

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	

ACCEPTANCE TASKS			PROCEDURE NUMBER
<p>NOTE TESTS SHOWN IN THE COMPANY ORDER PROCEDURES (COPs) ARE ARRANGED TO BE EMPLOYED AS ACCEPTANCE TESTS</p>			
ACCEPTANCE TASK LIST – 756A PBX			Issue 1
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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	
<i>(continued on page 2)</i>			
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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
<div>SERVICE ORDER LIST — 756A PBX</div>		
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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>	
INSTALL AND TEST 100-SERIES 756A PBX		Issue 1 May 1975
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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
	(continued on page 3)	
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[illegible]

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
	(continued on page 2)	
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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
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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>	
INSTALL AND TEST 300-SERIES 756A PBX		Issue 1
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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
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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
INSTALL AND TEST 300-SERIES 756A PBX		
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ITEM	SUBTASKS	PROCEDURE NUMBER	
1	Install 3-Type Console Equipment	DLP-502	
2	Test Attendant Console	DLP-593	
INSTALL AND TEST 3-TYPE CONSOLE EQUIPMENT		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	
INSTALL AND TEST 4-TYPE CONSOLE EQUIPMENT		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	May 1975
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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
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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
INSTALL AND TEST TRAFFIC MEASUREMENT SYSTEM (TMS 1A)		Issue 1
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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

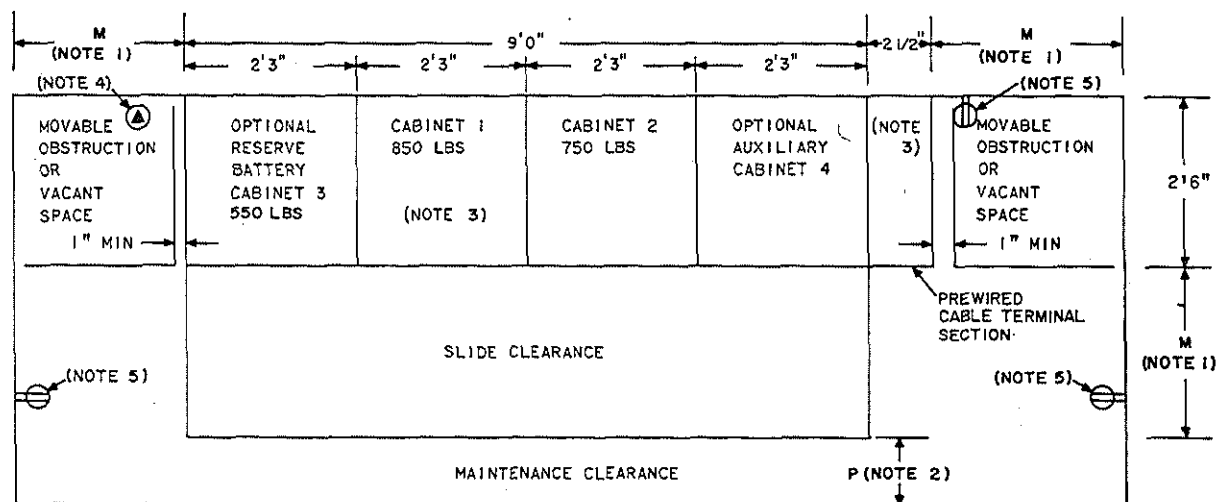
DANGER 1
Care should be taken when moving the PBX cabinets. Weight of each cabinet is approximately 750 lbs.

- [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]

AND

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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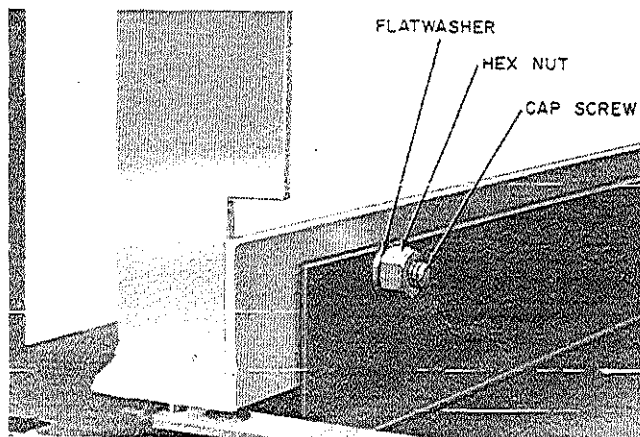


FIG. 2

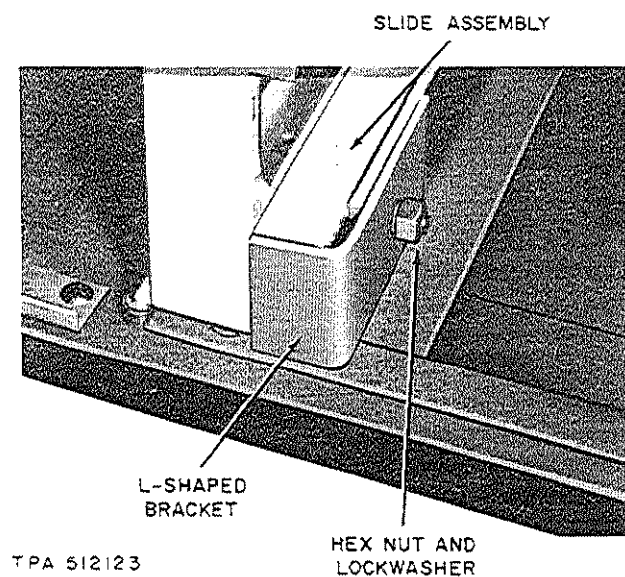


FIG. 3

ASSEMBLE 756A CABINETS

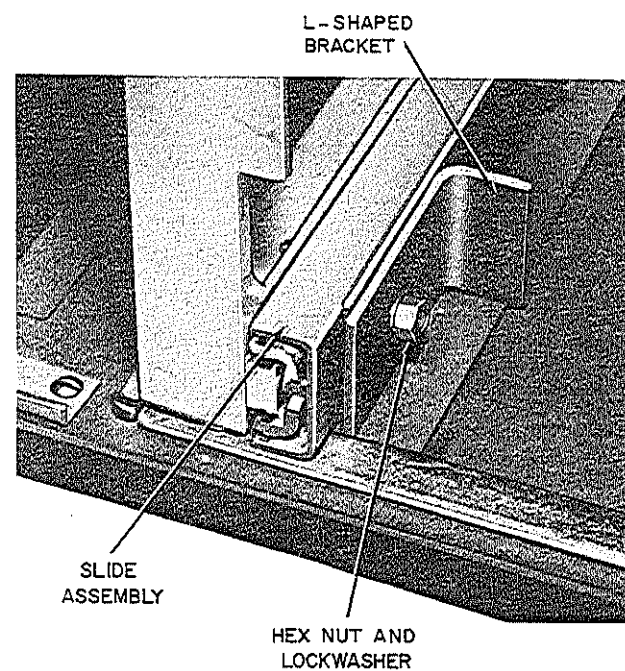
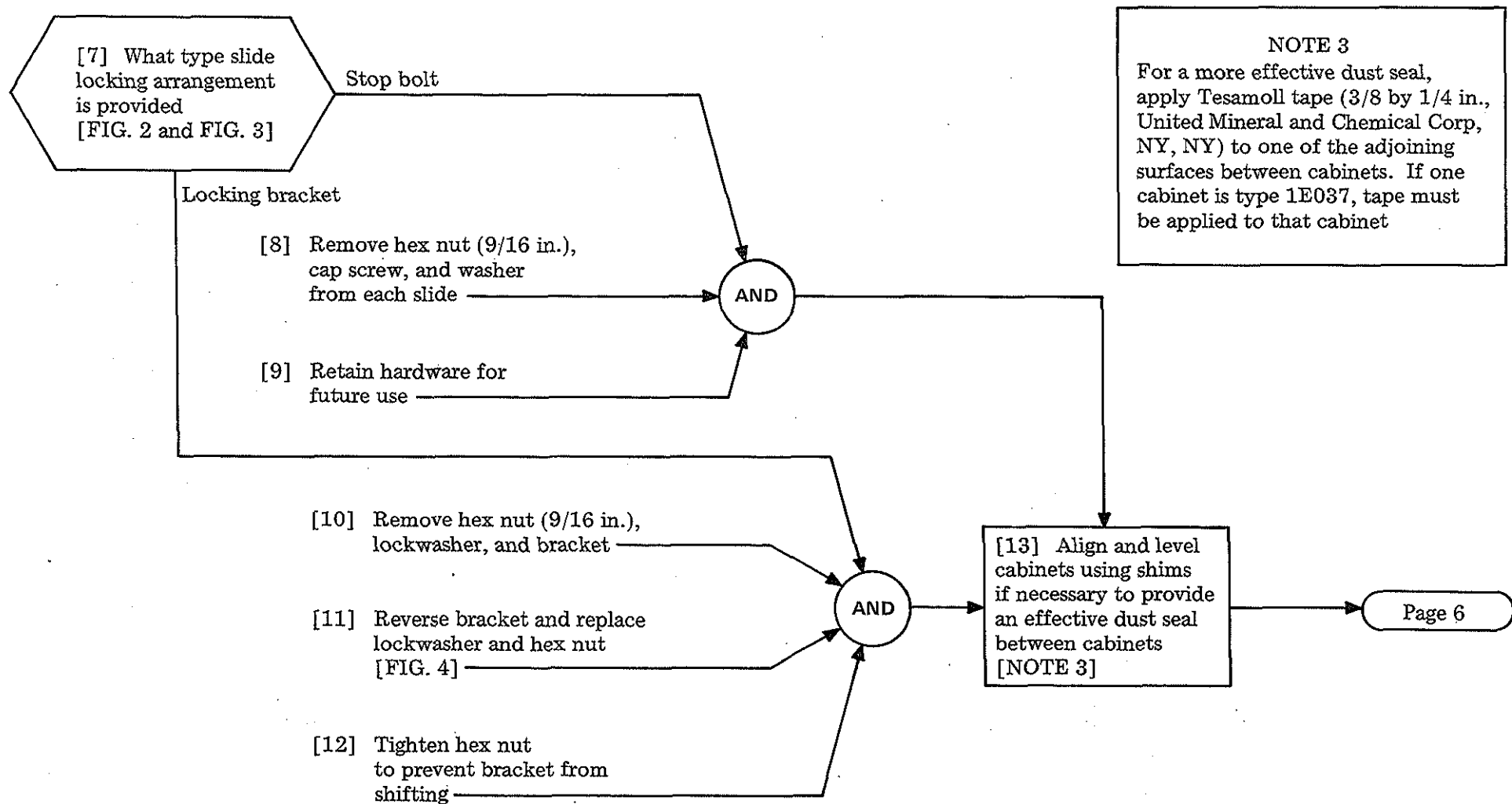


FIG. 4

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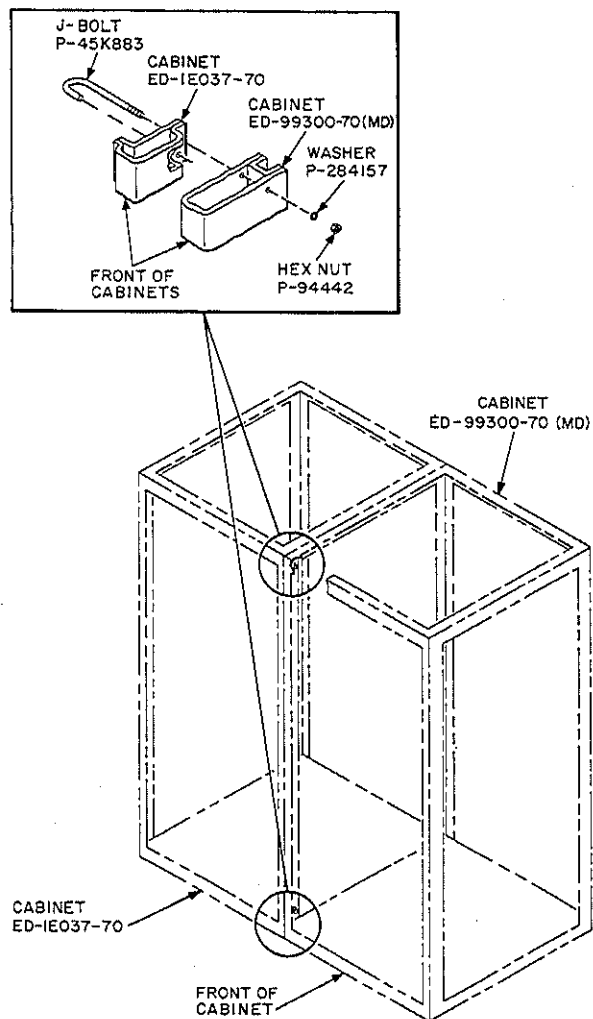


FIG. 5 — Bolting an ED-1E037-70 and an ED-99300-70 Cabinet Together

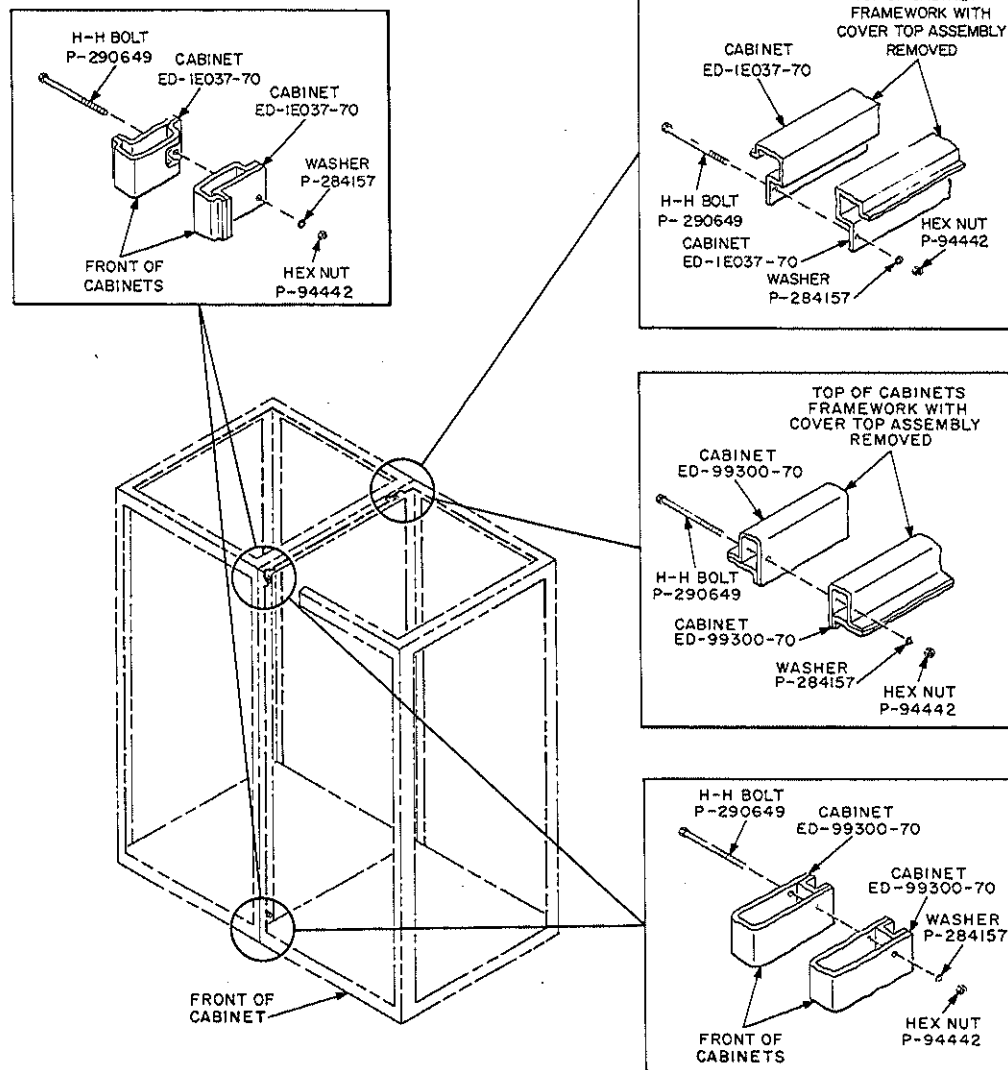
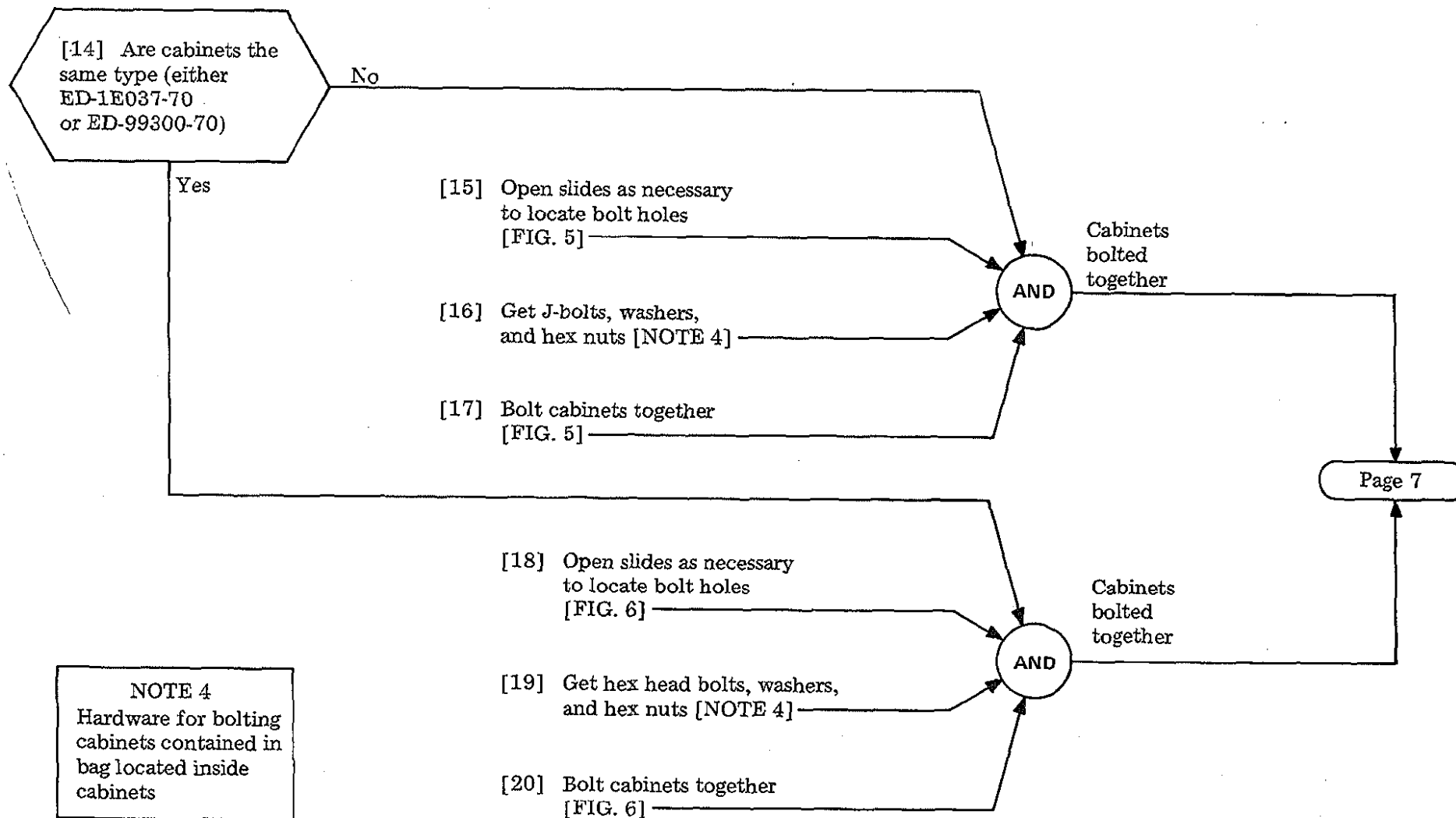
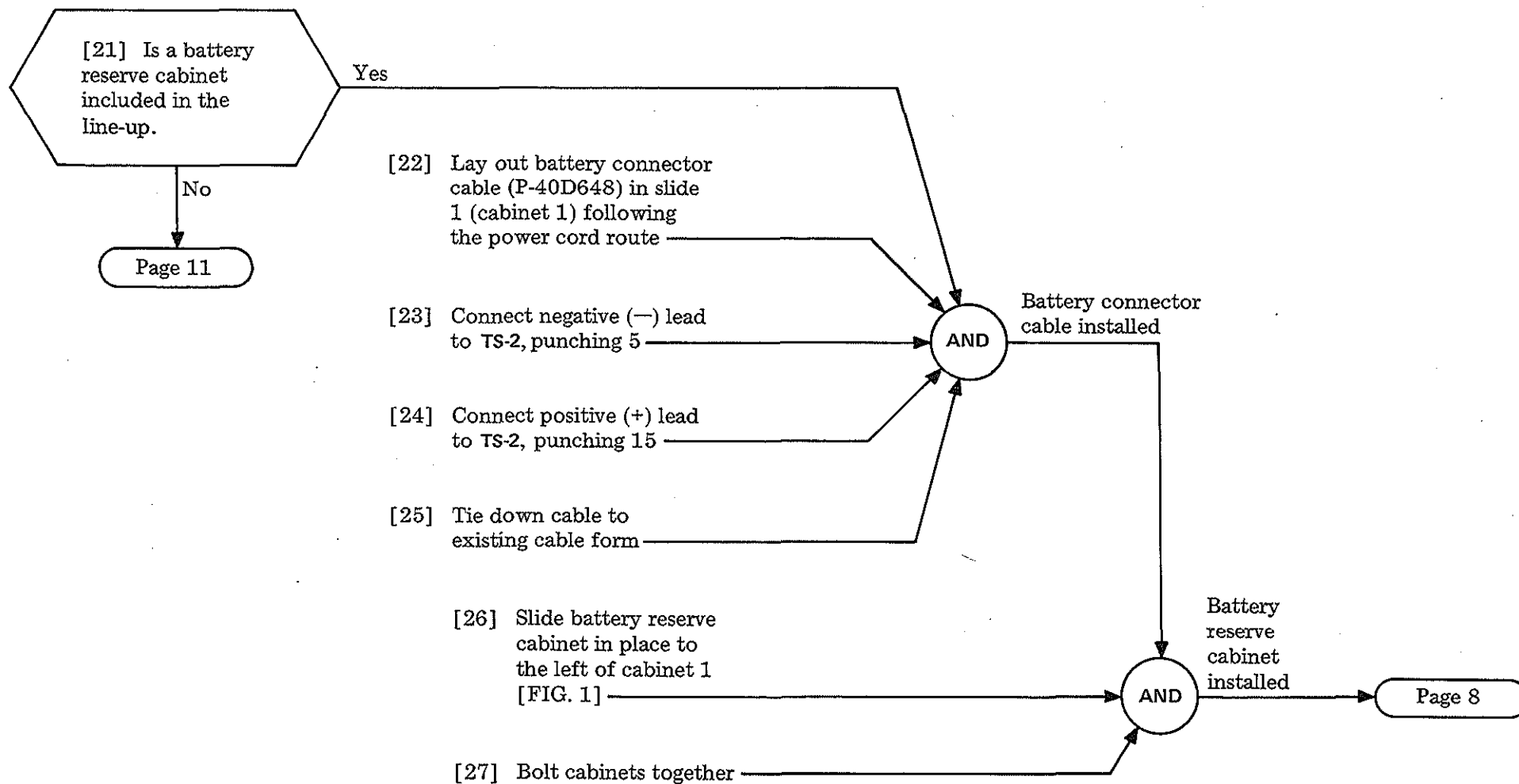


FIG. 6 — Bolting Two Like Cabinets Together





[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]

AND

Batteries installed and connected

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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

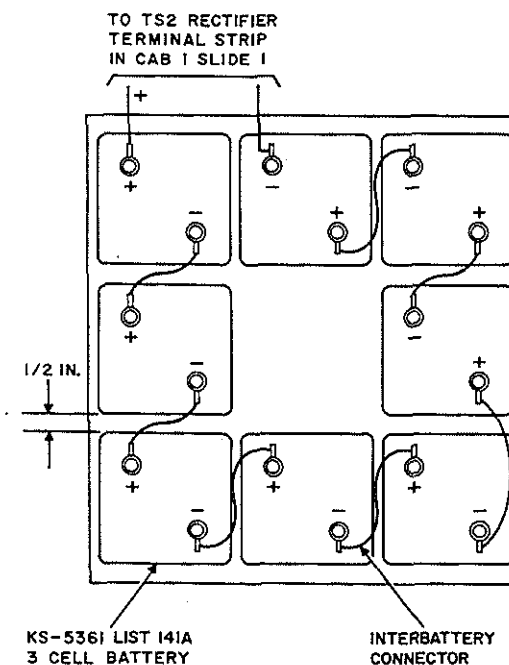


FIG. 7

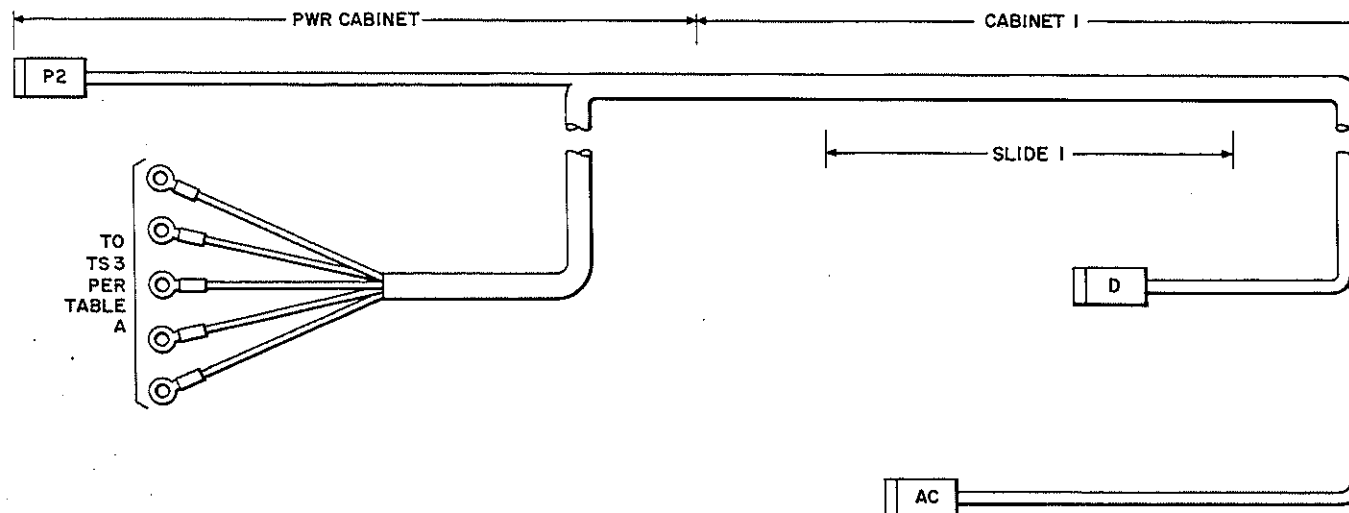


FIG. 8

[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

Page 11

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

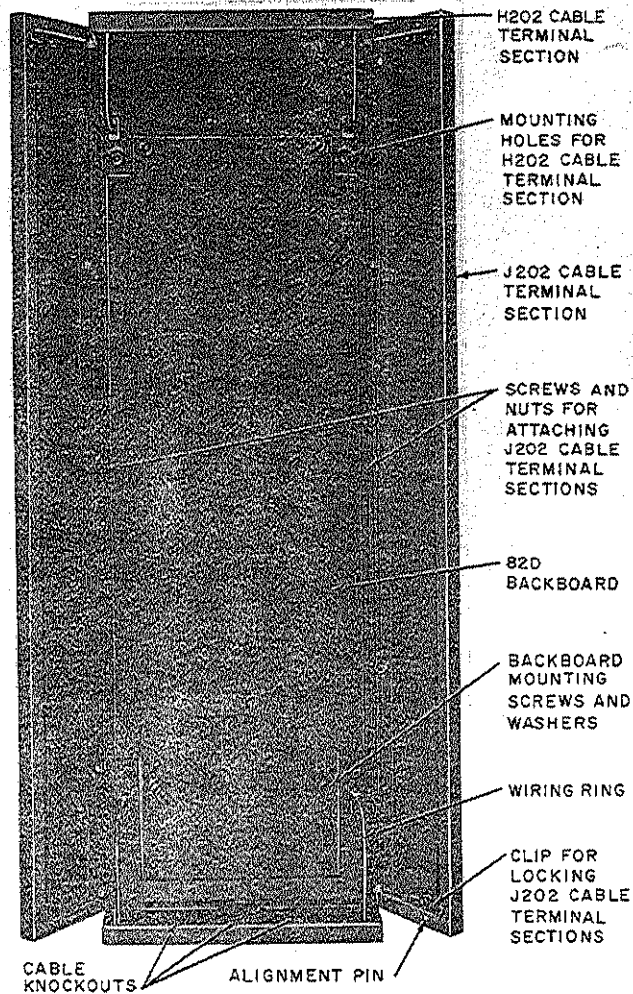


FIG. 9 – Cable Terminal Sections
J202 and H202 Installed

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)

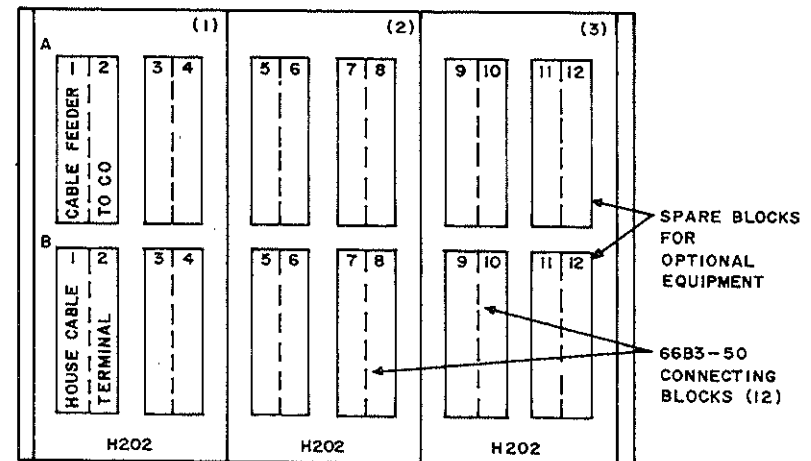
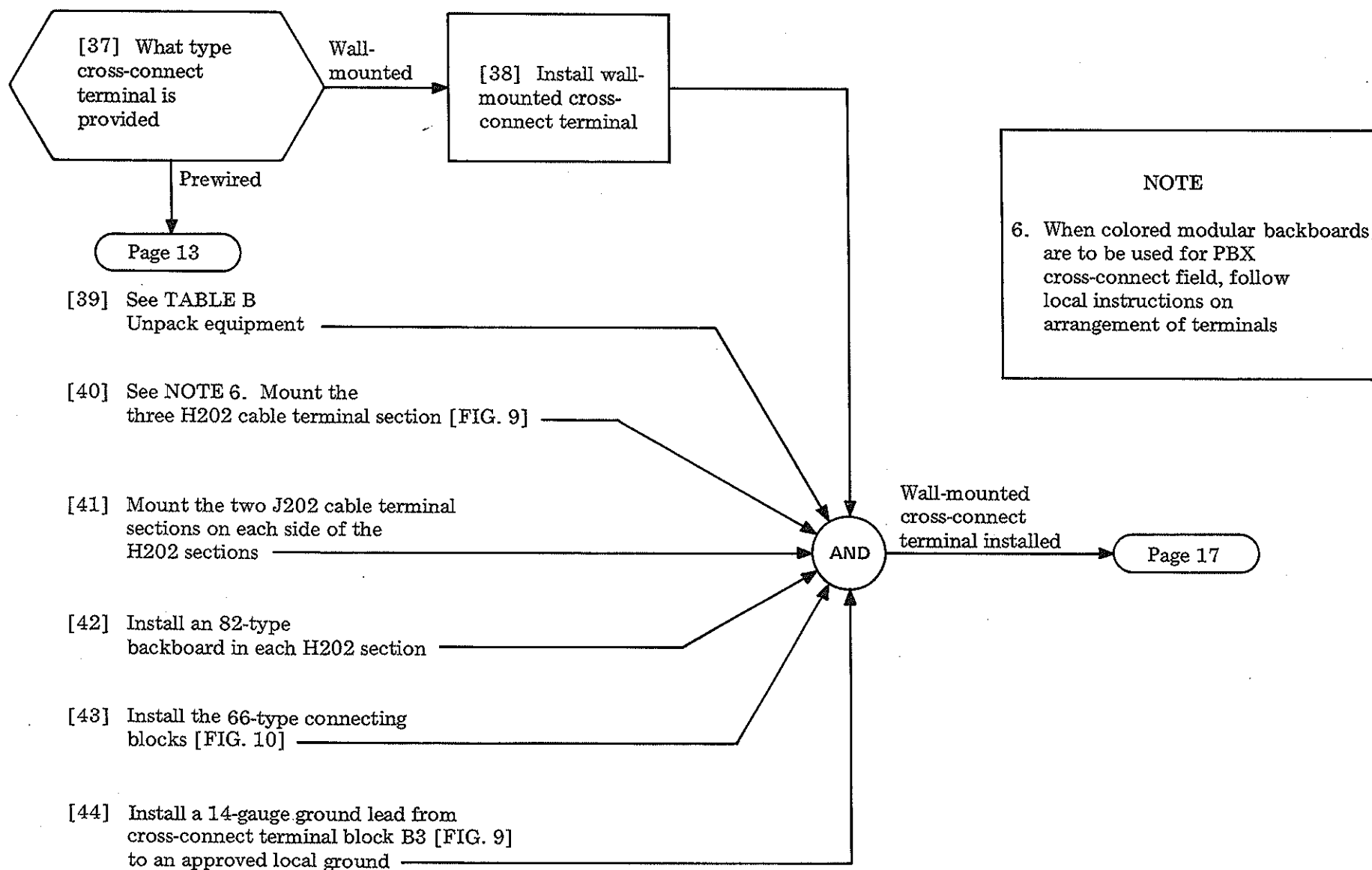


FIG. 10



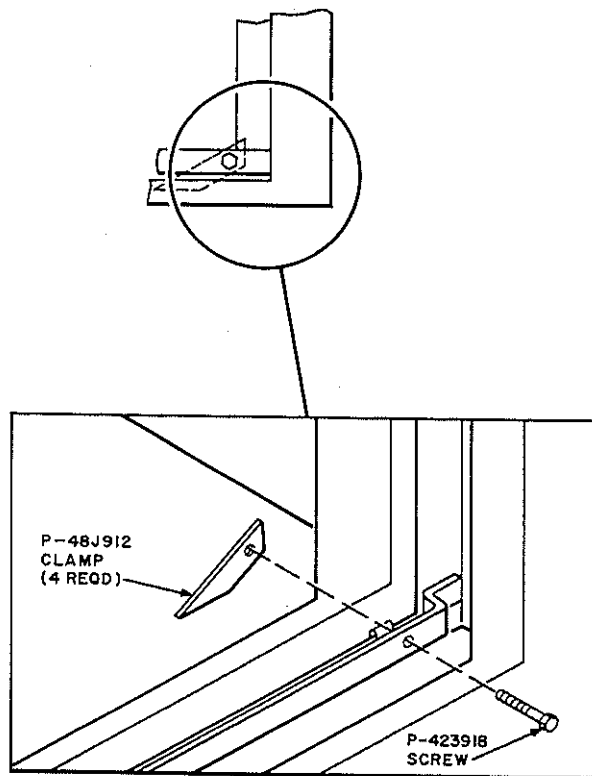


FIG. 11 — Cabinet ED-99300-70

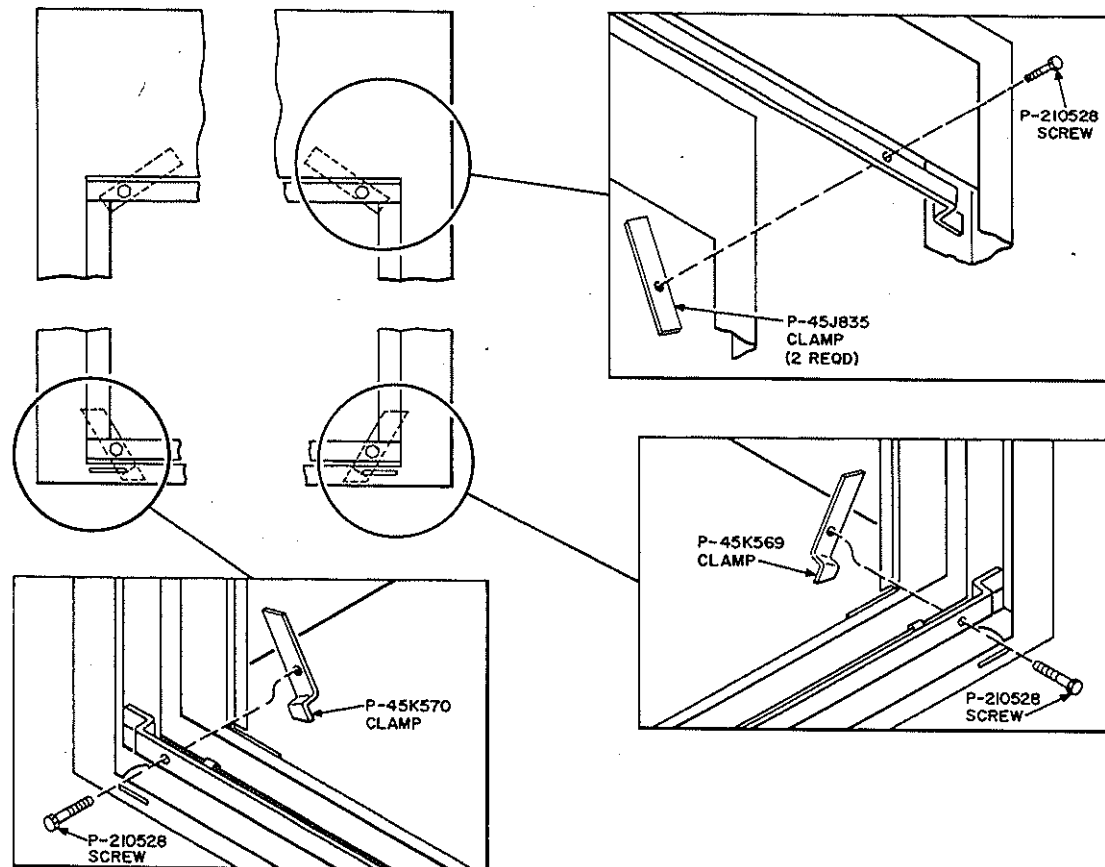
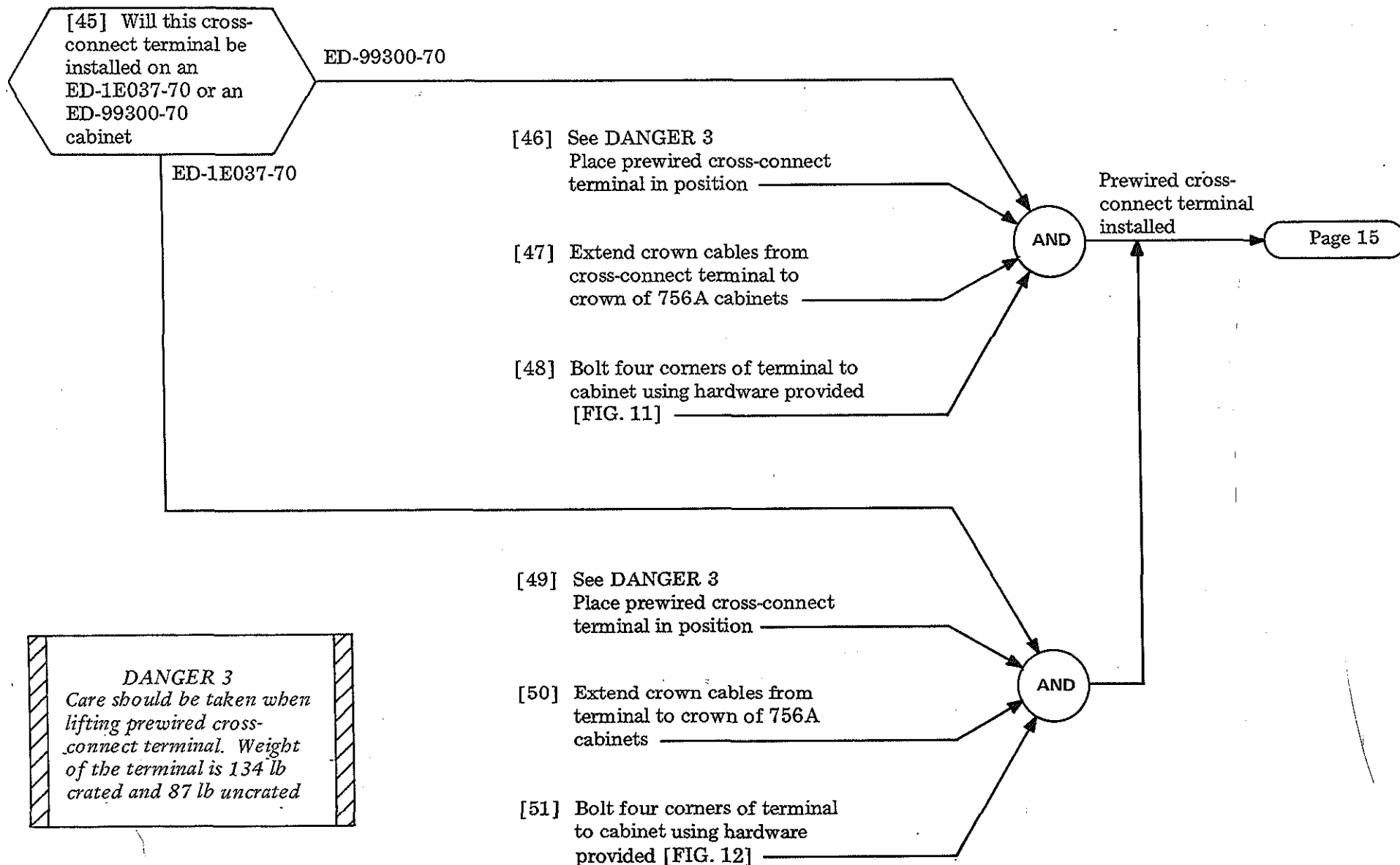


FIG. 12 — Cabinet ED-1E037-70



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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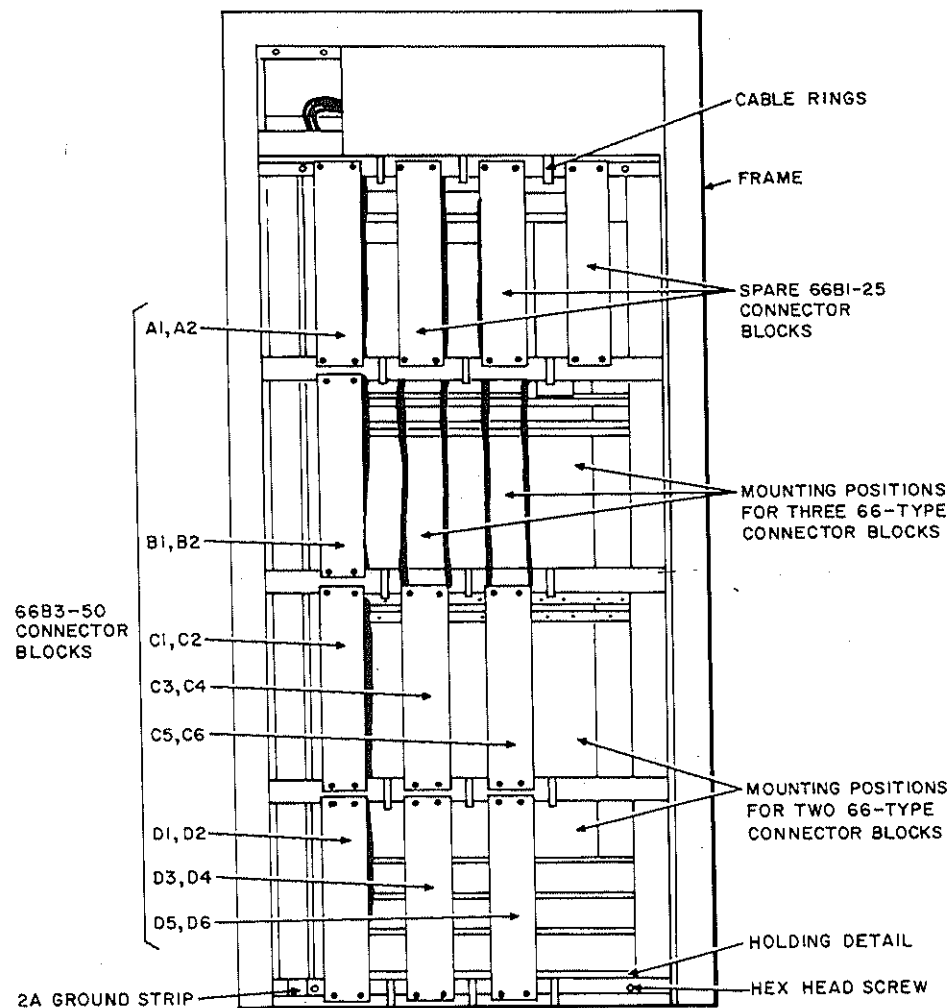
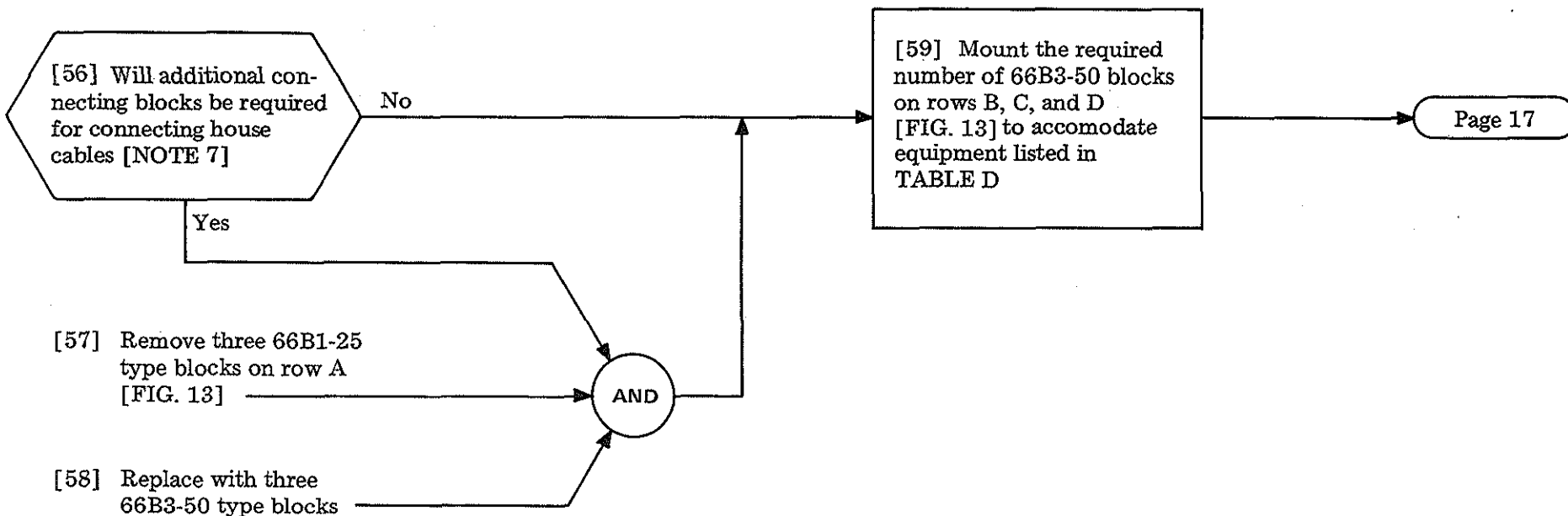


FIG. 13



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

[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]

AND

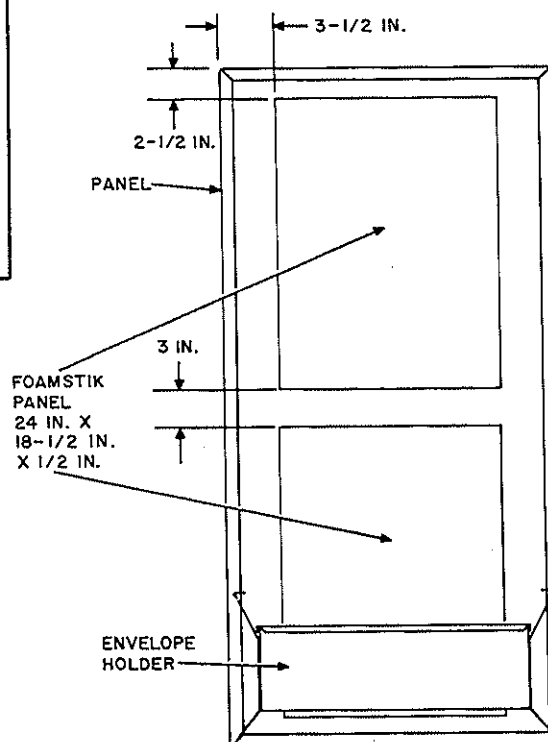
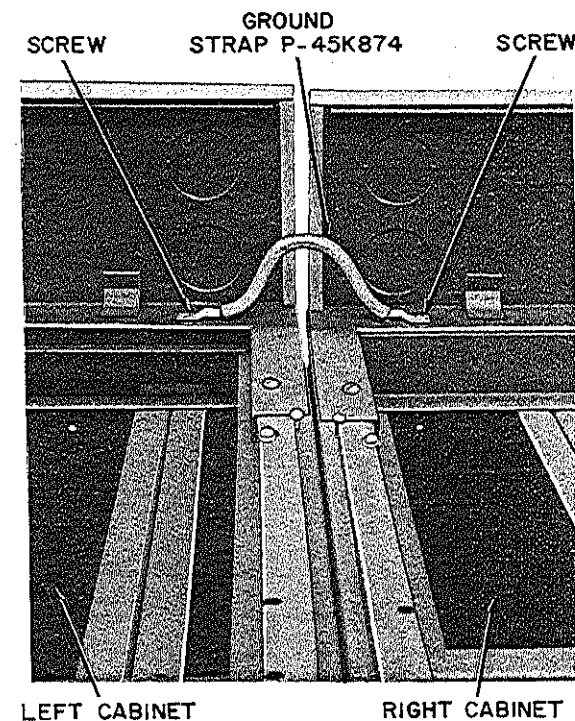
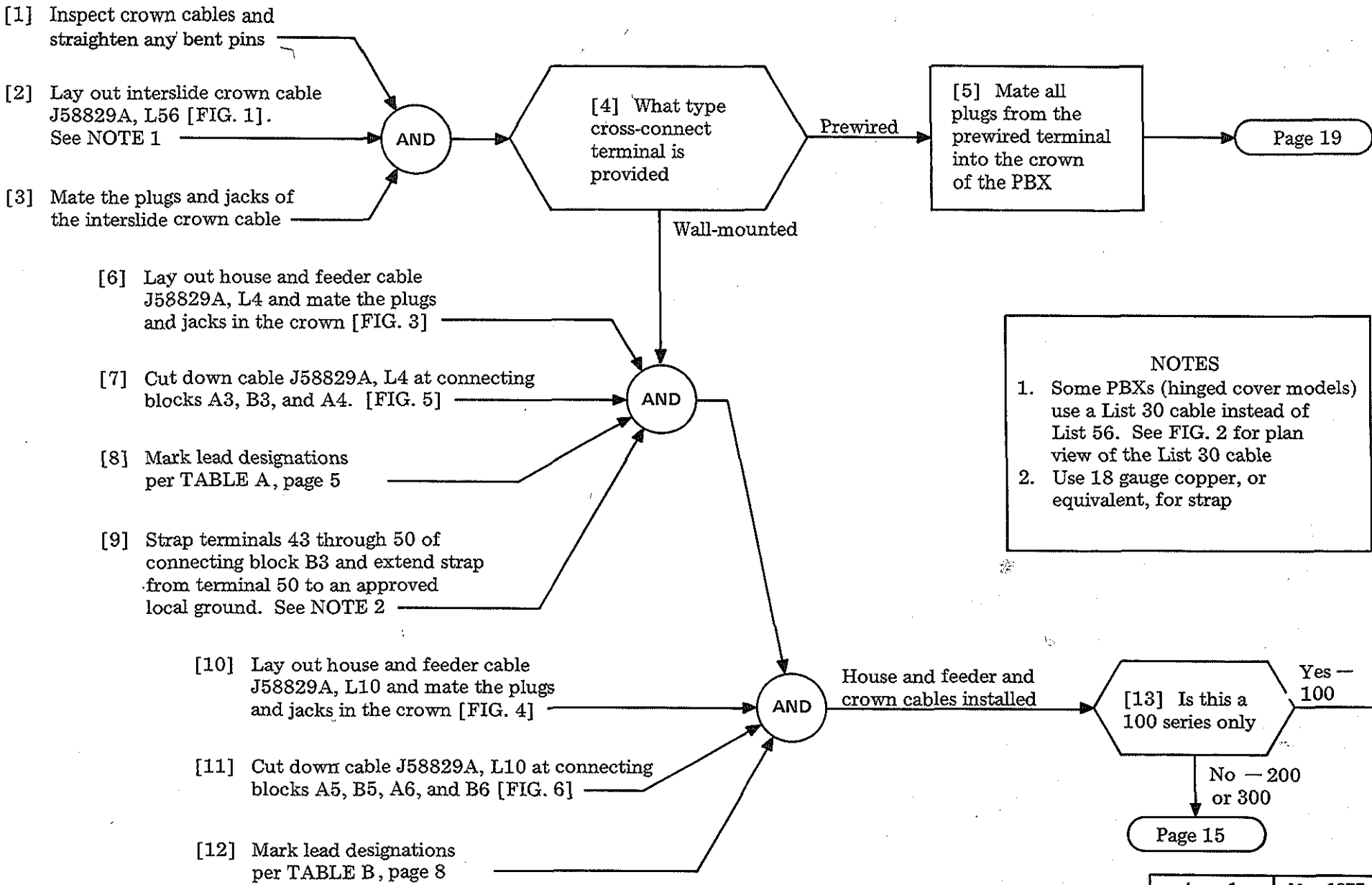


