		21T	V-BL	K40	40	60						
	6R	BL-R	K11	11	31		21R	BL-V	K41	41	61						
	7T	R-O	K12	12	32		22T	V-O	K42	42	62						
	7R	O-R	K13	13	33		22R	O-V	K43	43	63						
	8T	R-G	K14	14	34		23T	V-G	K44	44	64						
8R	G-R	K15	15	35	23R	G-V	K45	45	65								
9T	R-BR	K16	16	36	24T	V-BR	K46	46	66								
9R	BR-R	K17	17	37	24R	BR-V	K47	47	67								
10T	R-S	K18	18	38	25T	V-S	K48	48	68								
10R	S-R	K19	19	39	25R	S-V	K49	49	69								
O-W BINDER	11T	BK-BL	K20	20	40	26T	W-BL	K50	50	70							
	11R	BL-BK	K21	21	41	26R	BL-W	K51	51	71							
	12T	BK-O	K22	22	42	27T	W-O	K52	52	72							
	12R	O-BK	K23	23	43	27R	O-W	K53	53	73							
	13T	BK-G	K24	24	44	28T	W-G	K54	54	74							
	13R	G-BK	K25	25	45	28R	G-W	K55	55	75							
	14T	BK-BR	K26	26	46	29T	W-BR	K56	56	76							
	14R	BR-BK	K27	27	47	29R	BR-W	K57	57	77							
	15T	BK-S	K28	28	48	30T	W-S	K58	58	78							
	15R	S-BK	K29	29	49	30R	S-W	K59	59	79							

INSTALL AND TEST MESSAGE WAITING EQUIPMENT (SD-65784)

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[19] Disconnect strap from terminal 2U of relay L (stations 20-29) and terminal 2B or 2 of relay LHM for each station 20-29 having message waiting feature [TABLE C]

[20] Disconnect battery end of 426A-type diode L (wiring side, slide 2, positions N and P) for each station 20-29 having message waiting feature

[21] Place strap from terminal 2L of relay L (stations 20-29) and terminal where diode L was disconnected

[22] Disconnect strap from term 3RT of relay L (station 30-59) and terminal 2B or 2 of relay LHM for each station 30-59 having message waiting feature [TABLE C]

[23] Connect the plug of the power cord to a 115 volt, 60 cycle ac power outlet

[24] Test message waiting circuit per DLP-548 [NOTE 3]

NOTE 3
On a system installation, testing may be delayed until all options and features are installed

TABLE C			
STATIONS		RELAYS POSITIONS	
		L	LHM
SLIDE 2	20-29	N, P	A
	30-39	L	F
SLIDE 3	40-49	L, M	A
	50-59	L, M	F

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- [1] Operate message waiting (MW) AC power switch (external cabinet) to OFF position
 [NOTE 1]

NOTE 1
 FIG. 1 shows power supply controls in external cabinet, and FIG. 2 shows lamps on console or power supply. These are used throughout this test procedure

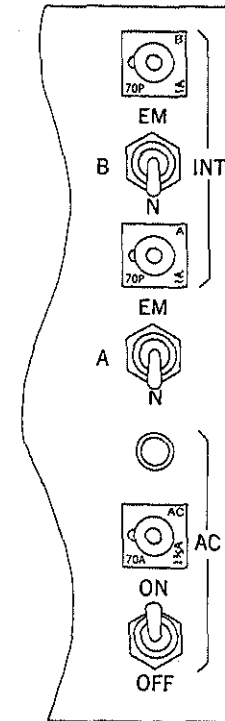
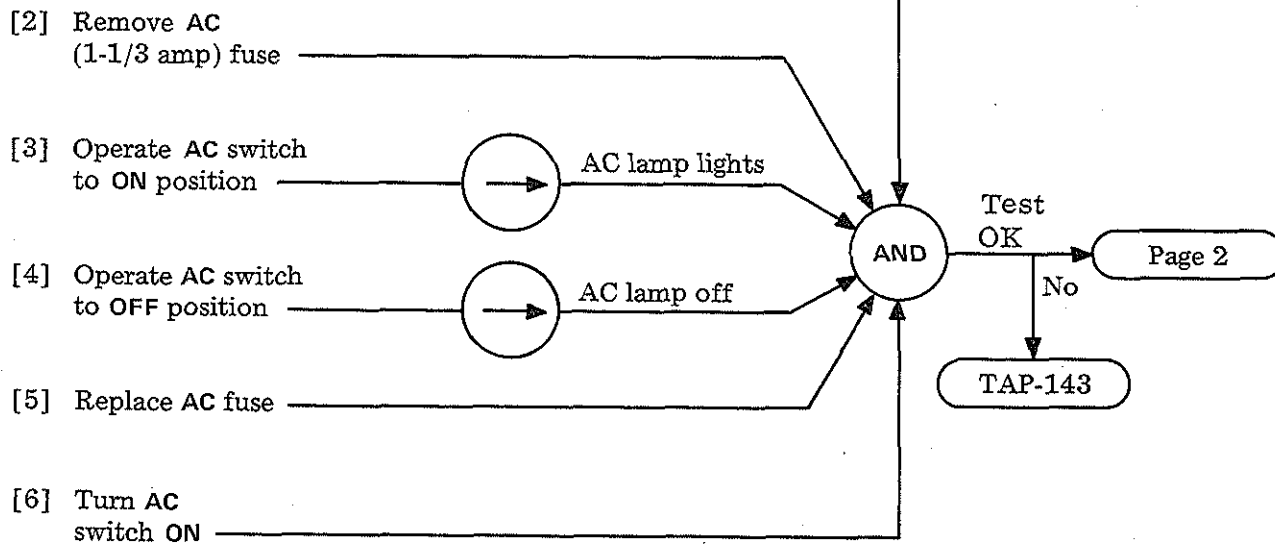


FIG. 1—Message Waiting Power Controls (External Cabinet)

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[7] Operate A and B switches to EM position

[8] Momentarily operate A FL key [FIG. 2]

Group A lamp on, then off

[9] Momentarily operate B FL key

Group B lamp on, then off

[10] Operate A and B switches to N position

[11] Momentarily operate A FL key

Group A lamp flashes 60 ipm, then off

[12] Momentarily operate B FL key

Group B lamp flashes 60 ipm, then off

[13] Operate all K keys on console to normal

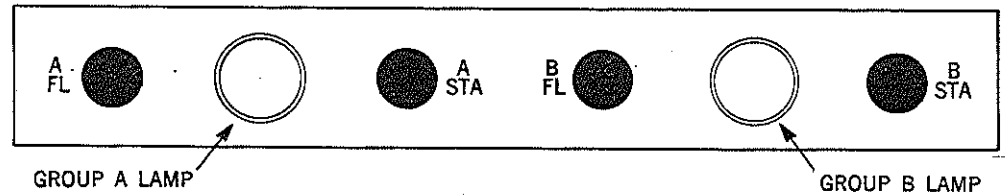


FIG. 2

AND

[14] At console, operate K-0 key

STA 20 MW lamp on

[15] Momentarily operate A STA key on power supply

Group A lamp flashes 60 ipm, then off

[16] Restore K-0 key on console

STA 20 MW lamp off

[17] Repeat steps 14 through 16 to test stations in group A, 21-39 (keys K-1 through K-19) and 60-79 (keys K-40 through K-59)

[18] Repeat steps 14 through 16, use B STA key in place of A STA key to test stations in group B, 40-59 (keys K-20 through K-39)

AND

Test OK

No

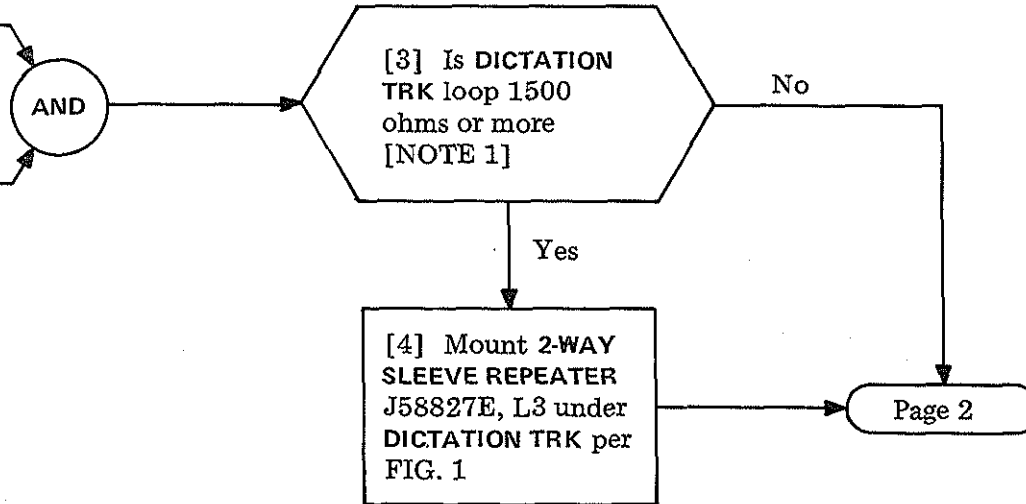
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TEST MESSAGE WAITING FEATURE

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[1] Install apparatus cabinet (16A with 117A cover or equivalent) near 756A cabinets

[2] Mount RECORDED TELEPHONE DICTATION TRK J58827E, L1 in apparatus cabinet per FIG. 1



NOTE 1
 This impedance is measured by using a KS-14510 meter at dictation trunk telephone set (T&R leads at connecting block) with farthest station from PBX originating call to dictation trunk

DICTATION TRUNK (SD-5E038-01) J58827E, LIST 1		2 *
2-WAY SLEEVE REPEATER J58827E, LIST 2 OR LIST 4		1 *
TOUCH-TONE TRANSLATION UNIT J58827E, LIST 2 OR LIST 4		1 *
TOUCH-TONE RECEIVER MTG SHELF J99289A		
TOUCH-TONE RECEIVER (A) J99289B		
A	3 *	B 3 *

* NUMBER OF 2-INCH MOUNTING PLATES PER UNIT

FIG. 1 – Apparatus Cabinet (16A)

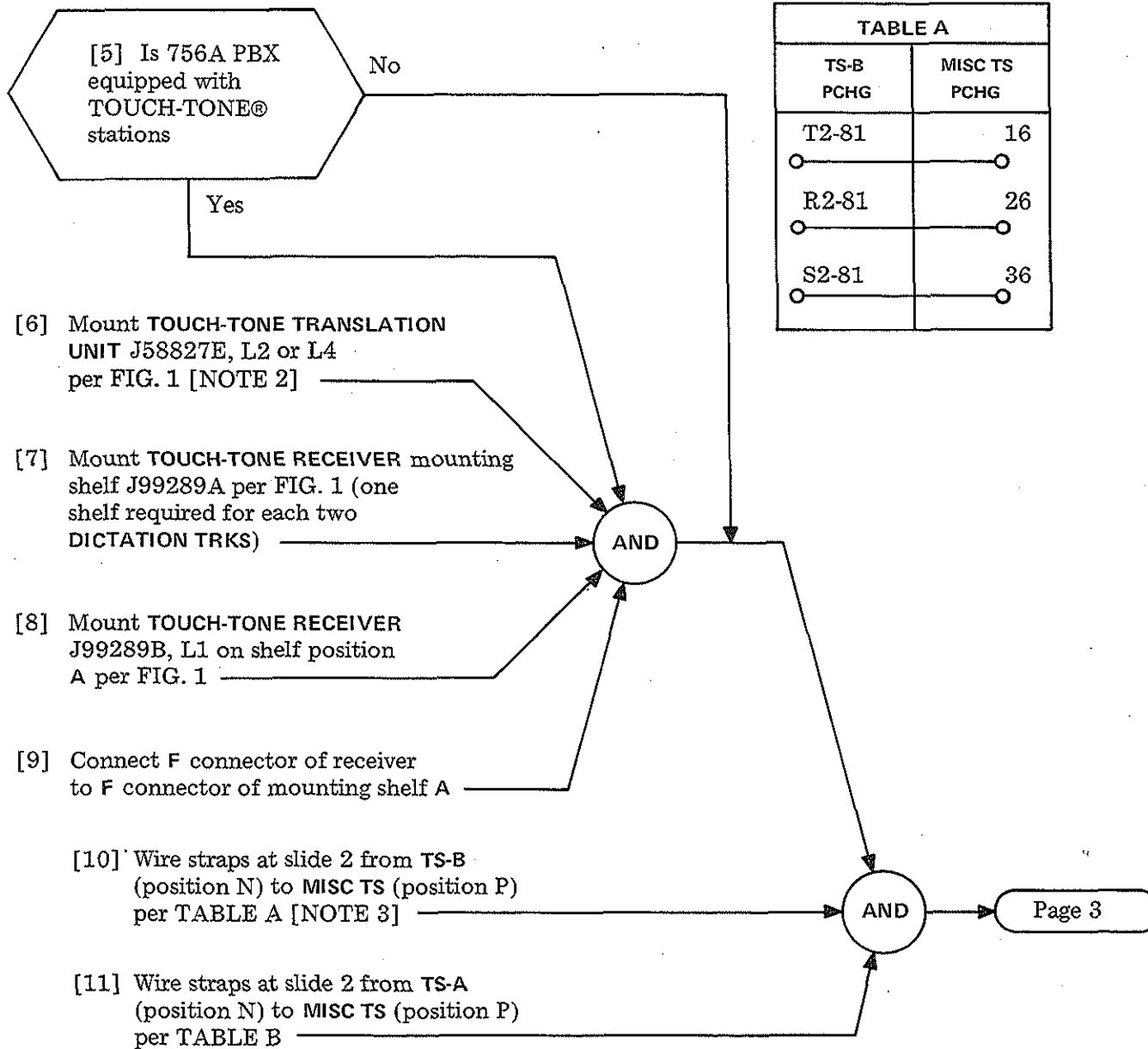


TABLE A	
TS-B PCHG	MISC TS PCHG
T2-81 ○————○	16
R2-81 ○————○	26
S2-81 ○————○	36

TABLE B	
TS-A PCHG	MISC TS PCHG
T80-GRD(B) ○————○	47
T80-BAT(B) ○————○	18
T81-GRD(A) ○————○	28
T81-BAT(A) ○————○	38
T82-GRD(C)* ○————○	48
T82-BAT(C)* ○————○	51

* Connect T82 leads when 2-way SLEEVE REPEATER is provided

NOTES

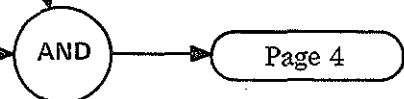
2. TOUCH-TONE TRANSLATION UNIT J58827E, L2 is required for 4X3 (12-Button) TOUCH-TONE RECEIVER and J58827E, L4 is required for 4X4 (16-Button) TOUCH-TONE RECEIVER
3. Universal trunk circuit 81 is being used as the access code for this DICTATION TRK as indicated in TABLE A

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[12] Wire straps at slide 2 MISC TS (position P) per TABLE C

[13] Install 25-pair inside wiring cable from pre-wired or wall-mounted cross-connect terminal to DICTATION TRK

[14] Terminate 25-pair cable at cross-connect terminal and DICTATION TRK per TABLE D



FROM MISC TS PCHG	TO MISC TS PCHG
R1 56	46
RG 58	17
CR 55	27
DT 53	37

CROSS-CONNECT TERMINAL		LEAD	COLOR	DICTATION TRUNK		
PREWIRED	WALL-MTD			TS(A)	(B)	(D)
8R	T11	T2-81	W-BL	58		23
9T	R11	R2-81	BL-W	48	} Straps	13
9R	T12	S2-81	W-O	15		
10T	R12	R1	O-W	46		
10R	T13	RG	W-G	36		
11T	R13	CR†	G-W	47		
11R	T14	DT	W-BR			44
12T	R14	T80-GRD(B)	W-S	53		
12R	T15	T80-BAT(B)	S-W	51		
13T	R15	T81-GRD(A)	R-BL	23		
13R	T16	T81-BAT(A)	BL-R	21		

* TABLE D leads are an extension of TABLES A, B, and C which are extended to cross-connect terminal through 75-pair crown cable (these are terminated on MISC TS in slide 2).
 † Connect CR lead for rotary dial only

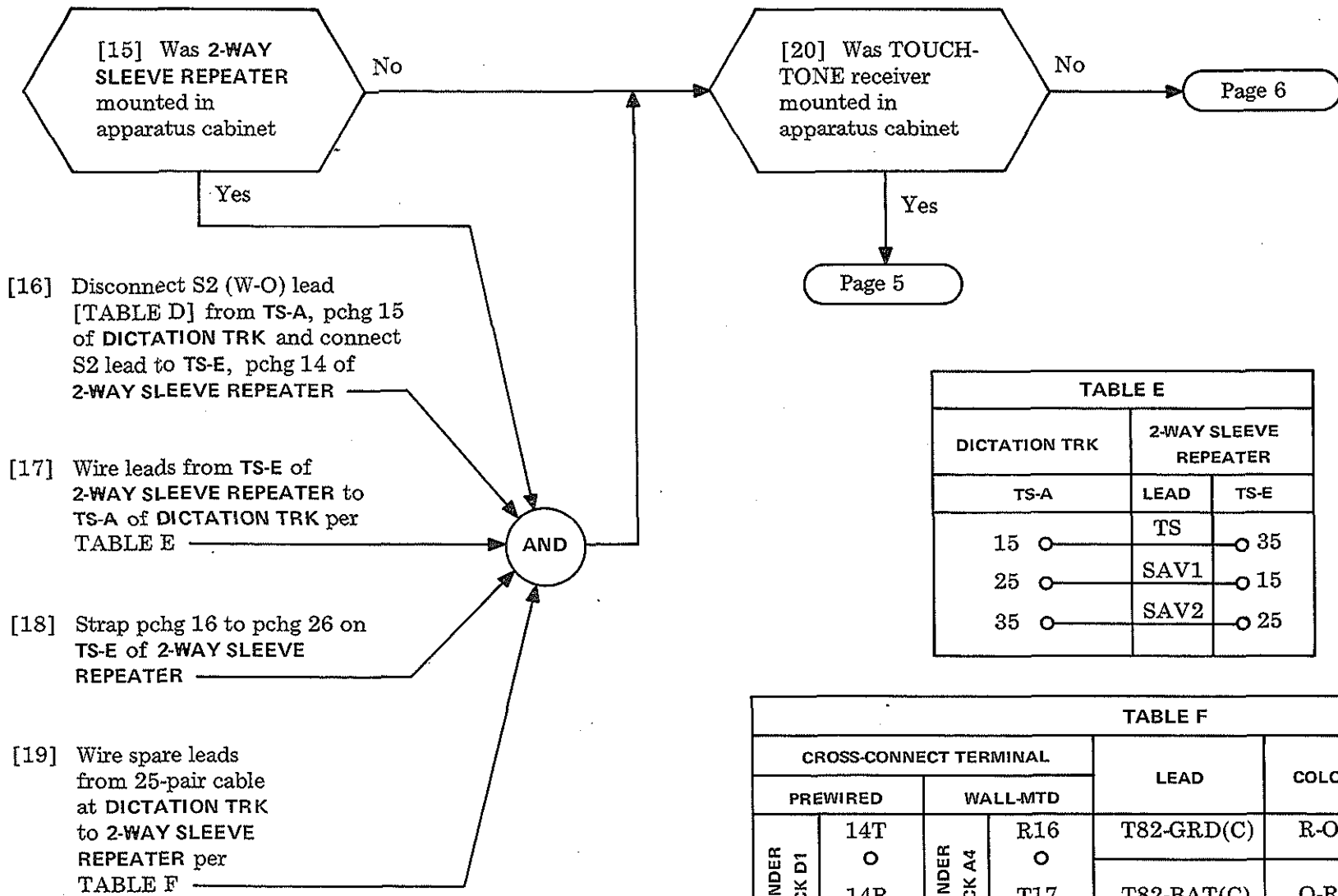


TABLE E

DICTATION TRK	2-WAY SLEEVE REPEATER	
	TS-A	TS-E
15 ○	TS	○ 35
25 ○	SAV1	○ 15
35 ○	SAV2	○ 25

TABLE F

CROSS-CONNECT TERMINAL				LEAD	COLOR	2-WAY REPEATER
PREWIRED		WALL-MTD				TS(E)
G-W BINDER BLOCK D1	14T	G-W BINDER BLOCK A4	R16	T82-GRD(C)	R-O	13
	○		○			○
	14R		T17	T82-BAT(C)	O-R	11
○	○					○

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TABLE G					
DICTATION TRUNK			LEAD	COLOR	TT TRANSLATOR
TS-A	TS-B	TS-C			TS-D
53	○		GRD	W-BL	○ 51
51	○		-48	BL-W	○ 11
58	○		T	W-O	○ 23
48	○		R	O-W	○ 13
		58	TT	W-G	○ 58
		47	TR	G-W	○ 48
		48	D1	W-BR	○ 38
		57	D13	BR-W	○ 28
		28	AT12	W-S	○ 18
			TT	S-W	○ 57
22	○		P32	R-BL	○ 47
12	○		P27	BL-R	○ 37
51	○		PZ10	R-O	○ 27
56	○		P17	O-R	○ 17
41	○		P11	R-G	○ 56
47	○		AT10	G-R	○ 46
21	○		AT6	R-BR	○ 36
11	○		B1	BR-R	○ 26
17	○		C1	R-S	○ 16
31	○				

[21] Place and terminate a 25-pair cable from DICTATION TRK to TT TRANSLATOR J58827E unit per TABLE G

[22] Place and terminate a 25-pair cable from TT TRANSLATOR to TT RECEIVER shelf unit per TABLE H

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TABLE H				
TT RECEIVER		LEAD	COLOR	TT TRANSLATOR
TS-G	ROW A OR B			TS-D
	TERM	HG4*	O-W	TERM
1	○	HG1	W-BL	○ 24
2	○	HG2	BL-W	○ 54
3	○	HG3	W-O	○ 44
4	○	LG1	W-G	○ 34
5	○	LG2	G-W	○ 55
6	○	LG3	W-BR	○ 45
7	○	LG4	BR-W	○ 35
8	○	GRD	R-O	○ 25
9	○	STR	W-S	○ 51
10	○	T	R-BL	○ 15
12	○	R	BL-R	○ 23
13	○	BAT		○ 13
		(-48V)	O-R	
15	○			○ 21

* Connect HG4 lead when 4X4 (16-button) TOUCH TONE operation is provided.

[23] Place 25-pair inside wiring cable from DICTATION TRK to location near customer-provided dictating machine

[24] Mounting 66M1-50 connecting block near dictating machine

[25] Terminate 25-pair cable on TS-A and TS-C of DICTATION TRK per TABLE I

[26] Terminate 25-pair cable on 66M1-50 terminal per TABLE I

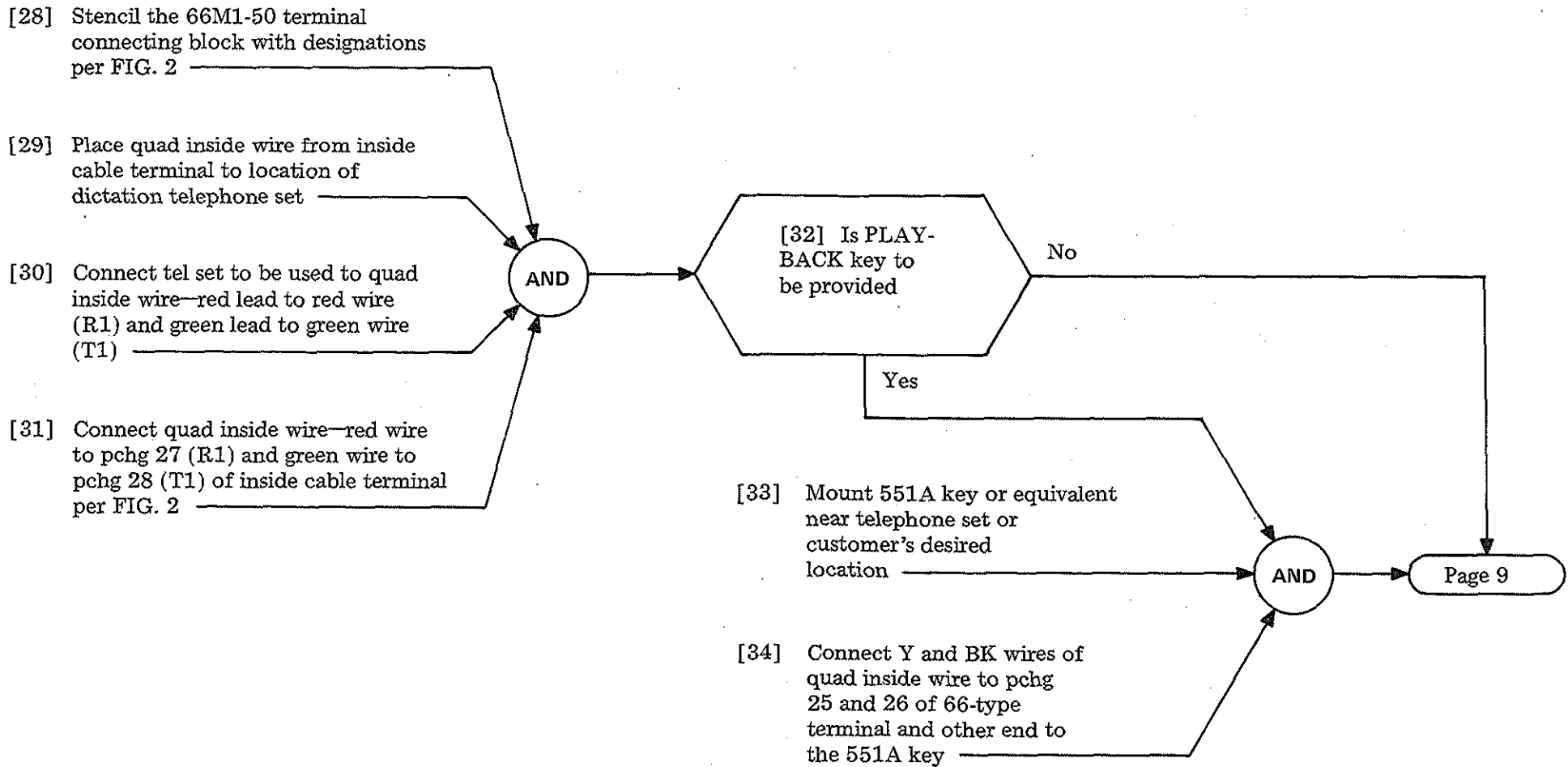
[27] Install B BRIDGING CLIPS per FIG. 2 on 66-type terminal, terminal numbers 1 through 22

AND

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TABLE I						
DICTATION TRK		LEAD	COLOR	66-TYPE TERMINAL TERM. NO.	FUNCTIONS INTERFACE	
TS-A	TS-C				CUST-PROVIDED EQUIPMENT	TELCo PROVIDED
58	○	TT	W-BL	○ 1	TT	Voice circuit
47	○	TR	BL-W	○ 2	TR	
25	○	SS2	W-O	○ 3	SS2	Start-stop
15	○	SS1	O-W	○ 4	SS1	
14	○	PB1	W-G	○ 5	PB1	Playback
24	○	PB2	G-W	○ 6	PB2	
34	○	PB3	W-BR	○ 7	PB3	
44	○	PB4	BR-W	○ 8	PB4	
54	○	PB5	W-S	○ 9	PB5	
53	○	C	S-W	○ 10	C	End of message
12	○	E1	R-BL	○ 11	E1	
22	○	E2	BL-R	○ 12	E2	
32	○	E3	R-O	○ 13	E3	
42	○	E4	O-R	○ 14	E4	Correction
11	○	C1	R-G	○ 15	C1	
21	○	C2	G-R	○ 16	C2	
31	○	C3	R-BR	○ 17	C3	
41	○	C4	BR-R	○ 18	C4	Seizure
51	○	S1	R-S	○ 19	S1	
52	○	S2	S-R	○ 20	S2	Ground
35	○	B	BK-BL	○ 21	B	
23	○	G	BL-BK	○ 22	G	
33	○	CT	BK-O	○ 23	CT	
43	○	CR	O-BK	○ 24	CR	
33	○	PB	BK-G	○ 25	PB	TELCo test line
23	○	G2	G-BK	○ 26	G2	
18	○	R1	BK-BR	○ 27	R1	Playback key
28	○	T1	BR-BK	○ 28	T1	

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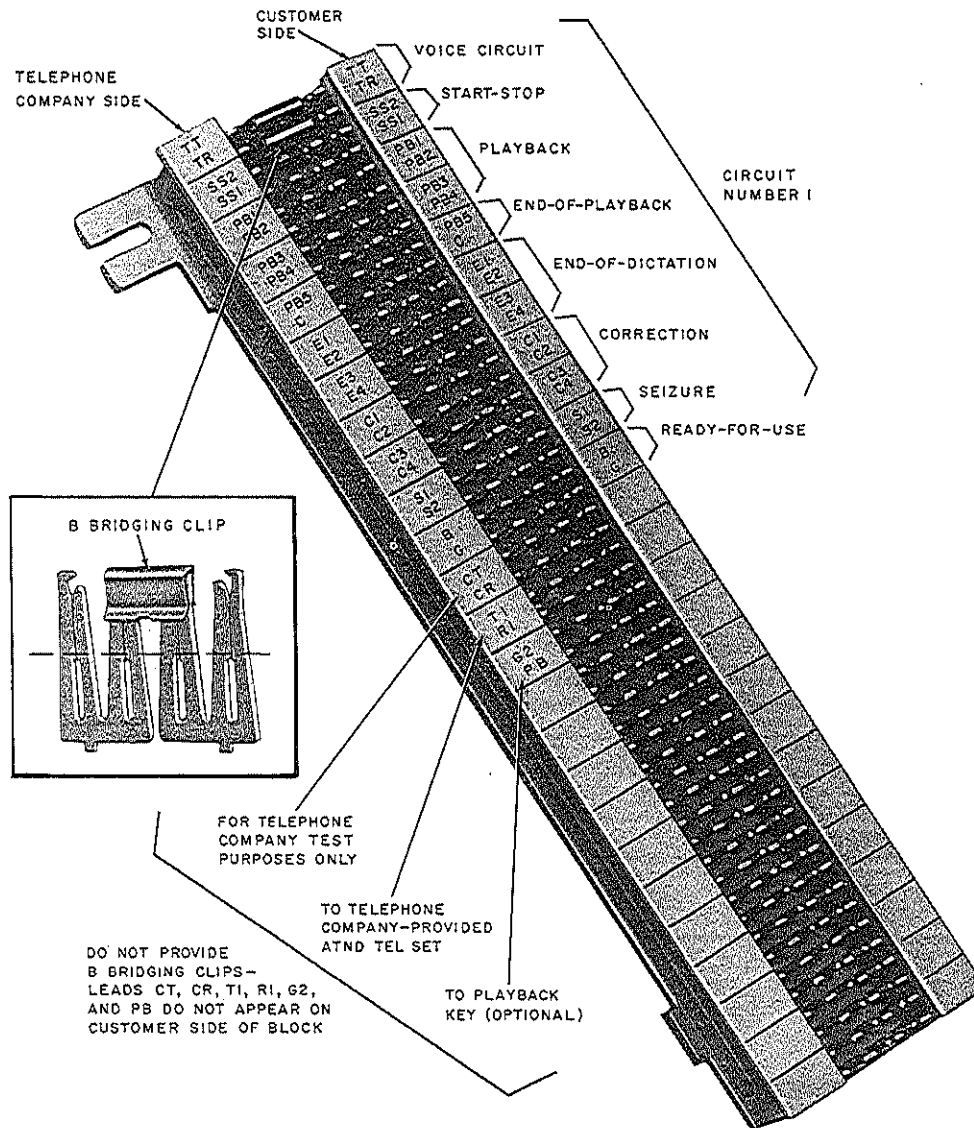
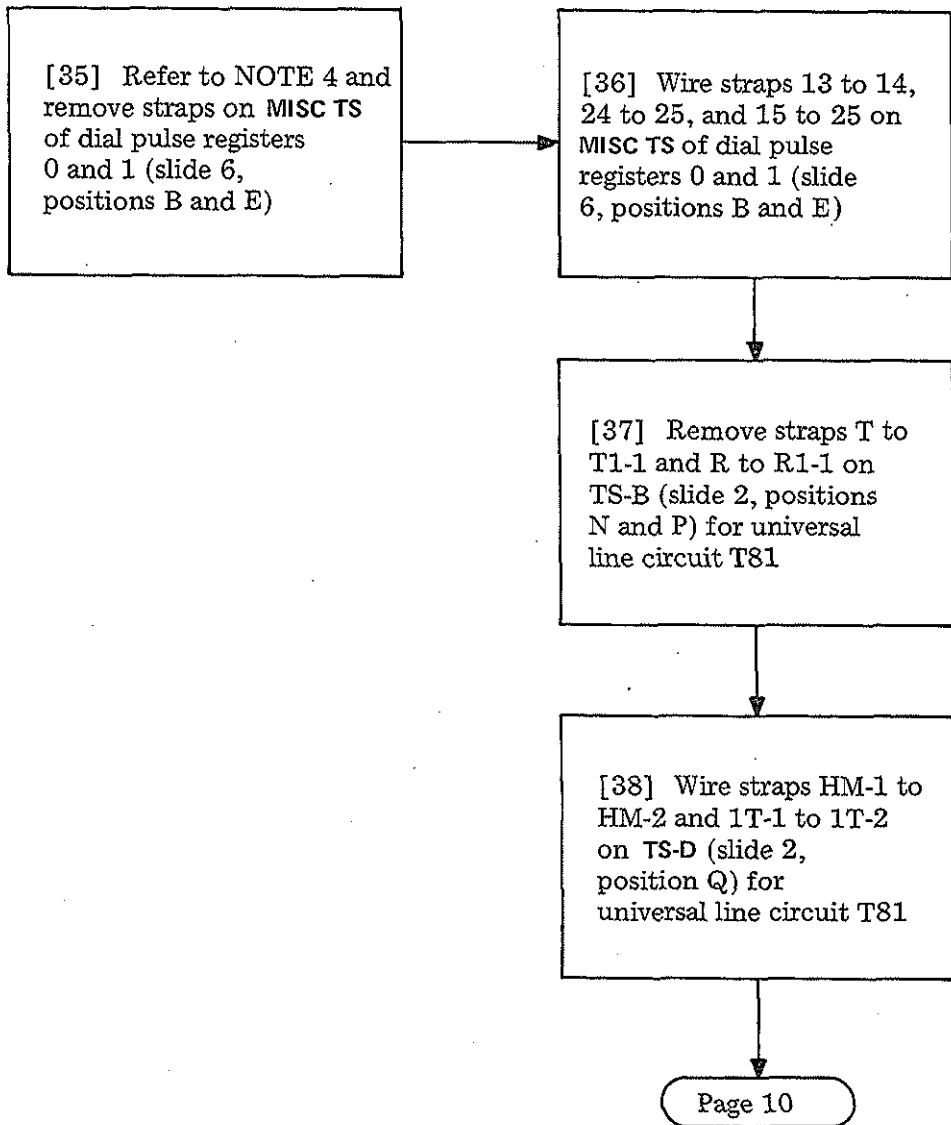


FIG. 2 — Typical Interface Connecting Block

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NOTE 4

Straps to be removed may be wired in either of the following arrangements:

13 23 24 ← or → 13 23 24

In either case, both straps are to be removed

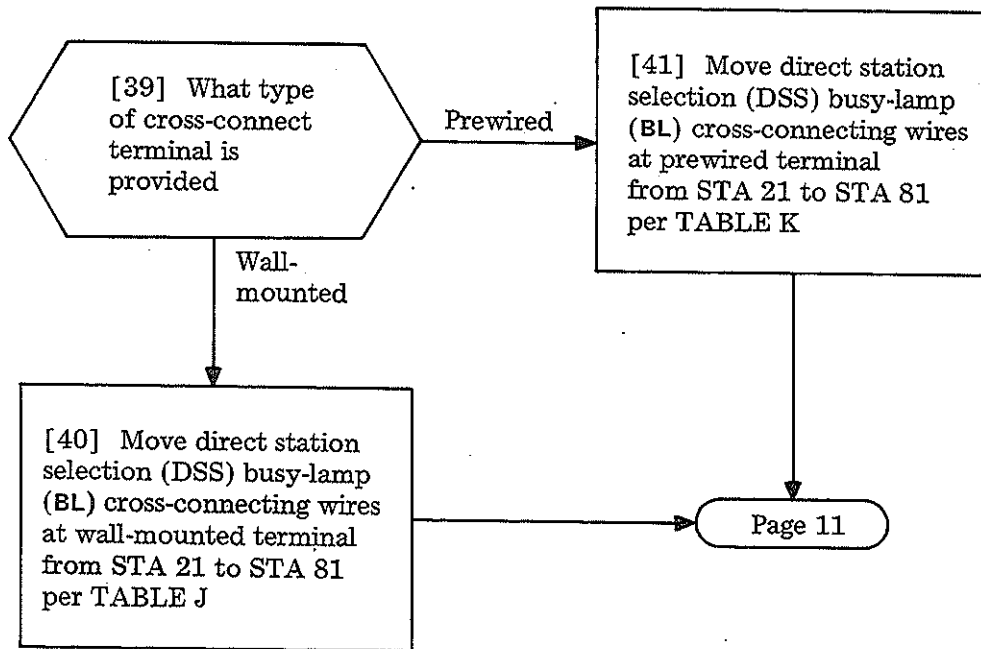


TABLE J

WALL TERMINAL

FROM				TO			
G-W BINDER BLOCK A10	COLOR	LEAD	TERM	BR-W BINDER BLOCK B10	COLOR	LEAD	TERM
	Y-BL	BL21	T16		Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
S-Y	BL28	R20	S-V	BL88	R25		

TABLE K

PREWIRED TERMINAL

FROM				TO			
G-W BINDER BLOCK B5	COLOR	LEAD	TERM	BR-W BINDER BLOCK B6	COLOR	LEAD	TERM
	Y-BL	BL21	T16		V-BL	BL81	T21
	BL-Y	BL20	R16		BL-V	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
S-Y	BL28	R20	S-V	BL88	R25		

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[42] At the DICTATION TRK, wire straps between terminals specified on TS(A) and TS(B) per TABLE L

[43] Is dictation machine start-stop controlled by voice or dial "1" operation

Voice

[44] At the DICTATION TRK, wire straps per TABLE N

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Dial "1"

[45] On DICTATION TRK, wire straps per TABLE M

[46] Is TOUCH TONE or ROTARY DIAL option provided [NOTE 5]

ROTARY DIAL

[47] On DICTATION TRK, wire straps on TS(C) per TABLE O

TOUCH TONE

[48] On DICTATION TRK, add straps between terminals 45 and 57 at TS(A) and terminals 18 and 28 at TS(C)

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NOTE 5
If both ROTARY and TOUCH-TONE dial stations access the TELEPHONE DICTATION TRK, use TOUCH-TONE options

TABLE L			
DICTATION TRUNK J58827E, LIST 1			
TS(A)		TS(B)	
TERMINAL NUMBERS	TERMINAL NUMBERS	TERMINAL NUMBERS	TERMINAL NUMBERS
46	56	34	44
○	○	○	○
		45	55
		○	○
		35	55
		○	○

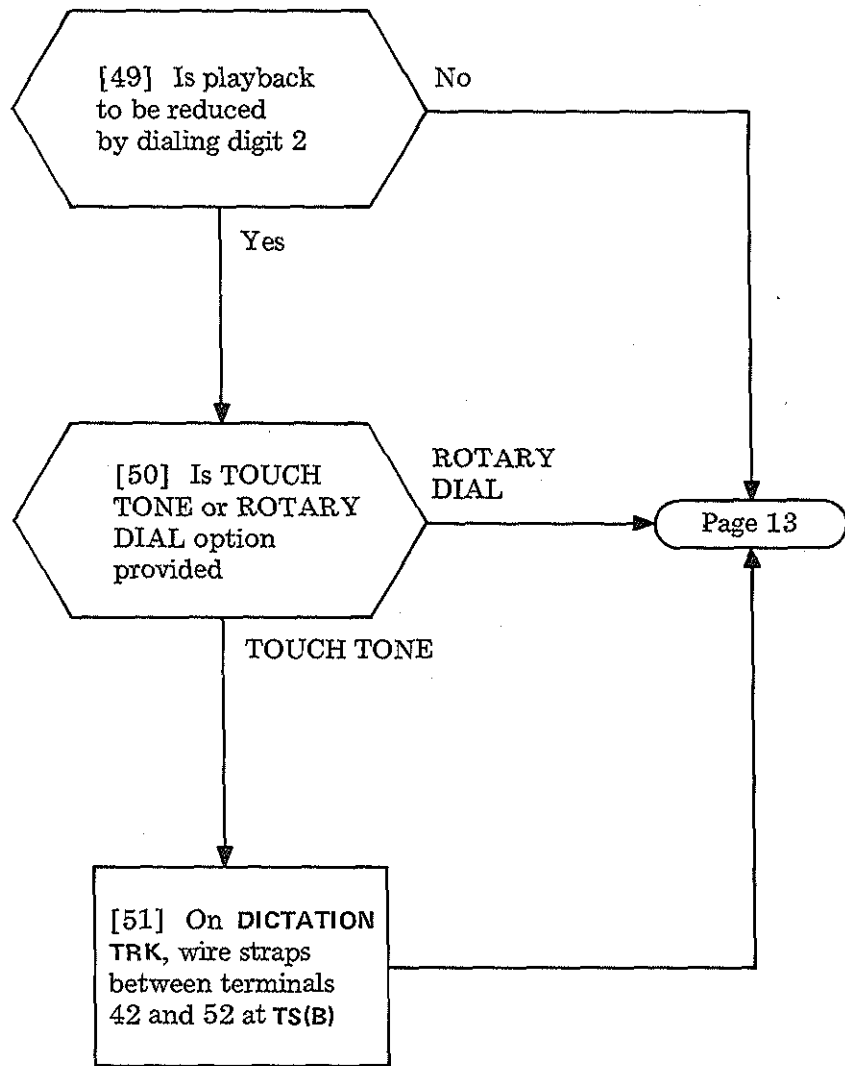


TABLE M			
DICTATION TRUNK J58827E, LIST 1			
TS(A)		TS(B)	
TERMINAL NUMBERS		TERMINAL NUMBERS	
11	21	18	57
○	○	○	○
		37	47
		○	○
		17	27
		○	○
		33	43
		○	○

TABLE N	
DICTATION TRK	
TS(B)	
TERMINAL	No.
15	54
○	○
47	57
○	○
24	34
○	○
23	33
○	○

TABLE O	
DICTATION TRK	
TS(C)	
TERMINAL	No.
48	58
○	○
28	38
○	○
18	57
○	○
47	57
○	○

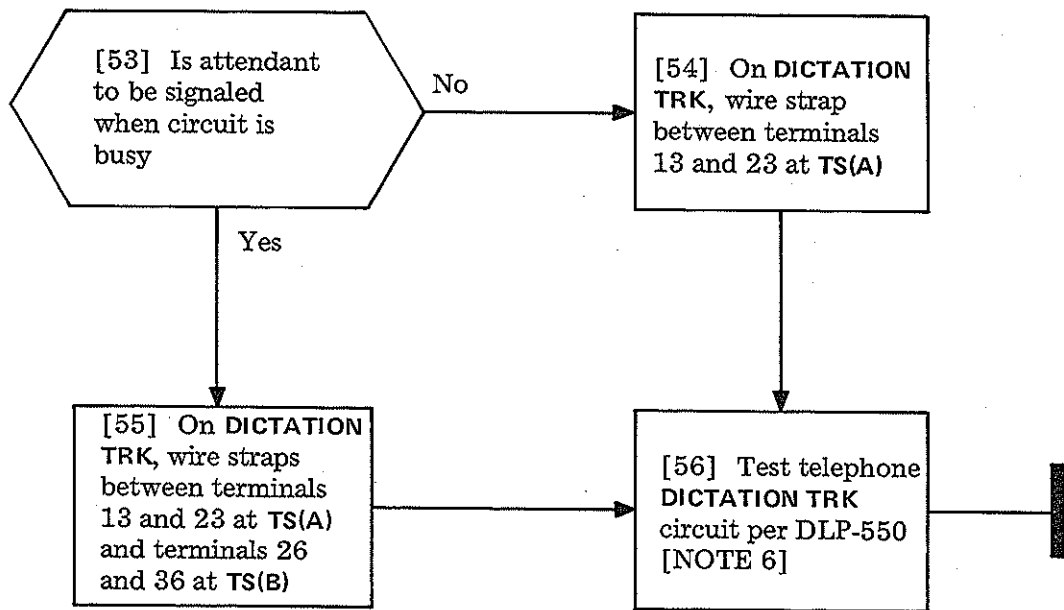
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[52] Refer to TABLE P and for the playback options specified, wire straps as required

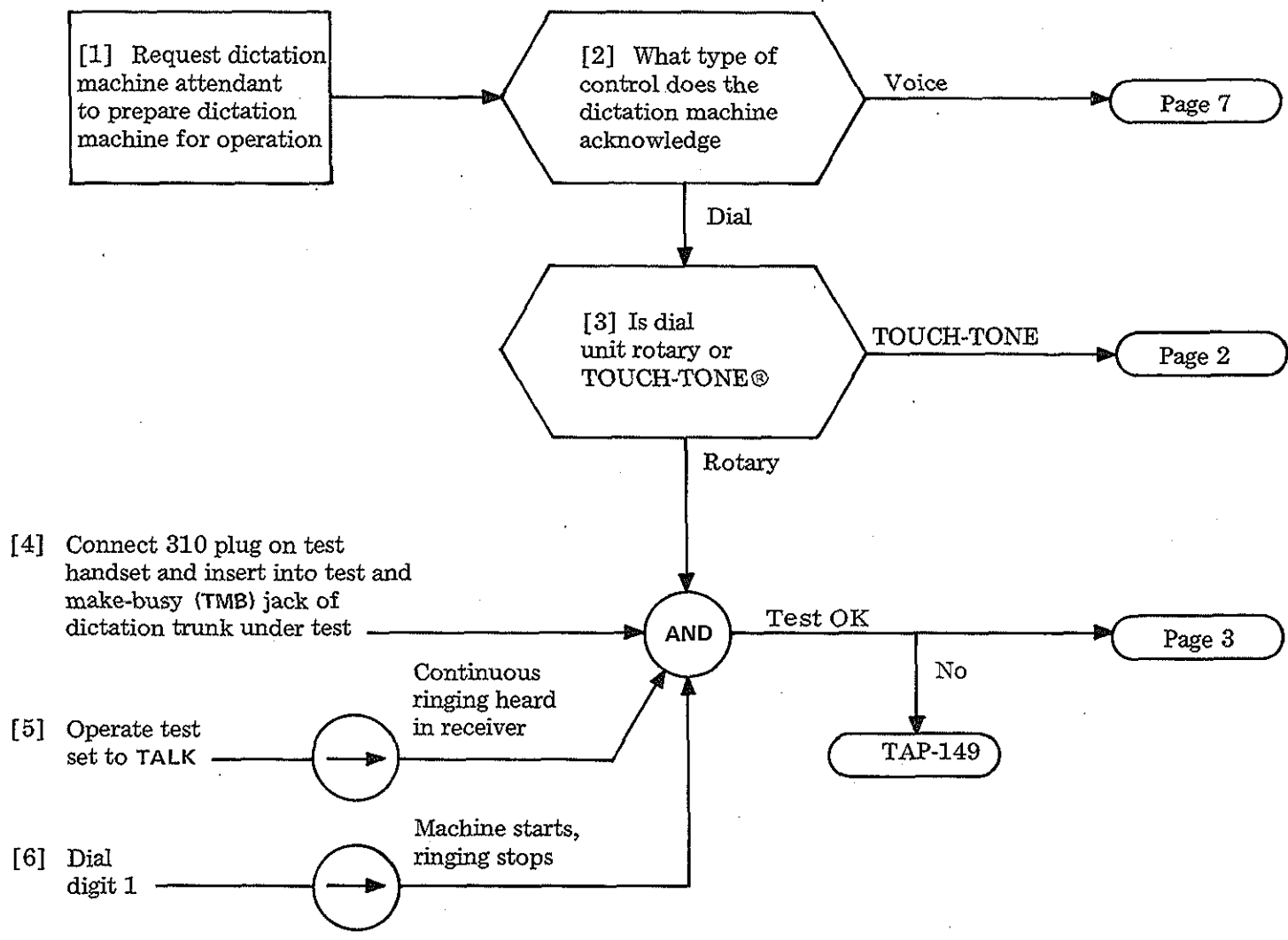
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TABLE P PLAYBACK OPTIONS				
PLAYBACK DESCRIPTION		OPTION GROUP (CHOOSE ONE)	DICTATION TRK J58827E, LIST 1	
			TS(B)	TS(C)
			TERM	TERM
Machine Provides End-of-Playback Sig.	No	1	48 58 ○—○	
Dial 3 Extends Playback	No			
Dial 1 Ends Playback	Yes			
Machine Provides End-of-Playback Sig.	Yes	2		
Dial 3 Extends Playback	No			
Dial 1 Ends Playback	Yes			
Machine Provides End-of-Playback Sig.	Yes	3	46 56 ○—○	13 14 ○—○
Dial 3 Extends Playback	Yes			
Dial 1 Ends Playback	Yes			
Machine Provides End-of-Playback Sig.	Yes	4	38 28 ○—○	
Dial 3 Extends Playback	Yes			
Dial 1 Ends Playback	No			
			46 56 ○—○	

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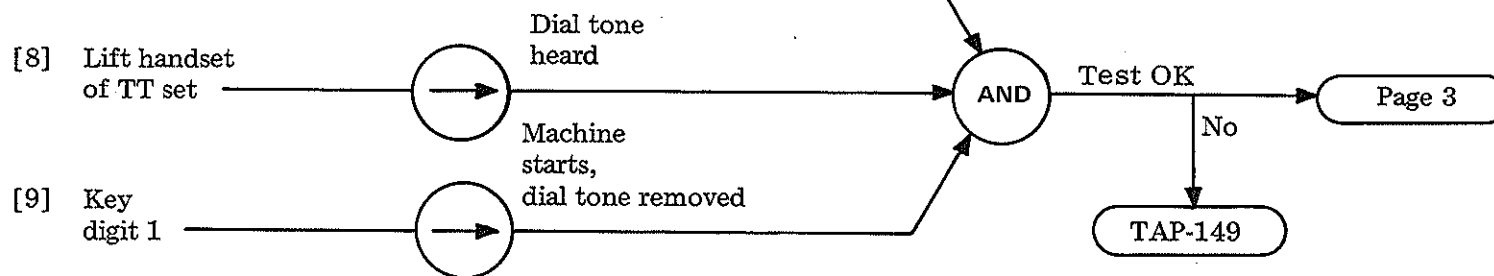
NOTE 6
 On a system installation, testing may be delayed until all options and features are installed



TEST RECORDED TELEPHONE DICTATION FEATURE

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[7] Connect 310 plug on cord of TOUCH-TONE (TT) set and plug into test and make-busy (TMB) jack of dictation trunk under test



[10] Speak plainly into handset transmitter, counting 1 to 10 slowly

[11] Dial or TT digit 3

[12] Dial or TT digit 1

[13] Dial or TT digit 1 and speak plainly into handset transmitter, counting 1 to 10 slowly

[14] Dial or TT digit 3, three times [NOTE 1]

[15] Dial or TT digit 1

[16] Dial or TT digit 2

Recorded numbers from about 6 to 10 should be heard

Playback stops, machine ready to record

Recorded numbers should be heard

Playback stops, machine ready to record

Correction indication marked on recording, momentary burst of dial tone heard



Test OK

No

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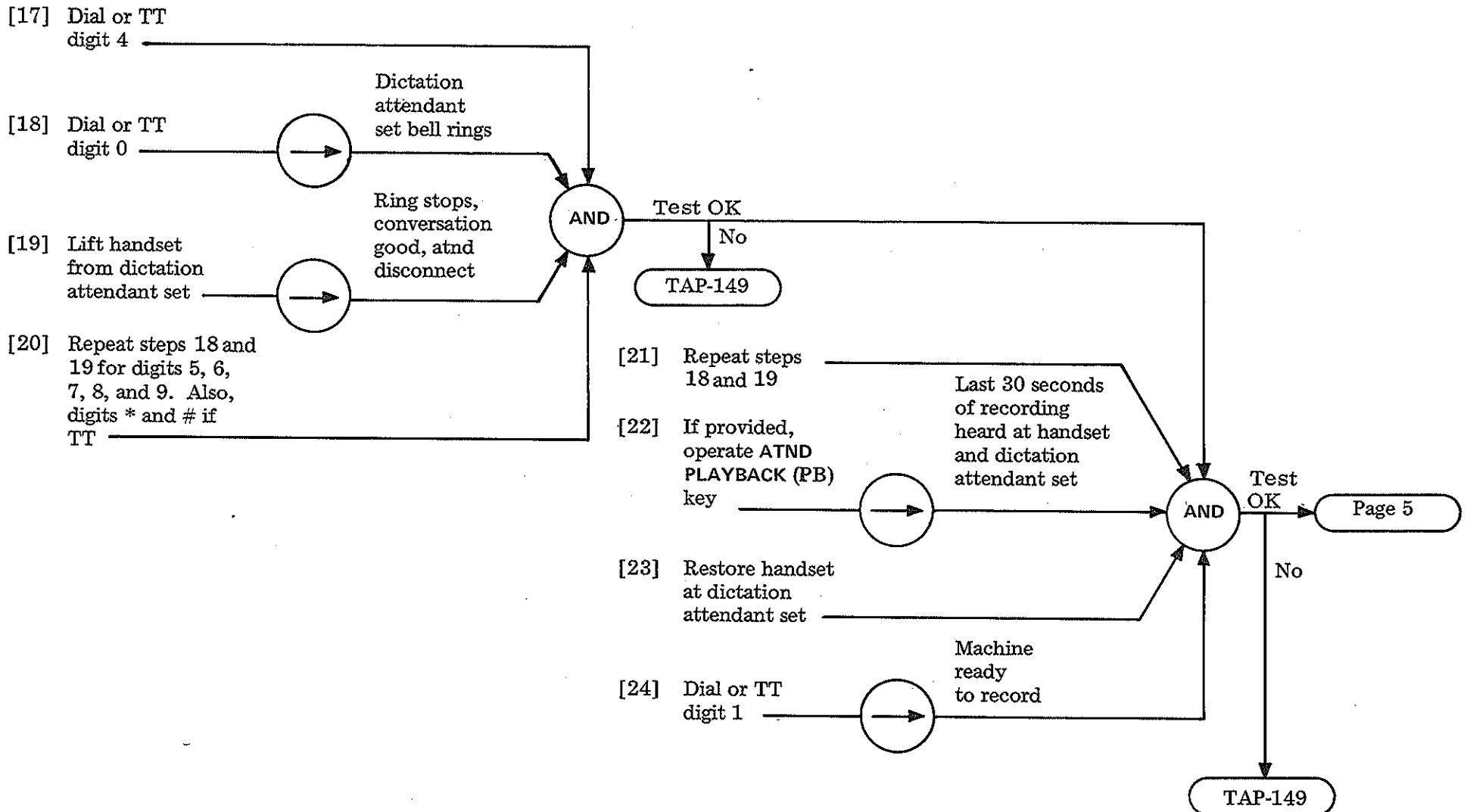
Test OK

No

TAP-149

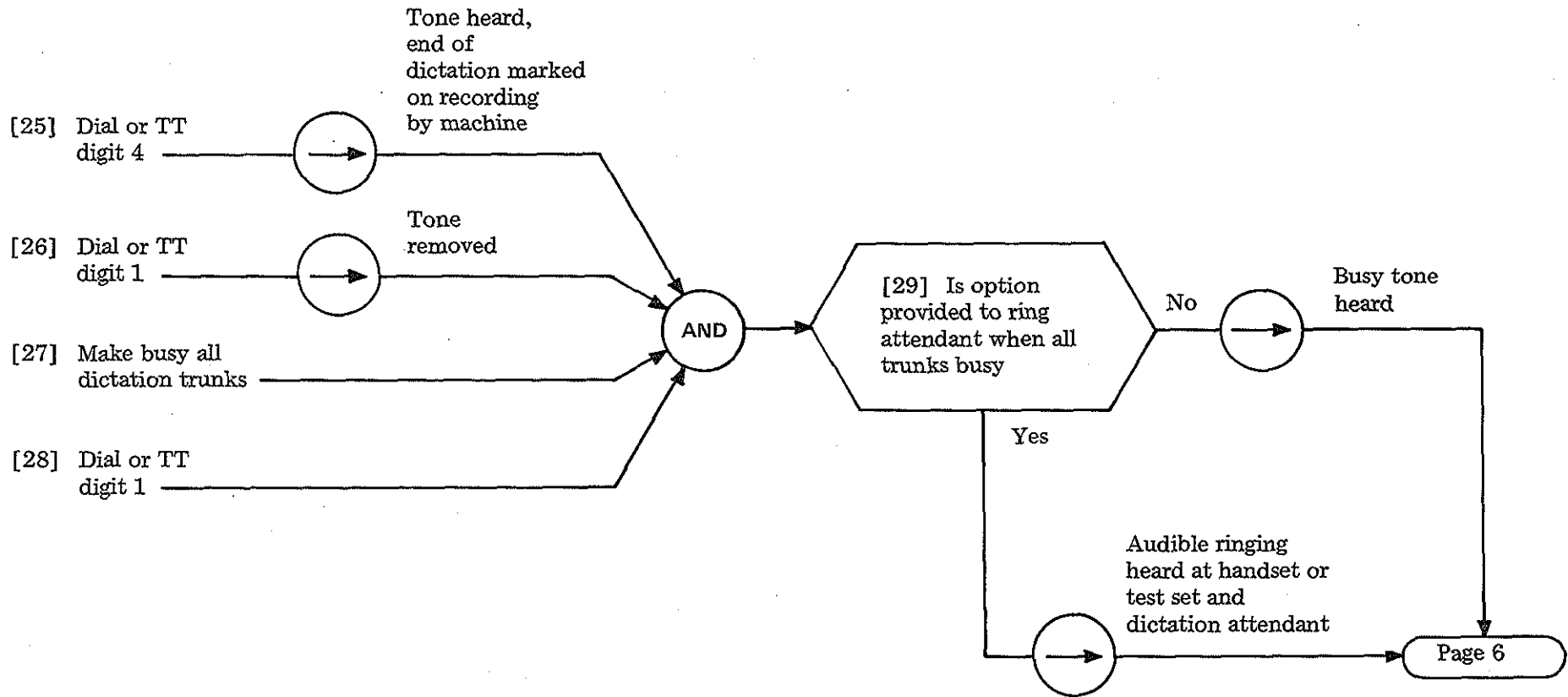
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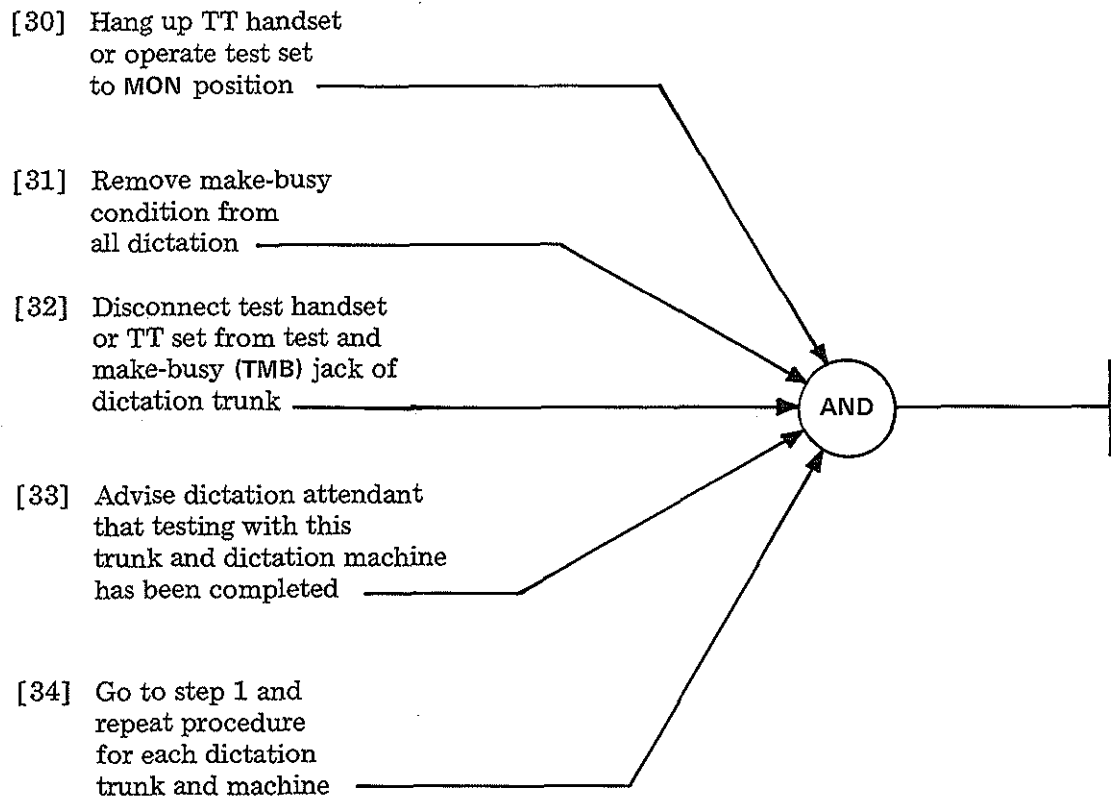
NOTE 1
Dialing digit 3, three times, for extended playback may not be provided. If not provided, recorded numbers from about 6 to 10 would only be heard.



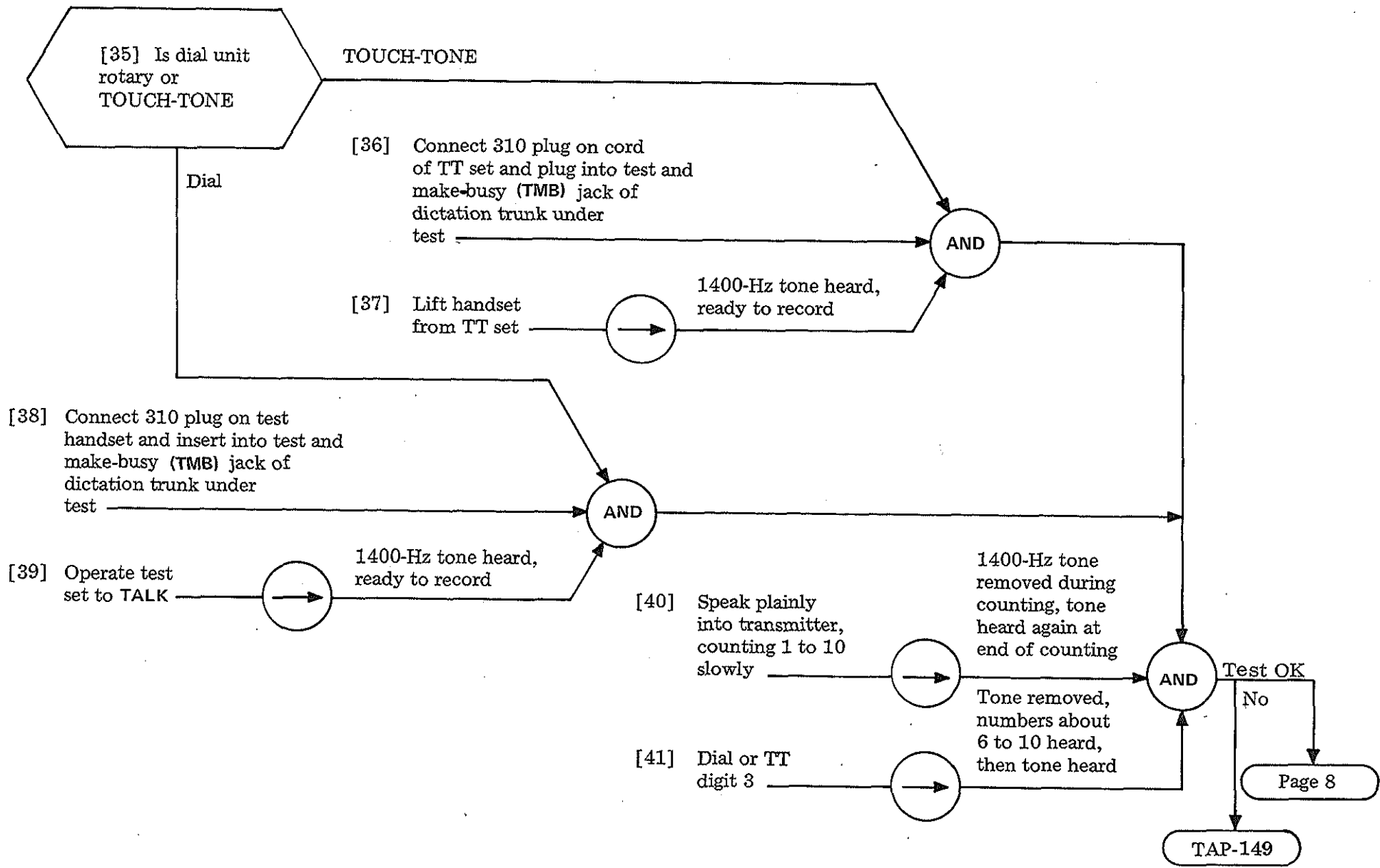
TEST RECORDED TELEPHONE DICTATION FEATURE

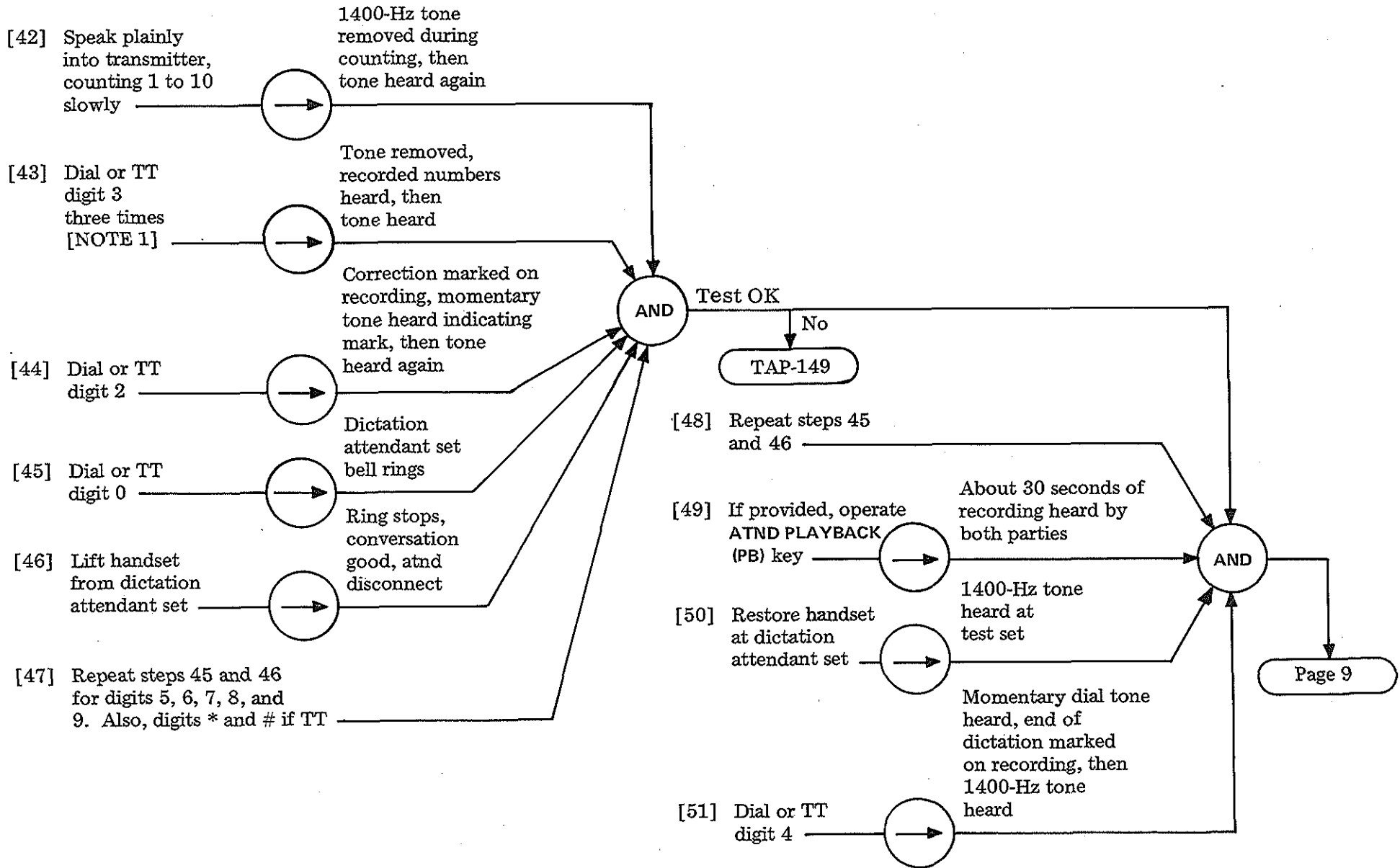
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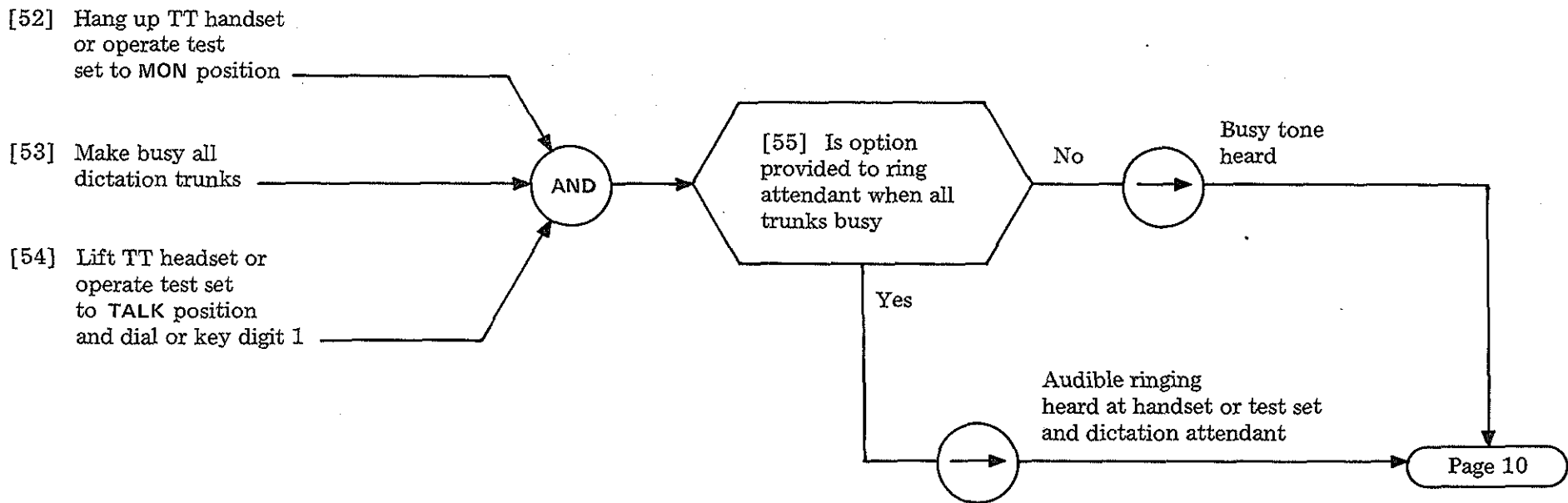
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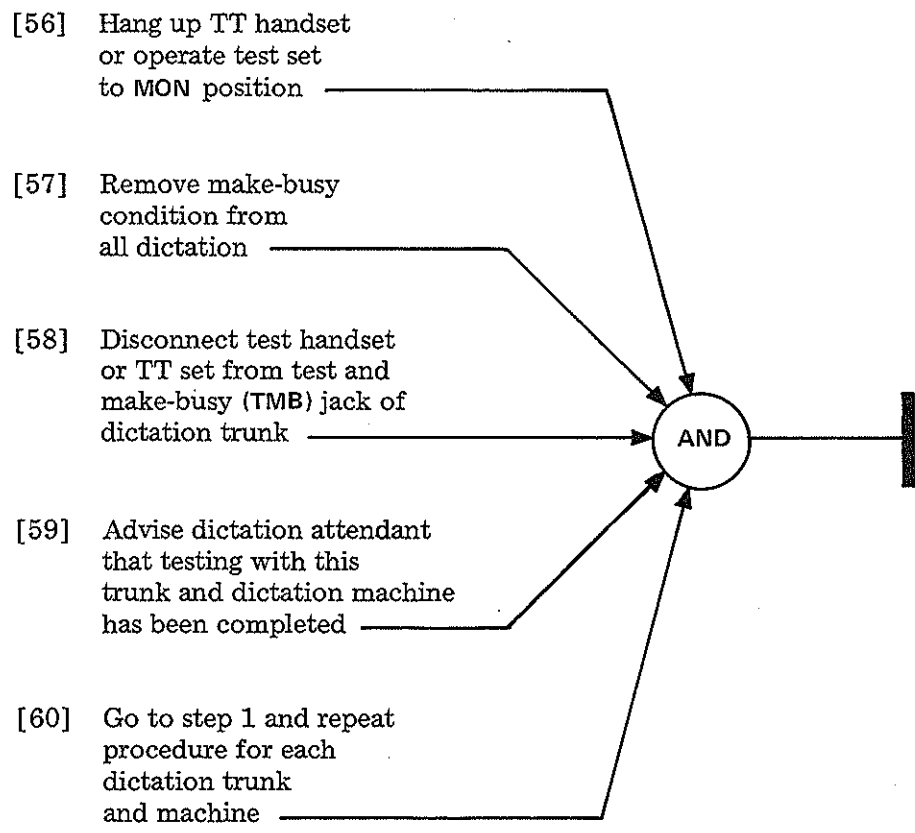




TEST RECORDED TELEPHONE DICTATION FEATURE

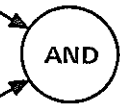
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[1] Unpack and mount ringdown tie trunk (RDTT) unit in slide 5
[NOTE 1 and TABLE A]

[2] Mate connectors on RDTT unit with front connectors on slide 5
[TABLE B]



RDTT unit mounted

[3] Is equipment for dial pulse registers 0 and 1, slide 6, position C and F, stamped SD-65746-01 or SD-65742-01

SD-65742-01

[5] Run strap 17 to 26 on MISC TS for dial pulse registers 0 and 1
[NOTE 2]

SD-65746-01

[4] Run strap 17 to 27 on MISC TS for dial pulse registers 0 and 1
[NOTE 2]

Page 2

2-digit dial 9 installed

TABLE A	
SLIDE FIVE	
PLUG-IN TRUNK POSITION	MOUNTING PLATE POSITION
3	G, H
4	K, L
8	T, U
9	W, X

TABLE B			
CONNECT TIE TRUNK		TO POSITION CIRCUIT	
CIRCUIT	CONNECTORS	MOUNTING PLATE POSITION	CONNECTORS
TRK 3	A,B	J	A,B
TRK 4	A,B	J	A,B
TRK 8	A,B	V	A,B
TRK 9	A,B	V	A,B

NOTES

1. Ringdown tie trunks must be mounted in plug-in central office trunk locations 3, 4, 8, or 9, beginning with 9. For each RDTT provided, one central office trunk must be deleted for a maximum of four RDTT circuits
2. These straps convert PBX from 1-digit dial 9 to 2-digit dial 9 in order for RDTT installed to be station dial selected for outgoing calls by dialing 2 digits; that is, 99, 98, 94, or 93

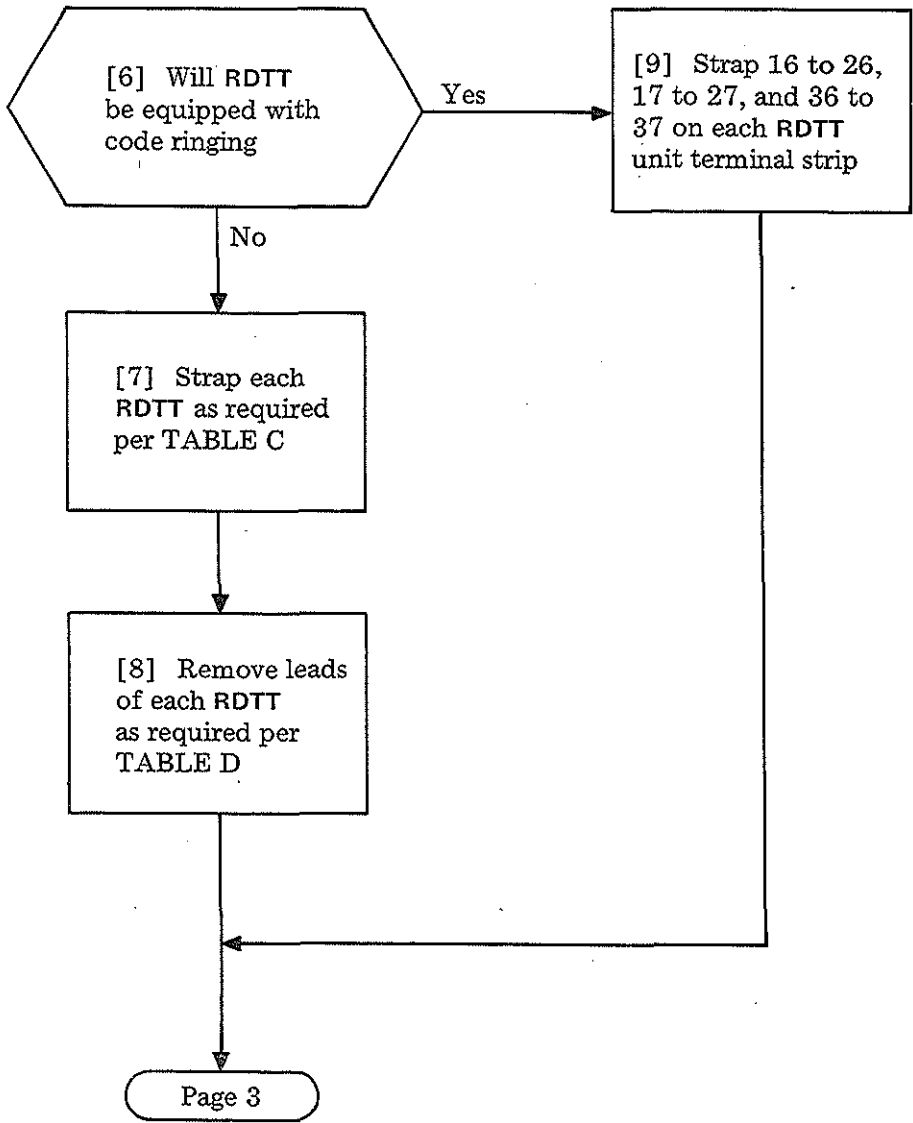


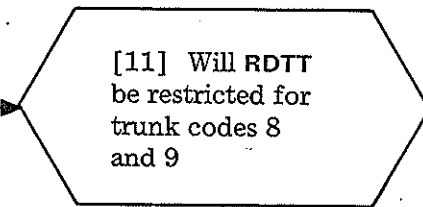
TABLE C STRAPS REQUIRED ON TIE TRUNK TERMINAL STRIP			
Incoming ringing direct, through repeat coil, or through bypassing capacitors	Loop 2000 Ω or more	22 ○ — ○ 32	11 ○ — ○ 21 14 ○ — ○ 24 15 ○ — ○ 25 27 ○ — ○ 37
Incoming ringing through blocking capacitors	Loop 1500 Ω or more	12 ○ — ○ 22 21 ○ — ○ 31	34 ○ — ○ 35 23 ○ — ○ 33
	Loop under 1500 Ω	22 ○ — ○ 32	

TABLE D LEADS TO BE REMOVED AT CROSS CONNECTION TERM							
TRUNK UNIT	BINDER	LEAD COLOR	WALL TERMINAL			PREWIRED TERMINAL	
			BLOCK	LEAD DESIG	PAIR	BLOCK	PAIR
9	O-W	V-BL BL-V	B5	STT STR	T21 R21	D1	R20 T21
8		Y-S S-Y	B5	STT STR	T20 R20	D1	R19 T20
4		Y-BR BR-Y	B5	STT STR	T19 R19	D1	R18 T19
3		Y-G G-Y	B5	STT STR	T18 R18	D1	R17 T18

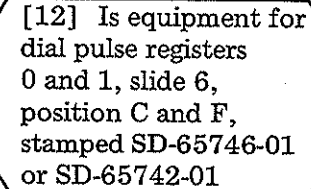
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[10] Remove straps as plug-in locations are assigned [TABLE E and FIG. 1]

CO trunk hunt removed



Yes



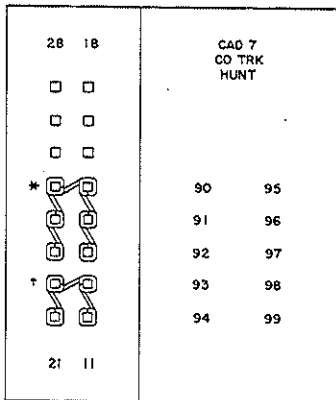
SD-65742-01

SD-65746-01

[13] Remove strap 18 to 28 on MISC TS for dial pulse registers 0 and 1

[14] Remove strap 37 to 38 on MISC TS for dial pulse registers 0 and 1

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* HUNTING ON TRUNK GROUP 0, 1, 2, 5, 6, AND 7
 † HUNTING ON TRUNK GROUP 3, 4, 8, AND 9

FIG. 1

TABLE E STRAPS TO BE REMOVED	
TRUNK UNIT	TERMINAL STRIP ON TRUNK CONNECTOR SLIDE 4 POSITION Z
9	27 ○ — ○ 28 11 ○ — ○ 12
8	26 ○ — ○ 27 12 ○ — ○ 22
4	17 ○ — ○ 18 21 ○ — ○ 22
3	16 ○ — ○ 17

Trunk hunting straps

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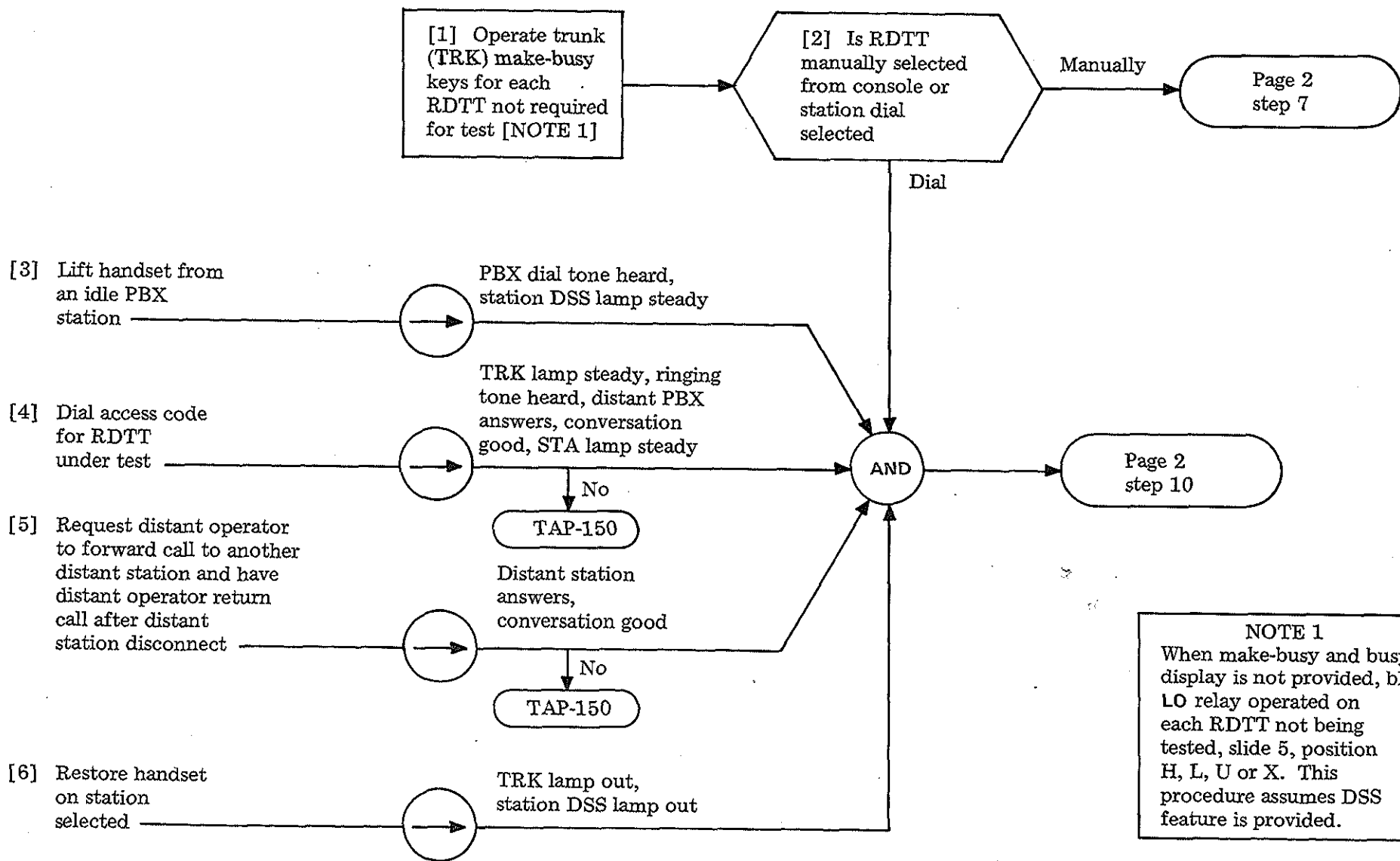
[15] Run cross-connections for RDTT from wall cross-connect terminal or from prewired cross-connect terminal to central office feeder cable [TABLE F]

[16] Test tie trunks per DLP-552. See NOTE 3

NOTE 3

On a system installation, testing may be delayed until all options and features are installed.

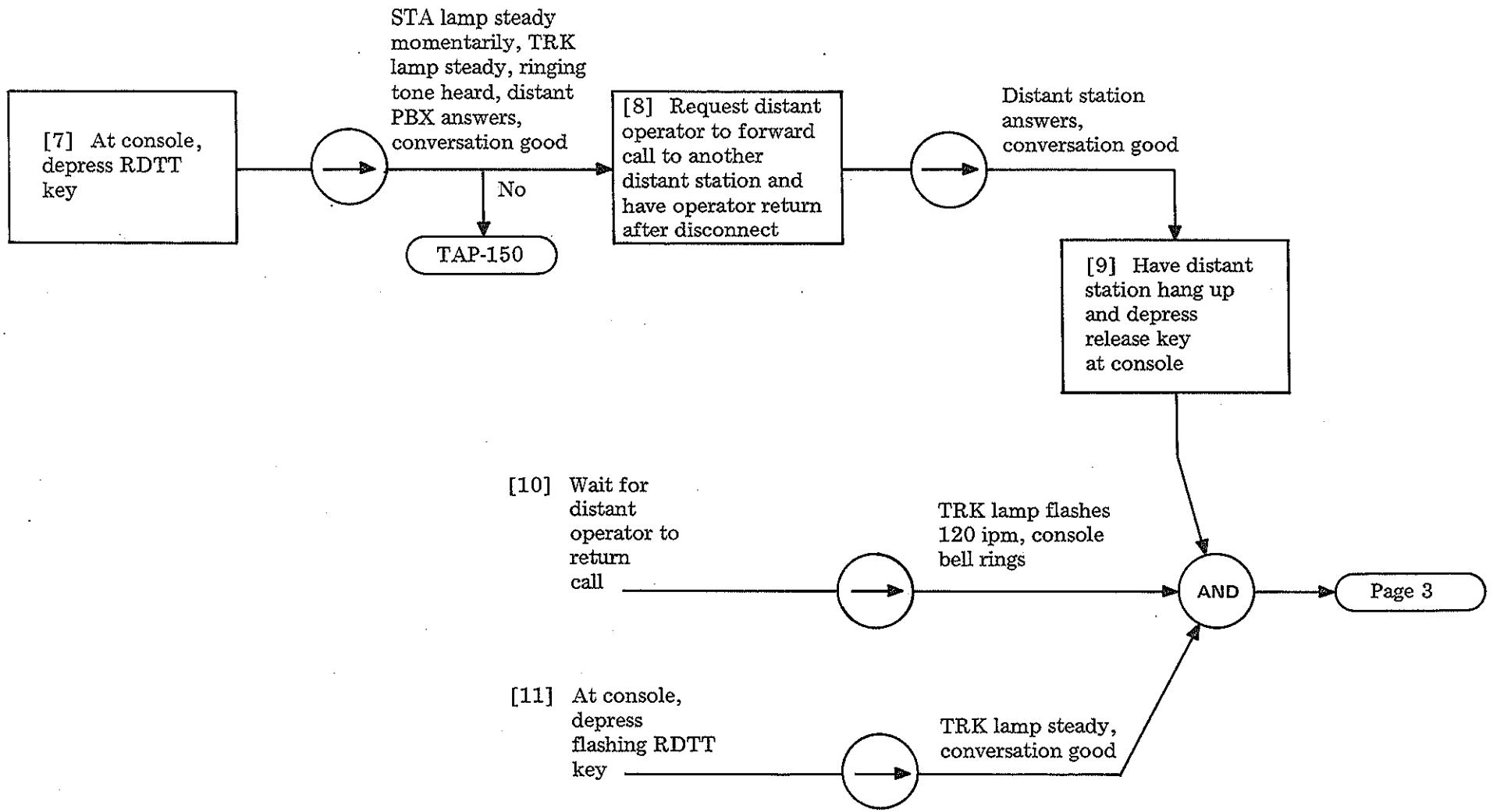
TABLE F							
TRUNK UNIT	BINDER	LEAD COLOR	WALL TERMINAL			PREWIRED TERMINAL	
			BLOCK	LEAD DESIG	PAIR	BLOCK	PAIR
9	BR-W	BK-O O-BK	B6	T R	T12 R12	B1	T20 R20
8		R-G G-R	B6	T R	T8 R8	B1	T19 R19
4	G-W	Y-O O-Y	A6	T R	R17 R17	B1	T15 R15
3		BK-G G-BK	A6	T R	T13 R13	B1	T14 R14



NOTE 1
 When make-busy and busy display is not provided, block LO relay operated on each RDTT not being tested, slide 5, position H, L, U or X. This procedure assumes DSS feature is provided.

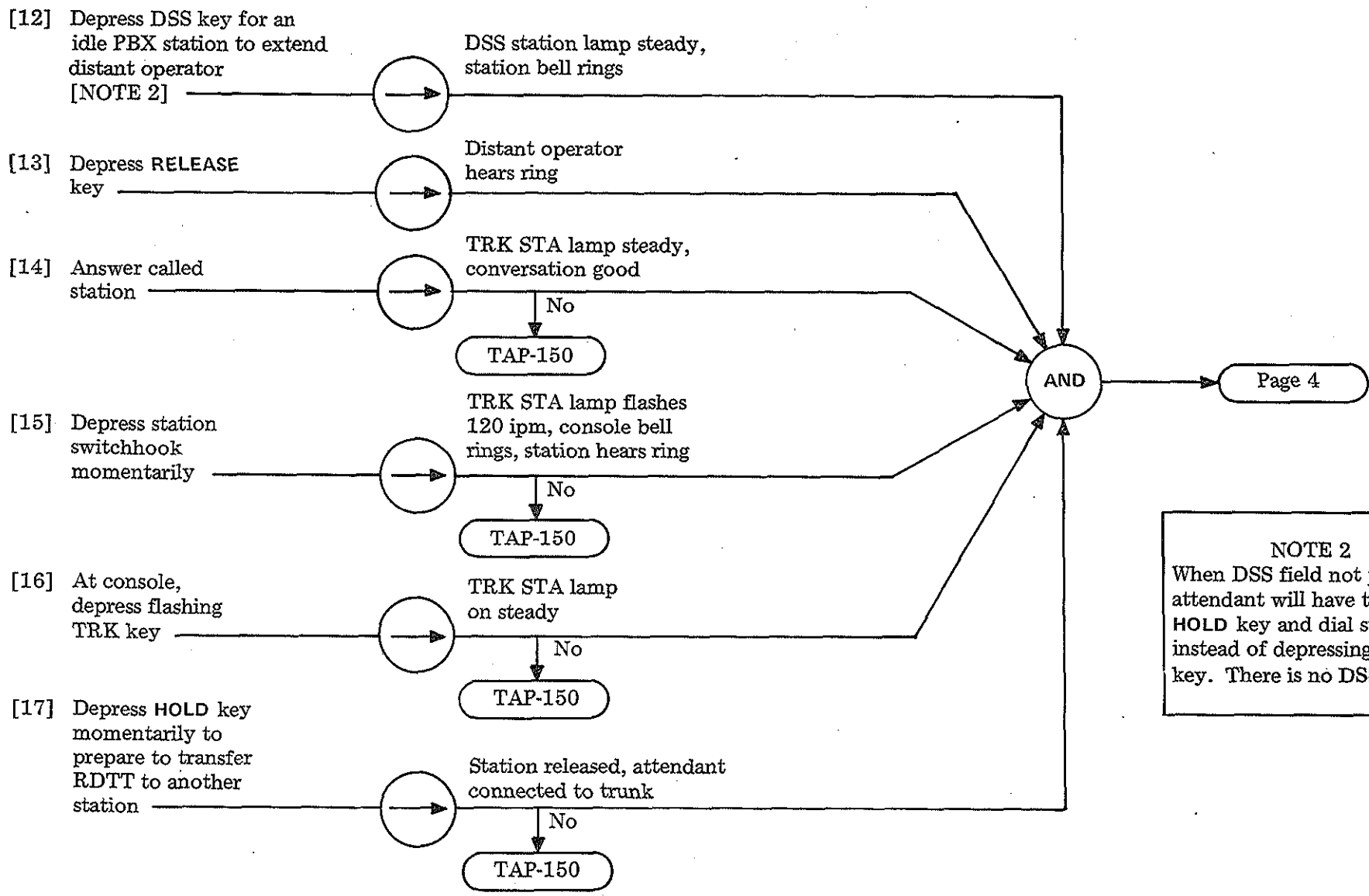
TEST RINGDOWN TIE TRUNKS (RDTT)

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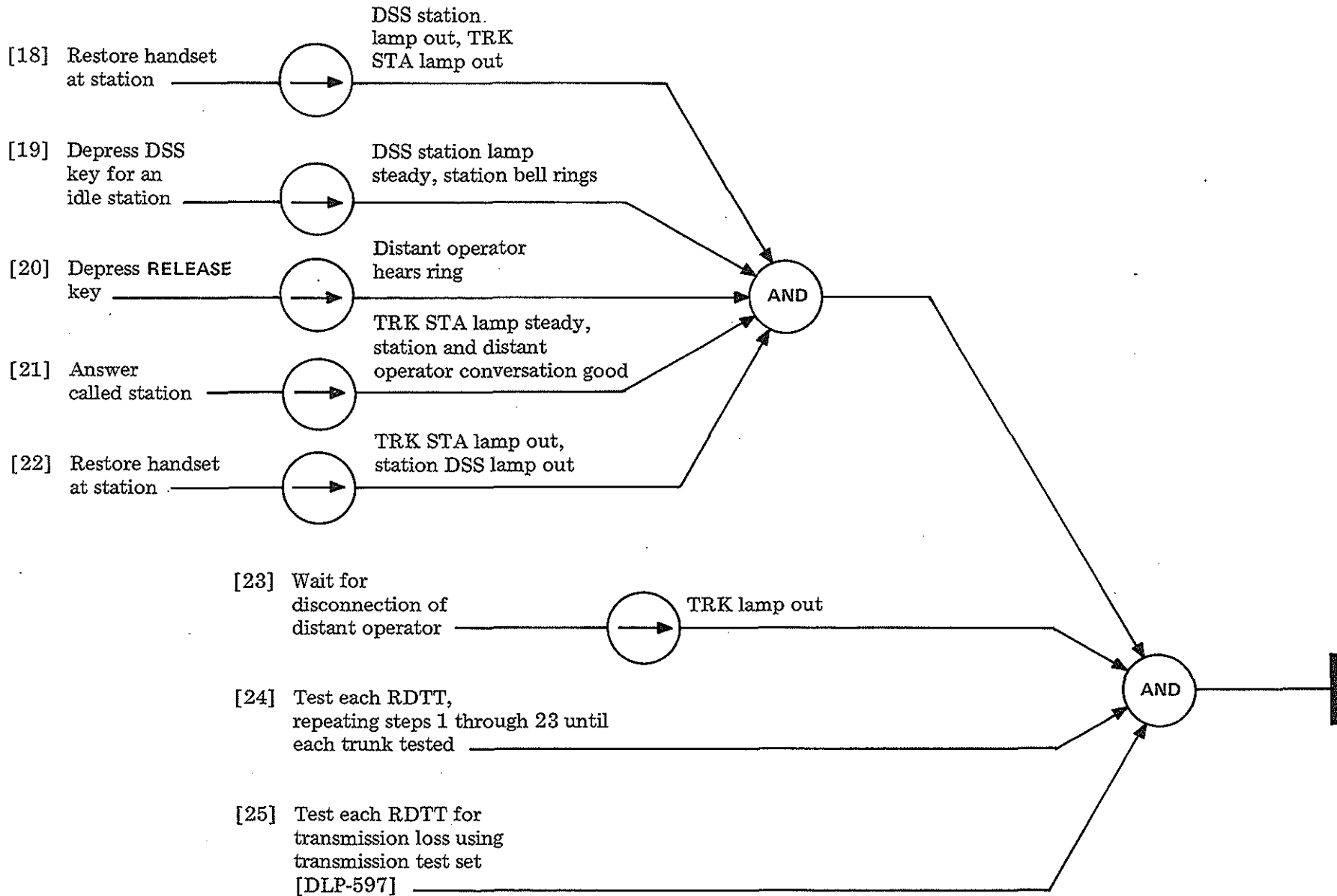


TEST RINGDOWN TIE TRUNKS (RDTT)

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NOTE 2
 When DSS field not provided, attendant will have to depress **HOLD** key and dial station instead of depressing DSS key. There is no DSS lamp



TEST RINGDOWN TIE TRUNKS (RDTT)

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[1] Unpack and mount conference equipment J58829AD, in slide 2, positions X, Y, Z, and AA

[2] Unpack and plug conference bridge unit J99294AA-1 into connector CA (slide 2, position X) on front of conference unit

[3] Connect P1 connector (slide 2, position X) to C1 connector on wiring side (rear) of conference unit

AND

[4] Install and connect J58829A, L31 [FIG. 1] interslide cable

[5] Wire leads from local cable form to apparatus or terminal strips on tie trunk adapter unit per TABLE A

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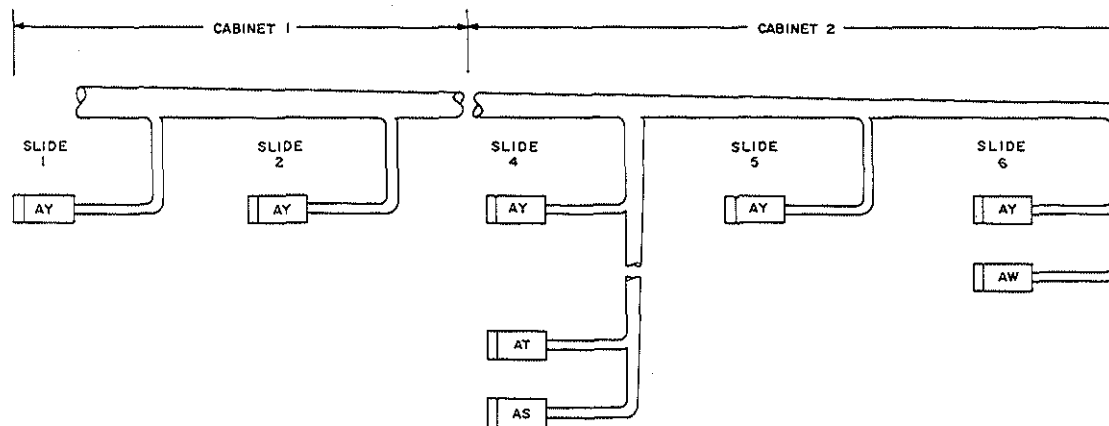


FIG. 1

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TABLE A

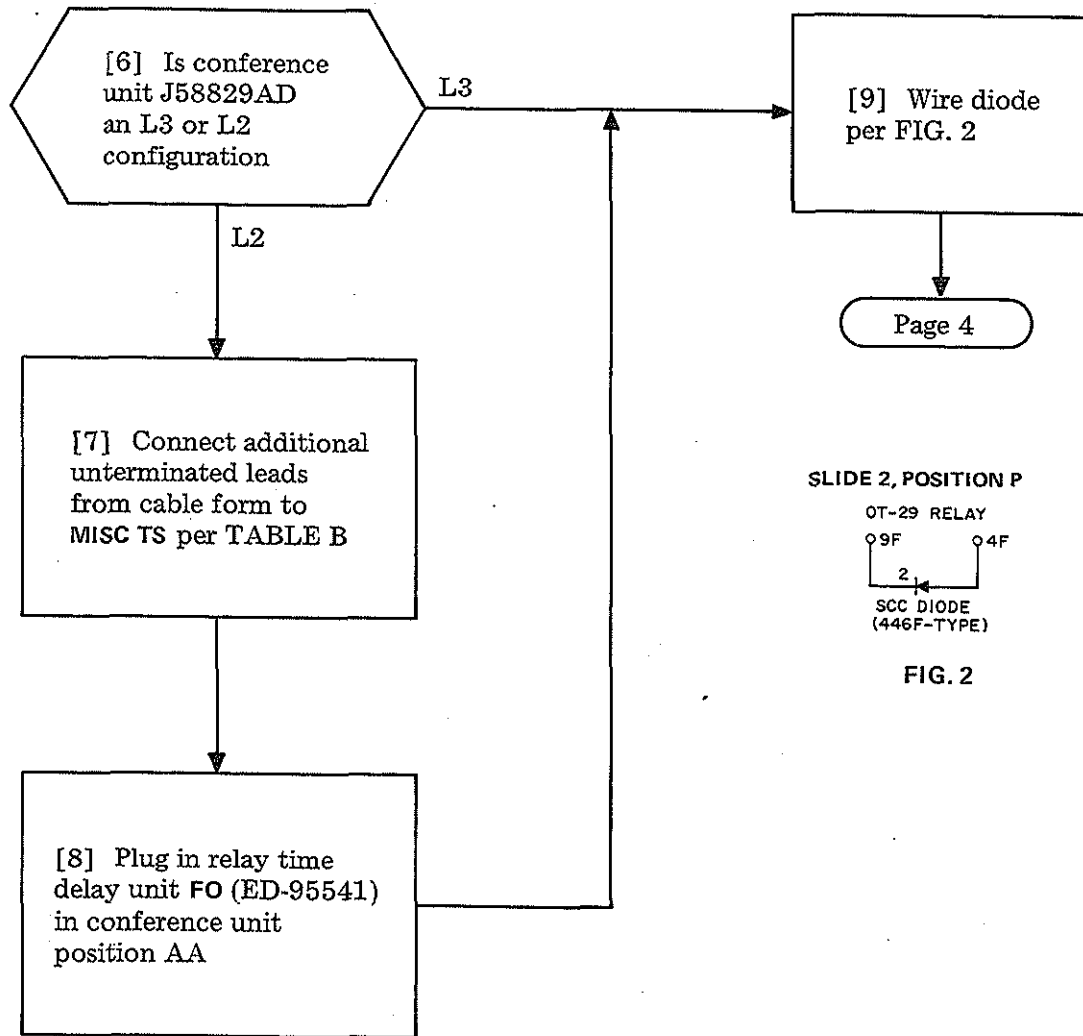
PLUG P1 SLIDE 2 POS X	LEAD COLOR	LEAD DESIG	APPARATUS IN TIE TRK ADAPTER ON SLIDE 2						LEAD COLOR	CONN AY2 (IN CROWN)
			MISC TS POS P	TS-A POS P	TRK TS-B POS P	TS-D POS Q	TRK B & REL POS L	OT REL POS P		
3 ←	BR	R1	○56							
4 ←	R-G	BAT-T		BAT-T84					W	4
16 ←	R-BL-W	GRD-T		GRD-T84					R-S	
17 ←	BR-W	RG	○58							
25 ←	BL	D8						10M		
26 ←	S-W	HM2					HM2 T89			
							IT-1 T89		BR	ITS: C 18
								OT-89		
27 ←	R-S	OTG								
33 ←	G	T1-1			T1-1	Port 1				
34 ←	G-W	R1-1			R1-1	Trk 85				
35 ←	R-O	S1			S1					
36 ←	BK	T1-1			T1-1	Port 2				
37 ←	BK-W	R1-1			R1-1					
38 ←	R-BR-W	S1			S1	Trk 86				
39 ←	R-G	T1-1			T1-1					
40 ←	R-S	R1-1			R1-1	Port 3				
41 ←	R-G-W	S1			S1					
42 ←	BL	T1-1			T1-1	Port 4				
43 ←	BL-W	R1-1			R1-1					
44 ←	R-O-W	S1			S1	Trk 87				
45 ←	O	T1-1			T1-1					
46 ←	O-W	R1-1			R1-1	Port 5				
47 ←	R-BL-W	S1			S1					
48 ←	BR	T2			T2-T84	Port 0*				
49 ←	BR-W	R2			R2-T84					
50 ←	O-G	S2			S2-T84					
					TS-B Pos N					

* Port 0 is the access port for the conference circuit

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TABLE B			
PLUG P1 SLIDE 2 POS X	LEAD COLOR	LEAD DESIG	TIE TRUNK
			MISC TS POS P*
9 ←	R	S	○ 33
12 ←	BR-W	MON 2	○ 42
13 ←	BR	MON 1 - SL	○ 32
14 ←	G-W	R	○ 22
15 ←	G	T	○ 12

* Slide 2



SLIDE 2, POSITION P

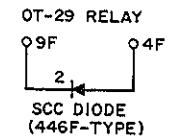


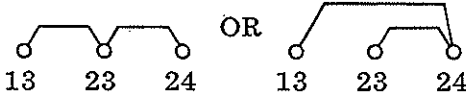
FIG. 2

[10] Refer to NOTE 1 and remove straps on MISC TS of dial pulse registers 0 and 1 (slide 6, positions B and E)

[11] Wire straps 13 to 14, 24 to 25, and 15 to 25 on MISC TS of dial pulse registers 0 and 1 (slide 6, positions B and E)

[12] Remove straps T to T1-1 and R to R1-1 on TS-B (slide 2, positions N and P) for each universal line circuit (84 thru 89) used for conference circuit

NOTE 1
Straps to be removed may be wired in either of the following arrangements:



In either case both straps are to be removed

[13] Remove straps CS to TLA for universal line circuits 24 through 29 on LINE TS (slide 2, position M)

[14] Wire straps HM-1 to HM-2 and IT-1 to IT-2 on TS-D (slide 2, position Q) for universal line circuit 84 (port 0)

[15] Wire strap CS to COT for line circuit 89 on TS-A (slide 2, position P)

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[16] Wire straps R2 to T1-1, T2 to R1-1, and S2 to S1 for universal line circuit 89 on TS-B (slide 2, position P)

[17] What type of cross-connect terminal is provided

Prewired

[19] Move direct station selection (DSS) busy-lamp (BL) cross-connecting wires at prewired terminal from STA 20-29 to STA 80-89 per TABLE D as required

Wall-mounted

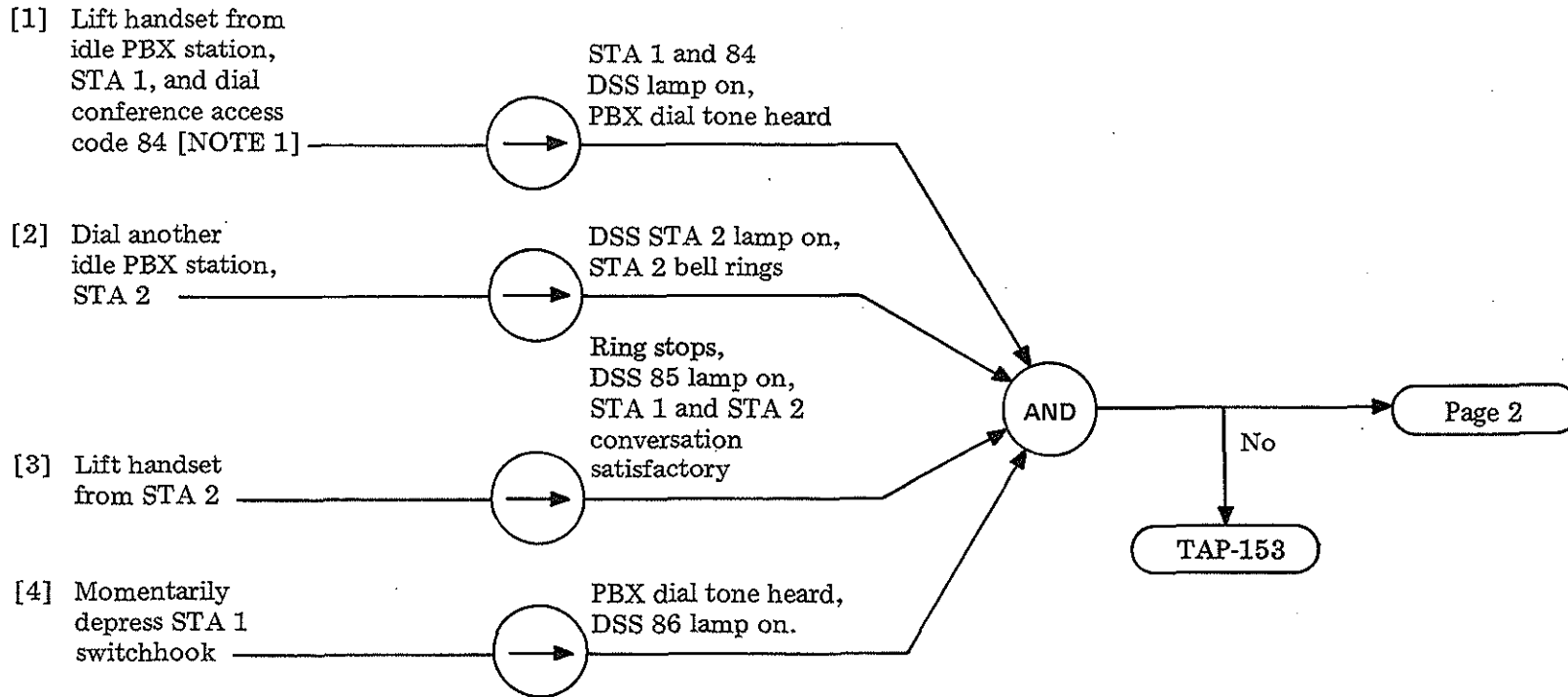
[18] Move direct station selection (DSS) busy-lamp (BL) cross-connecting wires at wall-mounted terminal from STA 20-29 to STA 80-89 per TABLE C as required

[20] Test conference circuit per DLP-554 [NOTE 2]

NOTE 2
On a system installation testing may be delayed until all options and features are installed

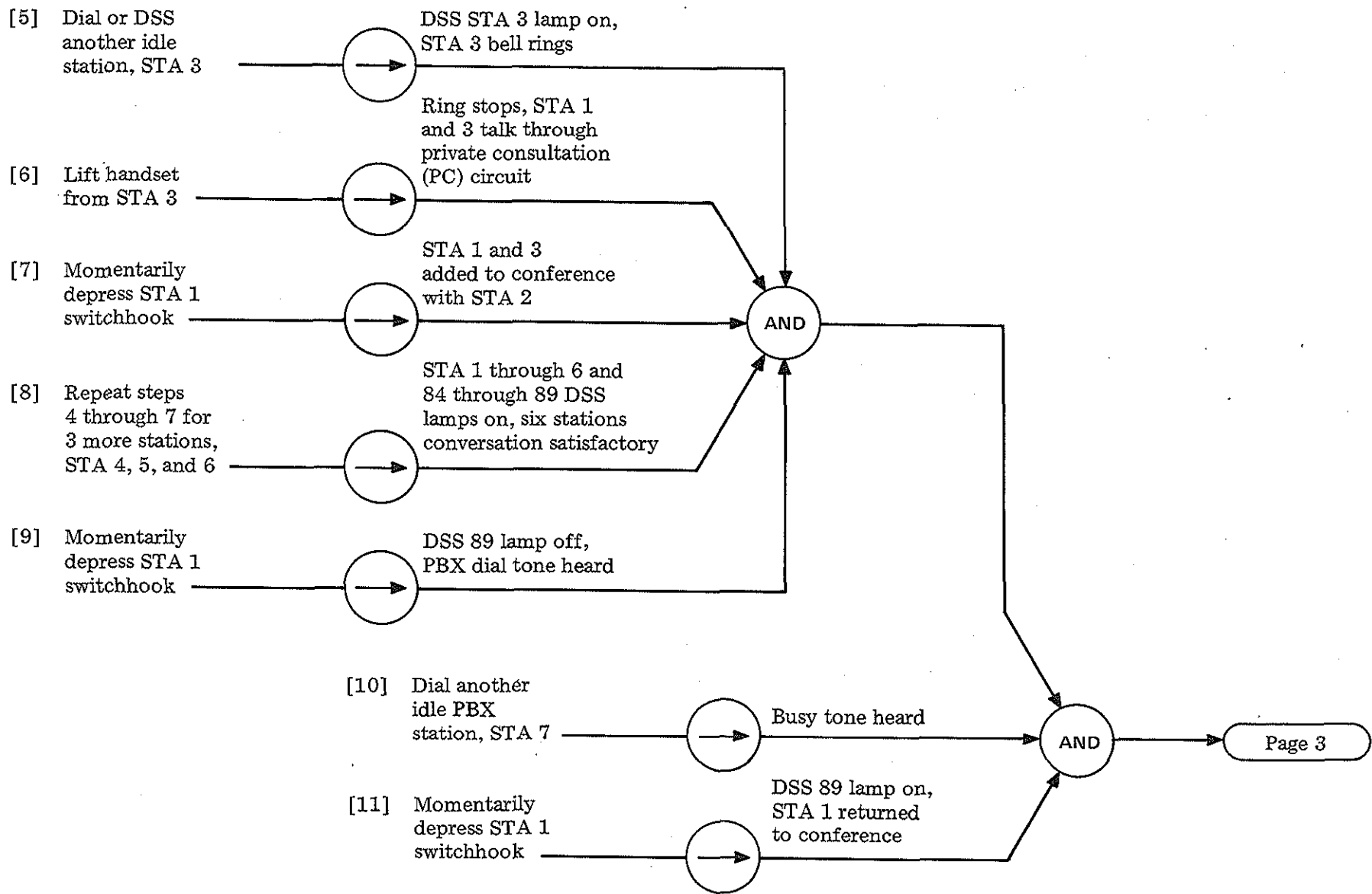
TABLE C							
WALL TERMINAL							
FROM				TO			
G-W BINDER BLOCK A10	COLOR	LEAD	TERM	BR-W BINDER BLOCK B10	COLOR	LEAD	TERM
	Y-BL	BL21	T16		Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
	S-Y	BL28	R20		S-V	BL88	R25