FIG. 15



CABINETS WITH COVER
TOP ASSEMBLY REMOVED

FIG. 14



INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

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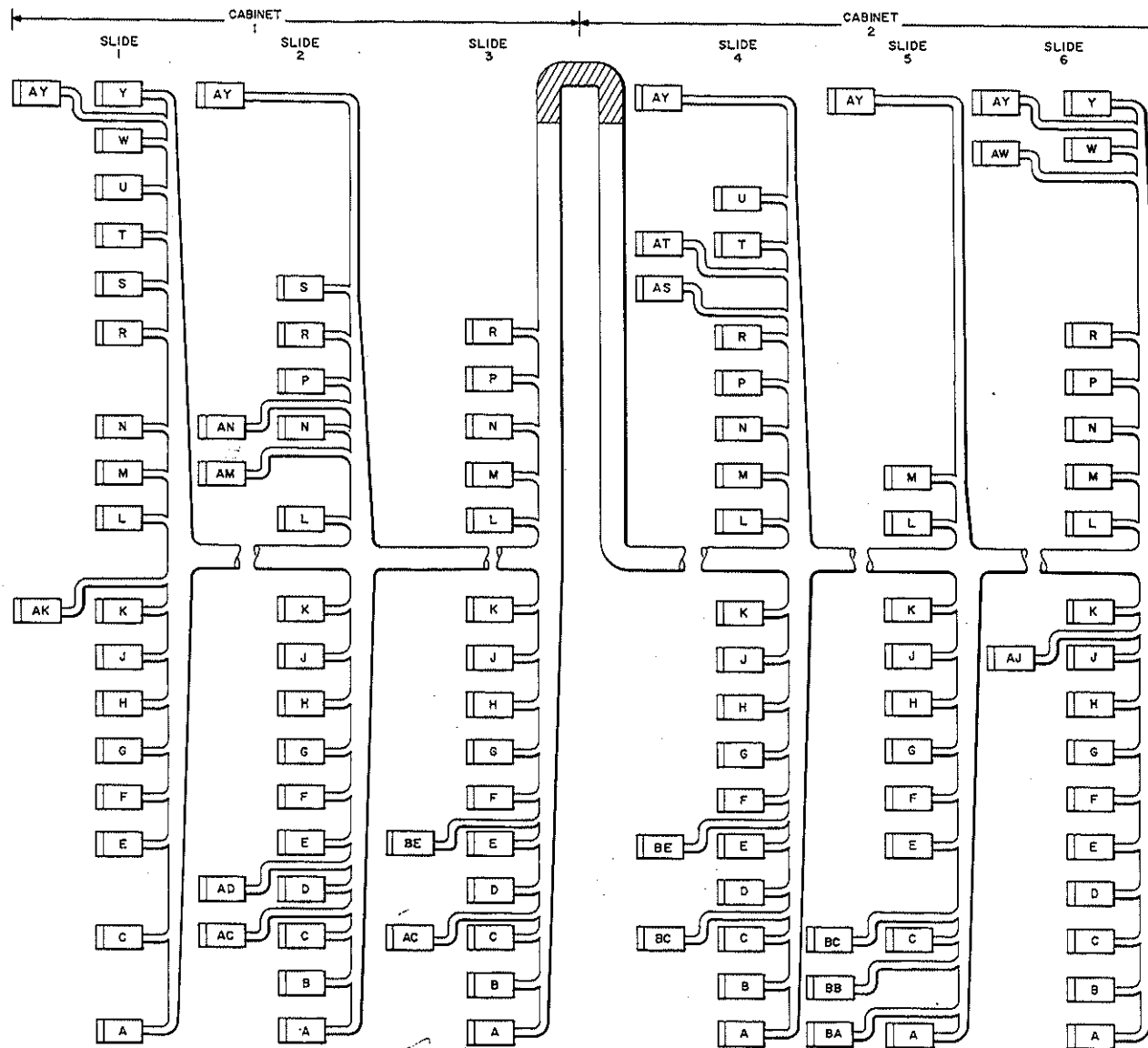


FIG. 1

INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

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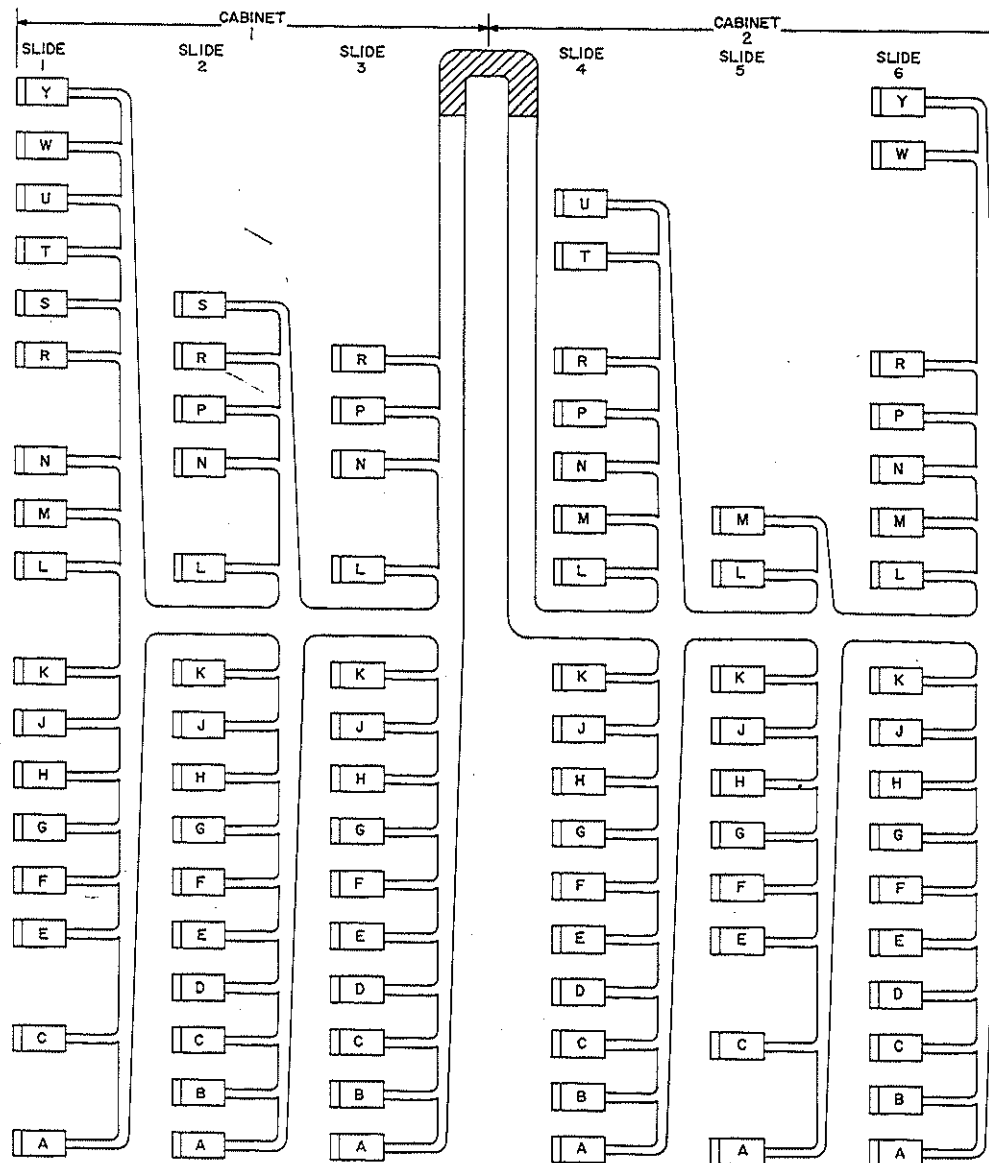


FIG. 2

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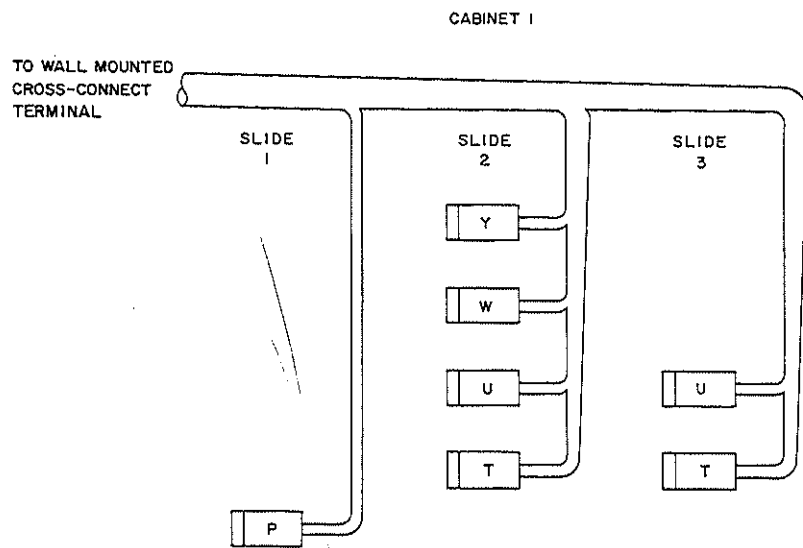


FIG. 3

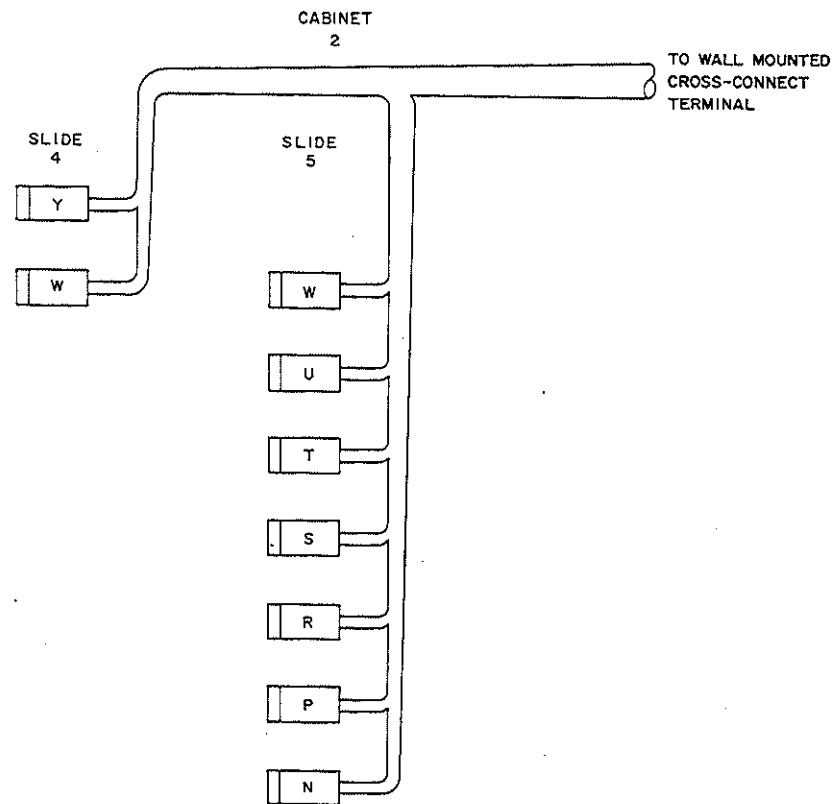


FIG. 4

INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

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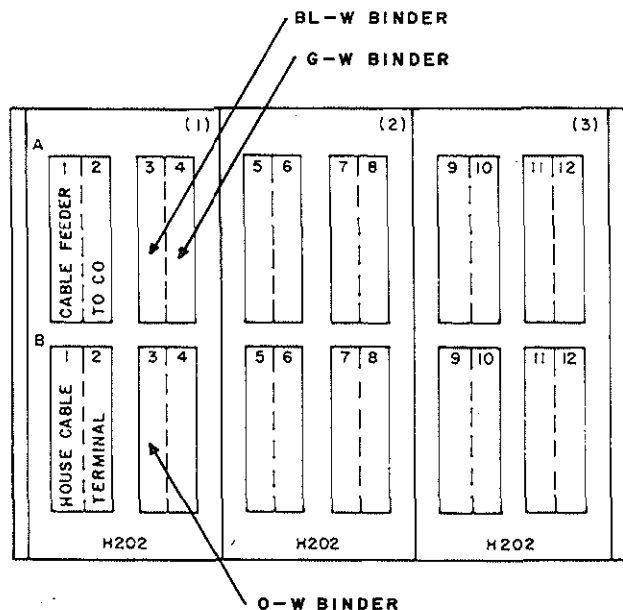


FIG. 5

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

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TABLE A (Cont)

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

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TABLE A (Cont)

O - W BINDER - CONN BLOCK B3 (Cont)	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE
	T21 R21 T22 R22 T23	V-BL BL-V V-O O-V V-G	TRLB AP1	Atnd Alarm Spare
	R23 T24 R24 T25 R25	G-V V-BR BR-V V-S S-V	AP8	Apparatus ground
G - W BINDER - CONNECTING BLOCK A4	T1 R1 T2 R2 T3	W-BL BL-W W-O O-W W-G	TR10 TR9 TR8 T T(A)	External Traffic Register Spare Sta Cont Conf - * Atnd Cont Conf - **
	R3 T4	G-W W-BR	R R(A) SL MON 1 TL(A)	Sta Cont Conf - * Atnd Cont Conf - ** Sta Cont Conf - * Atnd Cont Conf - **
	R4 T5 R5	BR-W W-S S-W	MON 2 SL(A) ACA (B) SL1(B)	Sta Cont Conf - * Atnd Cont Conf - ** Atnd Cont Conf - ** Atnd Cont Conf - **
	T6 R6 T7 R7 T8	R-BL BL-R R-O O-R R-G	S TL1(B) ACA(A) TR7 TR6 TR5	Sta Cont Conf - * Atnd Cont Conf - ** Atnd Cont Conf - ** External Traffic Register
	R8 T9 R9 T10 R10	G-R R-BR BR-R R-S S-R	TR4 TR3 TR2 TR1 TR BAT.	

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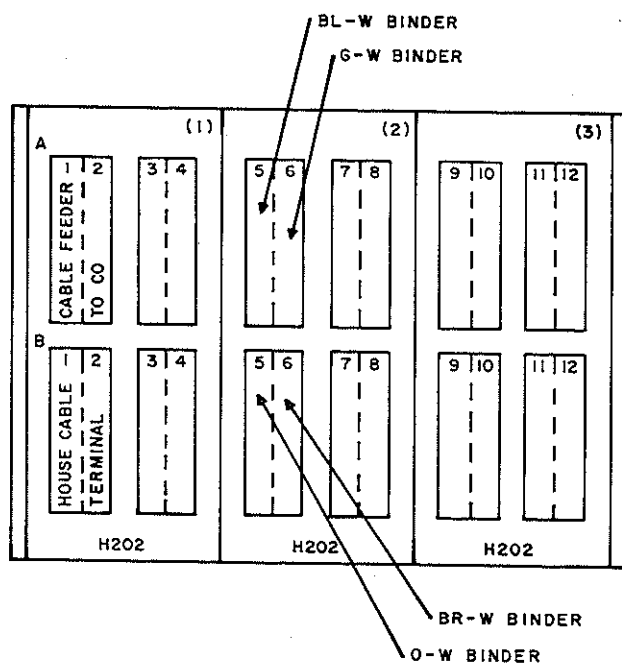


FIG. 6

TABLE B				
100-PAIR HOUSE AND FEEDER CABLE J58829A, L10				
BL-W BINDER - CONNECTING BLOCK A5	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE
	T1 R1 T2 R2 T3	W-BL BL-W W-O O-W W-G	STA 6 0	To Stations 60 - 74 and Cord Switchboard when provided
	R3 T4 R4 T5 R5	G-W W-BR BR-W W-S S-W	6 5	
	T6 R6 T7 R7 T8	R-BL BL-R R-O O-R R-G		
	R8 T9 R9 T10 R10	G-R R-BR BR-R R-S S-R		
	T11 R11 T12 R12 T13	BK-BL BL-BK BK-O O-BK BK-G	7 0	
	R13 T14 R14 T15 R15	G-BK BK-BR BR-BK BK-S S-BK		

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TABLE B (Cont)					
	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG		USE
BL - W BINDER -- CONNECTING BLOCK A5 (Cont)	T16 R16 T17 R17 T18	Y-BL BL-Y Y-O O-Y Y-G	STA 7 5		To Stations 75 - 79 and Cord Switchboard when provided
	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		A T N D T R K 0	Cord Switchboard
					1st Telephone Console ^(TL) or Cord Swbd ^(TL) ^(SL) ^(BL)
					2nd Telephone Console
					1st and 2nd Telephone Consoles and Key Telephone Set
					Key Telephone Set
					556A Cord Switchboard ^(ON) ^(A) 608 Cord Switchboard ^(SL) ^(A)
O - W BINDER -- CONN BLOCK B5	T1 R1 T2 R2 T3	W-BL BL-W W-O O-W W-G	T R TL1 or TL SL1 or BL TL2	A T N D T R K 1	Cord Switchboard
					1st Telephone Console ^(TL) ^(SL) or Cord Swbd ^(TL) ^(BL)
					2nd Telephone Console
					1st and 2nd Telephone Consoles and Key Telephone Set
					Key Telephone Set
					556A Switchboard ^(ON) ^(A) or 608 Switchboard ^(SL) ^(A)

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TABLE B (Cont)					
O-W BINDER - CONNECTING BLOCK B5 (Cont)	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG		USE
	T6 R6 T7 R7 T8	R-BL BL-R R-O O-R R-G	T R TL1 or TL SL1 or BL TL2	A T N D	Cord Switchboard 1st Telephone Console ^(TL1) (SL1) Cord Swbd ^(TL) (BL)
	R8 T9 R9 T10 R10	G-R R-BR BR-R R-S S-R	SL2 ACA SL3 ON or SL A	T R K 2	2nd Telephone Console 1st and 2nd Telephone Consoles and Key Telephone Set Key Telephone Set 556A Switchboard ^(ON) (A) or 608 Switchboard ^(SL) (A)
	T11 R11 T12 R12 T13	BK-BL BL-BK BK-O O-BK BK-G	TT TR ACG NTG AT1		1st Telephone Console or Key Telephone Set 1st Telephone Console, Cord Swbd, or Key Tel Set 1st and 2nd Telephone Consoles and Key Tel Set
	R13 T14 R14 T15 R15	G-BK BK-BR BR-BK BK-S S-BK	BT1 AT2 BT2 BZ NS*		1st Telephone Console 2nd Telephone Console 1st and 2nd Tel Console, 556A Swbd, and Key Tel Set Night Key or AP Ground
	T16 R16 T17 R17 T18	Y-BL BL-Y Y-O O-Y Y-G	H RC ARB1 ARB2 STT		556A Switchboard or Preceding Telephone Console Key Telephone Set 1st Telephone Console 2nd Telephone Console
	R18 T19 R19 T20 R20	G-Y Y-BR BR-Y Y-S S-Y	STR STT STR STT STR		RDT Trunk Auxiliary Ringers, when required for Trunk Equipments 3, 4, 8, and 9
	T21 R21	V-BL BL-V	STT 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)					
O - W BINDER - CONN BLOCK B5 (Cont)	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE	
	T22 R22 T23	V-O O-V V-G	TCW1 TCW2 TCW3	Externally Mounted Signaling Equipment for Remote Trunk Answering	
	R23 T24 R24 T25 R25	G-V V-BR BR-V V-S S-V	TCW4 RA BZ NA	1st Telephone Console or Key Tel Set	
				Key Telephone Set	
				608 Switchboard	
				Spare	
	T1 R1 T2 R2 T3	W-BL BL-W W-O O-W W-G	T R TL1 SL1 TL2	C O T R K O	To Central Office
					1st Telephone Console
					2nd Telephone Console
	R3 T4 R4 T5 R5	G-W W-BR BR-W W-S S-W	SL2 ACA L T R		1st and 2nd Telephone Consoles
					Key Telephone Set
G - W BINDER - CONNECTING BLOCK A6	T6 R6 T7 R7 T8	R-BL BL-R R-O O-R R-G	TL1 SL1 TL2 SL2 ACA	C O T R K	To Central Office
					1st Telephone Console
					2nd Telephone Console
					1st and 2nd Telephone Consoles
	R8 T9 R9 T10 R10	G-R R-BR BR-R R-S S-R	L T R TL1 SL1	1	Key Telephone Set
				C O T R K	To Central Office
					1st Telephone Console
					2nd Telephone Console
					1st and 2nd Telephone Consoles
					Key Telephone Set
	T11 R11 T12 R12	BK-BL BL-BK BK-O O-BK	TL2 SL2 ACA L	2	

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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	To Central Office or Ringdown Tie Trunk
	R13	G-BK	R		
	T14	BK-BR	TL1	T R K	1st Telephone Console
	R14	BR-BK	SL1		
	T15	BK-S	TL2		2nd Telephone Console
	R15	S-BK	SL2		
	T16	Y-BL	ACA	3	1st and 2nd Telephone Consoles
	R16	BL-Y	L		Key Telephone Set
	T17	Y-O	T	C O	To Central Office or Ringdown Tie Trunk
	R17	O-Y	R		
	T18	Y-G	TL1	T R K	1st Telephone Console
	R18	G-Y	SL1		
	T19	Y-BR	TL2		2nd Telephone Console
	R19	BR-Y	SL2		
	T20	Y-S	ACA	4	1st and 2nd Telephone Consoles
	R20	S-Y	L		Key Telephone Set
	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		
	T23	V-G	TL2		2nd Telephone Console
	R23	G-V	SL2		
	T24	V-BR	ACA	5	1st and 2nd Telephone Consoles
	R24	BR-V	L		Key Telephone Set
	T25	V-S	T		To Central Office
	R25	S-V	R		

TABLE B (Cont)					
BR - W BINDER - CONNECTING BLOCK B6	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE	
	T1	W-BL	TL1	C	1st Telephone Console
	R1	BL-W	SL1	O	
	T2	W-O	TL2	T	
	R2	O-W	SL2	R	2nd Telephone Console
	T3	W-G	ACA	K	
				6	1st and 2nd Telephone Consoles
	R3	G-W	L		Key Telephone Set
	T4	W-BR	T	C	
	R4	BR-W	R	O	To Central Office
	T5	W-S	TL1	T	
	R5	S-W	SL1	R	1st Telephone Console
				K	
	T6	R-BL	TL2		2nd Telephone Console
	R6	BL-R	SL2		
	T7	R-O	ACA		1st and 2nd Telephone Consoles
	R7	O-R	L	7	
	T8	R-G	T		Key Telephone Set
				C	
	R8	G-R	R	O	To Central Office or Ringdown Tie Trunk
	T9	R-BR	TL1	T	
	R9	BR-R	SL1	R	1st Telephone Console
	T10	R-S	TL2	K	
	R10	S-R	SL2		2nd Telephone Console
	T11	BK-BL	ACA		1st and 2nd Telephone Consoles
	R11	BL-BK	L	8	
	T12	BK-O	T		Key Telephone Set
	R12	O-BK	R	C	
	T13	BK-G	TL1	O	To Central Office or Ringdown Tie Trunk
	R13	G-BK	SL1	T	1st Telephone Console
	T14	BK-BR	TL2	R	
	R14	BR-BK	SL2	K	2nd Telephone Console
	T15	BK-S	ACA		
	R15	S-BK	L	9	1st and 2nd Telephone Consoles
					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	Y-BL		Spares
	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		
	R21	BL-V		
	T22	V-O		
	R22	O-V		
	T23	V-G		
	R23	G-V		
	T24	V-BR		
	R24	BR-V		
	T25	V-S		
	R25	S-V		

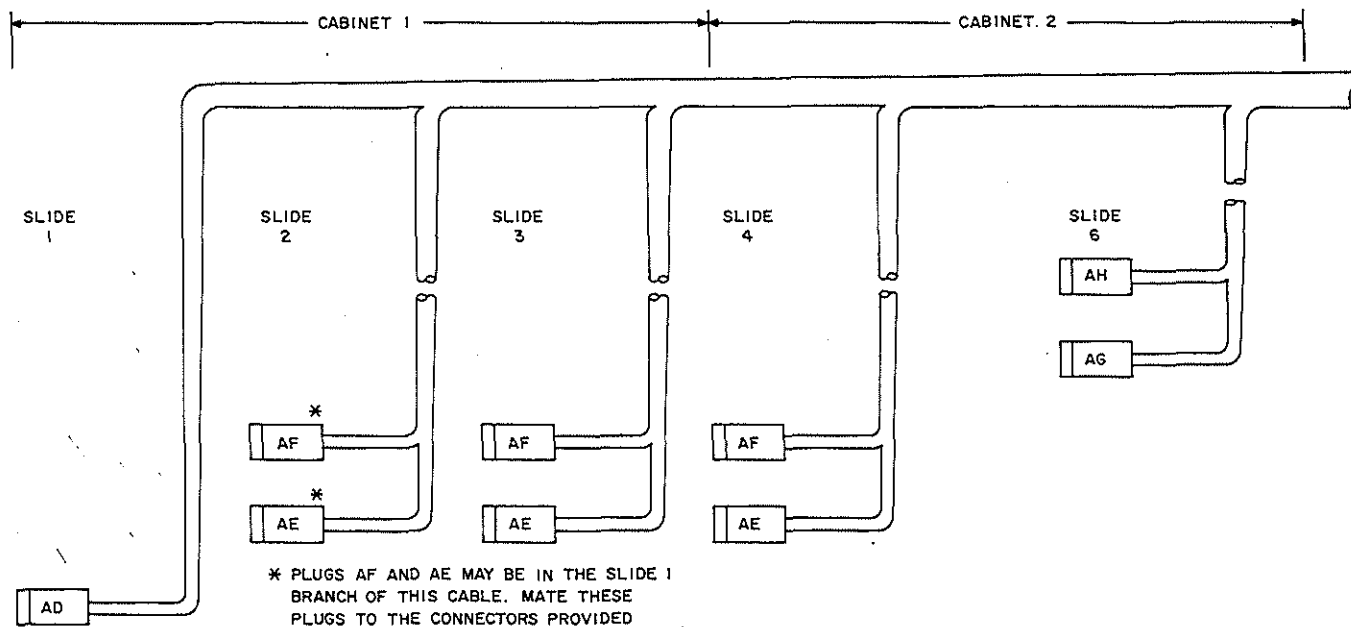
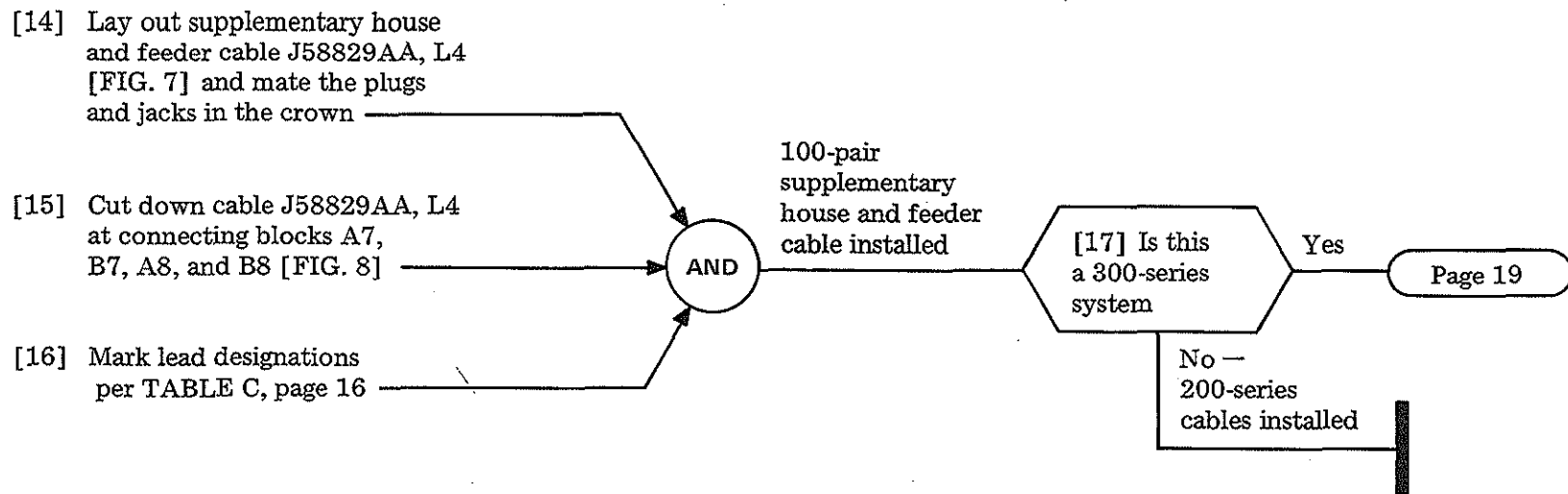


FIG. 7

INSTALL CROWN, HOUSE AND FEEDER, AND SUPPLEMENTARY CABLES

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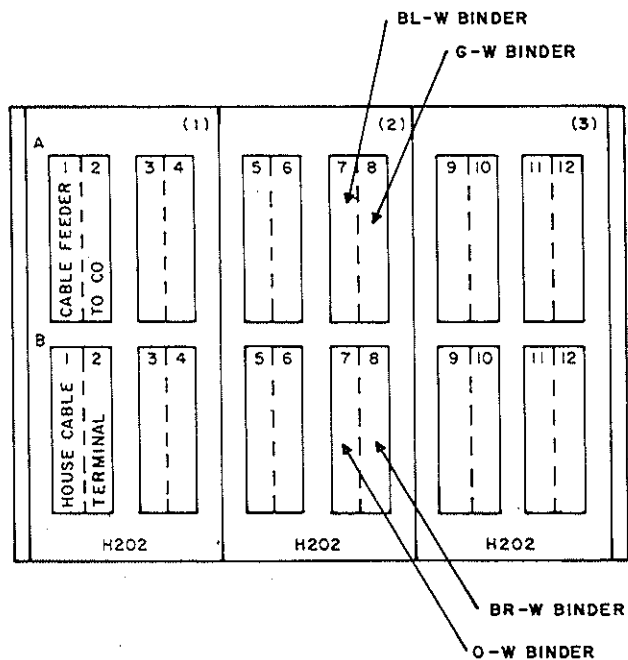


FIG. 8

TABLE C				
100-PAIR SUPPLEMENTARY HOUSE AND FEEDER CABLE J58829AA, L4				
BL-W BINDER - CONNECTING BLOCK A7	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE
	T1 R1 T2 R2 T3	W-BL BL-W W-O O-W W-GR	S S1 L2 BAT. L2 GRD S	Make-busy key and lamp for station (s) arranged for single-digit dialing
	R3 T4 R4 T5 R5	GR-W W-BR BR-W W-S S-W	S1 L3 BAT. L3 GRD	
	T6 R6 T7 R7 T8	R-BL BL-R R-O O-R R-GR		Spare
	R8 T9 R9 T10 R10	GR-R R-BR BR-R R-S S-R		
	T11 R11 T12 R12 T13	BK-BL BL-BK BK-O O-BK BK-GR	BL20 BL21 BL22 BL23 BL24	
	R13 T14 R14 T15 R15	GR-BK BK-BR BR-BK BK-S S-BK	BL25 BL26 BL27 BL28 BL29	Busy-lamp leads to 4-type telephone console(s)
	T16 R16 T17 R17 T18	Y-BL BL-Y Y-O O-Y Y-GR	BL30 BL31 BL32 BL33 BL34	
	R18 T19 R19 T20 R20	GR-Y Y-BR BR-Y Y-S S-Y	BL35 BL36 BL37 BL38 BL39	

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

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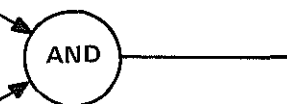
TABLE C (Cont)									
G-W BINDER - CONNECTING BLOCK A8 (Cont)					BR-W BINDER - CONNECTING BLOCK B8 (Cont)				
	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE		CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG	USE
	T11	BK-BL	T2	DSS leads to first 4-type telephone console		T6	R-BL	B20	Lamp battery leads to first 4-type 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	Spare
	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	Lamp battery leads to second 4-type tele- phone console
	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	Spare
	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	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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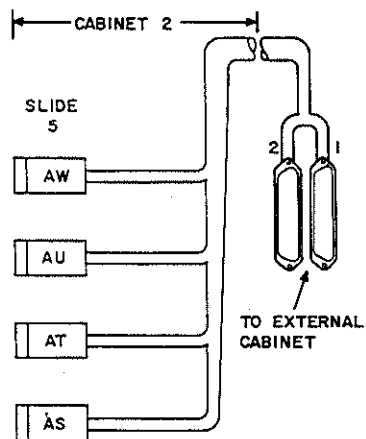


FIG. 9

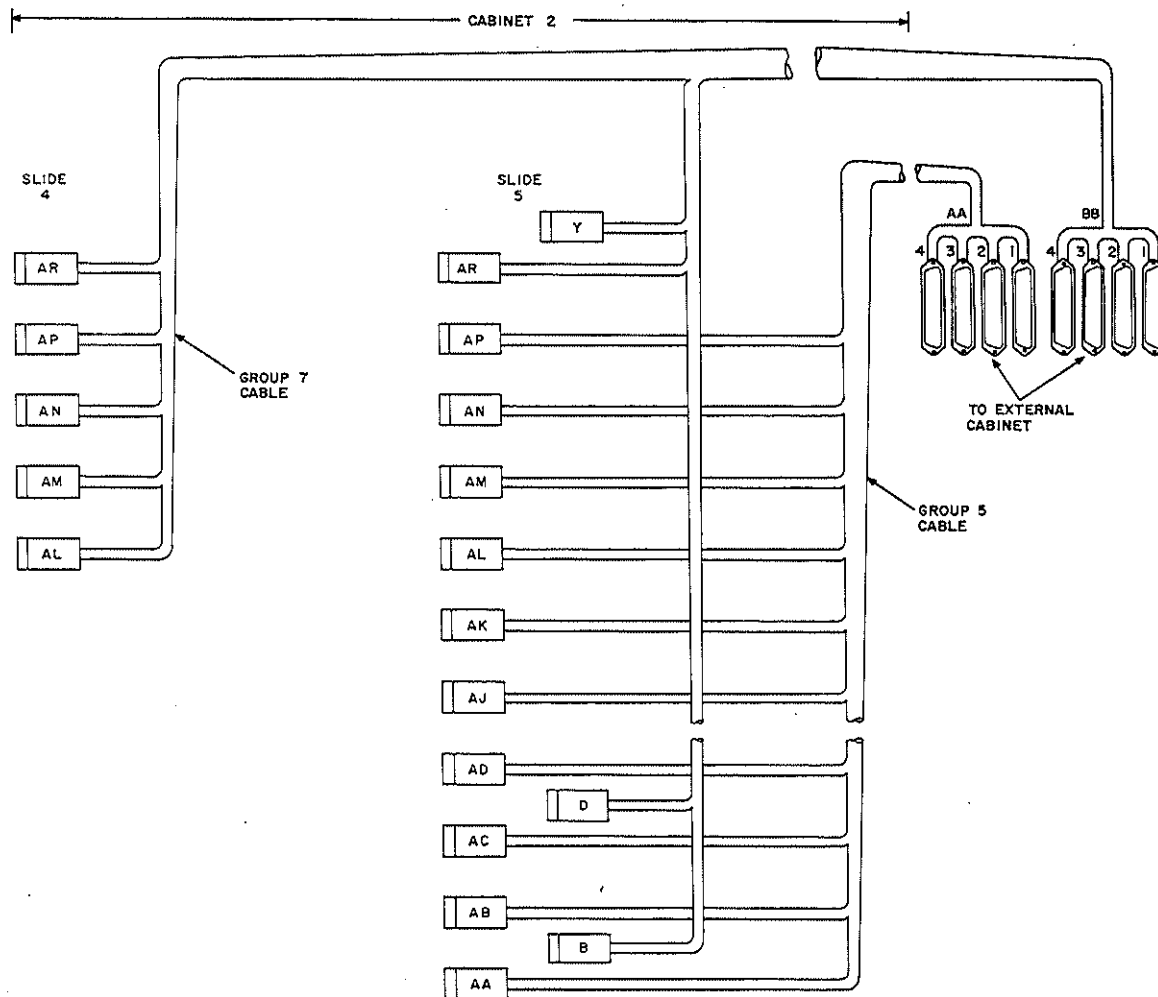
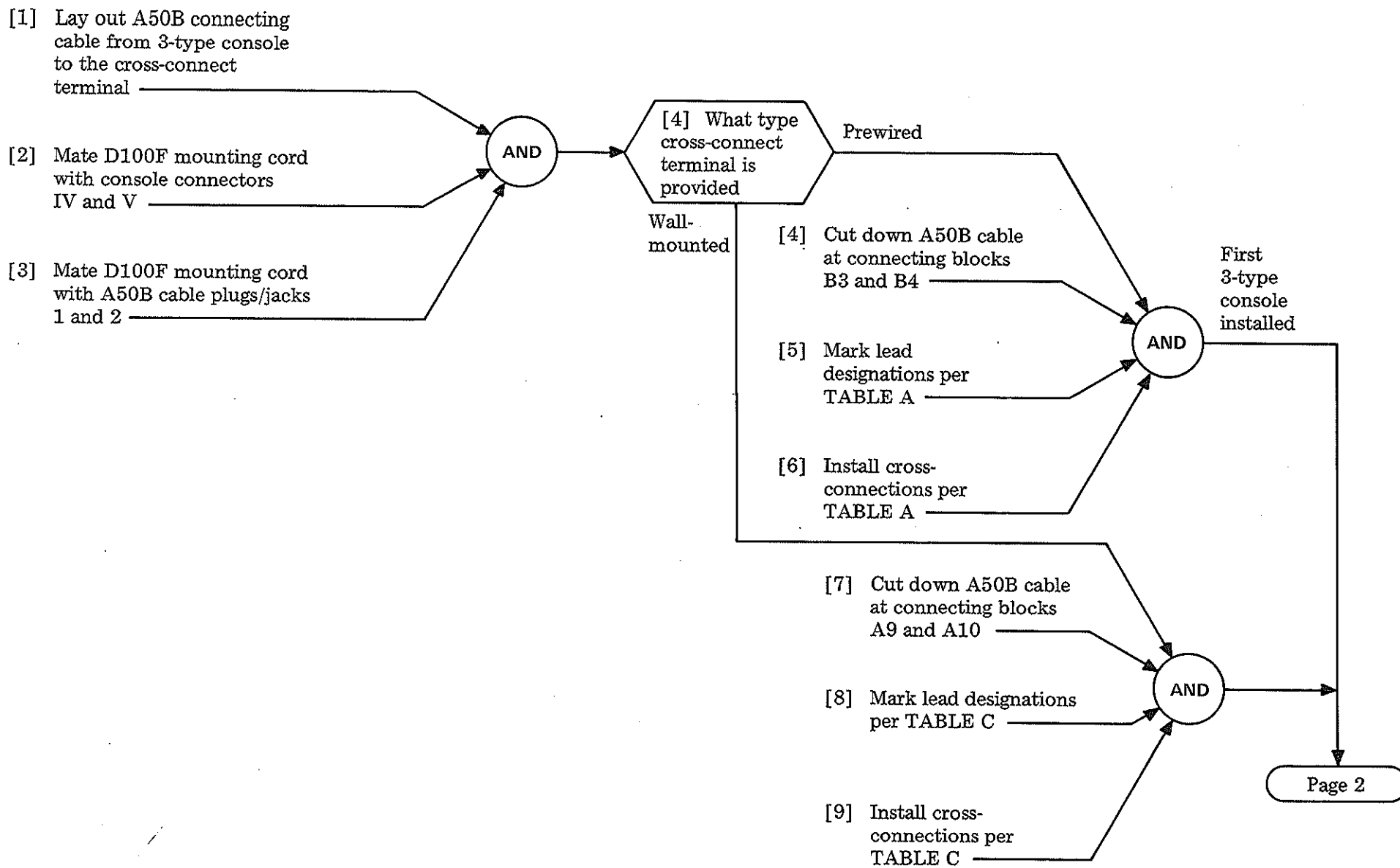


FIG. 10

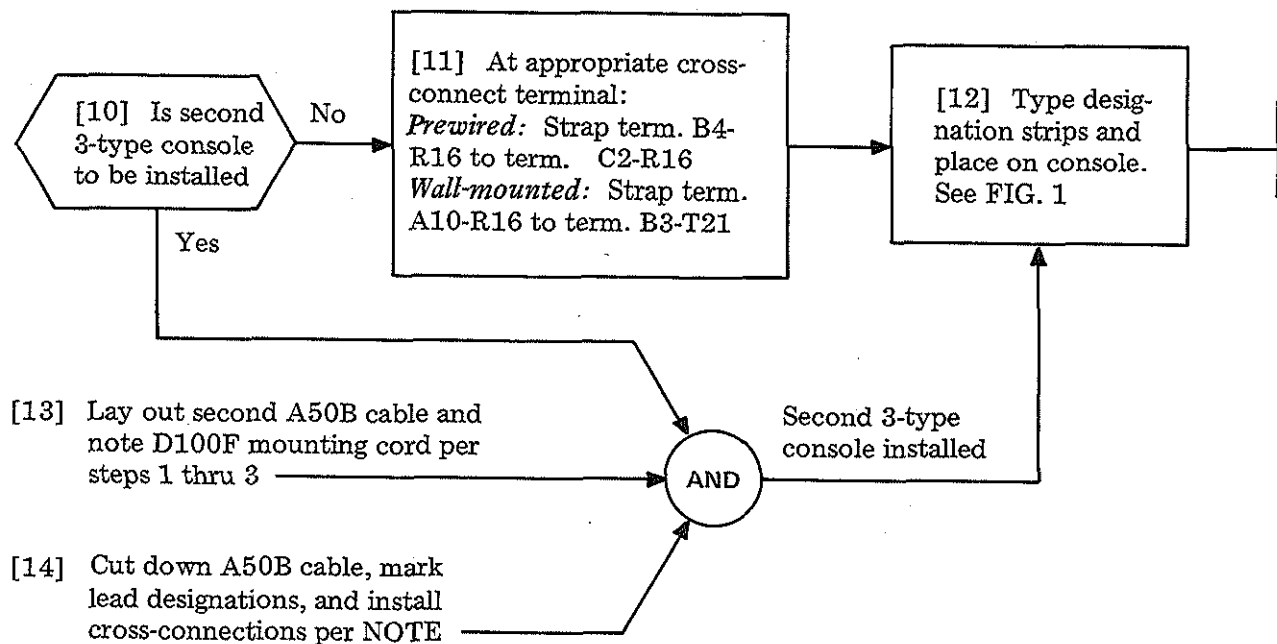
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INSTALL 3-TYPE CONSOLE EQUIPMENT

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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

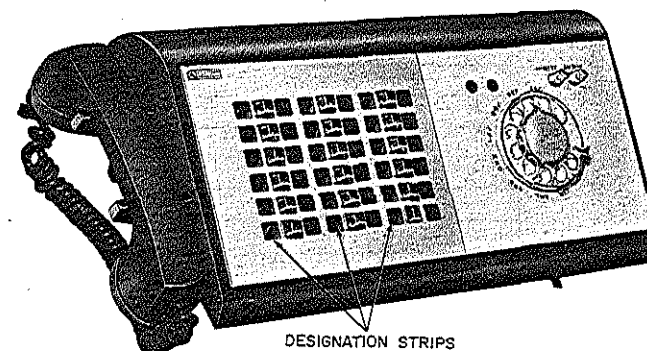


FIG. 1

TABLE A FIRST 3-TYPE CONSOLE – PREWIRED CROSS-CONNECT TERMINAL DATA											
CONSOLE CABLE A50B			CROSS-CONNECT TO		CONSOLE CABLE A50B			CROSS-CONNECT TO			
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.
	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		

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TABLE A (Cont)										
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.
BL-W BINDER – CONNECTING BLOCK B3	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			
					O-W BINDER – CONNECTING BLOCK B4					

* 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.

TABLE B
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.
	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			
	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

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

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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.
BL-W BINDER – CONNECTING BLOCK A9	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			
O-W BINDER – CONNECTING BLOCK A10										

* 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.

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.	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					

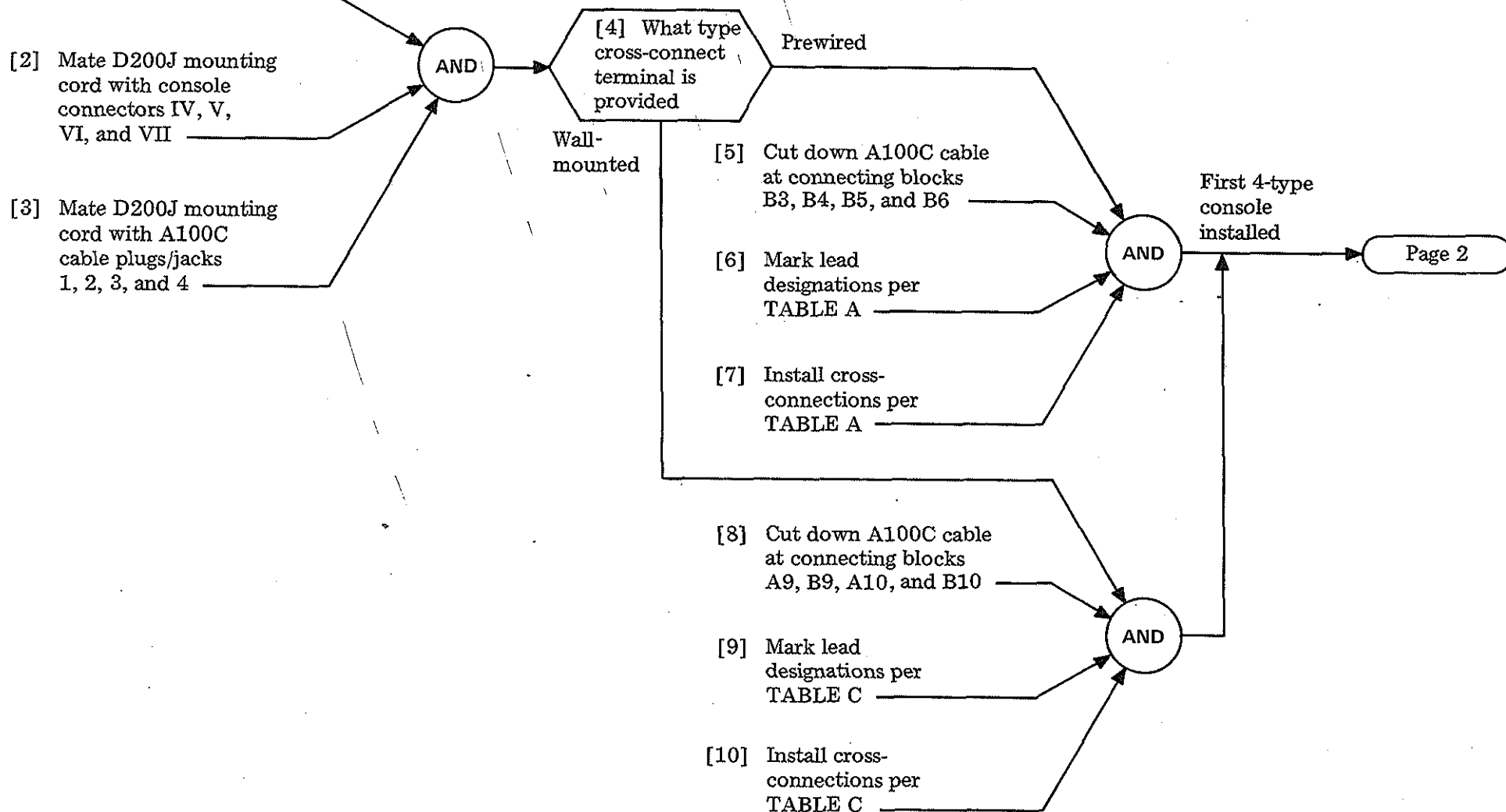
* Console T and R leads 10 thru 15 (cable pairs 16 thru 21) are used to pick up miscellaneous equipment requiring individual T and R leads.

† 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

[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



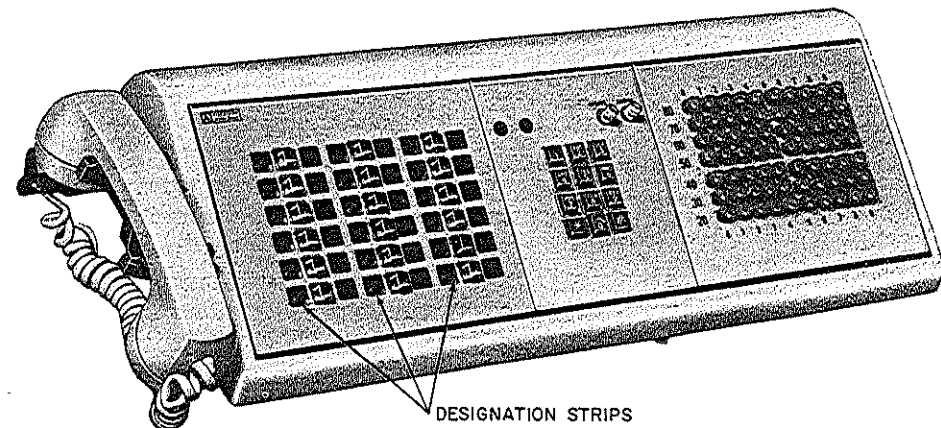
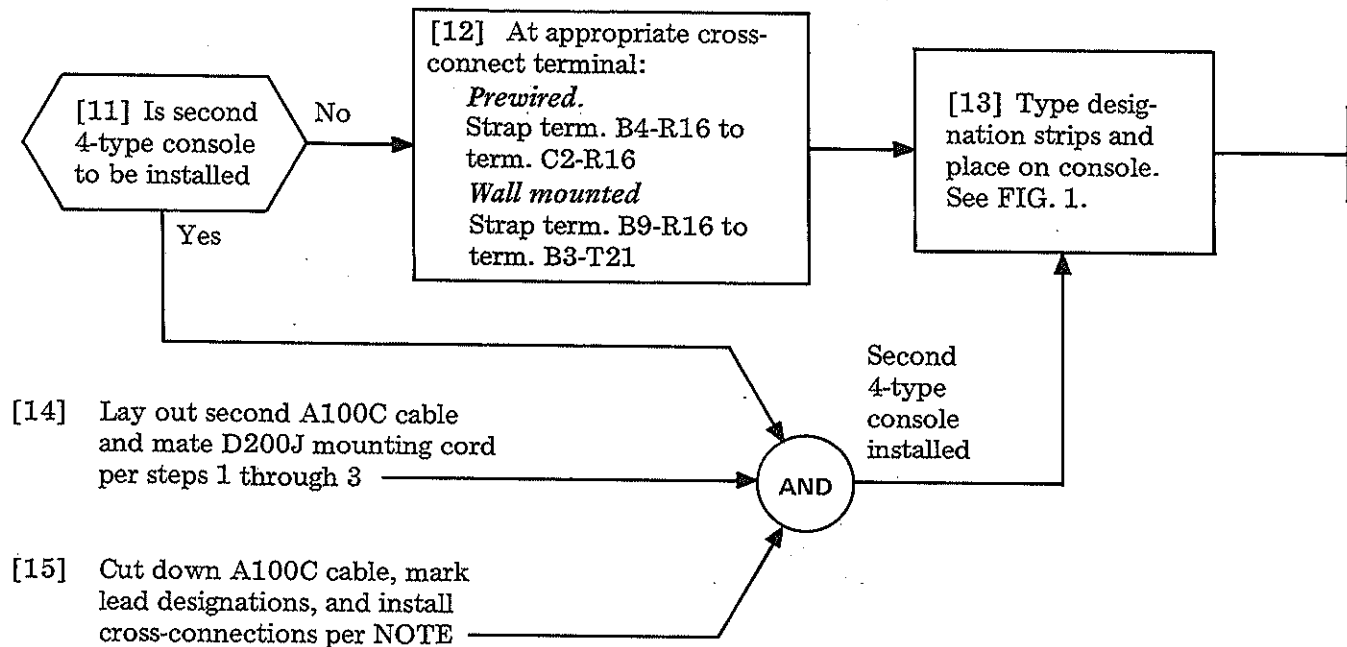


FIG. 1 — Designation strips (trunk call numbers)

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	
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.
	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	T11	BK-BL				
R11	BL-BK	ACA11		R11	R11	R11	BL-BK				
T12	BK-O	TL12		T12	T12	T12	BK-O	TRG	C2	T12	
R12	O-BK	ACA12		R12	R12	R12	O-BK				
T13	BK-G	TL13		T13	T13	T13	BK-G	TT	C2	T13	

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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.
BL-W BINDER – CONNECTING BLOCK B3	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			
					O-W BINDER – CONNECTING BLOCK B4					

* 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.