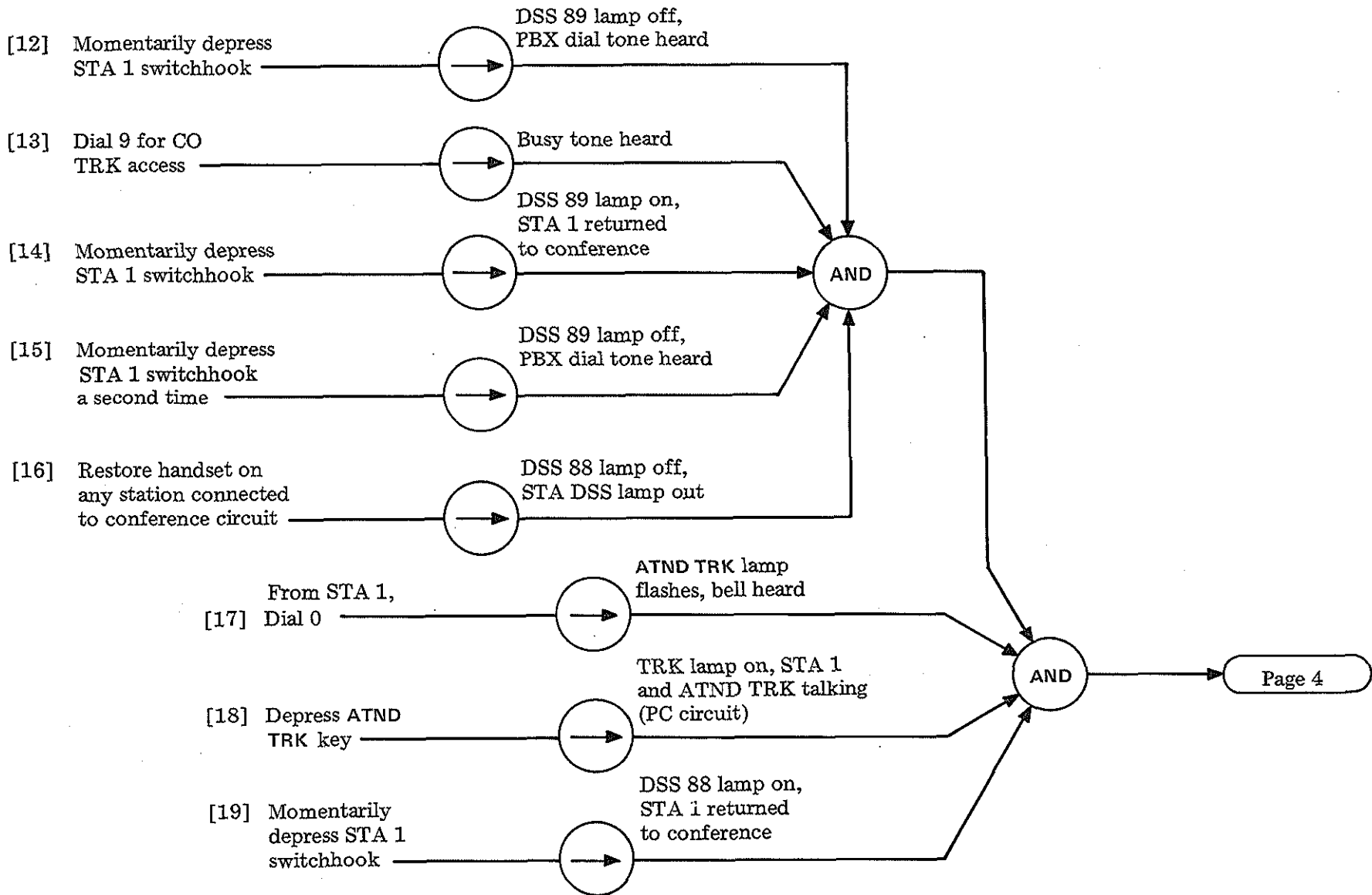
TABLE D							
PREWIRED TERMINAL							
FROM				TO			
G-W BINDER BLOCK B5	COLOR	LEAD	TERM	BR-W BINDER BLOCK B6	COLOR	LEAD	TERM
	Y-BL	BL21	T16		V-BL	BL81	T21
	BL-Y	BL20	R16		BL-V	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19		BR-V	BL86	R24
	Y-S	BL29	T20		V-S	BL89	T25
	S-Y	BL28	R20		S-V	BL88	R25

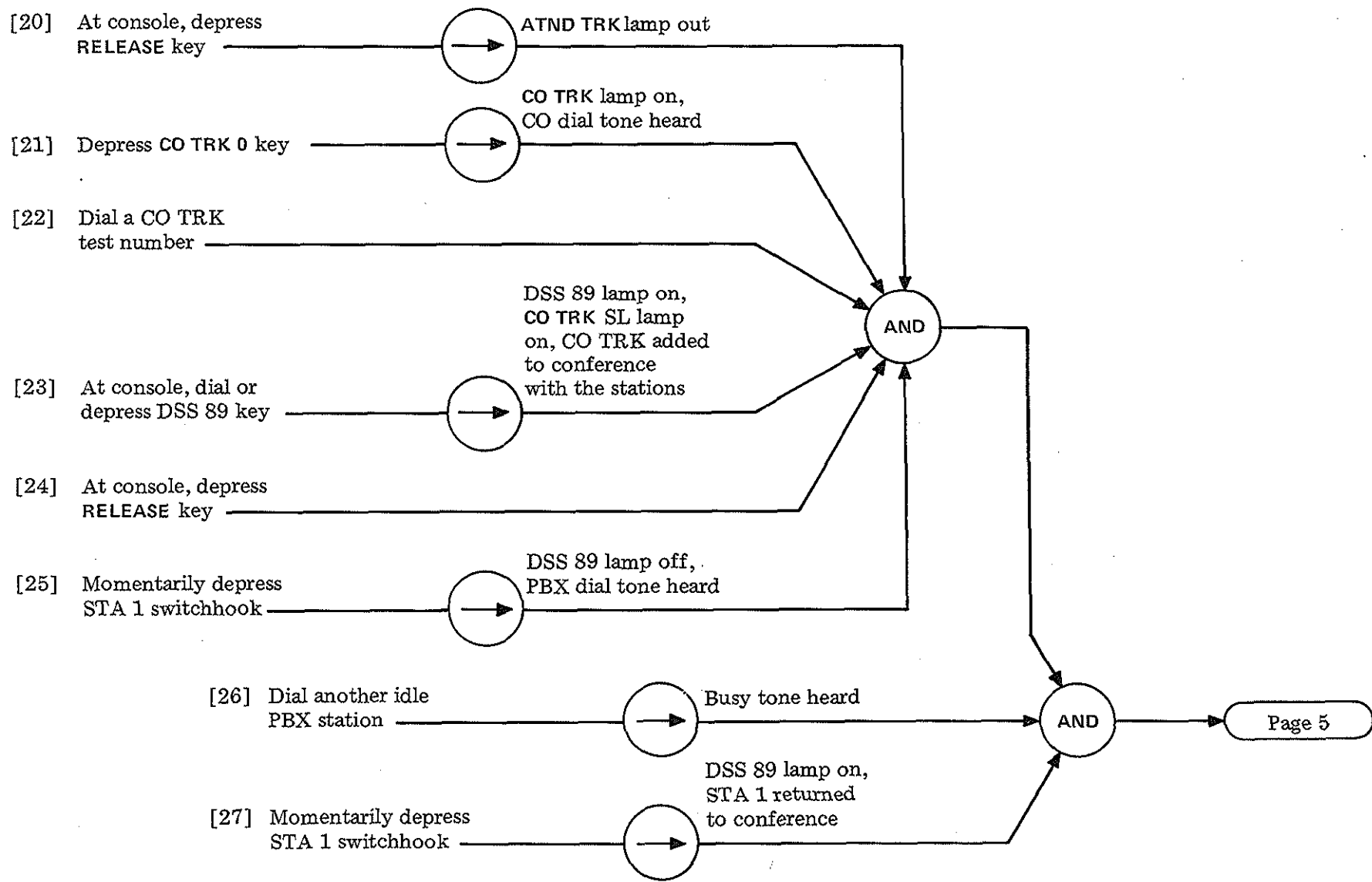


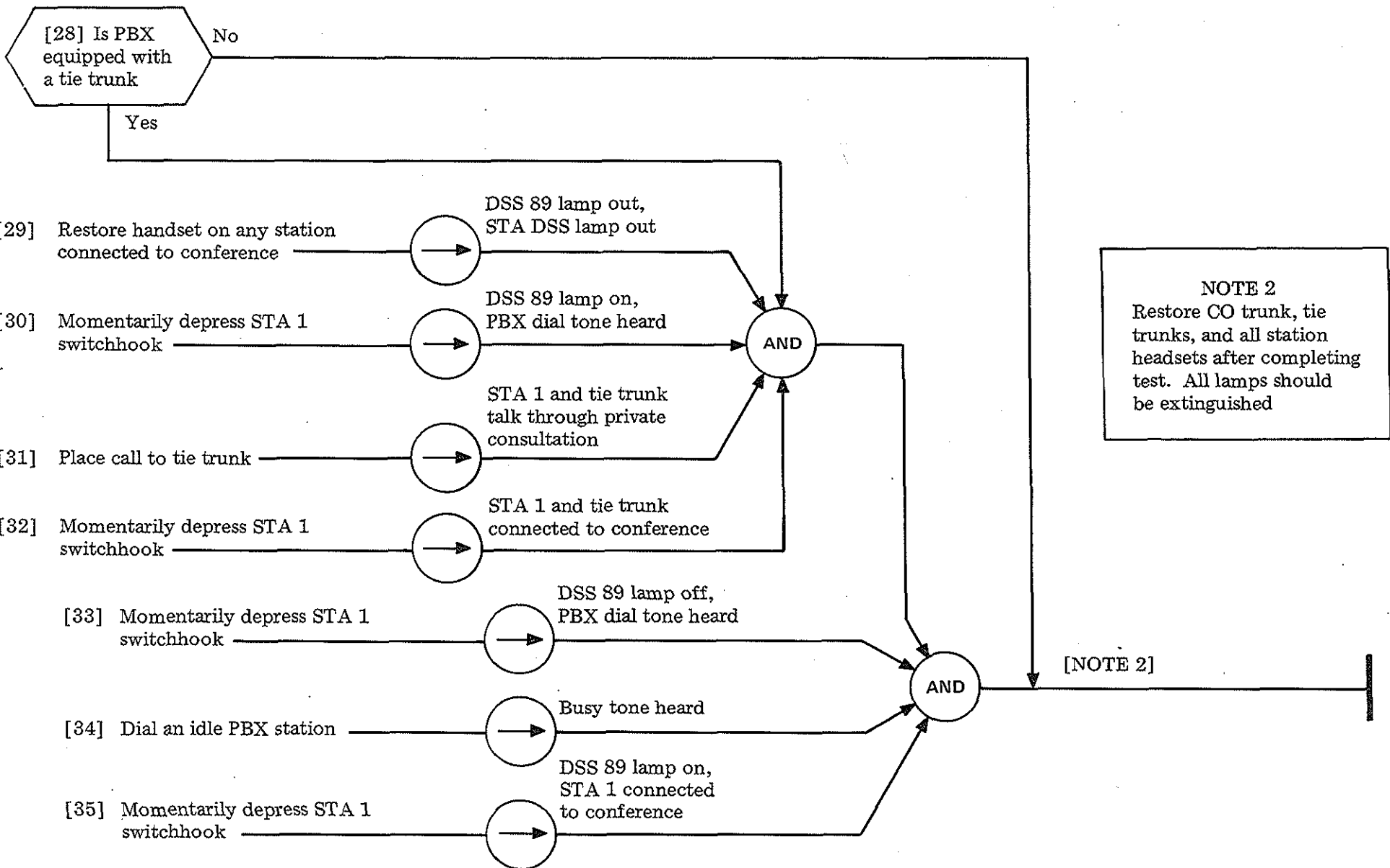
NOTE 1

Access for control station is 84 with other codes 85-89. It is possible for codes to be 80-85 or other sequences in the universal trunk numbers. Codes do not have to run consecutively









NOTE 2
 Restore CO trunk, tie trunks, and all station headsets after completing test. All lamps should be extinguished

TEST STATION-CONTROLLED DIAL CONFERENCE FEATURE

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- [1] Mount an external apparatus cabinet, 16C apparatus mounting [FIG. 1] or equivalent [NOTE 1]

NOTE 1
PBX switching cabinets must be L38 or later for IR to be compatible with PBX

- [2] Unpack and mount the inward restriction (IR) equipment J58829AL, L1 in the external apparatus cabinet [FIG. 2 and NOTE 2]

NOTE 2
Inward restriction equipment J58829AL, L1 requires two 2 x 23 inch mounting plates. This unit may be mounted with other equipment in a cabinet

- [3] Remove shorting plugs from PBX crown connectors AJ2, AK2, AJ3, AK3, AJ4, AK4, and AK6

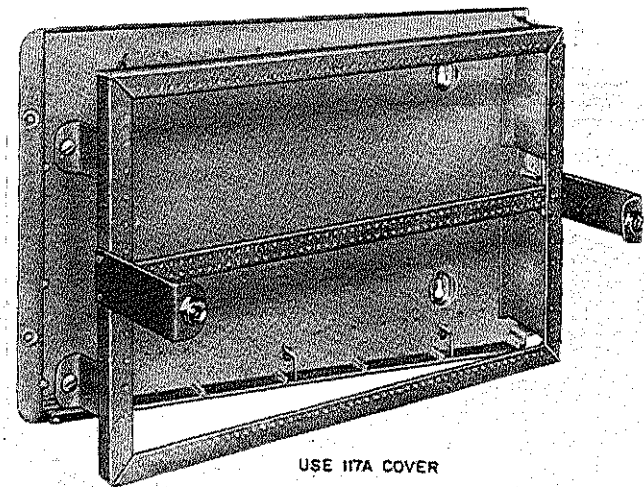


FIG. 1-16C Apparatus Mounting

- [4] Place 75-pair connector-ended cable J58829AL, L2 [FIG. 3] from PBX crown to external cabinet

- [5] Mate plugs to crown connectors per FIG. 3

- [6] Mate cable amphenol connectors 1, 2, and 3 to connectors on inward restriction equipment



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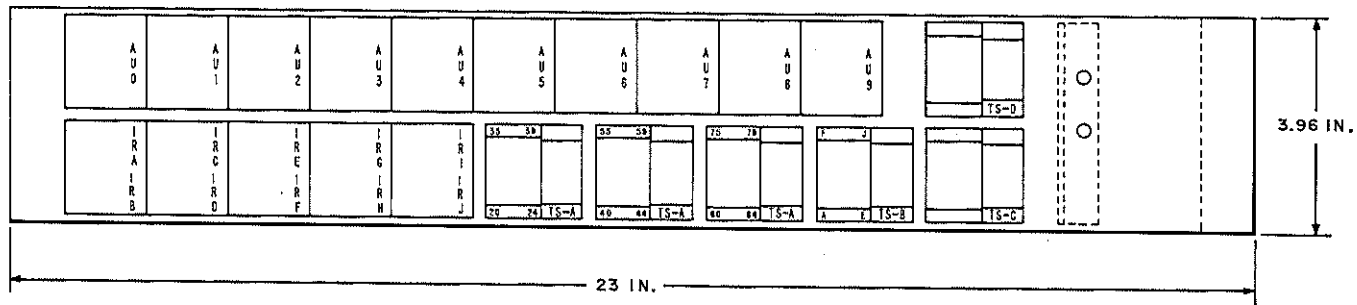


FIG. 2—Inward Restriction Unit—J58829AL, List 1

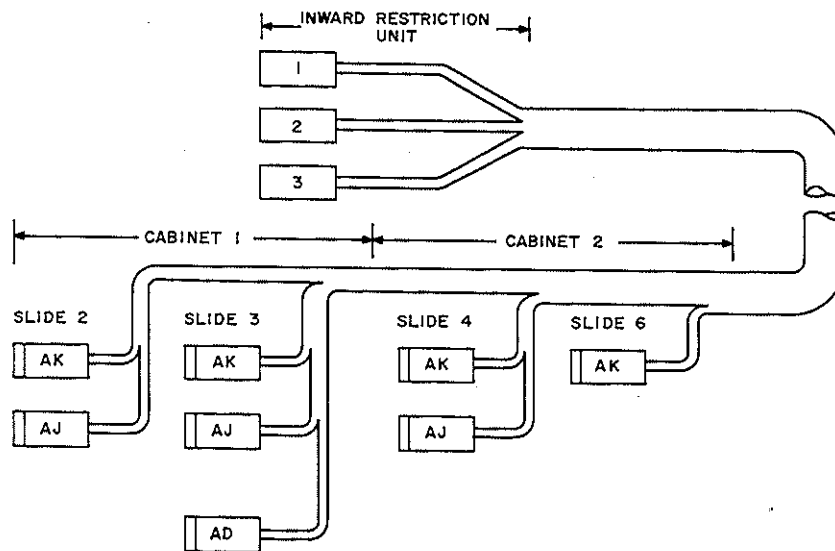
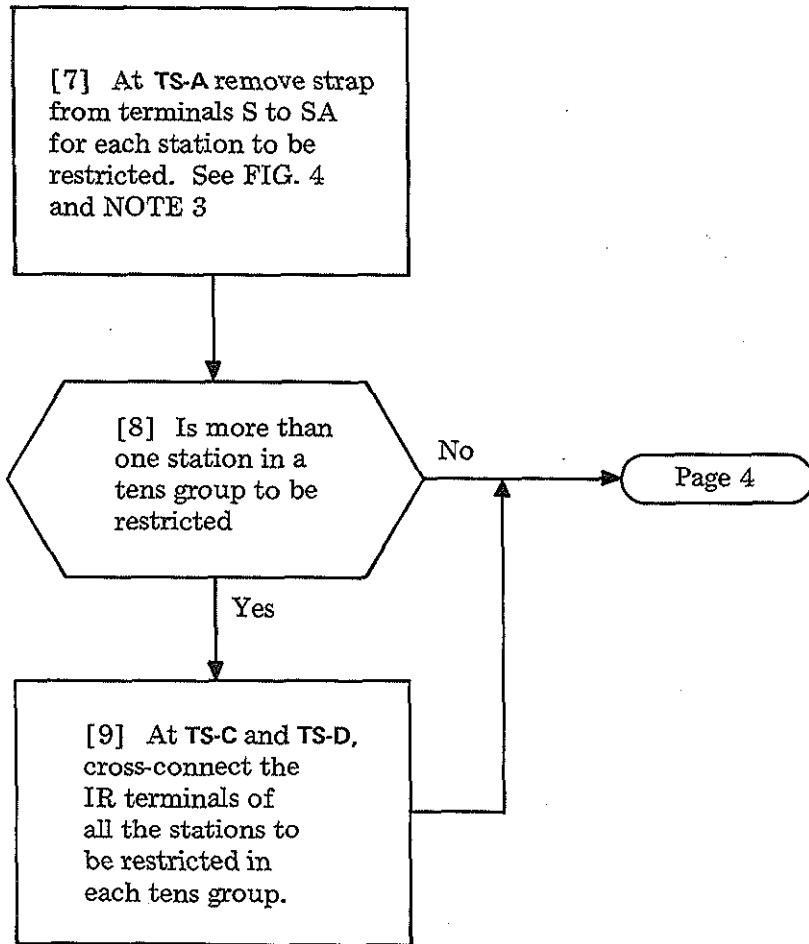


FIG. 3—J58829AL, List 2 Cable

INSTALL AND TEST STATION INWARD RESTRICTION EQUIPMENT (SD-5E003)

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NOTE 3
 STA 30 is used as an example for an IR station. Each station to be restricted must have the same strap removed.

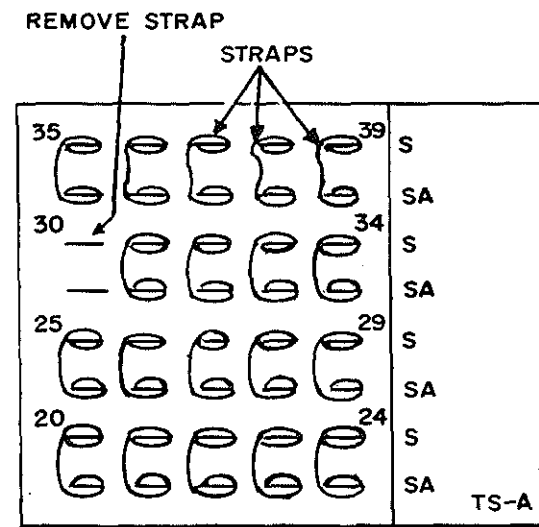
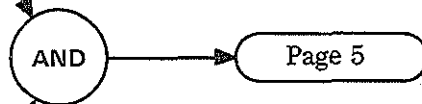


FIG. 4—Example, STA 30

[10] At TS-C and TS-D, strap terminal of each station to be restricted to a spare IR terminal. See FIG. 5 and NOTE 4

[11] Strap TS-A station terminals S and SA for each station to be restricted to TS-B terminals S and SA. See FIG. 6 and NOTE 5



NOTES

4. TS-D contains terminals for STA 50-59 and IR (F-J) leads
5. IR (A-J) lead used on TS-B must be same IR (A-J) lead used on TS-C or TS-D for each station restricted

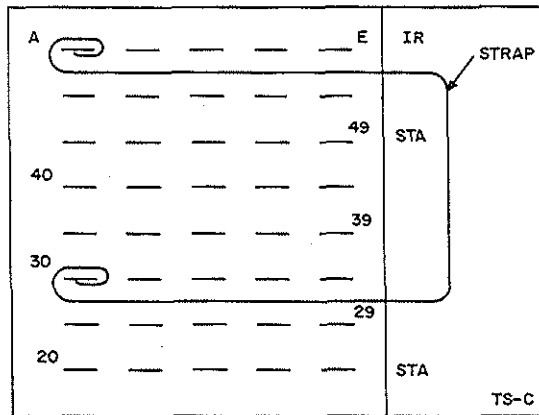


FIG. 5—Example, STA 30

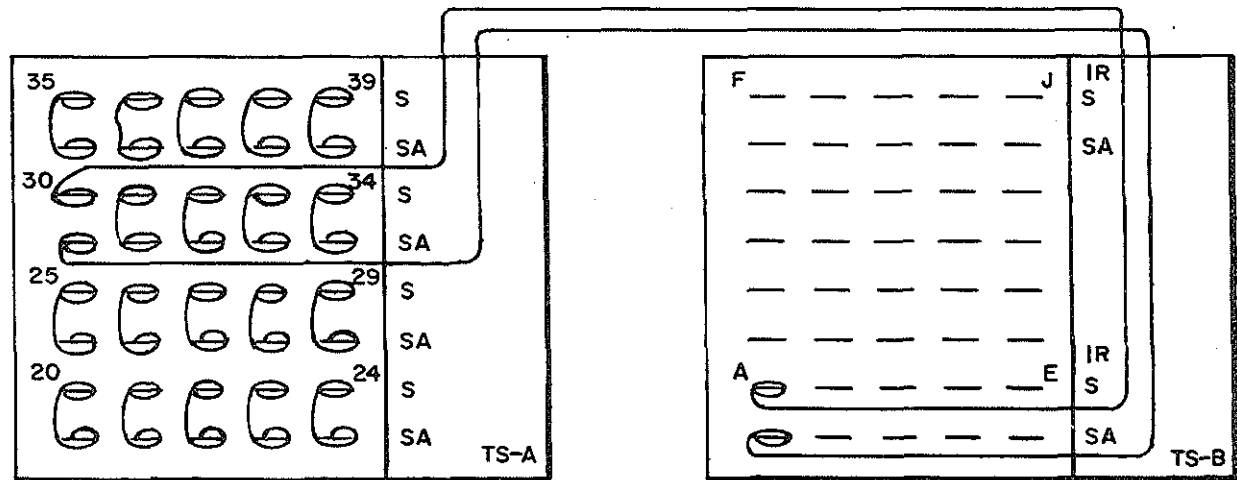


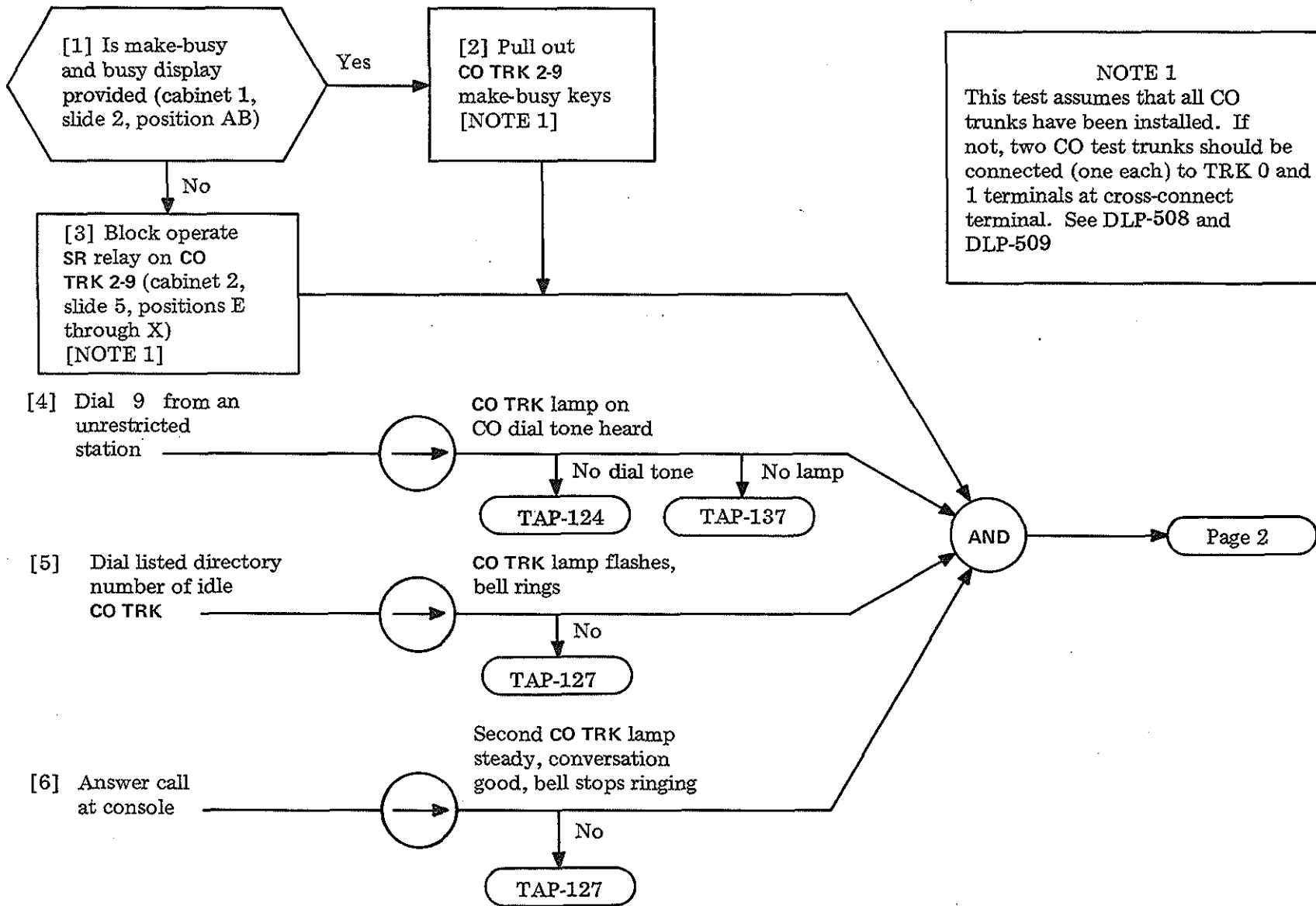
FIG. 6—Example, STA 30

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[12] Test station
inward restriction
equipment circuit
per DLP-556.
[NOTE 6]

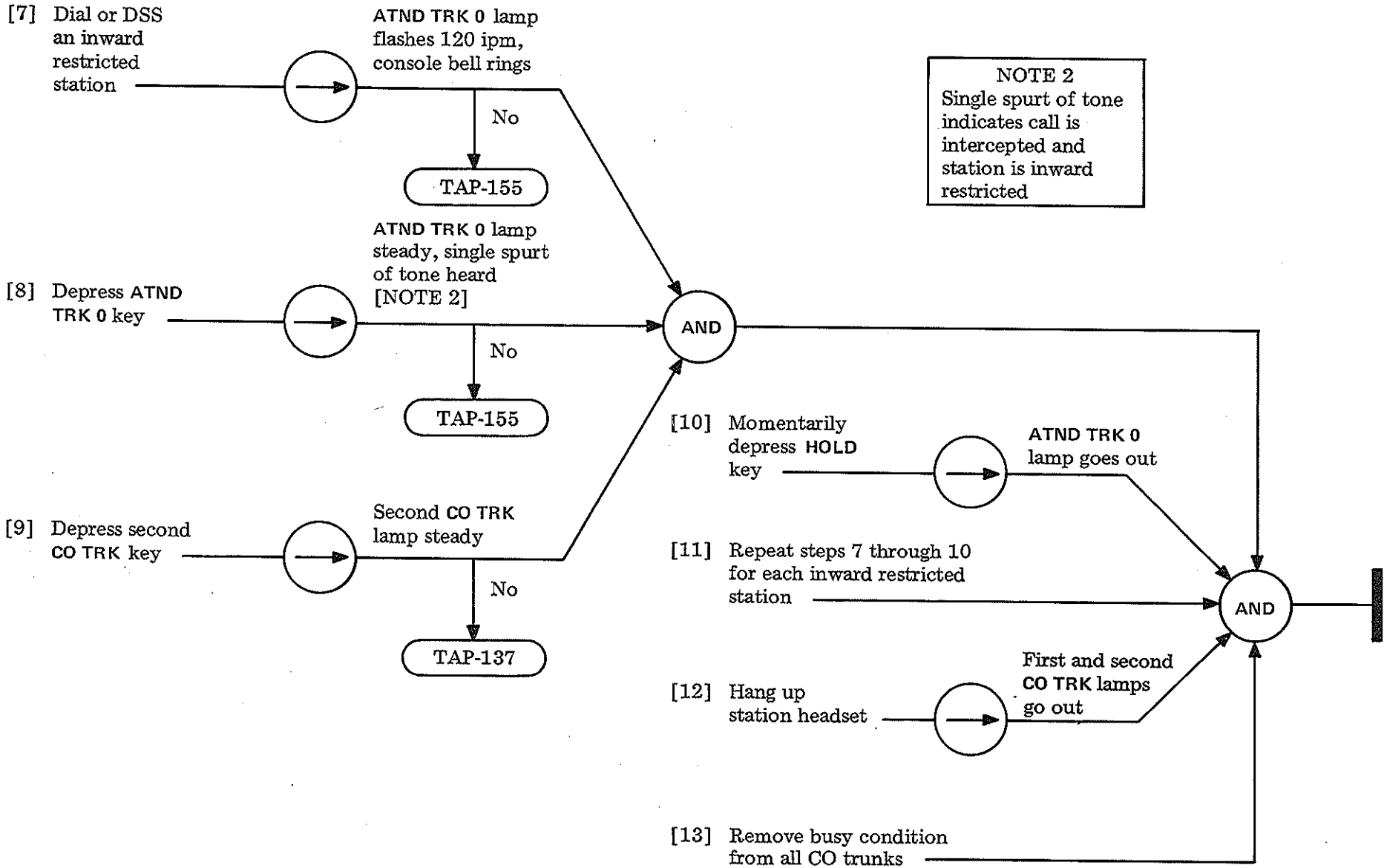


NOTE 6
On a system installation,
testing may be delayed until
all options and features
are installed



TEST STATION INWARD RESTRICTION FEATURE

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NOTE 2
 Single spurt of tone indicates call is intercepted and station is inward restricted

TEST STATION INWARD RESTRICTION FEATURE

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[1] Mount external equipment cabinet ED-91180-70 or equivalent

[NOTE 1]

NOTE 1
External cabinet must be mounted within 20 feet because cable from PBX crown to external cabinet is only 30 feet long

[2] Mount station message register (SMR) pulse units J58829AP, L1 or L2 per FIG. 1

AND

[3] Is surcharge registration to be provided

No

[4] Mount SMR auxiliary unit for pulse circuits J58829AP, L5 per FIG. 1 and TABLE A

Page 5

Yes

Page 2

TABLE A

EQUIPMENT		QUANTITY
DESCRIPTION	CODE	
Station message register pulse unit equipped with three pulse circuits	J58829AP, List 1, 2, or 3	One List 1, List 2, or List 3 for each three central office trunks
Station message register surcharge unit equipped with two surcharge circuits	J58829AP, List 4	One for each two central office trunks if surcharge registration is required
Station message register auxiliary unit equipped with common pulse circuits	J58829AP, List 5	One for the PBX if surcharge registration is not required
Station message register auxiliary unit equipped with common pulse and surcharge circuits	J58829AP, List 6	One for the PBX if surcharge registration is required
Two connector cables	J58829AP, List 7	One List 7 for the PBX
Message register cabinets	J58835C, L1 & 3	One of each
A25C connector cable, length as required	—	One

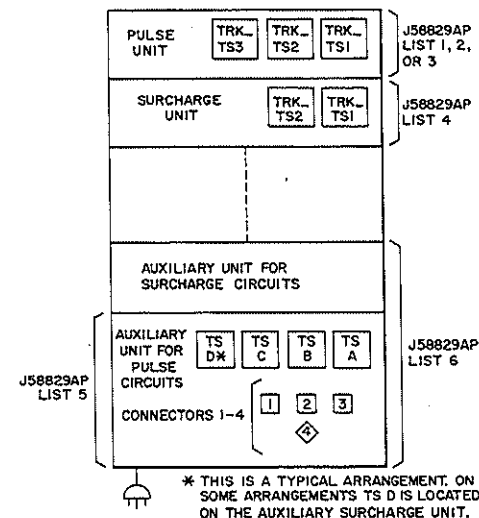


FIG. 1

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[5] Mount SMR surcharge units
J58829AP, L4 per FIG. 1
and TABLE A

[6] Mount SMR auxiliary unit
for pulse and surcharge
circuits J58829AP, L6 per FIG. 1
and TABLE A

[7] Remove straps from auxiliary
unit TS-C and TS-D and pulse
unit TRK-TS for each trunk on
which surcharge is required
per TABLE B

[8] Strap all surcharge unit
TRK-TS pchgs 13 together
and all TRK-TS terminals
23 together

[9] Place straps from TRK-TS
to surcharge unit TRK-TS
per TABLE C

AND

Surcharge unit
installed

[10] Place 25-pair inside
wiring cable from surcharge
units to auxiliary unit
[FIG. 1] and strap surcharge
TRK-TS to auxiliary TS-C
and TS-D per TABLE D

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TABLE B			
SURCHARGE REGISTRATION REQUIRED ON	TRK	REMOVE STRAPS	
		AUXILIARY UNIT	ASSOC PULSE UNIT TS
	0	14 of TS(C) to 13 of TS(D) 15 to 17 on TS(D)	26 to 28 18 to 47
	1	24 of TS(C) to 23 of TS(D) 25 to 27 on TS(D)	26 to 28 18 to 47
	2	34 of TS(C) to 33 of TS(D) 35 to 37 on TS(D)	26 to 28 18 to 47
	3	44 of TS(C) to 43 of TS(D) 45 to 47 on TS(D)	26 to 28 18 to 47
	4	54 to TS(C) to 53 of TS(D) 55 to 57 on TS(D)	26 to 28 18 to 47
	5	15 of TS(C) to 14 of TS(D) 16 to 18 on TS(D)	26 to 28 18 to 47
	6	25 of TS(C) to 24 of TS(D) 26 to 28 on TS(D)	26 to 28 18 to 47
	7	35 of TS(C) to 34 of TS(D) 36 to 38 on TS(D)	26 to 28 18 to 47
	8	45 of TS(C) to 44 of TS(D) 46 to 48 on TS(D)	26 to 28 18 to 47
9	55 of TS(C) to 54 of TS(D) 56 to 58 on TS(D)	26 to 28 18 to 47	

TABLE C		
PULSE UNIT TRK TS		SURCHARGE UNIT TRK TS
DESIG	TERM	TERM
-48V A-	11	11
SR-	17	17
M-	18	18
S1-	27	27
AG-	28	28
GRD A-	31	42
AE-	36	36
AC	*37	37
AF-	38	38
SS2	46	46
AB-	47	47
AA-	48	48
+48V MR-	51	31

* Connection required for J58829AP, List 3 only

INSTALL AND TEST STATION MESSAGE REGISTER (SMR) PULSE AND SURCHARGE EQUIPMENT (SD-5E021)

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TABLE D													
CONNECT			FROM		TO		CONNECT			FROM		TO	
25-PAIR CABLE			SURCHARGE UNIT		AUXILIARY UNIT		25-PAIR CABLE			SURCHARGE UNIT		AUXILIARY UNIT	
BDR AND PAIR	COLOR	LEAD	TRK TS	TERM	TS-C	TS-D	BDR AND PAIR	COLOR	LEAD	TRK TS	TERM	TS-C	TS-D
1T	W-BL	RM1	0*	13	18		16T	Y-BL	IMP	7	14	32	
1R	BL-W	ST	↑*	23	28		16R	BL-Y	H	↑	24	34	
	W-O	IMP	↓	14		11		Y-O	R2	↓	34	36	
	O-W	H		24		13		O-Y	R1	7	44	38	
	W-G	R2	↓	34		15		Y-G	IMP	8	14	42	
	G-W	R1	0	44		17		G-Y	H	↑	24	44	
	W-BR	IMP	1	14		21		Y-BR	R2	↓	34	46	
	BR-W	H	↑	24		23		BR-Y	R1	8	44	48	
5T	W-S	R2	↓	34		25	20T	Y-S	IMP	9	14	52	
5R	S-W	R1	1	44		27	20R	S-Y	H	↑	24	54	
	R-BL	IMP	2	14		31		V-BL	R2	↓	34	56	
	BL-R	H	↑	24		33		BL-V	R1	9	44	58	
	R-O	R2	↓	34		35		V-O	Spare				
	O-R	R1	2	44		37		O-V					
	R-G	IMP	3	14		41		V-G					
	G-R	H	↑	24		43		G-V					
	R-BR	R2	↓	34		45		V-BR					
	BR-R	R1	3	44		47		BR-V					
10T	R-S	IMP	4	14		51	25T	V-S					
10R	S-R	H	↑	24		53	25R	S-V					
	BK-BL	R2	↓	34		55							
	BL-BK	R1	4	44		57							
	BK-O	IMP	5	14		12							
	O-BK	H	↑	24		14							
	BK-G	R2	↓	34		16							
	G-BK	R1	5	44		18							
	BK-BR	IMP	6	14		22							
	BR-BK	H	↑	24		24							
15T	BK-O	R2	↓	34		26							
15R	O-BK	R1	6	44		28							

*Trk 0 or to first trk with surcharge

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[11] Place double-ended crown cable J58829AP, L7 [FIG. 2] from PBX crown to external auxiliary cabinet

[12] Remove any shorting plugs from crown connectors BH, BG, BF (slide 5), and AU (slide 6) matching those shown in FIG. 2

[13] Place stub-ended crown cable J58829AP, L7 [FIG. 2] from crown to SMR cross-connecting terminal

[14] Mate cable plugs [FIG. 2] to PBX crown connectors

[15] Mate connectors 1, 2, and 3 on auxiliary unit for pulse circuits

[16] Strap all TRK-TS terminals 57 together on pulse units for each trunk requiring message registration [FIG. 1]

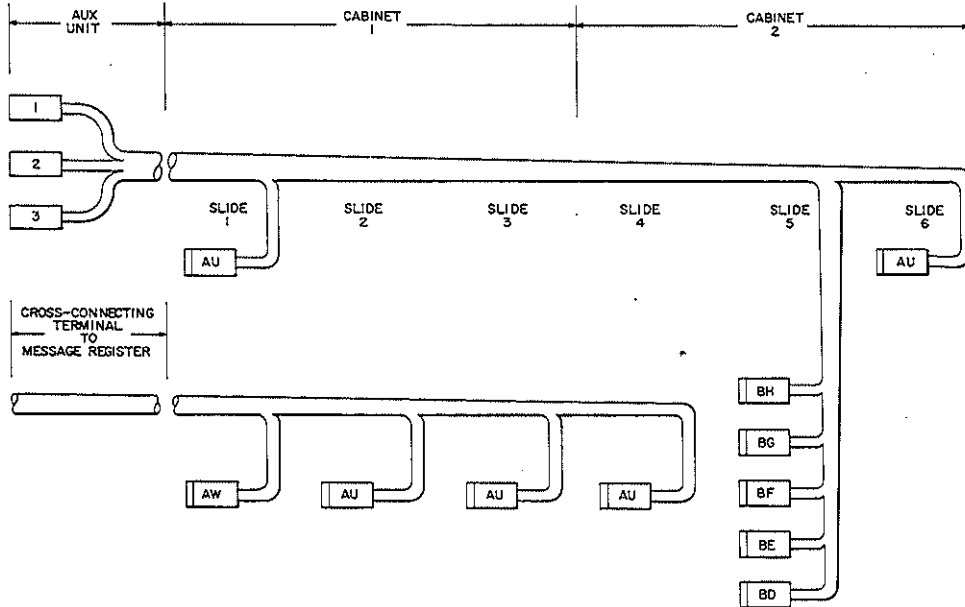


FIG. 2 - Crown Cable J58829AP, L7



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[17] Remove straps from auxiliary unit
[FIG. 1] TS-A and TS-B as required
per TABLE E

[18] Place 50-pair cable between pulse
and auxiliary units in external
cabinet

[19] Connect 50-pair cable to pulse
and auxiliary unit terminal
strips per TABLE F

[20] Place A25C connector cable from
auxiliary unit (external cabinet)
to cross-connect terminal

TABLE E			
	TRK	TS	REMOVE STRAPS
MESSAGE	0	TS-A	15 — 16
	1	TS-A	25 — 26
	2	TS-A	35 — 36
REGISTRATION	3	TS-A	45 — 46
	4	TS-A	55 — 56
REQUIRED ON	5	TS-B	15 — 16
	6	TS-B	25 — 26
	7	TS-B	35 — 36
	8	TS-B	45 — 46
	9	TS-B	55 — 56

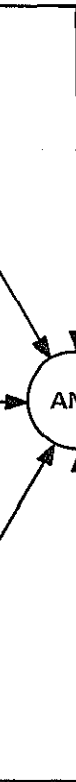


[21] Mate the A25C connector
cable to connector 4 of
auxiliary unit

[22] Place message register
cabinets J58835C, L1
(trunk) and L3 (station)
at operating location

[23] Connect stub-end of crown
cable J58829AP, L7 at
cross-connect terminal per
TABLE G

[24] Place 50-pair inside wiring
cable from station message
register cabinet to cross-
connect terminal



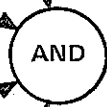
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[25] Connect one end of 50-pair inside wiring cable to message register (MR) cabinet STA TS (M leads) per TABLE G

[26] Connect second end of 50-pair inside wiring cable to cross-connect terminal per TABLE G

[27] Connect stub-end of A25C cable at cross-connect terminal per TABLE H

[28] Place 6-pair inside wiring cable from cross-connect terminal to trunk register cabinet



[29] Connect 6-pair cable at trunk register cabinet STA TS (M or D leads) and cross-connect terminals per TABLE H

[30] Cross-wire A25C cable M leads to CO TRK M leads per TABLE I

[31] Strap out L diode for each register being used for trunk registration per FIG. 3

[32] Mark and reset station and trunk registers



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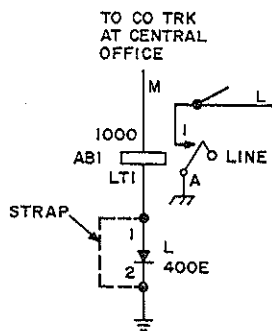


FIG. 3

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TABLE F

CONNECT			FROM		TO			CONNECT			FROM		TO		
50-PAIR CABLE			PULSE UNIT		AUXILIARY UNIT			50-PAIR CABLE			PULSE UNIT		AUXILIARY UNIT		
BDR AND PAIR	COLOR	LEAD	TRK TS	TERM	TS-A	TS-B	TS-C	BDR AND PAIR	COLOR	LEAD	TRK TS	TERM	TS-A	TS-B	TS-C
1T 1R	W-BL BL-W W-O O-W W-G G-W W-BR BR-W	-48V A SR M or D S1 GRD A SS2 +48V MR SS1	0 ↑ ↓ 0 †	11 17 18 27 31 46 51 56 58 57			11 13 17 14 14 15 11 16 18 58	16T 16R	Y-BL BL-Y Y-O O-Y Y-G G-Y Y-BR BR-Y Y-S S-Y	-48V A SR M or D S1 GRD A SS2 +48V MR SS1 M *	3 ↑ ↓ 3	11 17 18 27 31 46 51 56 58			41 43 47 44 44 45 41 46 48
5T 5R	W-S S-W	M COD						20T 20R							
	R-BL BL-R R-O O-R R-G G-R R-BR BR-R	-48V A SR M or D S1 GRD A SS2 +48V MR SS1	1 ↑ ↓ 1	11 17 18 27 31 46 51 56 58			21 23 27 24 24 25 21 26 28	BL-W 25T 25R	V-BL BL-V V-O O-V V-G G-V V-BR BR-V V-S S-V	-48V A SR M or D S1 GRD A SS2 +48V MR SS1 M *	4 ↑ ↓ 4	11 17 18 27 31 46 51 56 58			51 53 57 54 54 55 51 56 58
10T 10R	R-S S-R	M *													
	BK-BL BL-BK BK-O O-BK BK-G G-BK BK-BR BR-BK	-48V A SR M or D S1 GRD A SS2 +48V MR SS1	2 ↑ ↓ 2	11 17 18 27 31 46 51 56 58			31 33 37 34 34 35 31 36 38	26T 26R O-W 30T 30R	W-BL BL-W W-O O-W W-G G-W W-BR BR-W W-S S-W	-48V A SR M or D S1 GRD A SS2 +48V MR SS1 M *	5 ↑ ↓ 5	11 17 18 27 31 46 51 56 58			12 13 17 14 15 11 16 18
15T 15R	BK-S S-BK	M *													

* These leads spare

† COD lead will connect at TRK TS-0 or first TRK TS used for message register

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TABLE F (cont)

CONNECT			FROM		TO			CONNECT			FROM		TO		
50-PAIR CABLE			PULSE UNIT		AUXILIARY UNIT			50-PAIR CABLE			PULSE UNIT		AUXILIARY UNIT		
BDR AND PAIR	COLOR	LEAD	TRK TS	TERM	TS-A	TS-B	TS-C	BDR AND PAIR	COLOR	LEAD	TRK TS	TERM	TS-A	TS-B	TS-C
31T 31R	R-BL BL-R	-48V A SR	6 ↑	11 17			22	46T 46R	V-BL BL-V	-48V A SR	9 ↑	11 17			52
	R-O O-R	M or D S1		18 27		27 24			V-O O-V	M or D S1		18 27		53 54	
	R-G G-R	GRD A SS2		31 46			25	O-W	V-G G-V	GRD A SS2		31 46			55
	R-BR BR-R	+48V MR SS1		51 56		21 26			V-BR BR-V	+48V MR SS1		51 56		51 56	
35T 35R	R-S S-R	M *	6 ↓	58		28		50T 50R	V-S S-V	M *	9 ↓	58		58	
	BK-BL BL-BK	-48V A SR	7 ↑	11 17			32	*These leads spare							
	BK-O O-BK	M or D S1		18 27		37 34									
	BK-G G-BK	GRD A SS2		31 46			35								
	BK-BR BR-BK	+48V MR SS1		51 56		31 36									
40T 40R	BK-S S-BK	M *	7 ↓	58		38									
	Y-BL BL-Y	-48V A SR	8 ↑	11 17			42								
	Y-O O-Y	M or D S1		18 27		47 44									
	Y-G G-Y	GRD A SS2		31 46			45								
	Y-BR BR-Y	+48V MR SS1		51 56		41 46									
45T 45R	Y-S S-Y	M *	8 ↓	58		48									

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TABLE G

CONNECT			TO	FROM	CONNECT			CONNECT			TO	FROM	CONNECT		
J58829AP, L7 CA			CROSS-CONNECT	MR CAB	50-PAIR CABLE			J58829AP, L7 CA			CROSS-CONNECT	MR CAB	50-PAIR CABLE		
BDR AND PAIR	COLOR	LEAD	TERMINAL	STA TS	LEAD	COLOR	BDR AND PAIR	BDR AND PAIR	COLOR	LEAD	TERMINAL	STA TS	LEAD	COLOR	BDR AND PAIR
			SP TERM	TERM							SP TERM	TERM			
1T	W-BL	M21	1	0	M21	W-BL	1T	17T	Y-O	M53	33	32	M53	Y-O	17T
1R	BL-W	M20	2	1	20	BL-W	1R	17R	O-Y	M52	34	33	52	O-Y	17R
	W-O	M23	3	2	23	W-O			Y-G	55	35	34	55	Y-G	
	O-W	M22	4	3	22	O-W			G-Y	54	36	35	54	G-Y	
	W-G	M25	5	4	25	W-G			Y-BR	57	37	36	57	Y-BR	
	G-W	M24	6	5	24	G-W			BR-Y	56	38	37	56	BR-Y	
	W-BR	M27	7	6	27	W-BR		20T	Y-S	59	39	38	59	Y-S	20T
	BR-W	M26	8	7	26	BR-W		20R	S-Y	58	40	39	58	S-Y	20R
5T	W-S	M29	9	8	29	W-S	5T		V-BL	61	41	40	61	V-BL	
5R	S-W	M28	10	9	28	S-W	5R		BL-V	60	42	41	60	BL-V	
	R-BL	M31	11	10	31	R-BL			V-O	63	43	42	63	V-O	
	BL-R	M30	12	11	30	BL-R			O-V	62	44	43	62	O-V	
	R-O	M33	13	12	33	R-O		BL-W	V-G	65	45	44	65	V-G	
	O-R	M32	14	13	32	O-R			G-V	64	46	45	64	G-V	
	R-G	M35	15	14	35	R-G			V-BR	67	47	46	67	V-BR	
	G-R	M34	16	15	34	G-R			BR-V	66	48	47	66	BR-V	
	R-BR	M37	17	16	37	R-BR		25T	V-S	69	49	48	69	V-S	25T
	BR-R	M36	18	17	36	BR-R		25R	S-V	M68	50	49	68	S-V	25R
10T	R-S	M39	19	18	39	R-S	10T	26T	W-BL	M71	51	50	71	W-BL	26T
10R	S-R	M38	20	19	38	S-R	10R	26R	BL-W	70	52	51	70	BL-W	26R
	BK-BL	M41	21	20	41	BK-BL			W-O	73	53	52	73	W-O	
	BL-BK	M40	22	21	40	BL-BK			O-W	72	54	53	72	O-W	
	BK-O	M43	23	22	43	BK-O			W-G	75	55	54	75	W-G	
	O-BK	M42	24	23	42	O-BK			G-W	74	56	55	74	G-W	
	BK-G	M45	25	24	45	BK-G			W-BR	77	57	56	77	W-BR	
	G-BK	M44	26	25	44	G-BK			BR-W	76	58	57	76	BR-W	
	BK-BR	M47	27	26	47	BK-BR		30T	W-S	79	59	58	79	W-S	30T
	BR-BK	M46	28	27	46	BR-BK		30R*	S-W	M78	60	59	M78	S-W	30R
15T	BK-S	M49	29	28	49	BK-S	15T						MISC TS 0†	GRD-0	R-BL
15R	S-BK	M48	30	29	48	S-BK	15R						1†	GRD-20	BL-R
16T	Y-BL	M51	31	30	51	Y-BL	16T						2†	GRD-40	R-O
16R	BL-Y	M50	32	31	M50	BL-Y	16R							O-R	32R

*Pairs 31 to 40 spare

†Connect to AP1-8 GRD leads at cross-connect terminal

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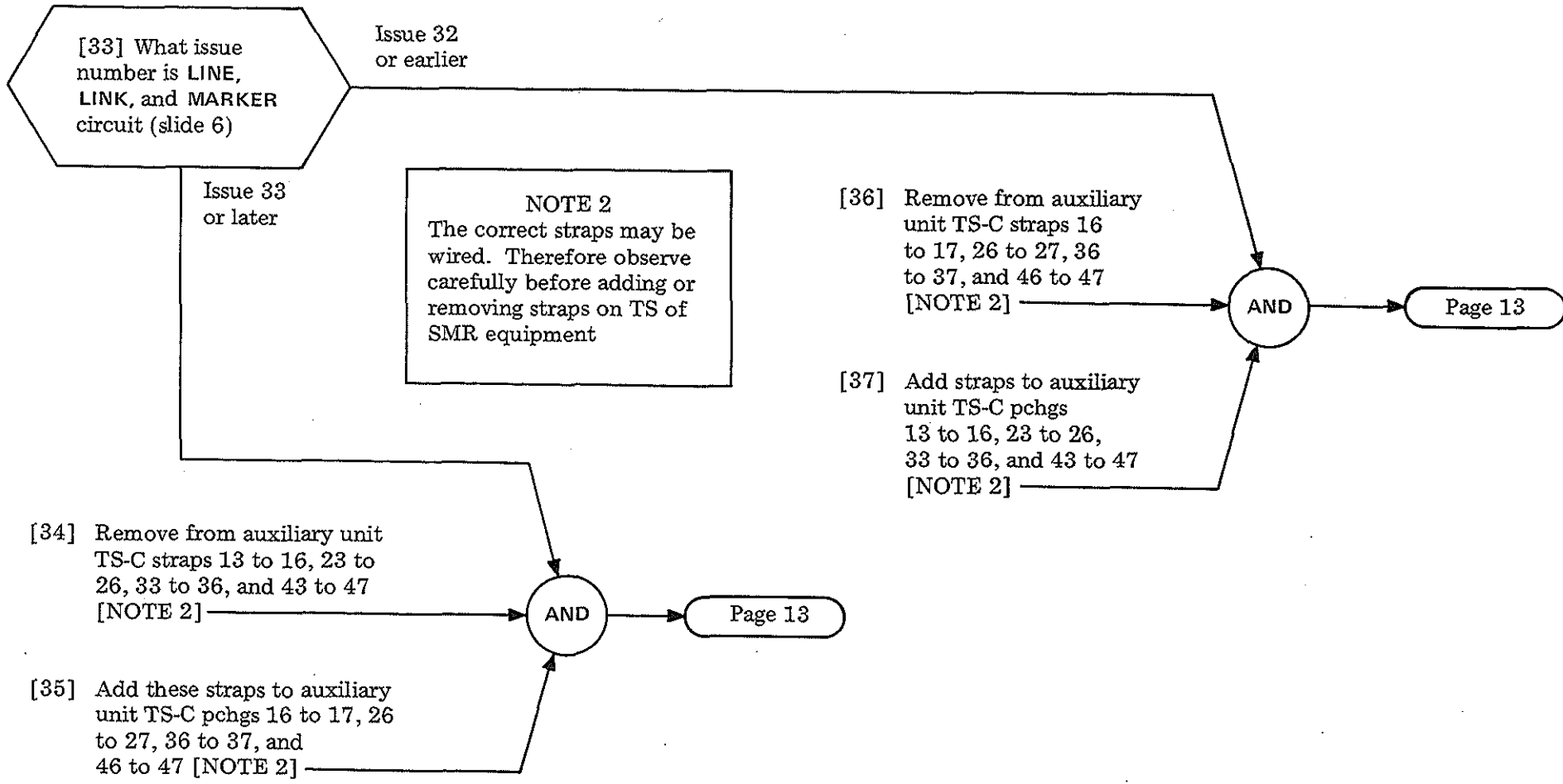
TABLE H						
CONNECT THE A25C CABLE			CONNECT THE 6-PAIR CABLE			
FROM			TO	FROM		
CONNECTOR 4 AUXILIARY UNIT			CROSS-CONNECT SP TERM BLOCK	TRUNK MESSAGE REGISTER		
PAIR	COLOR	LEAD	TERM	COLOR	PAIR	TRUNK
16T	Y-BL	M or D	T1	W-BL	1T	TRK-1
16R	BL-Y	↑	R1	BL-W	1R	0
	Y-O	↑	T2	W-O		3
	O-Y	↑	R2	O-W		2
	Y-G	↑	T3	W-G		5
	G-Y	↑	R3	G-W		4
	Y-BR	↑	T4	W-BR		7
	BR-Y	↑	R4	BR-W		6
20T	Y-S	↓	T5	W-S	5T	9
20R	S-Y	M or D	R5	S-W	5R	TRK-8
			AP1-8 GRD	R-BL	6T	GRD
				BL-R	6R	GRD

TABLE I						
CONNECT			FROM	TO		
A25C CABLE			CROSS-CONNECT SP TERM BLOCK	CROSS-WIRE TO M-LEAD ASSOCIATED WITH CO TRK*		
PAIR	COLOR	LEAD	TERM			
21T	V-BL	M	T6	TRK-1		
21R	BL-V	↑	R6	0		
	V-O	↑	T7	3		
	O-V	↑	R7	2		
	V-G	↑	T8	5		
	G-V	↑	R8	4		
	V-BR	↑	T9	7		
	BR-V	↑	R9	6		
25T	V-S	↓	T10	9		
25R	S-V	M	R10	TRK-8		

* From central office

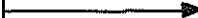
INSTALL AND TEST STATION MESSAGE REGISTER (SMR) PULSE AND SURCHARGE EQUIPMENT (SD-5E021)

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[38] Plug in apparatus cabinet to 117 ac circuit

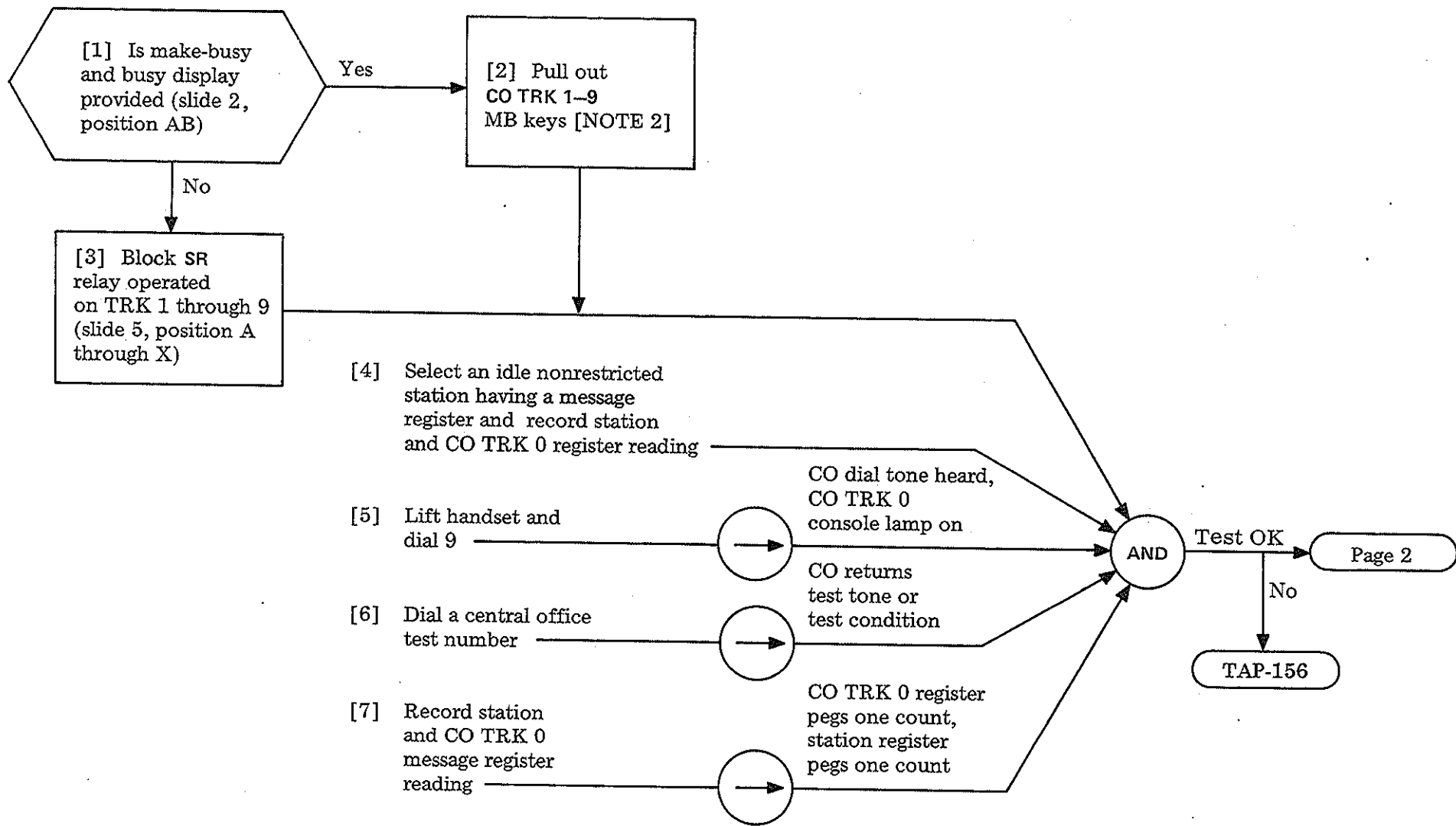


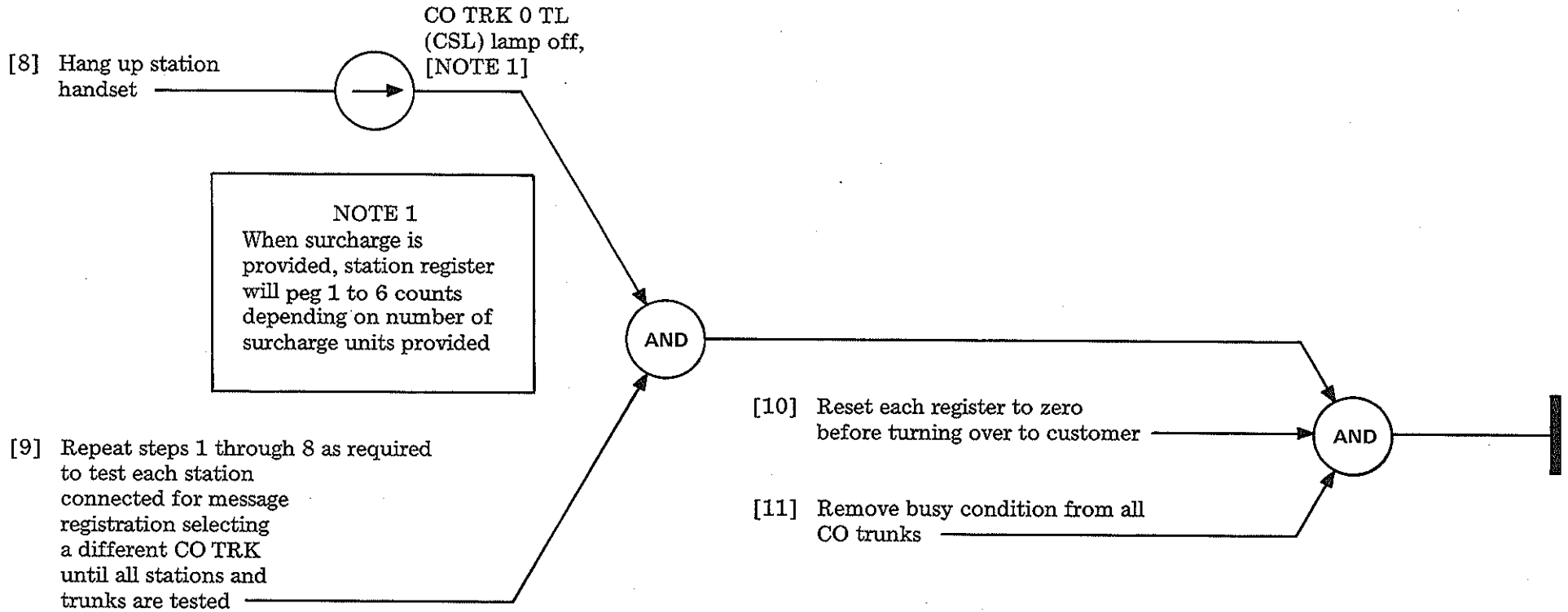
[39] Test SMR and surcharge equipment circuit per DLP-558 [NOTE 3]



NOTE 3
On a system installation, testing may be delayed until all options and features are installed.

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TEST STATION MESSAGE REGISTER FEATURE

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- [1] Unpack and mount C-type (receiver) TOUCH-TONE equipment J58844A, List 1 in slide 1, positions U and V [NOTE 1]
- [2] Mate local cable connectors J1-0 to N connector of receiver 0 (position U) and J1-1 to N connector of receiver 1 (position V) [FIG. 1]
- [3] Lay out the TOUCH-TONE crown cable J58829A, L37 [FIG. 2]
- [4] Mate cable connectors with crown connectors at slides 1 and 6
- [5] Mark REC 0 on receiver located at position 1U and mark REC 1 on receiver located at position 1V

AND

[6] Test TOUCH TONE[®] calling equipment per DLP-561. [NOTE 2]

NOTE 1
Cabinets 1 and 2 are compatible with C-type receivers when cabinets bear J58829A, List 32 or above

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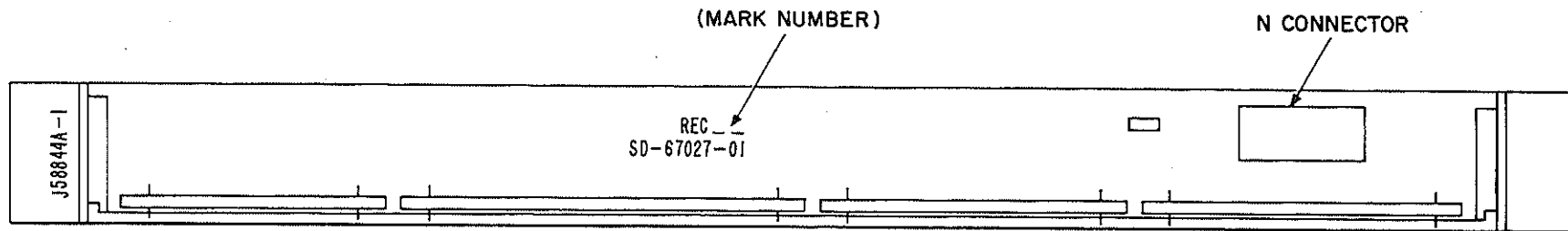


FIG. 1—C-Type Receiver (J58844A, L1) Unit

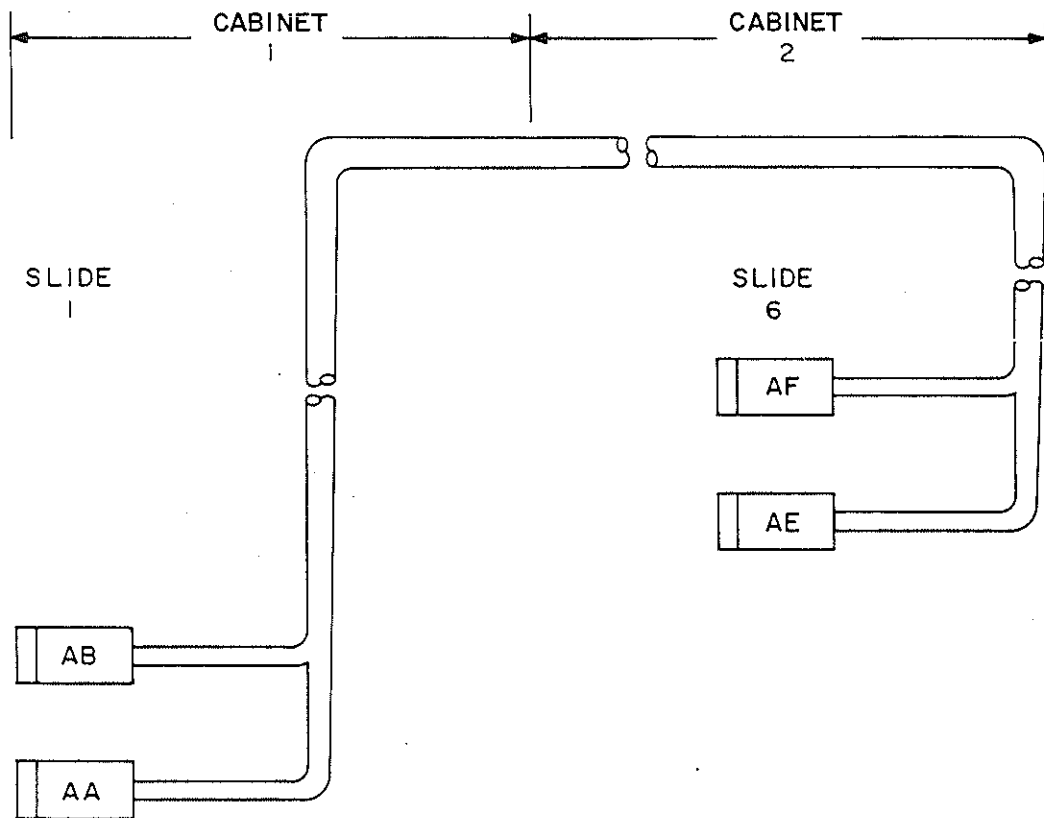


FIG. 2

NOTE 2
 On a system installation,
 testing may be delayed
 until all options and
 features are installed

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[1] Unpack A-type (receiver) TOUCH-TONE equipment provided per TABLE A

[2] Install locally furnished apparatus cabinet external to the PBX

[3] Stamp each receiver unit per FIG. 1 and FIG. 2

[4] Install the two receivers [FIG. 1] (J99289B) in one receiver mounting shelf (J99289A) [Fig. 2]

[5] Install mounting shelf in apparatus cabinet [FIG. 2]

[6] Install one translation unit J58829AC in apparatus cabinet [FIG. 3]

AND

[7] Mate the J58829AC feeder cable plugs to crown connectors in cabinet 2, slide 6, per FIG. 4

[8] Extend and terminate the feeder cable J58829AC to the terminal strips at the translation unit per FIG. 3 and TABLE B

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TABLE A

EQUIPMENT	REQUIREMENTS	
	J-SPEC	QUAN
Receiver unit	J99289B, List 1	2
Receiver mounting shelf	J99289A, List 1	1
Translation unit	J58829AC, List 1	1
25-Pair supplementary house and feeder cable	J58829AC, List 2	1
Cabinet	Locally furnished	1
253CL cable	Locally furnished	As reqd

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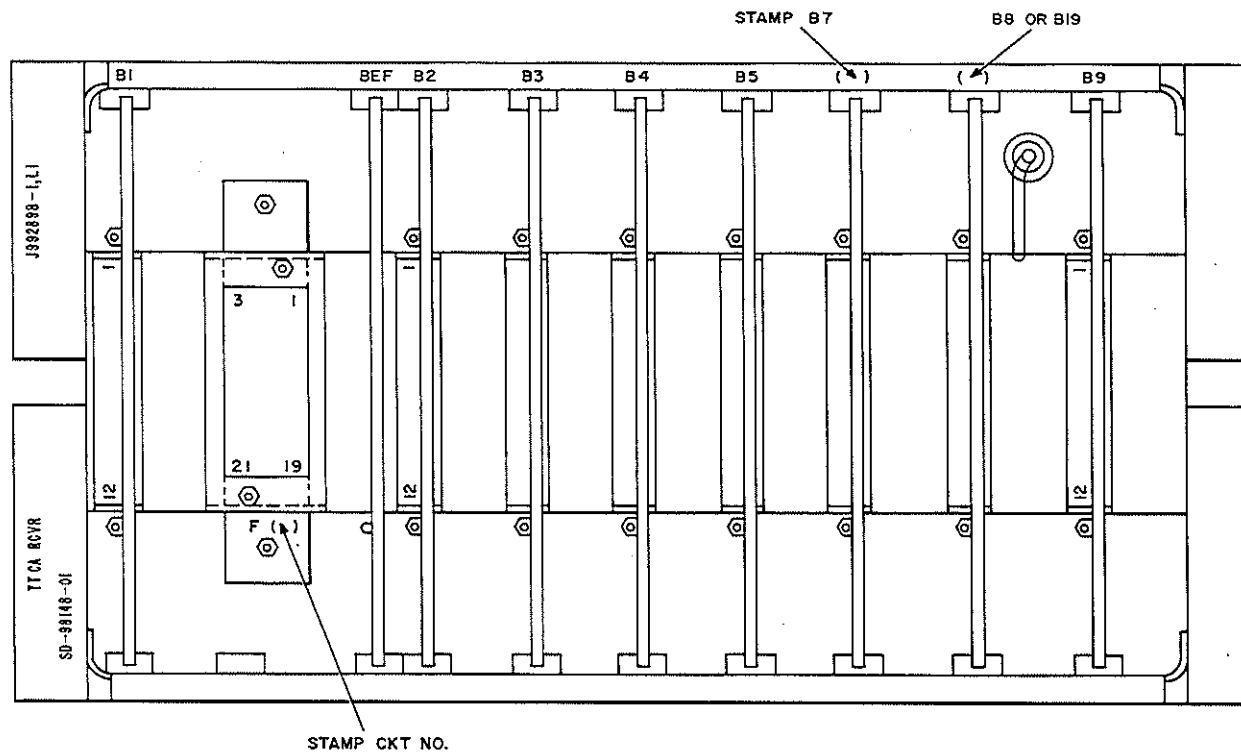


FIG. 1--A-Type TOUCH-TONE Calling Receiver Unit J99289B, List 1 (SD-98148)

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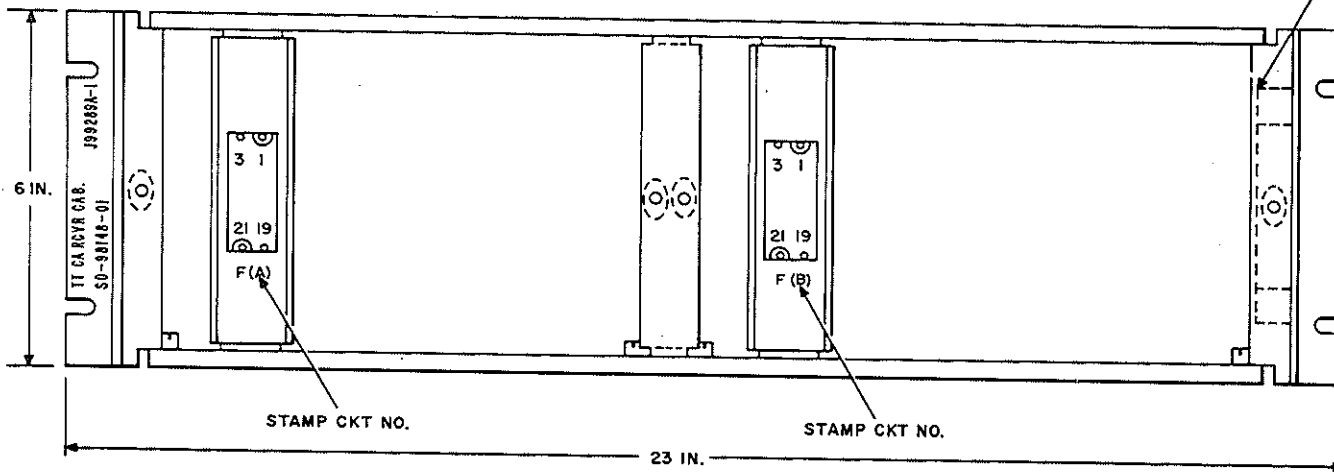
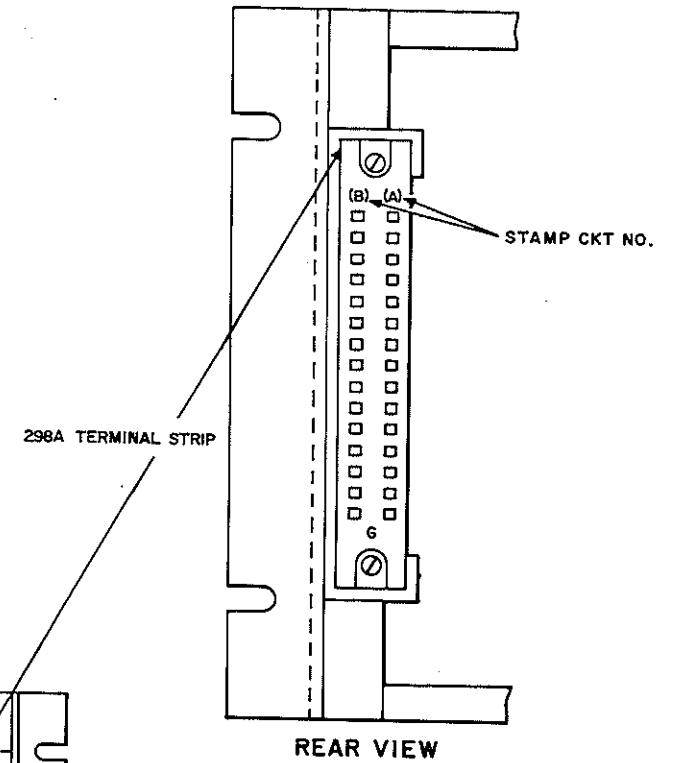
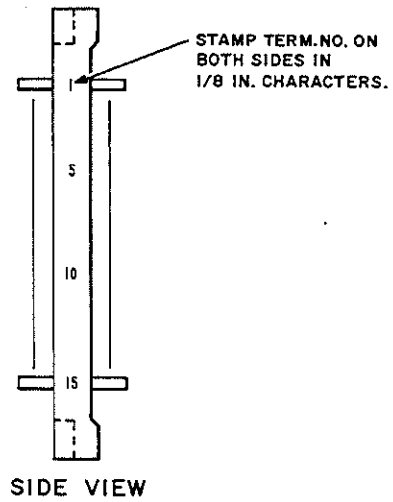


FIG. 2 - TOUCH-TONE Calling Receiver Unit Mounting Shelf (J99289A, List 1)—Front View

INSTALL AND TEST A-TYPE "TOUCH-TONE®" CALLING EQUIPMENT (SD-98148)

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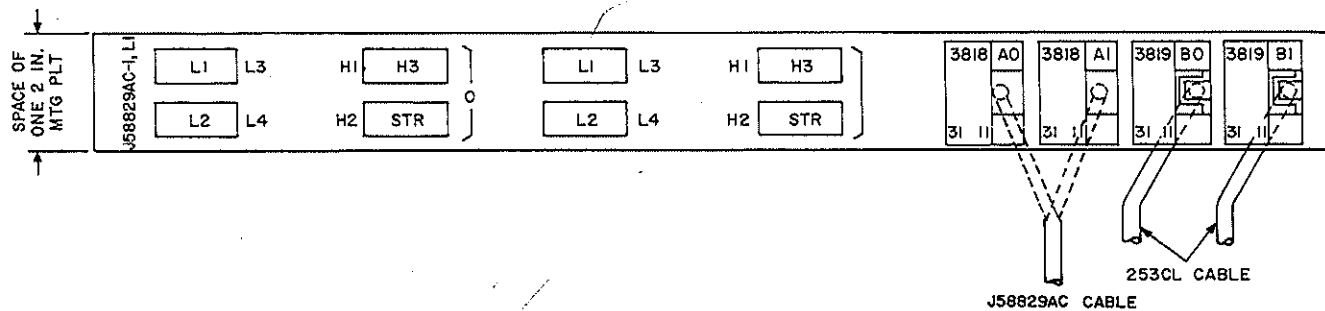


FIG. 3—Translation Unit J58829AC, List 1

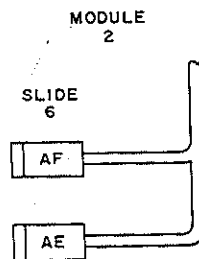


FIG. 4—Plan View Showing Location of J58829AC, List 2 (A&M) Supplementary House and Feeder Cable Plugs

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TABLE B							
25-PAIR SUPPLEMENTARY CABLE— REGISTERS 0 AND 1 TO TRANSLATION UNIT J58829AC CABLE							
CONNECT 25-PAIR CABLE LEADS*			TO TRANSLATION UNIT	CONNECT 25-PAIR CABLE LEADS†			TO TRANSLATION UNIT
PAIR	COLOR	LEAD	TERMINAL STRIP A1	PAIR	COLOR	LEAD	TERMINAL STRIP A0
1T	W-BL	KP1	38	11T	BK-BL	KP1	38
1R	BL-W	KP2	28	11R	BL-BK	KP2	28
2T	W-O	KP3	18	12T	BK-O	KP3	18
2R	O-W	KP4	37	12R	O-BK	KP4	37
3T	W-G	KP5	27	13T	BK-G	KP5	27
3R	G-W	KP6	17	13R	G-BK	KP6	17
4T	W-BR	KP7	36	14T	BK-BR	KP7	36
4R	BR-W	KP8	26	14R	BR-BK	KP8	26
5T	W-S	KP9	16	15T	BK-S	KP9	16
5R	S-W	KP0	35	15R	S-BK	KP0	35
6T	R-BL	KRA1	25	16T	Y-BL	KRA0	25
6R	BL-R	RC(-48)	11	16R	BL-Y	RC(-48)	11
7T	R-O	RC(GRD)	31	17T	Y-O	RC(GRD)	31
7R	O-R	T	15	17R	O-Y	T	15
8T	R-G	R	34	18T	Y-G	R	34
8R	G-R	GN	24	18R	G-Y	GN	24
Spare				Spare			
10R				25R			

* Pairs 1 through 8 are connected via PBX crown connectors to register 1 on slide 6.

† Pairs 11 through 18 are connected via PBX crown connectors to register 0 on slide 6.

[9] Connect cables 253CL between terminal strips on translation unit and receiver unit per TABLE C, FIG. 2 and FIG. 3

[10] Test "TOUCH TONE" calling equipment per DLP-561. [NOTE 1]

NOTE 1
On a system installation, testing may be delayed until all options and features are installed

TABLE C
CONNECTIONS BETWEEN TRANSLATION UNIT AND RECEIVER MOUNTING SHELF
253CL CABLE

CONNECT TRANSLATION UNIT TERMINAL STRIP B (0, 1)*		TO RECEIVER MOUNTING SHELF 298A CONNECTOR, ROW (A, B)*	
TERMINAL	LEAD	TERMINAL	LEAD
38	LG1	5	LG1
28	LG2	6	LG2
18	LG3	7	LG3
37	LG4	8	LG4
27	HG1	2	HG1
17	HG2	3	HG2
36	HG3	4	HG3
26	STR	10	STR
35	T	12	T
25	R	13	R
31	GRD (RC)	9	GRD (RC)
11	-48 (RC)	15	-48 (RC)

* Connect B0 terminals to Row A terminals. Connect B1 terminals to row B terminals

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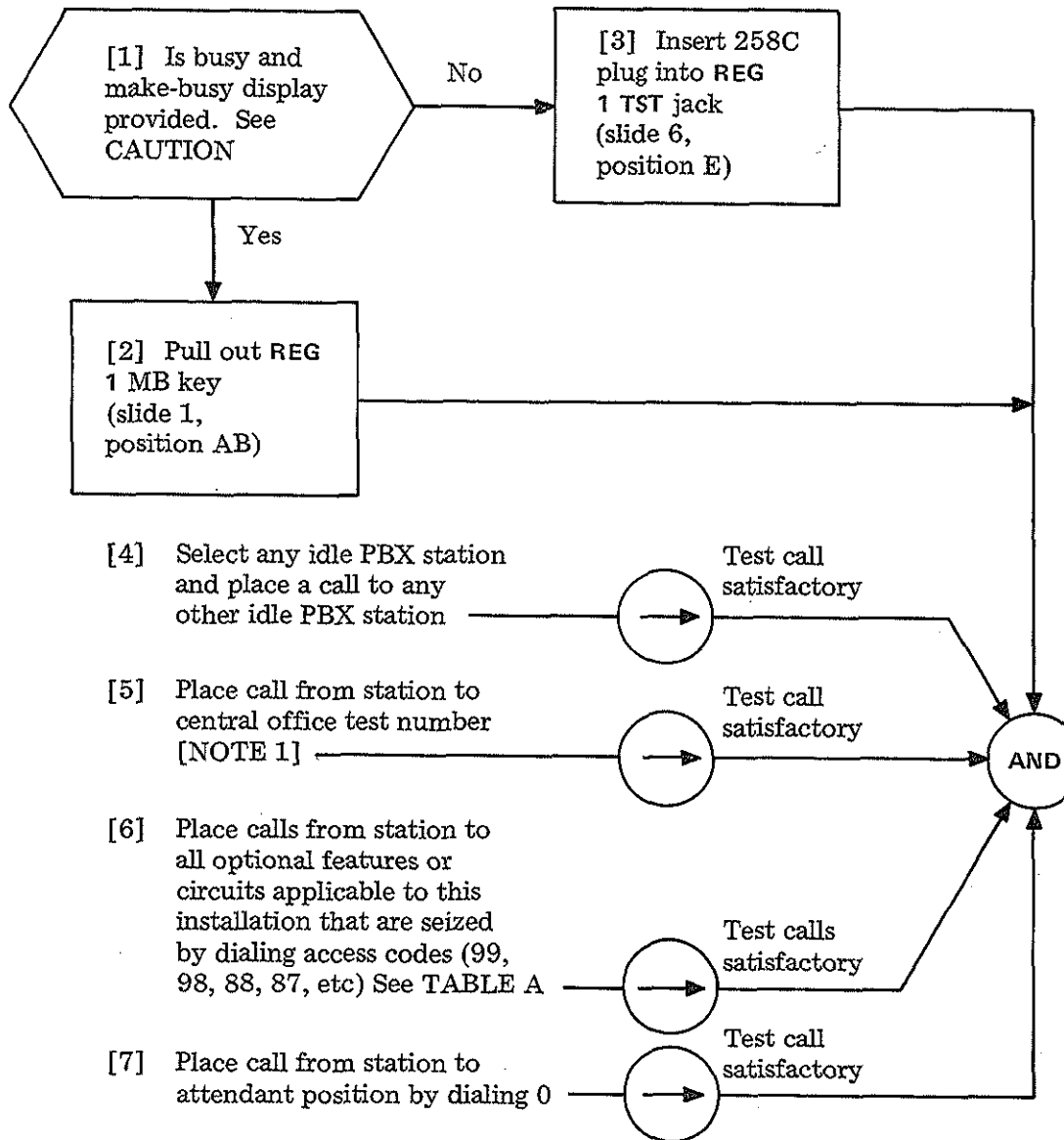
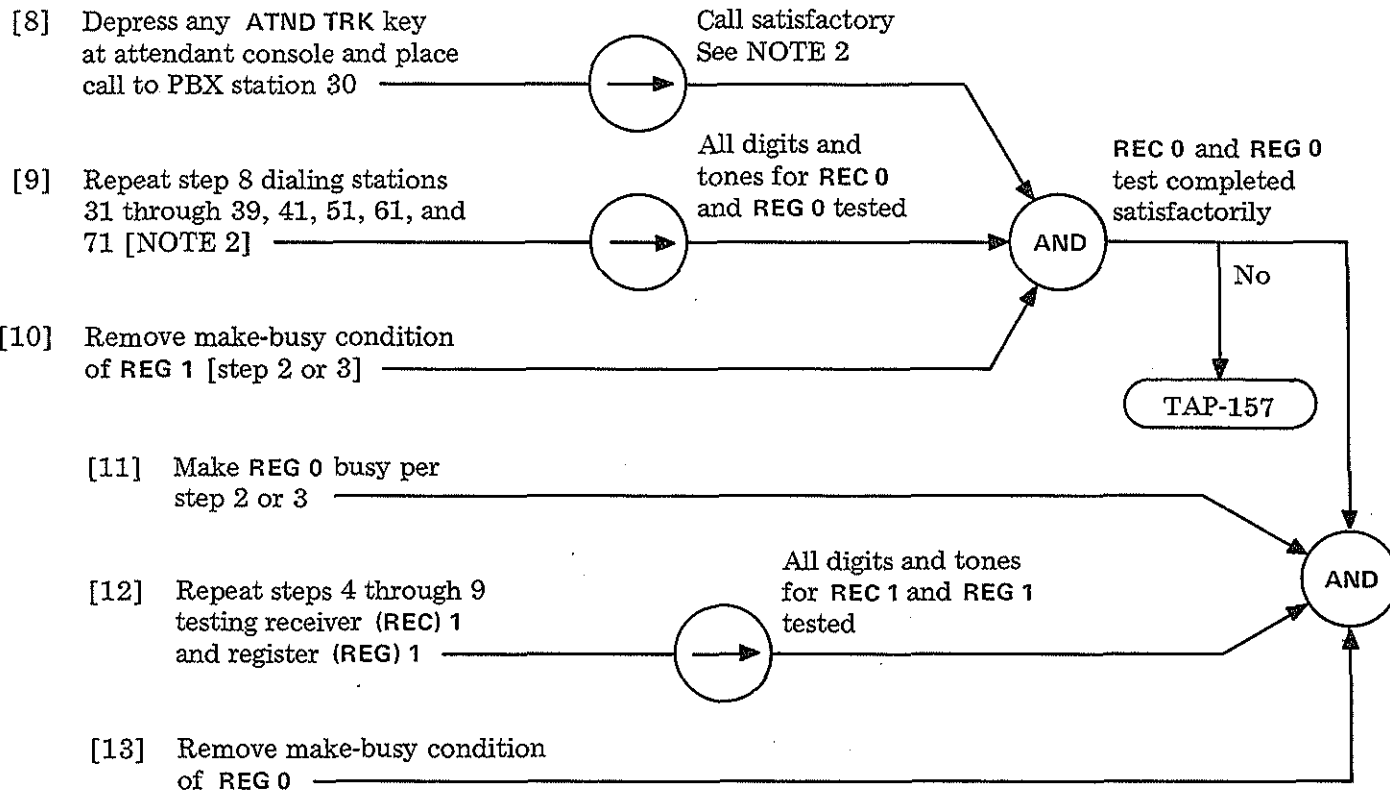


TABLE A	
	PROCEDURE
Ringdown Tie Trunk	DLP-552
Meet-Me-Type Conference	DLP-546
Station-Controlled Dial Conf	DLP-554
Loudspeaker Paging Trunk	DLP-544
Recorded Telephone Dictation	DLP-550
Code Call	DLP-540

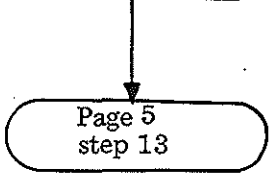
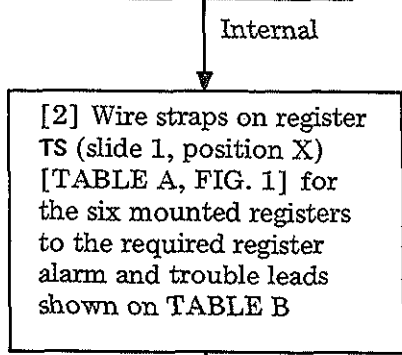
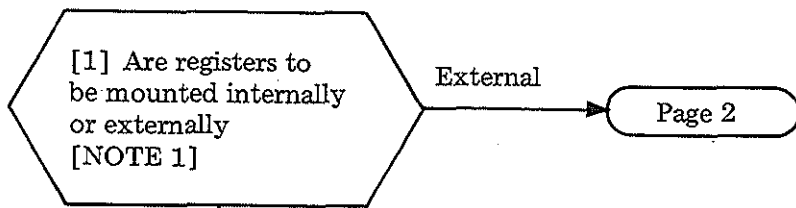
CAUTION
Use extreme care to not interrupt customer service

NOTE 1
Steps 5 and 6 are intended to test internal register and TOUCH-TONE calling equipment. Conventional BSP sections should be used to test external TOUCH-TONE to dial pulse and related equipment



NOTE 2
 If called station number is assigned the call can be completed to the station. If the number is unassigned, the call will be routed to intercept (See DLP-519)

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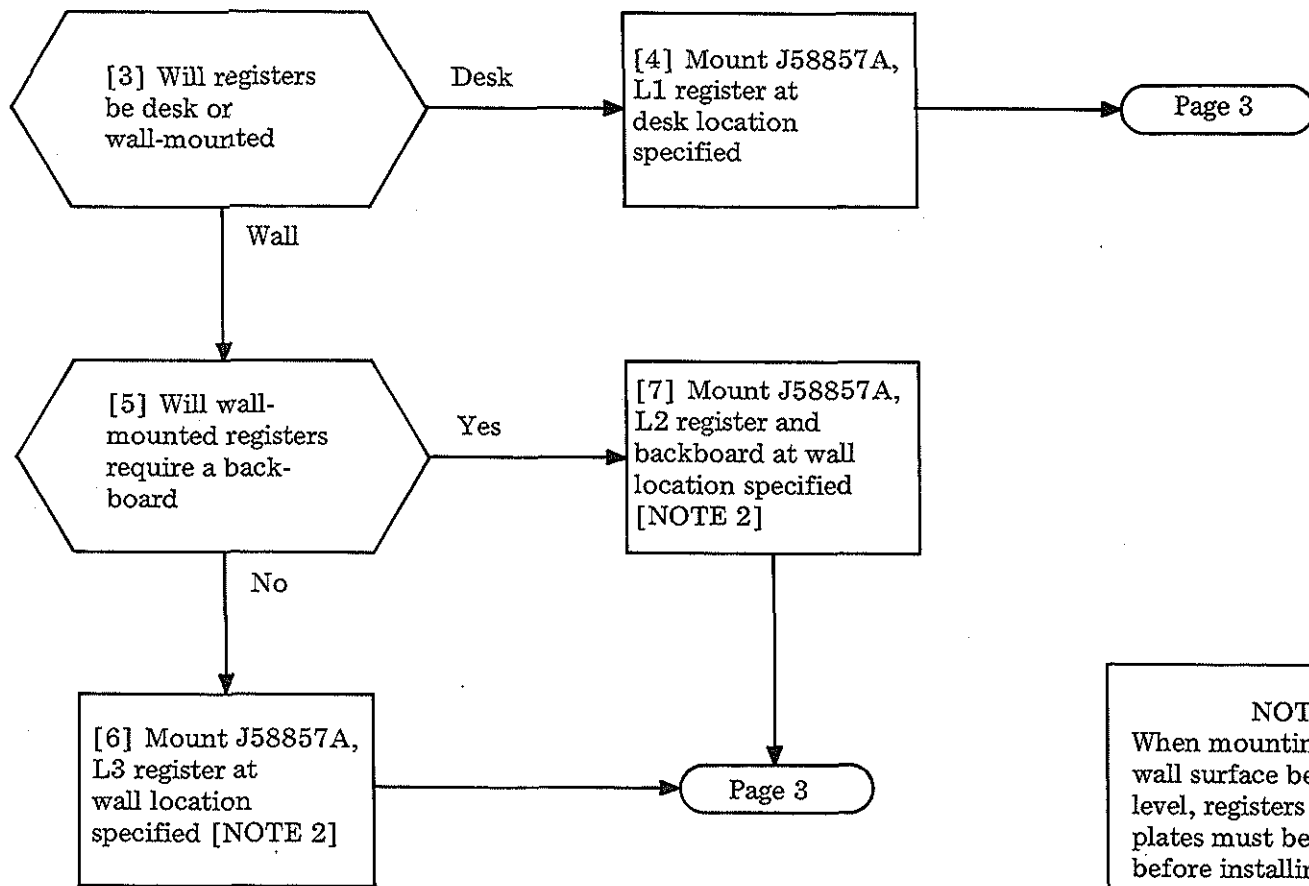
NOTE 1
Both internal and external registers may be used at the same time for a total of 16 registers if required

TABLE A	
INTERNAL REGISTER	REG TS
	TERM
1	41
2	42
3	43
4	44
5	45
6	46

58	18	CAD 10			
		TRIO	FA GRD	TR1	FA SAT
□	□	TR9	TR2	TPC	JOF
□	□	TR8	6 NCPC	BTPC	OFO
□	□	TR7	5 TRPC	OPC9	OF9
□	□	TR6	4 STPC	OPC8	OF8
□	□	TR5	3 TOPC	TPC0	BTOF
□	□	TR4	2 TPC	TPC9	LOF
□	□	TR3	1 OPC	TPC8	ROF
51	11	REG ALM AND TBL LEADS			

TABLE B		
REGISTRATION LEAD	REG TS TERM	FUNCTION
ROF	11	Dial pulse register overflow
LOF	12	Link overflow
BTOF	13	Busy-tone overflow
OF8	14	TRK GRP 8 overflow
OF9	15	TRK GRP 9 overflow
OFO	16	TRK GRP 0 overflow
JOF	17	Juncture overflow
TPC8	21	TRK GRP 8 terminating peg count
TPC9	22	TRK GRP 9 terminating peg count
TPC0	23	TRK GRP 0 terminating peg count
OPC8	24	TRK GRP 8 originating peg count
OPC9	25	TRK GRP 9 originating peg count
BTPC	26	Busy-tone peg count
JPC	27	Juncture peg count
OPC	31	Originating (STA) peg count
TPC	32	Terminating (TRK) peg count
TOPC	33	Time-out peg count
STPC	34	Second trial peg count
TRPC	35	Trouble release peg count
NCPC	36	No connection peg count

FIG. 1 — Register Terminal Strip (TS)



NOTE 2
 When mounting registers on wall surface below eye level, registers and face-plates must be inverted before installing

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[8] Wire straps on register TS [TABLE C, FIG. 1] (slide 1, position X) for ten externally mounted registers to required register alarm and trouble leads shown on TABLE B

[9] Place 25-pair inside wiring cable from J58857A register cabinet to cross-connect terminal

[10] Connect cable at register cabinet TS-A and cross-connect terminal per TABLE D

[11] See TABLE E. Place housing on register cabinet

[12] Mark registers with registration designation

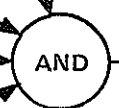


TABLE C	
EXTERNAL REGISTER	REG TS TERM
TR 1	28
TR 2	37
TR 3	51
TR 4	52
TR 5	53
TR 6	54
TR 7	55
TR 8	56
TR 9	57
TR 10	58

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TABLE D								
CONNECT		FROM		TO				
25-PR CABLE		EXT REG CABINET	REG LEAD	CROSS-CONNECT TERMINAL				
PAIR	COLOR			TS-A TERM	PREWIRED		WALL-MTD	
		BLOCK AND TERM			BLOCK AND TERM		COLOR	
1T	W-BL	1	TR1	G-W BINDER CONNECTING BLOCK D1	7R	G-W BINDER CONNECTING BLOCK A4	T10	R-S
1R	BL-W	2	TR2		7T		R9	BR-R
2T	W-O	3	TR3		6R		T9	R-BR
2R	O-W	4	TR4		6T		R8	G-R
3T	W-G	5	TR5		5R		T8	R-G
3R	G-W	6	TR6		5T		R7	O-R
4T	W-BR	7	TR7		4R		T7	R-O
4R	BR-W	8	TR8		3R		T2	W-O
5T	W-S	9	TR9		3T		R1	BL-W
5R	S-W	10	TR10		2R		T1	W-BL
6T	R-BL	11	TR BAT		8T		R10	S-R
6R	BL-R	Spare						

Pairs 7 through 25 spare

TABLE E		
SPEC	LIST NO.	HOUSING COLOR
J58857A	L7	Beige
	L8	Lt gray
	L9	Moss green
	L10	White
	L11	Ivory
	L12	Black

INSTALL AND TEST TRAFFIC AND TROUBLE REGISTERS (SD-65749, SD-5E010)

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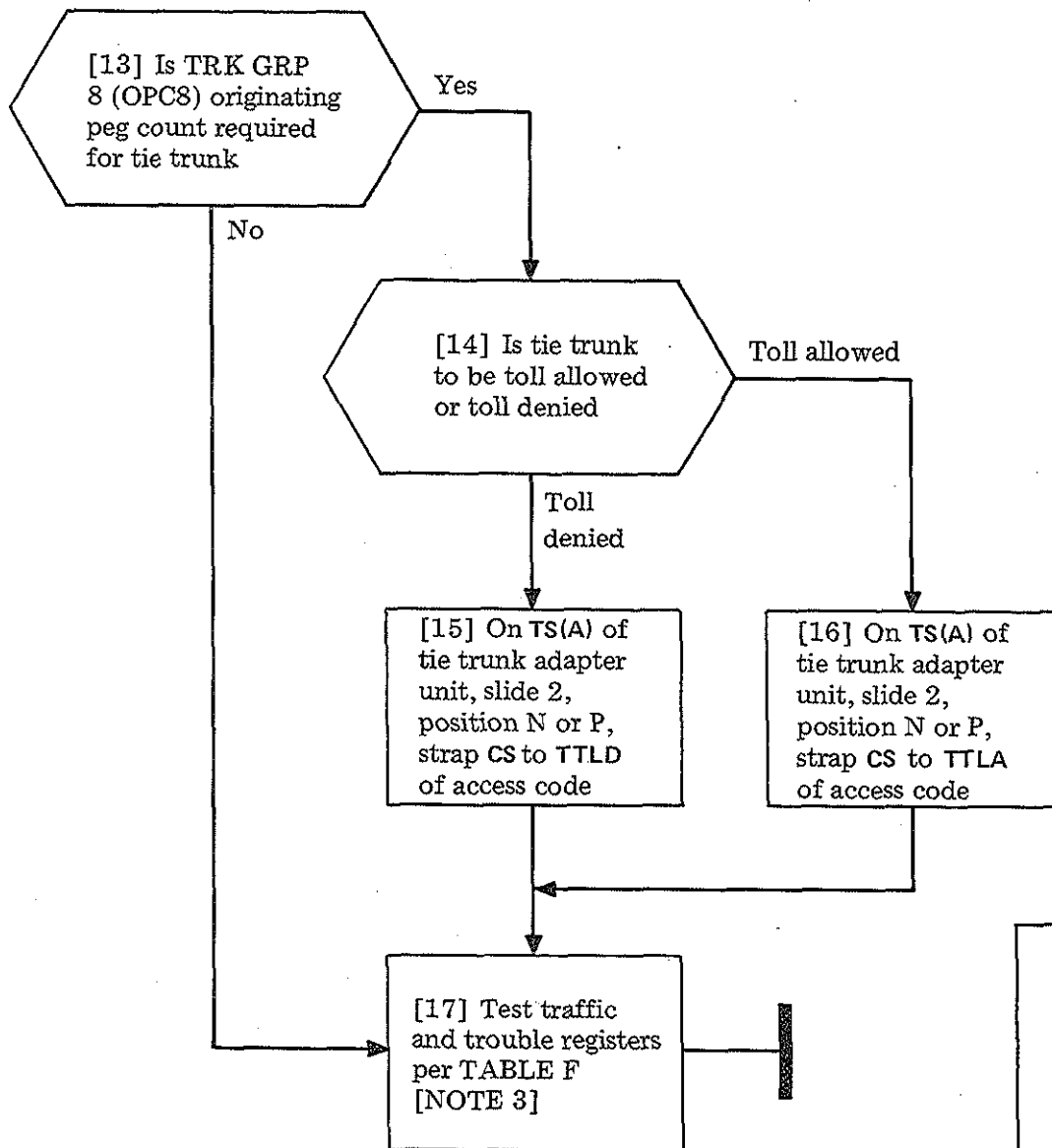
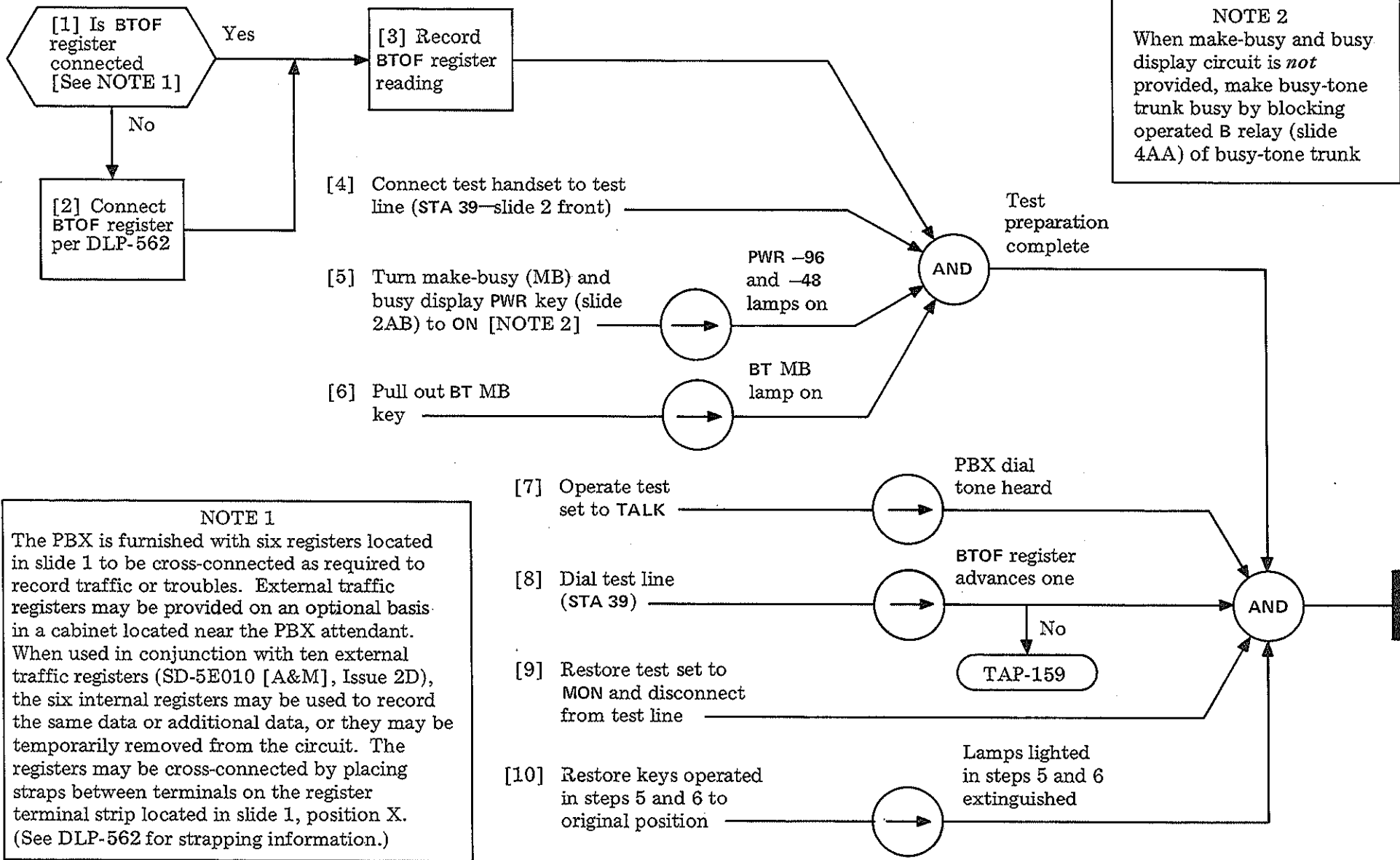


TABLE F	
REGISTERS	TEST PROCEDURE
Busy-Tone Overflow (BTOF)	DLP-563
Busy-Tone Peg Count (BTPC)	DLP-564
Junctor Overflow (JOF)	DLP-565
Junctor Peg Count (JPC)	DLP-566
Link Overflow (LOF)	DLP-567
No-Connection Peg Count (NCPC)	DLP-568
Originating (Station) Peg Count (OPC)	DLP-569
Register Overflow (ROF)	DLP-570
Second Trial Peg Count (STPC)	DLP-568
Terminating (Trunk) Peg Count (TPC)	DLP-571
Time-Out Peg Count (TOPC)	DLP-568
TRK GRP 8 Overflow (OF8)	DLP-572
TRK GRP 9 Overflow (OF9)	DLP-573
TRK GRP 0 Overflow (OF0)	DLP-574
TRK GRP 8 Terminating Peg Count (TPC8)	DLP-575
TRK GRP 8 Originating Peg Count (OPC8)	DLP-576
TRK GRP 9 Terminating Peg Count (TPC9)	DLP-577
TRK GRP 9 Originating Peg Count (OPC9)	DLP-578
TRK GRP 0 Terminating Peg Count (TPC0)	DLP-579
Trouble Release Peg Count (TRPC)	DLP-568

NOTE 3
On a system installation, testing may be delayed until all options or features are installed



NOTE 2
 When make-busy and busy display circuit is *not* provided, make busy-tone trunk busy by blocking operated B relay (slide 4AA) of busy-tone trunk

NOTE 1
 The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

TEST BUSY-TONE OVERFLOW (BTOF) REGISTER

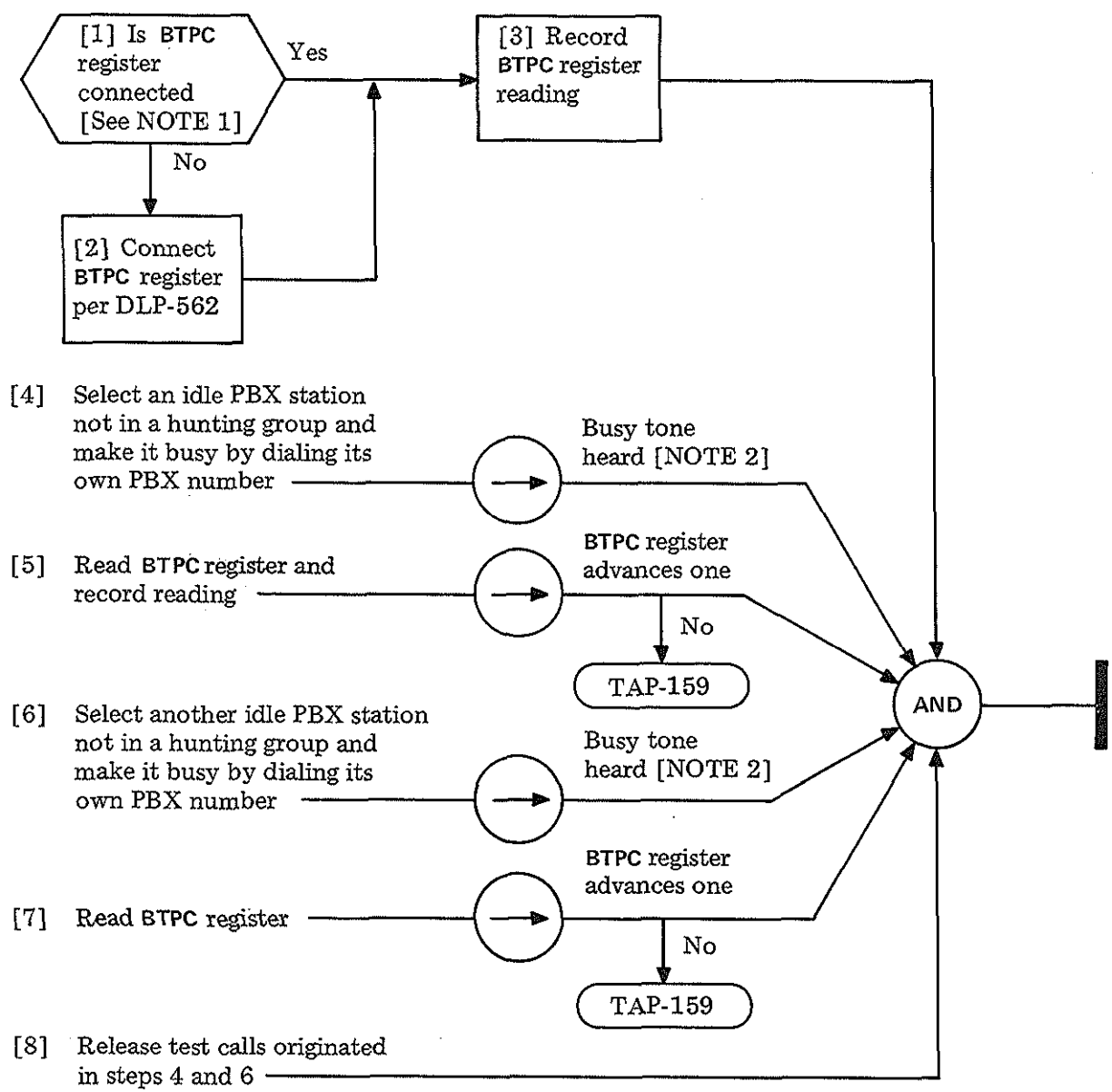
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NOTE 1