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.
	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		

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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	O-W BINDER – CONNECTING BLOCK B8	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			
	T7	R-O	TL7	C5	T4		T7	R-O	B20	C5	T14
	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	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	O-W BINDER – CONNECTING BLOCK B8	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	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.

TABLE B (Cont)
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.		
G-W BINDER — CONNECTING BLOCK C7	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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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.	
	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.

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	T1	W-BL				BR-W BINDER – CONNECTING BLOCK B10	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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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		
BR-W BINDER – CONNECTING BLOCK B10										

* 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	
BL-W BINDER – CONNECTION BLOCK A11	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	O-W BINDER – CONNECTION BLOCK B11	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	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					
	T7	R-O	TL7	↓	T23		T7	R-O	B20	B8	T11		
	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	
BL-W BINDER — CONNECTING BLOCK A11	CONN. BLOCK TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO..	O-W BINDER — CONNECTING BLOCK B11	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.

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		

INSTALL 4-TYPE CONSOLE EQUIPMENT

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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

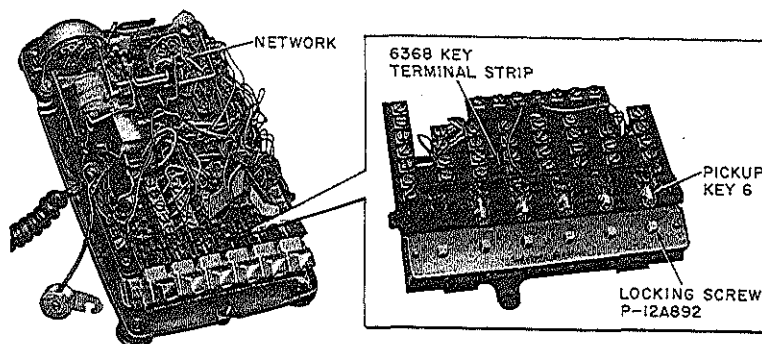
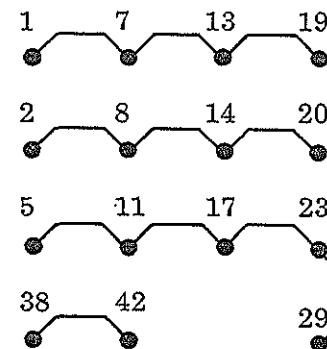


FIG. 1

INSTALL ATTENDANT KEY TELEPHONE (6-BUTTON) SET

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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		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.	
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

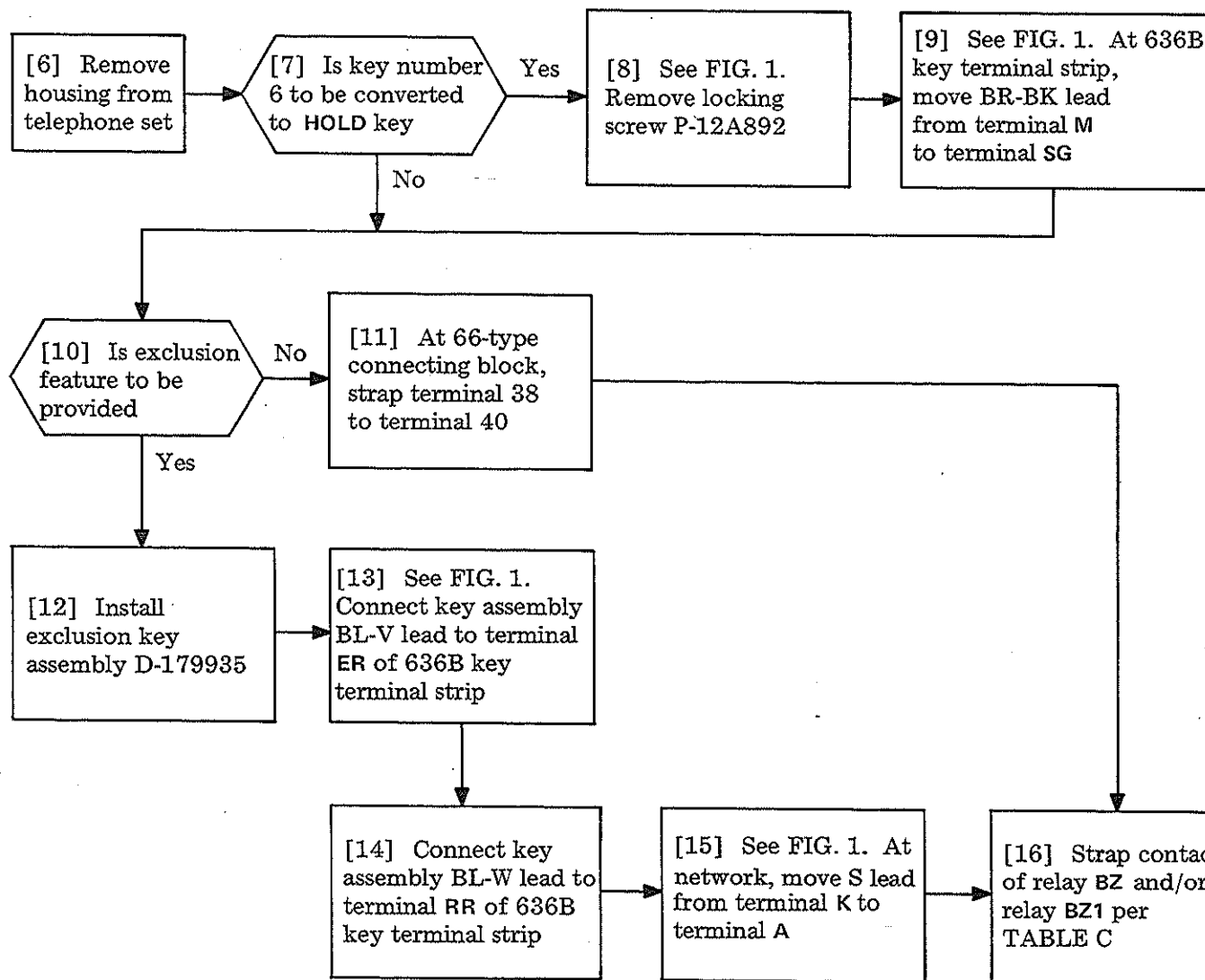
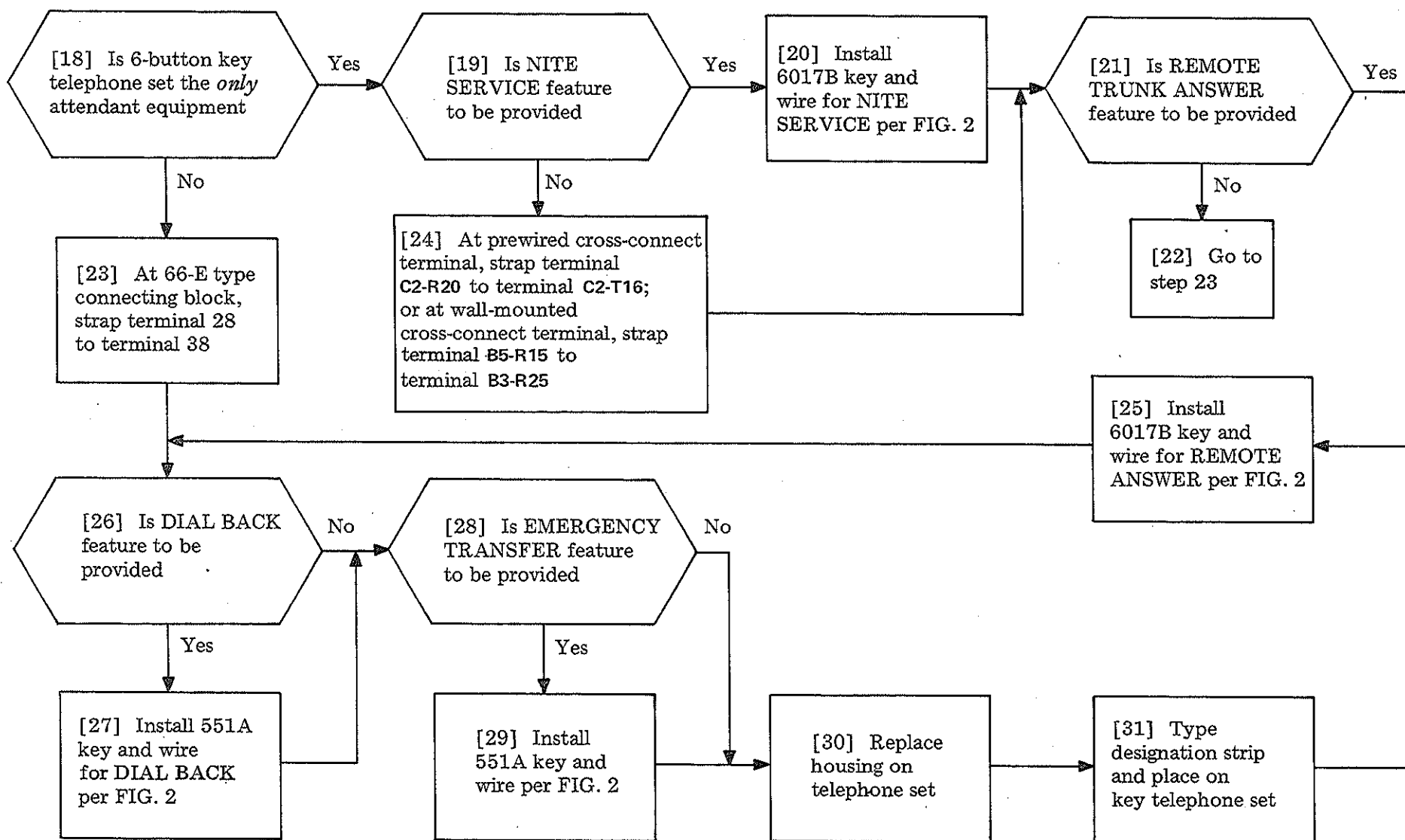


TABLE C		
DESIGNATION OF TRUNK PICKED UP AT KEY IS:	STRAP*	
	RELAY	CONTACTS
CO TRK 0	BZ	1B to 1M
CO TRK 1		2B to 2M
CO TRK 2		3B to 3M
CO TRK 3		4B to 4M
CO TRK 4		5B to 5M
CO TRK 5		6B to 6M
CO TRK 6		7B to 7M
CO TRK 7		8B to 8M
CO TRK 8	BZ1	9B to 9M
CO TRK 9		10B to 10M
ATND TRK 0		1B to 1M
ATND TRK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

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* ONLY ONE NITE SERVICE KEY MAY BE CONNECTED FOR PBX

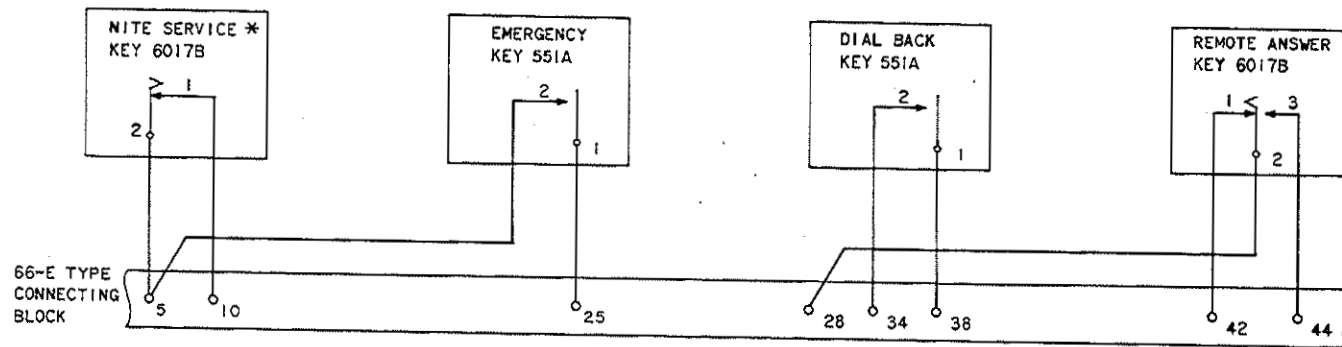


FIG. 2

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

Page 3

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 switch-
board due to weight*

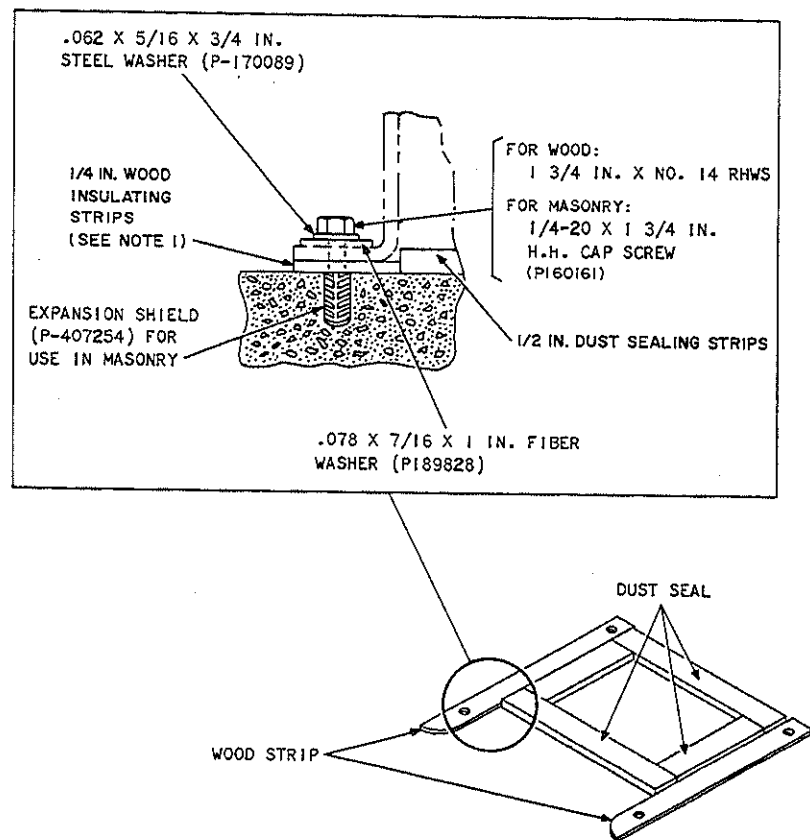


FIG. 1

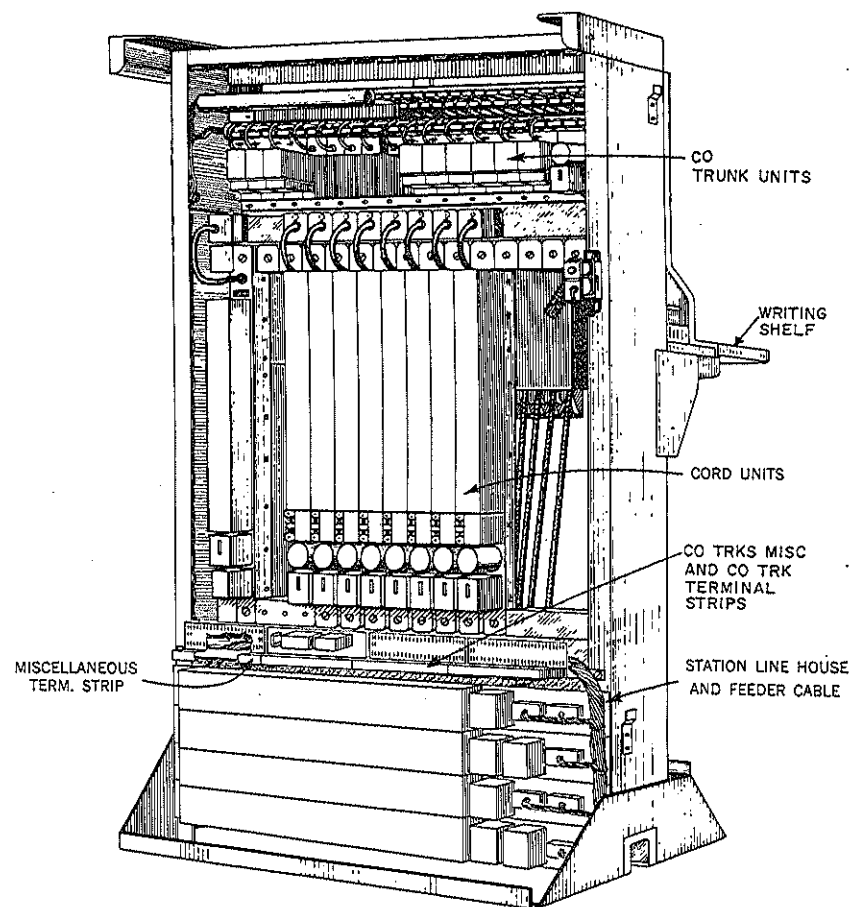


FIG. 2

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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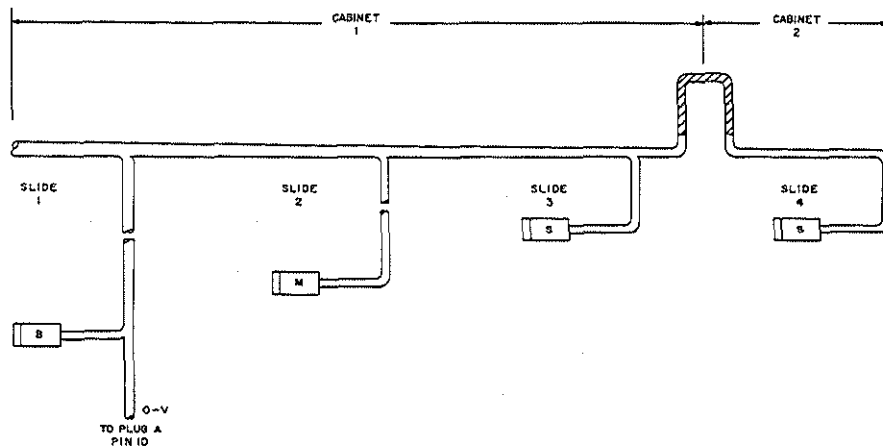


FIG. 3

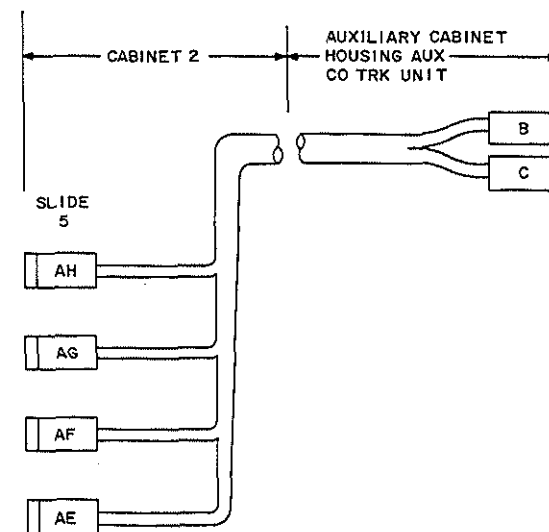


FIG. 4

TABLE A											
75-PAIR D INSIDE WIRING CABLE CONNECTIONS AT SWITCHBOARD 556A											
75-PAIR CABLE				CONNECT TO 556A		75-PAIR CABLE				CONNECT TO 556A	
BL-W BINDER	PAIR	COLOR	LEAD DESIG.	TERM. STRIP	TERM. NO.	BL-W BINDER	PAIR	COLOR	LEAD DESIG.	TERM. STRIP	TERM. NO.
	1T	W-BL	T	CO TRKS	T0		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	
G-W BINDER	PAIR	COLOR	LEAD DESIG.	TERM. STRIP	TERM. NO.	G-W BINDER	PAIR	COLOR	LEAD DESIG.	TERM. STRIP	TERM. NO.
	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

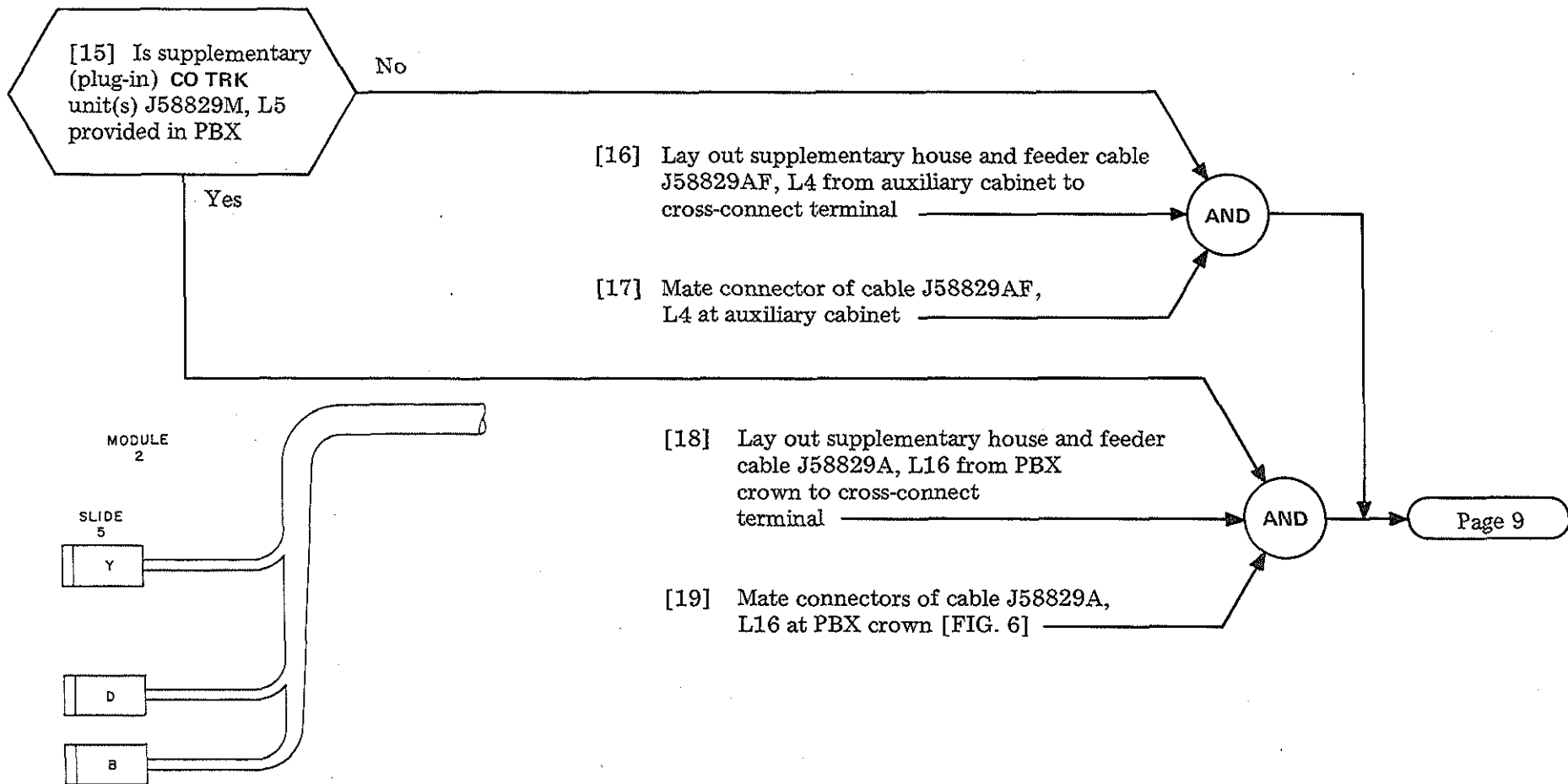


FIG. 6

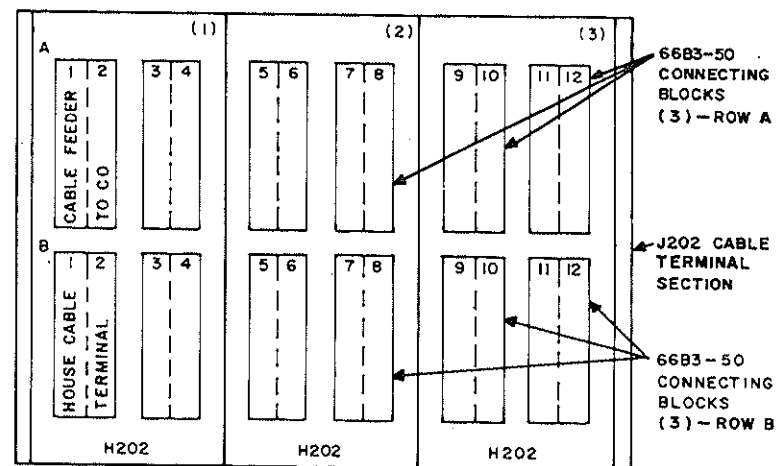
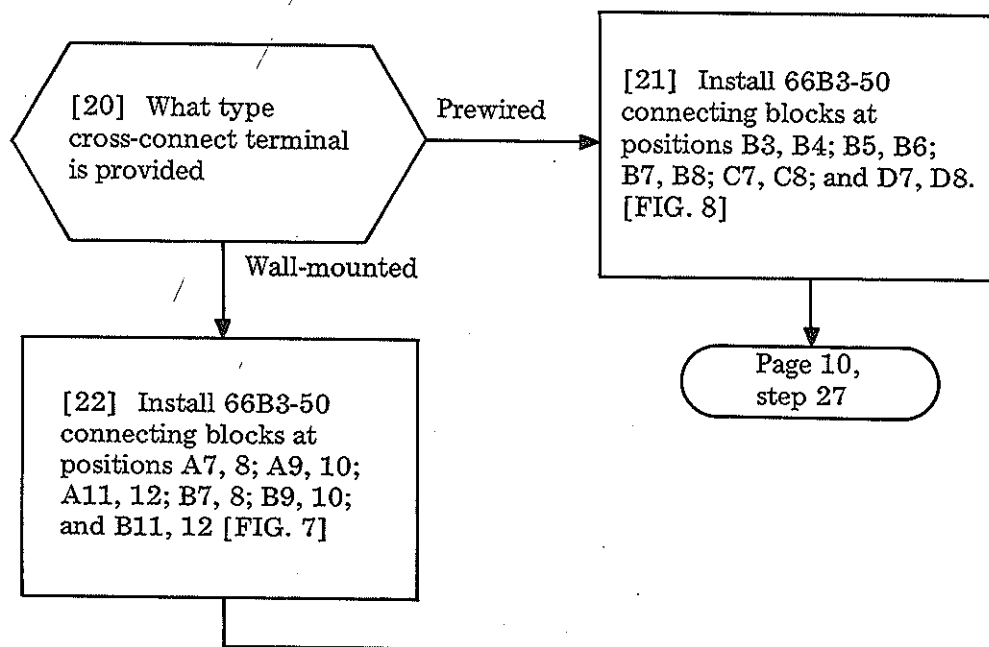


FIG. 7

[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

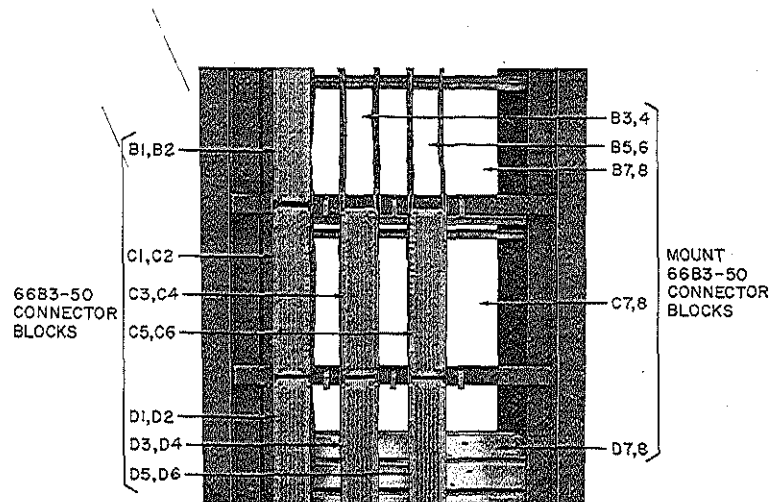
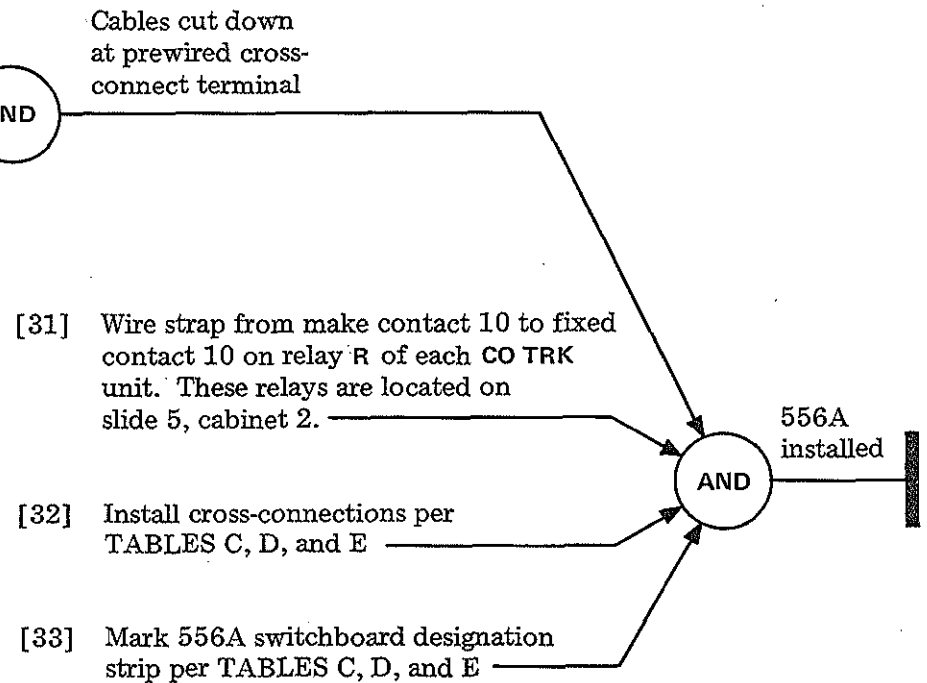


FIG. 8

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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.

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.

TABLE C

TABLE C															
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.	
BL-W BINDER — CONNECTION BLOCK*	TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	BL-W BINDER — CONNECTION BLOCK*	TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.
	T1	W-BL	T	To CO trunk					R13	G-BK	R	D5	6T	B7	1R
	R1	BL-W	R						T14	BK-BR	TL	C1	2T	↑	2T
	T2	W-O	T						R14	BR-BK	BL	C1	22T		2R
	R2	O-W	R						T15	BK-S	T	D5	7R		6T
	T3	W-G	T						R15	S-BK	R	D5	8T		6R
	R3	G-W	R						T16	Y-BL	TL	C1	3T	↓	7T
	T4	W-BR	T						R16	BL-Y	BL	C1	23R	B7	7R
	R4	BR-W	R						T17	Y-O	ON-0	D5	4R	A7	25T
	T5	W-S	T						R17	O-Y	ON-1	D5	6R	B7	5T
	R5	S-W	R						T18	Y-G	ON-2	D5	8R	B7	10T
	T6	R-BL	T						R18	G-Y	A	D5	5T	A7	25R
	R6	BL-R	R						T19	Y-BR	ACG	C2	19R	B7	12T
	T7	R-O	T						R19	BR-Y	TRL	C2	16R	B3	21T
	R7	O-R	R						T20	Y-S	SG	To succeeding atnd. equip.			
	T8	R-G	T						R20	S-Y	ACG1				
	R8	G-R	R	T21	V-BL	APS	D2		24T	B3	24T				
	T9	R-BR	T	R21	BL-V	AP6	D2		24R	↑	24R				
	R9	BR-R	R	T22	V-O	AP7	D2		25T	↓	25T				
	T10	R-S	T	R22	O-V	AP8	D2		25R	B3	25R				
	R10	S-R	R	T23	V-G	AP2	C8		9T	B11	9T				
	T11	BK-BL	†T	D5	3R	A7	21T		R23	G-V	AP2 BAT	C8	9R	↑	9R
	R11	BL-BK	R	D5	4T	↑	21R		T24	V-BR	SB	C8	10T		10T
	T12	BK-O	TL	C1	1T	↓	22T		R24	BR-V	SB BAT	C8	10R		10R
	R12	O-BK	BL	C1	22R	A7	22R		T25	V-S	SC-G	C8	11T	↓	11T
T13	BK-G	T	D5	5R	B7	1T	R25	S-V	SC-B	C8	11R	B11	11R		

* Rewired — B7; wall-mounted — A9

† Cable pairs 11 through 18 are used for attendant trunks

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)											
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.	CONN. BLOCK	TERM. NO.
T1	W-BL	STA 20		A1	T1	A3	T1	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.	
O-W BINDER — CONNECTION BLOCK*	TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	O-W BINDER — CONNECTION BLOCK*	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
O-W BINDER — CONNECTION BLOCK*	R7	O-R	S23		R2		R2	O-W BINDER — CONNECTION BLOCK*	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.	
G-W BINDER — CONNECTION BLOCK*	TERM. NO.	COLOR	LEAD DESIG.	CONN. BLOCK	TERM. NO.	CONN. BLOCK	TERM. NO.	G-W BINDER — CONNECTION BLOCK*	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						

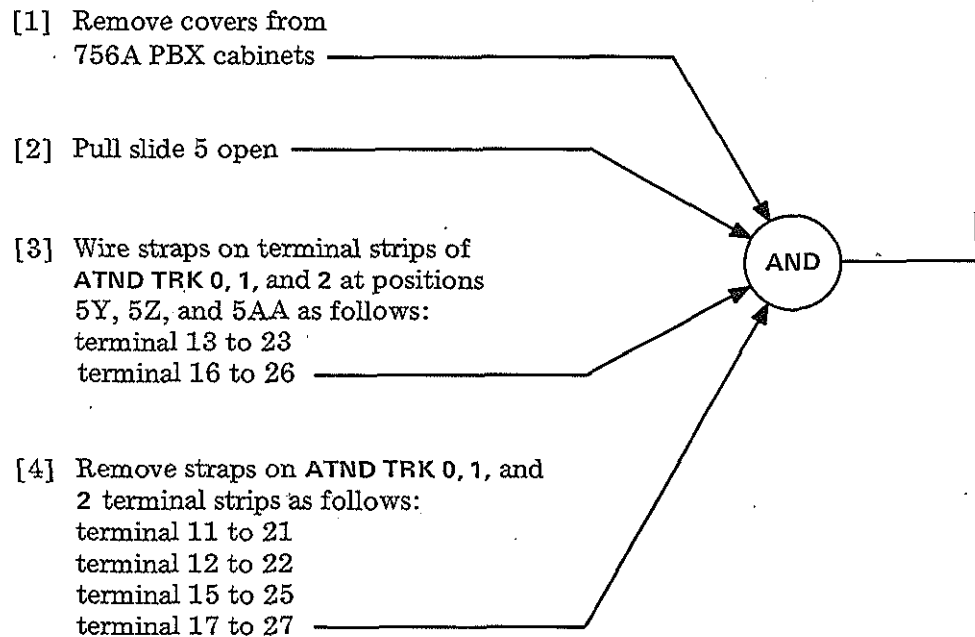
* Rewired — B6; wall-mounted — B8

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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

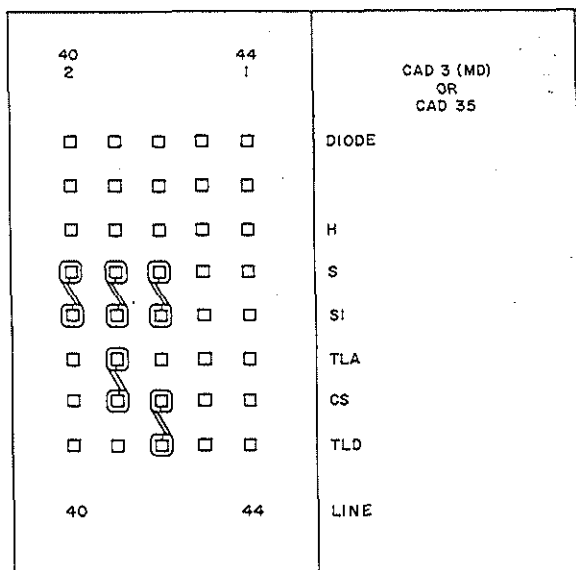
[3] See TABLE C and wire
class-of-service option
for each station per service
order. See FIG. 1
for typical strapping

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
KS-16492, L2	Wire wrapping tool (hand) for No. 22 or No. 24 gauge wire, which must be soldered
	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)

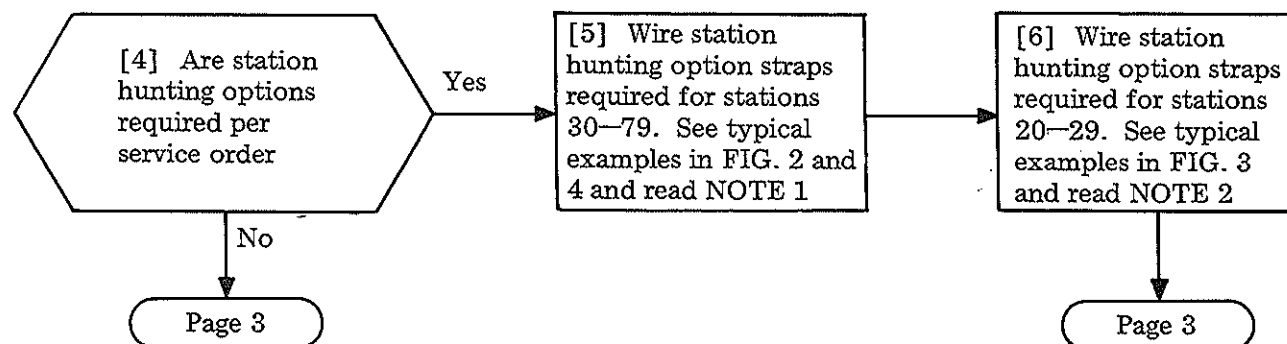
TABLE B

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

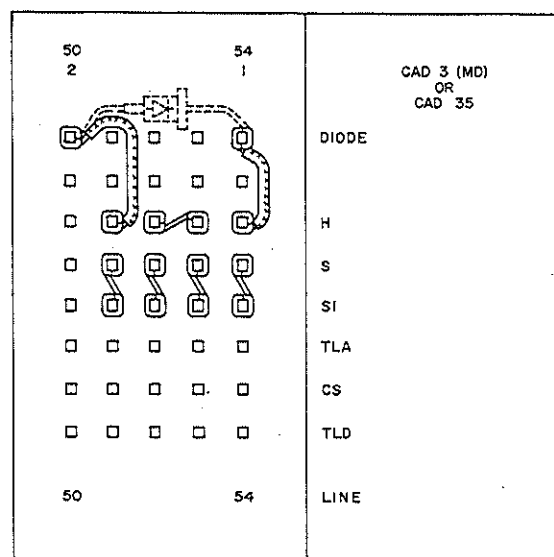
FIG. 1—Typical Class-of-Service Strapping on LINE
Terminal Strip (Station Lines 40 through 44)

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

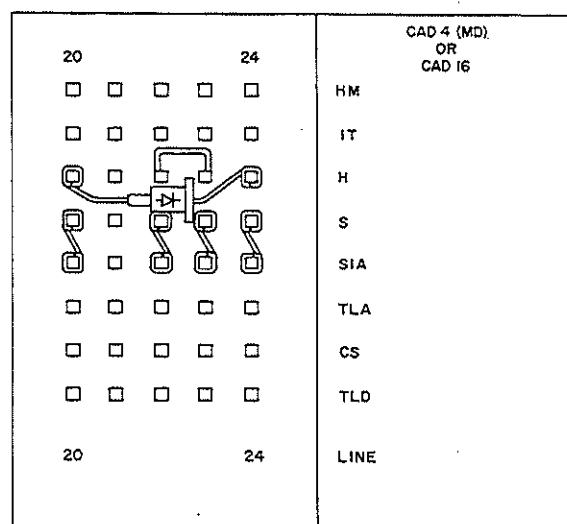
STATION 51 HUNTS TO STATION 54. *

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:

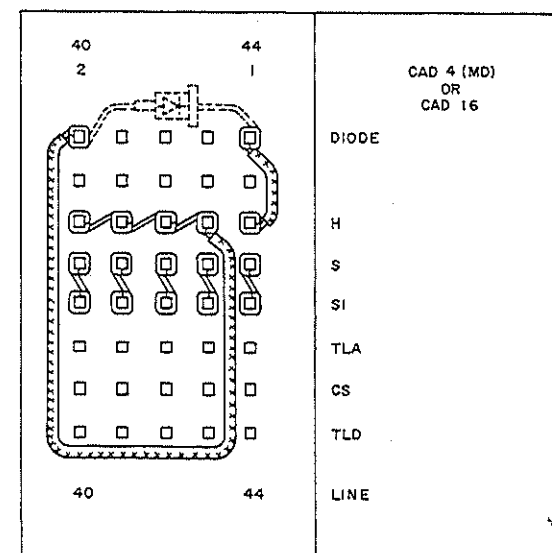
STATIONS 20 AND 24 STRAPPED FOR TERMINAL (ONE-WAY) HUNTING.

STATION 20 HUNTS TO STATION 24. *

STATIONS 22 AND 23 STRAPPED FOR CIRCULAR (TWO-WAY) HUNTING.

* HUNTING IS IN DIRECTION OF DIODE ARROW

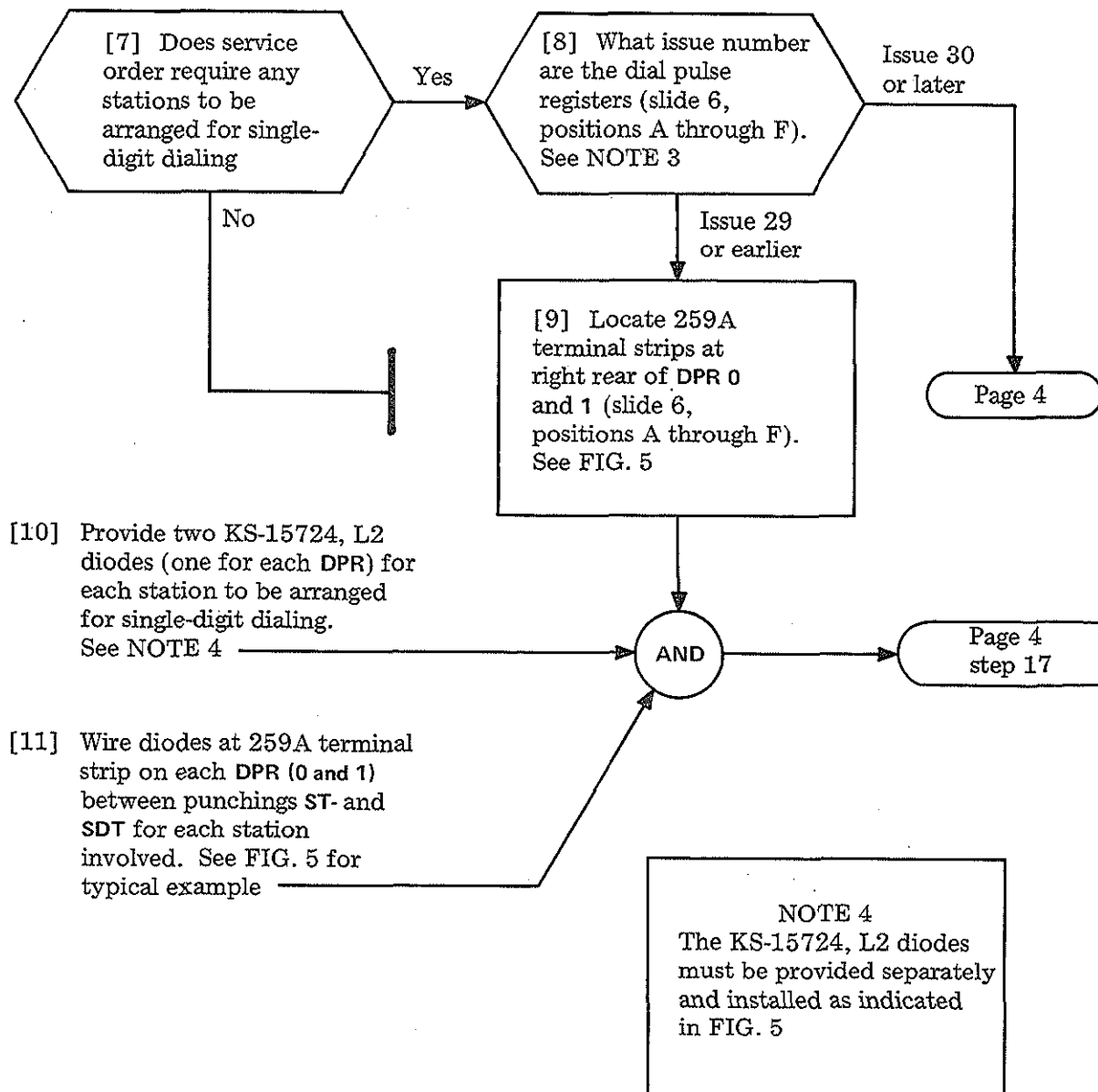
FIG. 3 — Typical Strapping on Universal LINE Terminal Strip Showing Straps for Station Hunting (Station Lines 20 through 24) See NOTE 2



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. *

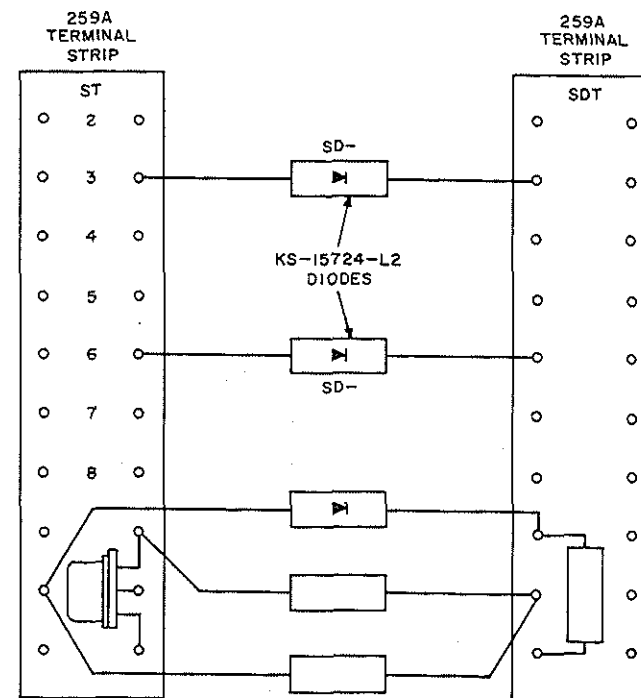
* HUNTING IS IN DIRECTION OF DIODE ARROW

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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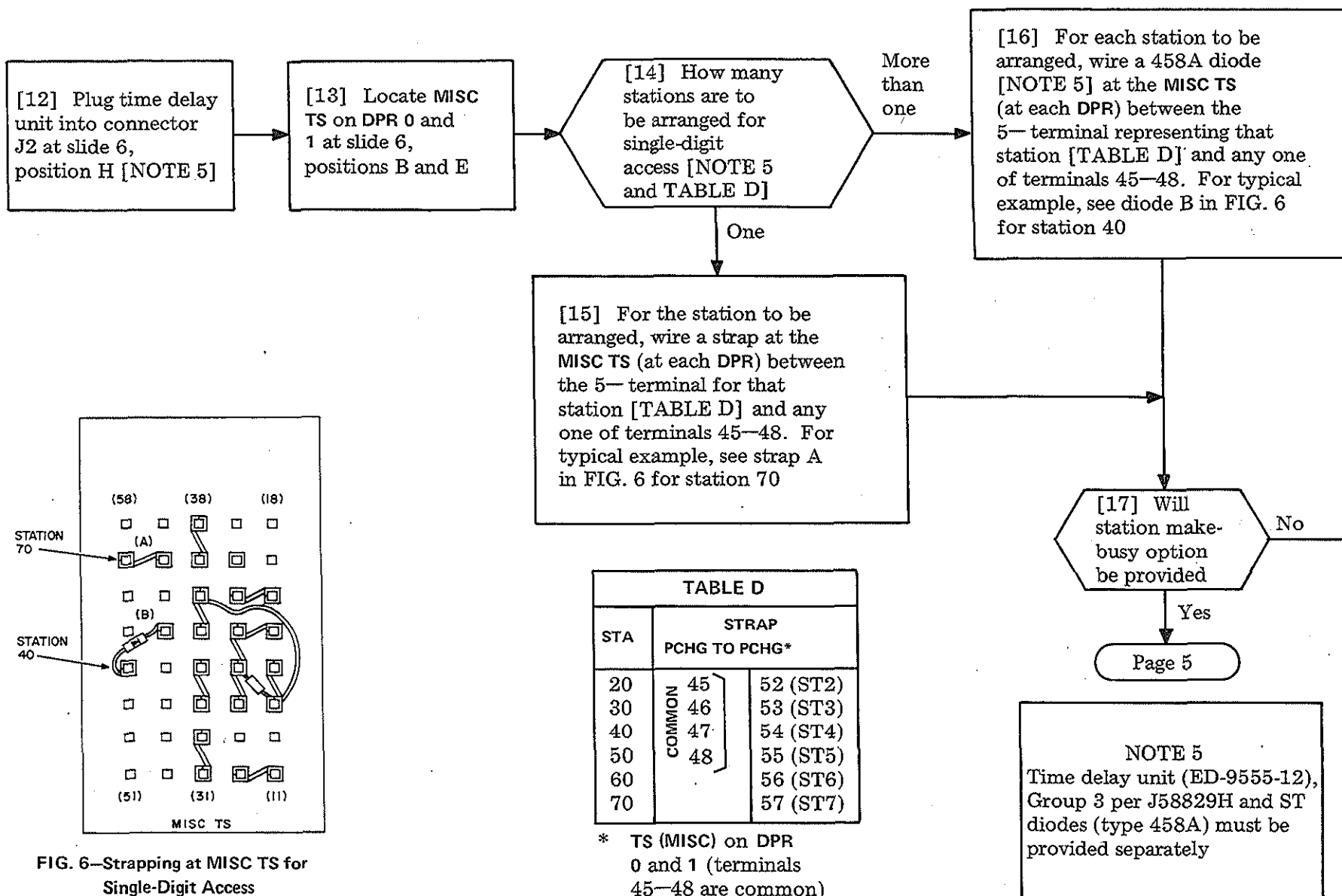


FIG. 6—Strapping at MISC TS for Single-Digit Access

[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]

WIRE STATION OPTIONS

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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]

AND

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	7
R	CO TRUNK	6
Q	CO TRUNK	5
P	CO TRUNK	4
N	CO TRUNK OR	
L	RINGDOWN TIE TRK	
K	TRUNK PATCHING	
J	CO TRUNK OR	3
H	RINGDOWN TIE TRK	
G	CO TRUNK	2
F	CO TRUNK	1
E	CO TRUNK	0
D		
C		
B		
A		