The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

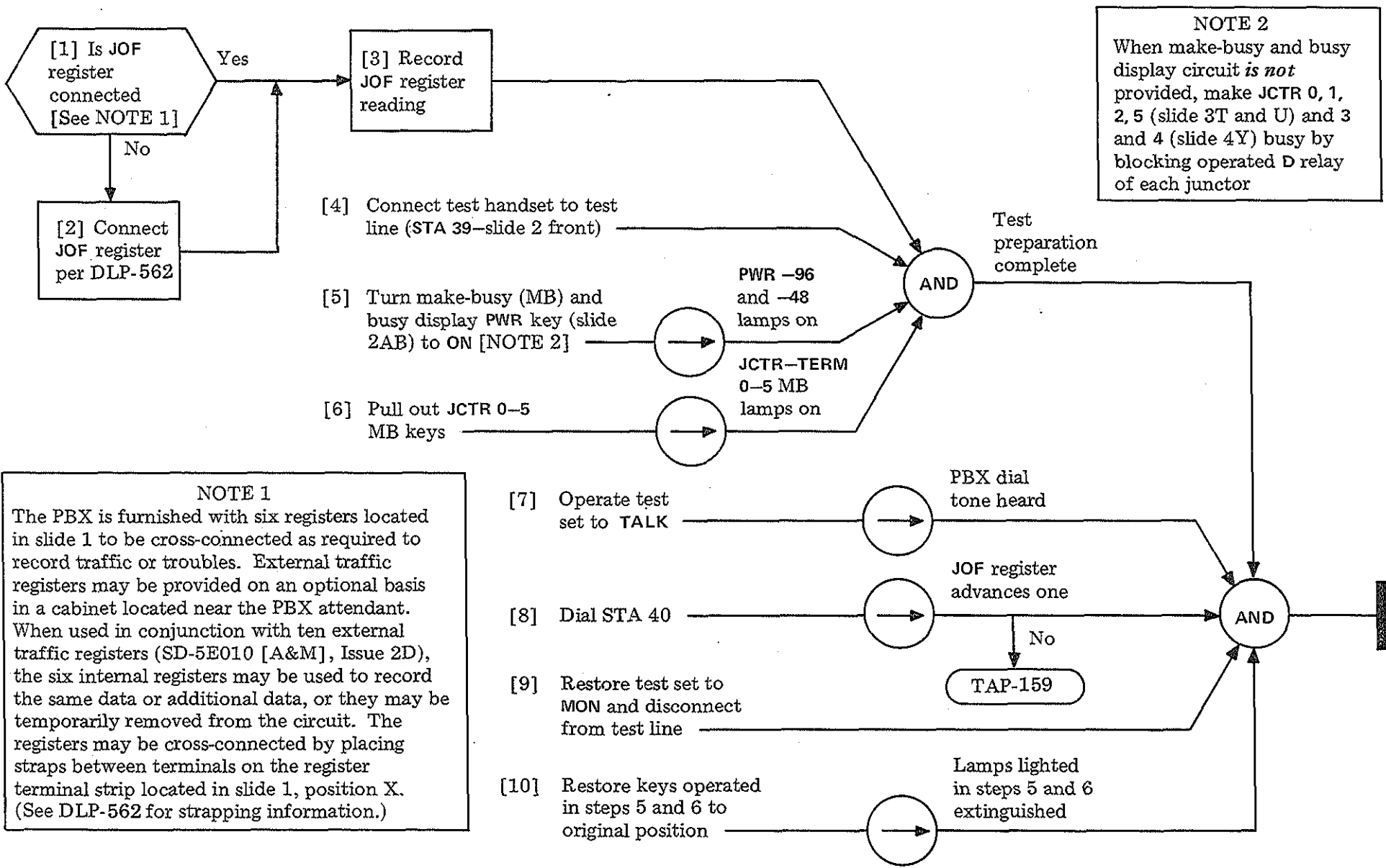
NOTE 2

The busy-tone trunk supplies the first busy tone. When busy-tone trunk is busy, a dial pulse register provides subsequent busy tone. If both sources of busy-tone are in use, no busy tone will be heard. Register busy tone will time-out after approximately 15 seconds and transfer call to the attendant



TEST BUSY-TONE PEG COUNT (BTPC) REGISTER

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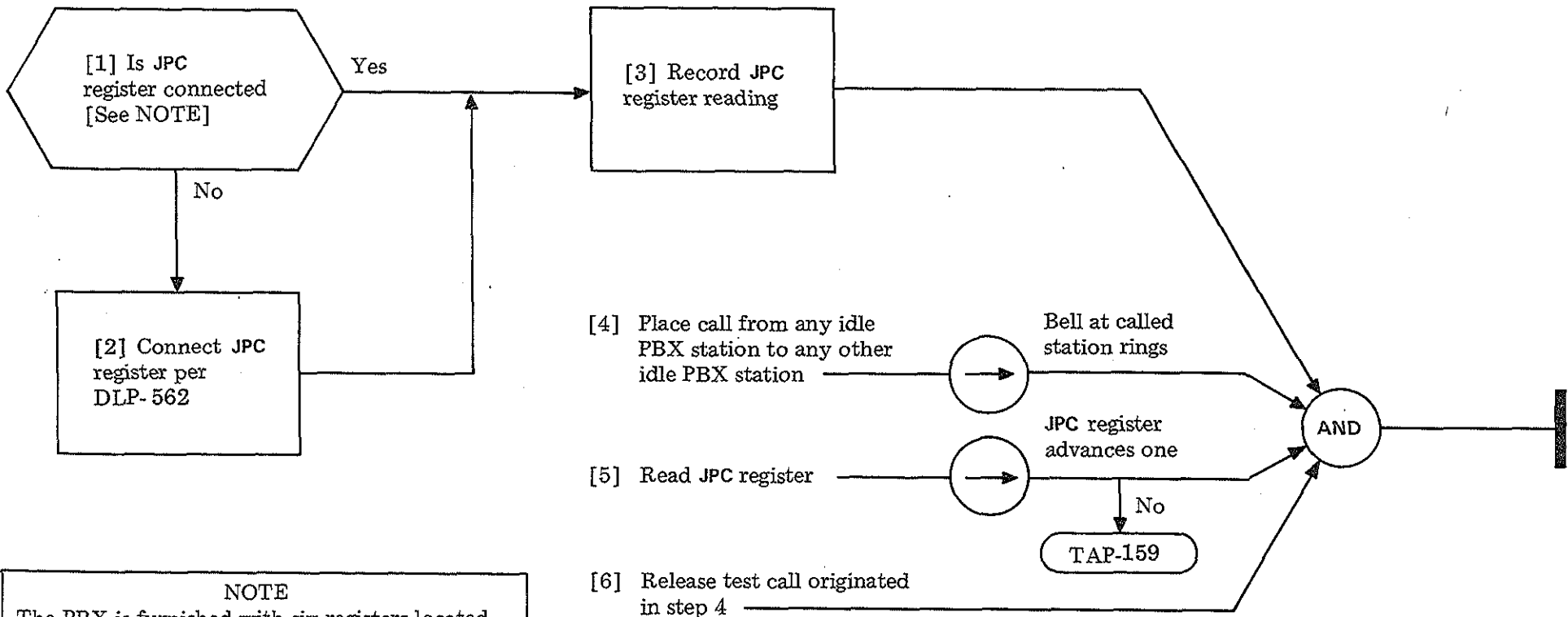


NOTE 2
 When make-busy and busy display circuit *is not* provided, make JCTR 0, 1, 2, 5 (slide 3T and U) and 3 and 4 (slide 4Y) busy by blocking operated D relay of each junctor

NOTE 1
 The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

TEST JUNCTOR OVERFLOW (JOF) REGISTER

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NOTE

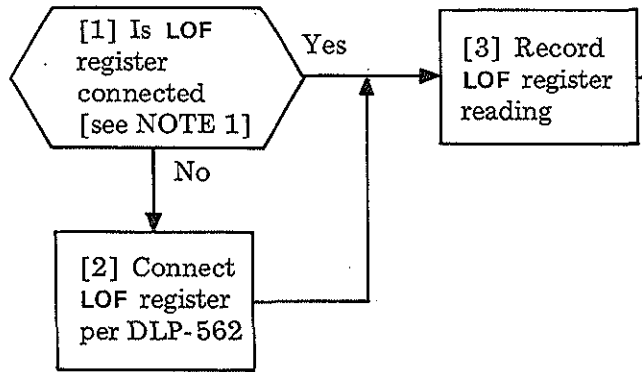
The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

TEST JUNCTOR PEG COUNT (JPC) REGISTER

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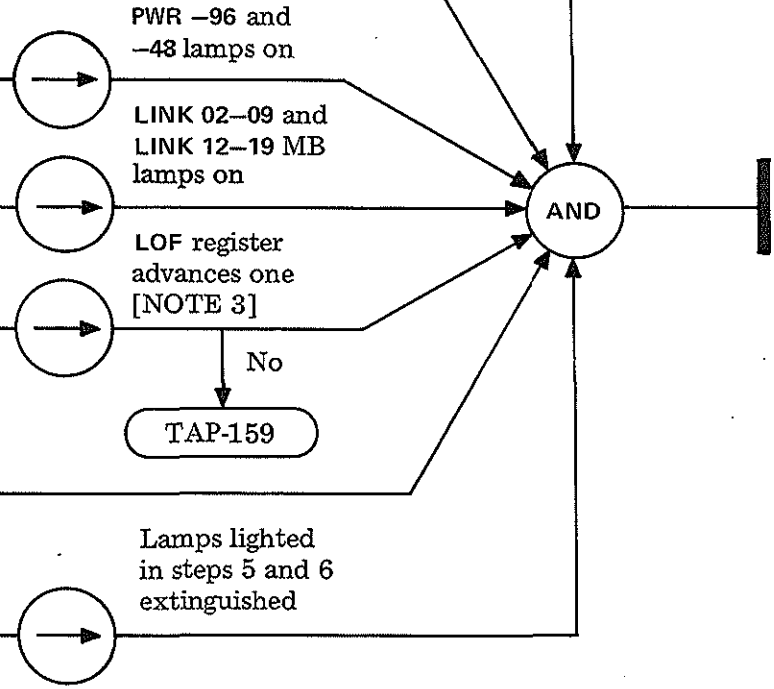
NOTE 2
 When make-busy and busy display circuit is *not* provided, make LINK 02-09 and 12-19 busy by blocking nonoperated LTS2-LTS9 relays (slide 6P) in marker circuit

NOTE 3
 Register advances one each 1/2 second while test set remains on TALK in step 7



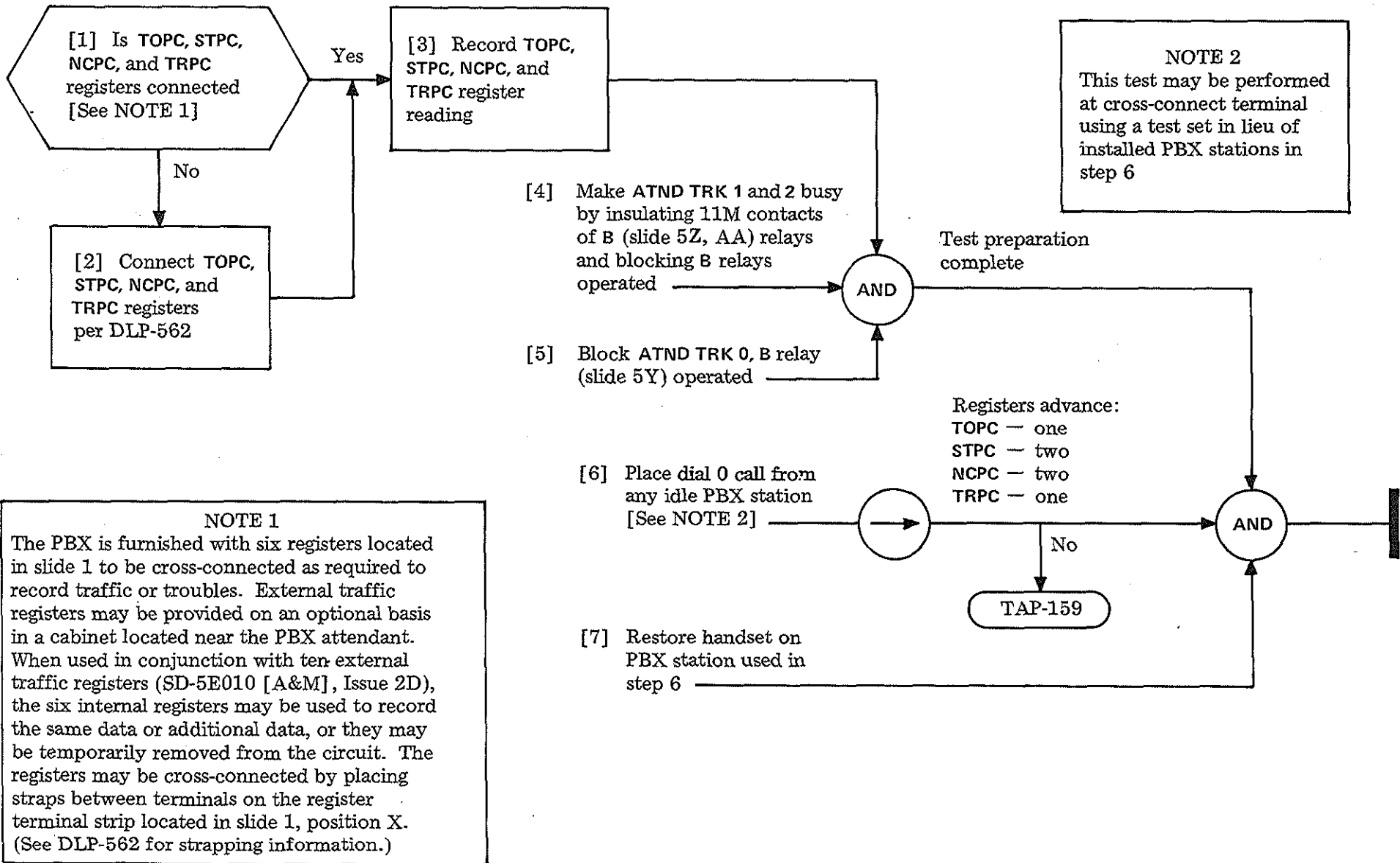
NOTE 1
 The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

- [4] Connect test handset to test line (STA 39—slide 2 front)
- [5] Turn make-busy (MB) and busy display PWR key (slide 2AB) to ON [NOTE 2]
- [6] Pull out LINK 02-09 and LINK 12-19 MB keys
- [7] Operate test set to TALK
- [8] Restore test handset to MON and disconnect from test line
- [9] Restore keys operated in steps 5 and 6 to original position



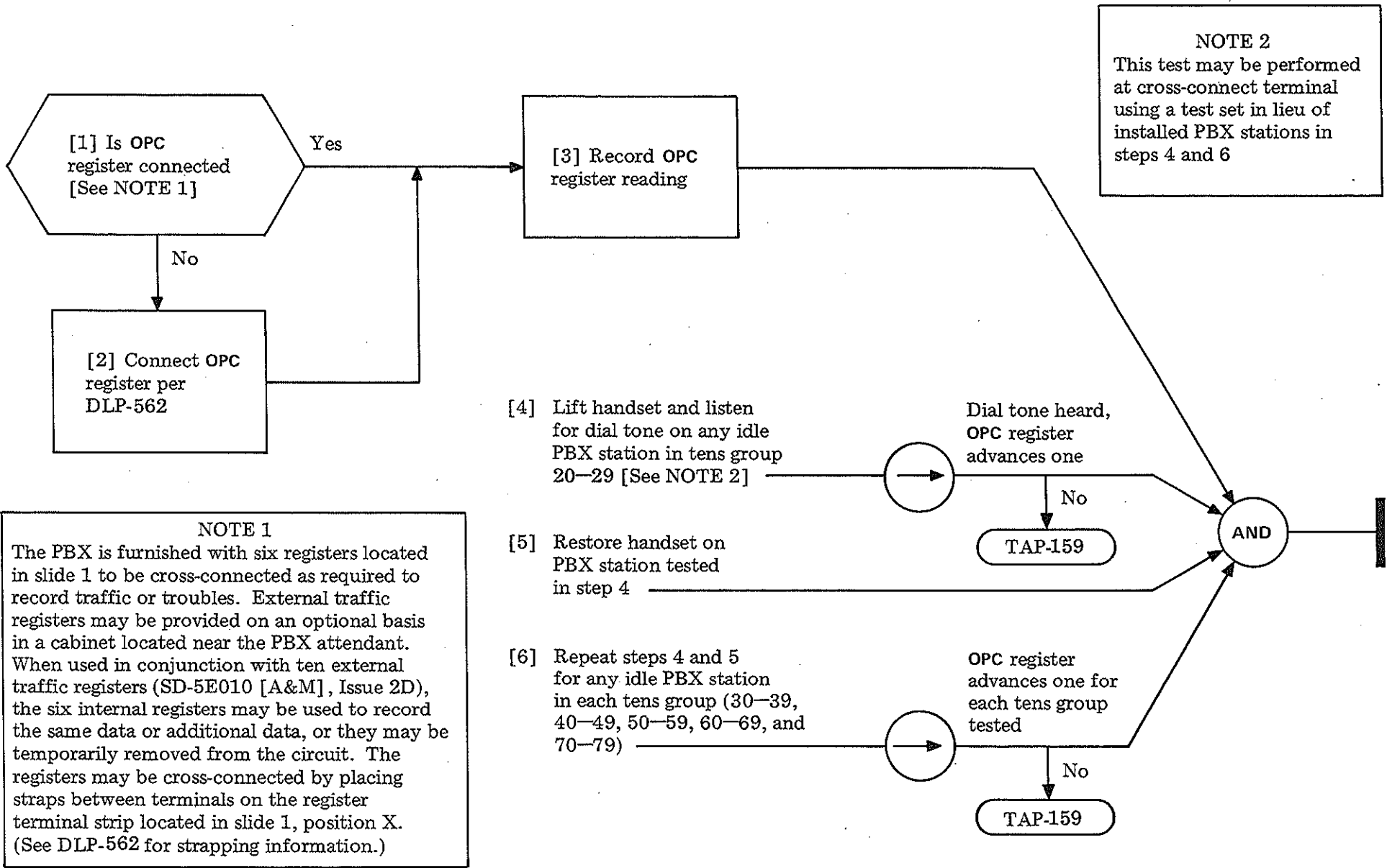
TEST LINK OVERFLOW (LOF) REGISTER

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TEST TIME-OUT (TOPC), SECOND TRIAL (STPC), NO CONNECTION (NCPC), AND TROUBLE RELEASE (TRPC) PEG COUNT REGISTERS

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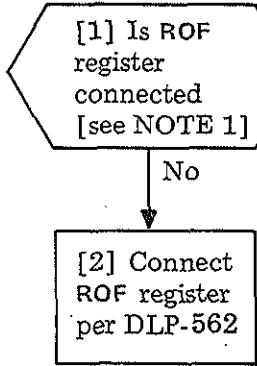
NOTE 1
 The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

NOTE 2
 This test may be performed at cross-connect terminal using a test set in lieu of installed PBX stations in steps 4 and 6

TEST ORIGINATING (STA) PEG COUNT (OPC) REGISTER

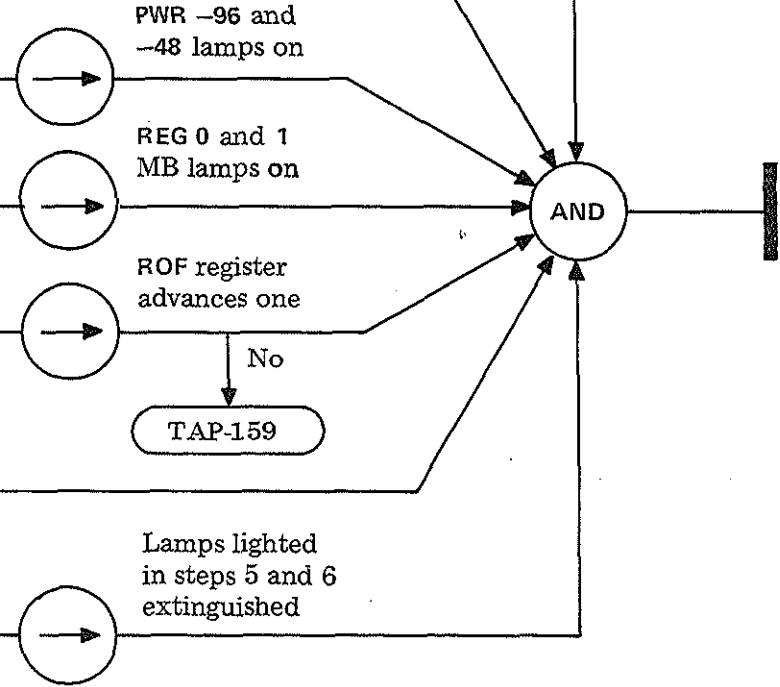
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NOTE 2
 When make-busy and busy display circuit is *not* provided, make REG 0 and 1 busy by inserting dummy plugs (258C) into TST jacks of REG 0 and 1 (slide 6B and E)



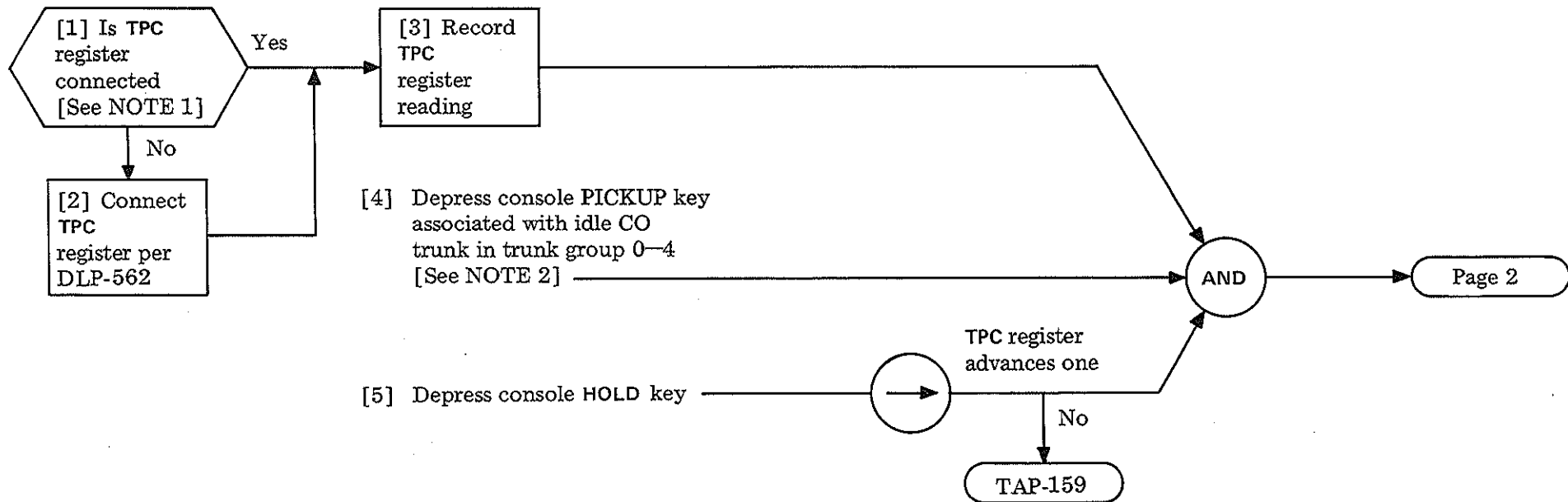
NOTE 1
 The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

- [4] Connect test handset T and R of test line (STA 39—slide 2 front, position L)
- [5] Turn make-busy (MB) and busy display PWR key (slide 2AB) to ON [NOTE 2]
- [6] Pull out REG 0 and 1 MB keys
- [7] Operate test set to TALK
- [8] Restore test set to MON and disconnect from test line
- [9] Restore keys operated in steps 5 and 6 to original position



TEST REGISTER OVERFLOW (ROF) REGISTER

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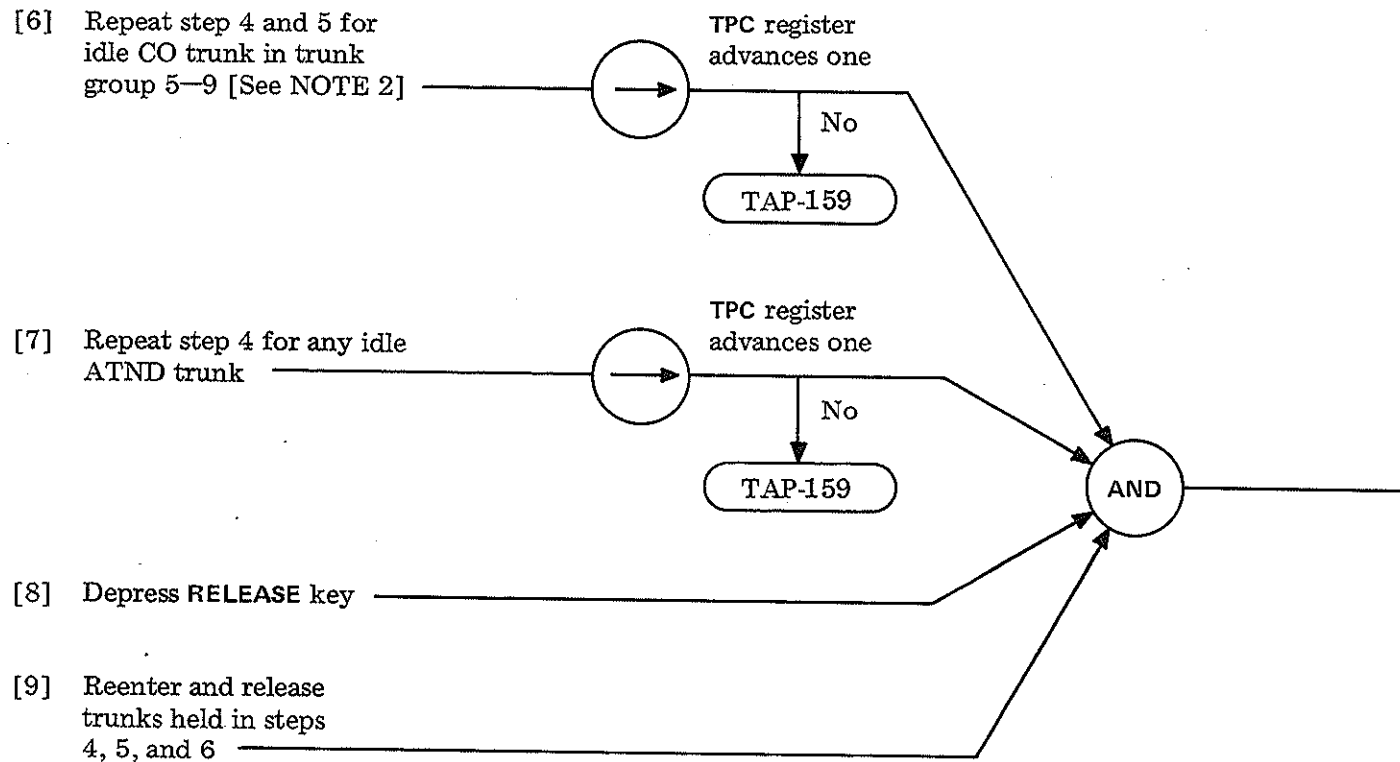


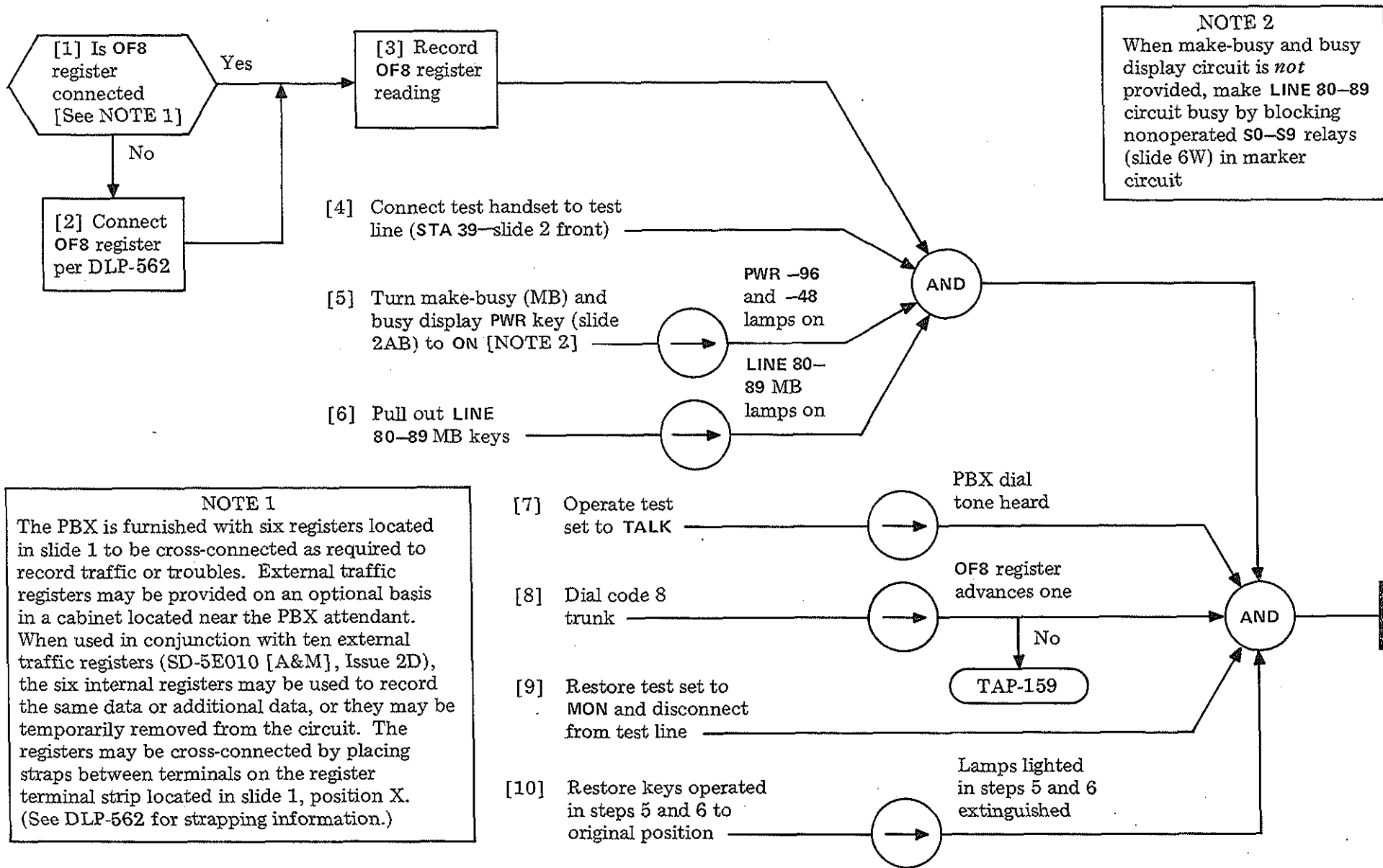
NOTE 1

The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

NOTE 2

CO trunks are located in cabinet 2, slide 5, and are designated CO TRUNK 0-9 from bottom to top. Refer to local assignment records and select a trunk for step 4 that appears on the console and is connected to any trunk on slide 5 designated 0 through 4. For step 6, select a CO trunk connected to any trunk on slide 5 designated 5 through 9.



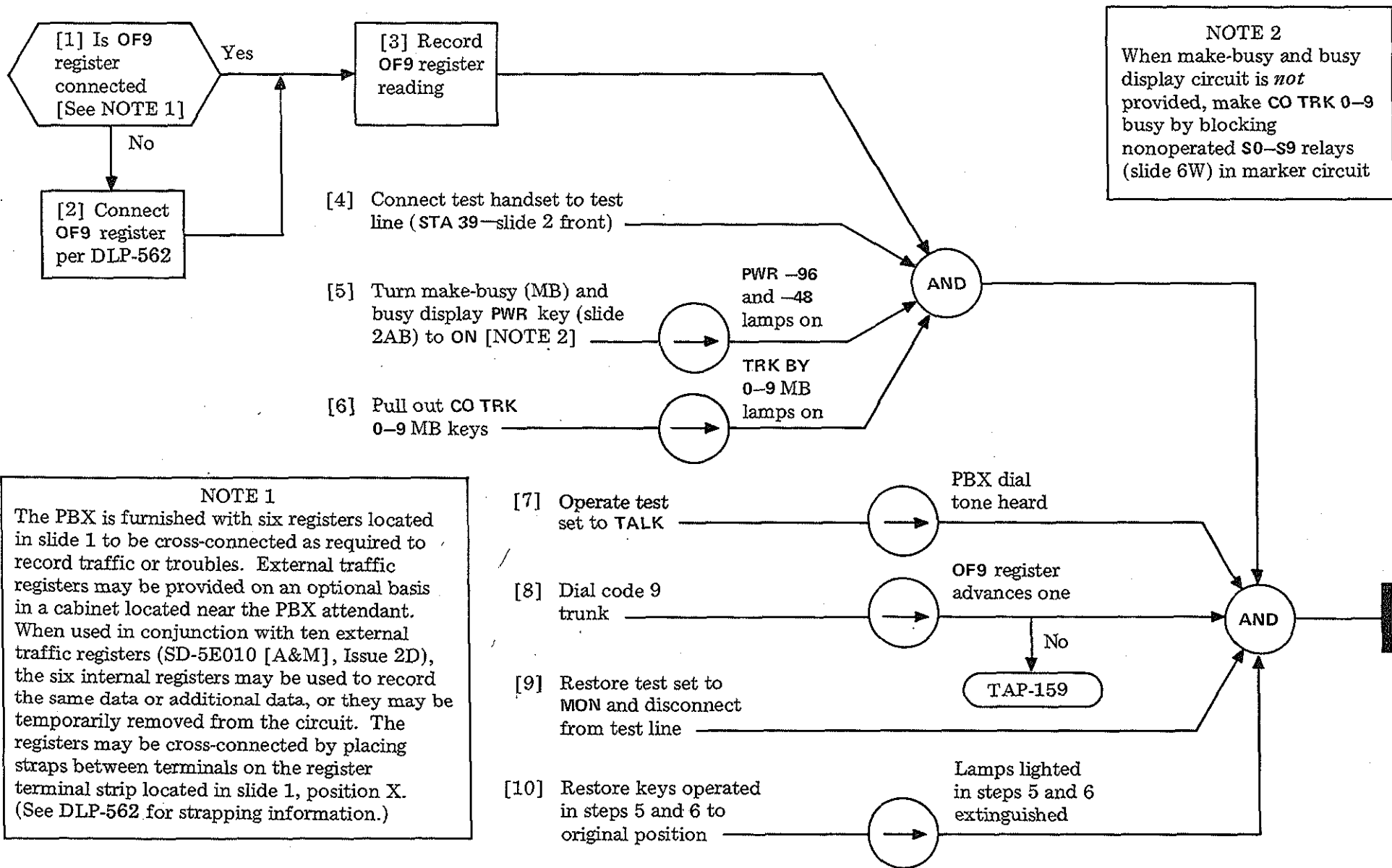


NOTE 2
 When make-busy and busy display circuit is *not* provided, make LINE 80-89 circuit busy by blocking nonoperated S0-S9 relays (slide 6W) in marker circuit

NOTE 1
 The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

TEST TRK GRP 8 OVERFLOW (OF8) REGISTER

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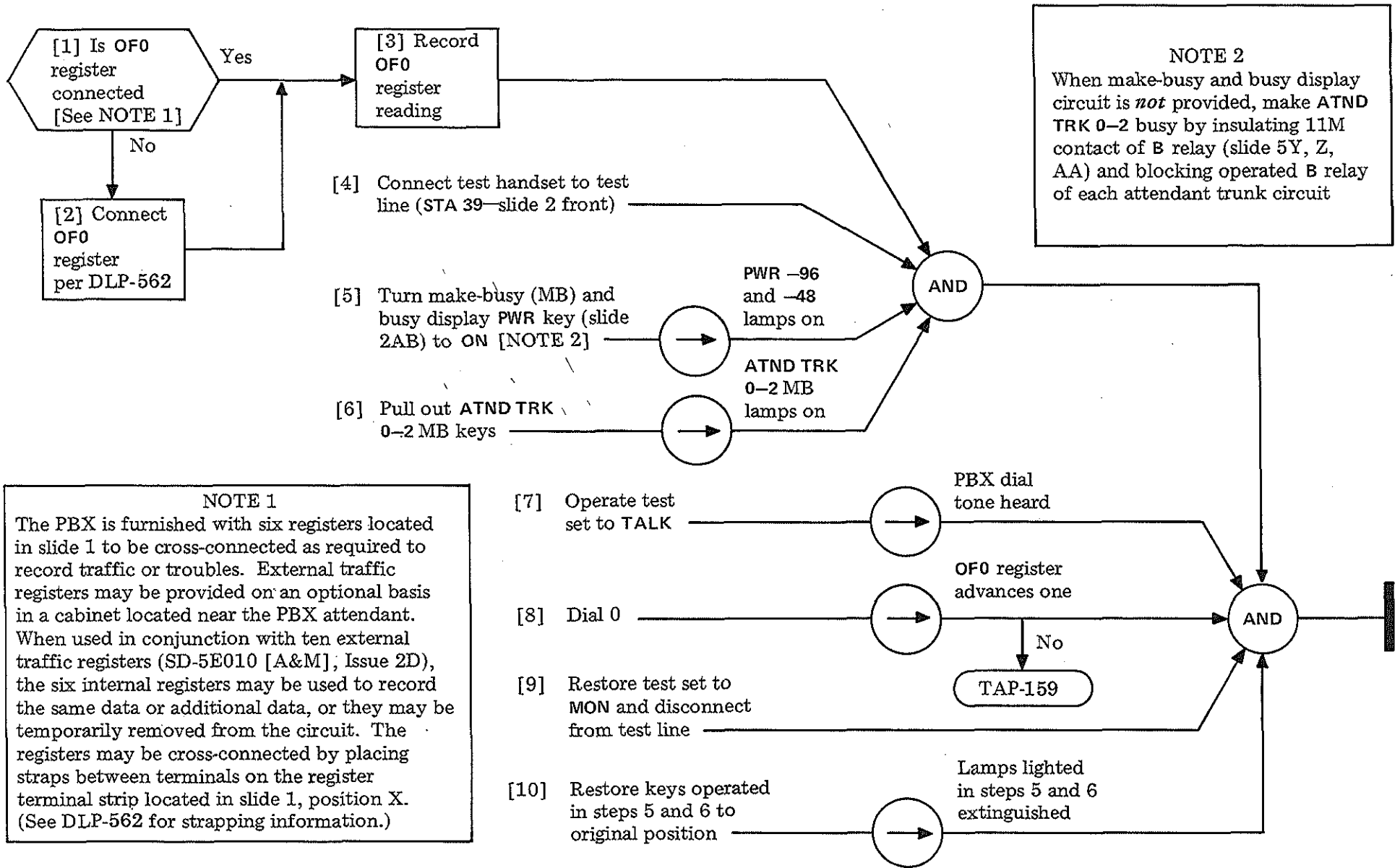


NOTE 2
When make-busy and busy display circuit is *not* provided, make CO TRK 0-9 busy by blocking nonoperated S0-S9 relays (slide 6W) in marker circuit

NOTE 1
The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

TEST TRK GRP 9 OVERFLOW (OF9) REGISTER

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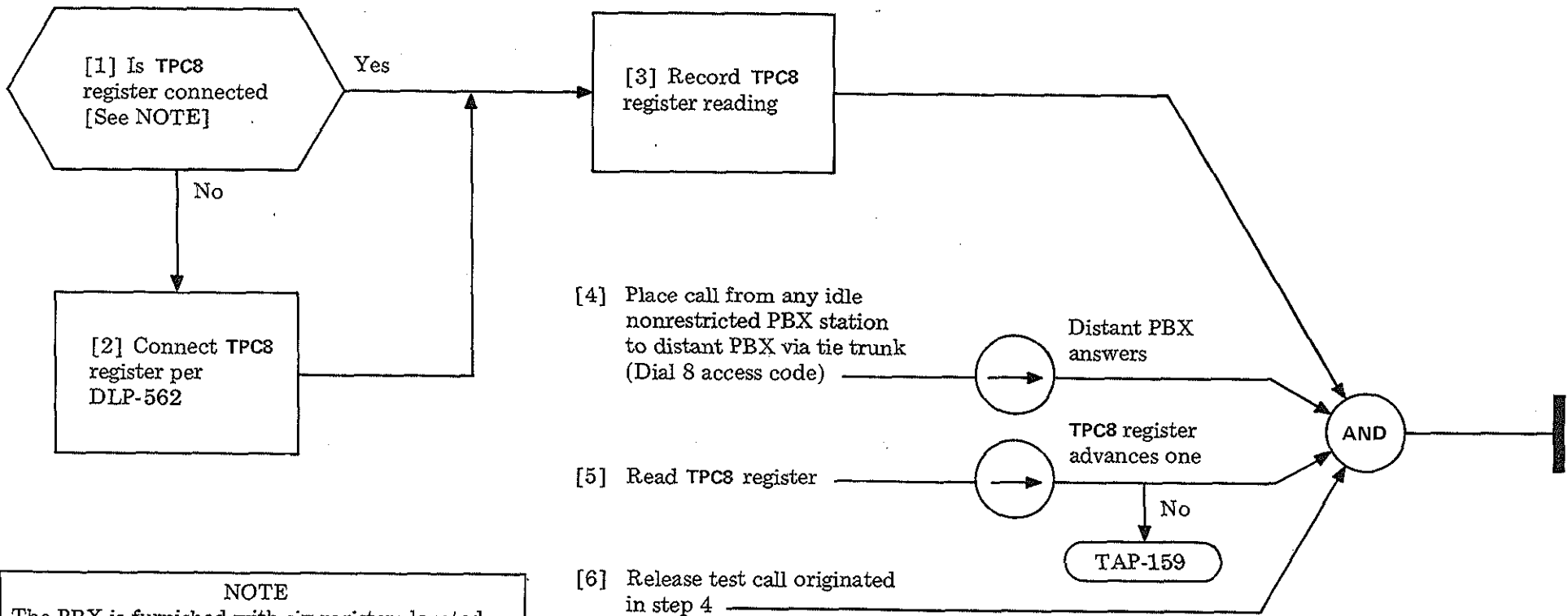


NOTE 2
 When make-busy and busy display circuit is *not* provided, make ATND TRK 0-2 busy by insulating 11M contact of B relay (slide 5Y, Z, AA) and blocking operated B relay of each attendant trunk circuit

NOTE 1
 The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M]; Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

TEST TRK GRP 0 OVERFLOW (OF0) REGISTER

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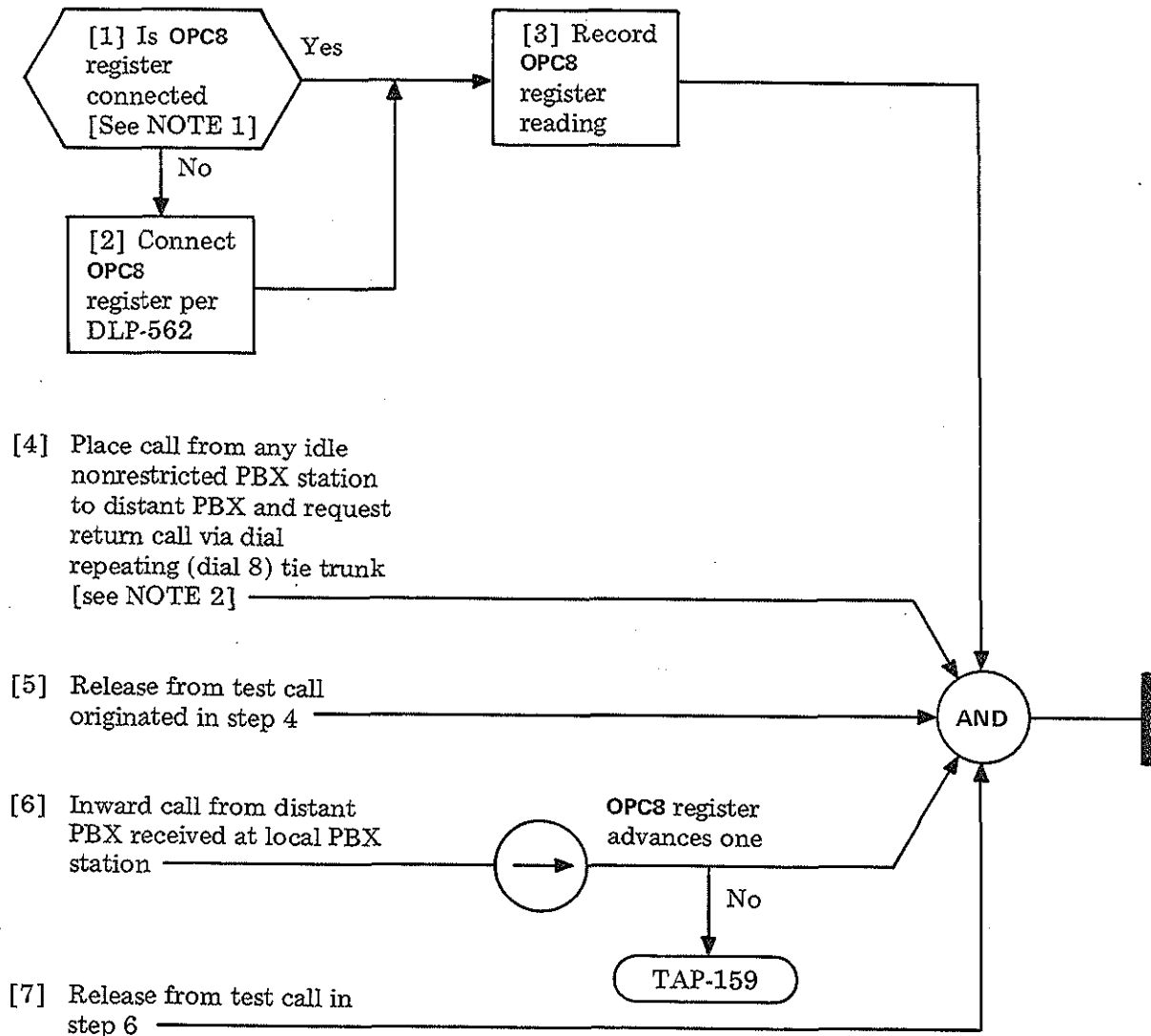
NOTE
 The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

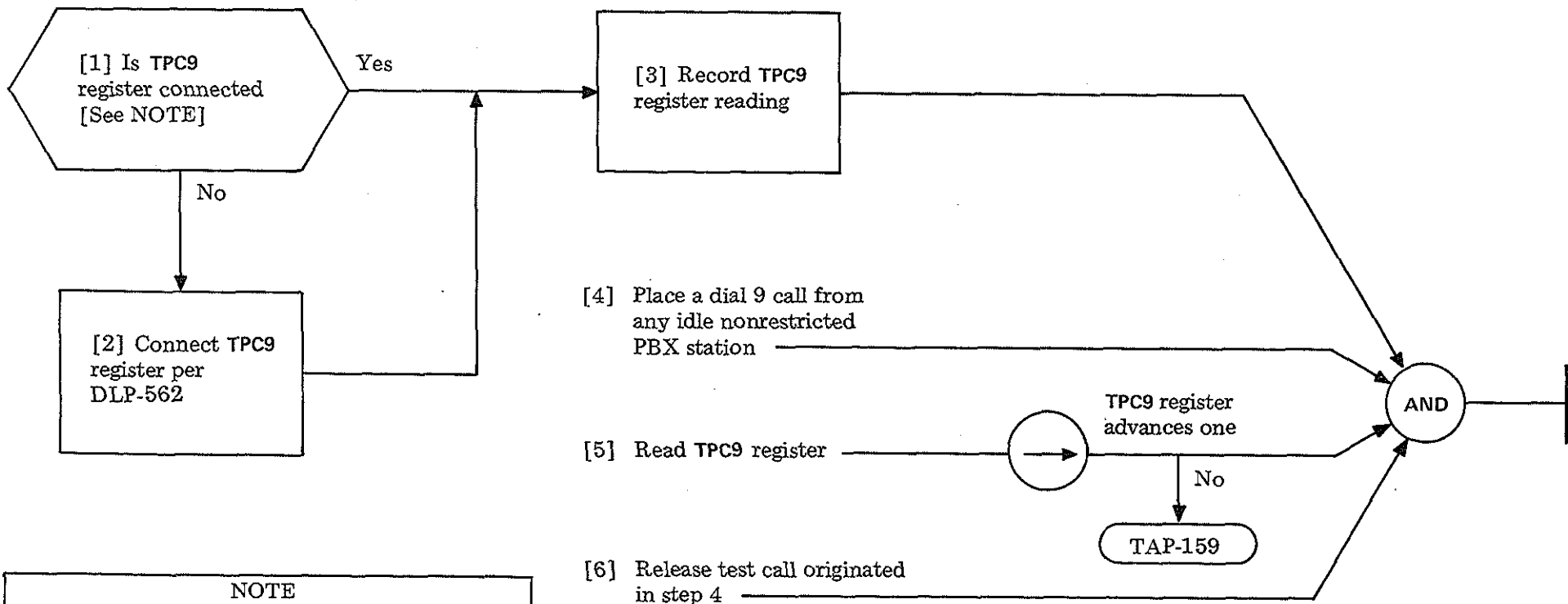
TEST TRK GRP 8 TERMINATING PEG COUNT (TPC8) REGISTER

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NOTE 1
 The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

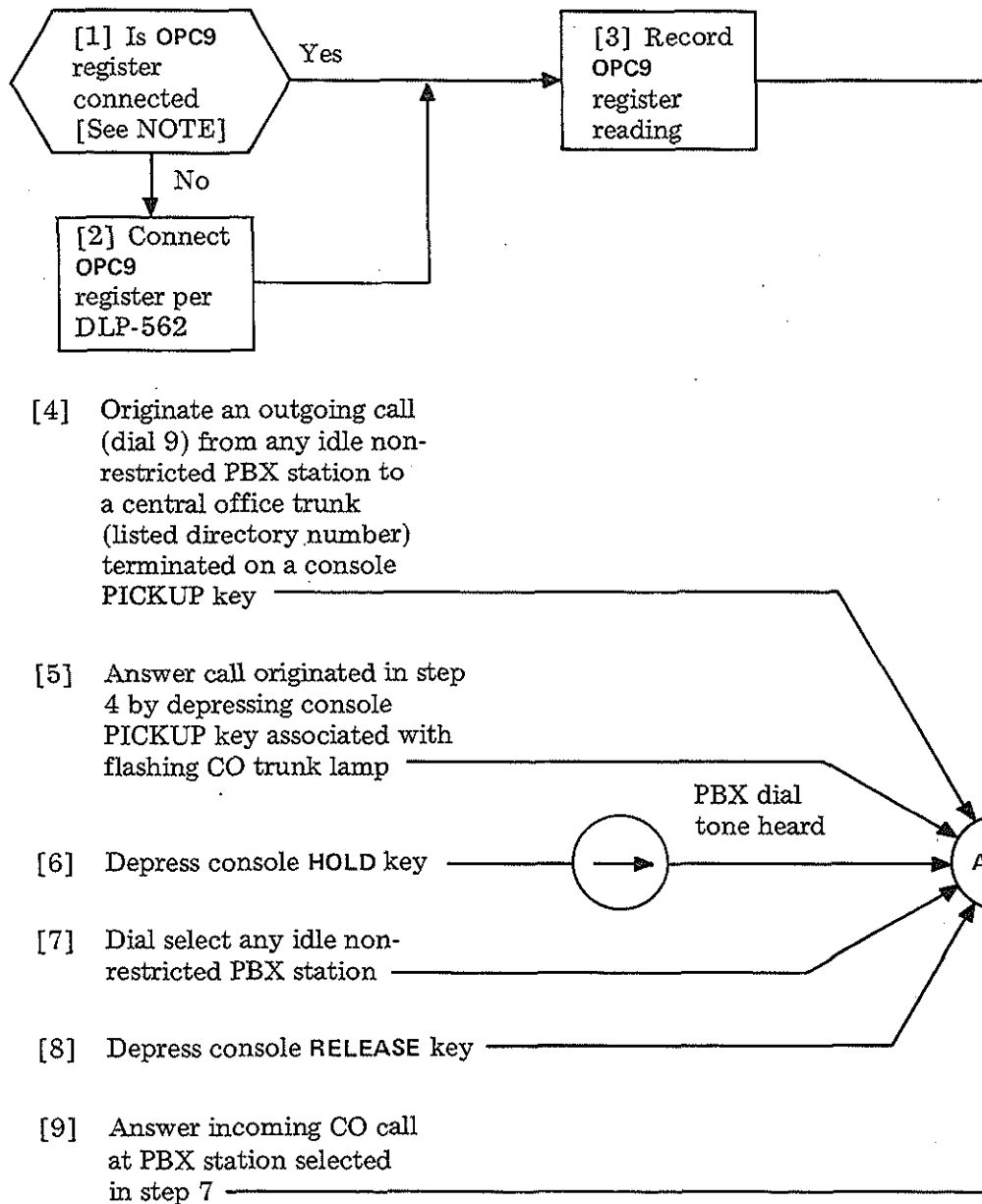
NOTE 2
 If test call from distant PBX via dial repeating tie trunk cannot be arranged, test may be performed by going across terminals 1 and 2 (T and R leads) of tie trunk TS with test set in TALK position. This operation will cause OPC8 register to advance one.





NOTE

The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

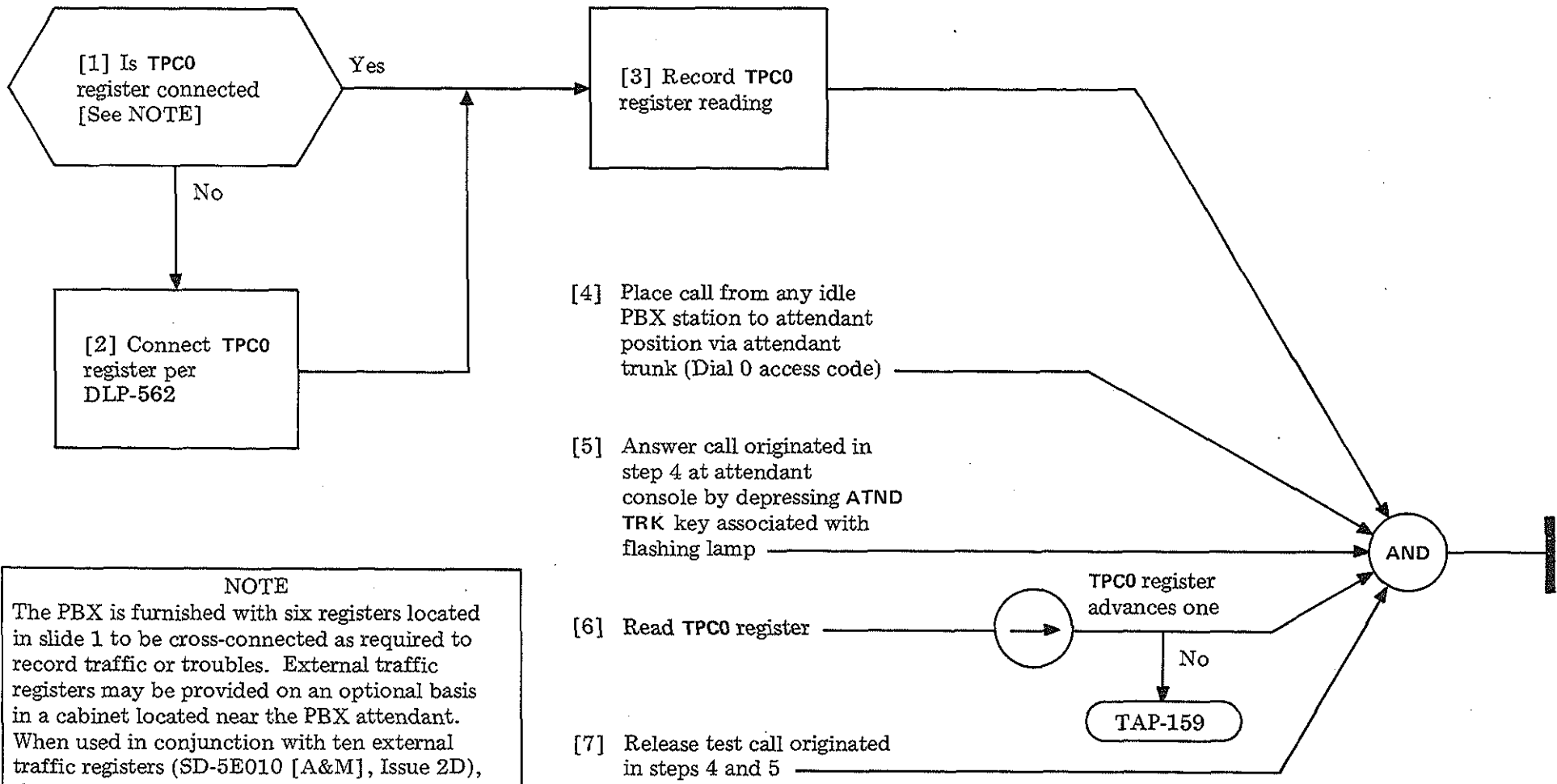


NOTE

The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

TEST TRK GRP 9 ORIGINATING PEG COUNT (OPC9) REGISTER

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NOTE

The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [A&M], Issue 2D), the six internal registers may be used to record the same data or additional data, or they may be temporarily removed from the circuit. The registers may be cross-connected by placing straps between terminals on the register terminal strip located in slide 1, position X. (See DLP-562 for strapping information.)

[1] Unpack and locate remote scanner and encoder unit J3B005A (RSEU) close to PBX cabinet 1

[2] Unpack and locate data set J3B005D close to RSEU

[3] Mate connectors BA3, BB3, BC3, and BD3 of crown cable J58829A, L57 [FIG. 1] to crown connectors above slide 3 [NOTE 1]

NOTE 1
Cabinets 1 and 2 must be J58829A, L52 or later to be compatible with TMS 1A and interslide crown cable must be J58829A, L56, B or P (has plugs AC2, 3; M5, BB5)

[4] Connect J58829A, L57 [FIG. 1] connectors 3 and 4 to KS-19163, L25 connectors (2) of two P50B cables [FIG. 2]

[5] Connect the scanner plug of P50B cables [FIG. 2] to jacks J3 and J4 of scanner unit

AND Page 2

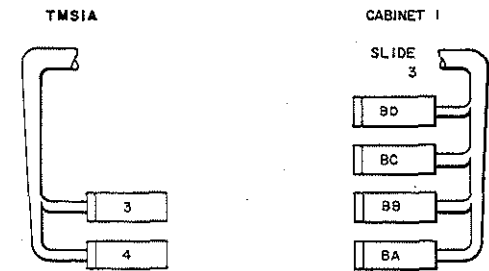


FIG. 1

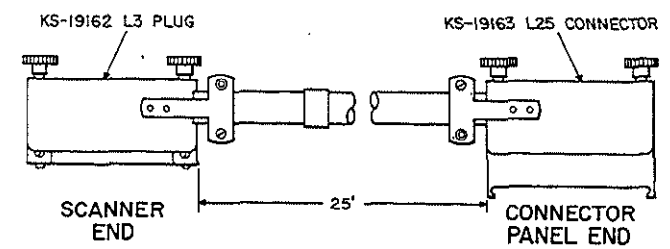


FIG. 2 - P50B Cable

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[6] Connect M25B cord (4 ft long) to J1 of RSEU and other end to data set 401H6

[7] Connect data set J3B005D (401H6) to central office cable pair provided

[8] Cross-wire at TS-A and TS-B (slide 3) from PBX circuit TMS leads to output TMS leads to RSEU per FIG. 3 and TABLE A [NOTE 2]

AND

[9] Is the terminal provided prewired or wall-mounted

Wall-mounted

[10] Extend RSEU power cord (48V) using JKT wire and one 242A-type jack (insulate well) to wall-mounted terminal, R25, block B3 (AP8-GRD) and terminal R10, block A4 (TR-BAT) [NOTE 3]

Prewired

[11] Extend RSEU power cord (48V) using inside wire and one 242A-type jack (insulate well) to prewired cable terminal, terminal 25R, block D2 (AP8-GRD) 8T, block D1 (TR-BAT) [NOTE 3]

[12] Test traffic leads for TMS 1A circuit per TABLE B [NOTE 4]

NOTE 2
Fill in cross-wire column in TABLE A with terminal and punching (output TMS leads), then cross-connect TMS leads from PBX to scanner according to local instructions to group output leads requested. A group can be no less than 5 inputs and each group must contain separate circuit inputs (that is, two different circuit inputs cannot be in one group). The department (normally traffic) that controls the TMS 1A central control unit will provide cross-connecting information

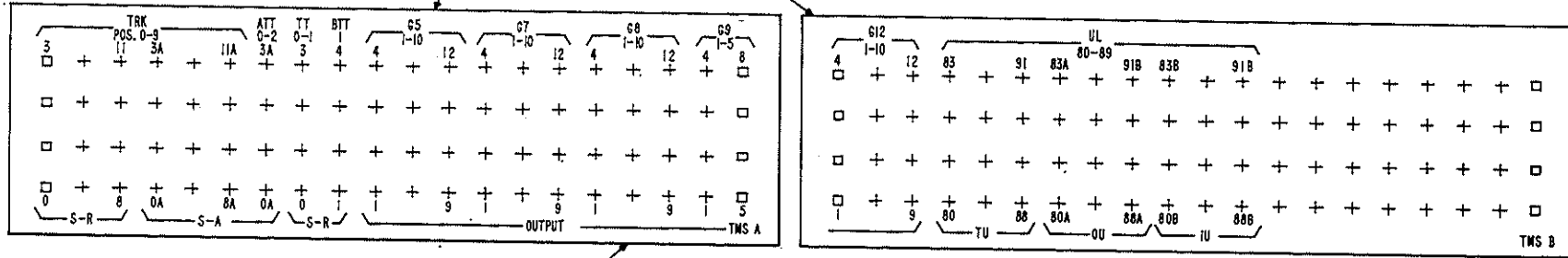
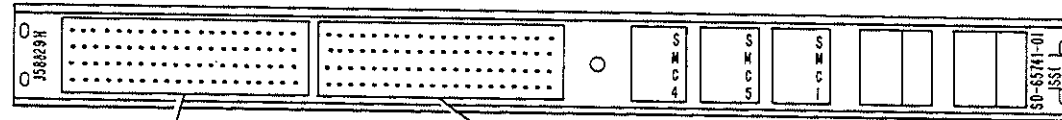
NOTE 3
TR-BAT is fused separately in slide 1 with fuse marked TR

NOTE 4
On a system installation, testing may be delayed until all options and features are installed

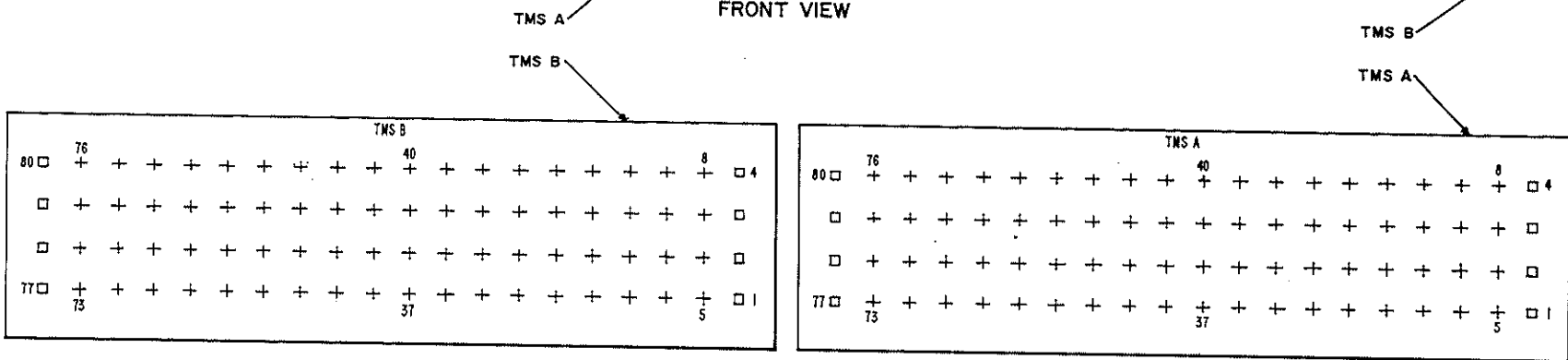
INSTALL AND TEST TRAFFIC MEASUREMENT SYSTEM (TMS 1A) EQUIPMENT (SD-3B200)

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SELECT MAGNET CONTROL RELAY UNIT



FRONT VIEW



REAR VIEW TERMINAL STRIPS

TPA 562535

FIG. 3 - Cross-Connecting Terminals

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TABLE A

FROM PBX CIRCUITS - TMS LEADS (FIG. 1)			CROSS-WIRE AS REQUIRED PER LOCAL INSTRUCTIONS	TO SCANNER			FROM PBX CIRCUITS - TMS LEADS			CROSS-WIRE AS REQUIRED PER LOCAL INSTRUCTIONS	TO SCANNER			
CIRCUIT	TMS LEAD	TERM PCHG		TERM AND PCHG	GRP AND PCHG	OUTPUT TMS LEADS	CIRCUIT	TMS LEAD	TERM PCHG		TERM AND PCHG	GRP AND PCHG	OUTPUT TMS LEADS	
CO TRK 0 ↑ 1 2 3 4 5 6 7 ↓ 8 CO TRK 9	TU-0 * ↑ 1 2 3 4 5 6 7 ↓ 8 TU-9	A-1 ↑ -2 -3 -4 -5 -6 -7 -8 ↓ -9 A10		A-37 ↑ -38 -39 -40 -41 -42 -43 -44 ↓ -45 A-46	G5-1 ↑ 2 -3 -4 -5 -6 -7 -8 ↓ -9 G5-10	TU-101 TU-102 TU-103 TU-104 TU-105 TU-106 TU-107 TU-108 TU-109 TU-110	UL-80 ↑ 81 82 83 84 85 86 87 ↓ 88 UL-89	TU-80 ↑ 81 82 83 84 85 86 87 ↓ 88 TU-89	B-13 ↑ 14 15 16 17 18 19 20 ↓ 21 B-22		A-61 ↑ 62 63 64 65 66 67 68 ↓ 69 A-70	G8-1 ↑ 2 3 4 5 6 7 8 ↓ 9 G8-10	TU-146 TU-147 TU-148 TU-149 TU-150 TU-151 TU-152 TU-153 TU-154 TU-155	
CO TRK 0 ↑ 1 2 3 4 5 6 7 ↓ 8 CO TRK 9	TUA-0A † ↑ -1A -2A -3A -4A -5A -6A -7A ↓ -8A TUA-9A	A-13 ↑ 14 15 16 17 18 19 20 ↓ 21 A-22		A-49 ↑ -50 -51 -52 -53 -54 -55 -56 ↓ -57 A-58	G7-1 ↑ -2 -3 -4 -5 -6 -7 -8 ↓ -9 G7-10	TU-136 TU-137 TU-138 TU-139 TU-140 TU-141 TU-142 TU-143 TU-144 TU-145	UL-80 ↑ 81 82 83 84 85 86 87 ↓ 88 UL-89	OU-80A ‡ ↑ 81A 82A 83A 84A 85A 86A 87A ↓ 88A OU-89A	B-25 ↑ 26 27 28 29 30 31 32 ↓ 33 B-34		B-1 ↑ 2 3 4 5 6 7 8 ↓ 9 B-10	G12-1 ↑ 2 3 4 5 6 7 8 ↓ 9 G12-10	TU-181 TU-182 TU-183 TU-184 TU-185 TU-186 TU-187 TU-188 TU-189 TU-190	
RDTT 3 RDTT 4 RDTT 8 RDTT 9	Used in place of CO TRK 3,4,8,9	A-4 A-5 A-9 A-10	A-73 ↑ 74 75 ↓ 76 A-77	G9-1 ↑ -2 -3 -4 G9-5	TU-166 TU-167 TU-168 TU-169 TU-170	UL-80 ↑ -81 -82 -83 -84 -85 -86 -87 ↓ -88 UL-89	IU-80B § ↑ 81B 82B 83B 84B 85B 86B 87B ↓ 88B IU-89B	B-37 ↑ 38 39 40 41 42 43 44 ↓ 45 B-46						
ATT 0 ATT 1 ATT 2		TUA-0A TUA-1A TUA-2A	A-25 A-26 A-27											
SDTT 0 SDTT 1		TU-0 TU-1	A-29 A-30											
BTT 1		TU-1	A-33											

* Total time from seizure to release
† Time from seizure to ATND answer

‡ Outgoing seizure
§ Incoming seizure

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TABLE B	
CIRCUIT OR TRUNK	TEST PROCEDURE
Test Links For TMS 1A	DLP-586
Test Registers For TMS 1A	DLP-587
Test Junctors For TMS 1A	DLP-585
Test Atnd Trunks For TMS 1A	DLP-582
Test Busy-Tone Trunk For TMS 1A	DLP-583
Test Central Office Trunks For TMS 1A	DLP-584
Test Ringdown Tie Trunks For TMS 1A	DLP-588
Test Station Dial Transfer Trunks For TMS 1A	DLP-589
Test Universal Line Circuits For TMS 1A	DLP-590

[1] Make test lamp indicator
[FIG. 1] using equipment
listed in TABLE A

[2] Mount test lamp indicator
on a backboard

AND

Page 2

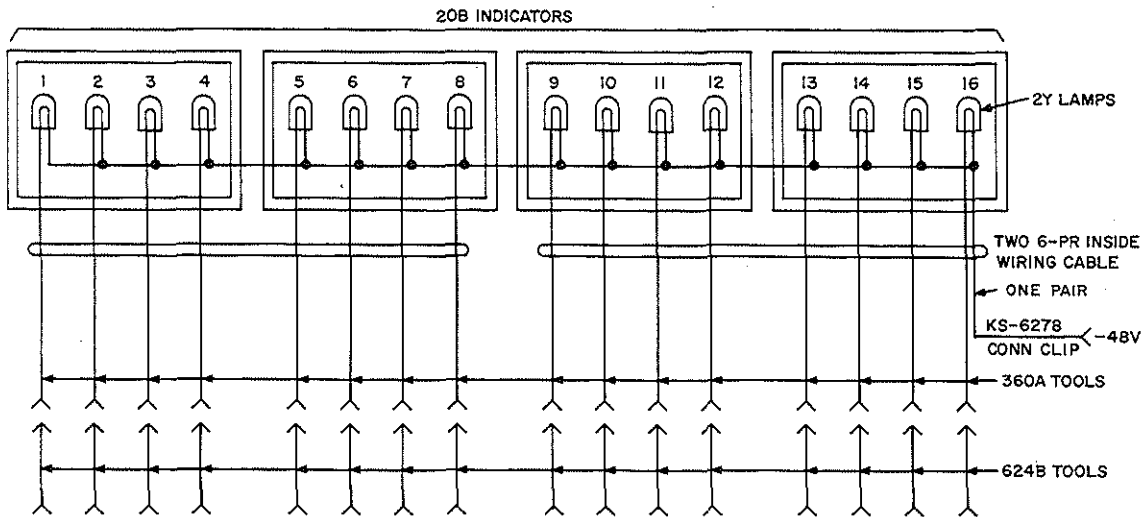


FIG. 1

TABLE A	
EQUIPMENT REQUIRED	QUANTITY
Lamp Indicators 20B-Type	4
Lamps 2Y	16
Connecting Clip KS-6278	1
Tool 360A, B, or C	16
Tool 624B	16
Cable 6 pr, D-type inside wiring	12 ft (2 pieces, 6 ft long)

BUILD TEST ADAPTER AND LAMP INDICATOR TO TEST TRAFFIC MEASUREMENT (TMS 1A) FEATURE

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[3] Make test adapter [FIG. 2] for extending terminals of J58829A, L57 cable connectors 3 and 4 using equipment listed in TABLE B

[4] Mount 251C terminal strip on a backboard

Test equipment prepared

AND

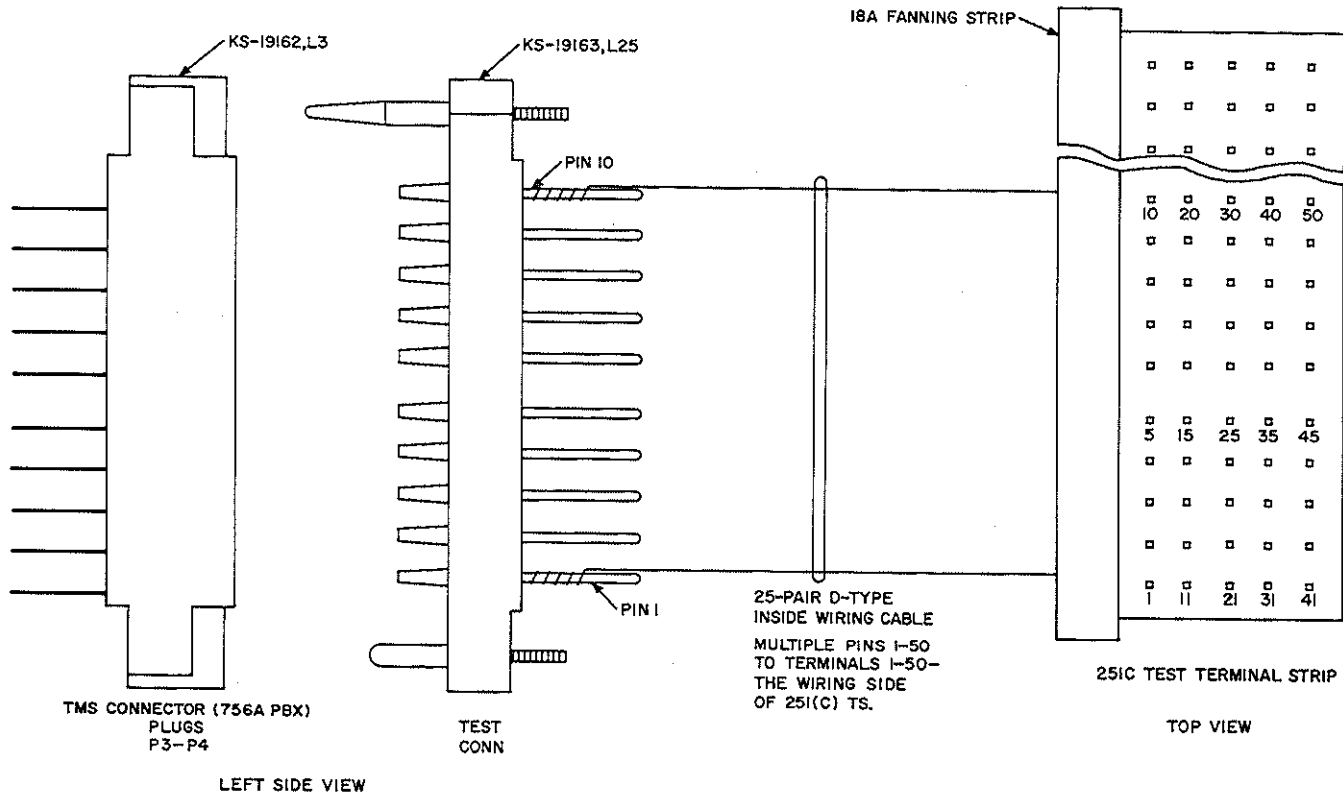


TABLE B	
EQUIPMENT REQUIRED	QUANTITY
Terminal Strip 251C [NOTE 1]	1
Connector KS-19163, L25	1
Fanning Strip 18A	1
Cable, 25-pr, D-inside wiring	10 ft

NOTE 1
251C TS terminal numbers are the same as connector KS-19163, L25 pin number

FIG. 2

BUILD TEST ADAPTER AND LAMP INDICATOR TO TEST TRAFFIC MEASUREMENT (TMS 1A) FEATURE

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[1] Mate KS-19163, L25 test plug with connector 4 of J58829A, L57 cable [NOTE 1]

[2] Connect KS-6278 connecting clip of lamp indicator to -48 battery on front of slide 2

[3] Connect test indicator lamp leads to test terminal strip per TABLE A

[4] Cross-wire at TS-TMS A (slide 3V) per TABLE B for this test

[5] Turn make-busy and busy-display (MB-BD) PWR key ON

[6] See CAUTION. Pull out ATND TRK 0 MB key

[7] Push in ATND TRK 0 MB key

PWR -96 and -48 lamps on

ATND TRK 0 MB lamp on, test lamps 1 and 4 on

ATND TRK 0 MB lamp out, test lamps 1 and 4 out

AND

Test OK

No

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CAUTION
ATND TRK lamp should be out before operating ATND TRK MB key

NOTE 2

If (MB-BD) is not provided, the attendant trunk can be made busy as follows: ascertain that no select magnet is operated, then insulate 11M of relay B and block relay B operated at the circuit under test (located in cabinet 2, slide 5).

NOTE 1

For simplicity, this test is arranged to employ a test adapter and lamp indicator to be built locally as illustrated in DLP-581. If this test equipment is not available, proceed from step 1 to step 4. Instead of test lamp indications in steps 6 and 7, the presence or absence of ground, respectively, may be verified with a test receiver or voltohmmeter directly on P4 connector pins 21 and 24 of J58829A, L57 cable. Continue this method of testing in steps 8 through 10 using TABLE A to determine P4 connector pin numbers associated with attendant trunk being tested (punching numbers of the TEST TERMINAL shown in TABLE A correspond to P4 connector pin numbers).

TEST ATTENDANT TRUNKS (TRAFFIC USAGE) FOR TMS 1A

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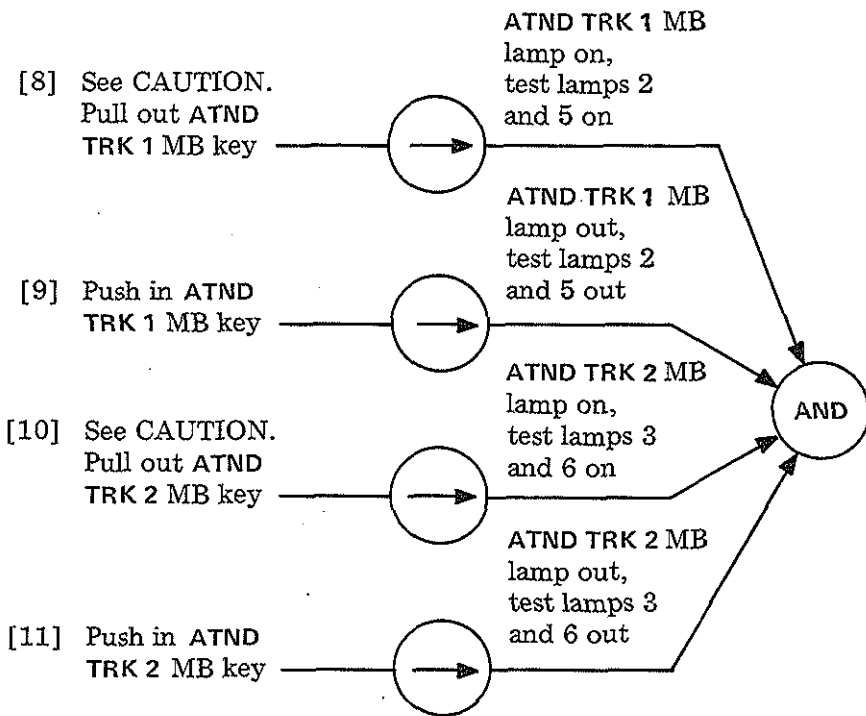


TABLE B			
CROSS-WIRE			
FROM TMS A TERMINAL		TO TMS A TERMINAL	
PCHG	DESIGNATION	PCHG	DESIGNATION
25	S-A 0A (ATT 0)	73	OUTPUT G9-1
26	S-A 1A (ATT 1)	74	OUTPUT G9-2
27	S-A 2A (ATT 2)	75	OUTPUT G9-3

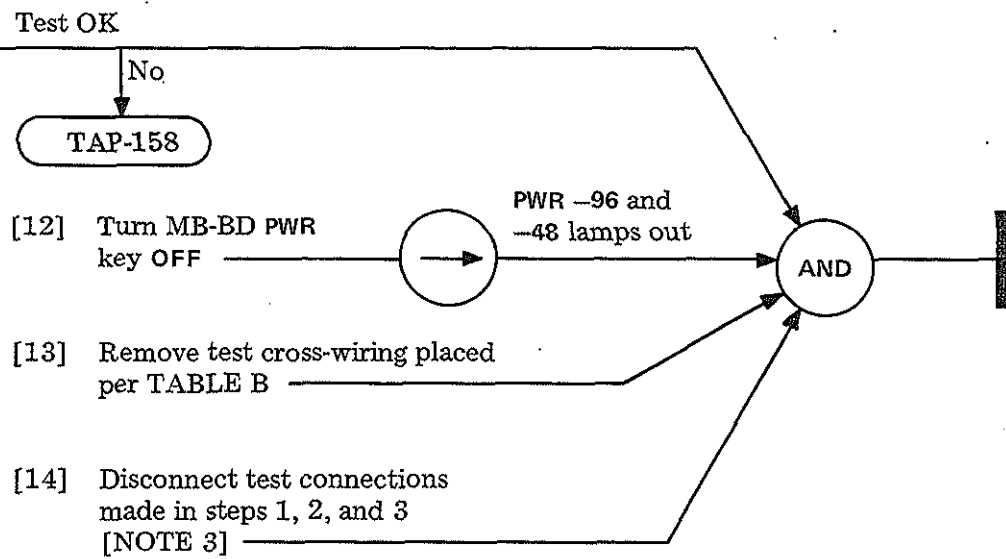


TABLE A		
CONNECT		
FROM	TO TEST TERMINAL	
LAMP NO.	PCHG	LEAD
1	21	TU (AT0)
2	22	TU (AT1)
3	23	TU (AT2)
4	24	TUA-1 (G9)
5	25	TUA-2 (G9)
6	26	TUA-3 (G9)

CAUTION
 ATND TRK lamp should be out before operating ATND TRK MB key

NOTE 3
 Do not remove test equipment until the test setup for the next test has been determined

[1] Connect test indicator lamp lead for lamp 1 to TMS A (slide 3V), terminal 33 (BTT-TU 1) [NOTE 1]

[2] Connect KS-6278 connecting clip of lamp indicator to -48V battery on front of slide 2

[3] Turn make-busy and busy display (MB-BD) PWR key ON [NOTE 2]

[4] See CAUTION. Pull out BT MB key

[5] Push in BT MB key

PWR -96 and -48 lamps on

BT MB lamp on, test lamp 1 out

BT MB lamp out, test lamp 1 out



Test OK

No

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[6] Turn MB-BD PWR key OFF

PWR -96 and -48 lamps out

[7] Disconnect test connections made in steps 1 and 2 [NOTE 3]

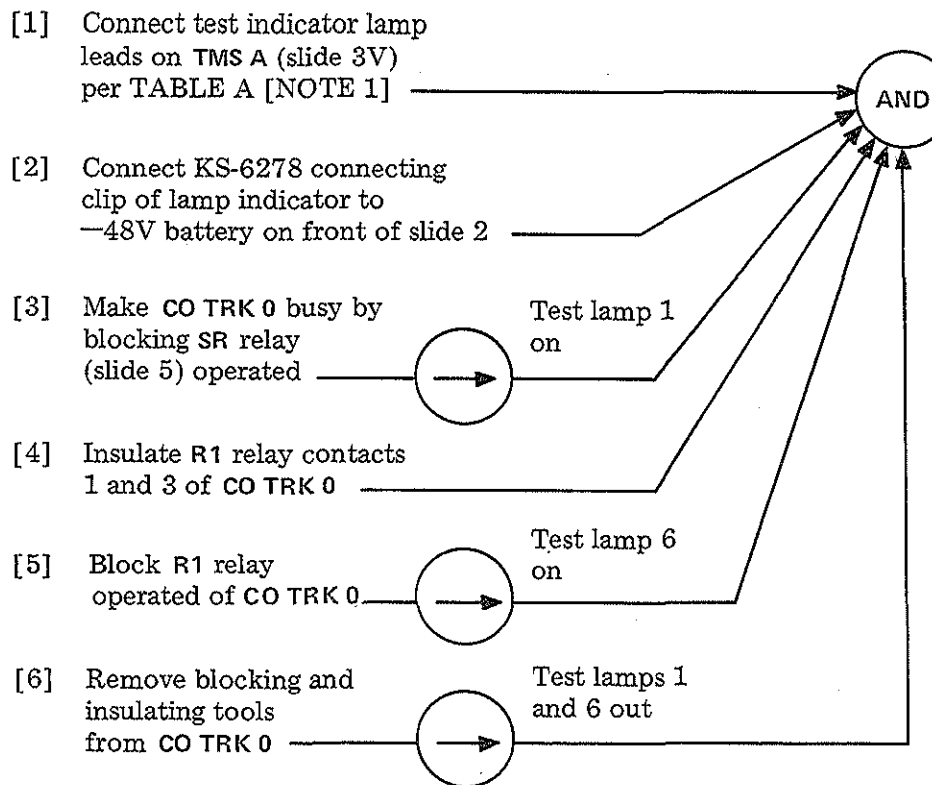


NOTE 1
For simplicity, this test is arranged to employ a test adapter and lamp indicator to be built locally as illustrated in DLP-581. If this test equipment is not available, proceed from step 1 to step 3. Instead of test lamp indications in steps 4 and 5, the presence or absence of ground, respectively, may be verified with a test receiver or voltohmmeter directly on TMS A terminal 33.

CAUTION
BT MB lamp should be out before operating BT MB key

NOTE 3
Do not remove test equipment until the test setup for the next test has been determined.

NOTE 2
If (MB-BD) is not provided, the trunk can be made busy as follows: ascertain that no select magnet is operated, then block the A relay operated in the busy tone circuit located in cabinet 2, slide 4.



[7] Repeat steps 3 through 6 for CO TRK 1 through 4 (slide 5)

Lamp indications per TABLE B

TABLE A		
CONNECT		
FROM	TO TS-TMS A	
LAMP NO.	PCHG	DESIGNATION
1	1	S-R 0
2	2	S-R 1
3	3	S-R 2
4	4	S-R 3
5	5	S-R 4
6	13	S-A 0A
7	14	S-A 1A
8	15	S-A 2A
9	16	S-A 3A
10	17	S-A 4A

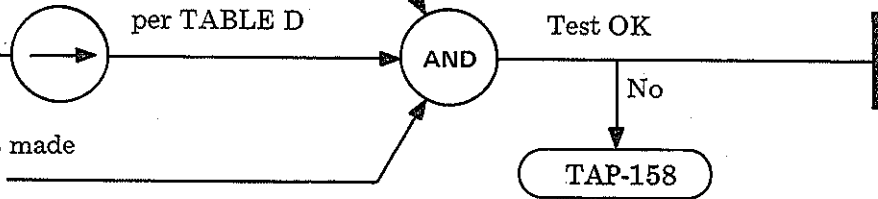
TABLE B				
CO TRK	STEP	LAMP NO.		TS-TMS A
		ON	OUT	PCHG
1	3	2		2
	5	7		14
	6		2, 7	2, 14
2	3	3		3
	5	8		15
	6		3, 8	3, 15
3	3	4		4
	5	9		16
	6		4, 9	4, 16
4	3	5		5
	5	10		17
	6		5, 10	5, 17

NOTE 1
 For simplicity, this test is arranged to employ a test adapter and lamp indicator to be built locally as illustrated in DLP-581. If this test equipment is not available, proceed from step 1 to step 3. Instead of test lamp indications in steps 3, 5, and 6, the presence or absence of ground may be verified with a test receiver or voltohmmeter directly on TMS A punchings 1 and 13 (see TABLE A). Continue this method of testing in steps 7 and 9 using TABLE B and D to determine TS-TMS A punchings associated with CO trunk being tested.

[8] Move test indicator lamp leads on TS-TMS A per TABLE C [NOTE 1]

[9] Repeat steps 3 through 6 for CO TRK 5 through 9 (slide 5)

Test lamp indications per TABLE D



[10] Disconnect test connections made in steps 2 and 8 [NOTE 2]

NOTE 2
Do not remove test equipment until the test setup for the next test has been determined

TABLE C		
CONNECT		
FROM	TO TS-TMS A	
LAMP NO.	PCHG	DESIGNATION
1	6	S-R 5
2	7	S-R 6
3	8	S-R 7
4	9	S-R 8
5	10	S-R 9
6	18	S-A 5A
7	19	S-A 6A
8	20	S-A 7A
9	21	S-A 8A
10	22	S-A 9A

TABLE D				
CO TRK	STEP	LAMP NO.		TS-TMS A
		ON	OUT	PCHG
5	3	1		6
	5	6		18
	6		1, 6	6, 18
6	3	2		7
	5	7		19
	6		2, 7	7, 19
7	3	3		8
	5	8		20
	6		3, 8	8, 20
8	3	4		9
	5	9		21
	6		4, 9	9, 21
9	3	5		10
	5	10		22
	6		5, 10	10, 22

[1] Mate KS-19163, L25 test plug with connector 4 of J58829A, L57 cable [NOTE 1]

[2] Connect KS-6278 connecting clip of lamp indicator to -48V battery on front of slide 2

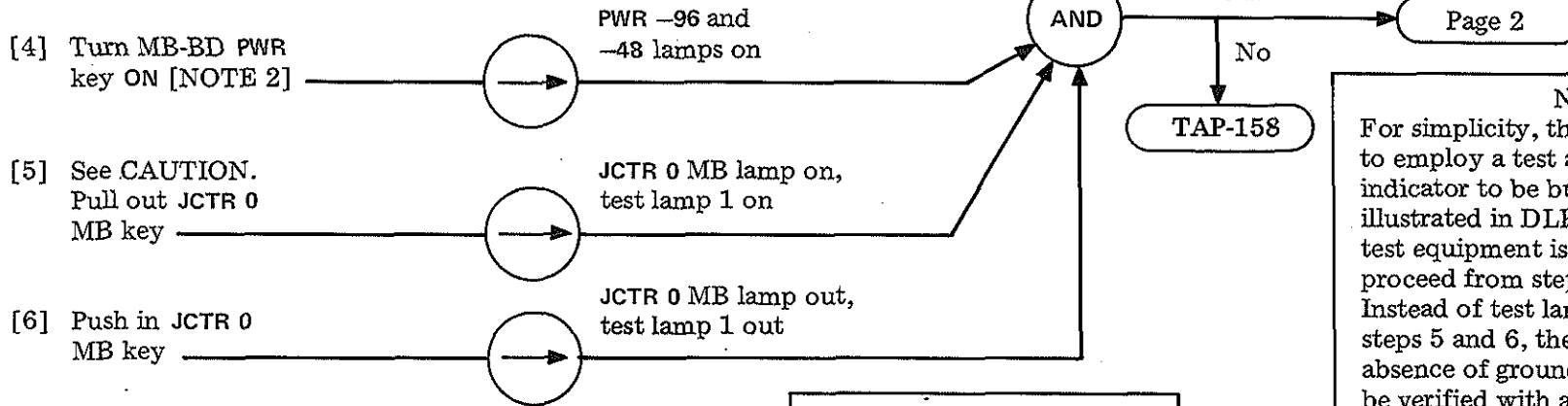
[3] Connect test indicator lamp leads to test terminal strip per TABLE A

[4] Turn MB-BD PWR key ON [NOTE 2]

[5] See CAUTION. Pull out JCTR 0 MB key

[6] Push in JCTR 0 MB key

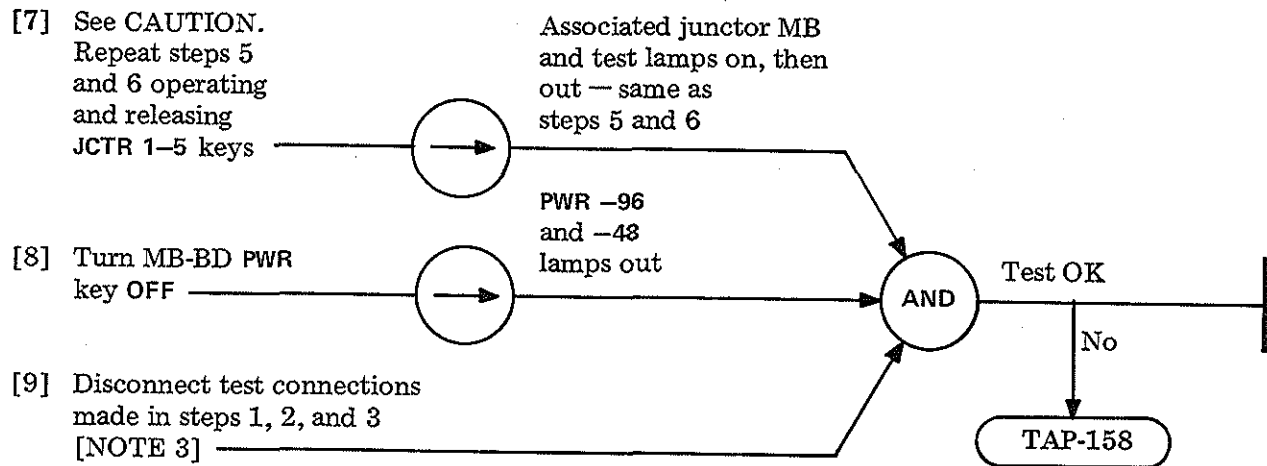
TABLE A		
CONNECT		
FROM	TO TEST TERMINAL	
LAMP NO.	PCHG	LEAD
1	41	TU (J0)
2	42	TU (J1)
3	43	TU (J2)
4	44	TU (J3)
5	45	TU (J4)
6	46	TU (J5)



CAUTION
JCTR lamp should be out before operating JCTR MB key

NOTE 2
 If no (MB-BD) equipment is provided, trunk can be made busy as follows: ascertain that no select magnet is operated and block the D relay operated in the junctor circuit under test (slides 3 or 4).

NOTE 1
 For simplicity, this test is arranged to employ a test adapter and lamp indicator to be built locally as illustrated in DLP-581. If this test equipment is not available, proceed from step 1 to step 4. Instead of test lamp indications in steps 5 and 6, the presence or absence of ground, respectively, may be verified with a test receiver or voltohmmeter directly on P4 connector pin 41 of J58829A, L57 cable. Continue this method of testing in step 7 using TABLE A to determine P4 connector pin numbers associated with the junctor being tested (punching numbers of the TEST TERMINAL shown in TABLE A correspond to P4 connector pin numbers).



NOTE 3
Do not remove test equipment until the test setup for the next test has been determined

[1] Mate KS-19163, L25 test plug with connector 3 of J58829A, L57 cable [NOTE 1]

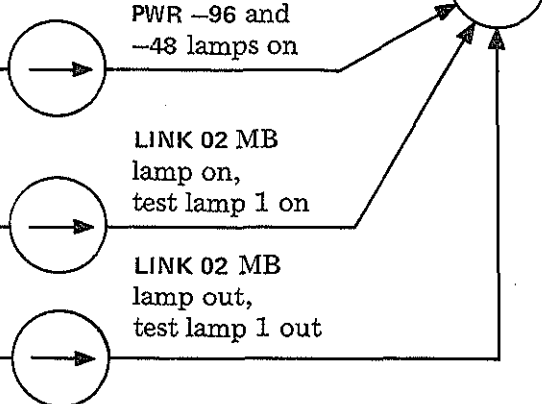
[2] Connect KS-6278 connecting clip of lamp indicator to -48 battery on front of slide 2

[3] Connect test indicator lamp leads to test terminal strip per TABLE A

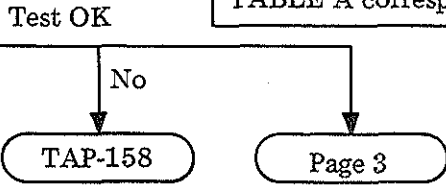
[4] Turn make-busy and busy-display (MB-BD) PWR key ON [NOTE 2]

[5] See CAUTION. Pull out LINK 02 MB key

[6] Push in LINK 02 MB key



NOTE 1
 For simplicity, this test is arranged to employ a test adapter and lamp indicator to be built locally as illustrated in DLP-581. If this test equipment is not available, proceed from step 1 to step 4. Instead of test lamp indications in steps 5 and 6, the presence or absence of ground, respectively, may be verified with a test receiver or voltohmmeter directly on P3 connector pin 16 of J58829A, L57 cable. Continue this method of testing in step 7 using TABLE A to determine P3 connector pin numbers associated with the link being tested (punching numbers of the TEST TERMINAL shown in TABLE A correspond to P3 connector pin numbers).



CAUTION
 LINK lamps should be out before operating LINK MB keys

NOTE 2
 If (MB-BD) is not provided, link can be made busy by grounding the associated S lead. TABLE B provides S lead location in marker circuit. TABLE C lists equipment required.

TABLE A					
CONNECT					
FROM		TO TEST TERMINAL		TO TEST TERMINAL	
LAMP NO.	PCHG	LEAD	LAMP NO.	PCHG	LEAD
1	16	TU (L02)	9	24	TU (L12)
2	17	TU (L03)	10	25	TU (L13)
3	18	TU (L04)	11	26	TU (L14)
4	19	TU (L05)	12	27	TU (L15)
5	20	TU (L06)	13	28	TU (L16)
6	21	TU (L07)	14	29	TU (L17)
7	22	TU (L08)	15	30	TU (L18)
8	23	TU (L09)	16	31	TU (L19)

TABLE B		
LINK	ASSOCIATED S LEAD	LTCA OR LTCS FIXED CONTACT
02	S02	9
12	S12	17
03	S03	10
13	S13	18
04	S04	11
14	S14	19
05	S05	12
15	S15	20
06	S06	13
16	S16	21
07	S07	14
17	S17	22
08	S08	15
18	S18	23
09	S09	16
19	S19	24

TABLE C	
EQUIPMENT REQUIRED	QUANTITY
651 Relay Contact Connector Holder	1
639A Relay Contact Connector	1
Tool 360A, B, or C	1
Connecting Clip KS-6278	1
Cord 1W13A	1

[7] Repeat steps 5 and 6 operating and releasing LINK 03-09 and LINK 12-19 MB keys

Associated LINK MB and test lamps on then out -- same as steps 5 and 6

[8] Turn MB-BD PWR key OFF

PWR -96 and -48 lamps out

[9] Disconnect test connections made in steps 1, 2, and 3 [NOTE 3]

AND

Test OK

No

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NOTE 3

Do not remove test equipment until the test setup for the next test has been determined

[1] Mate KS-19163, L25 test plug with connector 3 of J58829A, L57 cable [NOTE 1]

[2] Connect KS-6278 connecting clip of lamp indicator to -48V battery on front of slide 2

[3] Connect test indicator lamp leads to test terminal strip per TABLE A

[4] Operate test handset to MON and connect to test line 39 (front of slide 2)

[5] Turn make-busy and busy-display (MB-BD) PWR key ON [NOTE 2]

[6] See CAUTION. Pull out REG 1 MB key

PWR -96 and -48 lamps on

REG 1 MB lamp on

NOTE 1
For simplicity, this test is arranged to employ a test adapter and lamp indicator to be built locally as illustrated in DLP-581. If this test equipment is not available, proceed from step 1 to step 4. Instead of test lamp indications in steps 7 and 8, the presence or absence of ground, respectively, may be verified with a test receiver or voltohmmeter directly on P3 connector pin 26 of J58829A, L57 cable. Continue this method of testing in step 10 using TABLE A to determine P3 connector pin numbers associated with the register being tested (punching numbers of the TEST TERMINAL shown in TABLE A correspond to P3 connector pin numbers).

AND

[7] Operate handset to TALK

[8] Operate handset to MON

[9] Push in REG 1 MB key

PBX dial tone heard, test lamp 1 on

Test lamp 1 out

REG 1 MB lamp out

Test OK

No

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TABLE A

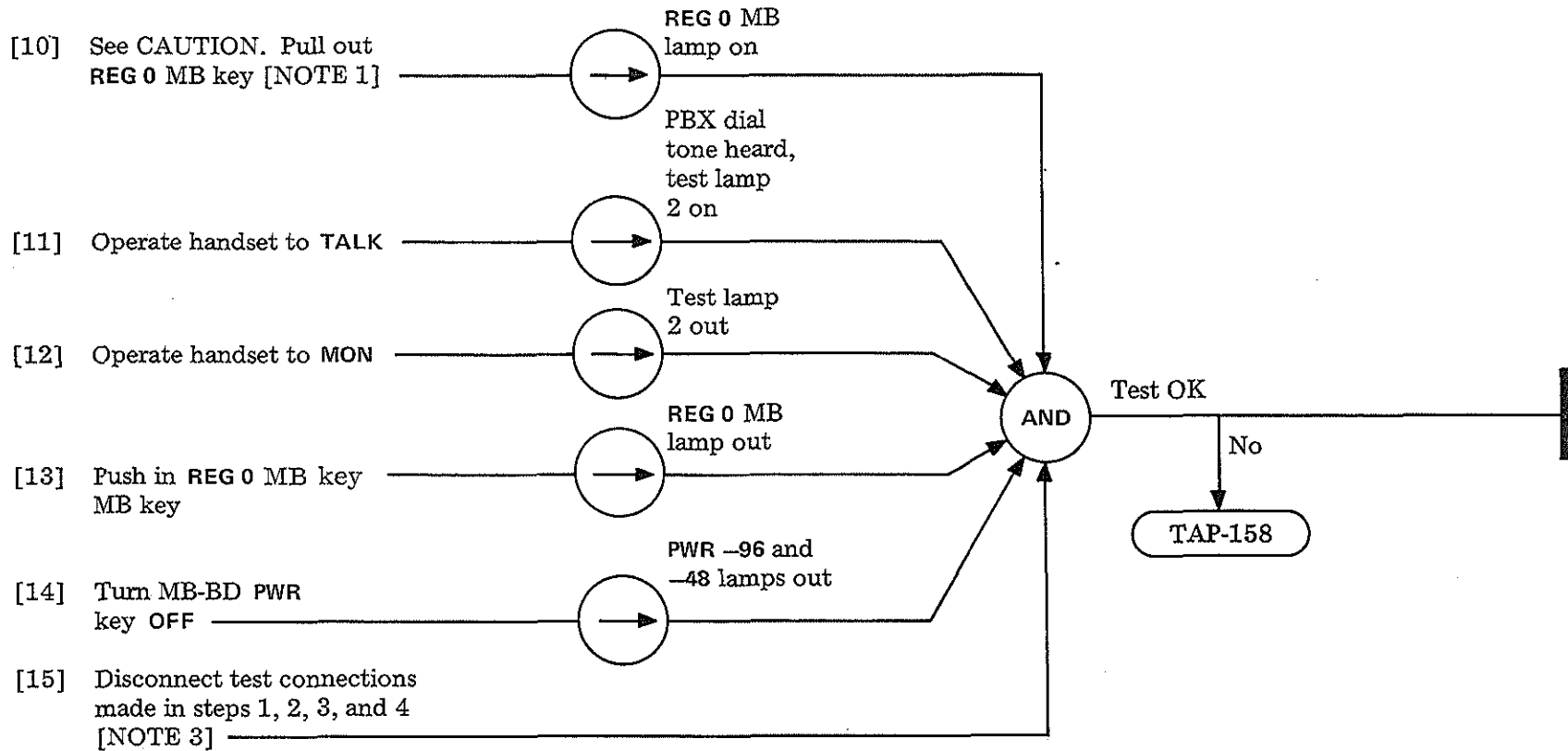
CONNECT

FROM	TO TEST TERMINAL	
LAMP NO.	PCHG	LEAD
1	26	TU (R0)
2	27	TU (R1)

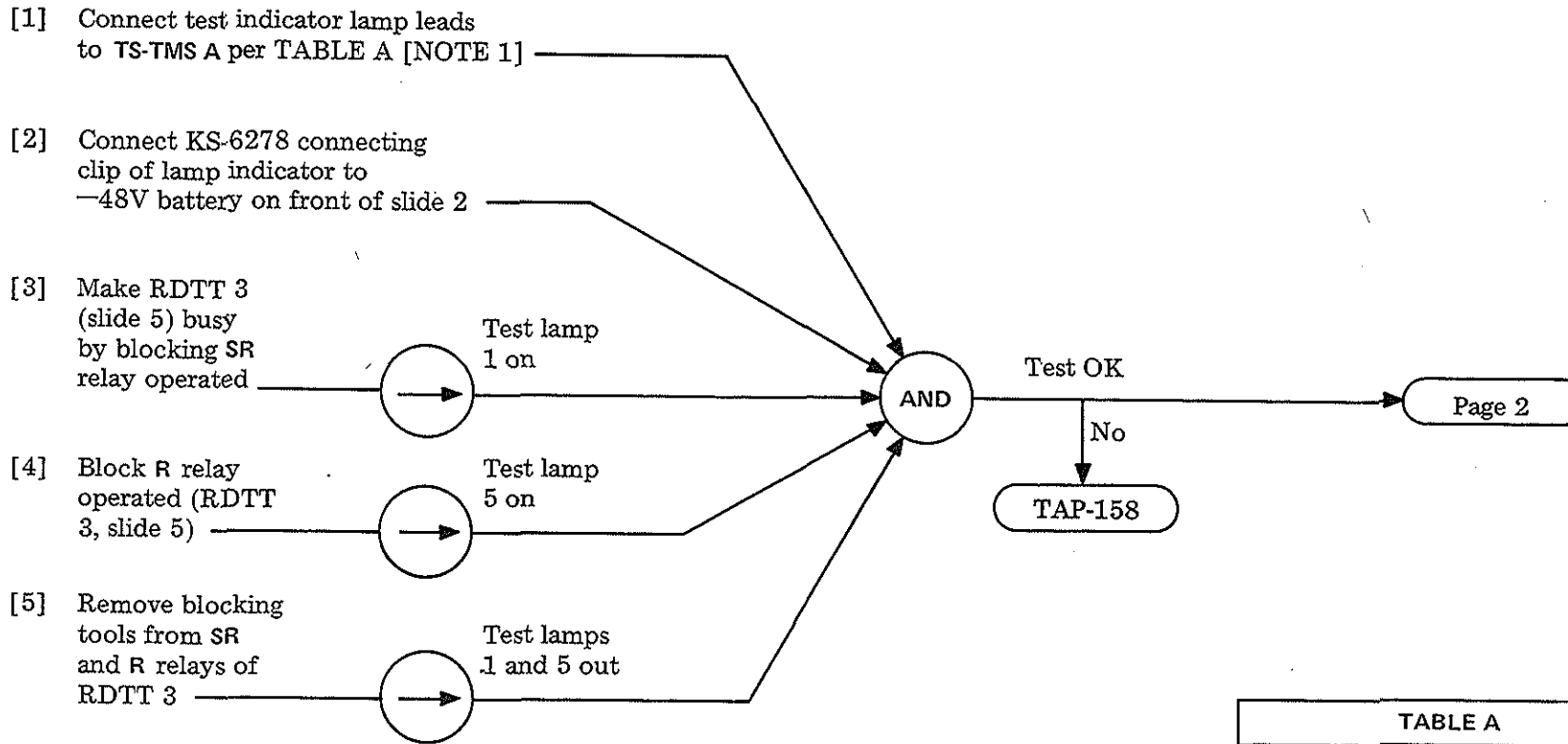
NOTE 2

If MB-BD display is not provided, register can be made busy by blocking RT relay operated. [see CAUTION]

CAUTION
Do not make register busy if it is in use



NOTE 3
Do not remove test equipment until the test setup for the next test has been determined

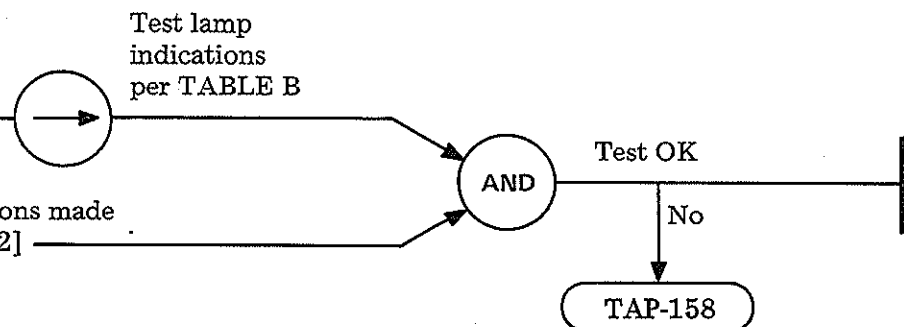


NOTE 1

For simplicity, this test is arranged to employ a test adapter and lamp indicator to be built locally as illustrated in DLP-581. If this test equipment is not available, proceed from step 1 to step 3. Instead of test lamp indications in steps 3, 4, and 5, the presence or absence of ground may be verified with a test receiver or voltohmmeter directly on TS TMS A punchings 4 and 16 (See TABLE A). Continue this method of testing in step 6 using TABLE B to determine TS TMS A punchings associated with ringdown tie trunk being tested

TABLE A		
CONNECT		
FROM	TO TS-TMS A	
LAMP NO.	PCHG	DESIGNATION
1	4	S-R 3
2	5	S-R 4
3	9	S-R 8
4	10	S-R 9
5	16	S-A 3A
6	17	S-A 4A
7	21	S-A 8A
8	22	S-A 9A

[6] Repeat steps 2 through 4 for RDTT 4, 8, and 9 mounted in place of CO TRK 4, 8, and 9 (slide 5)



[7] Disconnect test connections made in steps 1 and 2 [NOTE 2]

NOTE 2
Do not remove test equipment until the test setup for the next test has been determined

TABLE B				
RDTT	STEP	LAMP NO.		TS-TMS A
		ON	OUT	PCHG
3	3	1		4
	4	5		16
	5		1, 5	4, 16
4	3	2		5
	4	6		17
	5		2, 6	5, 17
8	3	3		9
	4	7		21
	5		3, 7	9, 21
9	3	4		10
	4	8		22
	5		4, 8	10, 22

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[1] Connect test indicator lamp leads to TS-TMS A per TABLE A [NOTE 1]

[2] Connect KS-6278 connecting clip of lamp indication to -48V battery on front of slide 2

[3] Make station dial transfer (SDT 0) trunk 0 (3rd cabinet) busy by blocking HM and BA relays operated

[4] Remove blocking tools from SDT 0

Test lamp 1 on

Test lamp 1 out

AND

Test OK

No

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[5] Make SDT 1 busy by blocking HM and BA relays operated

[6] Remove blocking tools from SDT 1 (cabinet 3)

[7] Disconnect test connections made in steps 1 and 2 [NOTE 2]

Test lamp 2 on

Test lamp 2 out

AND

Test OK

No

TAP-158

TABLE A		
CONNECT		
FROM	TO TS-TMS A	
LAMP NO.	PCHG	DESIGNATION
1	29	S-R 0 (TT)
2	30	S-R 1 (TT)

NOTE 1

For simplicity, this test is arranged to employ a test adapter and lamp indicator to be built locally as illustrated in DLP-581. If this test equipment is not available, proceed from step 1 to step 3. Instead of test lamp indications in steps 3 and 4, the presence or absence of ground may be verified with a test receiver or volt-ohm-meter directly on TMS A punching 29 (see TABLE A). Continue this method of testing in steps 5 and 6 using TABLE A to determine TS TMS A punching associated with the station dial transfer trunk being tested

NOTE 2

Do not remove test equipment until the test setup for the next test has been determined

[1] Connect test indicator lamp leads to TS-TMS B per TABLE A [NOTE 1]

[2] Connect KS-6278 connecting clip of lamp indicator to -48V battery on front of slide 2

[3] Connect test handset to test line STA 39 (slide 2, front)

[4] Operate handset to TALK

[5] Dial access code 80 of idle universal line (UL)

[6] Operate handset to MON

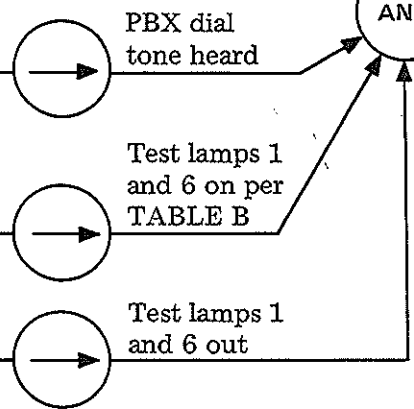
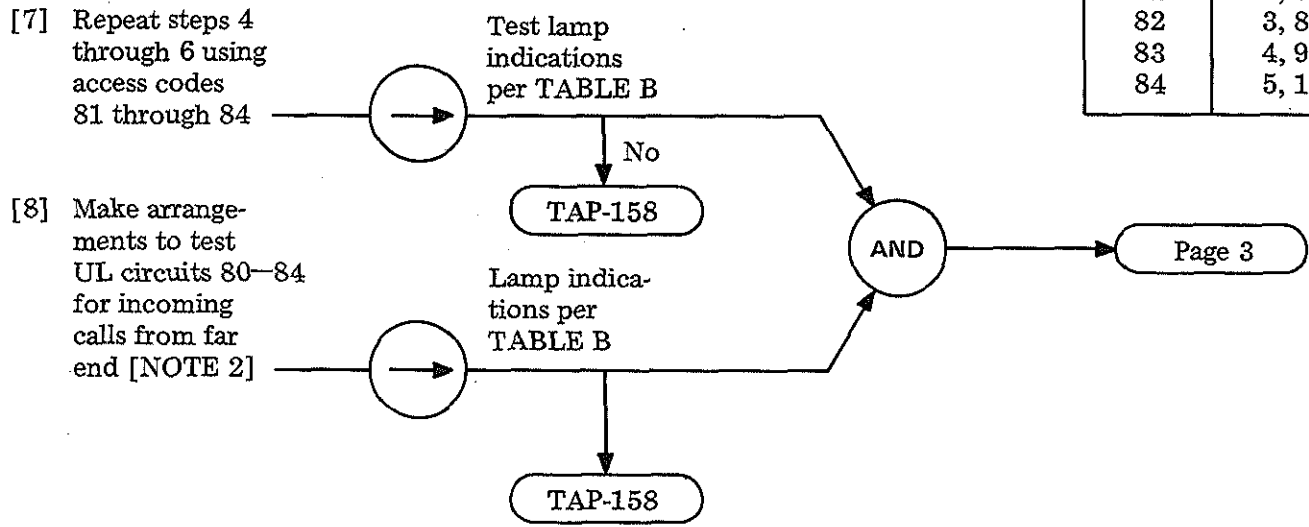


TABLE A		
CONNECT		
FROM	TO TS-TMS B ON SLIDE 3	
LAMP NO.	PCHG	DESIGNATION
1	13	TU 80
2	14	TU 81
3	15	TU 82
4	16	TU 83
5	17	TU 84
6	25	OU 80A
7	26	OU 81A
8	27	OU 82A
9	28	OU 83A
10	29	OU 84A
11	37	IU 80B
12	38	IU 81B
13	39	IU 82B
14	40	IU 83B
15	41	IU 84B

NOTE 1
 For simplicity, this test is arranged to employ a test adapter and lamp indicator to be built locally as illustrated in DLP-581. If this test equipment is not available, proceed from step 1 to step 3. Instead of test lamp indications in steps 5 and 6, the presence or absence of ground may be verified with a test receiver or voltohmmeter directly on TS-TMS B punchings 13 and 26 (see TABLE A). Continue this method of testing in steps 7 and 8 using TABLE A and B to determine punchings associated with circuit being tested. TS-TMS B test punching information for steps 11 through 14 is shown in TABLES C and D.