SLIDE 5

FIG. 1

INSTALL PLUG-IN CENTRAL OFFICE TRUNKS

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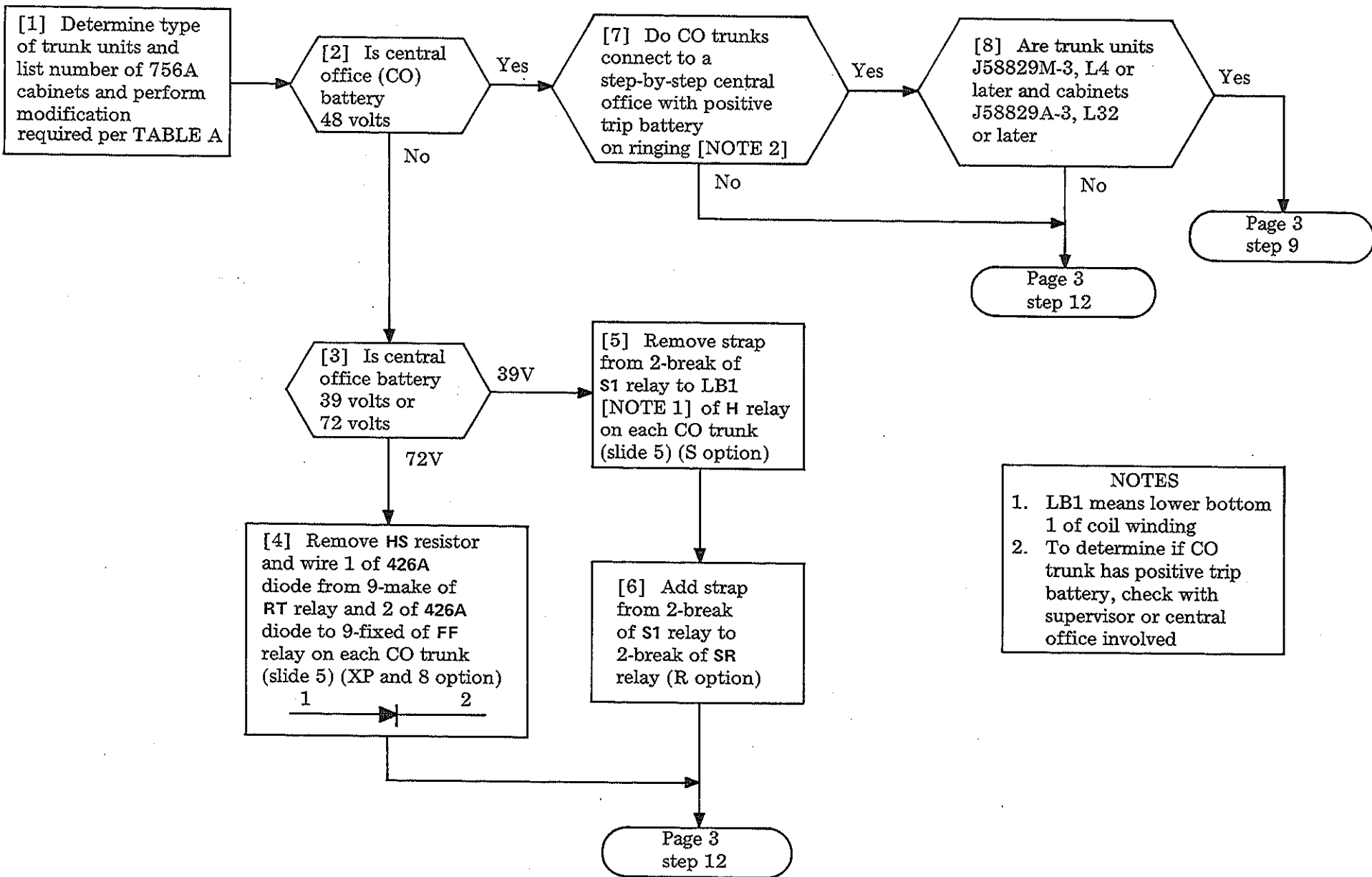
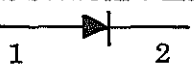
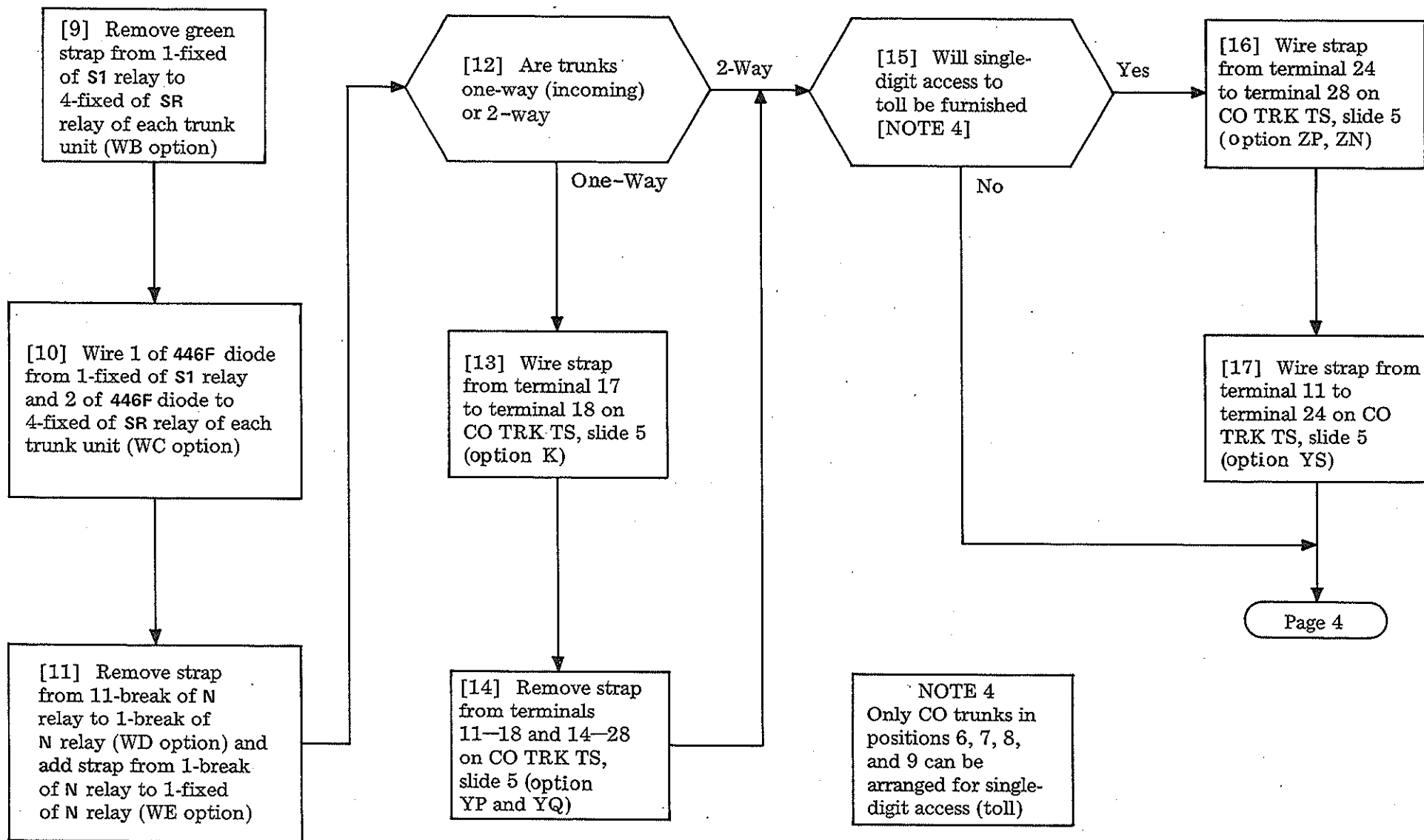


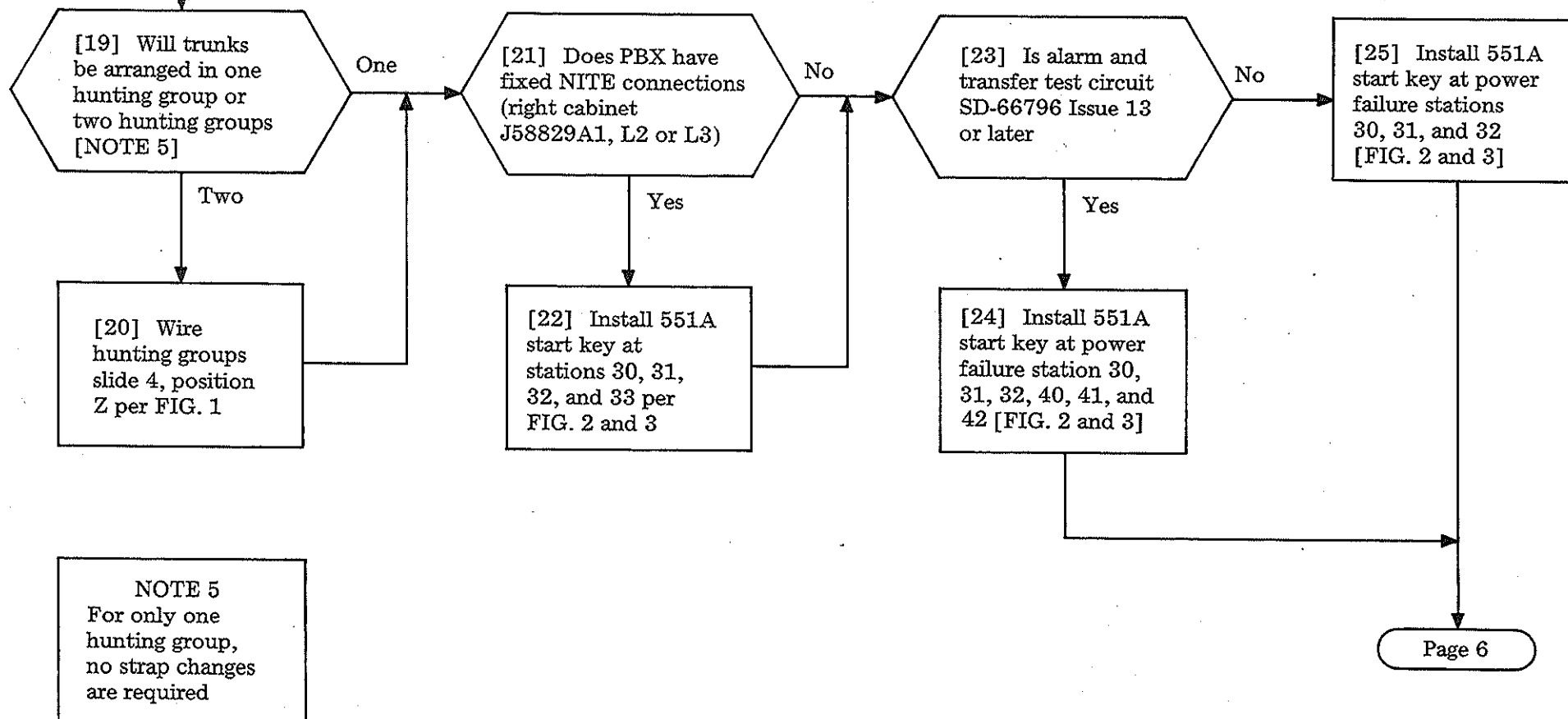
TABLE A		
TRUNK UNIT	756A CABINET	MODIFICATIONS REQUIRED
J58829M-4, L4	J58829A-3, L52-L55 J58829A-4, L52-L55	None
	J58829A-3, L32-L51	No. 1
	J58829A-3, L1-L27	No. 1 and No. 4
J58829M-3, L4, B, C	J58829A-3, L52-L55 J58829A-4, L52-L55	No. 2 and No. 3
	J58829A-3, L32-L51	No. 1, No. 2, and No. 3
	J58829A-3, 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

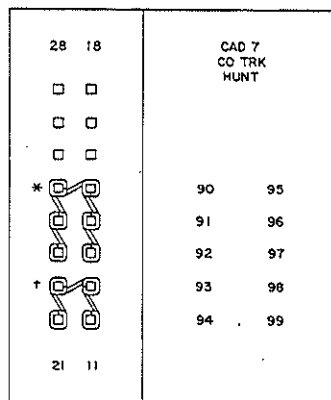
- No. 1 Strap terminal 11 to 14 on trunk unit terminal strip, slide 5 (Option XH)
- No. 2 Place 446F diode between 5-make of the R1 relay  (Option XM)
- No. 3 Move local cable, blue 3 white wire, from 7-fixed of the P relay to 2-break of the DRA relay
- Remove 7-fixed of the P relay to 2-make of the DRA relay
- Remove 2-fixed of the DRA relay to 10-break of the DR relay
- Strap 7-fixed of the P relay to 2-fixed of the DRA relay
- Strap 2-make of the DRA relay to 10-break of the DR relay
- No. 4 Add J58829M, List 7 (shorting plug for C connector)
- Option XT, XU, and XV



[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

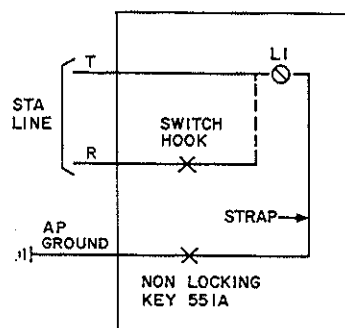


FIG. 2

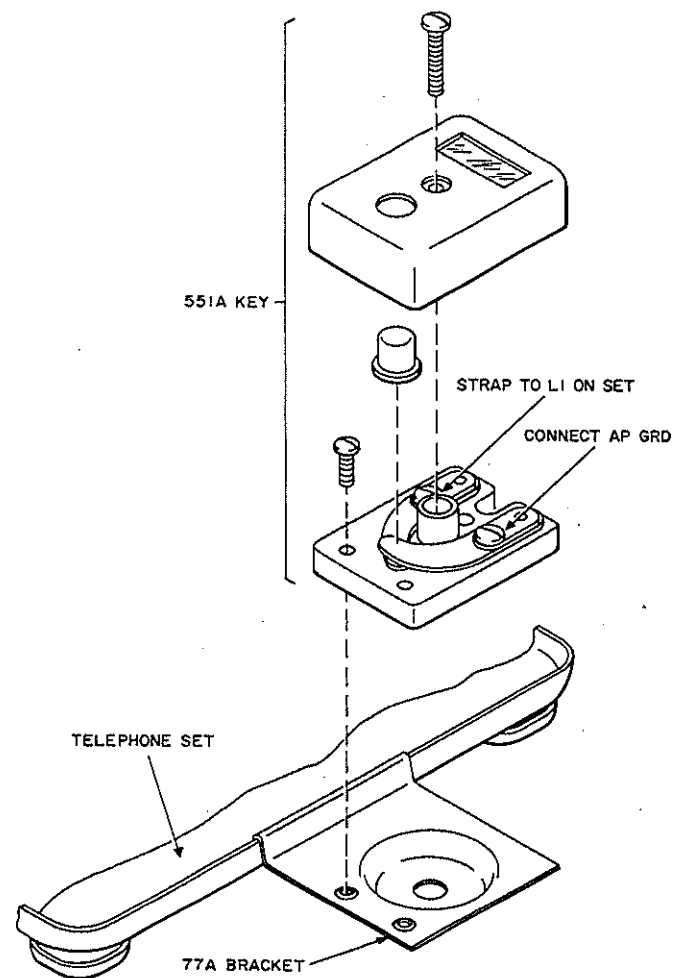
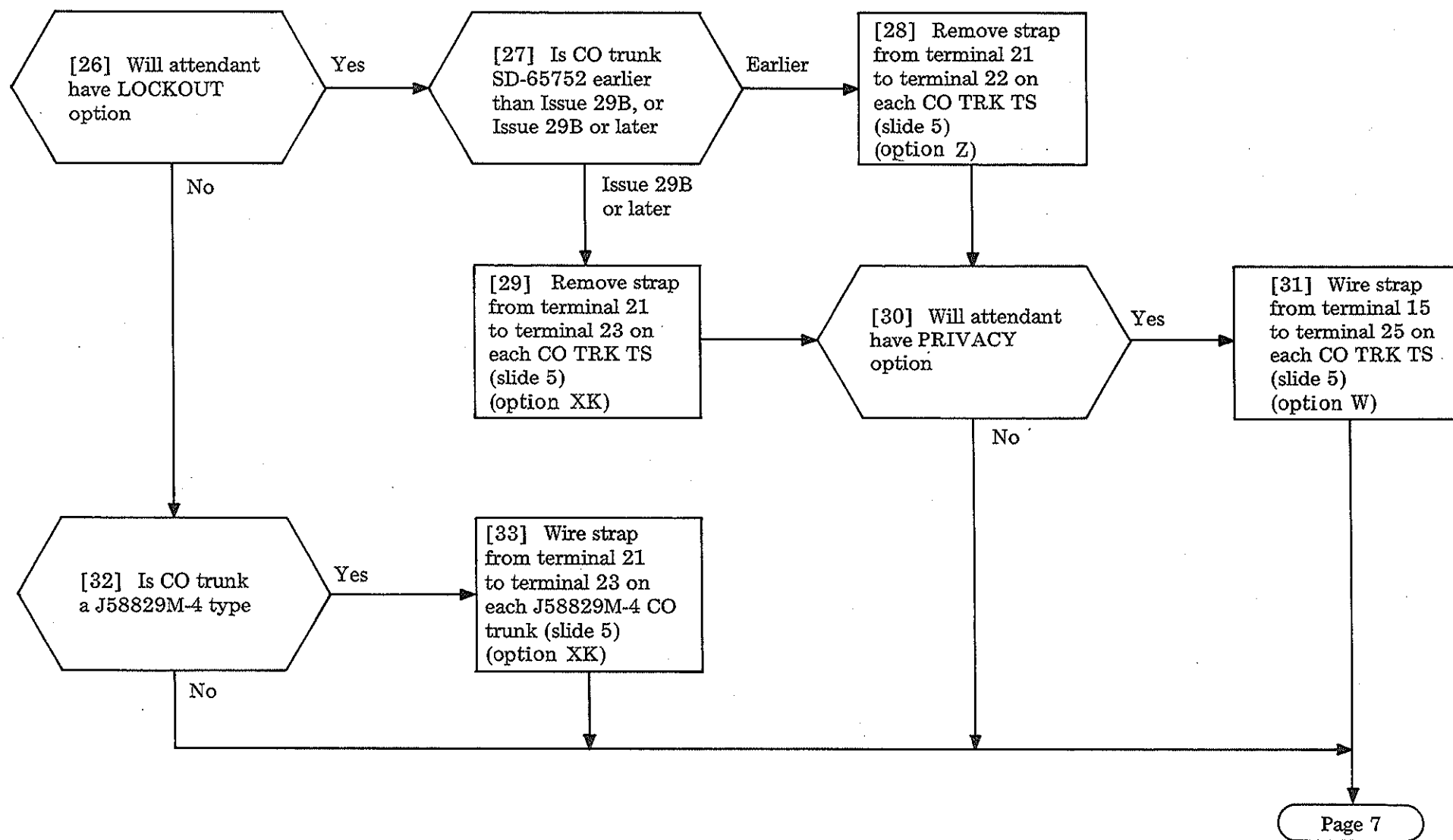
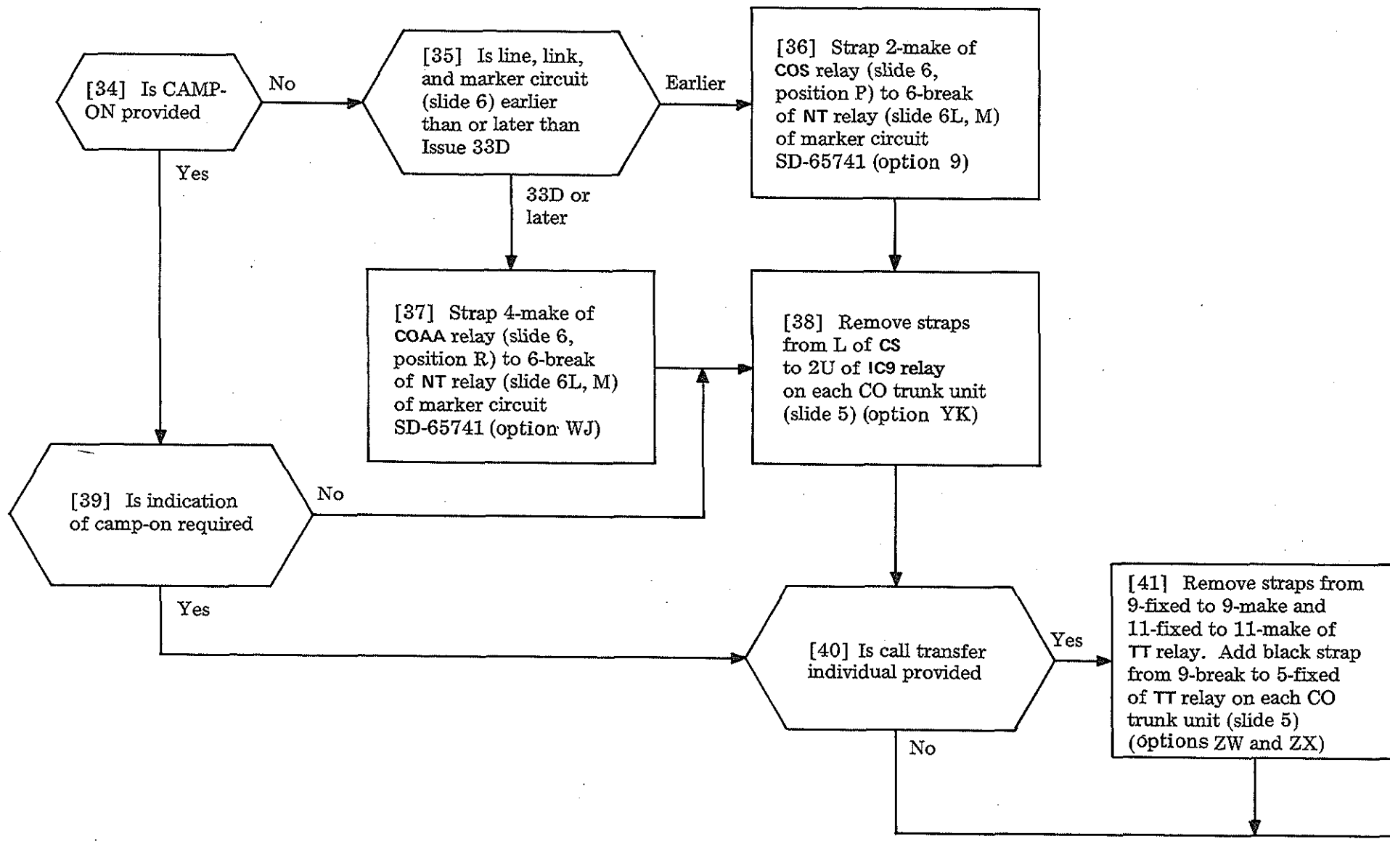


FIG. 3





[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

[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]

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

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

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 $\frac{1}{2}$ ohm or less [NOTE 4]

[16] Disconnect KS-14510 VOM

[17] Plug in crown connector P1 in crown over slide 1

[18] Turn AC INPUT switch to ON

AND

AND

NOTE 4

When ground reading exceeds $\frac{1}{2}$ ohm, follow ground lead to ground connection, cleaning and tightening each connection. Ground lead should be 14-gauge wire indicated in step 9

[19] Is a 556A switchboard installed as attendant equipment

No

Page 3

Yes

[20] Test CO and ringdown tie trunks at 556A switchboard [DLP-511]

[21] Test stations at 556A switchboard [DLP-512]

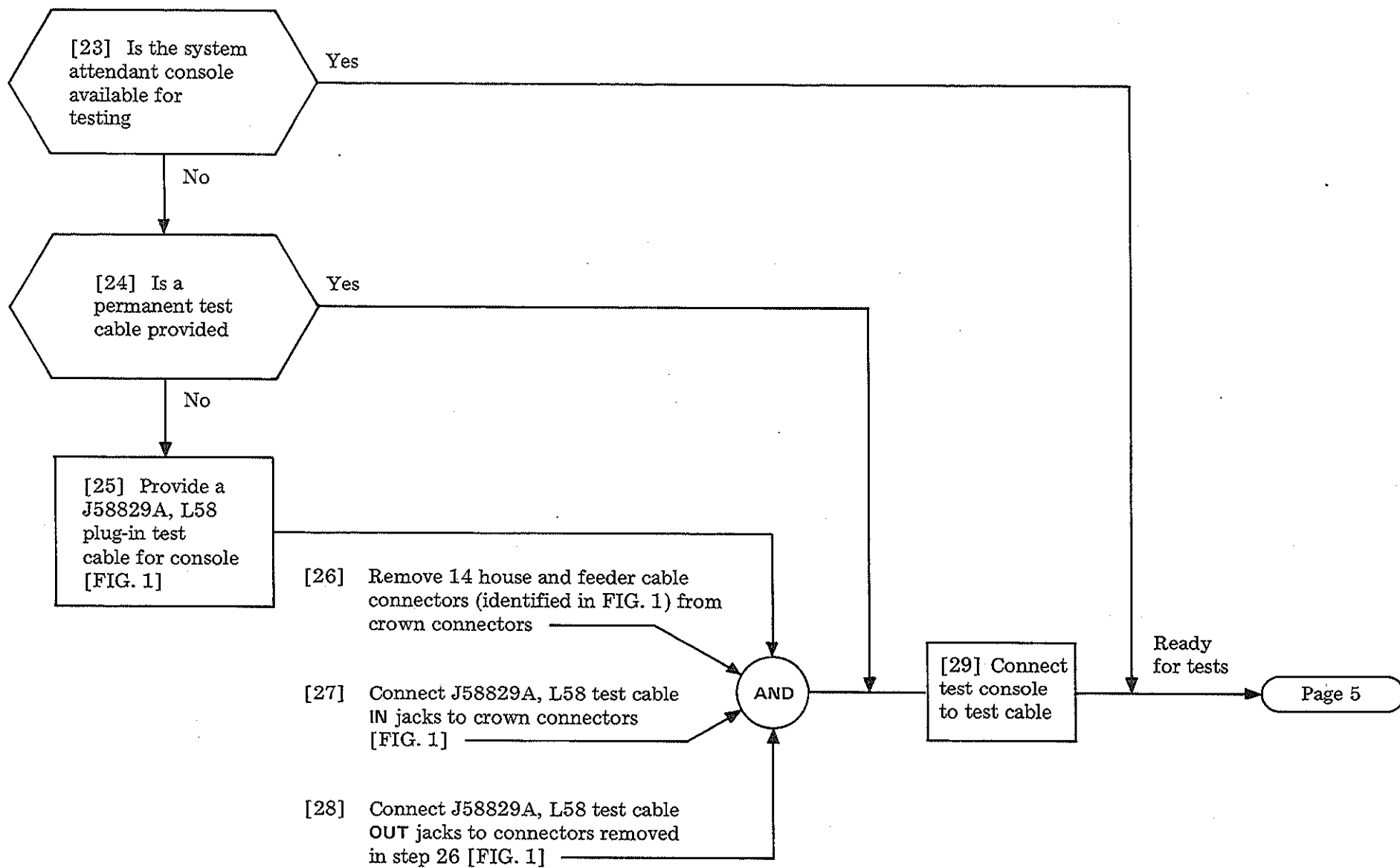
[22] Test manual conference circuit at 556A switchboard [DLP-513]

AND

Page 5
step 34

TEST BASIC 756A PBX

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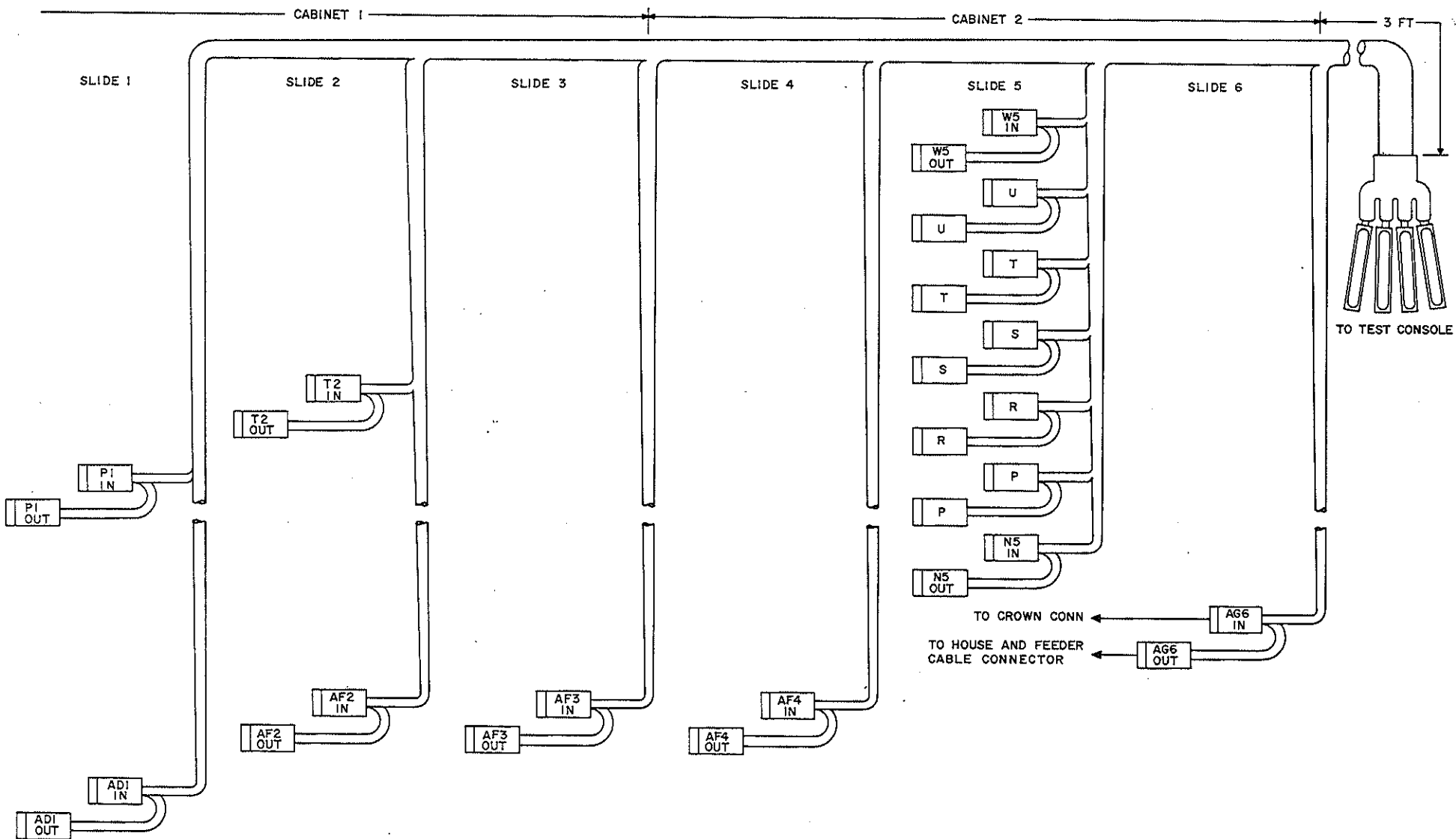


FIG. 1 -- J58829A, L58 CONSOLE TEST CABLE

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[30] Test alarms [DLP-514]
See NOTE 5

[31] Test time-out alarm [DLP-515]

[32] Test release alarm [DLP-516]

[33] Test alarm counting, releasing, and
lock-in feature [DLP-517]

Alarms
tested

AND

[34] Test stations [DLP-518]

[35] Test for intercept [DLP-519]

[36] Test busy-tone trunk
[DLP-520]

[37] Test attendant trunks
[DLP-521]

[38] Test CO trunks [DLP-522]

Stations
and trunks
tested

AND

[39] Test links, junctors, and
registers [DLP-523]

[40] Test power failure transfer
[DLP-524]

[41] See TABLE B. Test optional
feature or circuit applicable to
this installation

TABLE B

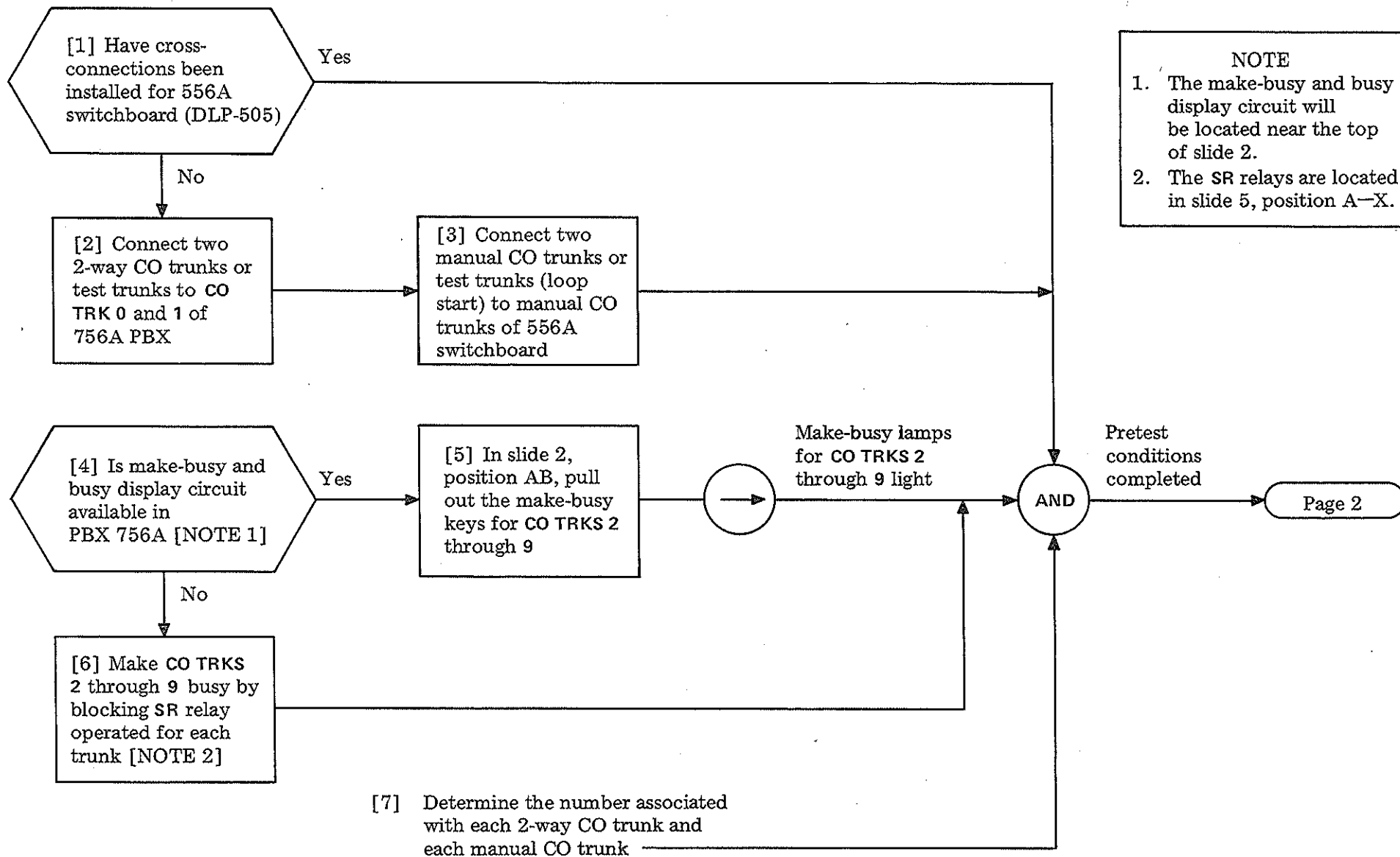
FEATURE OR CIRCUIT	PROCEDURE
Restricted Stations	DLP-525
Toll Denied Stations	DLP-526
2-Way Station Hunting Groups	DLP-526
1-Way Station Hunting Groups	DLP-526
Fixed Nite Service	DLP-528
Flexible Nite Service	DLP-529

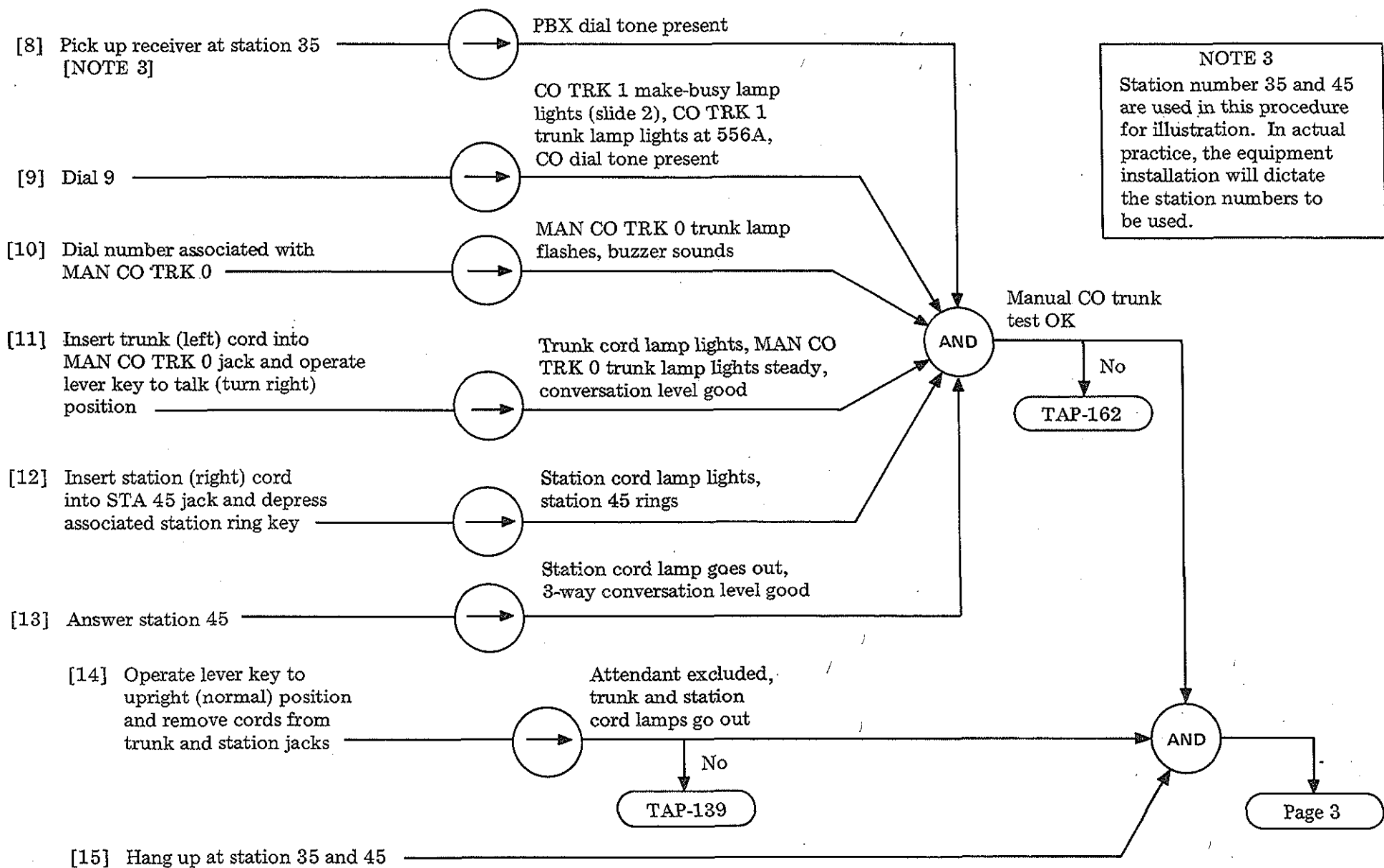
NOTE 5

When testing, do not dis-
connect 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

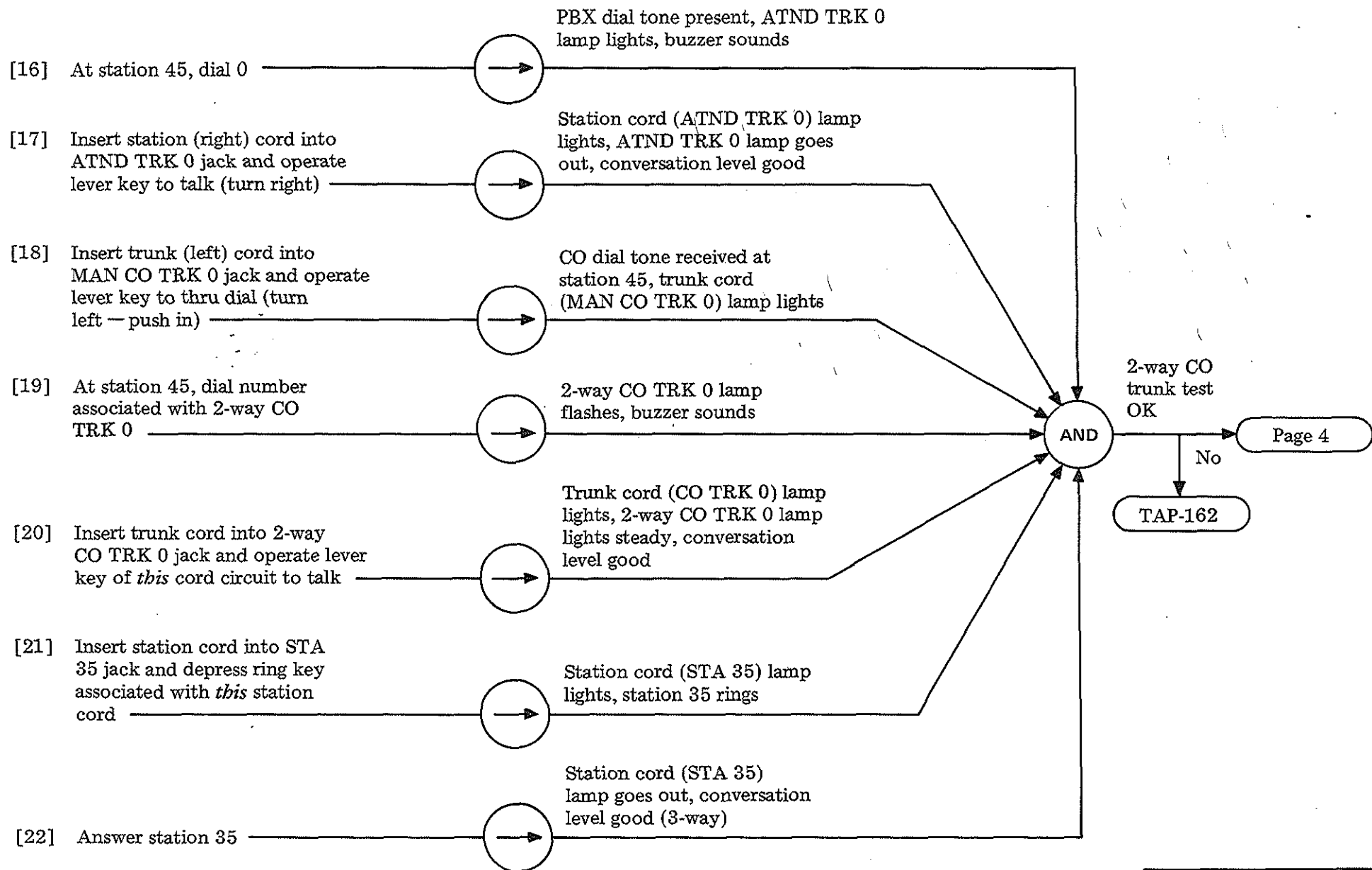
AND





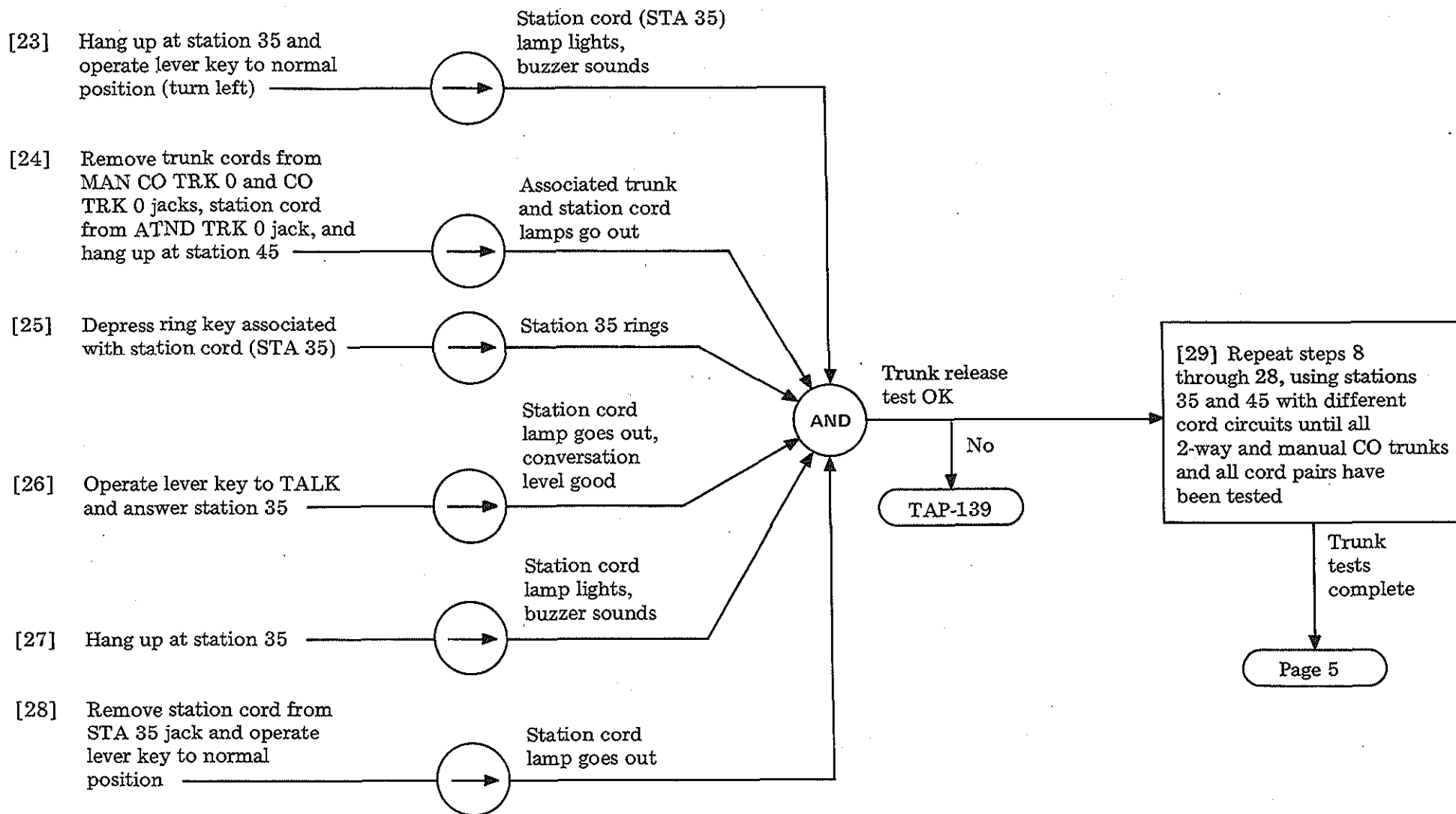
TEST 2-WAY CENTRAL OFFICE AND MANUAL CENTRAL OFFICE TRUNKS AT 556A SWITCHBOARD

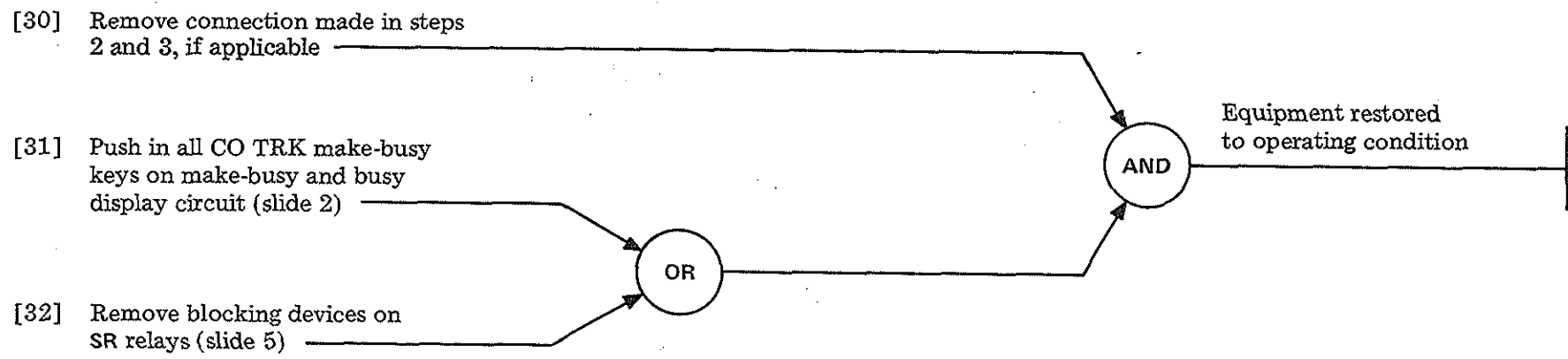
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TEST 2-WAY CENTRAL OFFICE AND MANUAL CENTRAL OFFICE TRUNKS AT 556A SWITCHBOARD

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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