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TABLE B		
CODE DIALED	LAMPS LIGHTED	
	OUTGOING	INCOMING
80	1, 6	1, 11
81	2, 7	2, 12
82	3, 8	3, 13
83	4, 9	4, 14
84	5, 10	5, 15



NOTE 2
 Incoming calls from tie trunks must be originated from a far end source (attendant, PBX station, etc)

[9] Disconnect test indicator lamp leads and reconnect leads per TABLE C [NOTE 1]

[10] Operate handset to TALK

[11] Dial access code 85 of idle UL circuit

[12] Operate handset to MON

TABLE C		
CONNECT		
FROM	TO TS-TMS B ON SLIDE 3	
LAMP NO.	PCHG	DESIGNATION
1	18	TU 85
2	19	TU 86
3	20	TU 87
4	21	TU 88
5	22	TU 89
6	30	OU 85
7	31	OU 86
8	32	OU 87
9	33	OU 88
10	34	OU 89
11	42	IU 85
12	43	IU 86
13	44	IU 87
14	45	IU 88
15	46	IU 89

TABLE D		
CODE DIALED	LAMPS LIGHTED	
	OUTGOING	INCOMING
85	1, 6	1, 11
86	2, 7	2, 12
87	3, 8	3, 13
88	4, 9	4, 14
89	5, 10	5, 15

NOTE 3
Do not remove test equipment until the test setup for the next test has been determined

Test OK

No

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[13] Repeat steps 10 through 12 using access codes 86 through 89

Test lamp indications per TABLE D

No

TAP-158

[14] Make arrangements to test UL circuits 85-89 for incoming calls from far end [NOTE 2]

Test lamp indications per TABLE D

No

TAP-158

[15] Disconnect test handset from test line STA 39

[16] Disconnect test connections made in steps 2 and 9 [NOTE 3]

TEST UNIVERSAL LINE CIRCUITS (TRAFFIC USAGE) FOR TMS 1A

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TABLE A	
1-	W1AF test cord, 8 feet 6 in.
2-	360A tools
1-	KS-6278 connecting clip
1-	411A tool (test pick)
1-	W1AP test cord, 1 foot long

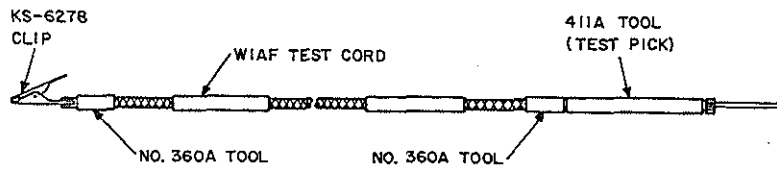
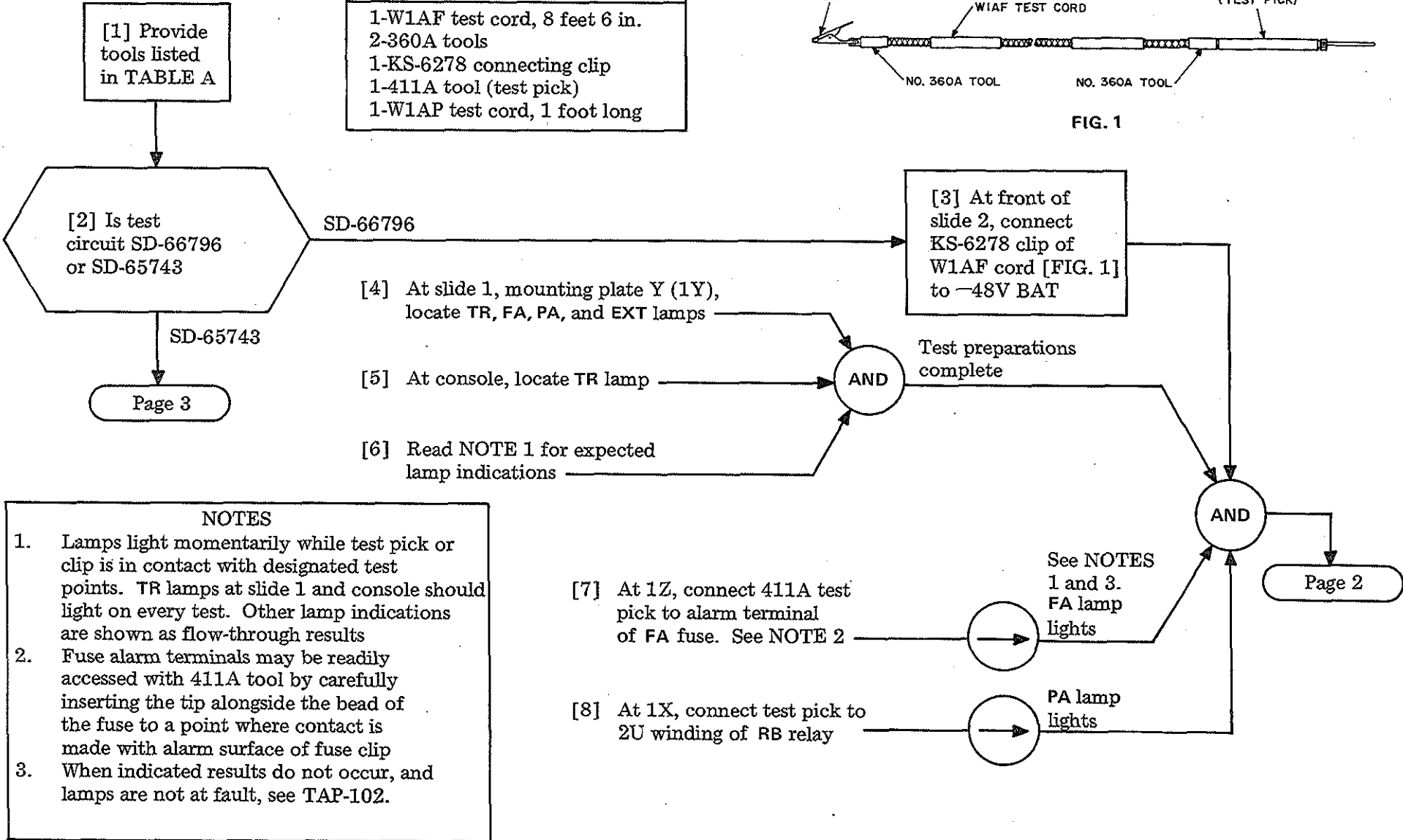


FIG. 1

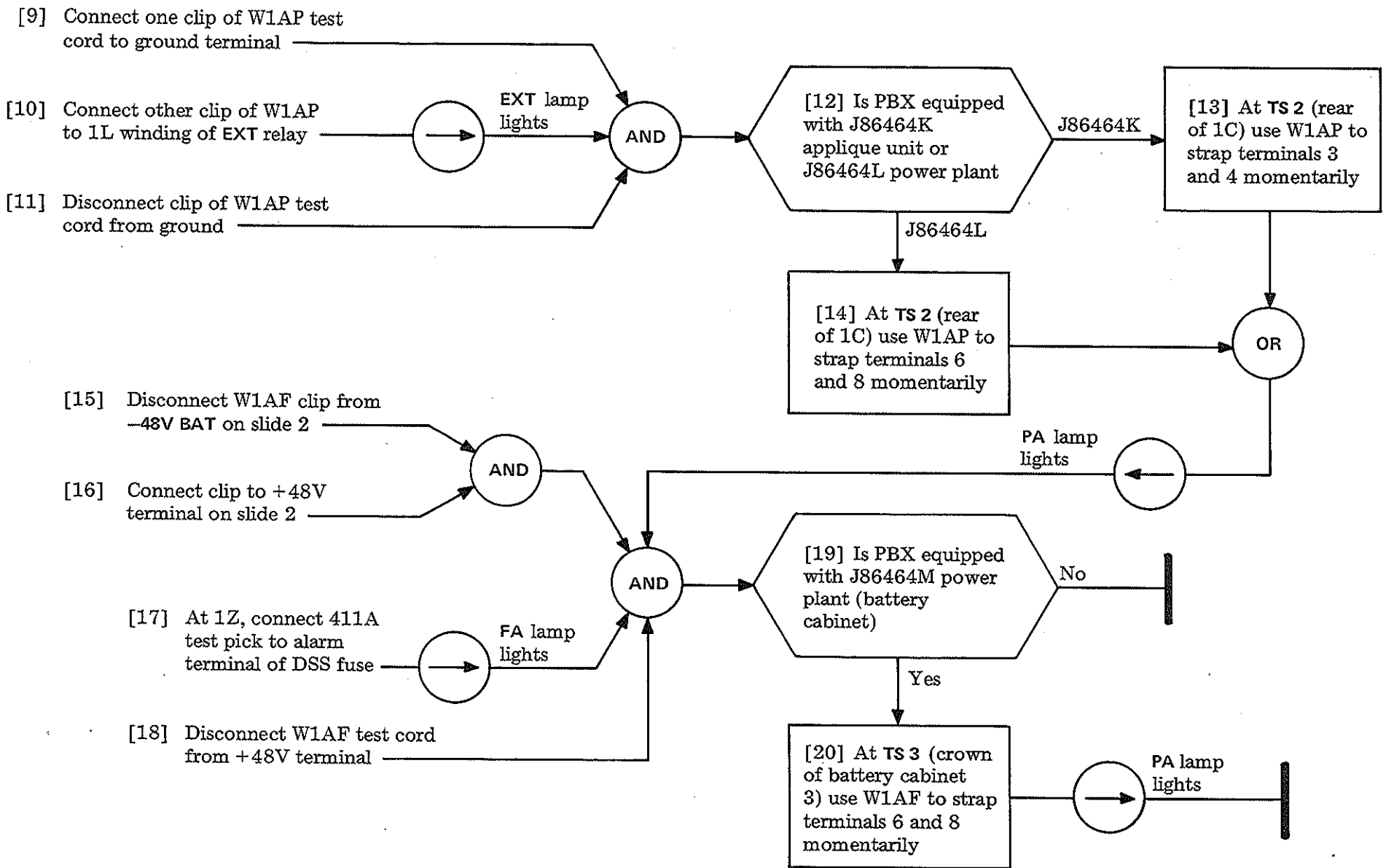


NOTES

- Lamps light momentarily while test pick or clip is in contact with designated test points. TR lamps at slide 1 and console should light on every test. Other lamp indications are shown as flow-through results
- Fuse alarm terminals may be readily accessed with 411A tool by carefully inserting the tip alongside the bead of the fuse to a point where contact is made with alarm surface of fuse clip
- When indicated results do not occur, and lamps are not at fault, see TAP-102.

TEST FUSE ALARMS

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TEST FUSE ALARMS

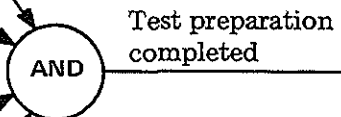
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[21] At front of slide 2, connect
KS-6278 clip of W1AF test cord
[FIG. 1, page 1] to -48V BAT

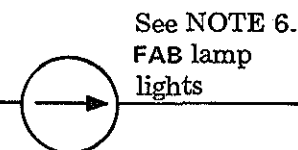
[22] At console, locate TR lamp

[23] At slide 1, locate TR lamp
on mounting plate X (1X), FAB
lamp (1Y), FAA lamp (1Z), PA
lamp (1X), and FA1 lamp (1R)

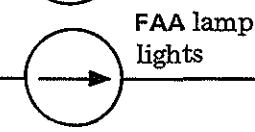
[24] Read NOTE 4 for expected lamp
indications



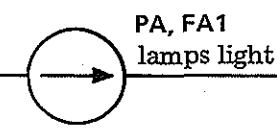
[25] At 1Y, connect 411A test
pick to alarm terminal
of FA fuse. See NOTE 5



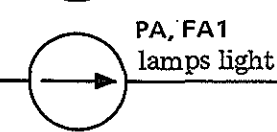
[26] At 1Z, connect test pick to
alarm terminal of CO fuse



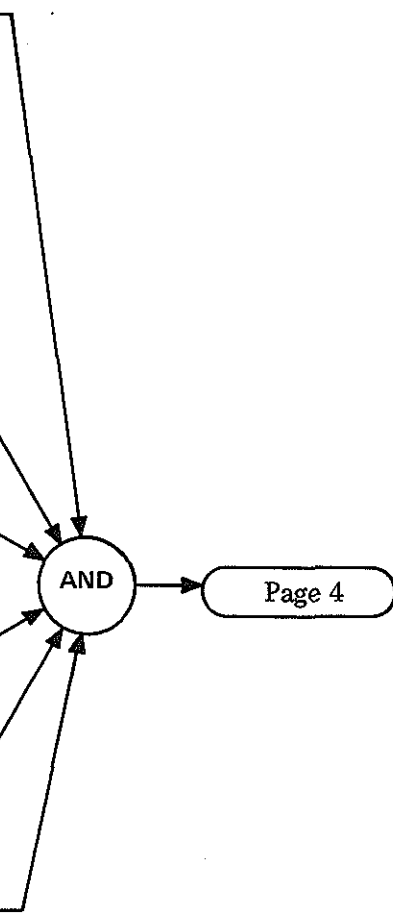
[27] At 1N, connect test pick to
alarm terminal of B fuse



[28] At 1N, connect test pick to
alarm terminal of A fuse

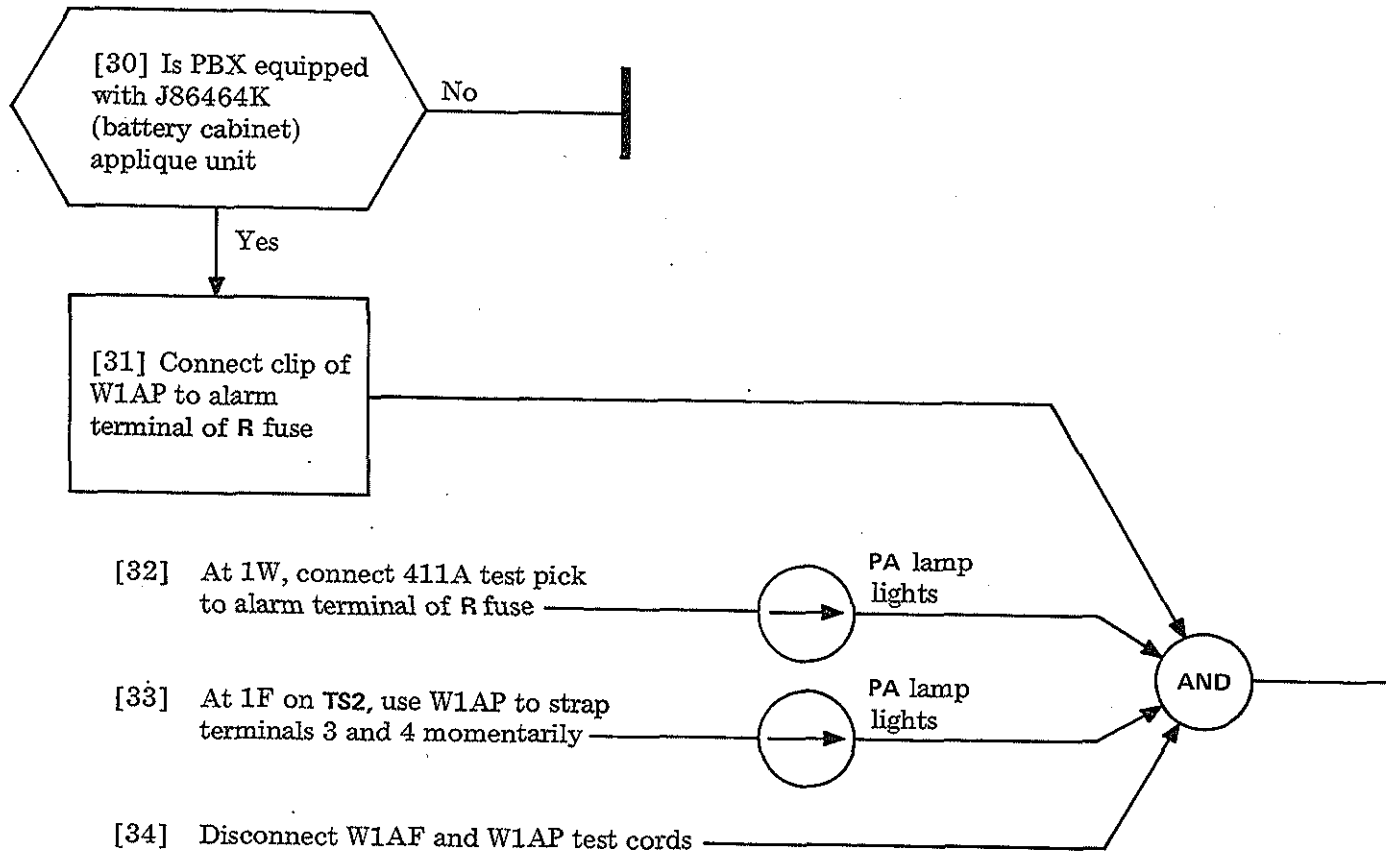


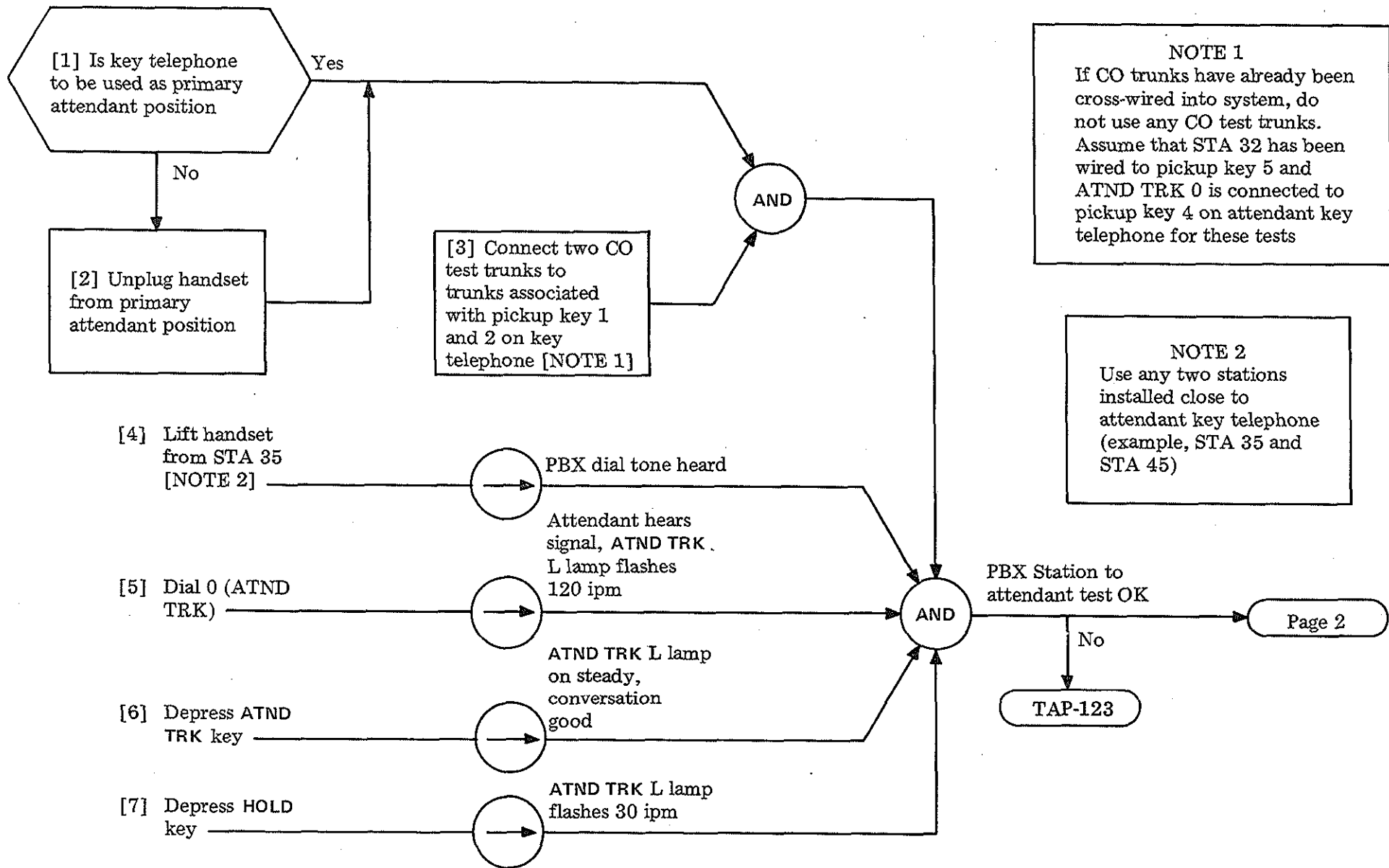
[29] Disconnect W1AF test cord
from -48V BAT



NOTES

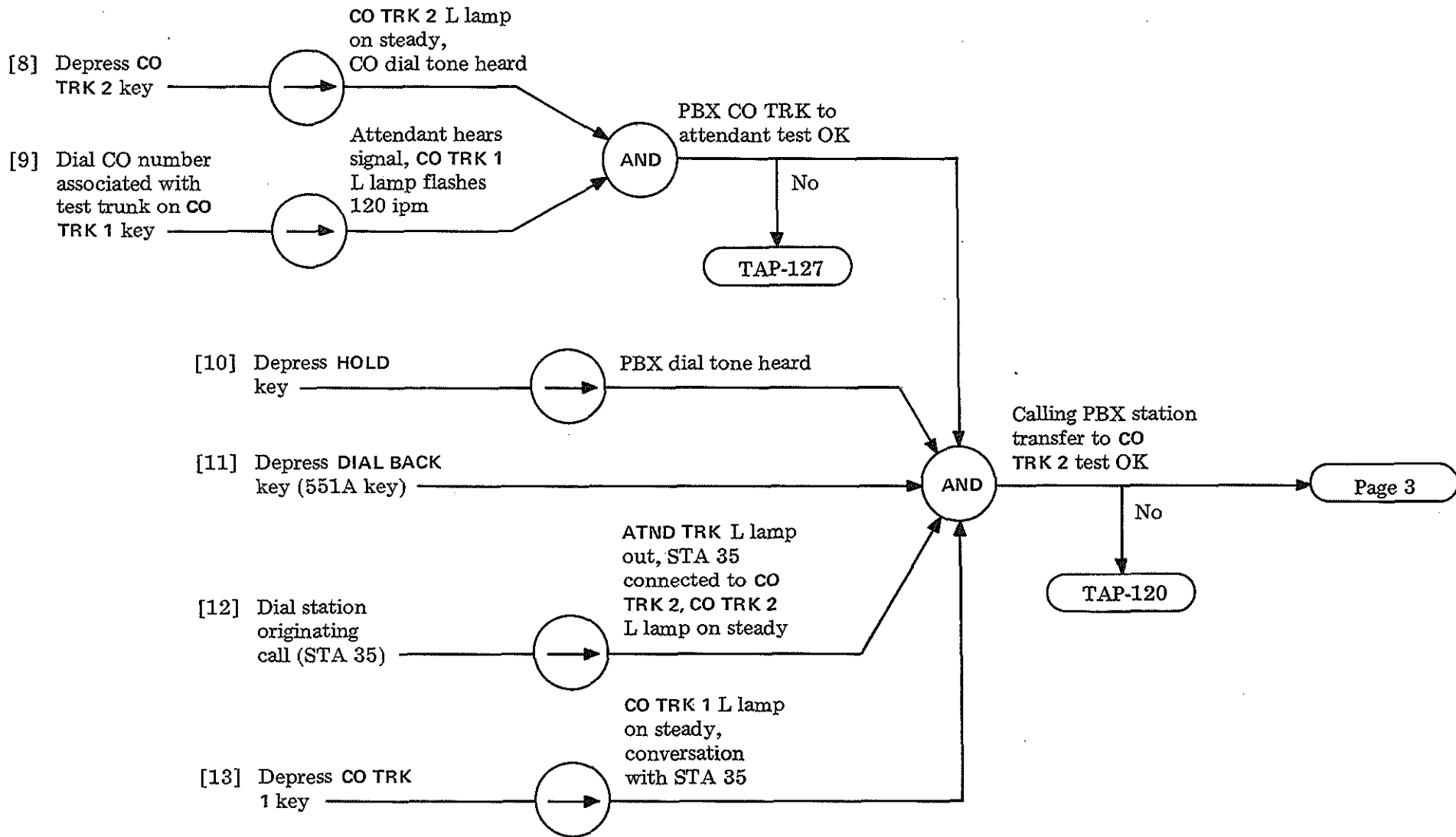
4. Lamps light momentarily while test pick or clip is in contact with designated test points. TR lamps at slide 1 and console should light on every test. Other lamp indications are shown as flow-through results
5. Fuse alarm terminals may be readily accessed with 411A tool by carefully inserting the tip alongside the bead of the fuse to a point where contact is made with alarm surface of fuse clip
6. When indicated results do not occur, and lamps are not at fault, see TAP-102.

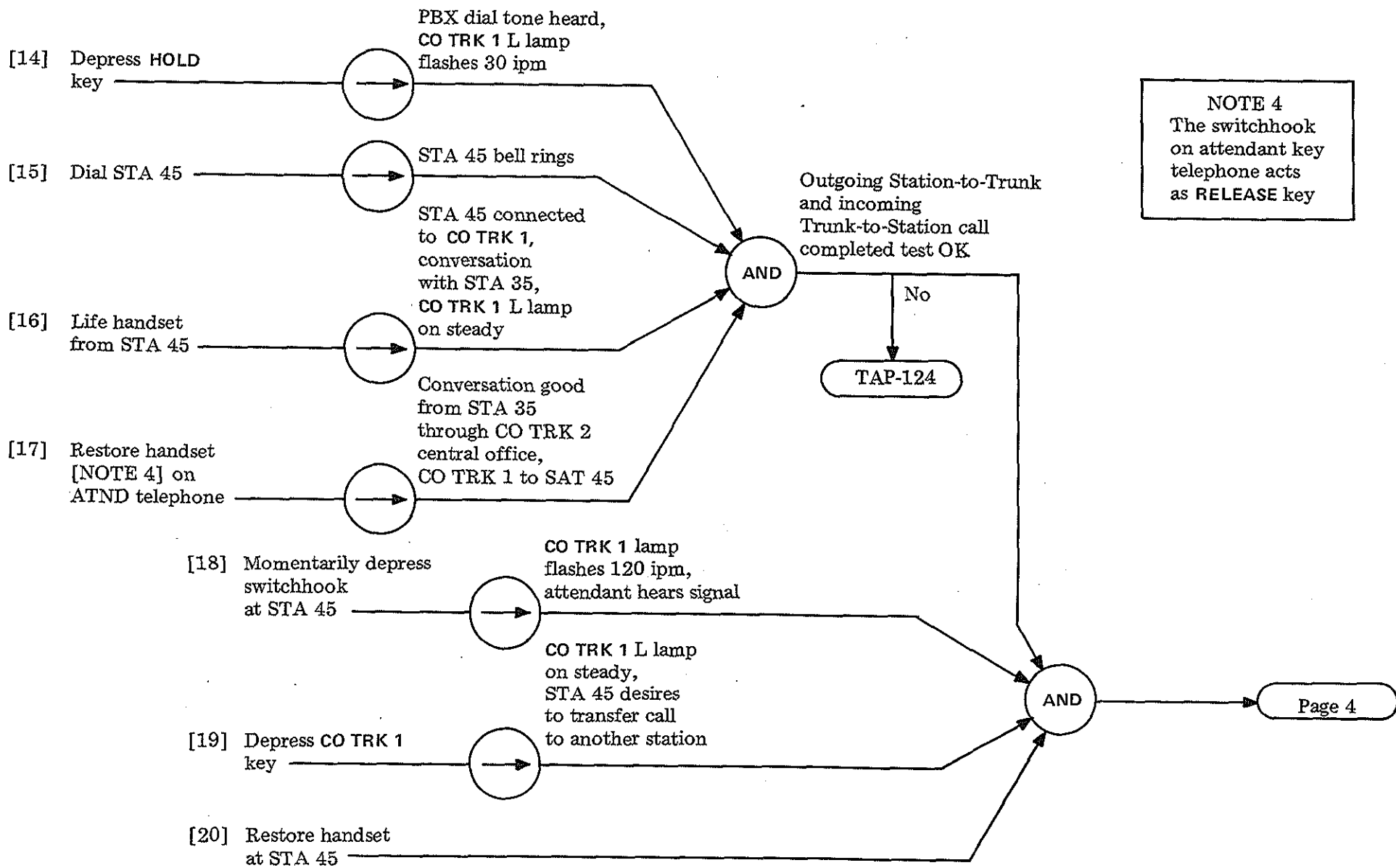




NOTE 1
 If CO trunks have already been cross-wired into system, do not use any CO test trunks. Assume that STA 32 has been wired to pickup key 5 and ATND TRK 0 is connected to pickup key 4 on attendant key telephone for these tests

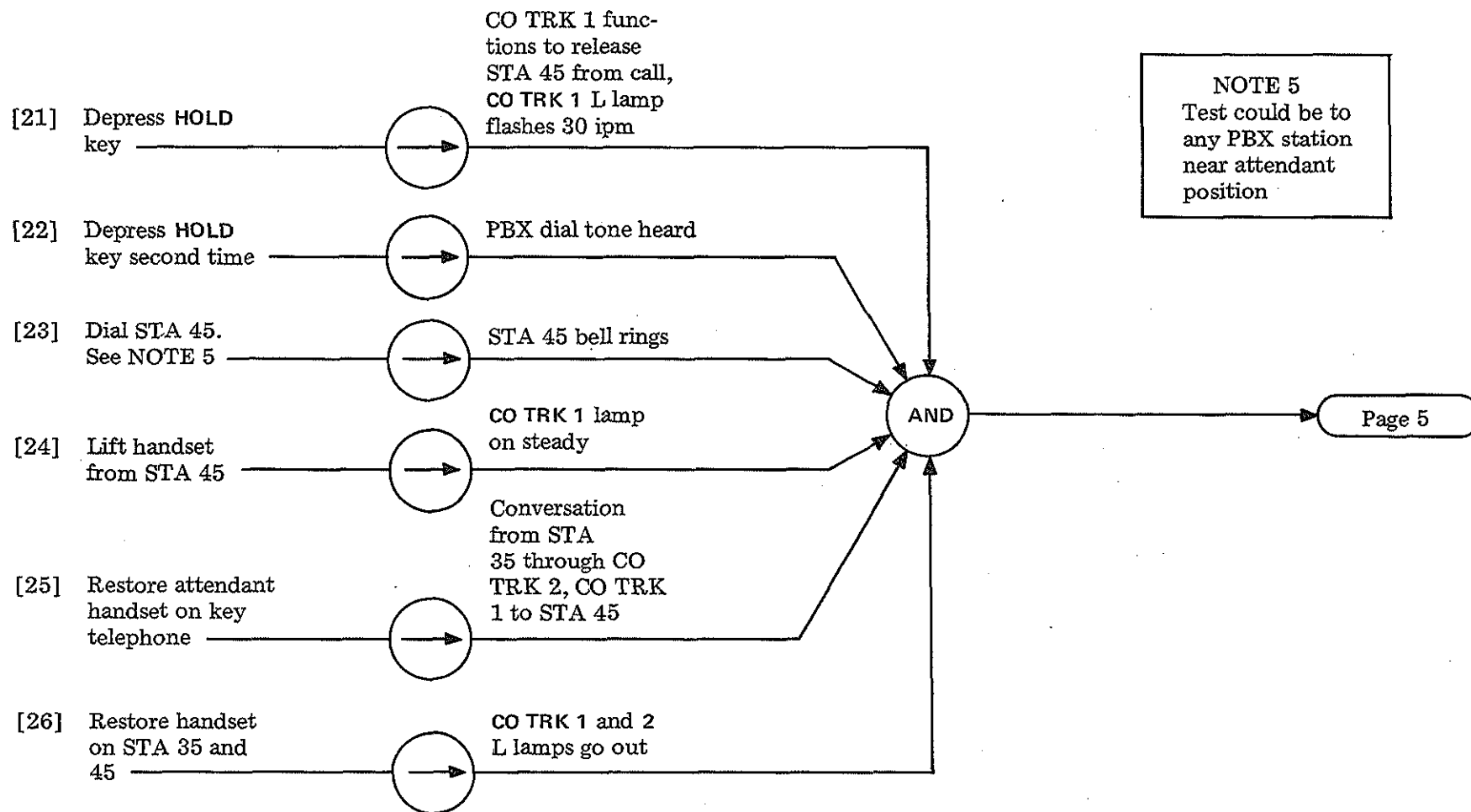
NOTE 2
 Use any two stations installed close to attendant key telephone (example, STA 35 and STA 45)





NOTE 4
The switchhook on attendant key telephone acts as RELEASE key

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TEST ATTENDANT KEY TELEPHONE (6-BUTTON) SET

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[27] Move CO test trunk from trunk associated with CO TRK 1 pickup key to CO TRK 3 pickup key

[28] Repeat steps 4 through 26 using TRK 2 and 3 on attendant key telephone

[29] Depress ATND pickup key 5 [STA 32]

[30] Dial STA 35

[31] Lift handset from STA 35

[32] Restore handset on STA 35

[33] Restore handset on attendant key telephone

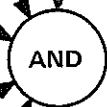
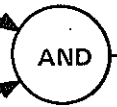
PBX dial tone heard, STA 32 L lamp on

STA 35 bell rings

Conversation good

STA 32 L lamp goes out

Results same as steps 4 through 26

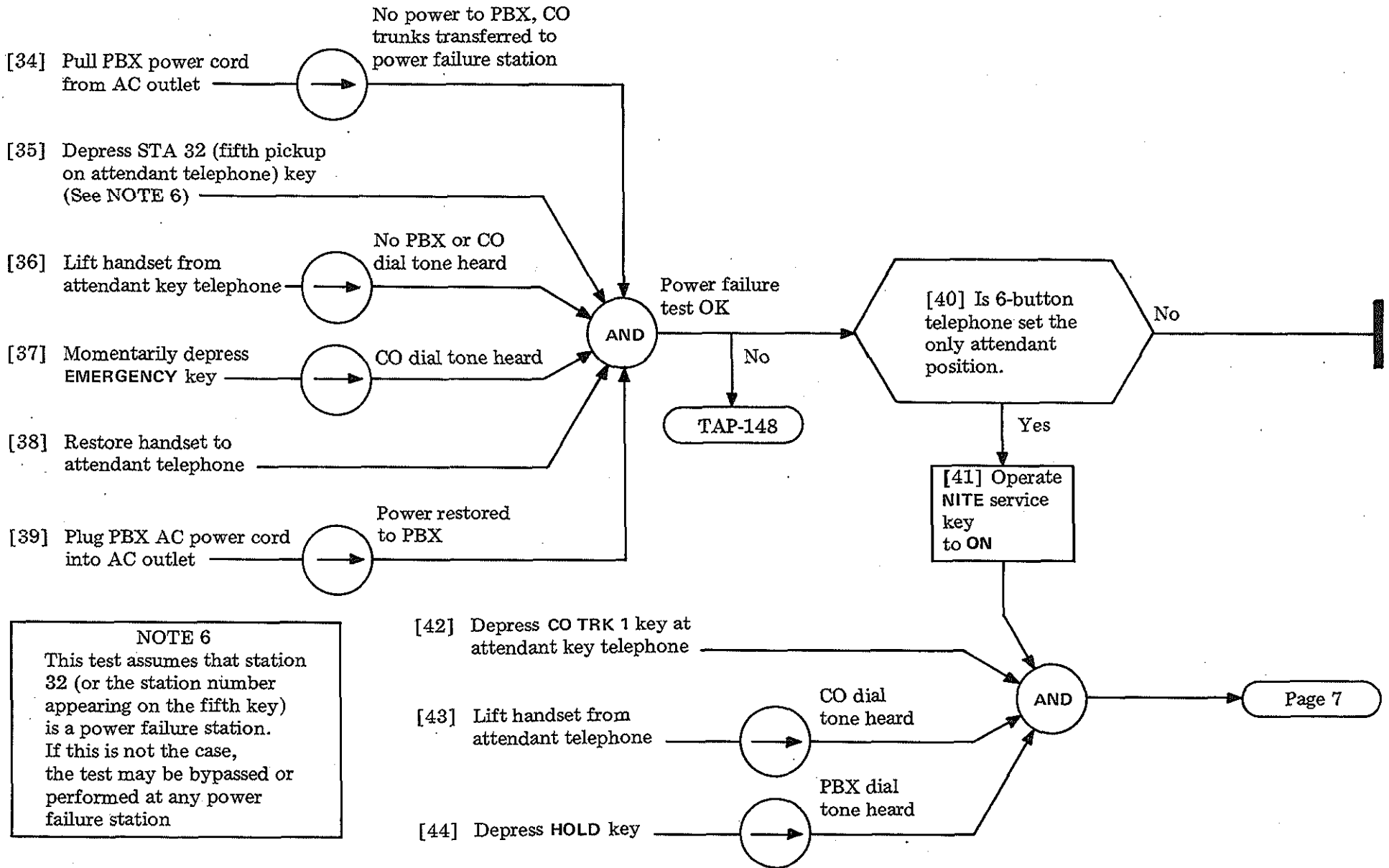


Station-to-station call test OK

No

TAP-125

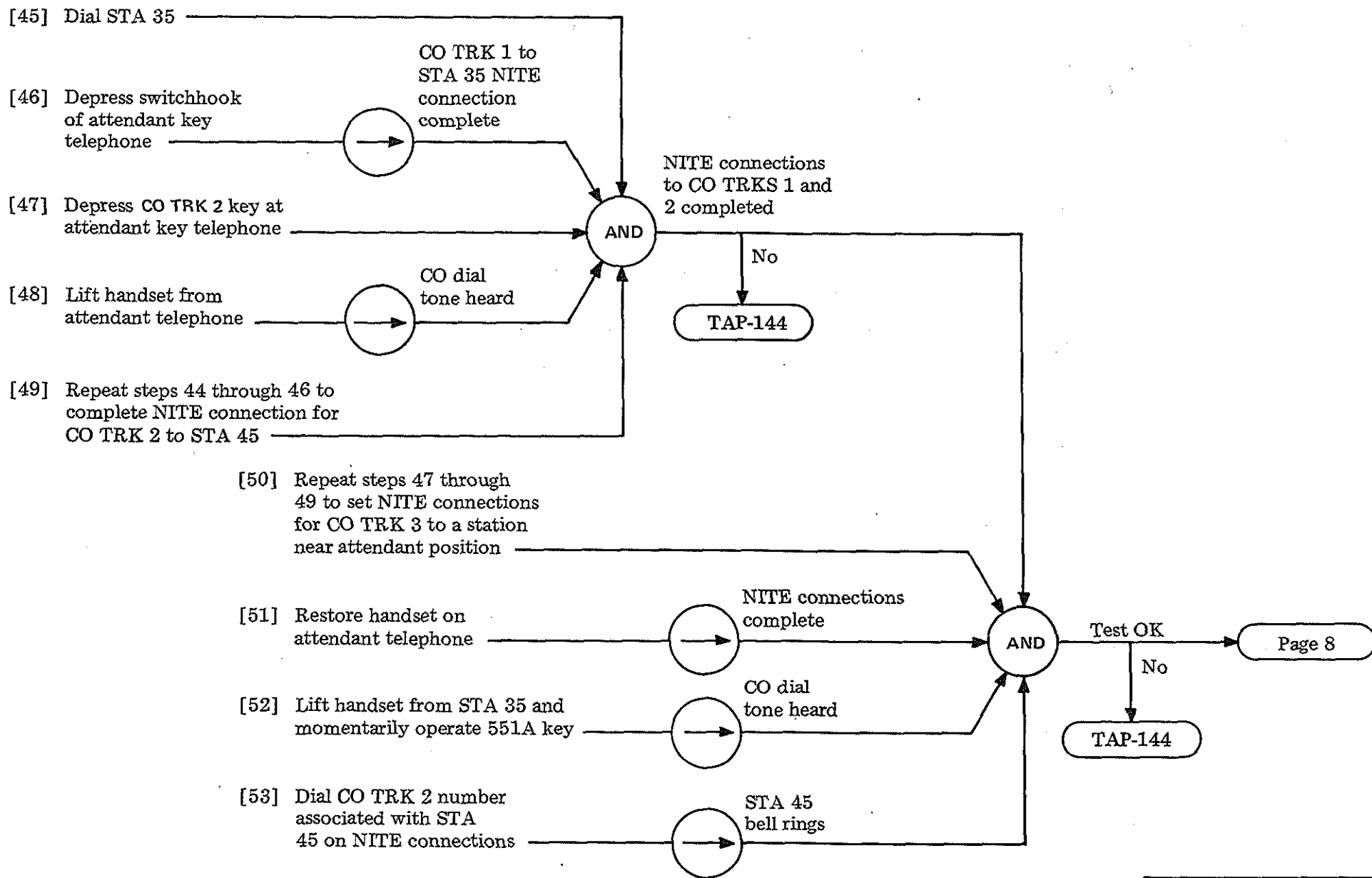
Page 6



NOTE 6
 This test assumes that station 32 (or the station number appearing on the fifth key) is a power failure station. If this is not the case, the test may be bypassed or performed at any power failure station

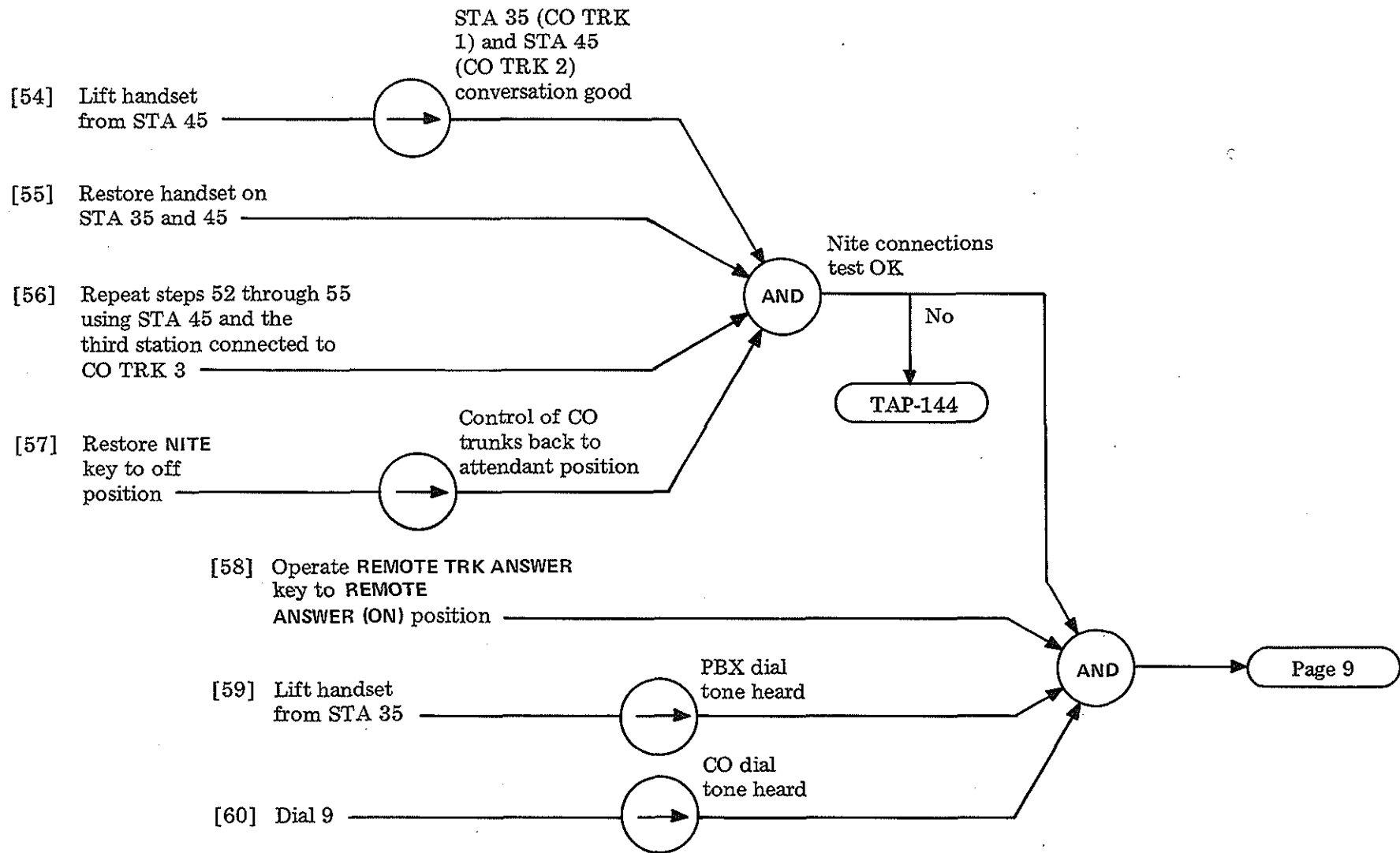
TEST ATTENDANT KEY TELEPHONE (6-BUTTON) SET

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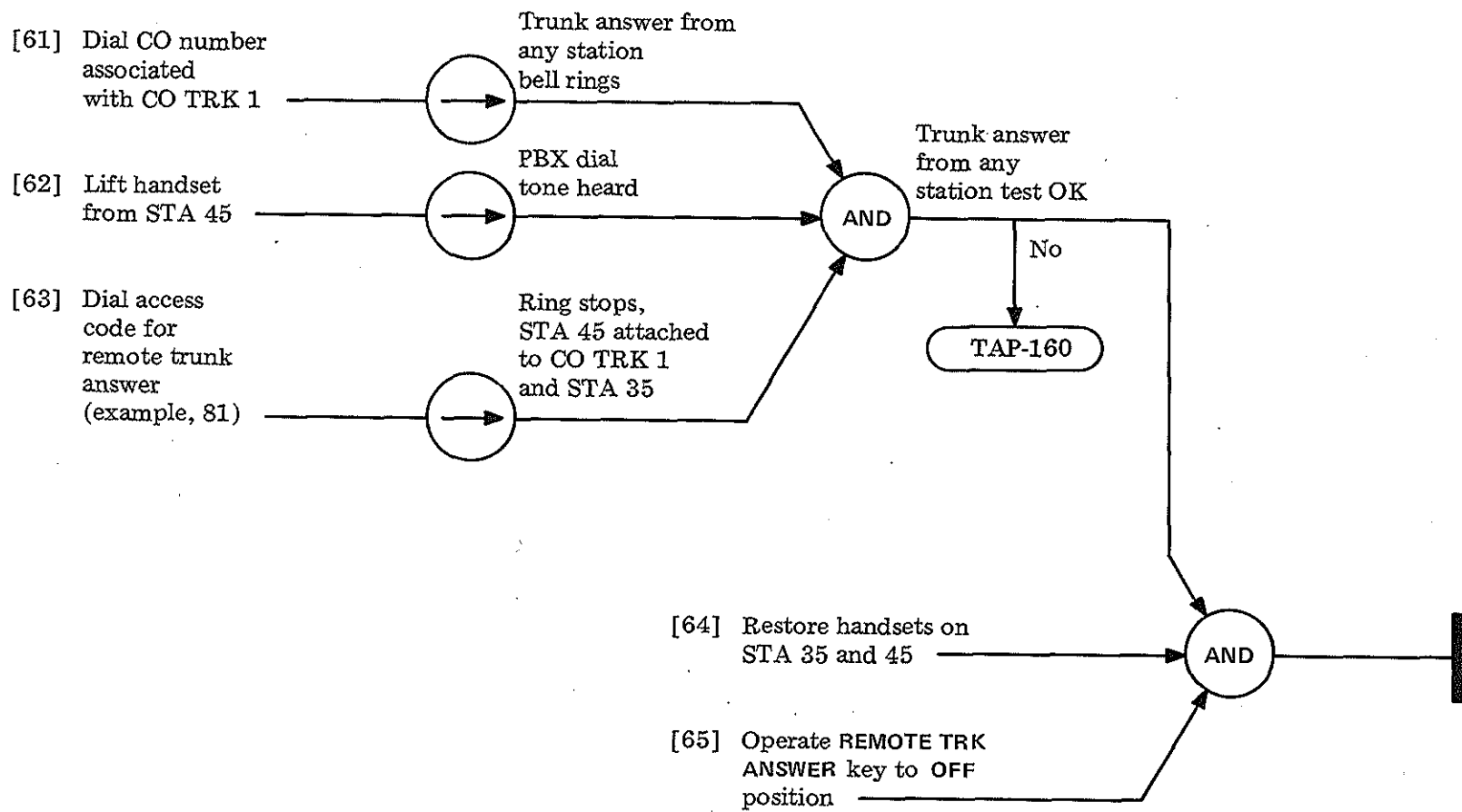
TEST ATTENDANT KEY TELEPHONE (6-BUTTON) SET

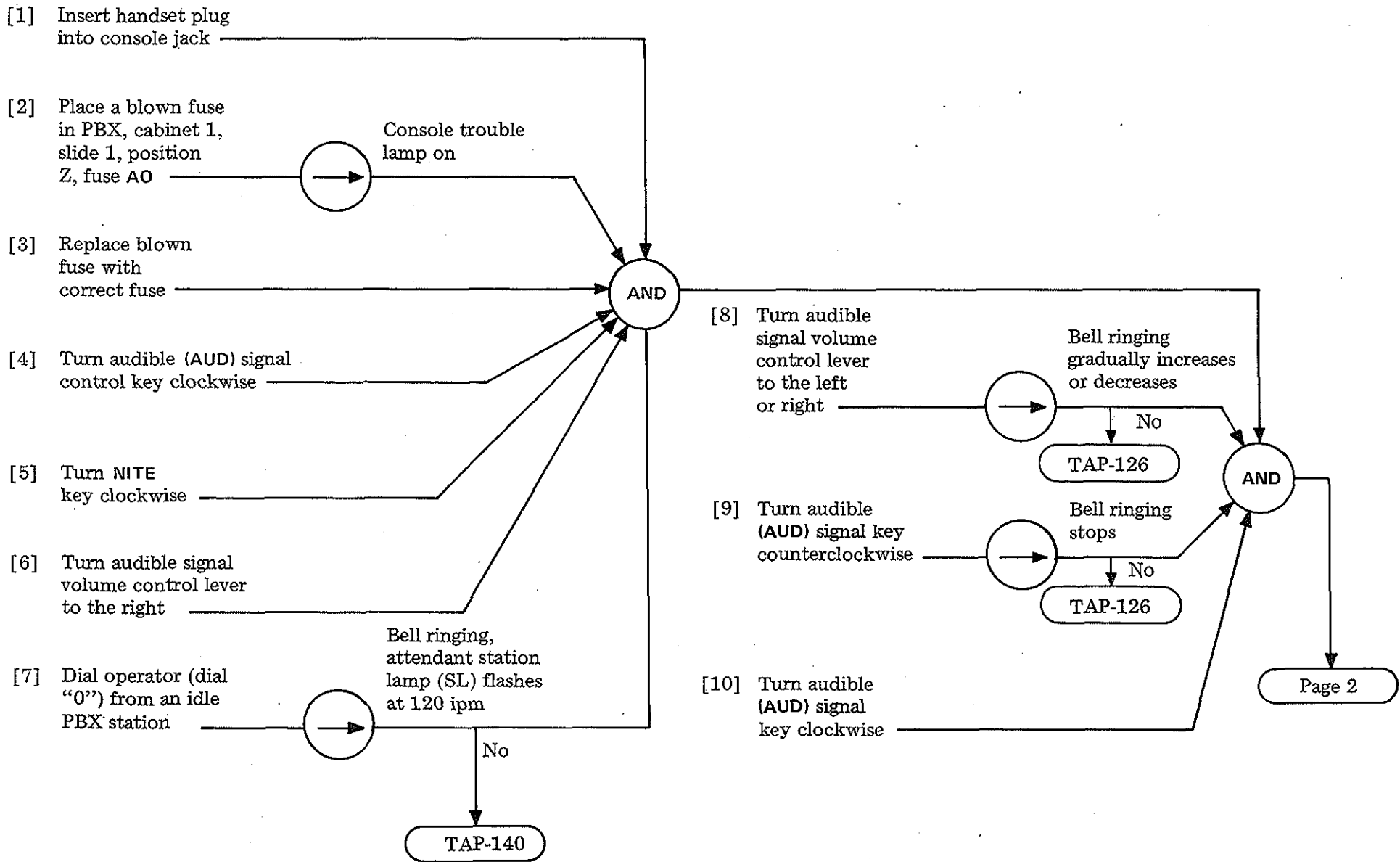
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TEST ATTENDANT KEY TELEPHONE (6-BUTTON) SET

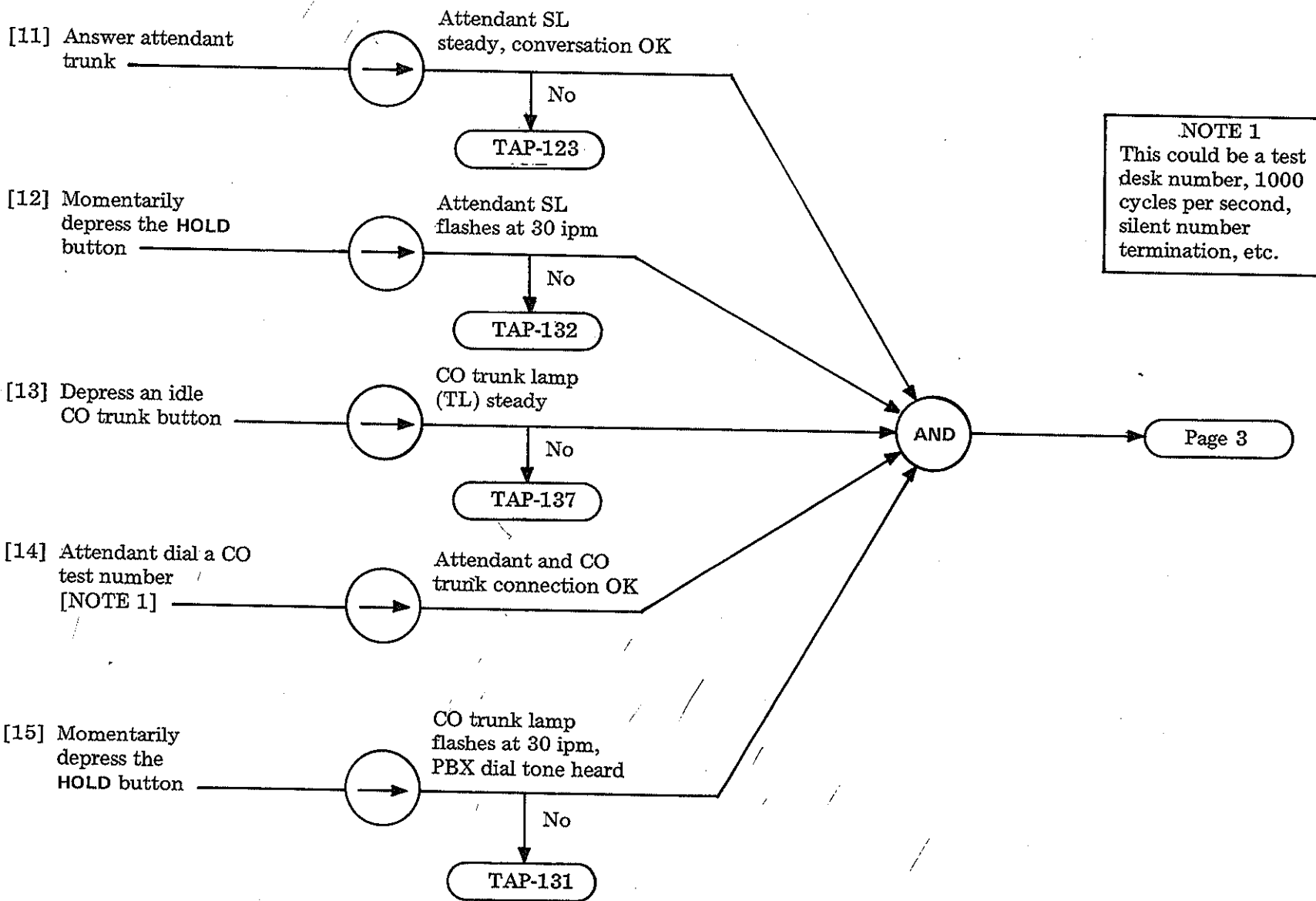
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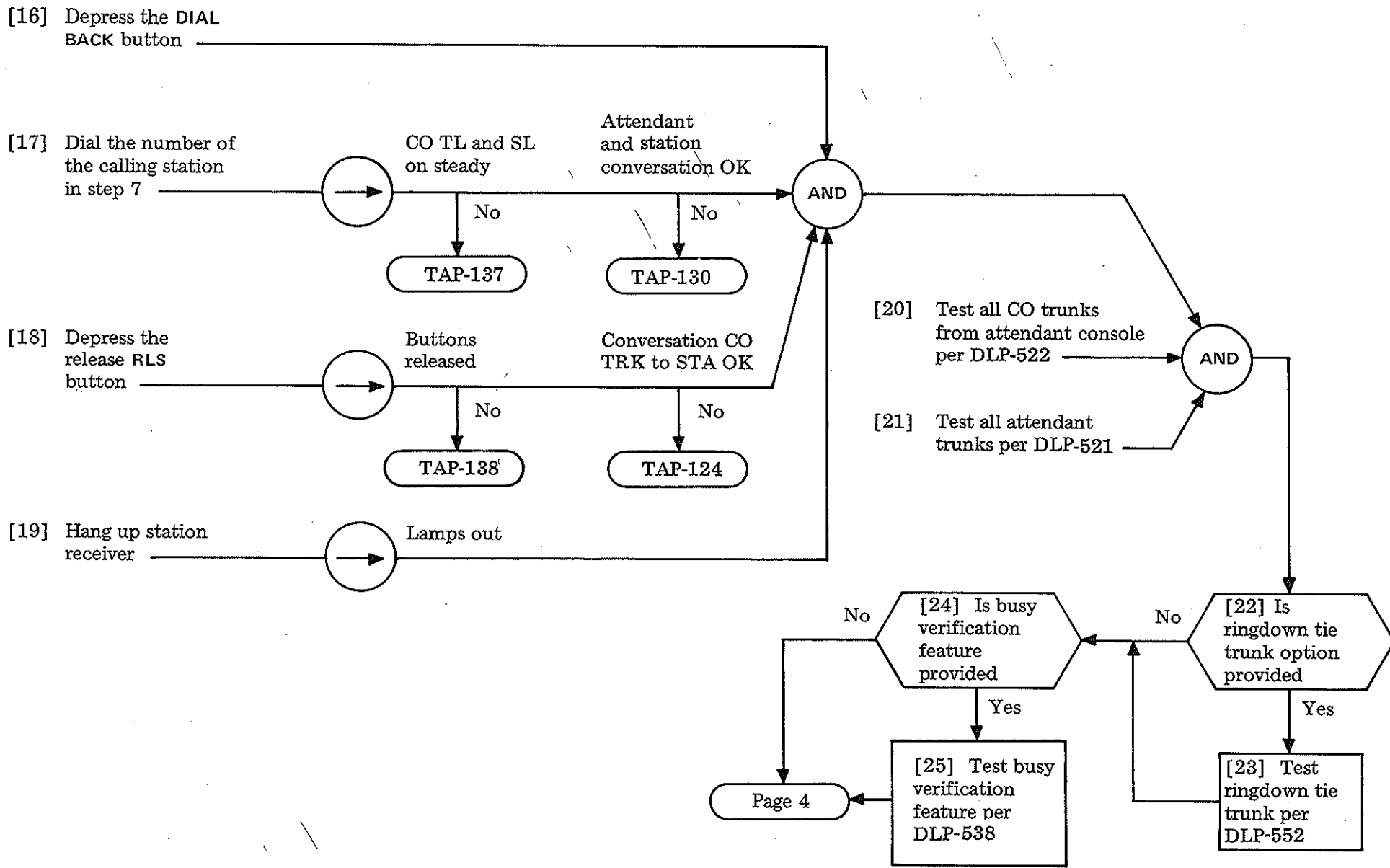


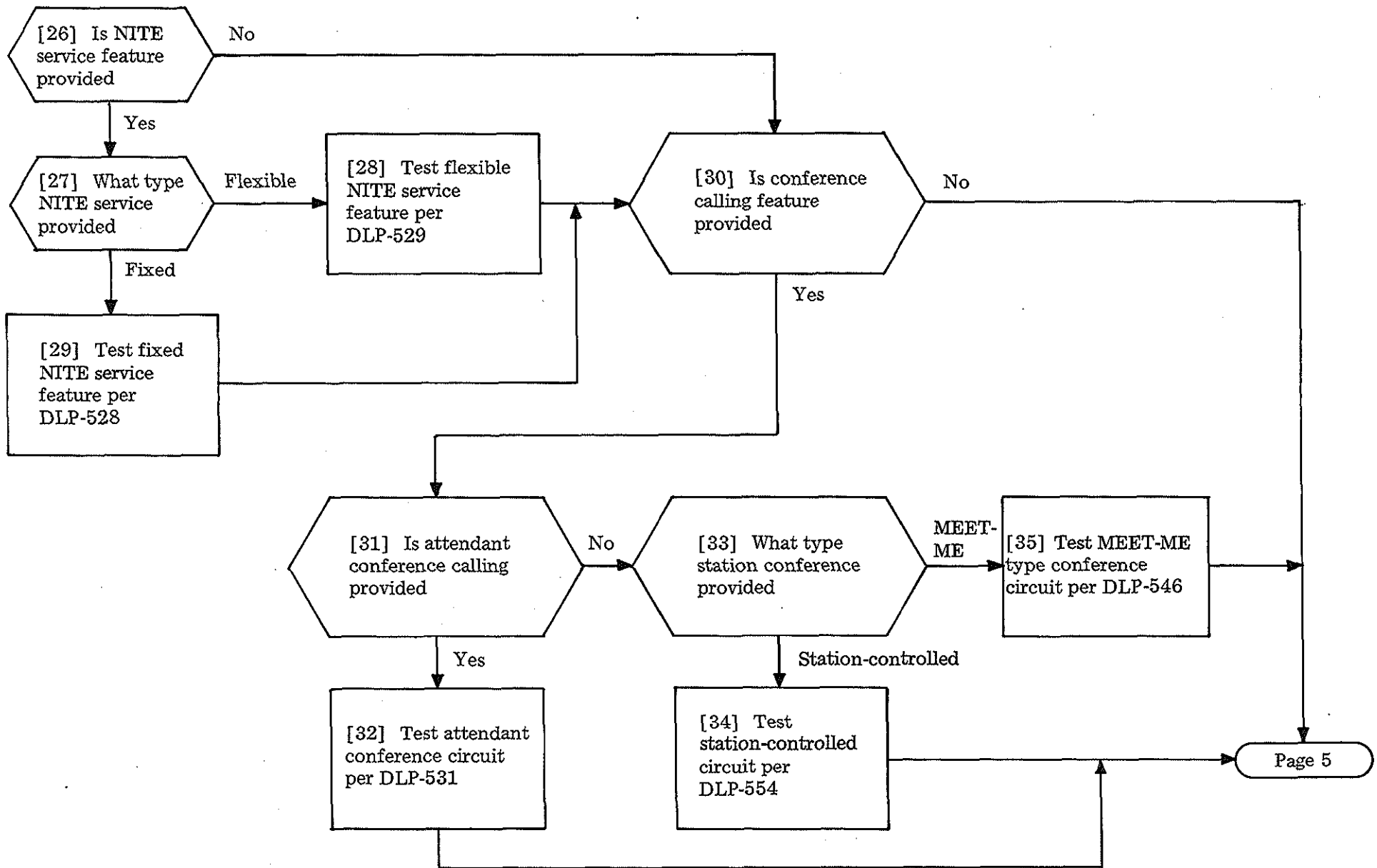
TEST ATTENDANT CONSOLE

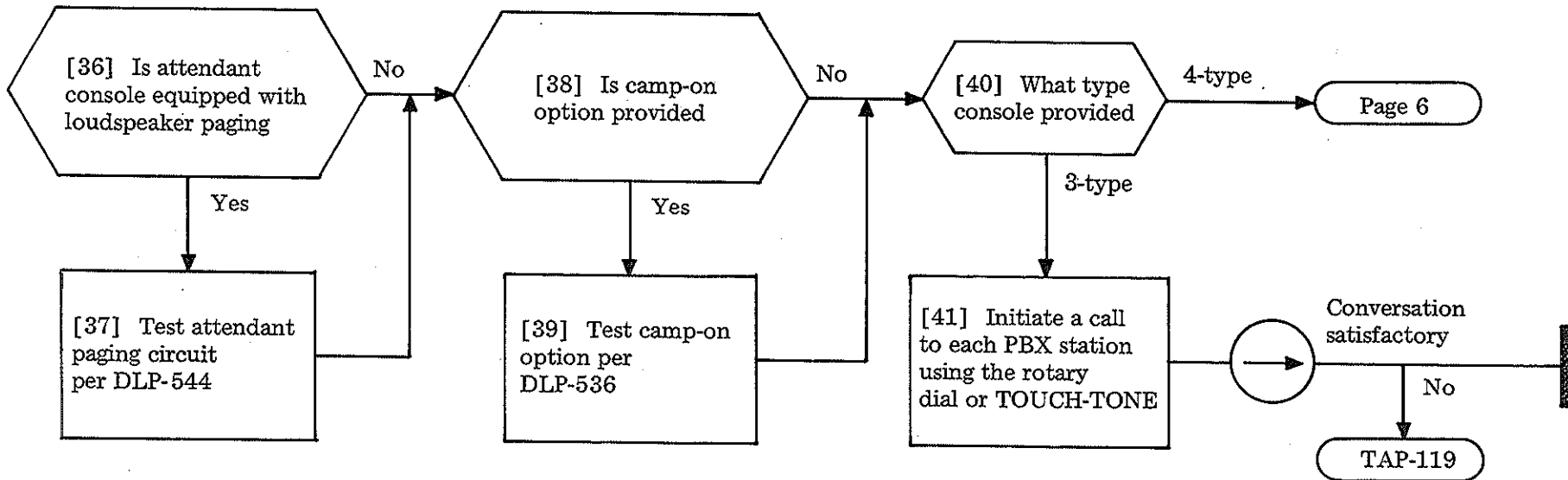
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NOTE 1
 This could be a test desk number, 1000 cycles per second, silent number termination, etc.

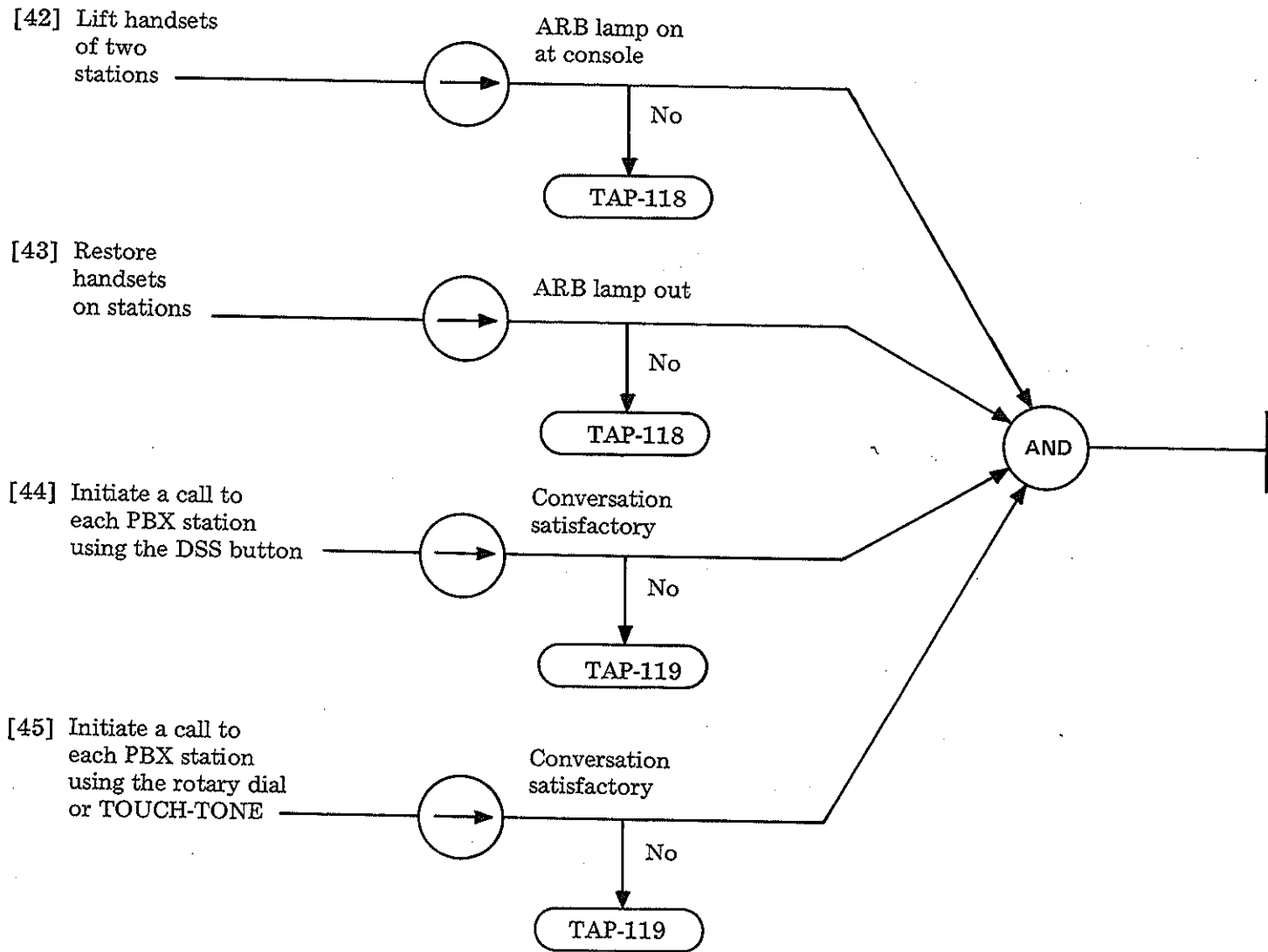






TEST ATTENDANT CONSOLE

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TEST ATTENDANT CONSOLE

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[1] Determine from the service order which optional equipment is to be removed from service

[2] See CAUTION. Perform "action required" per TABLE A

CAUTION
These actions may cause service interruptions if PBX is in use

TABLE A

CIRCUIT		SD NUMBER	ACTION REQUIRED TO REMOVE OPTIONAL EQUIPMENT FROM SERVICE
Central office trunk		65752-01	On trunk unit (slide 5) terminal strip:
			1. Remove strap between terminals 18 and 28 2. Add strap between terminals 17 and 18
Ringdown tie trunk		65756-01	On trunk unit (slide 5) terminal strip:
			1. Remove strap between terminals 18 and 28 (not provided when trunk arranged for code ringing) 2. Add strap between terminals 17 and 18
Dial repeating tie trunk		65755-01	Block SR or M relay operated (at both PBX locations)
		65718-02	Insert dummy plug in test jack C
Conference circuit	Meet-me-type	65745-01	Strap 8-make and 8-fixed and insulate 8-break contacts of L relays of universal line circuit (80 to 89) assigned to meet-me-type conference circuit
	Station-controlled	66902-01	1. Block BY relay operated 2. Remove battery supply fuses
	Attendant-controlled	66908-01	1. Block CO relay operated 2. Remove battery supply fuses
Message waiting		65784-01	1. Operate A and B keys 2. Remove interrupter
Station message register		5E021-01	Block SX relay released
Station inward restriction		5E003-01	1. Block AU (0-9) relays released 2. Remove S and SA straps on TS-B 3. Remove IR straps from TS-C and TS-D 4. Add straps S-SA on TS-A
Busy verification		66911-01	1. Insulate 11-make contact of B relay (attendant trunk 2) 2. Block B relay operated (attendant trunk 2)

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TABLE A (Cont)

CIRCUIT	SD NUMBER	ACTION REQUIRED TO REMOVE OPTIONAL EQUIPMENT FROM SERVICE
Code call	66610-01	With circuit idle, ground lead S of 1st and 2nd terminal unit
Traffic and trouble registers	66796-01 5E010-01	Remove associated strap at traffic and trouble TS on Slide 1
Direct station selection by station	65942-01	1. Remove DSS fuse (-48) on slide 1Z. 2. Remove station equipment
Station dial transfer	66921-01	1. Block STB relay released 2. Block HM relay operated 3. Remove battery supply fuses
	66909-01	1. Block TR (0-9) relays released 2. Remove battery supply fuses 3. Remove crown plugs AL4, AM4, AN4, AP4, AR4, B5, D5, Y5, AA5, AB5, AC5, AD5, AJ5, AK5, AL5, AM5, AN5, AP5, and AR5 4. Strap KS-14173 dummy connectors per SD-66920-01 CAD-5 (ZW and YW options) and insert into connectors
Remote trunk answer	66910-01	1. Block RA relay released 2. Remove strap S-S1 (A) on LINE-TS (slide 2) of station access code
Loudspeaker paging trunk	65747-01	Block A relay released
Recorded telephone dictation trunk	65788-01	Operate MB key
	5E038-01	Insert dummy plug in TEST and MB jack

[1] See NOTE 1. At slide 1, mounting plate AB (1AB), block AL relay nonoperated

At slide 1

[2] Manually operate relays listed in TABLE A

[3] At slide 6R, operate TS relay

See NOTE 2. Associated lamp lights

TS lamp lights

No

TAP-111

AND

[4] Is PBX equipped with WT option (SD-65741, Issue 33 or later, with COAL and XCAL relays)

No

Yes

[5] At slide 1AB, operate COAL relay

COAL lamp lights

No

TAP-100

[6] Operate XCAL relay

XCAL lamp lights

No

TAP-117

AND

[7] At 1AB, remove blocking tool from AL relay

Test completed. See NOTE 1

NOTES

1. If applicable, notify attendant at central office before starting and after completing these tests so that resultant alarms may be disregarded during test.
2. Lamps designated by flow-through will light momentarily while relay is operated. If results do not occur, check lamp and repeat step. If fault does not clear, refer to TABLE A

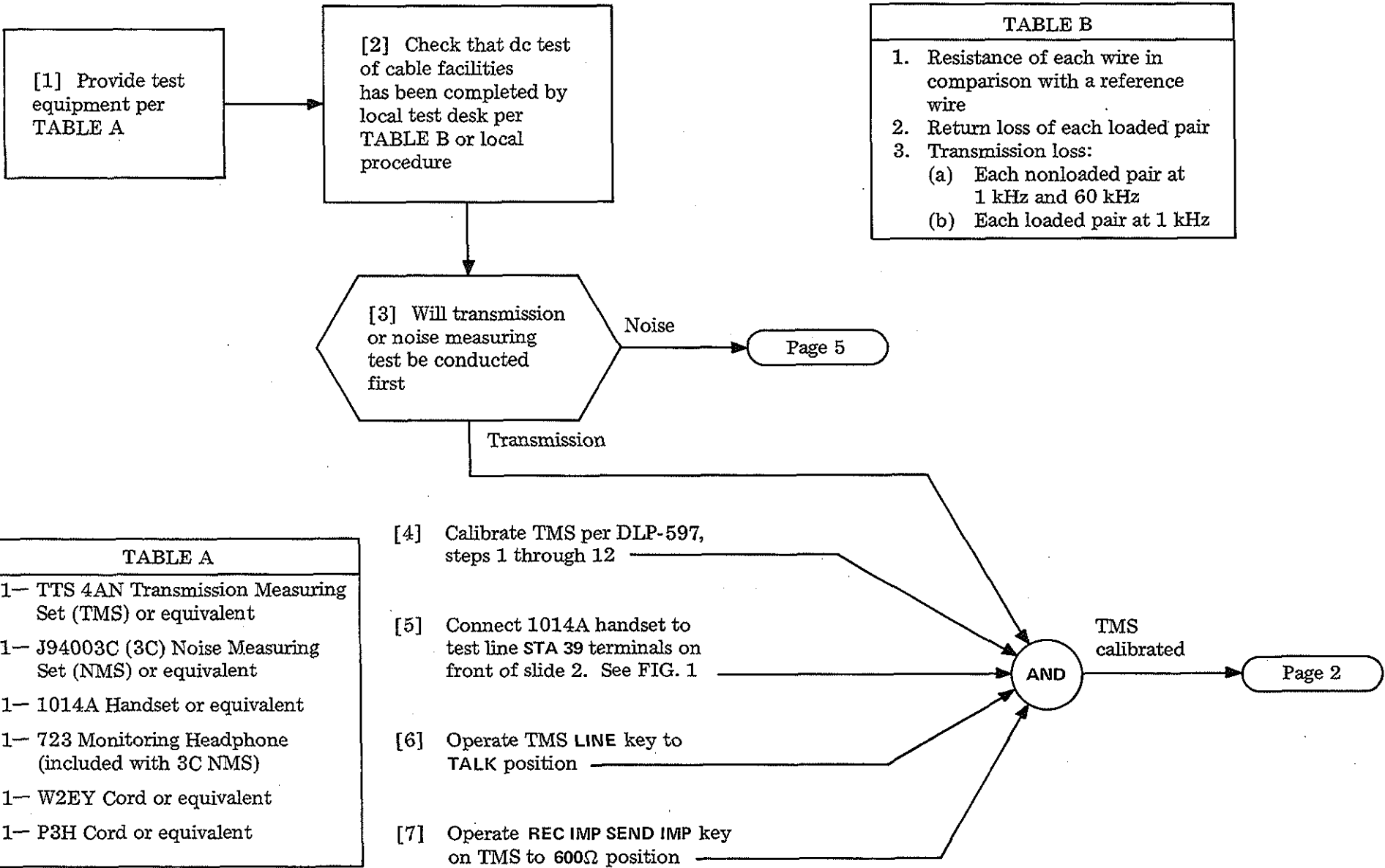
TABLE A

RELAY	ASSOC. LAMP	TAP
UAL	UAL	114
UAL1A	UAL1	115
UAL2	UAL2	116
TRAL	TRAL	109
JRAL	JRAL	103
RLAL	RLAL	108
TAL	TAL	110
TAAL	TAAL	113
LAL2A	LAL2	105
LAL1	LAL1	104
TOALA	TOAL	112
MAL	MAL	106
FA	FA	102
RB, S	PA	107
EXT*	EXT	101

* Optional for external equipment

TEST INDIVIDUAL ALARM LAMPS

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[1] Provide test equipment per TABLE A

[2] Check that dc test of cable facilities has been completed by local test desk per TABLE B or local procedure

TABLE B	
1.	Resistance of each wire in comparison with a reference wire
2.	Return loss of each loaded pair
3.	Transmission loss:
(a)	Each nonloaded pair at 1 kHz and 60 kHz
(b)	Each loaded pair at 1 kHz

[3] Will transmission or noise measuring test be conducted first

TABLE A	
1-	TTS 4AN Transmission Measuring Set (TMS) or equivalent
1-	J94003C (3C) Noise Measuring Set (NMS) or equivalent
1-	1014A Handset or equivalent
1-	723 Monitoring Headphone (included with 3C NMS)
1-	W2EY Cord or equivalent
1-	P3H Cord or equivalent

[4] Calibrate TMS per DLP-597, steps 1 through 12

[5] Connect 1014A handset to test line STA 39 terminals on front of slide 2. See FIG. 1

[6] Operate TMS LINE key to TALK position

[7] Operate REC IMP SEND IMP key on TMS to 600Ω position

PERFORM TRANSMISSION AND NOISE MEASUREMENTS

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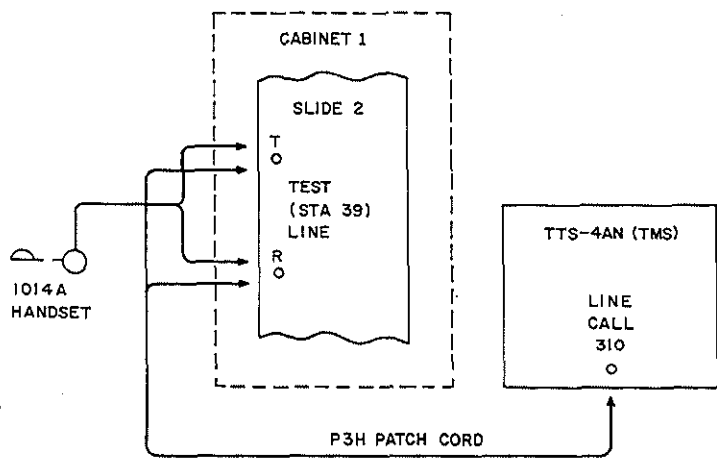
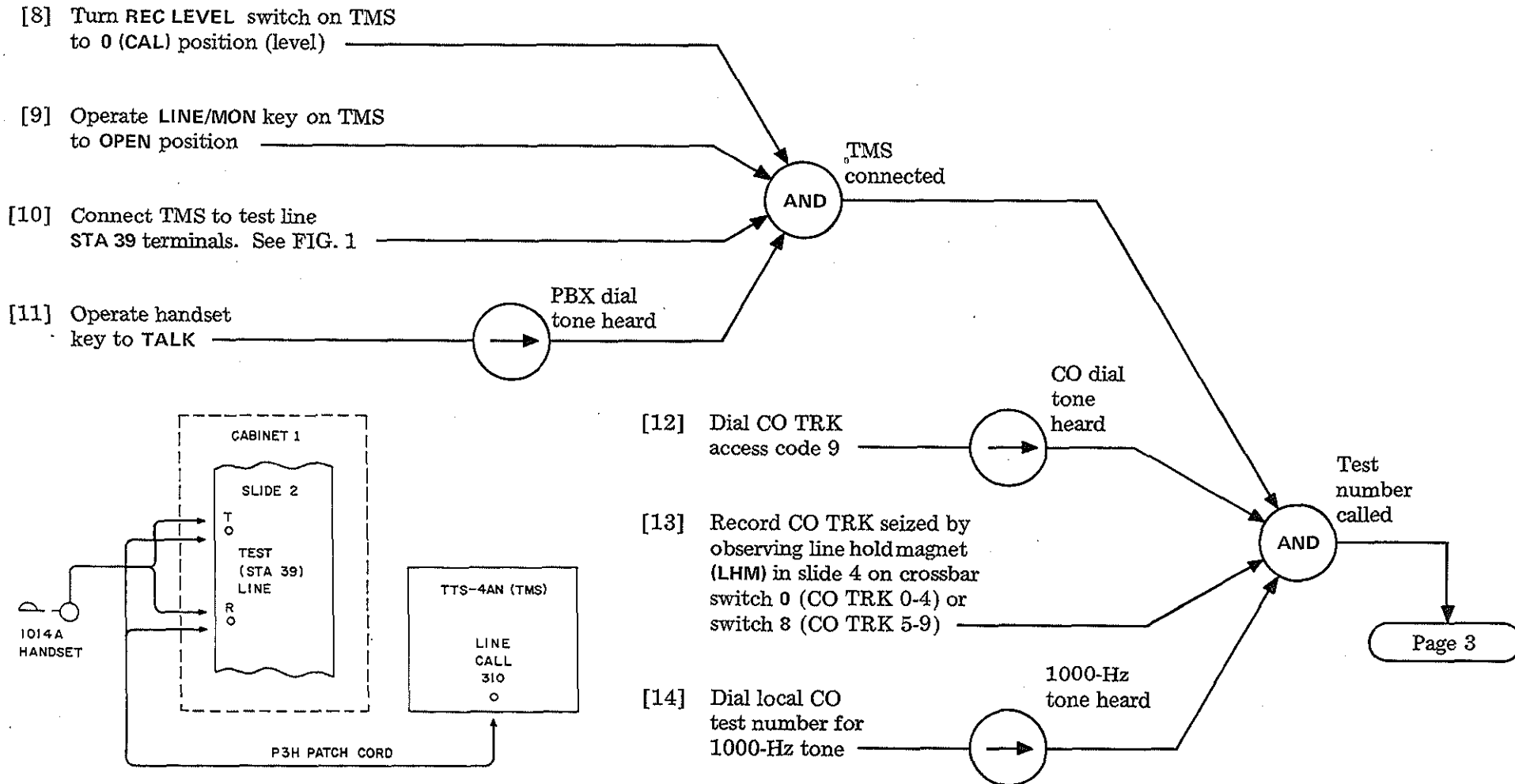
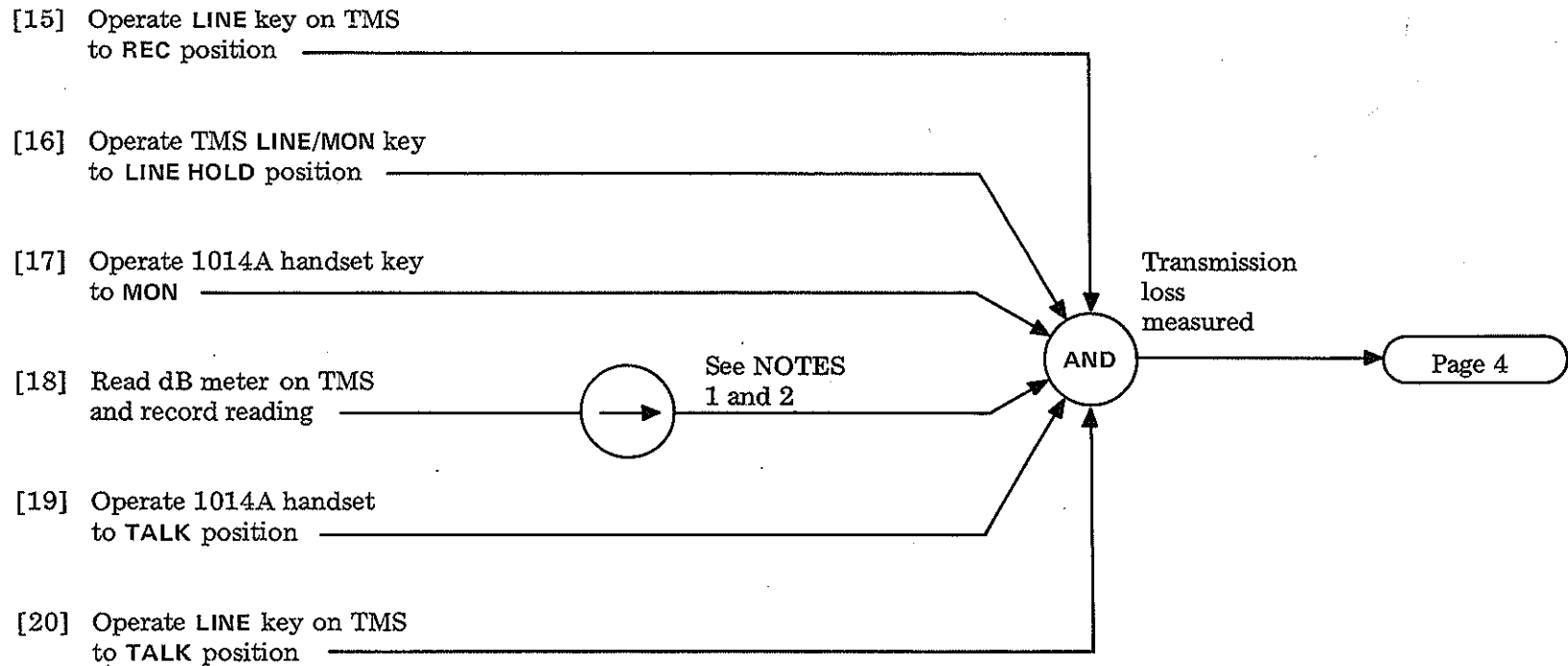
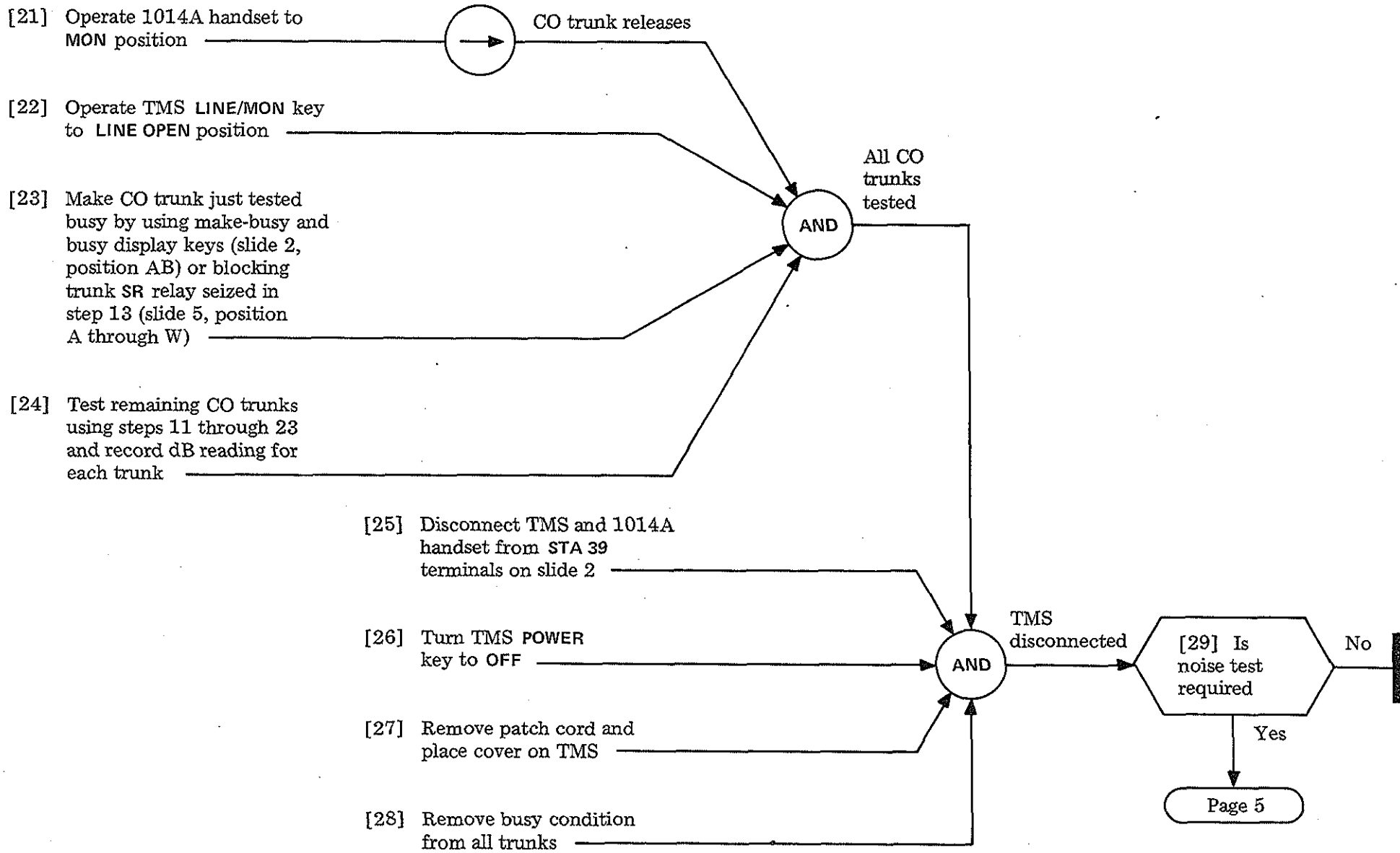


FIG. 1



- NOTES**
1. Meter should read ± 1.0 dB of the EML (estimated measured loss) shown on circuit order. When EML is not provided and PBX does not serve tie trunks or off-premise stations (OPS), the reading should not exceed -6.5 dB. When EML is not provided and PBX serves tie trunks or OPS, the reading should not exceed -4.5 dB.
 2. High or low level readings could indicate trouble with cable pair such as long cable pair, bridged taps on cable, unbalanced pair, etc. Refer these indications to transmission engineering or per local procedures



PERFORM TRANSMISSION AND NOISE MEASUREMENTS

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[30] Remove cover from 3C NMS

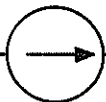
[31] See FIG. 2. Turn FUNCTION switch to OFF

[32] Adjust meter needle over base line at left end of meter, when required. Meter adjustment screw is below meter face

[33] Insert 497A network with C-message end on top in WTG (weighting) jack

[34] See WARNING. Turn DBRN switch to 85

[35] Turn FUNCTION switch to BAT



Meter reads in area marked BAT [NOTES 3, 4]

WARNING
Set DBRN switch to 85 before connecting to external circuit or when changing from one circuit to another

NOTES
3. When meter does not read in shaded BAT area, replace battery with EVERREADY 484 or equivalent through access cover at bottom of 3C NMS cabinet
4. When 3C NMS is to be used with internal battery, access (power cord) cover on top of 3C NMS cabinet must be closed securely



[36] Turn FUNCTION switch to CAL

[37] Adjust CAL control for meter indication on red line of scale

[38] Connect ground lead from an approved ground terminal on cross-connect to GRD post of 3C NMS (upper left corner) [FIG. 2]

[39] Connect 3C NMS to TEST LINE — STA 39 per FIG. 3

[40] Connect 1014A handset to DIAL T and R connectors on 3C NMS per FIG. 3



NMS calibrated and connected

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PERFORM TRANSMISSION AND NOISE MEASUREMENTS

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FIG. 2

PERFORM TRANSMISSION AND NOISE MEASUREMENTS

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[41] Plug 723 monitoring headphone in MON DC jack

[42] Move NORM-DAMP switch to NORM position

[43] Turn FUNCTION switch to DIAL position

[44] Operate 1014A handset to TALK position

PBX dial tone heard

[45] Dial CO TRK access code 9

CO dial tone heard

[46] Record CO TRK seized by observing line hold magnet (LHM) in slide 4 on crossbar switch 0 (CO TRK 0-4) or switch 8 (CO TRK 5-9)

[47] Dial local central office test number for CO filtered battery or quiet termination

[48] Turn 3C NMS FUNCTION switch to Nm 600/900 HOLD position when test termination connected

[49] Adjust DBRN switch until meter indicates between +2 and +9

[50] Observe meter for 10 to 30 seconds and record dBrn where needle appears most of time (not occasional peaks) [NOTE 5]

NOTE 5
Noise tests should be performed during peak service (busy) hours as noise levels can be influenced by other circuits. See TABLE C for noise test limits and report any trunks above 20 dBrn.

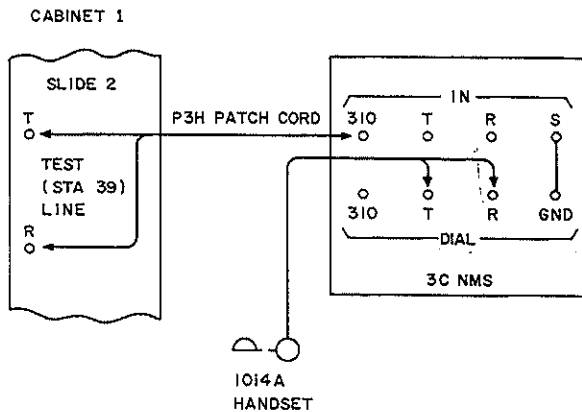
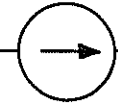


FIG. 3



Noise measured

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NOTE 6
 The 3C NMS battery and calibration condition should be checked between CO trunk tests per steps 35 through 37

TABLE C			
TYPE OF CIRCUIT	OK WHEN NOISE THIS LEVEL OR BELOW	REPORT NOISE LEVEL PER LOCAL PRACTICES WHEN NOISE AT THIS LEVEL	REPORT AND PROCEED TO CLEAR TROUBLE PER LOCAL PROCEDURES WHEN NOISE ABOVE THIS LEVEL
Central office trunk	20	20 to 30	30
Off-premise station lines and tie trunks	28	28 to 41	41

[51] Record character (hissing, frying, cross-talk, power hum, singing, etc) of noise heard in 723 receiver

[52] Turn DBRN switch to 85

[53] Turn FUNCTION switch to DIAL

[54] Operate 1014A handset to MON

[55] Make CO trunk just tested busy by using make-busy and busy display keys (slide 2, position AB) or blocking trunk SR relay seized in step 46 (slide 5, position A through W)

[56] Test remaining CO trunks for noise using steps 44 through 55 and recording dBm and character of noise [NOTE 6]

All CO TRK measured

[57] Disconnect NMS and 1014A handset as set up per FIG. 3

[58] Remove busy condition from all trunks

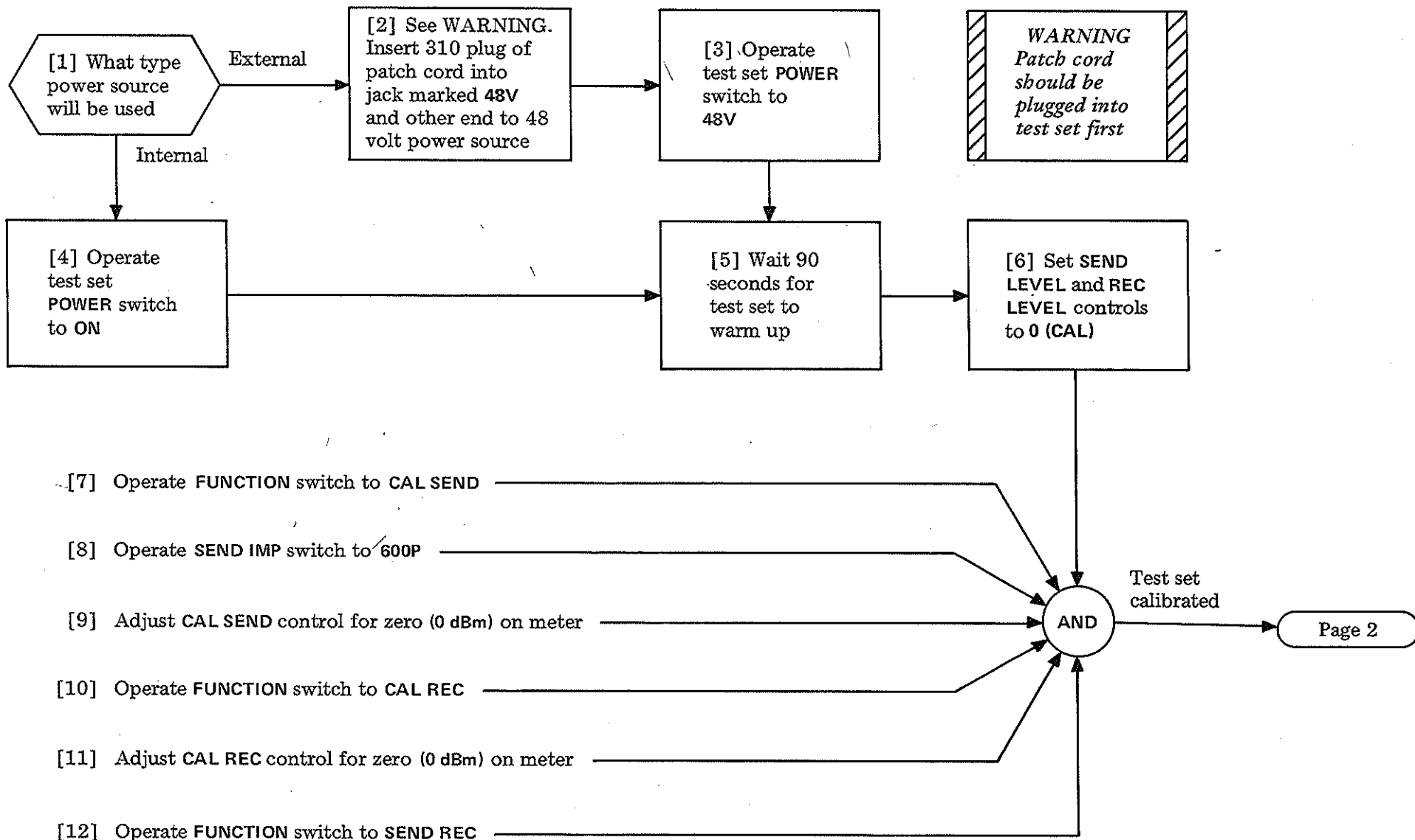
[59] Turn FUNCTION switch on 3C NMS to OFF

[60] Turn DBRN switch to 85

[61] Disconnect test cords from 3C NMS and replace cover

Disconnect setup

PERFORM TRANSMISSION AND NOISE MEASUREMENTS



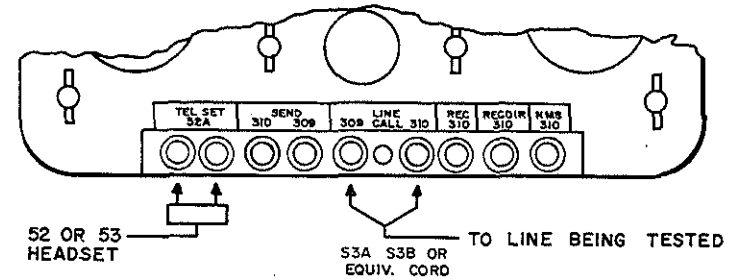
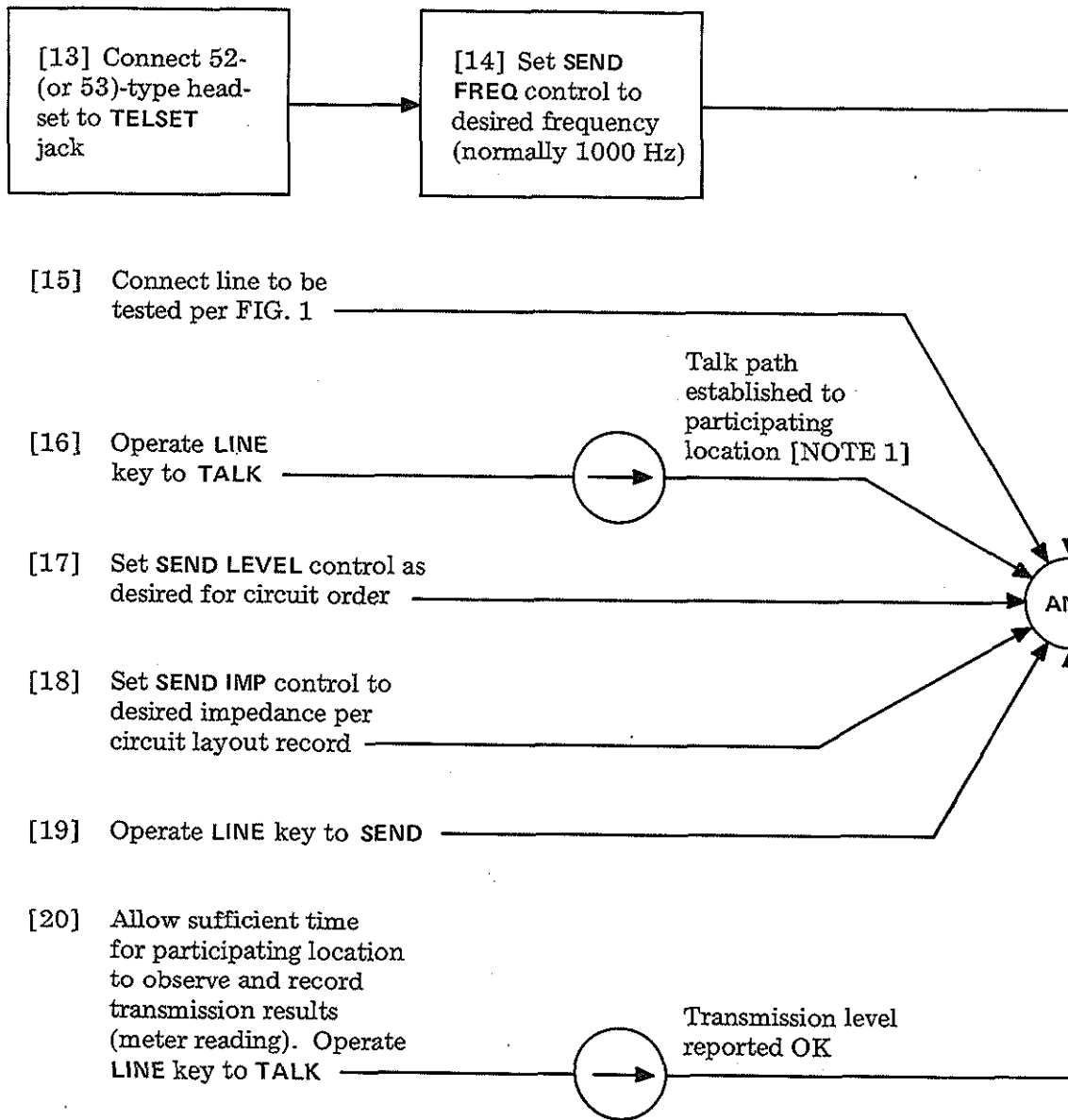


FIG. 1—Jack Field for TTS 4AN

NOTE 1
 Notify participating location of your readiness to begin tests.

[21] Set REC IMP control to desired impedance

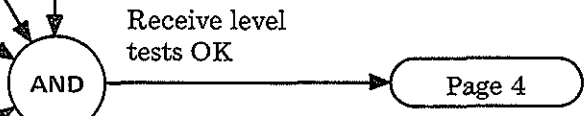
[22] Request participating location to transmit tone to your location

[23] When tone is heard operate LINE key to REC

[24] Adjust REC LEVEL switch to obtain meter reading between -3 and +3 dB if possible [NOTES 3 and 4]

[25] Operate LINE MONITOR switch to ON to determine when tone transmission is complete

[26] When transmission is complete, operate MONITOR key to HOLD and LINE key to TALK



NOTES

3. DBM level will be the sum of REC LEVEL switch and meter reading.
Example:
REC LEVEL + meter = level
+7 +2 = +9

4. High or low level readings could indicate trouble with cable pair such as long cable pair, unbalanced pair, etc. Refer these indications to transmission engineering or per local procedures

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[27] Repeat steps 15 through 26 for remaining lines

[28] See WARNING. Operate test set POWER switch to OFF

[29] Remove test set connections

[30] Remove head sets from test set



Transmission tests complete, equipment restored to operating condition

WARNING
If test set is operating from an external power source: operate POWER switch to OFF, remove cord from external power source, then remove cord from test set jack.

Alarm Counting, Releasing, and Lock-IN ... Test	517	Central Office Trunks (SD-65752) ... Test.	522
Alarm Lamps ... Test Individual	595	Central Office Trunks ... Install Plug-In.	508
Alarm ... Test Time Out.	515	Central Office Trunks (Traffic Usage) for TMS 1A ... Test	584
Alarms ... Test Release	516	Central Office Trunks (SD-65752) ... Wire Options for	509
Assemble 756A Cabinets	500	Code Call Equipment (SD-66610) ... Install and Test 3A	539
Attendant-Controlled Dial Conference Equipment (SD-66908) ... Install and Test.	530	Conference Equipment (SD-66908) ... Install and Test Attendant-Controlled Dial	530
Attendant Trunk Option ... Wire (No Attendant Equipment)	506	Conference Equipment (SD-65745) ... Install and Test Meet-Me-Type.	545
Attendant Trunks ... Test	521	Conference Equipment (SD-66902) ... Install and Test Station-Controlled Dial	553
Attendant Trunks (Traffic Usage) for TMS 1A ... Test.	582	Conference Feature ... Test Attendant-Controlled Dial	531
A-Type "TOUCH-TONE®" Calling Equipment (SD-98148) ... Install and Test.	560	Conference Feature ... Test Meet-Me-Type.	546
Build Test Adapter and Lamp Indicator to Test Traffic Measurement (TMS 1A) Feature	581	Conference Feature ... Test Station-Controlled Dial	554
Busy-Tone Trunk ... Test	520	Console Equipment ... Install 3-Type	502
Busy-Tone Trunk (Traffic Usage) for TMS 1A ... Test	583	Console Equipment ... Install 4-Type	503
Busy-Verification Trunk (BVT) Equipment (SD-66911) ... Install and Test.	537	Console ... Test Attendant	593
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Cabinets ... Assemble 756A	500	C-Type "TOUCH-TONE®" Calling Equipment (SD-67027) ... Install and Test.	559
Cables ... Install Crown, House and Feeder, and Supplementary.	501	Dictation Feature ... Test Recorded Telephone	550
Call Transfer Individual (Previously Station Dial Transfer) Equipment (SD-66909, SD-66921) ... Install and Test.	532	Dictation Trunk Equipment (SD-5E038) ... Install and Test Recorded Telephone	549
Call Transfer Individual (Previously Station Dial Transfer) Feature ... Test	533	Direct Station Selection (DSS) by Stations Feature ... Test	542
Camp-On Feature ... Test	536	Fixed Nite Service ... Test	528
		Flexible Nite Service ... Test	529

Fuse Alarms ... Test	591
House and Feeder, and Supplementary Cables ... Install Crown	501
Hunting Groups ... Test Station	527
Install and Test Attendant-Controlled Dial Conference Equipment (SD-66908).	530
Install and Test A-Type "TOUCH-TONE®" Calling Equipment (SD-98148).	560
Install and Test Busy Verification Trunk (BVT) Equipment (SD-66911).	537
Install and Test Call Transfer Individual (Previously Station Dial Transfer) Equipment (SD-66909, SD-66921)	532
Install and Test 3A Code Call Equipment (SD-66610).	539
Install and Test C-Type "TOUCH-TONE®" Calling Equipment (SD-67027).	559
Install and Test Loudspeaker Paging Trunk Equipment (SD-65747)	543
Install and Test Message Waiting Equipment (SD-65784).	547
Install and Test Recorded Telephone Dictation Trunk Equipment (SD-5E038).	549
Install and Test Remote Trunk Answer (RTA) (Presently Trunk-Answer- From-Any-Station) Equipment (SD-66910)	534
Install and Test Station Dial Transfer (SDT) (Presently Call Transfer Individual) Equipment (SD-66909, SD-66921)	532
Install and Test Station Inward Restriction Equipment (SD-5E003)	555
Install and Test Station Message Register (SMR) Pulse and Surcharge Equipment (SD-5E021).	557
Install and Test Traffic and Trouble Registers (SD-65746, SD-5E010)	562
Install and Test Traffic Measurement System (TMS 1A) Equipment (SD-3B200).	580

Install and Test Trunk-Answer-From-Any-Station (Previously Remote-Trunk-Answer) Equipment (SD-66910)	534
Install Crown, House and Feeder, and Supplementary Cables	501
Install and Test Meet-Me-Type Conference Equipment (SD-65745)	545
Install Plug-In Central Office Trunks	508
Install and Test Ringdown Tie Trunk (RDTT) Equipment (SD-65756)	551
Install Station Controlled Dial Conference Equipment (SD-66902)	553
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