AND

Station-to-attendant call test OK

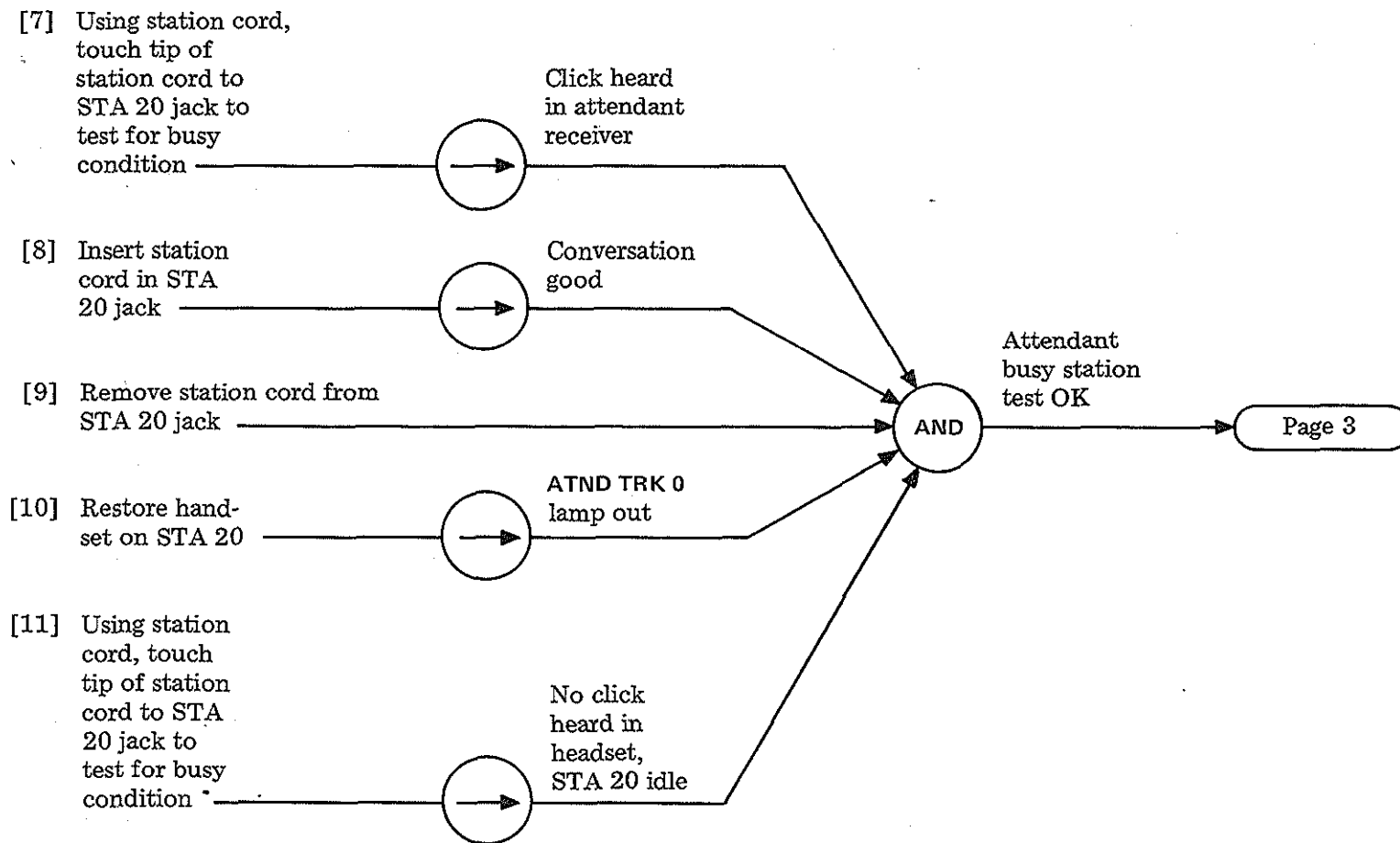
No

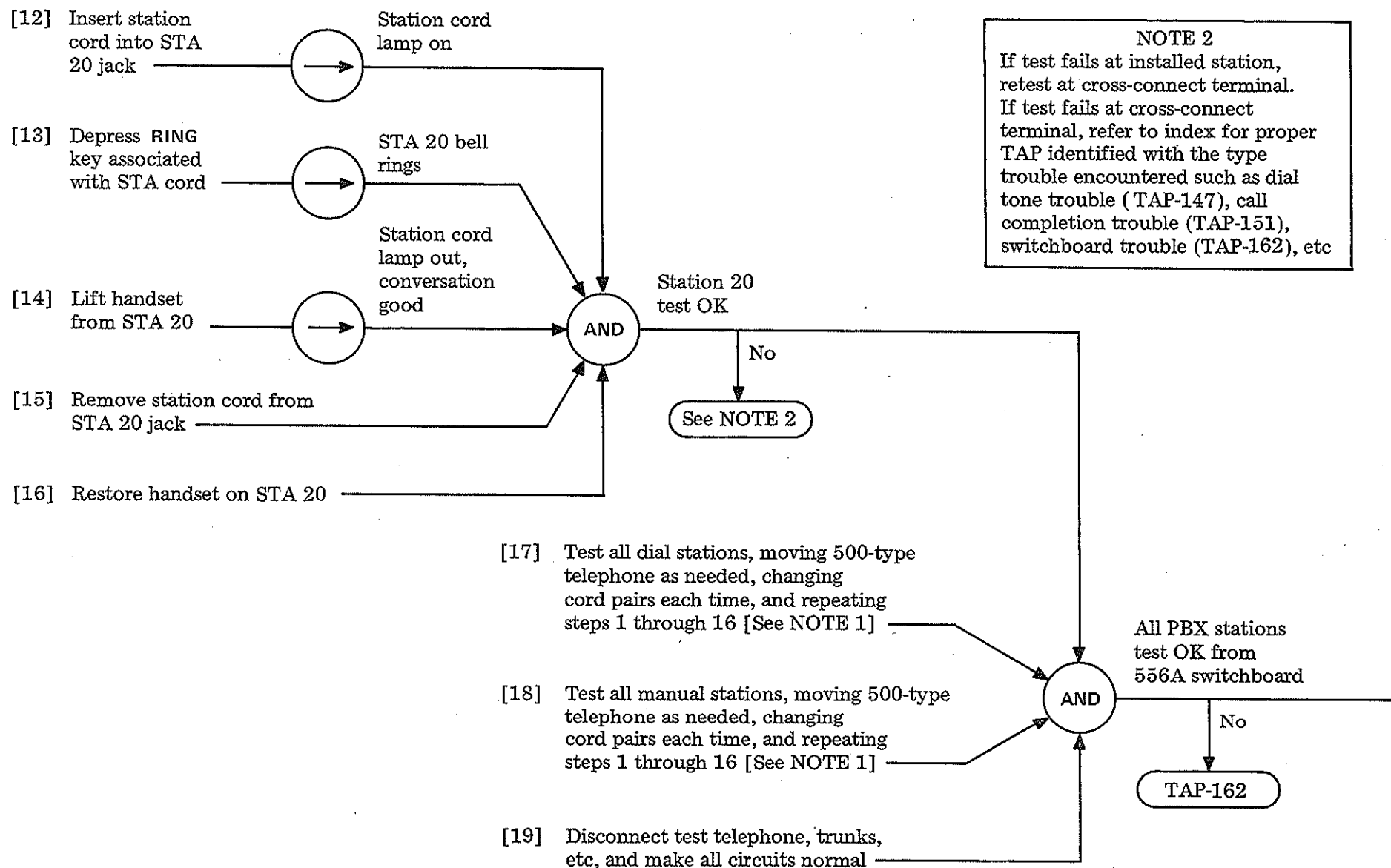
TAP-162

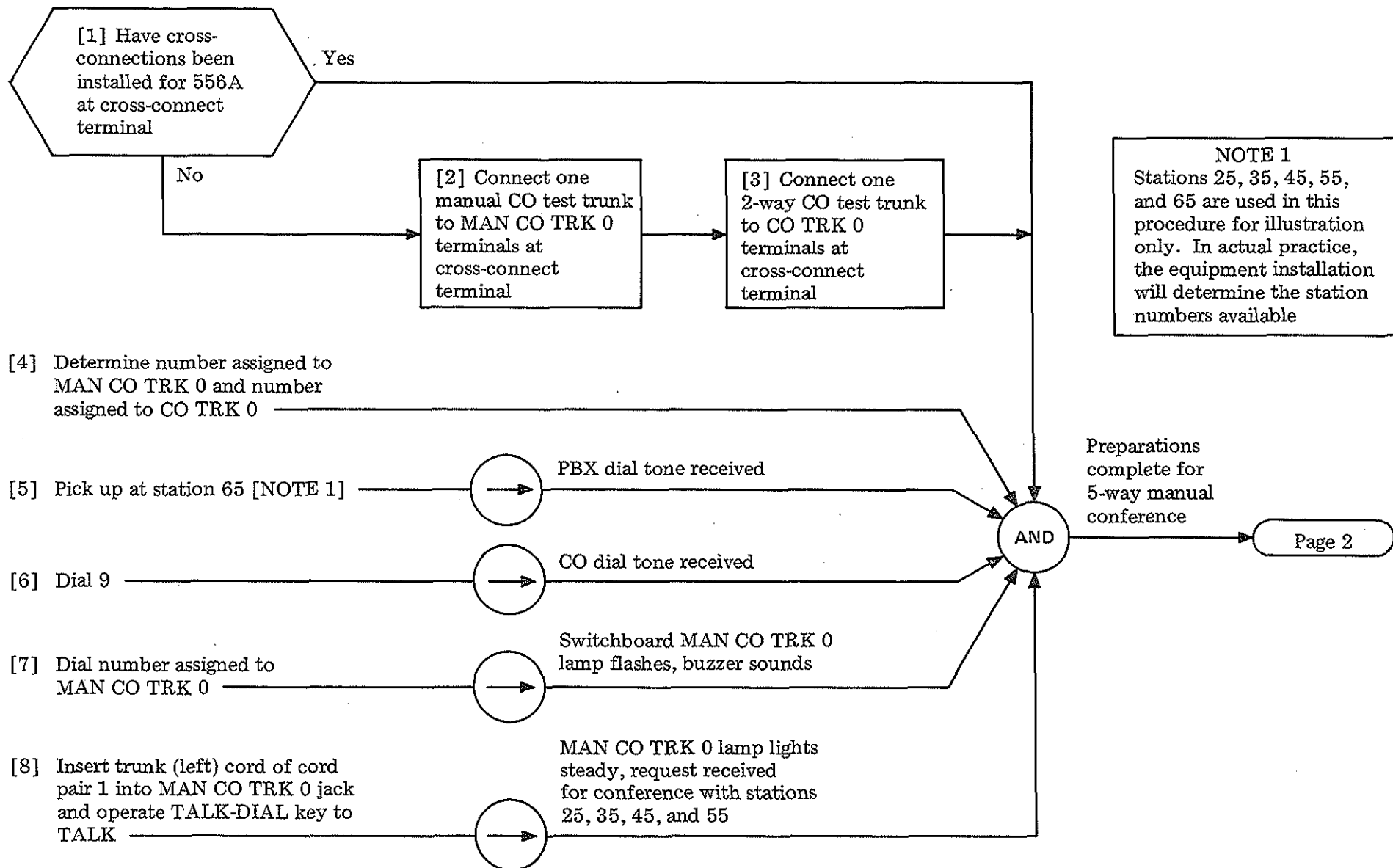
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NOTE 1

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







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

5-way manual conference complete. Test OK

No

TAP-162

[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

Equipment restored to operating condition

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

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

See NOTE.
Associated
alarm
lamps on

No

TIL-095

TR lamp off
momentarily

EXT lamp on
momentarily

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	TS	R	TS*
1	LAL1	AA	LAL1	*Slide 1 position AA			

[4] Manually operate relays listed in TABLE A

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

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

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

[9] Manually operate S relay momentarily

FA and TR
lamps on
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

TEST MARKER ALARMS

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At slide 1, mounting plate AB (1AB)

[1] Block relay AL
nonoperated

[2] Locate TOAL lamp

AND

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

[4] TOAL lamp lights
momentarily during
each relay closure

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

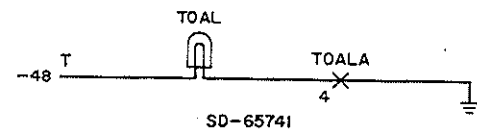


FIG. 1

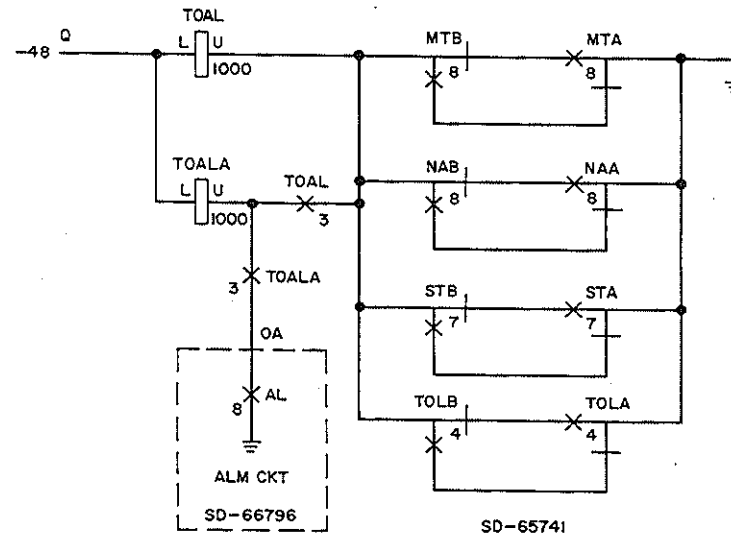


FIG. 2

- [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

AND

- [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

- [6] Does TAAL lamp light momentarily [NOTE 1]

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

AND

- [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

AND

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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

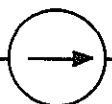
TABLE A	
RELAY	LOC.
LUCA	6V
LUCB	6U
BTCA	6T
BTCB	6S
LTA	6Q
LTB	6Q
HMKA	6V
HMKB	6U

Page 3

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

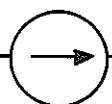
At 6K:

[26] Block RLSA relay
operated



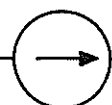
RLAL lamp on

[27] Block RLSAA relay
operated



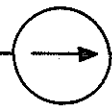
RLAL lamp off

[28] Remove blocking tool from
RLSA relay



RLAL lamp on

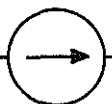
[29] Remove blocking tool from
RLSAA relay



RLAL lamp off

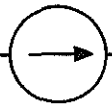
At 6J:

[30] Block RLSB relay
operated



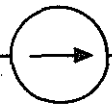
RLAL lamp on

[31] Block RLSBA relay
operated



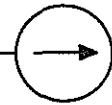
RLAL lamp off

[32] Remove blocking tool from
RLSB relay



RLAL lamp on

[33] Remove blocking tool from
RLSBA relay



RLAL lamp off

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

AND

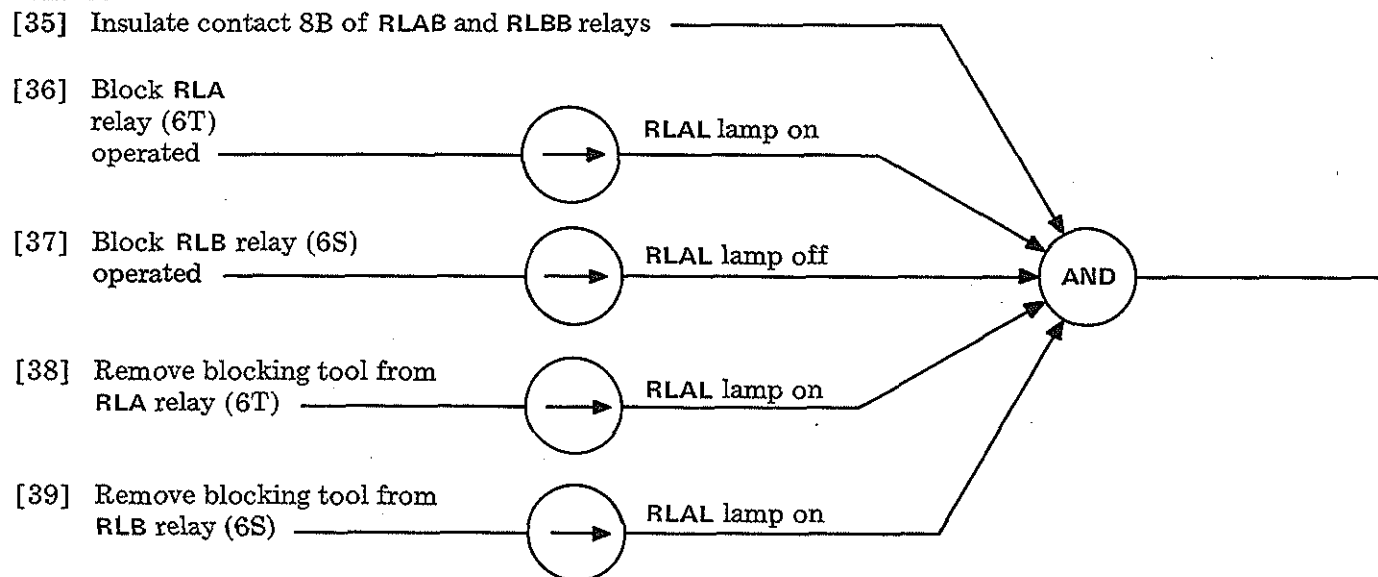
AND

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TEST RELEASE ALARM

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At 6T and 6S:



At 6T and 6S:

[40] Remove insulator from contact 8B of RLAB and RLBB relays

[41] Block MAL relay (1AB) nonoperated

At 6T

[42] Block RLAB relay operated

[43] Block RLAA relay operated

[44] Remove blocking tool from RLAB relay

RLAL lamp on

RLAL lamp remains on

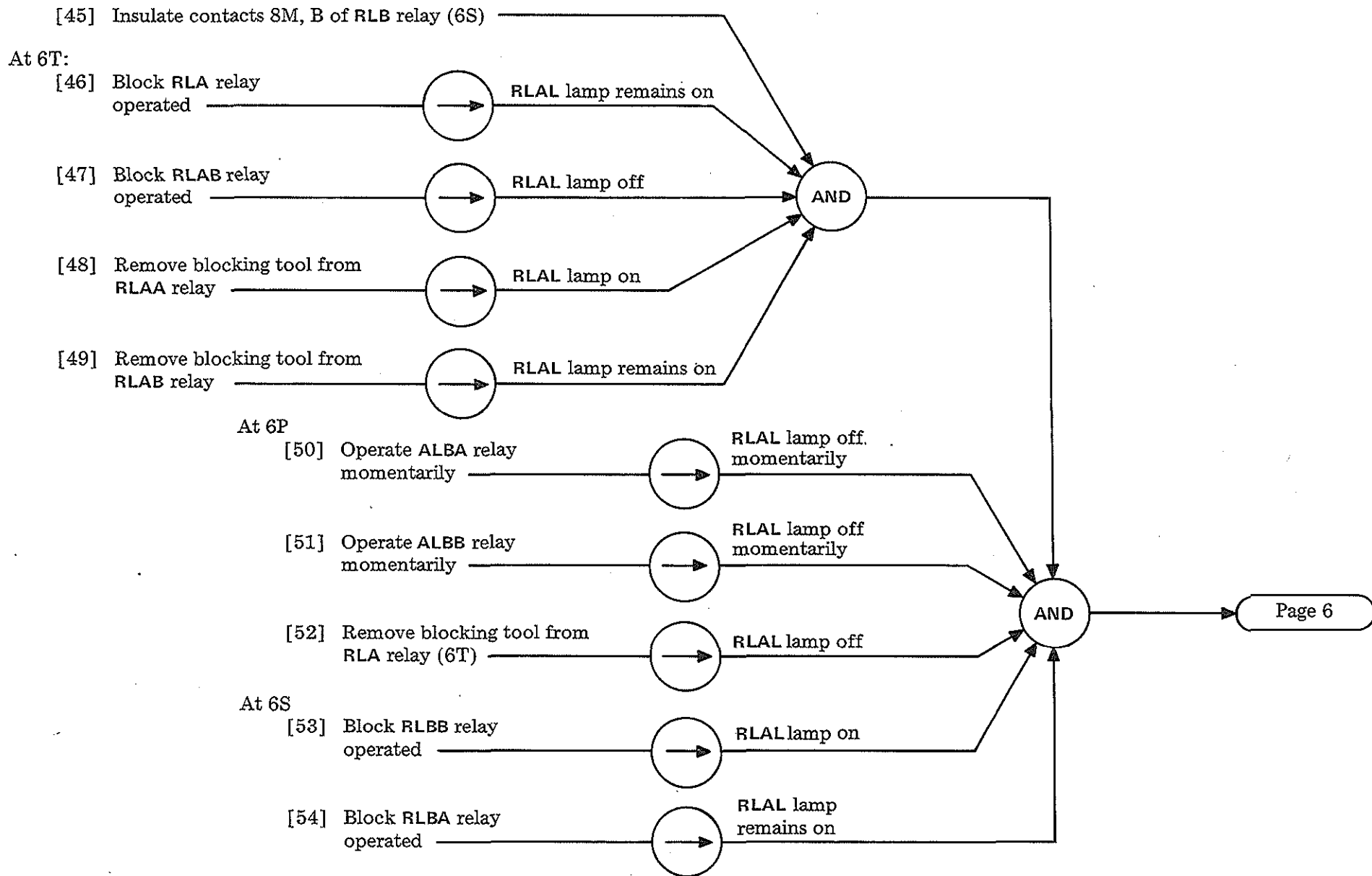
RLAL lamp remains on

AND

Page 5

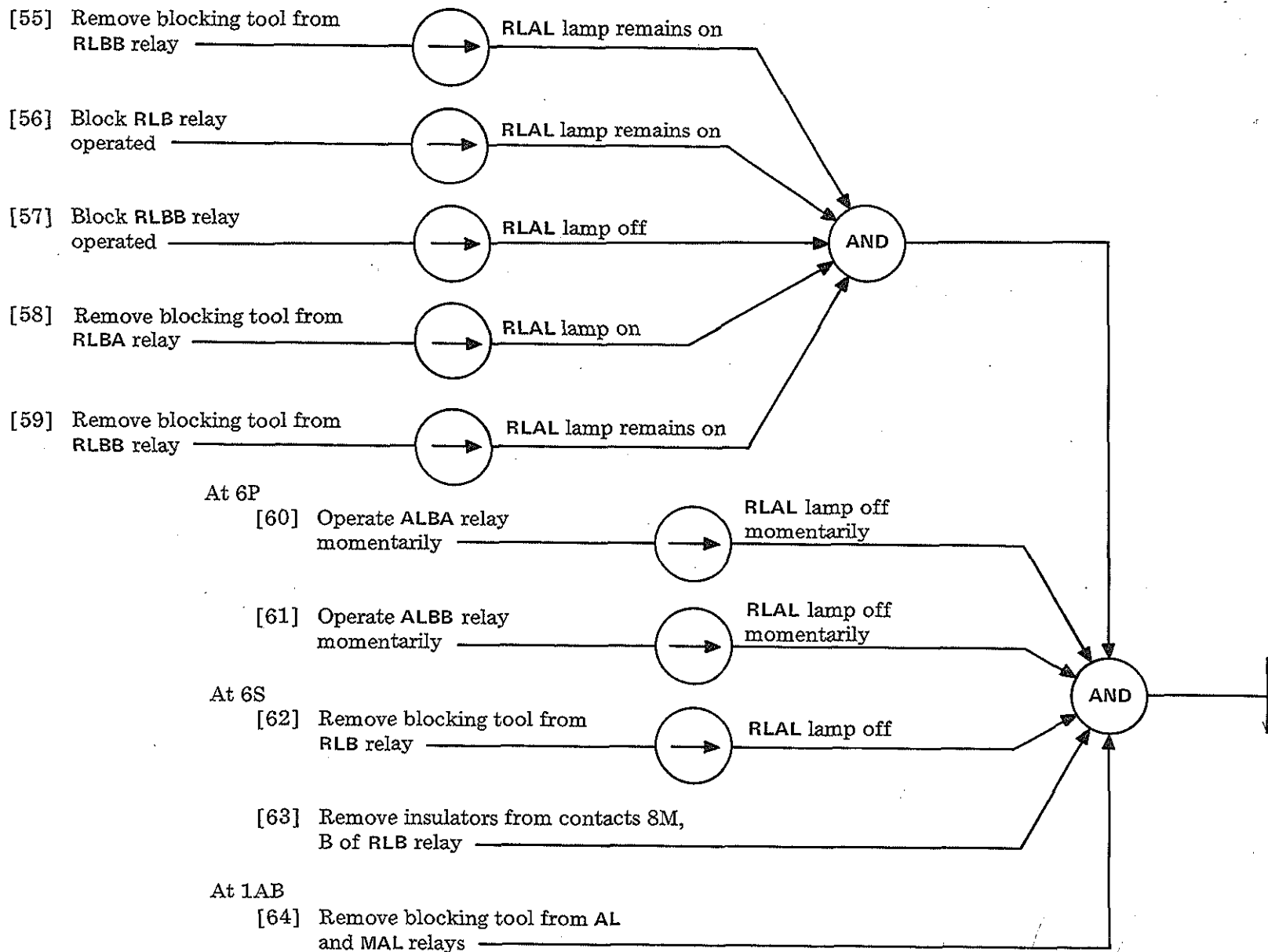
TEST RELEASE ALARM

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TEST RELEASE ALARM

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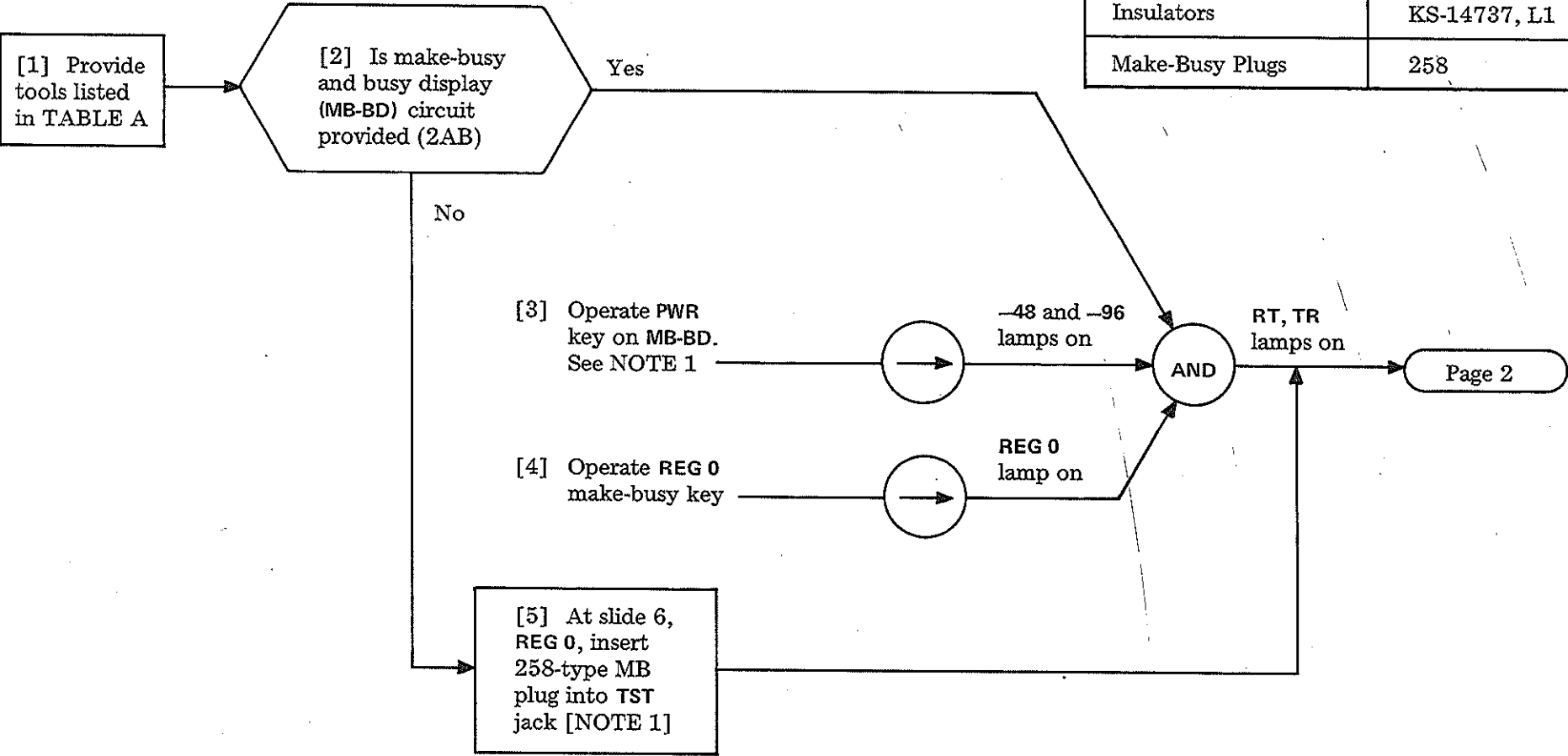


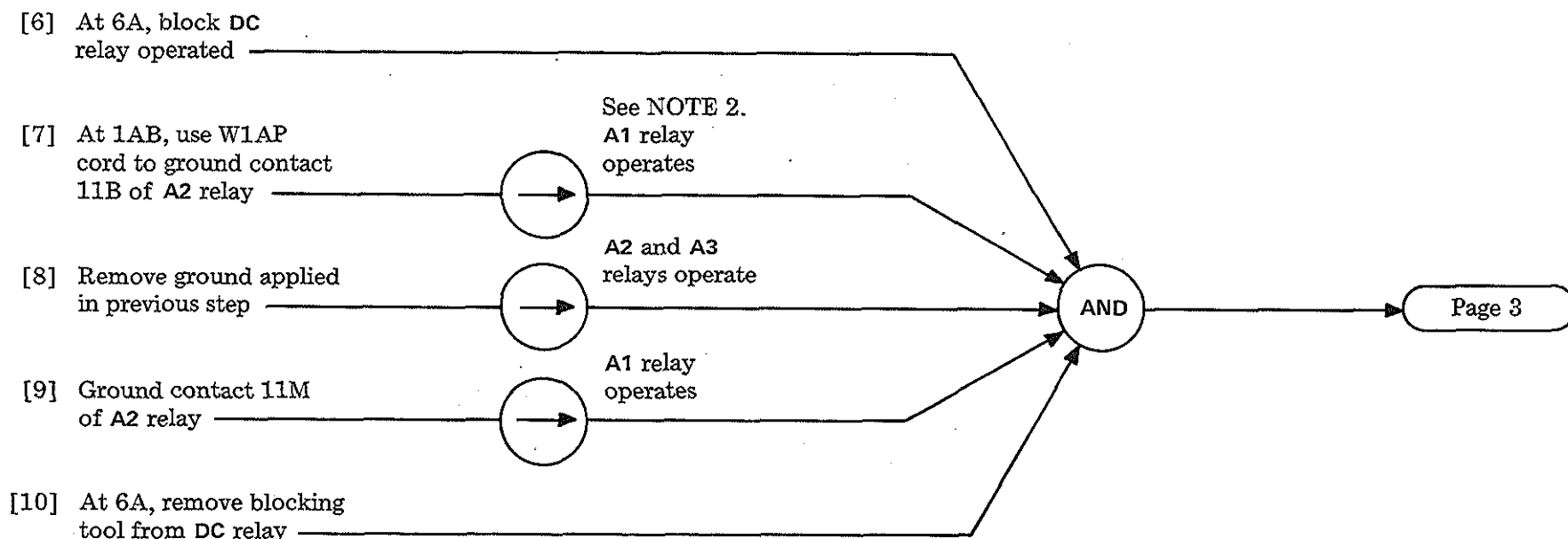
TEST RELEASE ALARM

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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

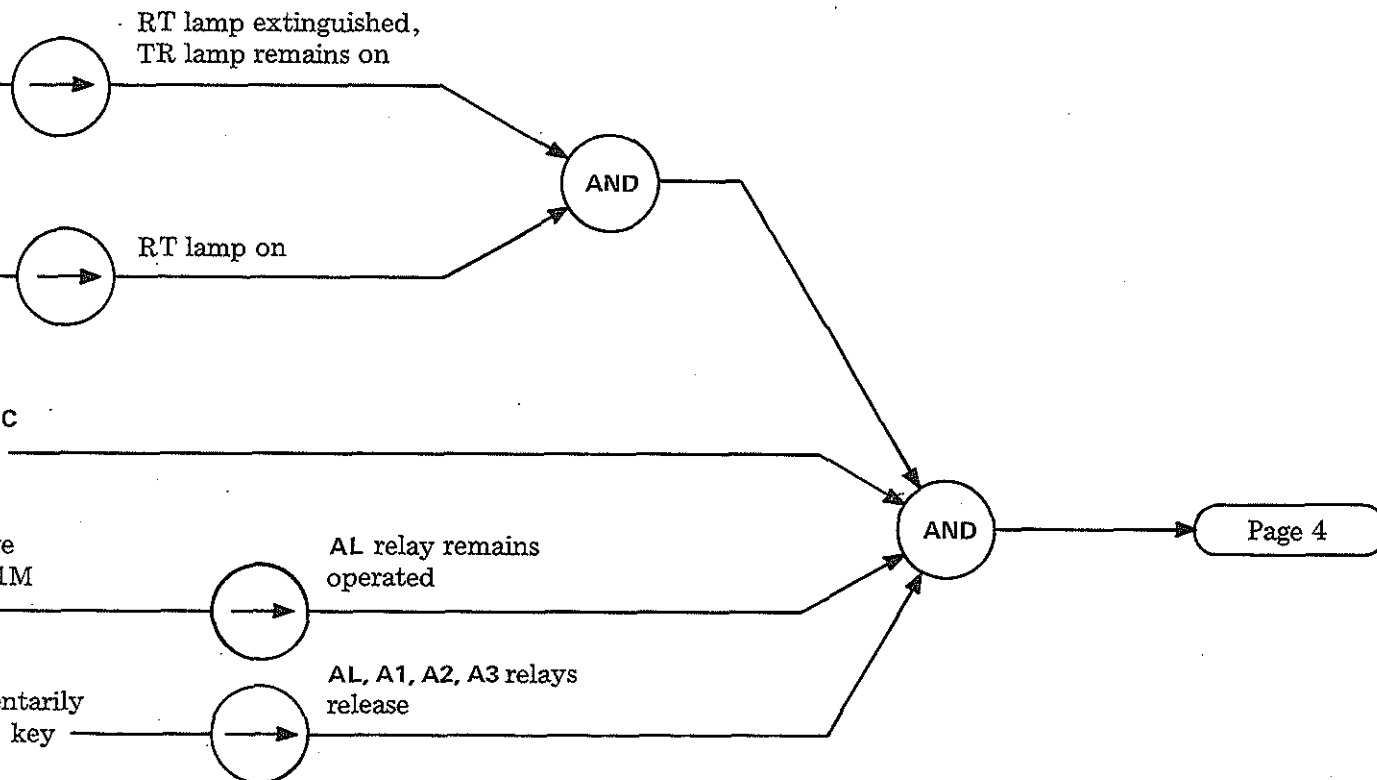
[11] At MB-BD, push in
REG 0 make-busy key.
(If MB-BD is not
provided, remove 258-
type MB plug from
REG 0 test jack)

[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

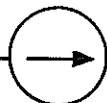


TEST ALARM COUNTING, RELEASING, AND LOCK-IN

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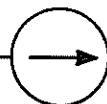
At slide 1:

[16] Ground 11B contact
of A2 relay



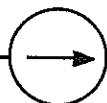
A1 relay
operates

[17] Remove ground from
11B of A2 relay



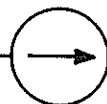
A2 and A3 relays
operate

[18] Insulate contact
12M of A2 relay



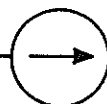
A4 relay operates
A1 relay releases

[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

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

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

AND

HO relay (1AB)
momentarily operates

AND

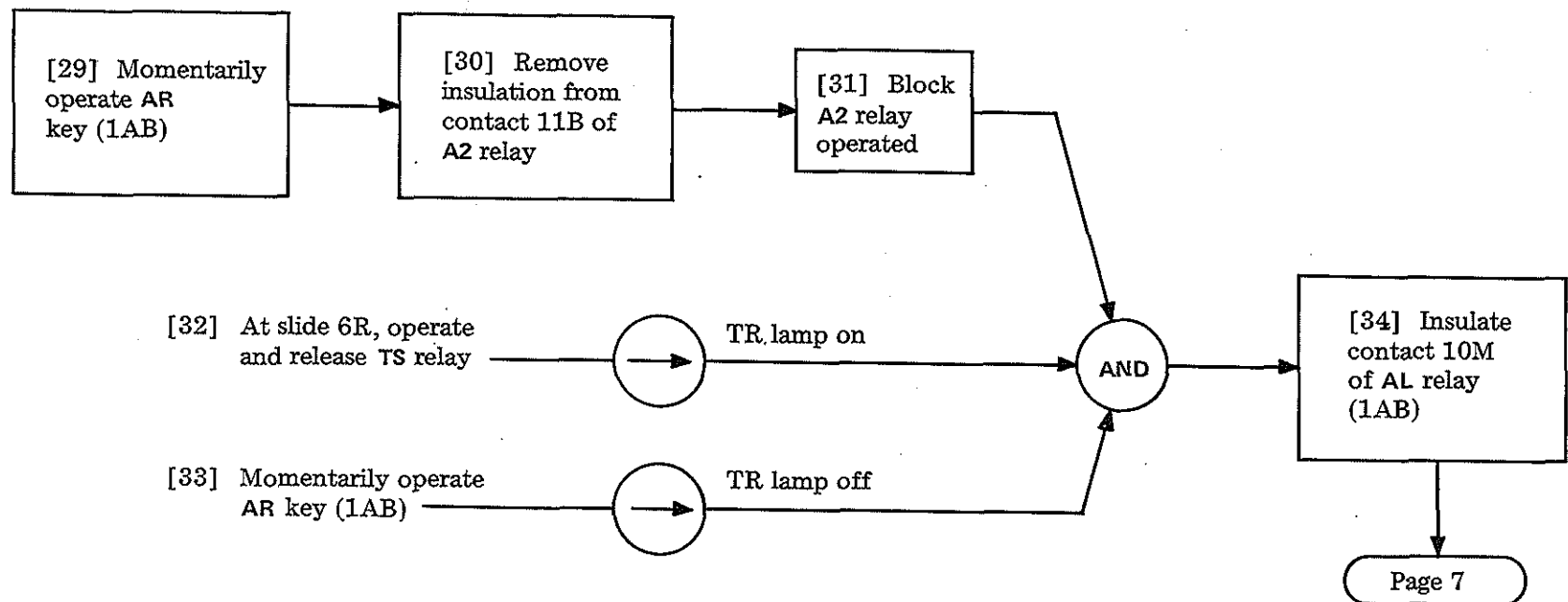
TR lamp lights

AND

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TEST ALARM COUNTING, RELEASING, AND LOCK-IN

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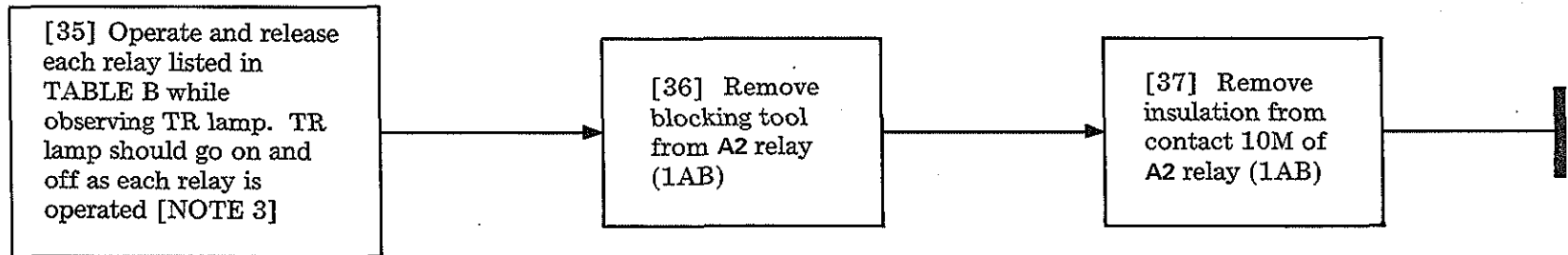


TABLE B	
RELAY	LOCATION
MAL	1AB
COAL*	1AB
XCAL*	1AB
UAL2	1AA
UAL	1AA
RLAL	1AA
TAAL	1AA
JRAL	1AA
TAL	1AA
TRAL	1AA
LAL1	1AA
LAL2A	1AA
UAL1A	1AA
* SD-65741, Issue 33 or later.	

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)

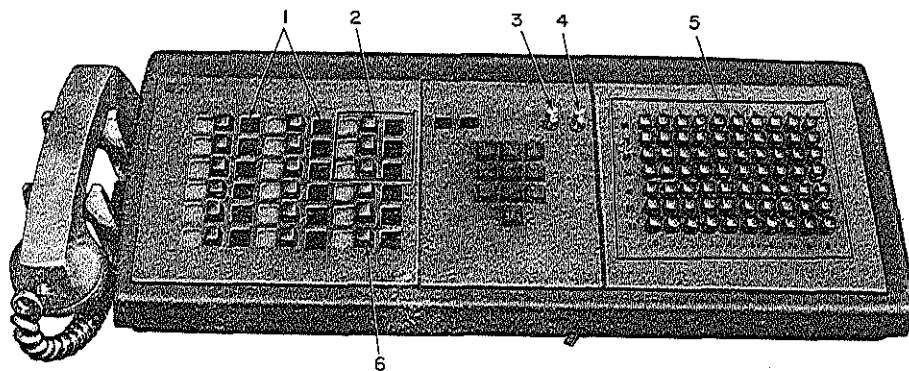
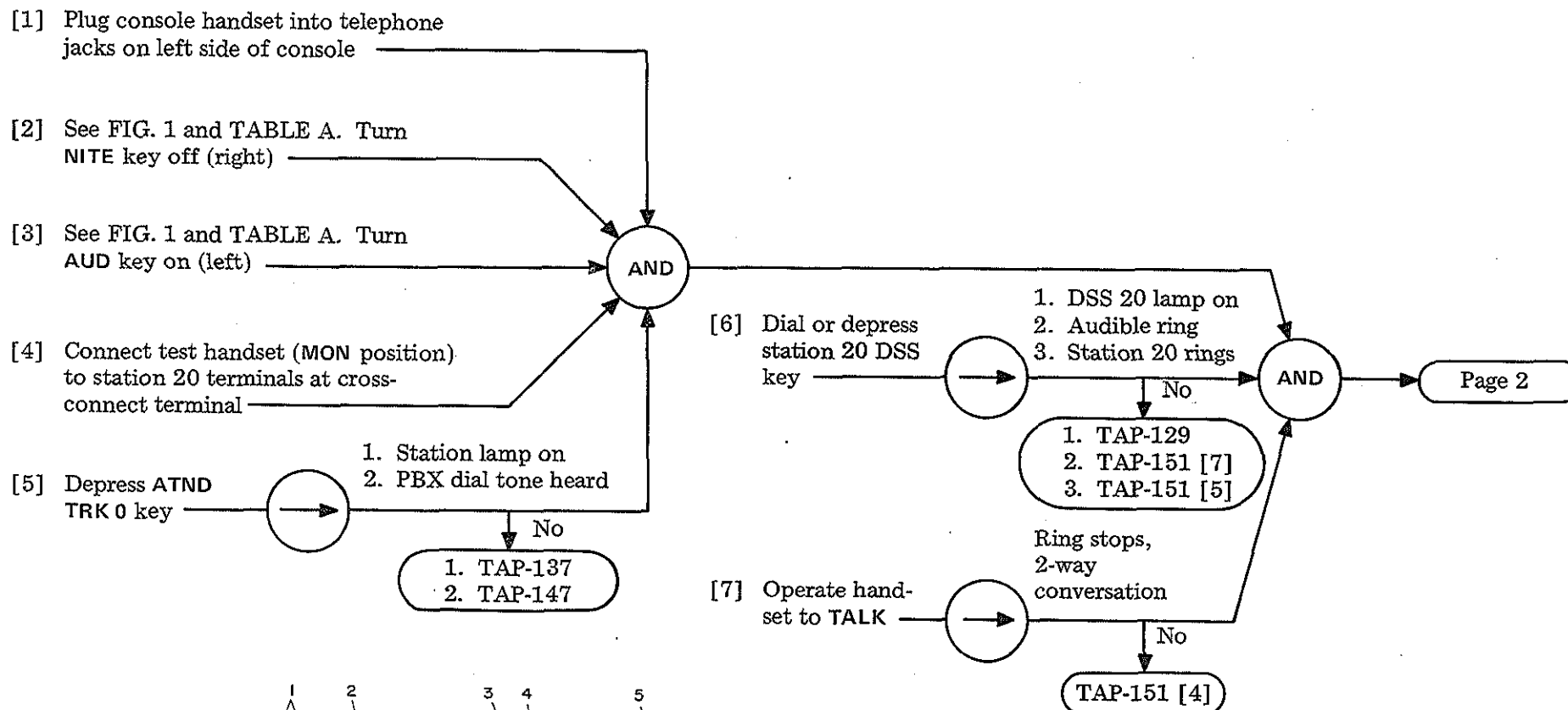
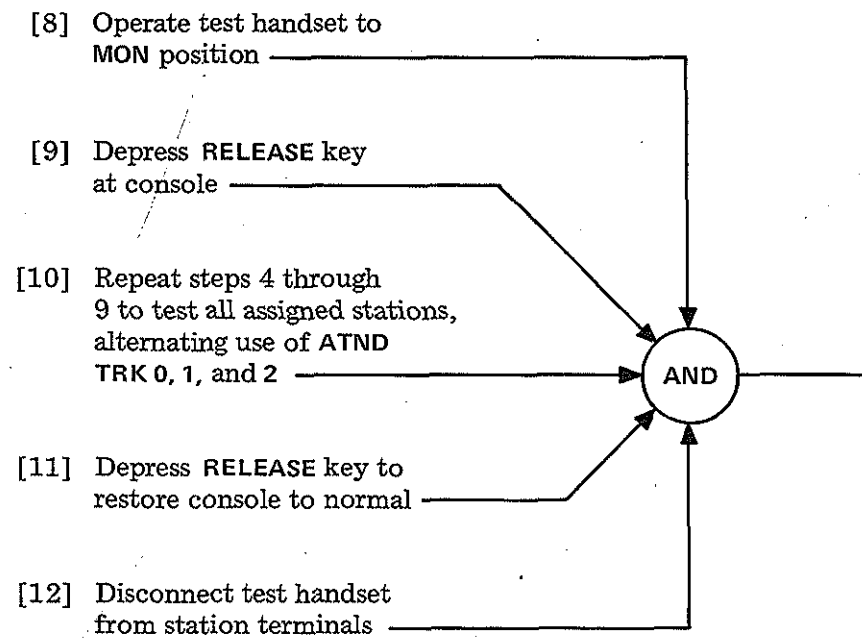


FIG. 1-4-Type Console

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

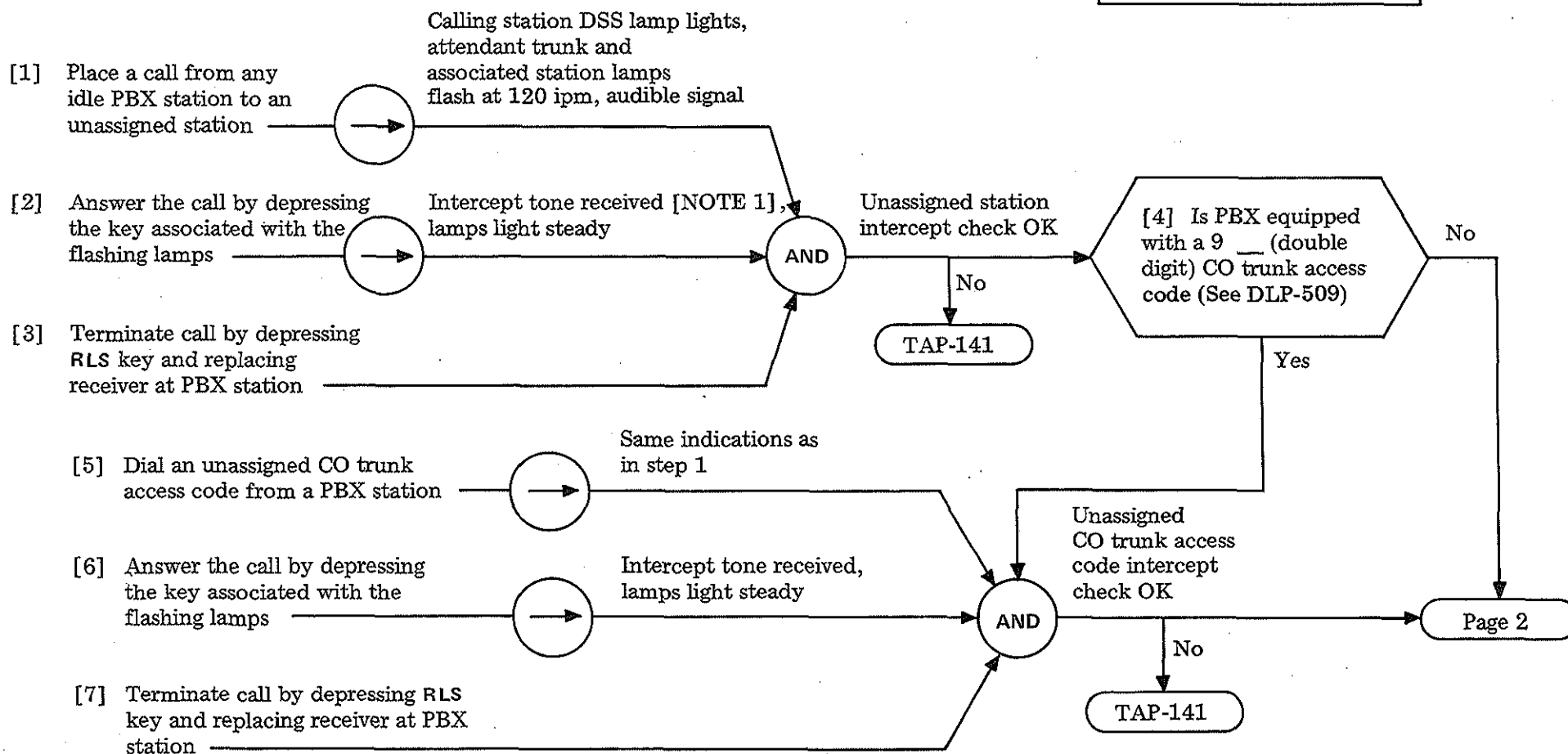
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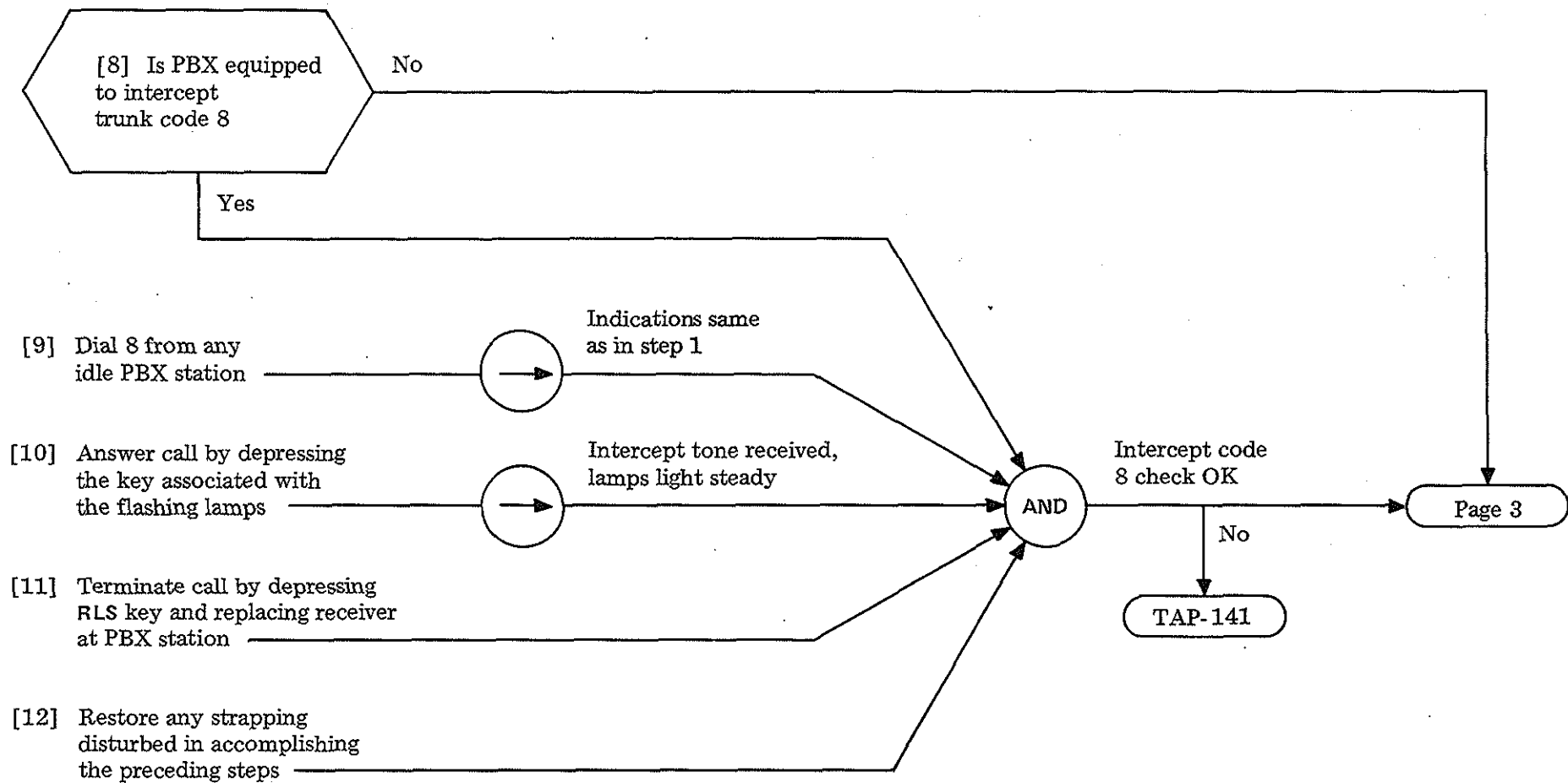
SUMMARY

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

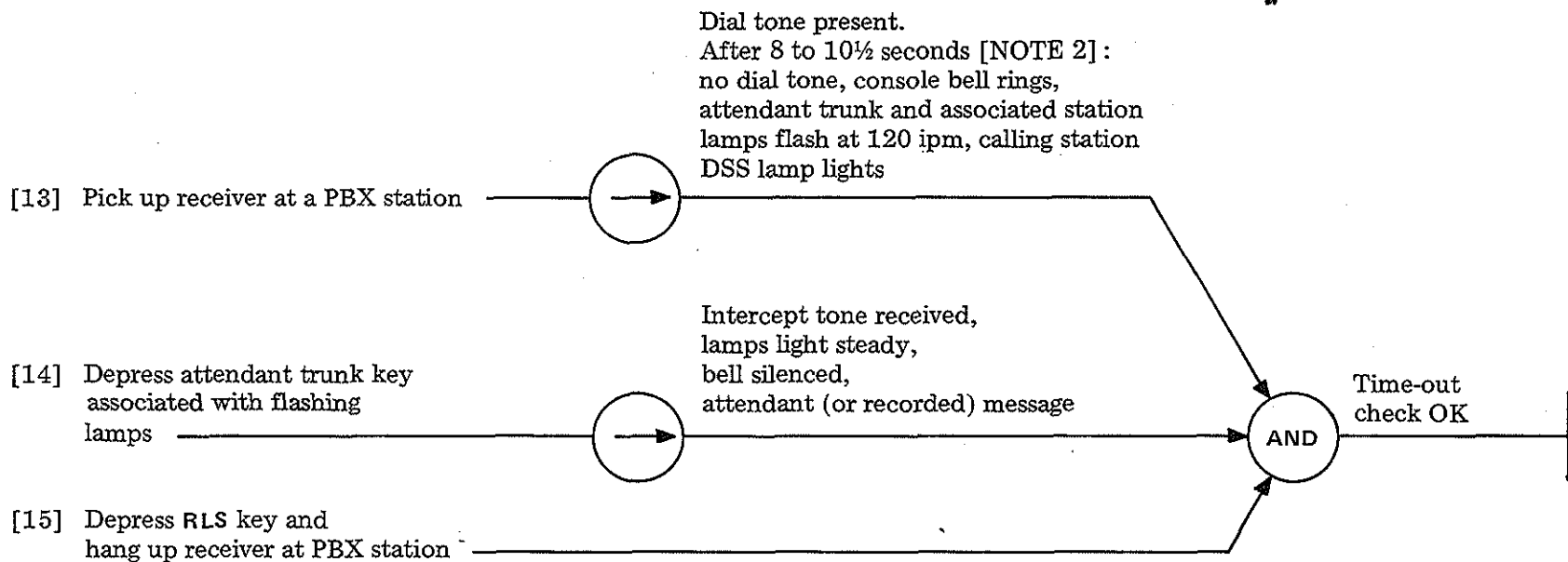
The intercept tone is a very brief burst of tone indicating to the attendant and to the calling station that this is an intercepted call.





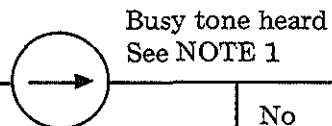
TEST FOR INTERCEPT AND TIME-OUT

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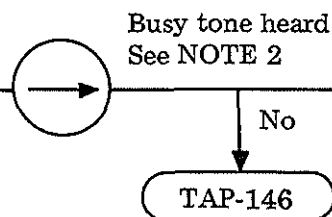


NOTE 2
Exact time required
for time-out to
occur will vary with
traffic conditions.

[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

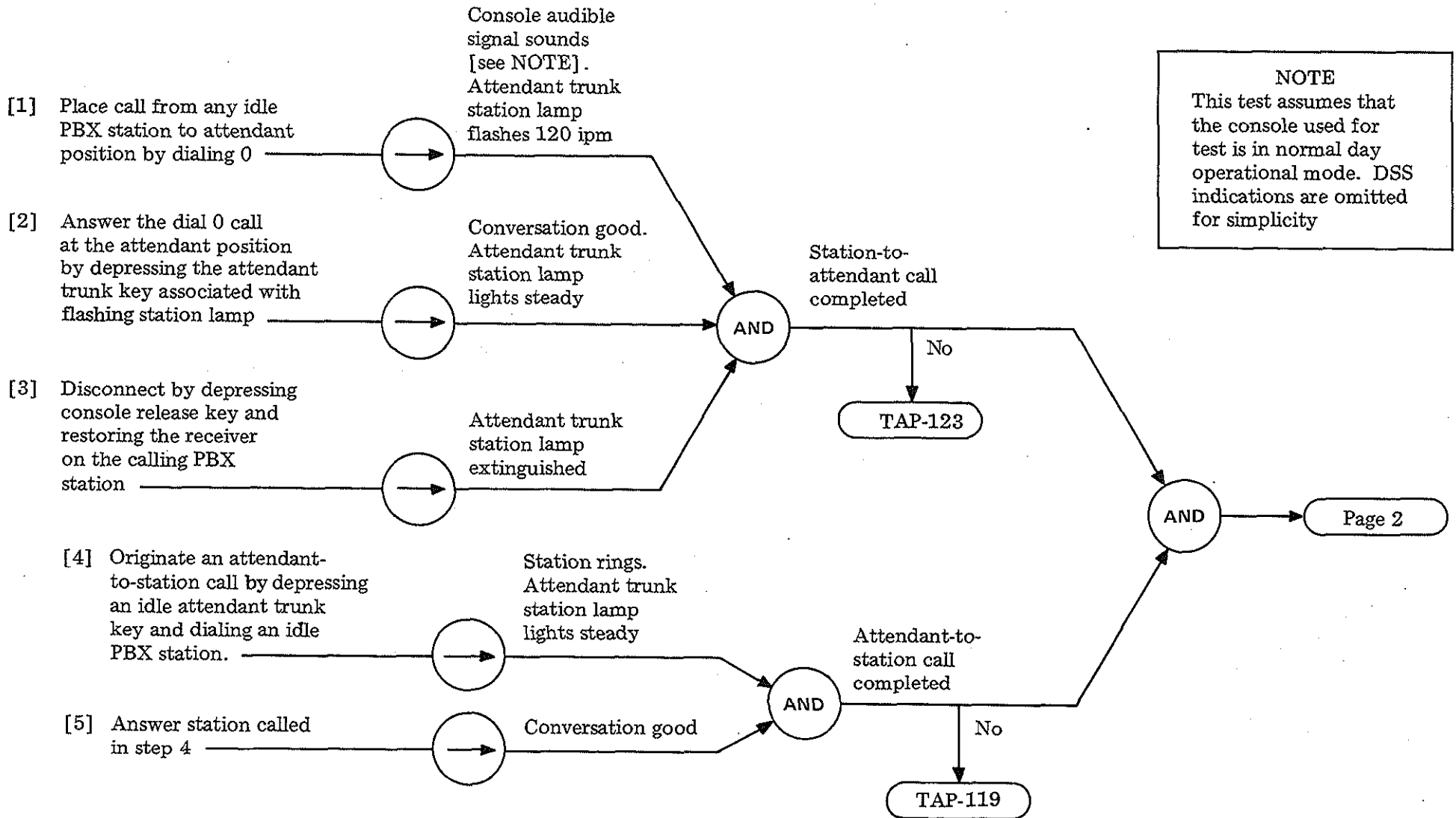
AND

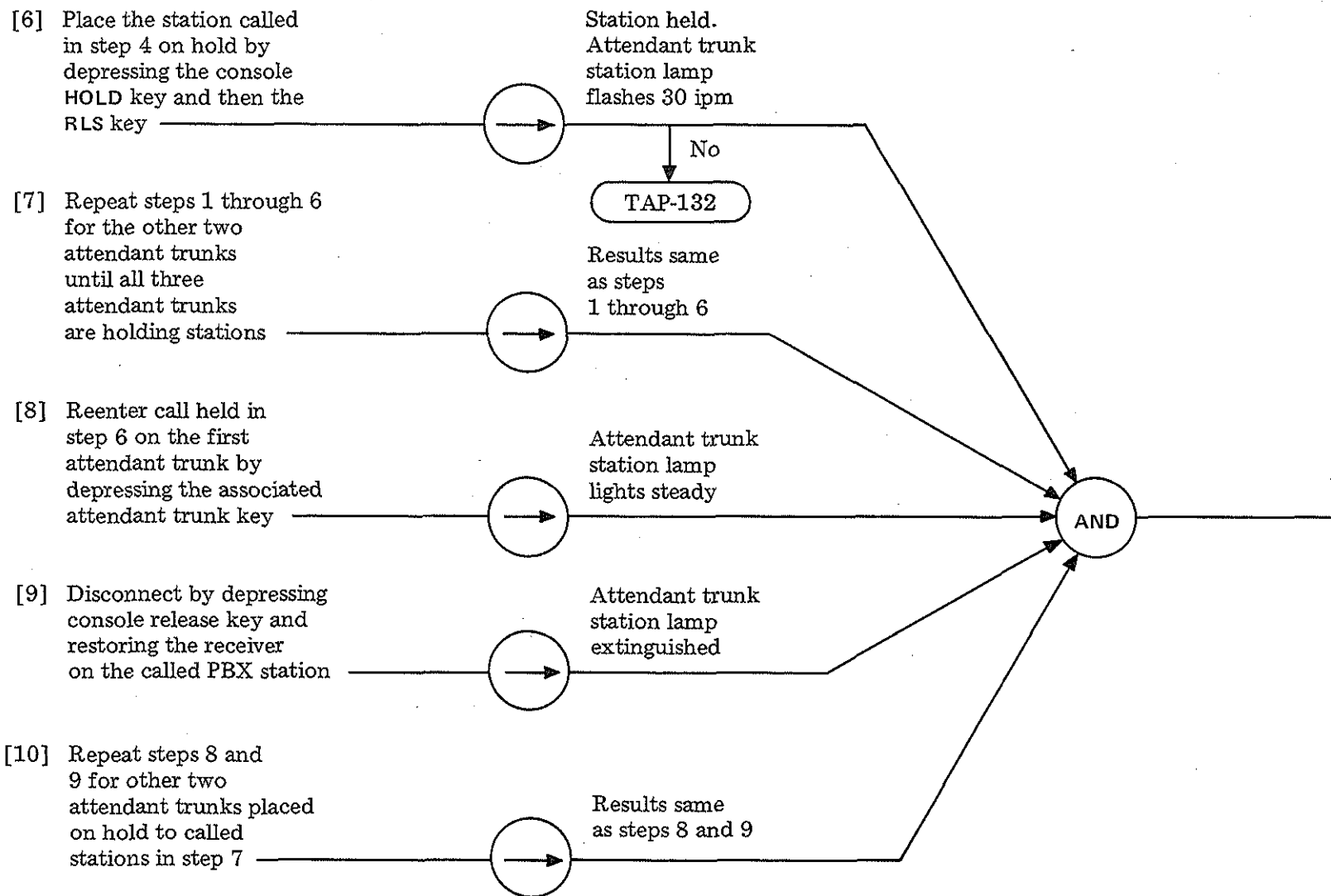
NOTES

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

TEST BUSY-TONE TRUNK

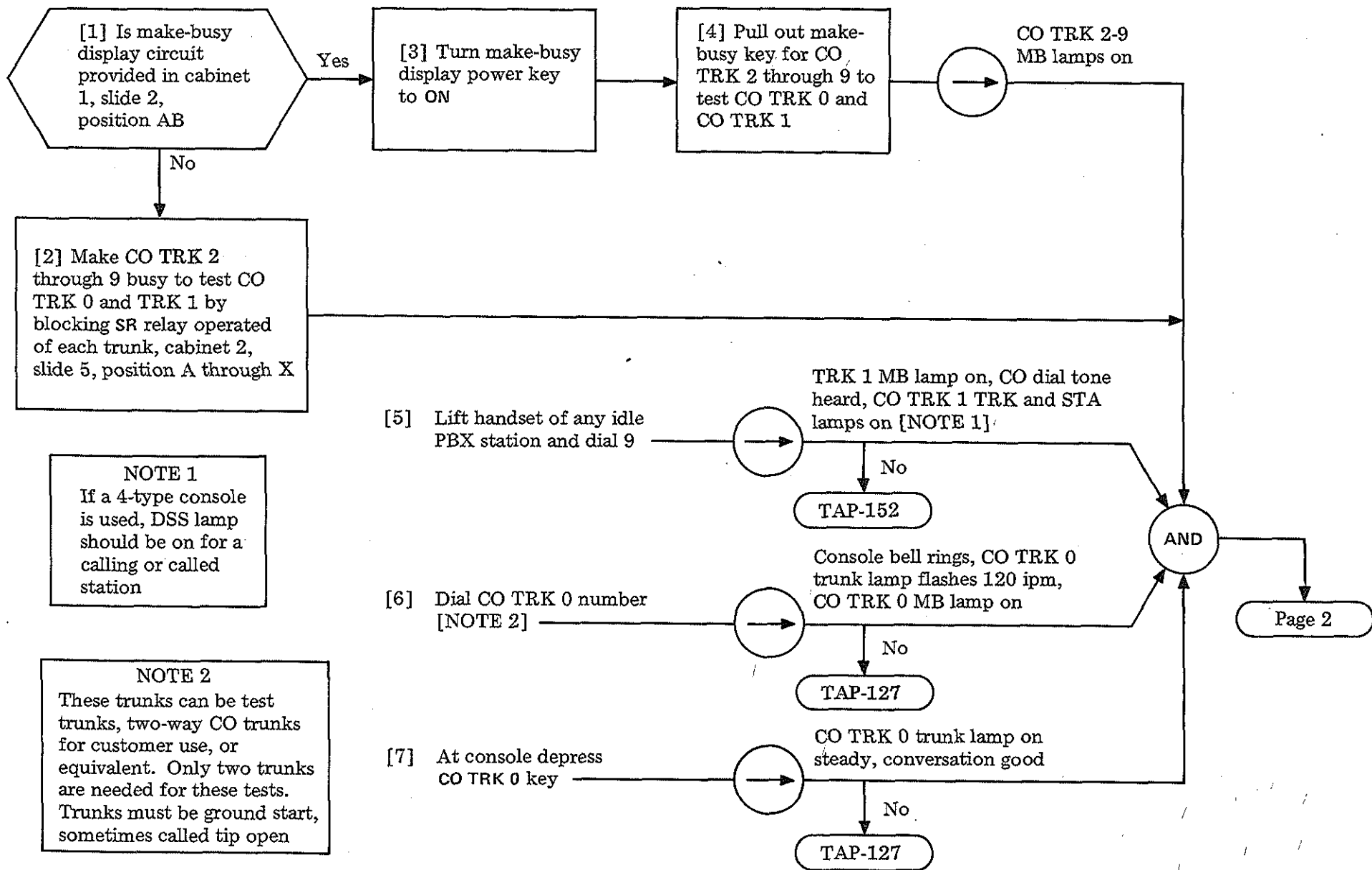
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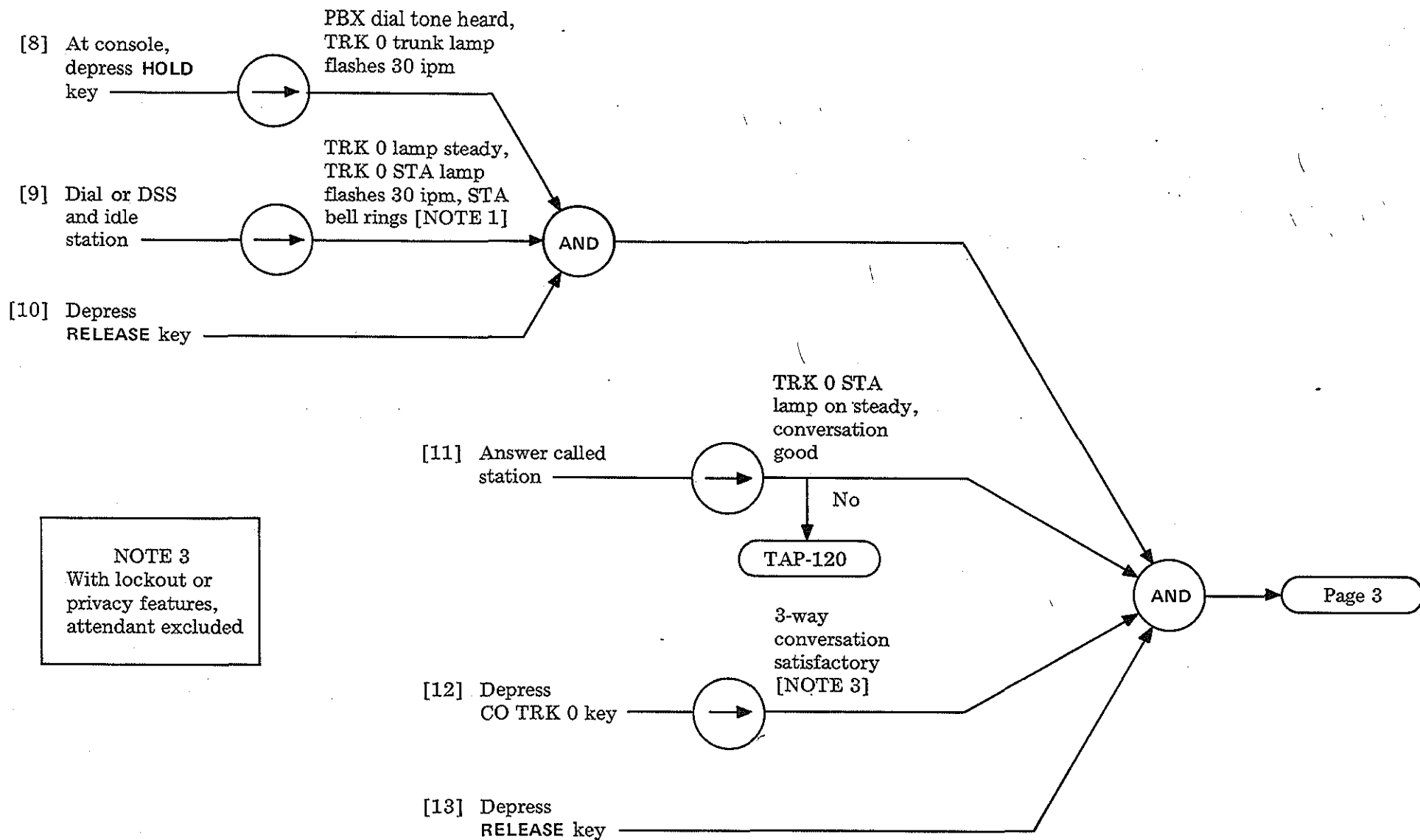


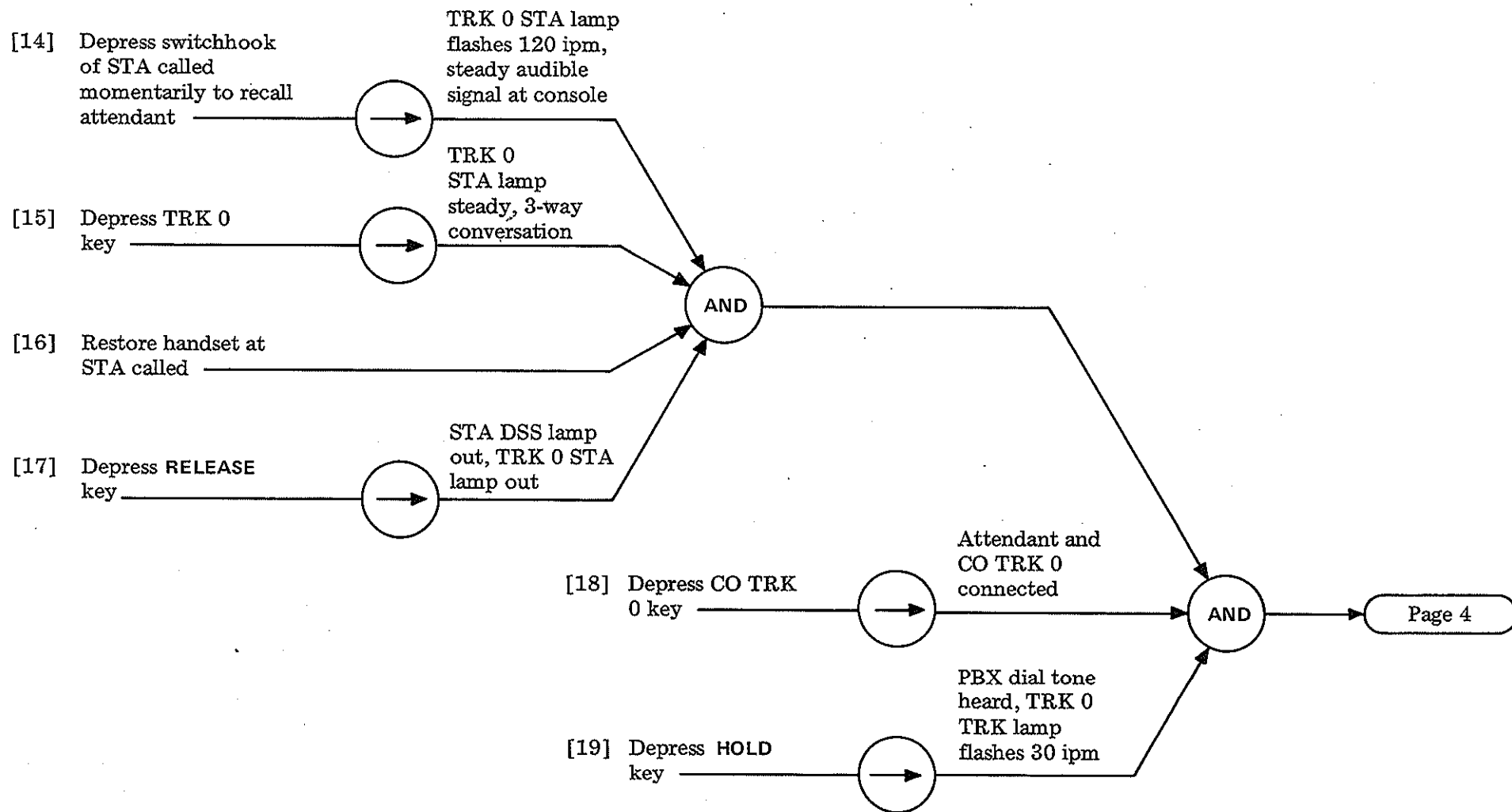


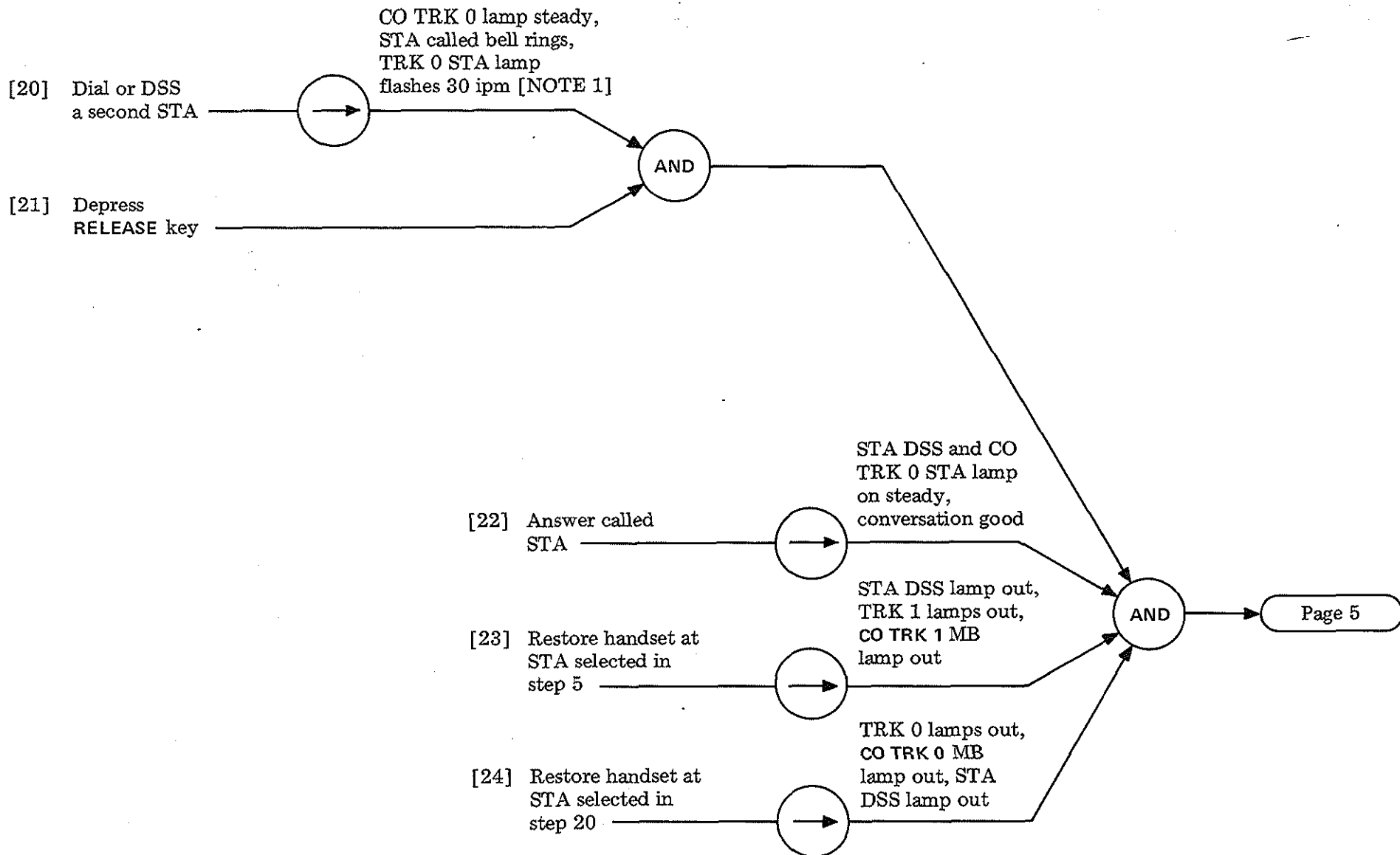
TEST ATTENDANT TRUNKS

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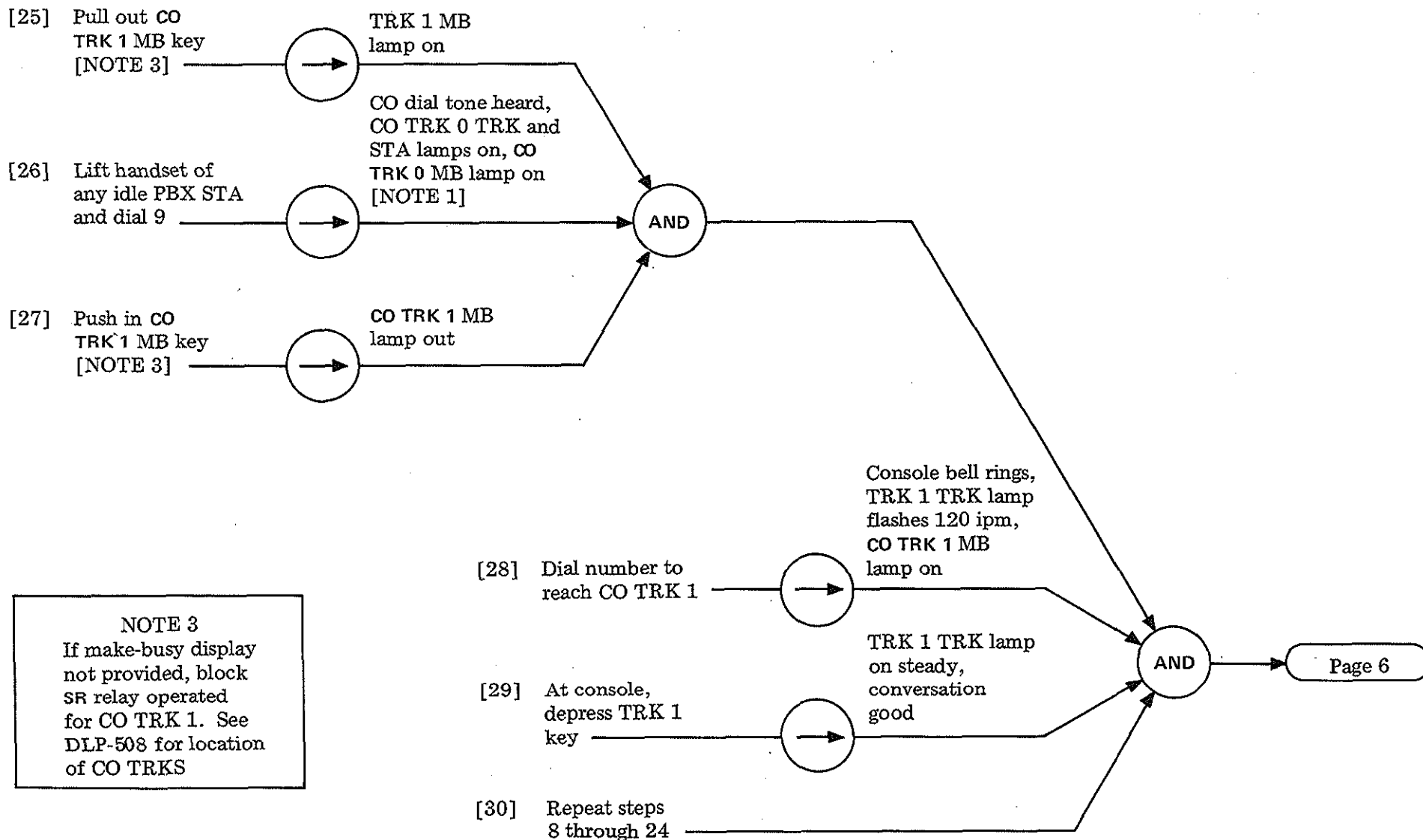




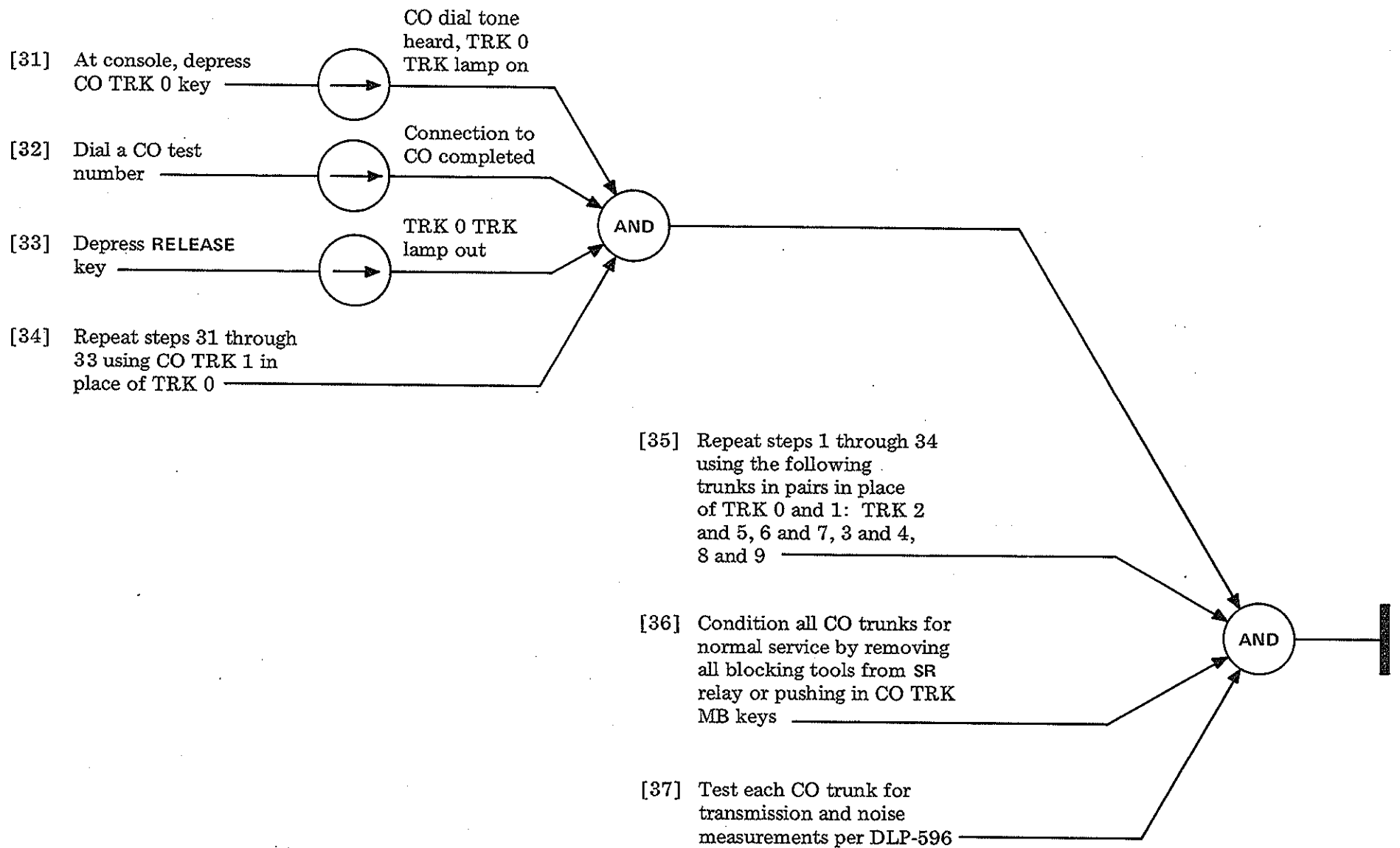


TEST CENTRAL OFFICE TRUNKS (SD-65752)

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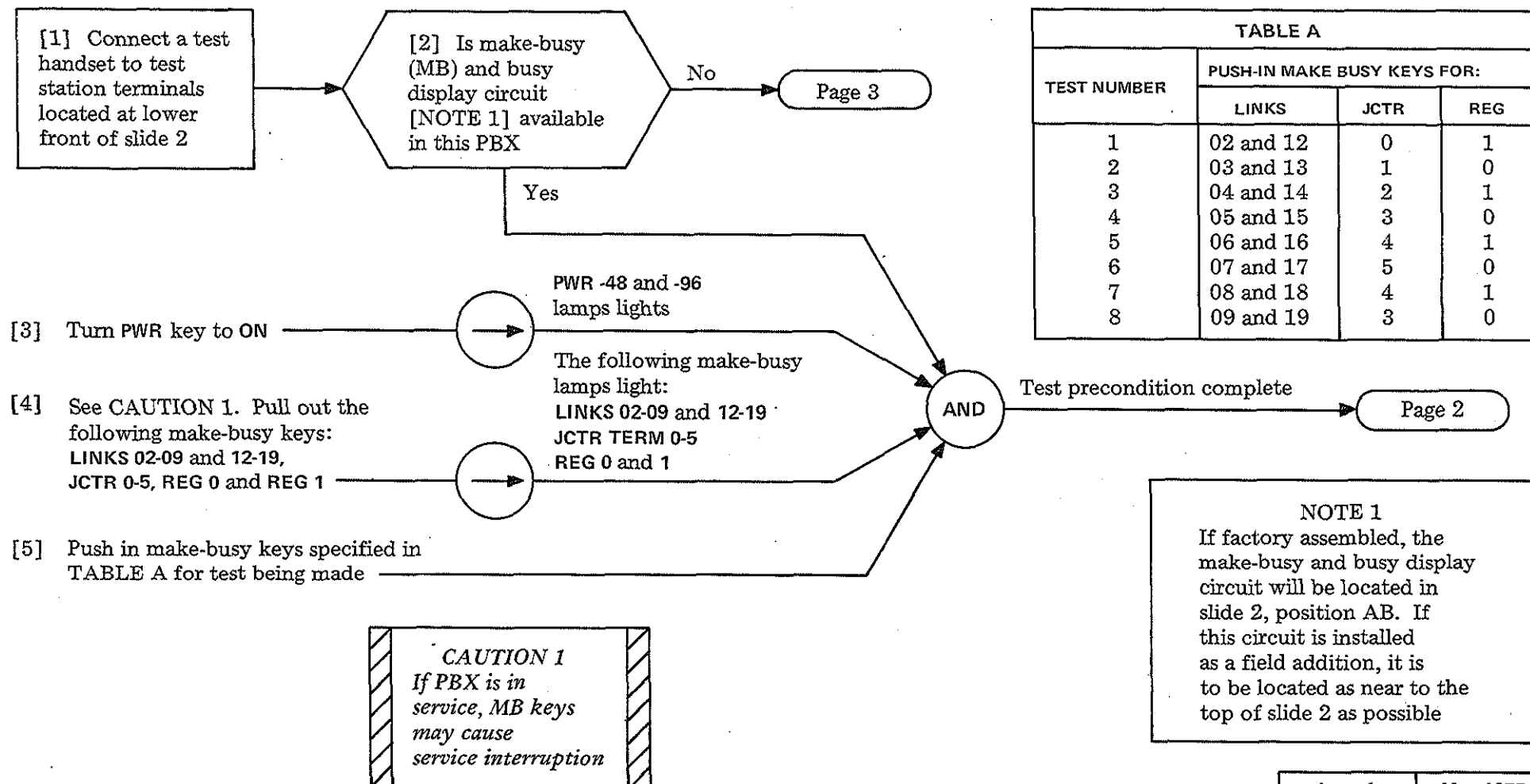
NOTE 3
If make-busy display not provided, block SR relay operated for CO TRK 1. See DLP-508 for location of CO TRKS



SUMMARY

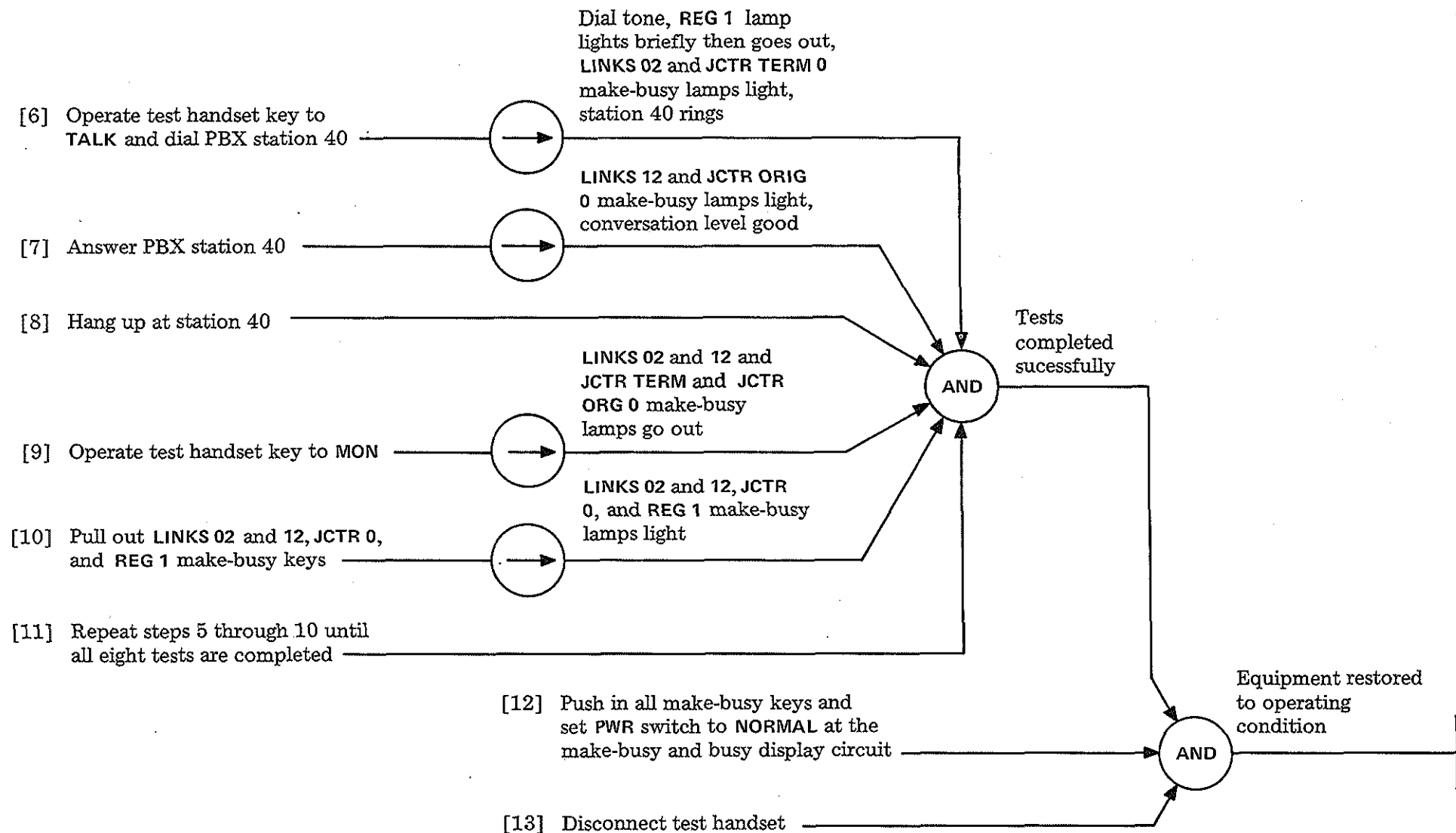
This procedure provides a method of checking that a specific link, junctors, and register can be seized and operate properly during the process of placing, answering, and terminating a call from one PBX station to another. PBX stations 30 and 40 are arbitrary

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.



TEST LINKS, JUNCTORS, AND REGISTERS FOR CALL THROUGH

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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

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

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

- [22] Disconnect test handset

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

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

AND

AND

Page 2

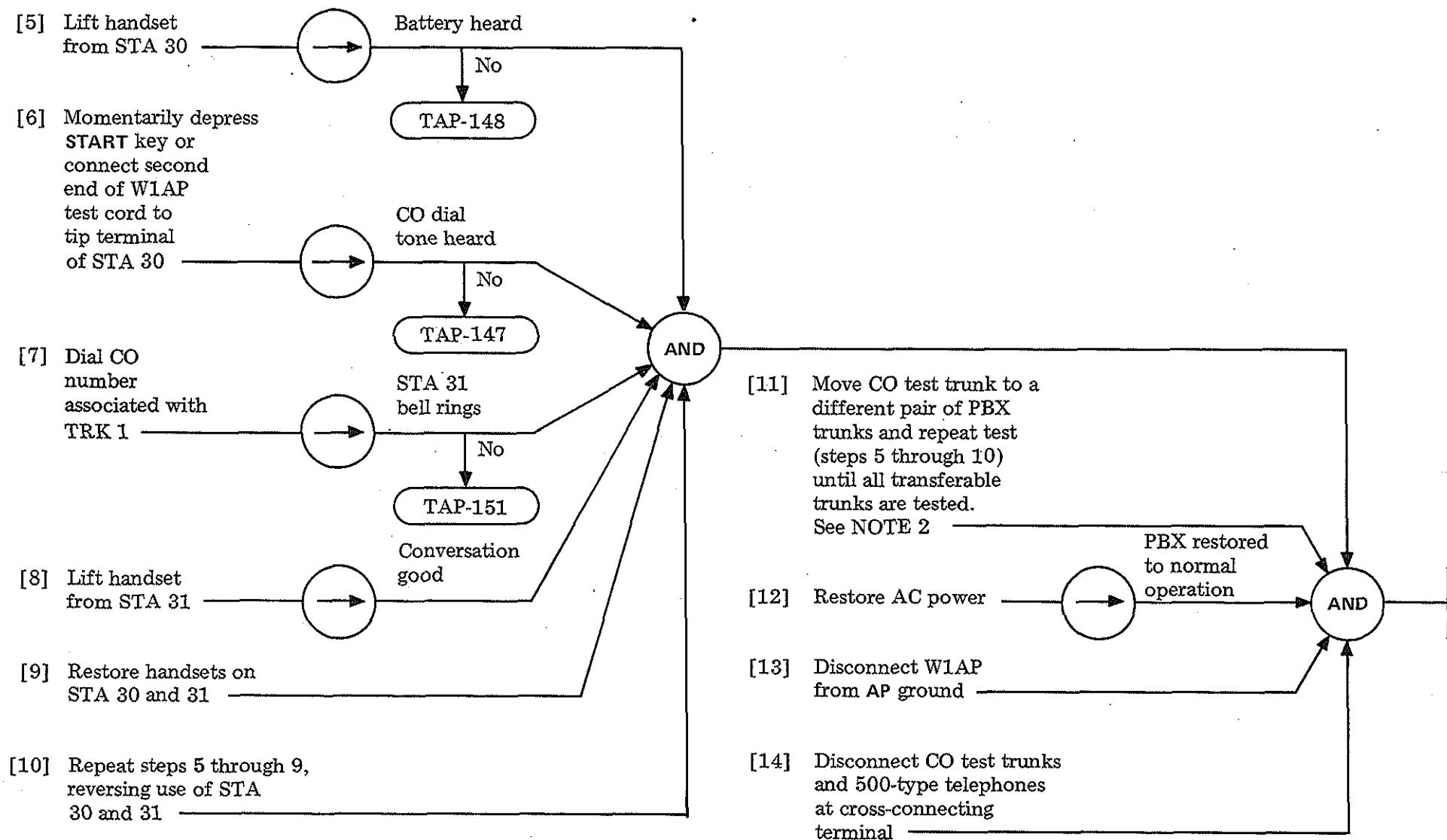
Power lost to PBX, CO TRK [NOTE 3] transferred to STA

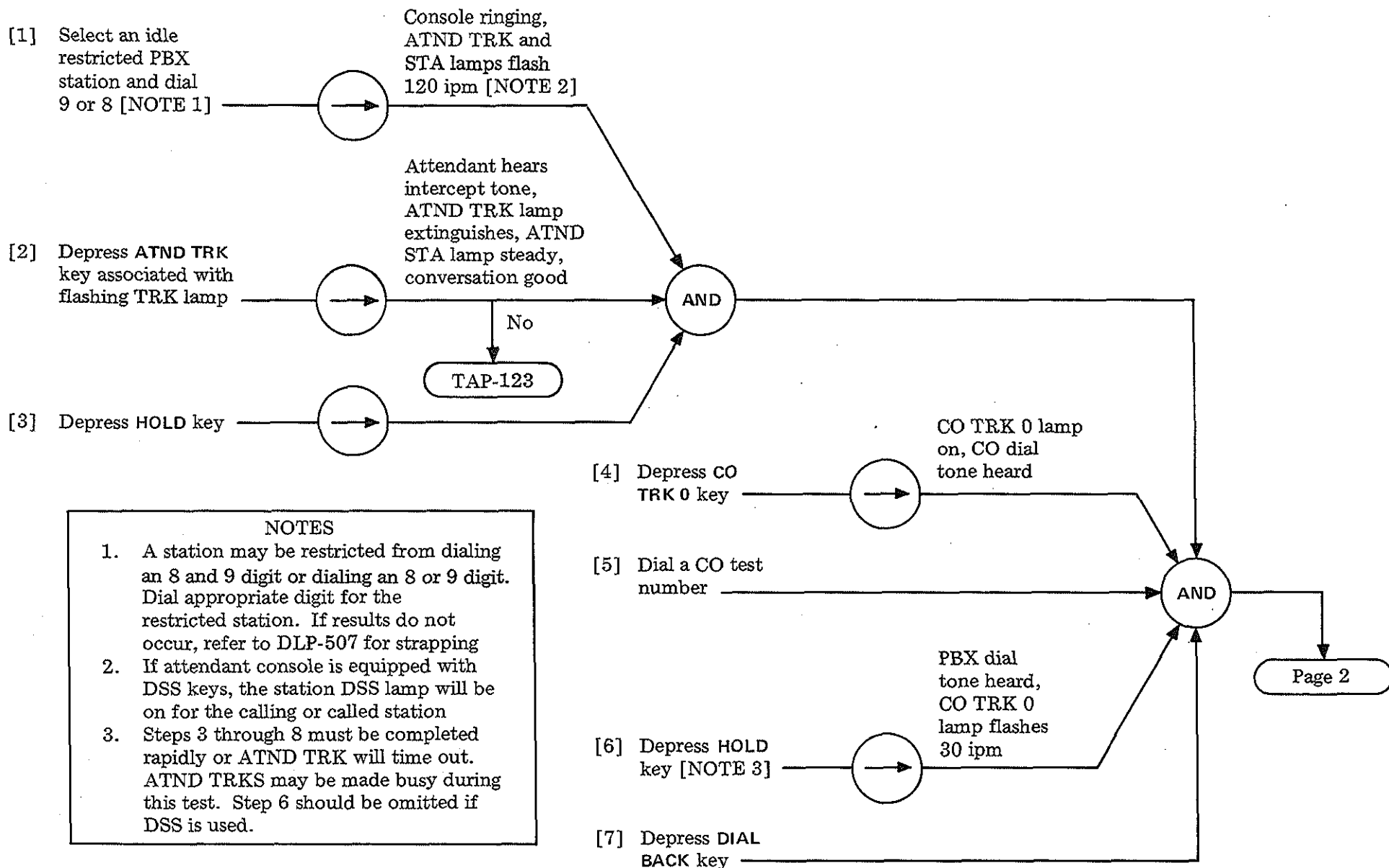
CAUTION

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

TEST POWER FAILURE TRANSFER

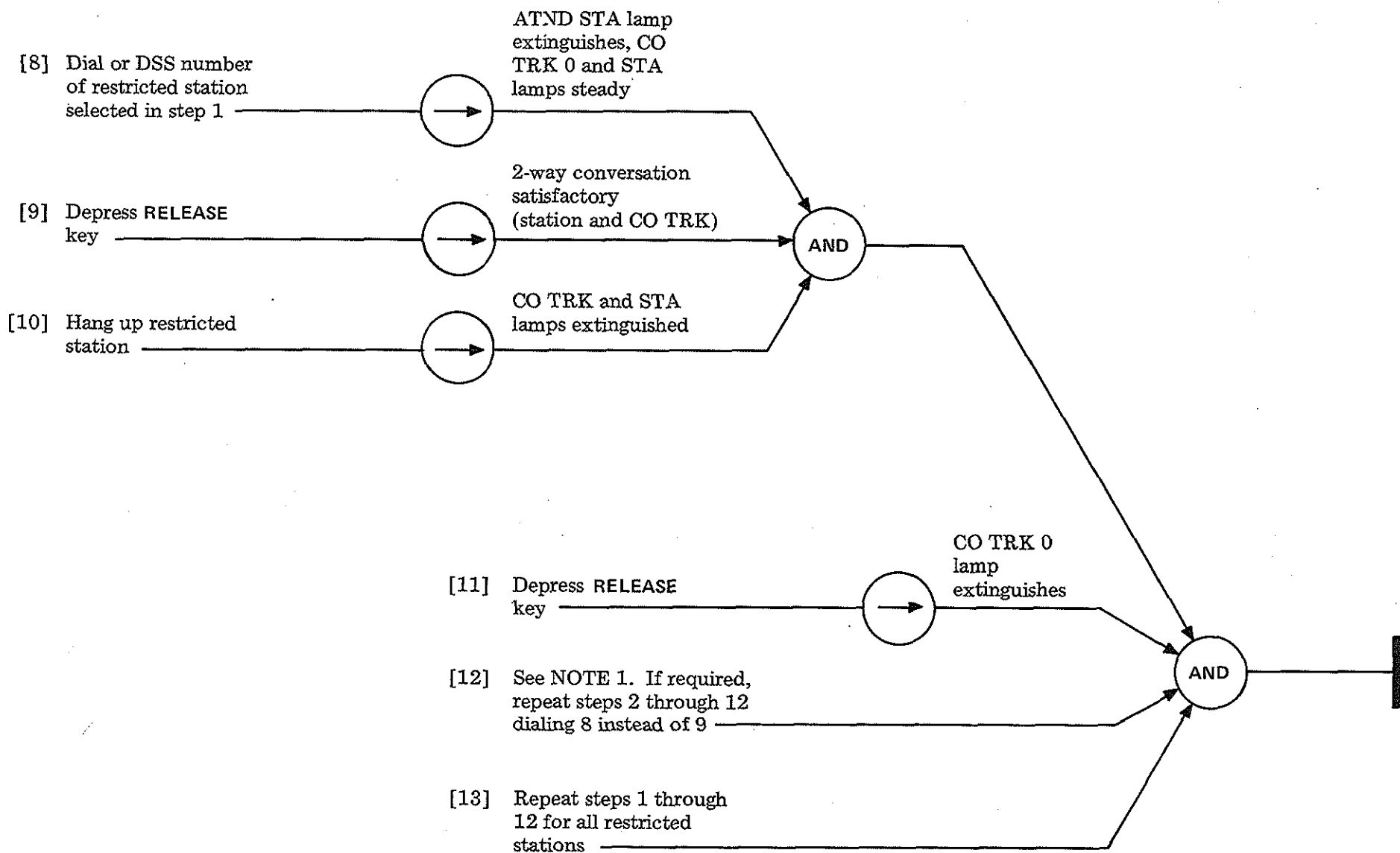
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TEST RESTRICTED STATIONS

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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

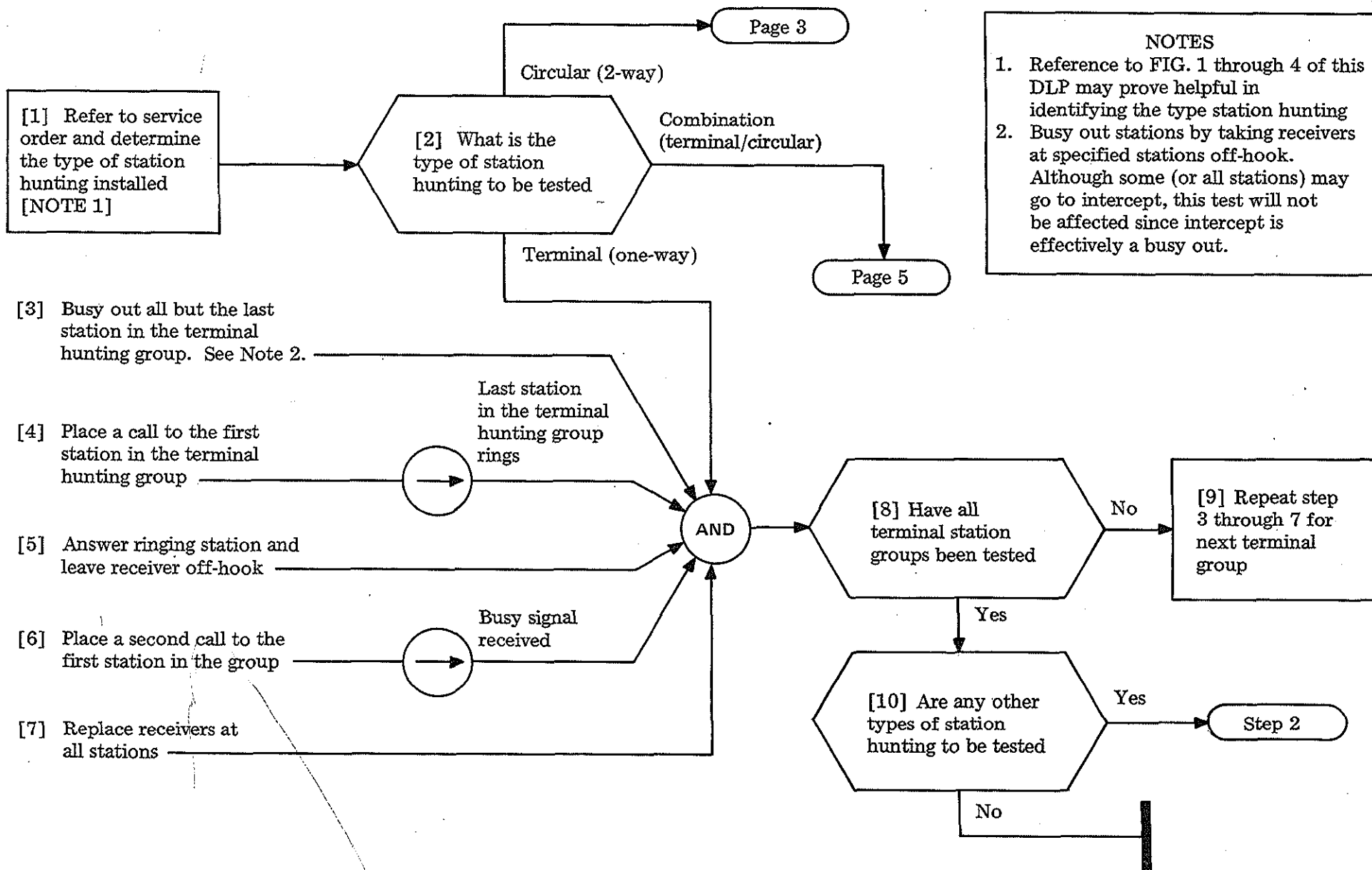
[7] Repeat steps 2 through 6 for each
of the PBX stations determined
in step 1

AND

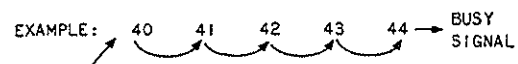
Test
complete

TEST TOLL DENIED STATIONS

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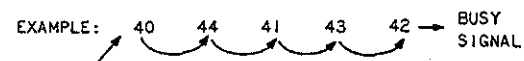


A. CONSECUTIVE (ASCENDING NUMERICAL SEQUENCE)



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.

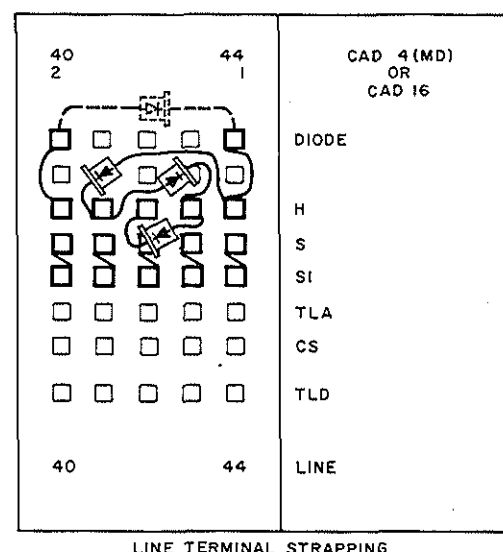
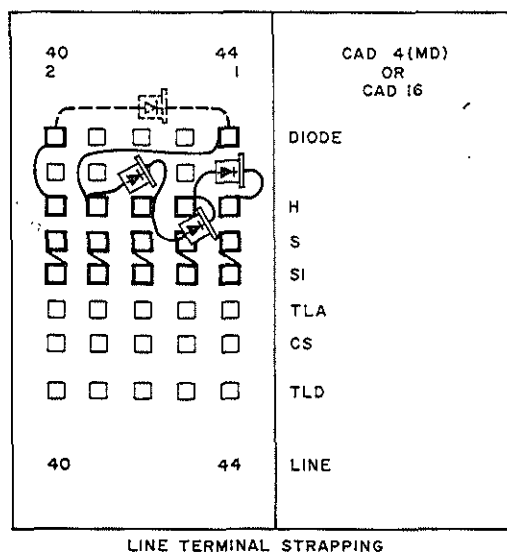
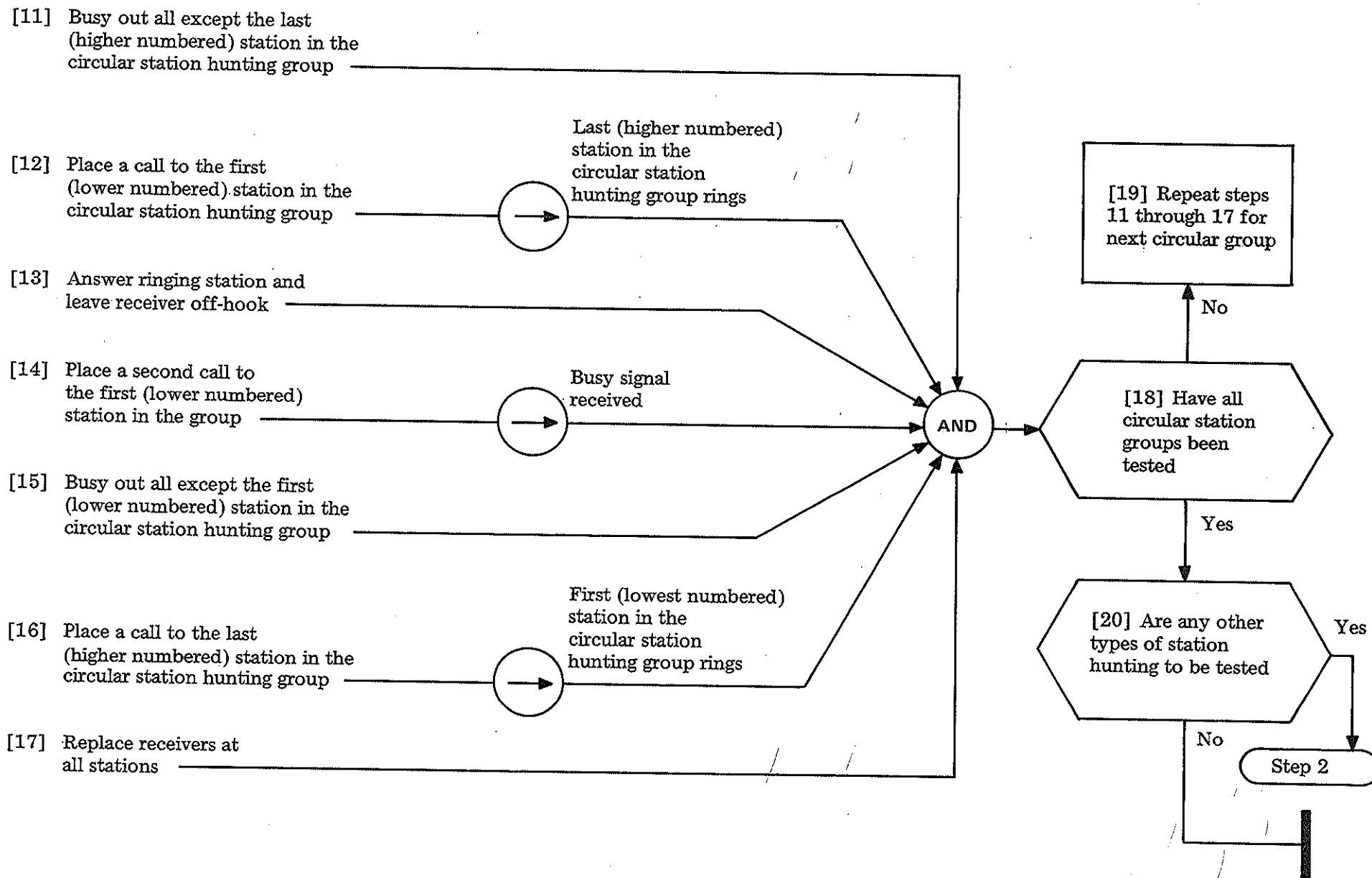
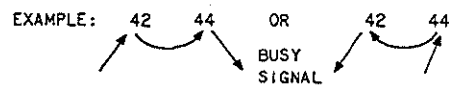


FIG. 1 — Terminal (One-Way) Station Hunting — Example

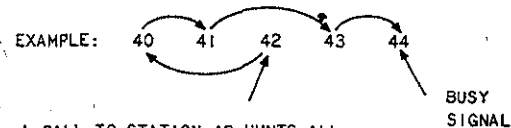


A. 2-STATION LINE HUNT

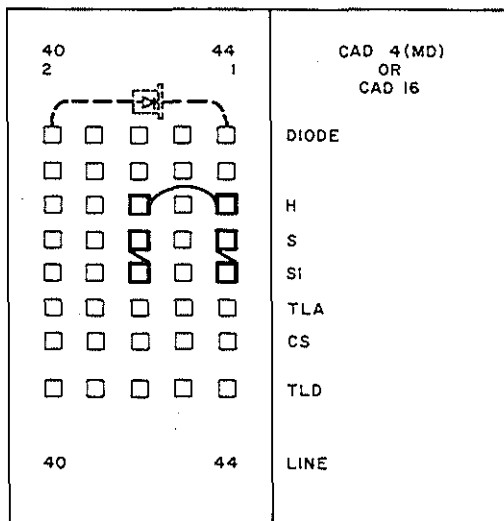


A CALL TO STATION 42 HUNTS TO STATION 44 OR A CALL TO STATION 44 HUNTS TO 42. IF NEITHER STATION IS IDLE, BUSY SIGNAL IS RETURNED FROM THE LAST STATION HUNTED.

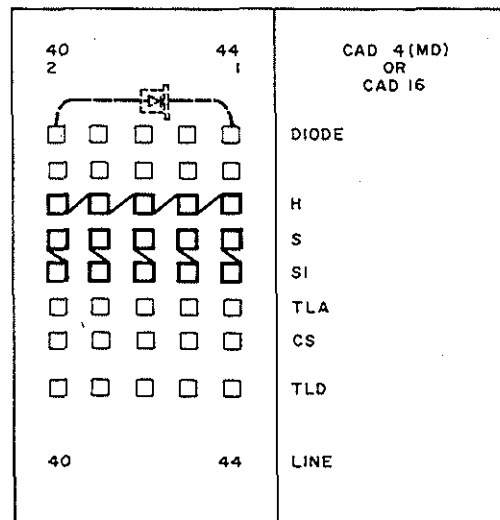
B. MULTILINE HUNT



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, BUSY SIGNAL IS RETURNED FROM THE LAST STATION HUNTED - STATION 44.



LINE TERMINAL STRAPPING

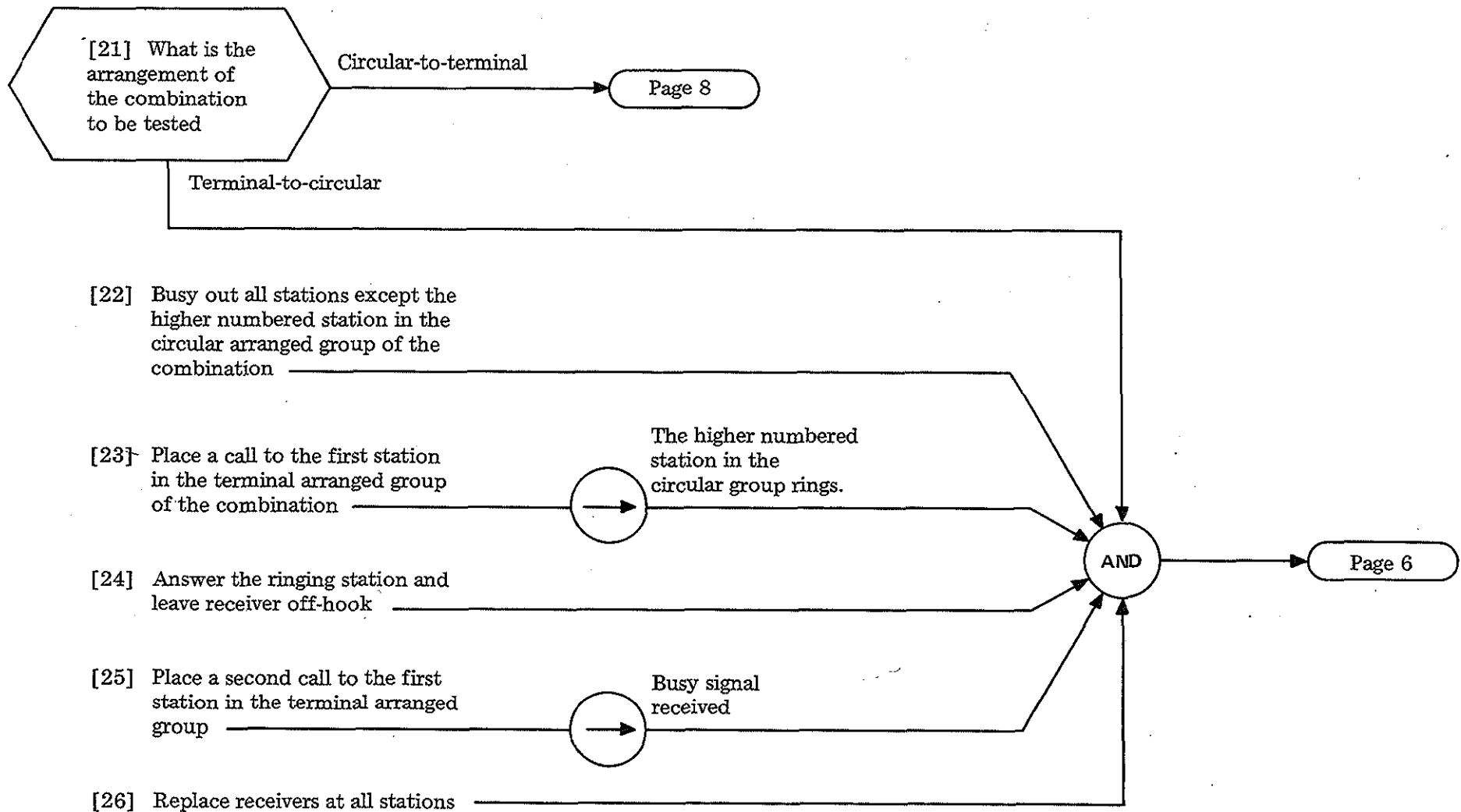


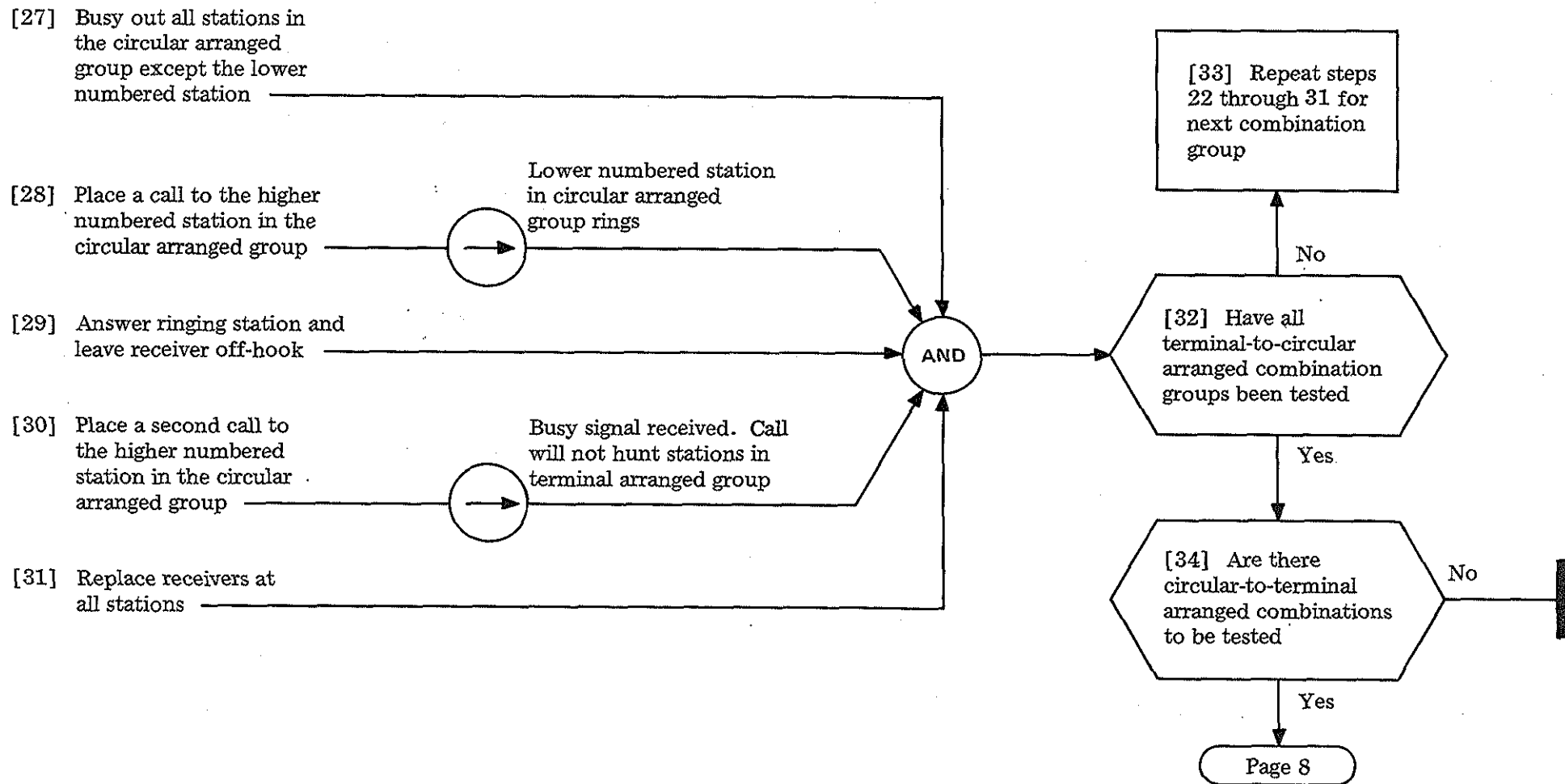
LINE TERMINAL STRAPPING

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

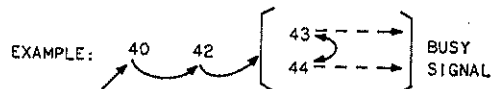
TEST STATION HUNTING GROUPS

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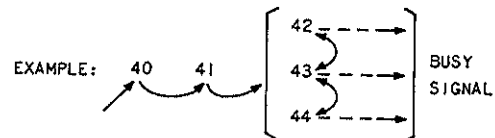


A. TERMINAL TO 2-STATION CIRCULAR

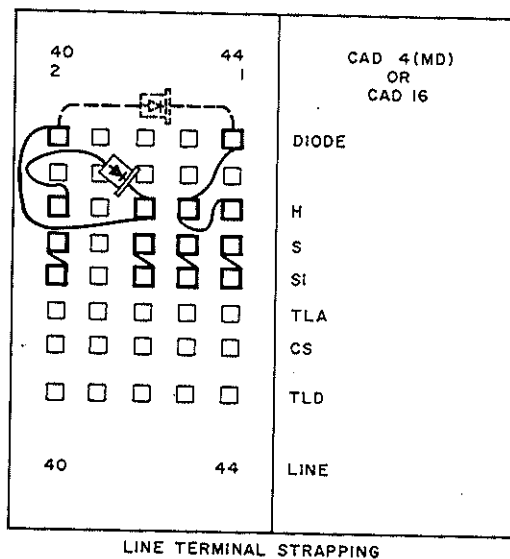


A CALL TO STATION 40, 42, OR 43 WILL HUNT IN THE ARRANGED ORDER TO 44. A CALL TO 44 WILL HUNT ONLY TO 43. BUSY SIGNAL WILL BE RETURNED FROM THE LAST STATION HUNTED - EITHER 43 OR 44..

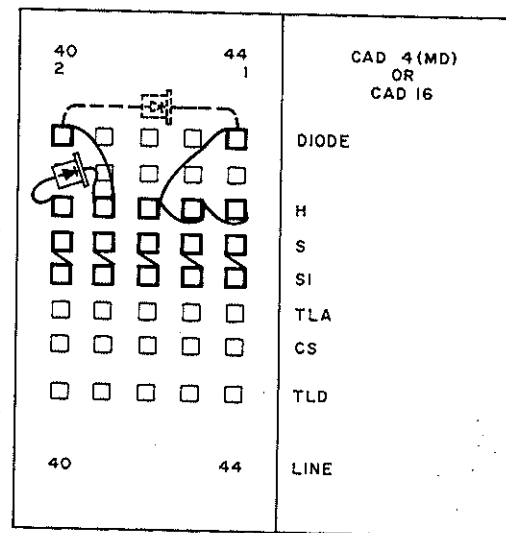
B. TERMINAL TO MULTILINE CIRCULAR



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.

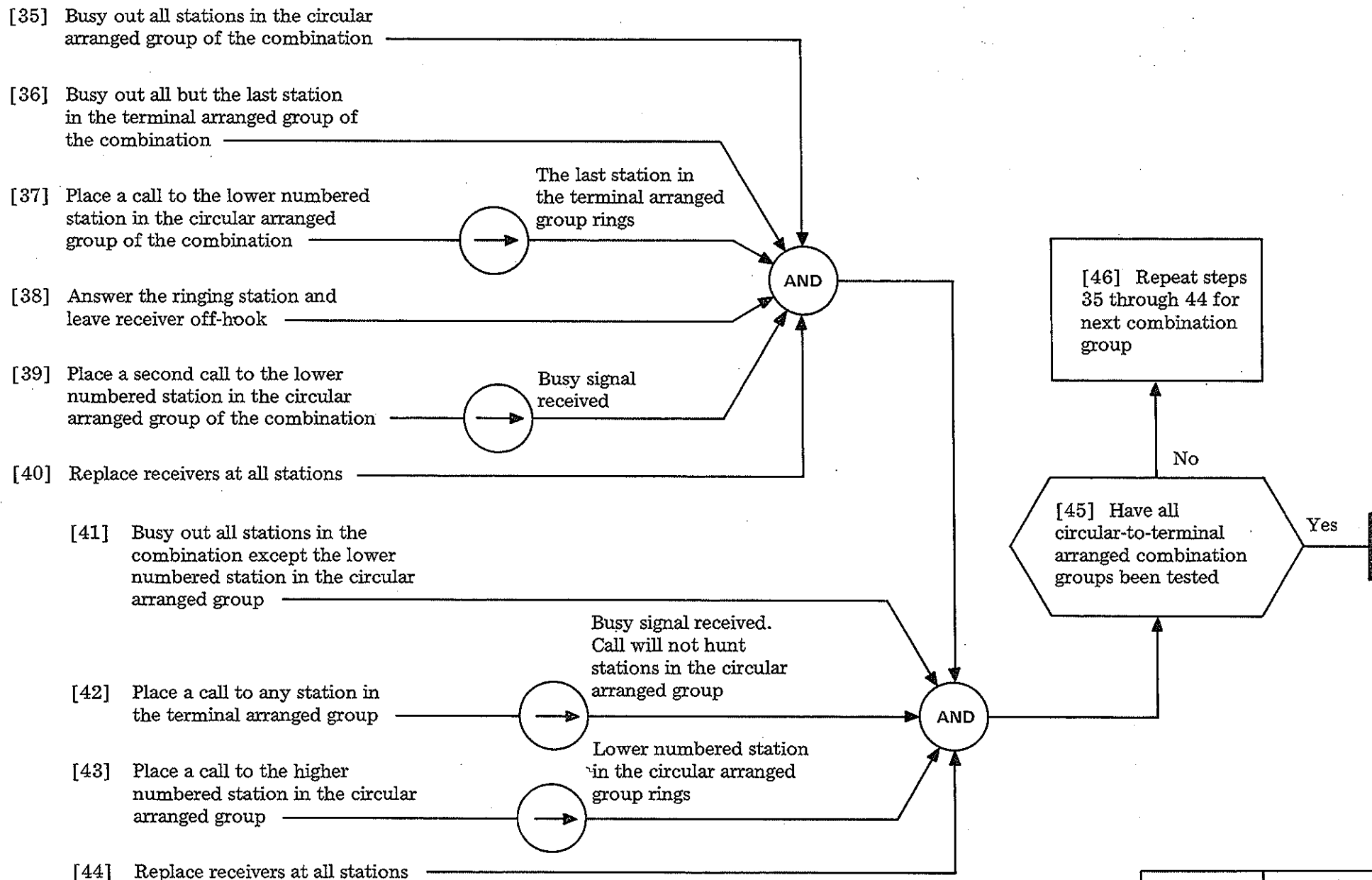


LINE TERMINAL STRAPPING



LINE TERMINAL STRAPPING

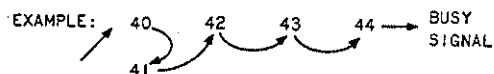
FIG. 3 - Combination Station Hunting, Terminal to Circular - Example



TEST STATION HUNTING GROUPS

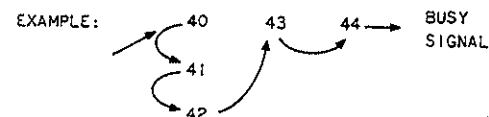
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A. 2-STATION CIRCULAR TO TERMINAL

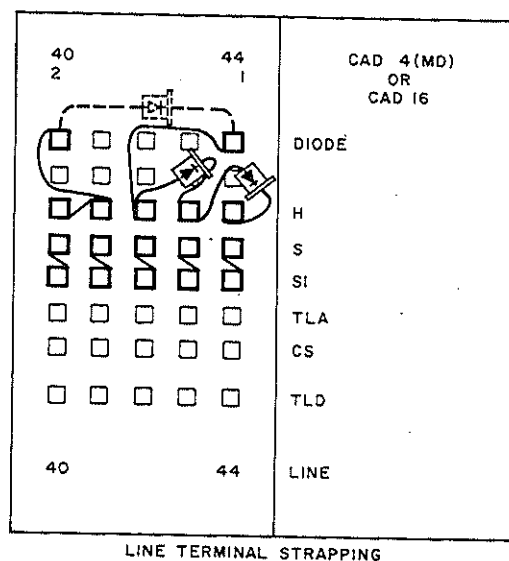


A CALL TO STATION 40 WILL HUNT TO 41, THEN TO 42, 43, AND 44. A CALL TO STATION 41 WILL HUNT FIRST TO 40, THEN TO 42, 43, AND 44. CALLS TO STATIONS 42 AND 43 WILL HUNT ONLY TO SUCCESSIVE NUMBERS. A CALL TO STATION 44 WILL NOT HUNT. BUSY SIGNAL WILL BE RETURNED FROM THE LAST STATION HUNTED - STATION 44.

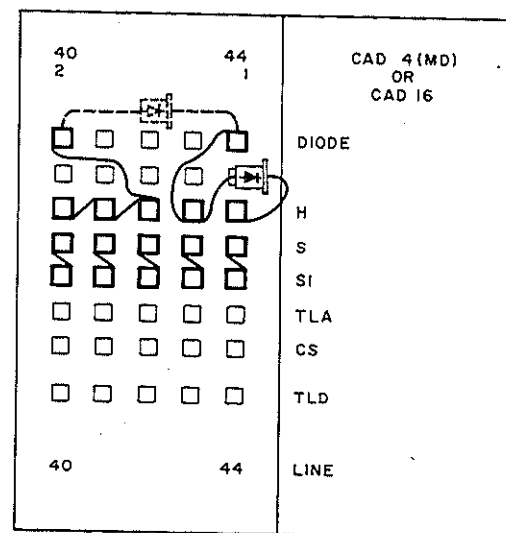
B. MULTILINE CIRCULAR TO TERMINAL



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

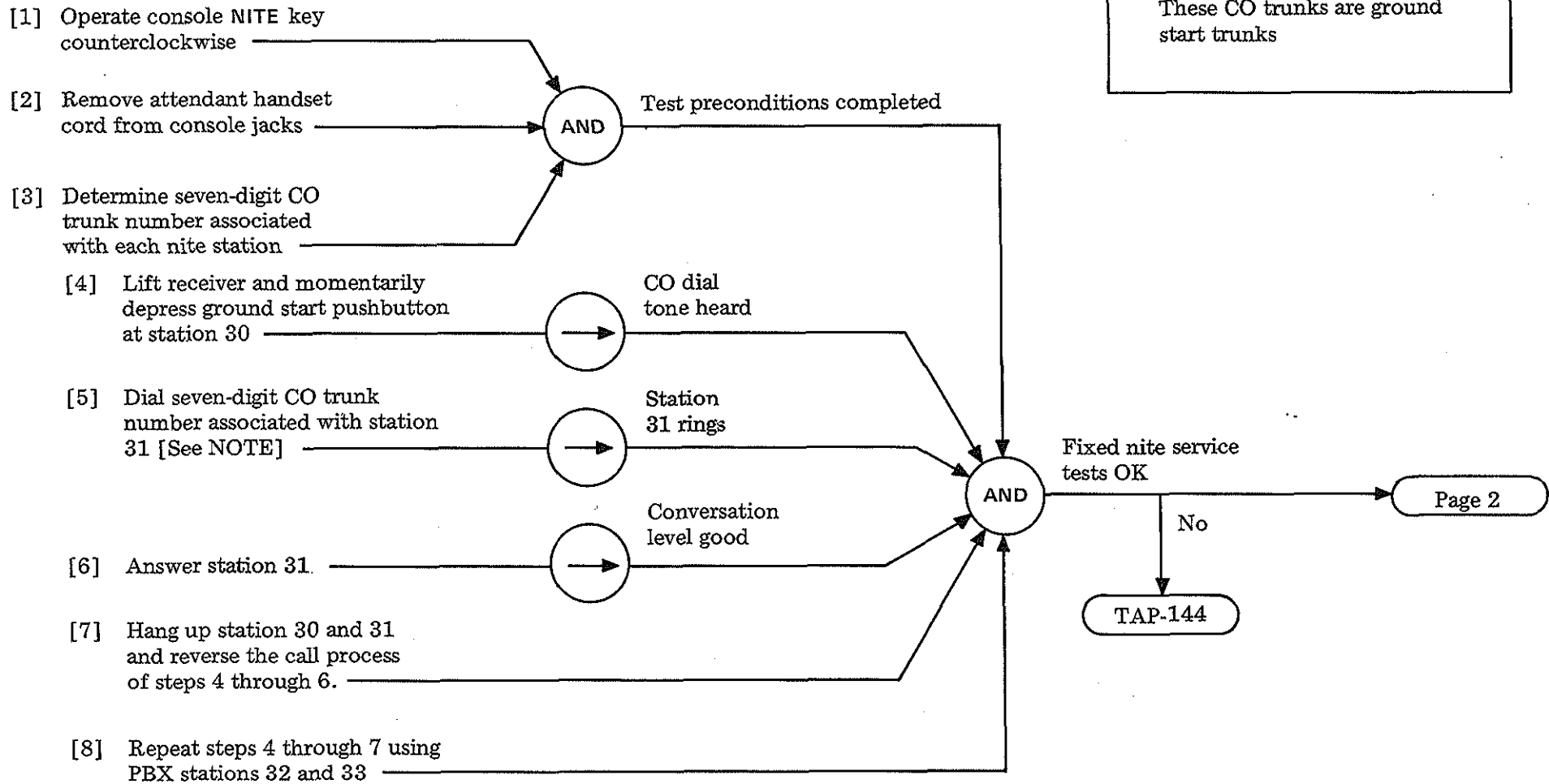
FIG. 4 - Combination Station Hunting - Circular to Terminal - Example

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.

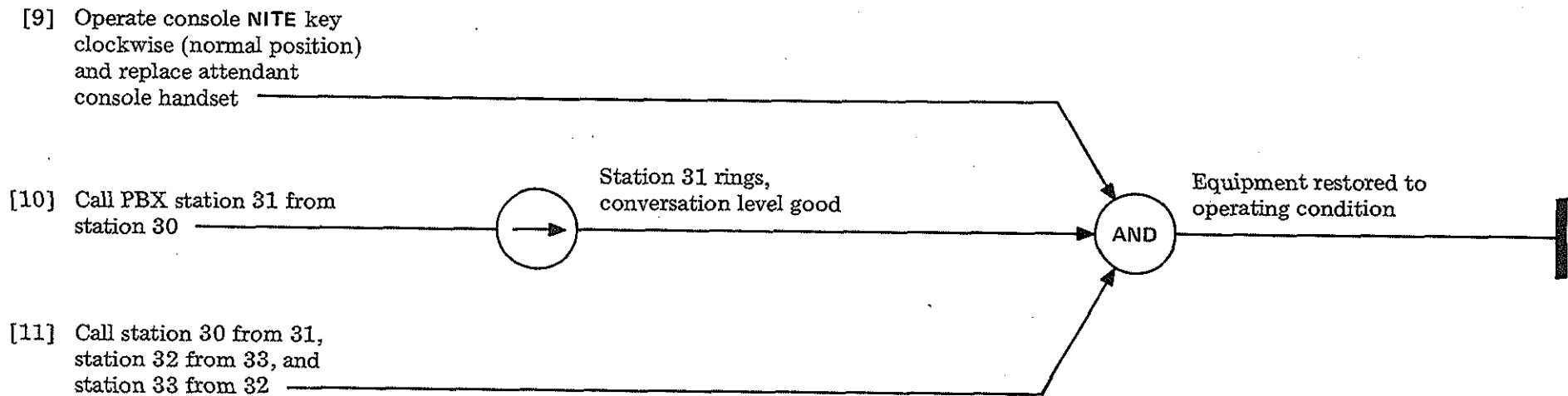
NOTE

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



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

[1] Determine seven-digit number assigned to each CO trunk

[2] Is attendant console 3-type or 4-type

4-type

Page 3

3-type

[3] Operate console NITE key counterclockwise

[4] Depress CO TRK 0 key

CO TRK 0 trunk lamp lights

CO TRK 0 trunk lamp flashes at 30 ipm, then lights steady when station is dialed. Associated station lamp flashes at 30 ipm

[5] Depress HOLD key momentarily, then dial (TOUCH-TONE®) station 30 [See NOTE]

CO TRK 0 trunk and station lamps go out

[6] Depress RLS key

[7] Repeat steps 4 through 6 using CO TRK 1 and station 31

AND

Page 2

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

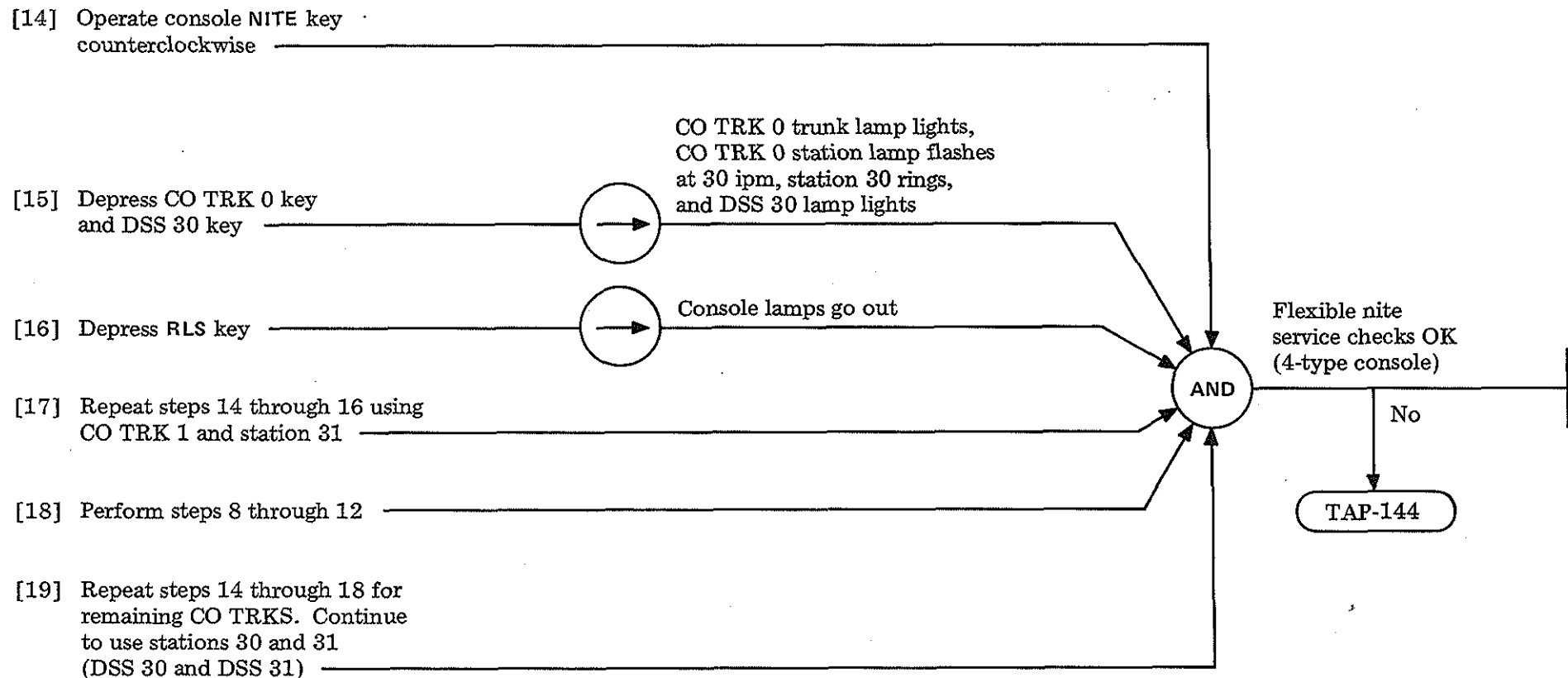
Flexible nite service
tests OK (3-type console)

No

TAP-144

TEST FLEXIBLE NITE SERVICE

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TEST FLEXIBLE NITE SERVICE

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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

Page 3

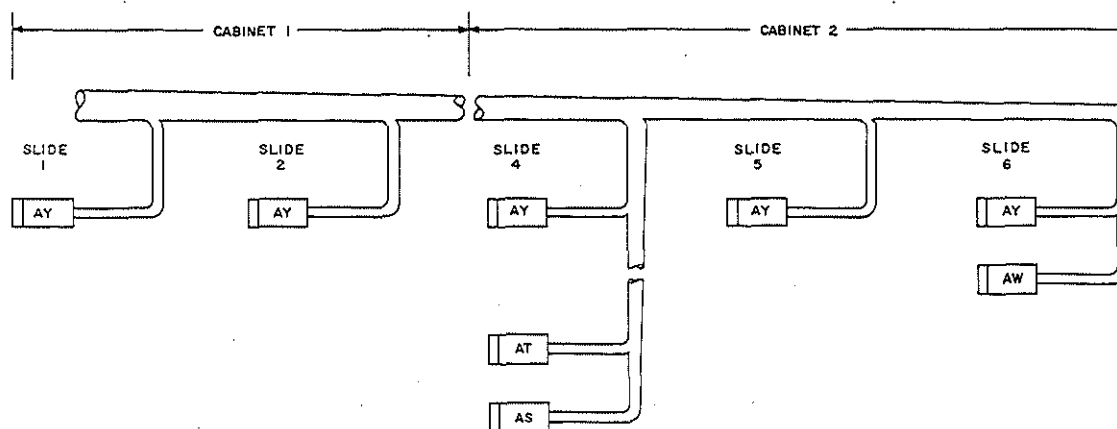
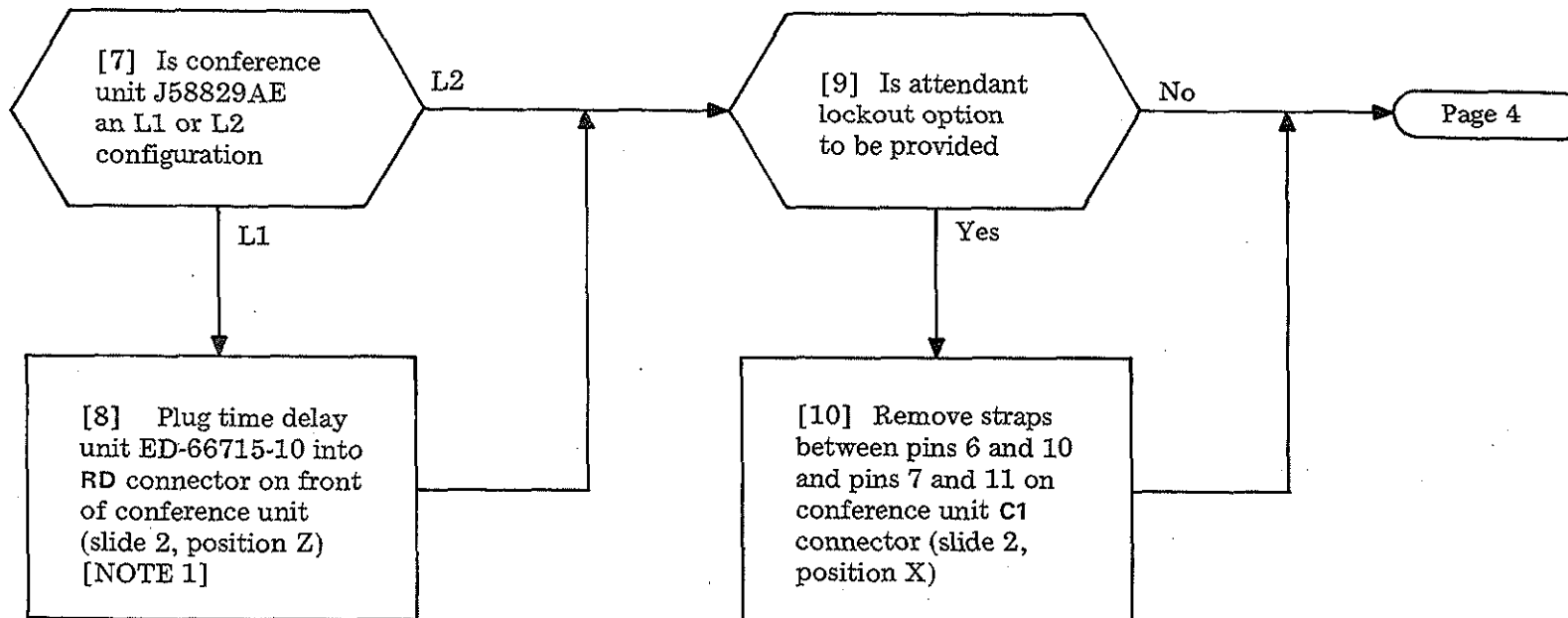


FIG. 1

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	4
8 ←	S-W	SL-(B)	○ 23	Refer to TABLE D for cross wiring						15
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	HMAC
						IT-1 ○ T89			BR	ITSC
28 ←	W	OT1						2L ○ (OT-25)		8
29 ←	S	OT2						2L ○ (OT-26)		18
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					



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)

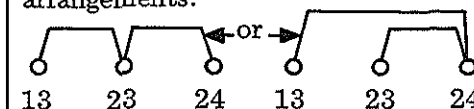
Code 8 access installed

[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)

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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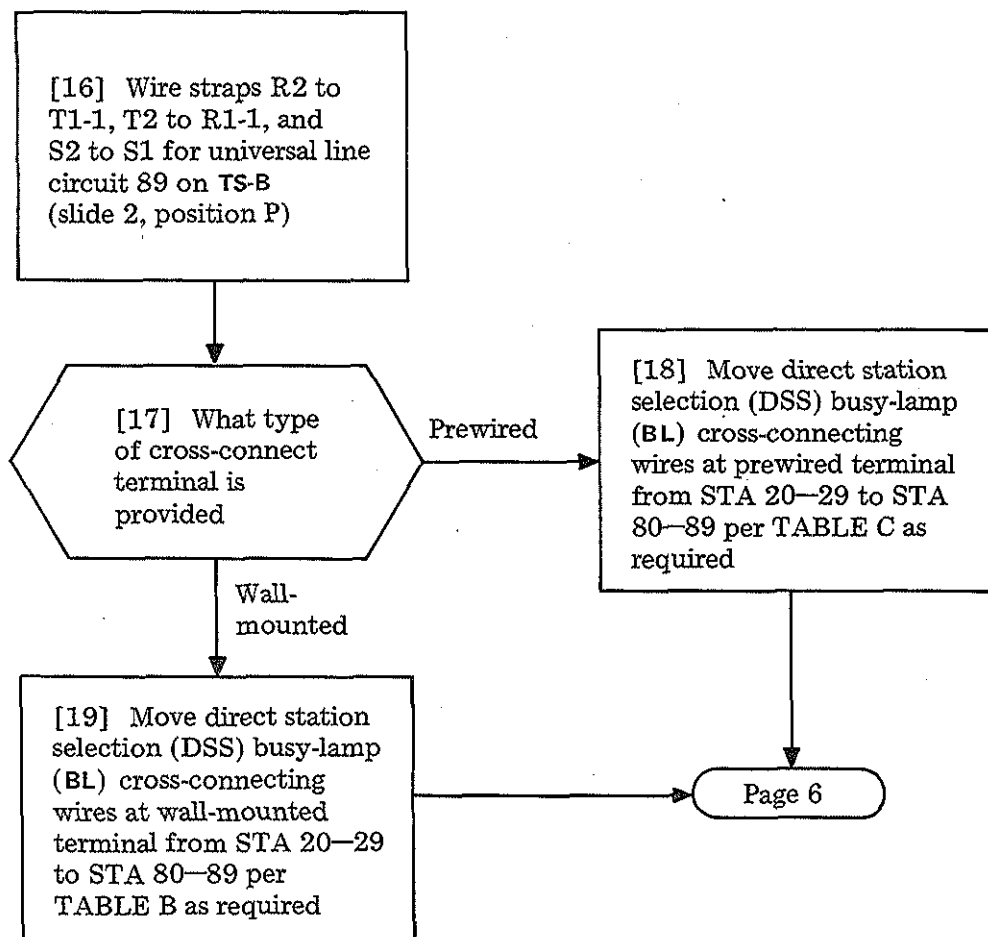


TABLE B							
WALL TERMINAL							
FROM				TO			
G-W BINDER BLOCK A10	COLOR	LEAD	TERM	BR-W BINDER BLOCK B10	COLOR	LEAD	TERM
	Y-BL	BL21	T16		Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	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

[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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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		T14	A4	T4	
			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	
	O-W	BLOCK B4	R20	S-Y	R14	C1	R20	BLOCK A10	R20		T3	
			R4	BR-W	SL15	C2	R4		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)

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

[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

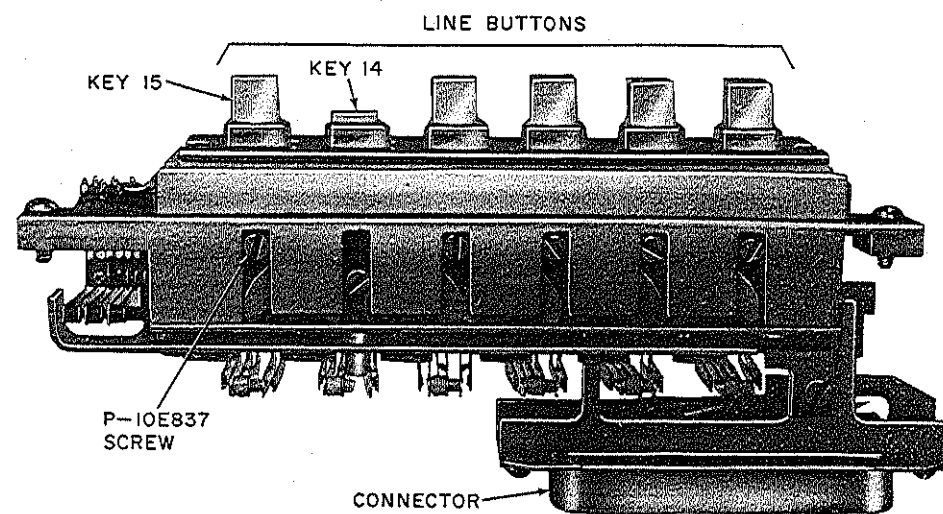
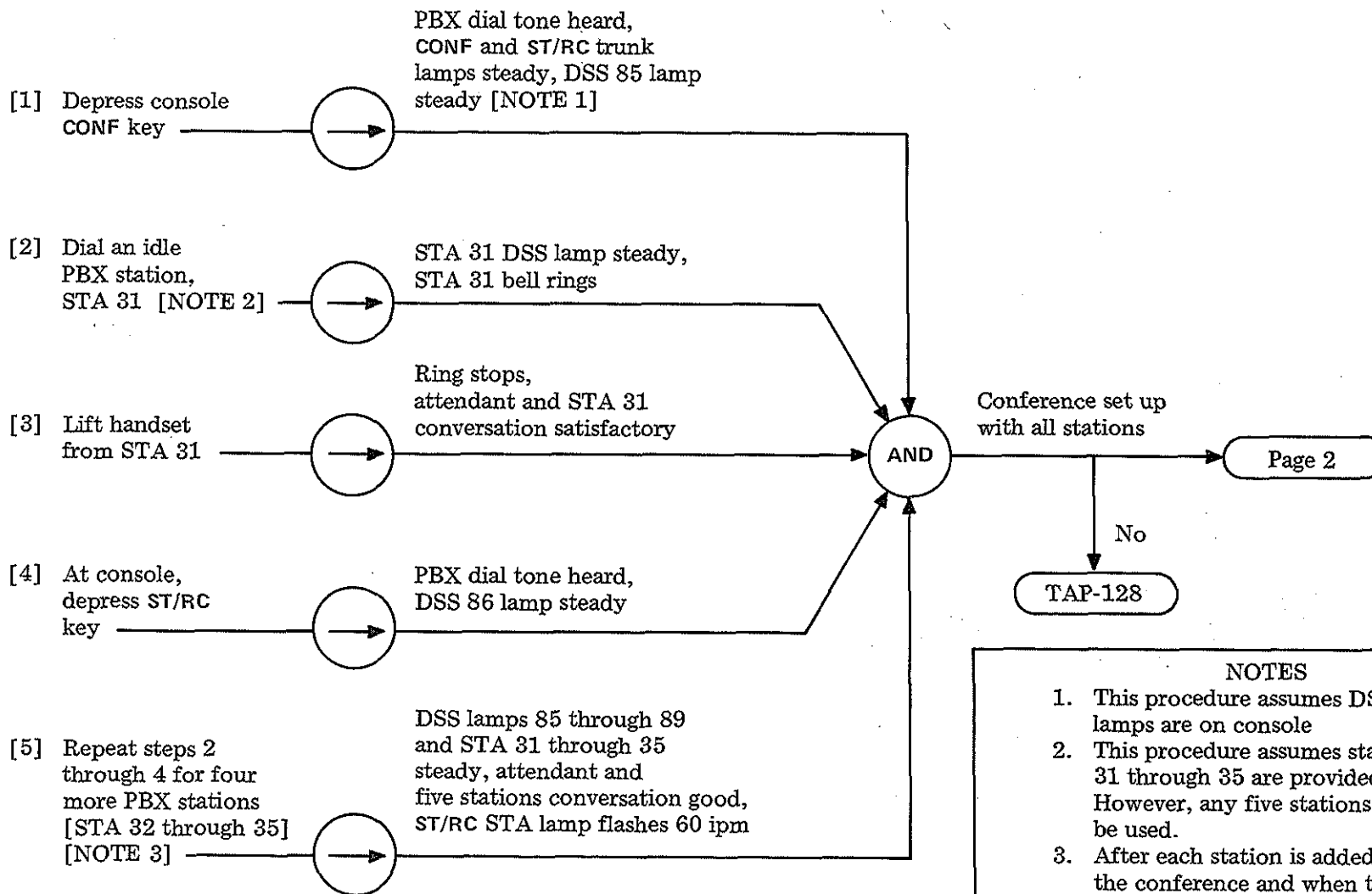


FIG. 2 — Typical 598-Type Key Strip

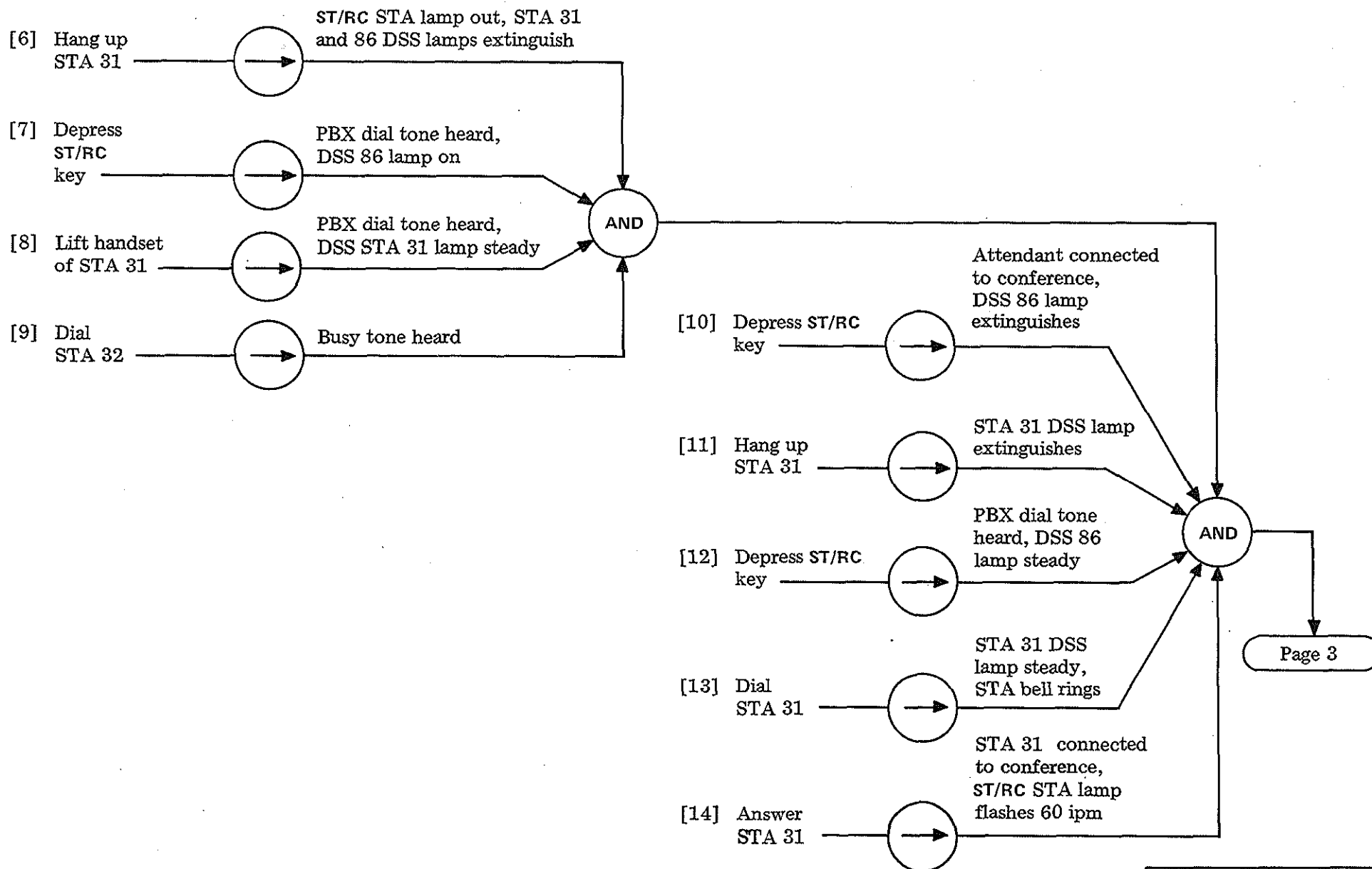


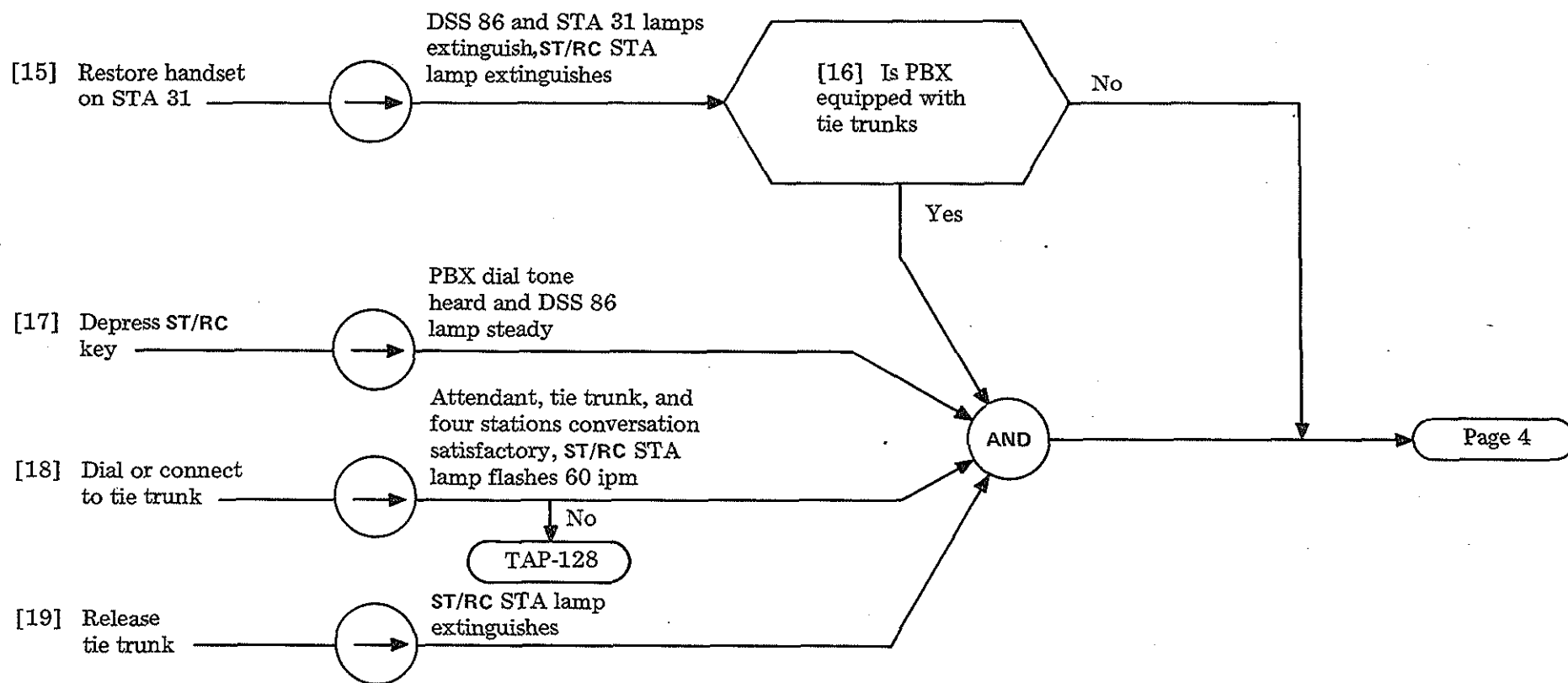
NOTES

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.

TEST ATTENDANT-CONTROLLED DIAL CONFERENCE FEATURE

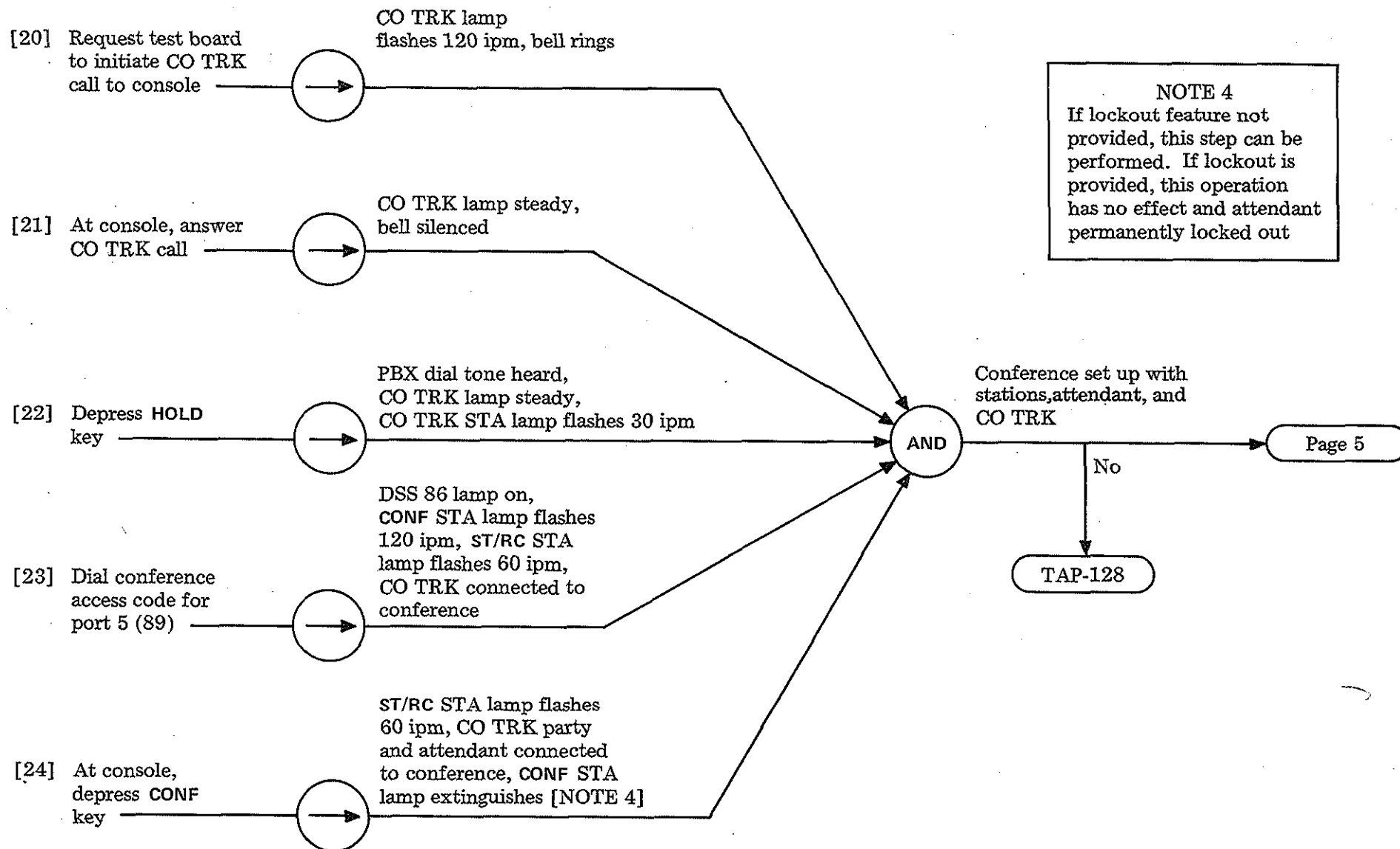
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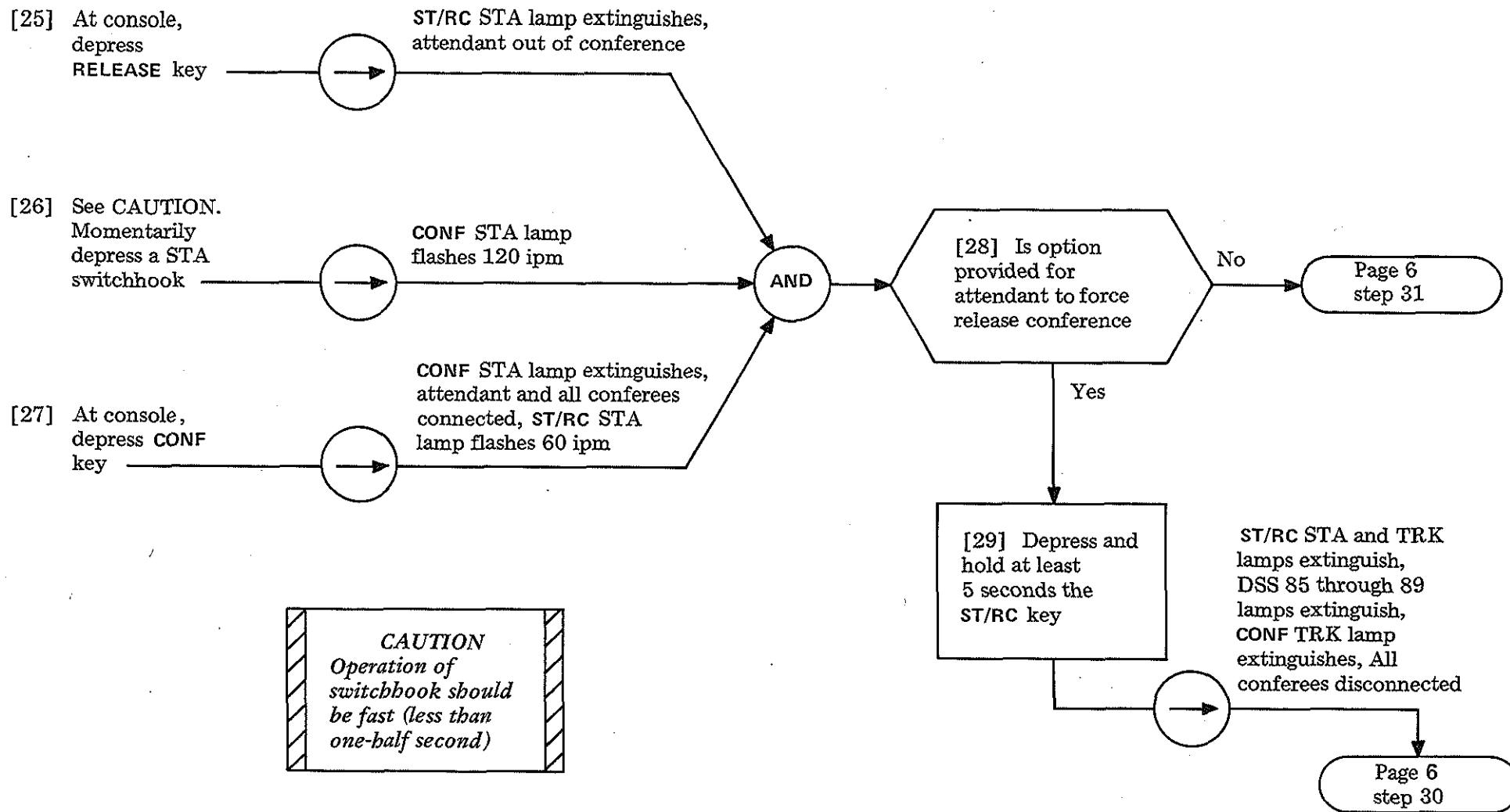




TEST ATTENDANT-CONTROLLED DIAL CONFERENCE FEATURE

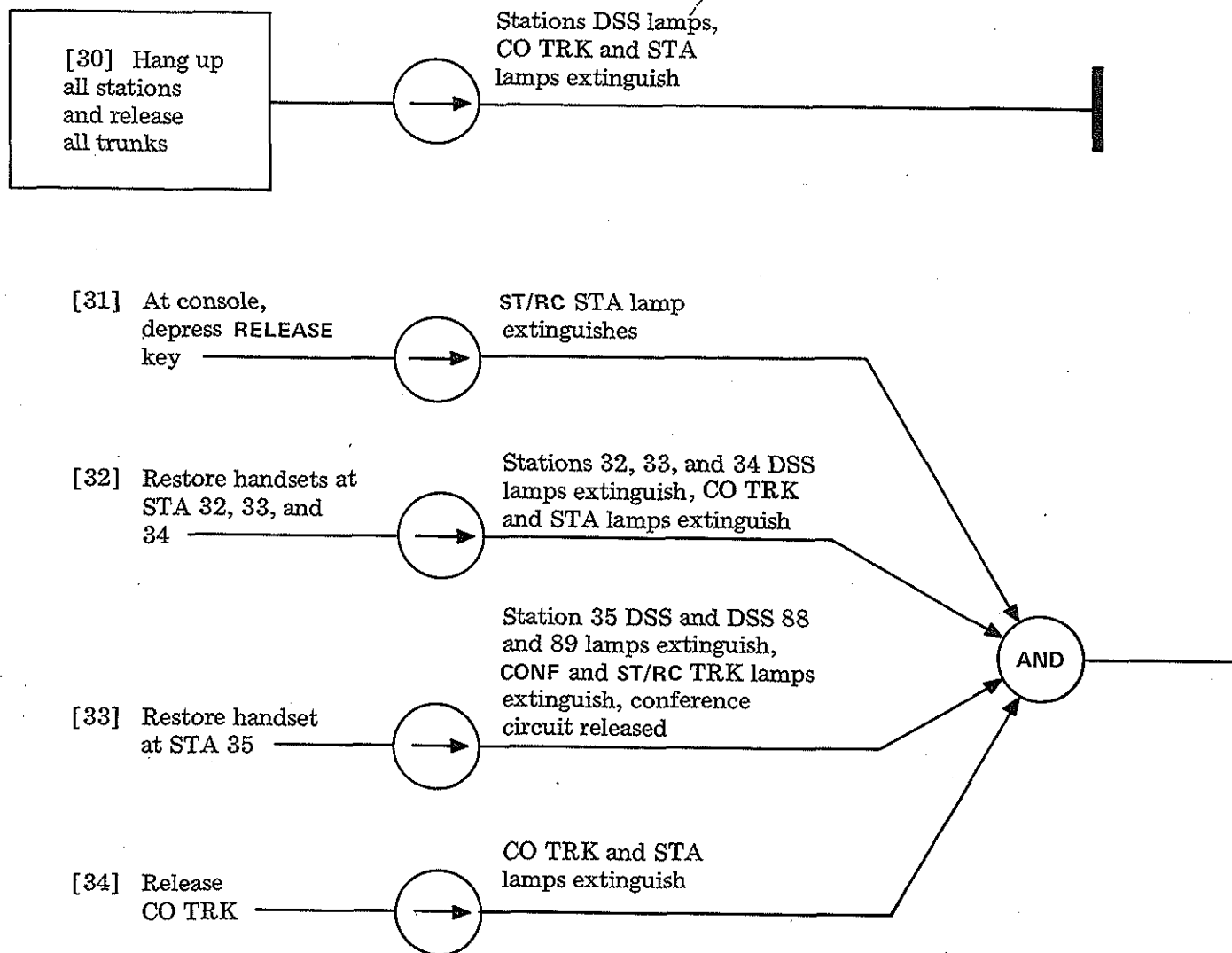
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TEST ATTENDANT-CONTROLLED DIAL CONFERENCE FEATURE

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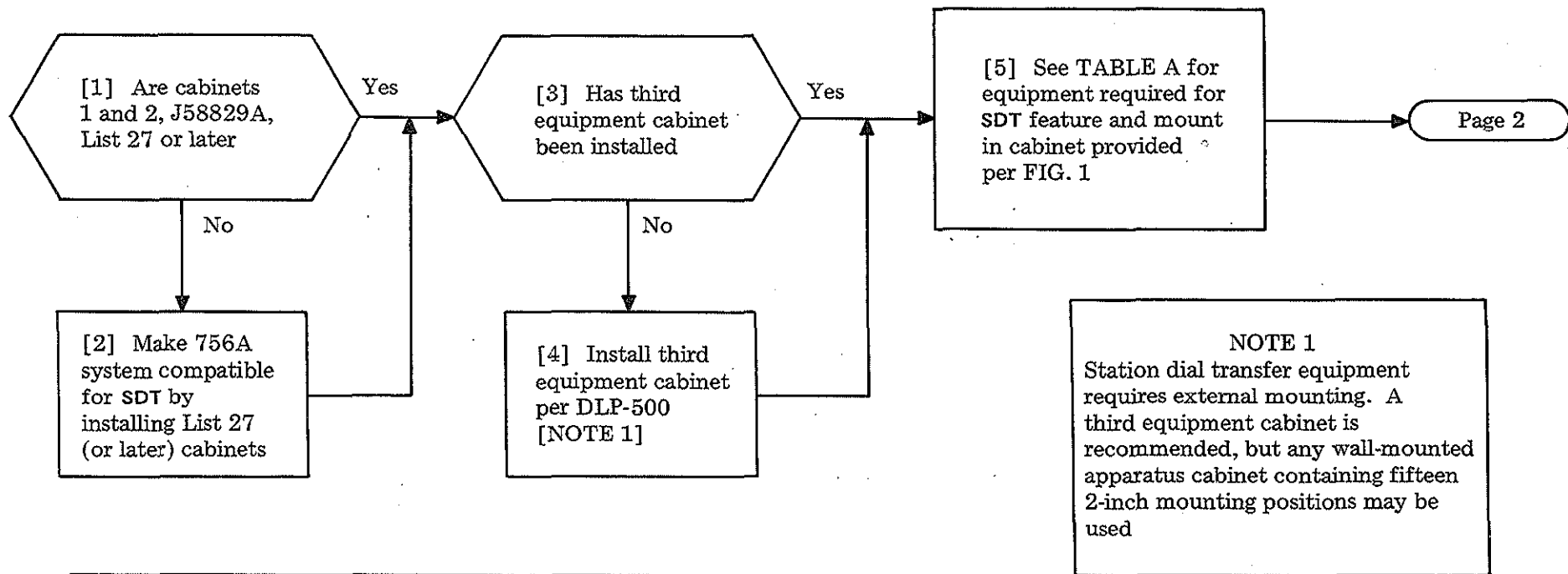


TABLE A		
J58829AG	EQUIPMENT	QUANTITY
L1	Control unit	1
L2	Assembly, wiring, and equipment in addition to L1	1
L3	Equipment for add-on conference in addition to L1 and L2	1
L4	Connector-ended cables (2 cables)	1

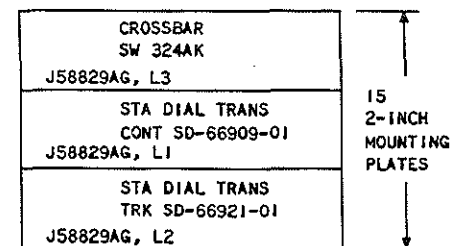
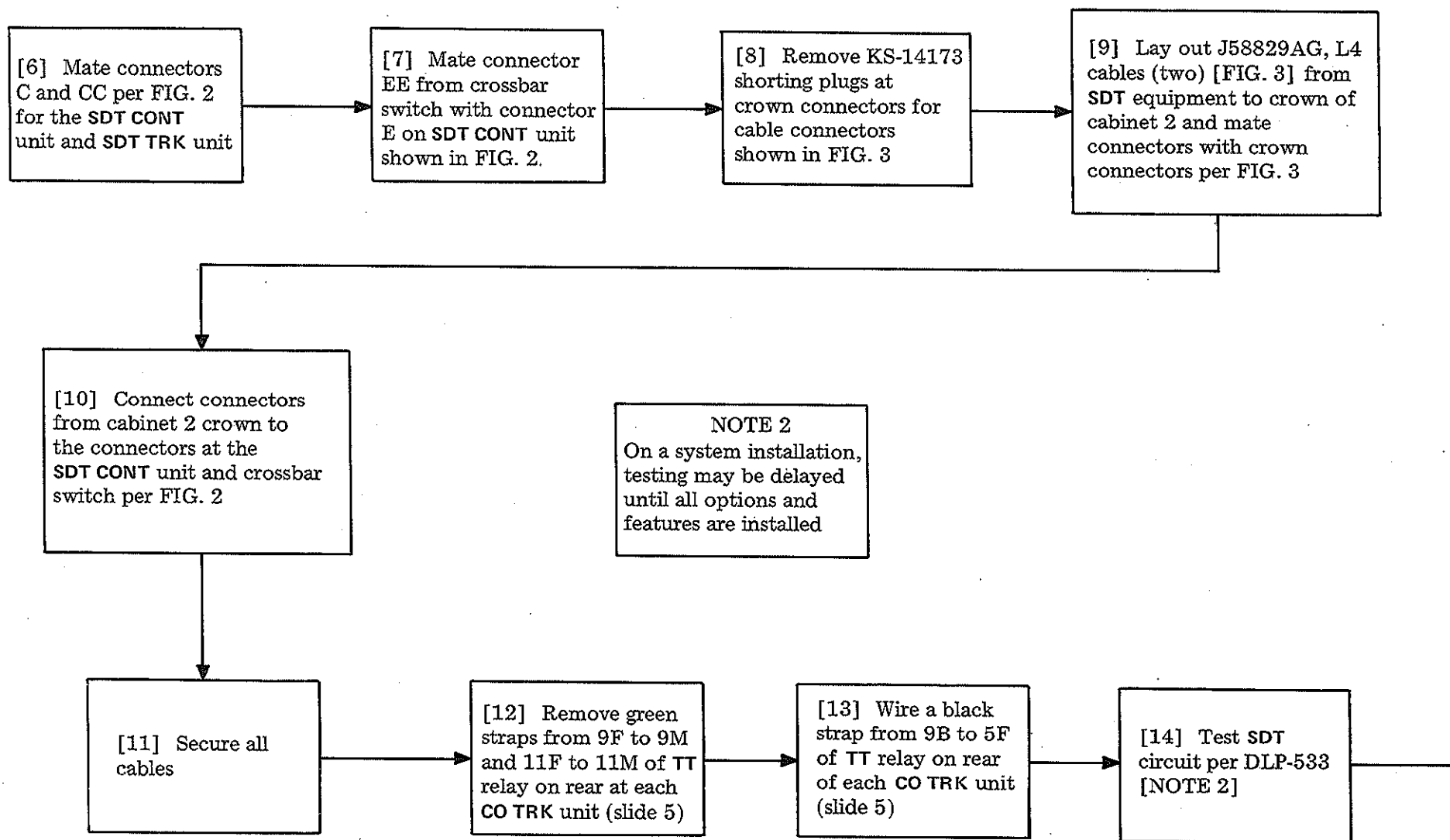


FIG. 1—Mounting Arrangement

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

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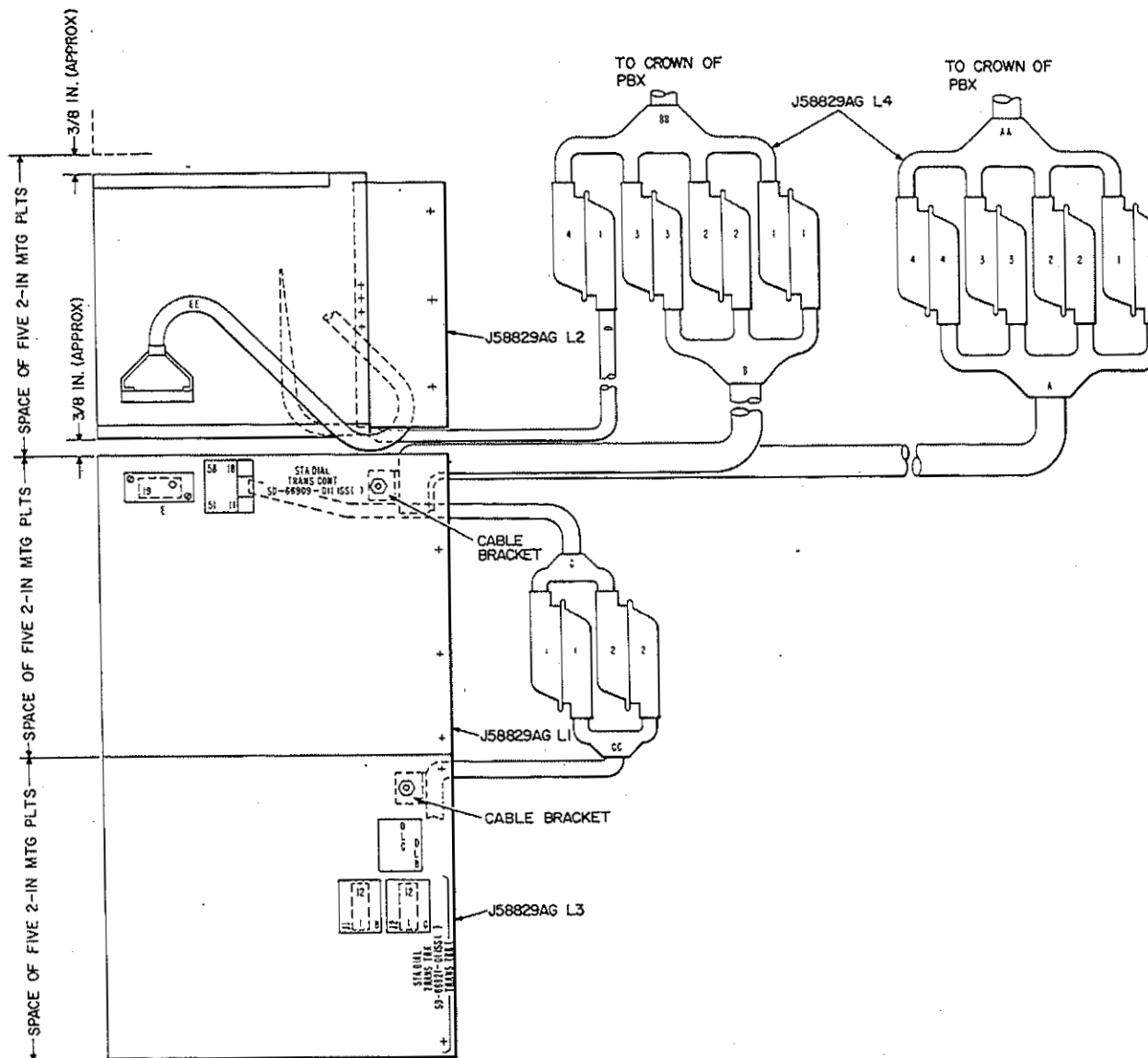


FIG. 2—Equipment for Station Dial Transfer Feature

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

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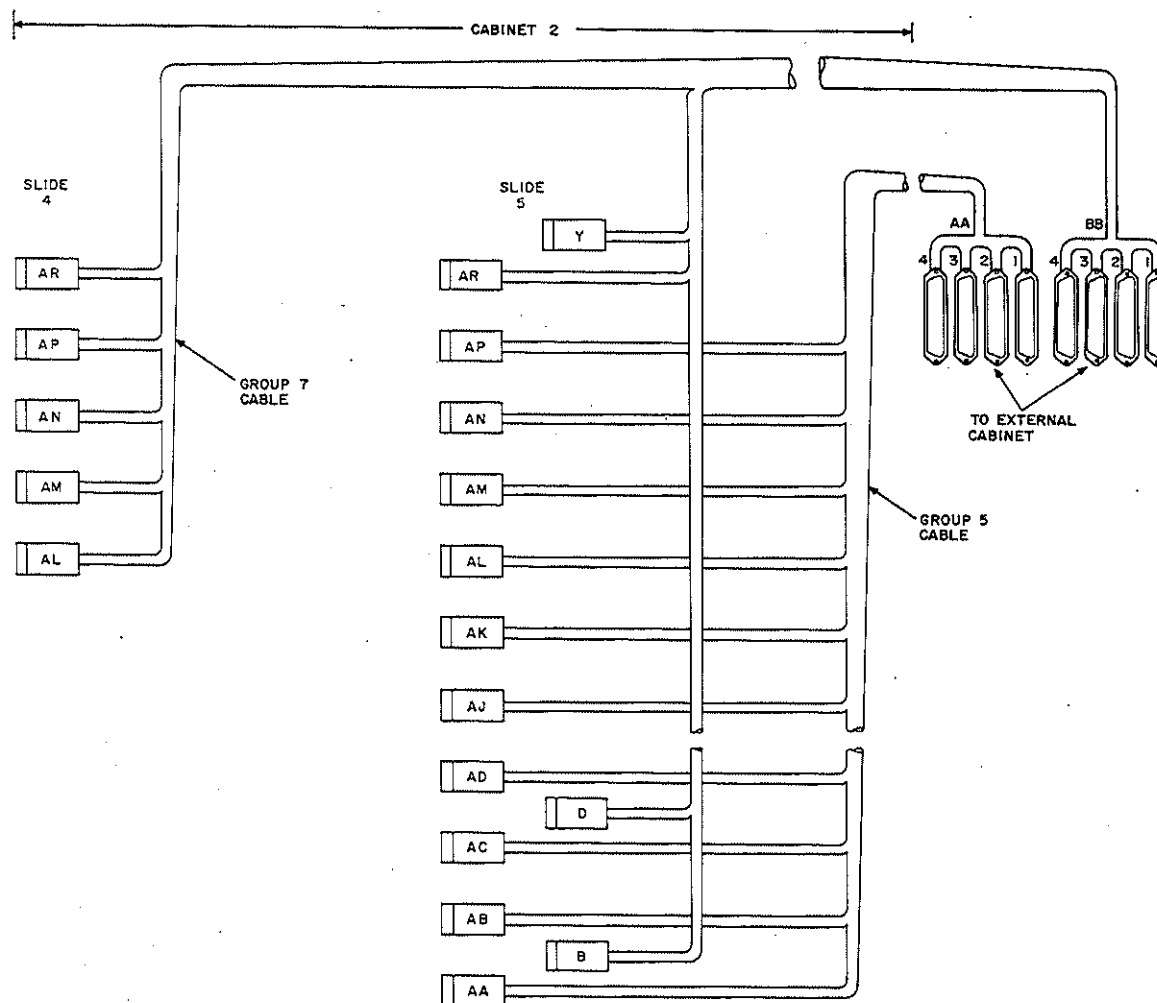
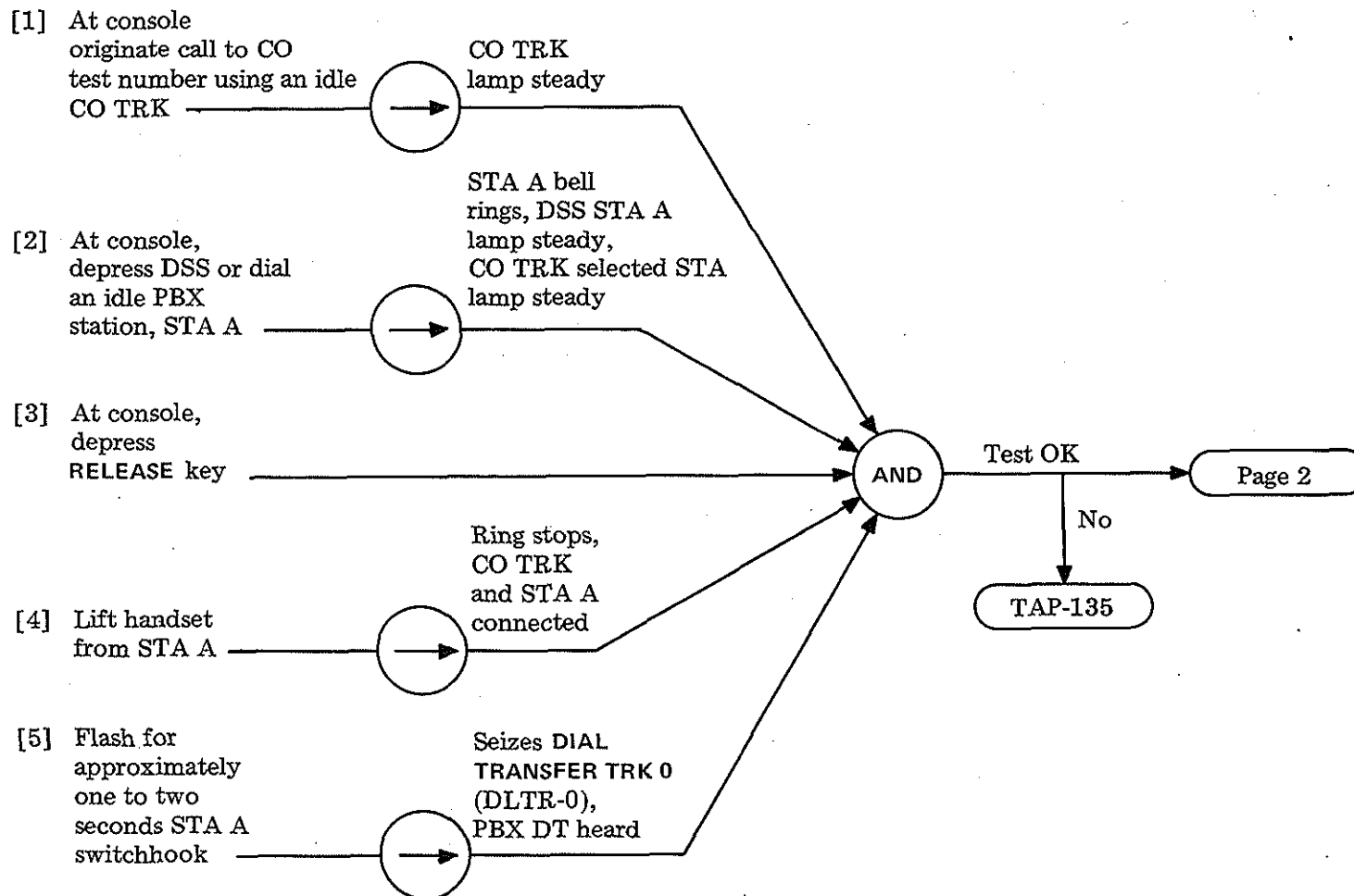


FIG. 3—J58829AG, List 4 Cables

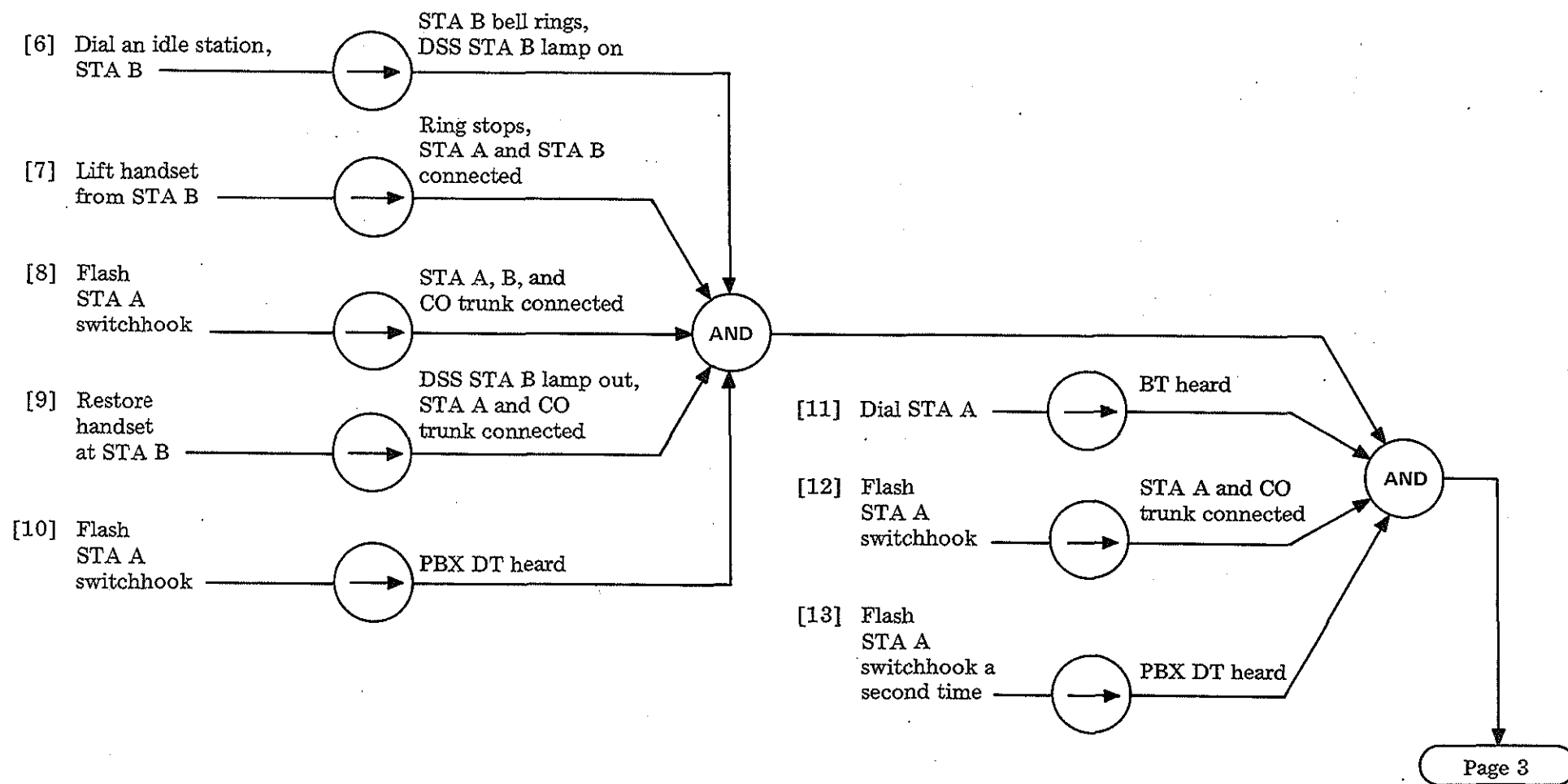
INSTALL AND TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER)
EQUIPMENT (SD-66909, SD-66921)

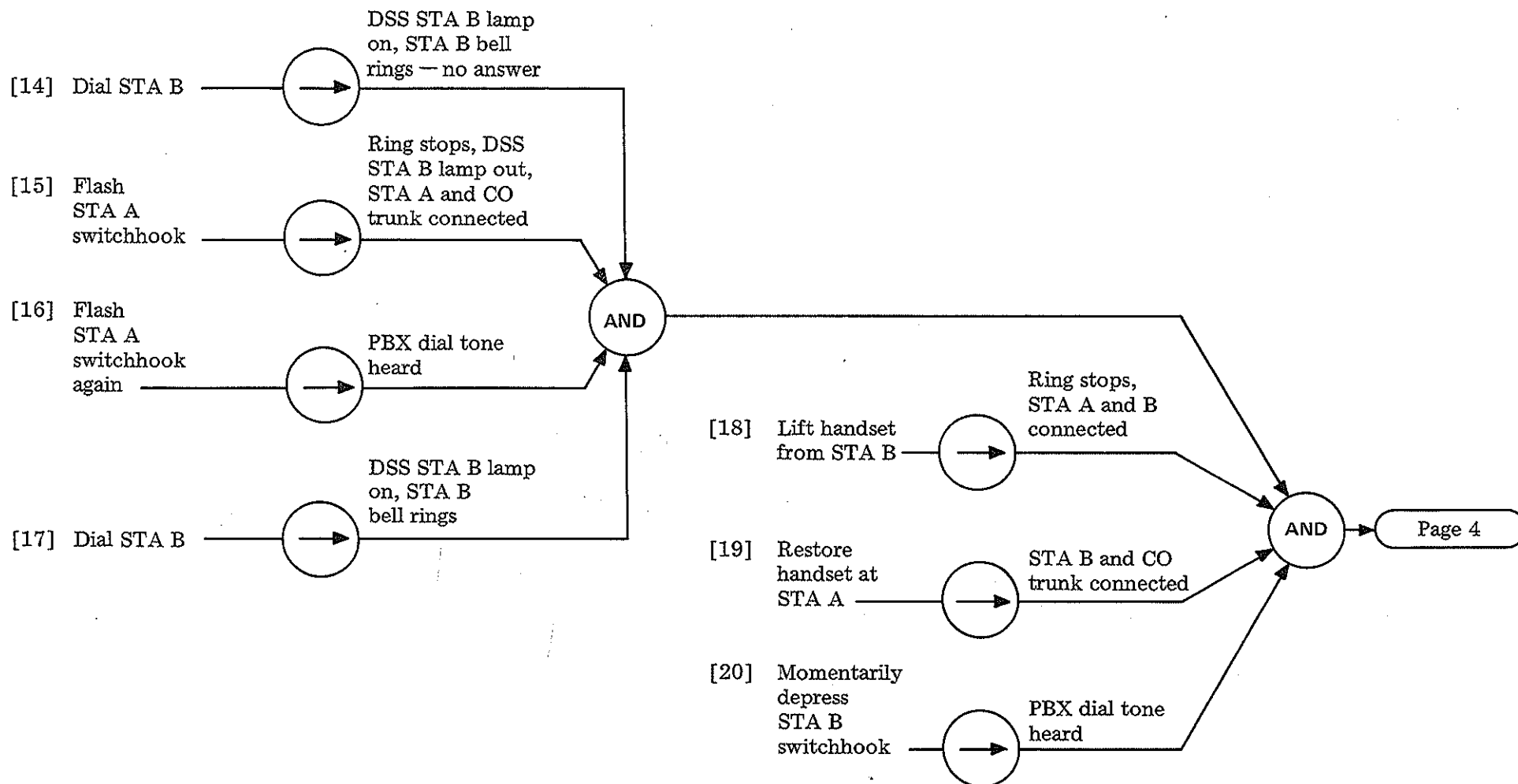
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TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER) FEATURE

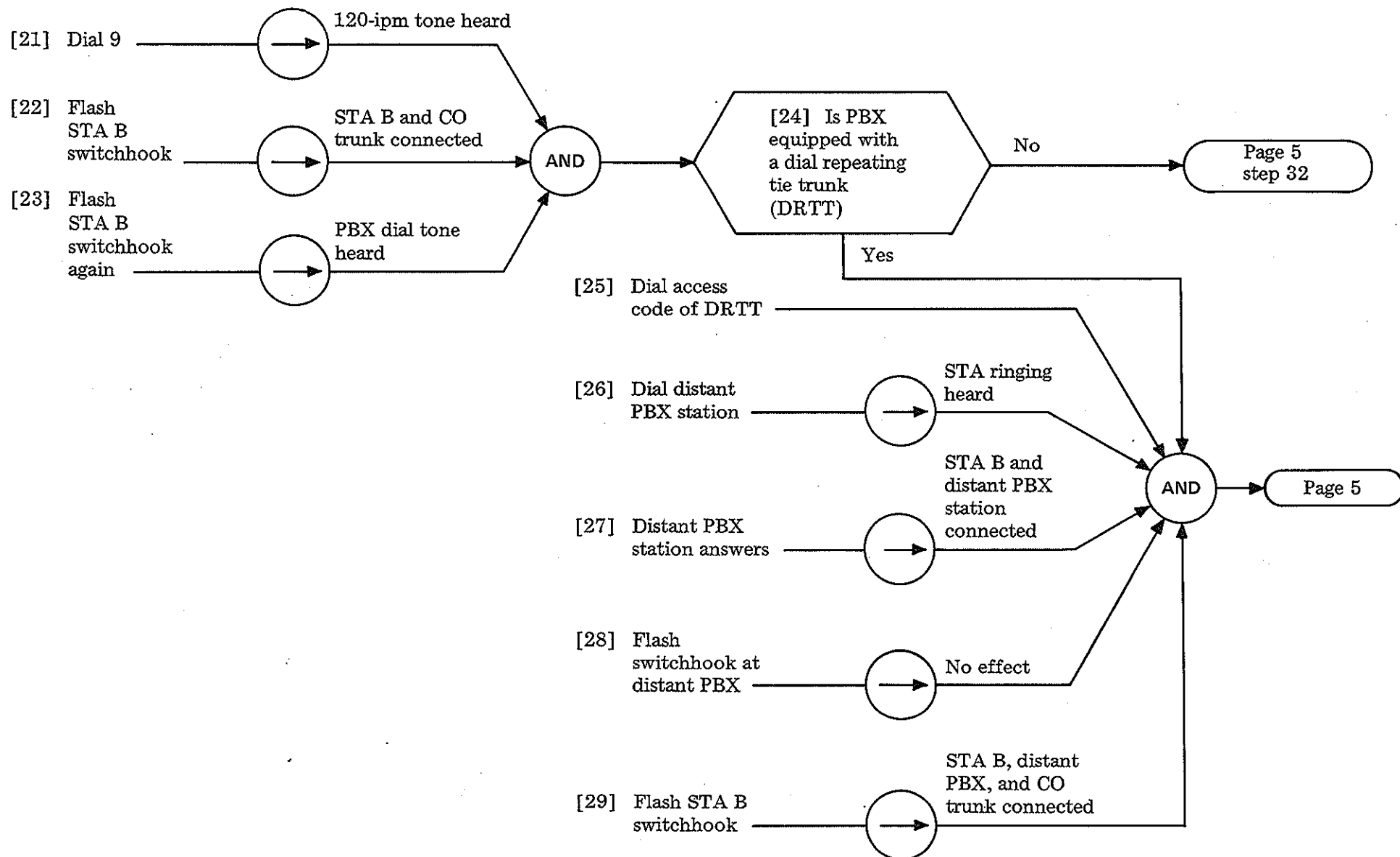
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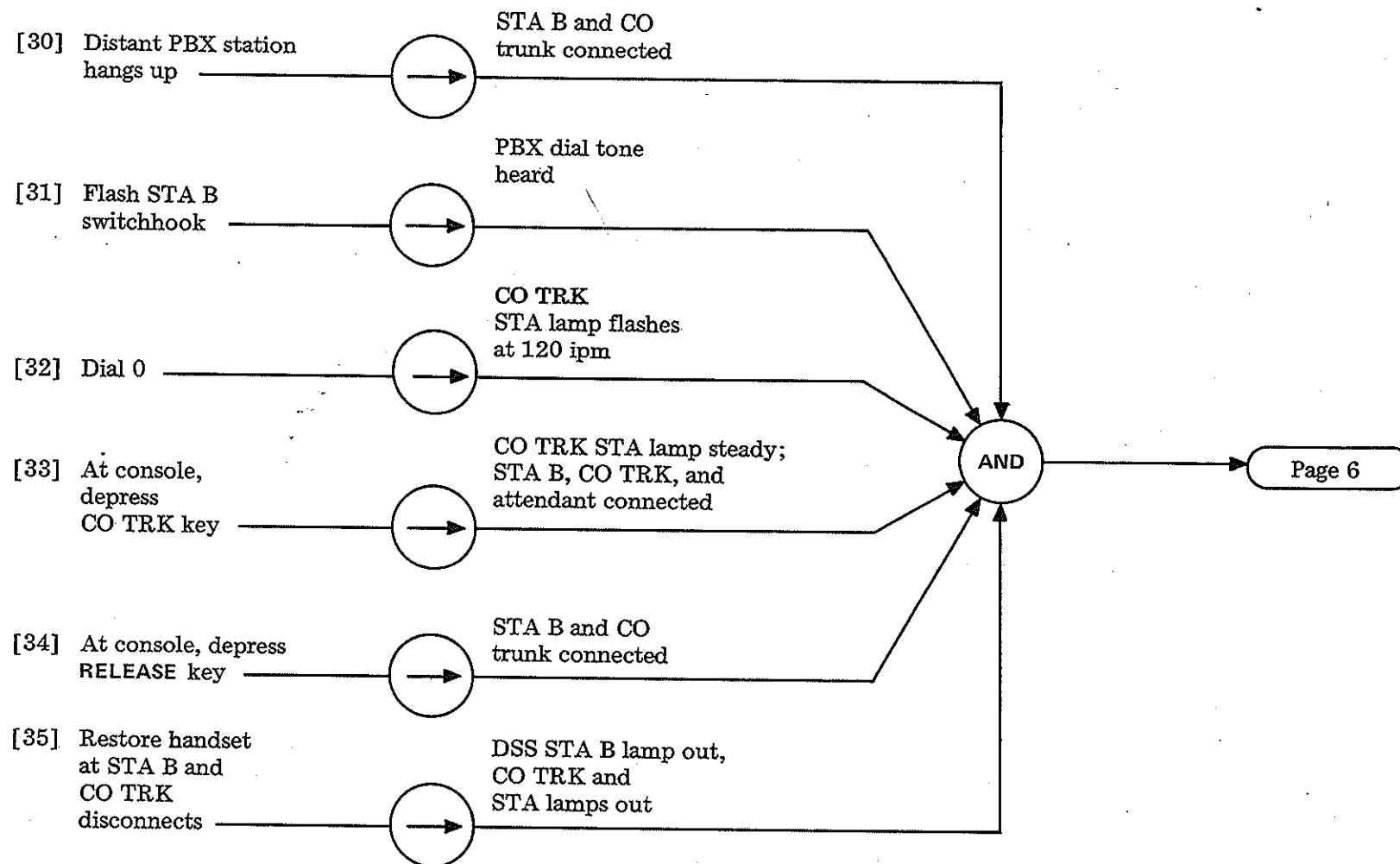
TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER) FEATURE

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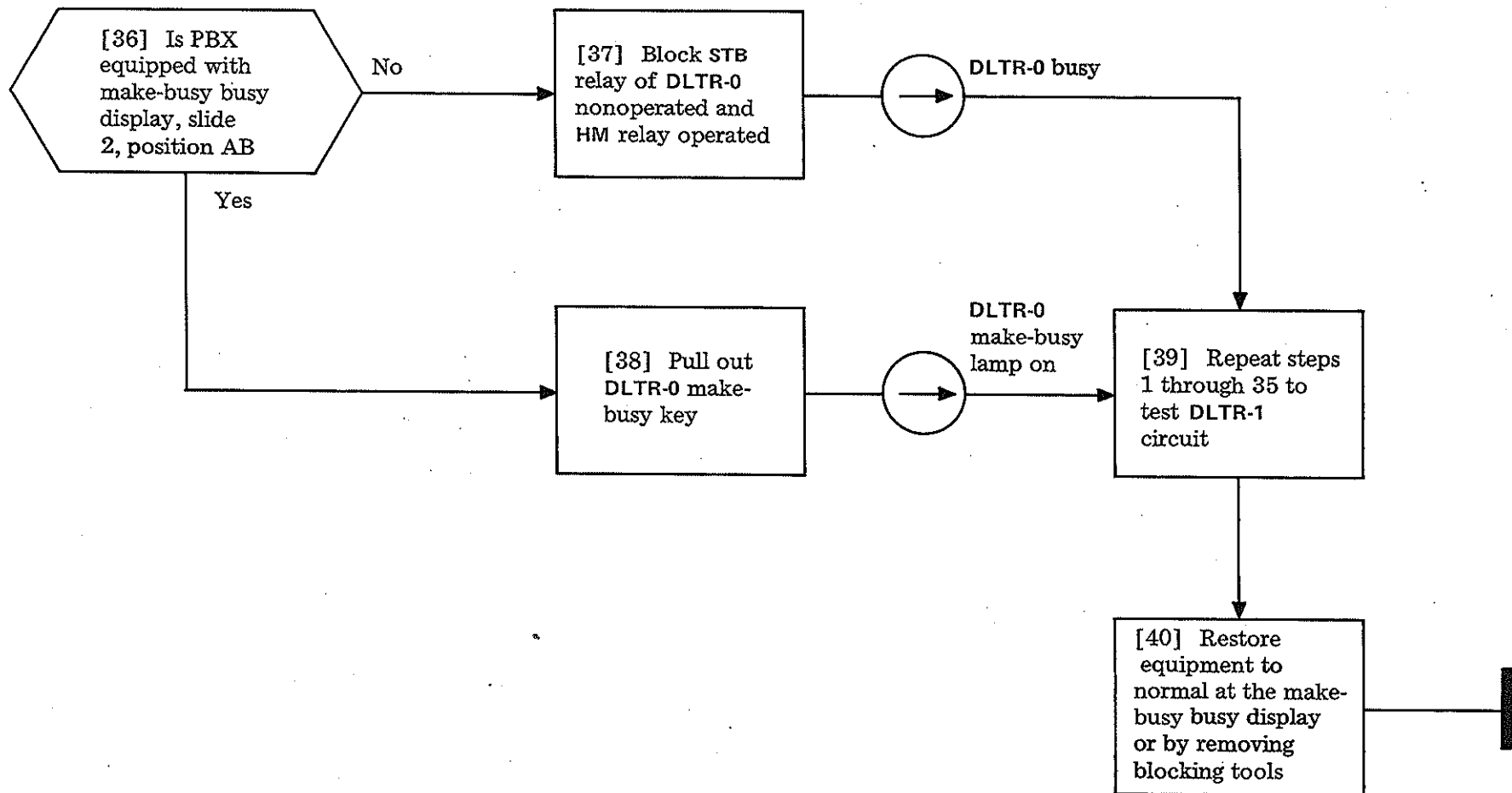
TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER) FEATURE

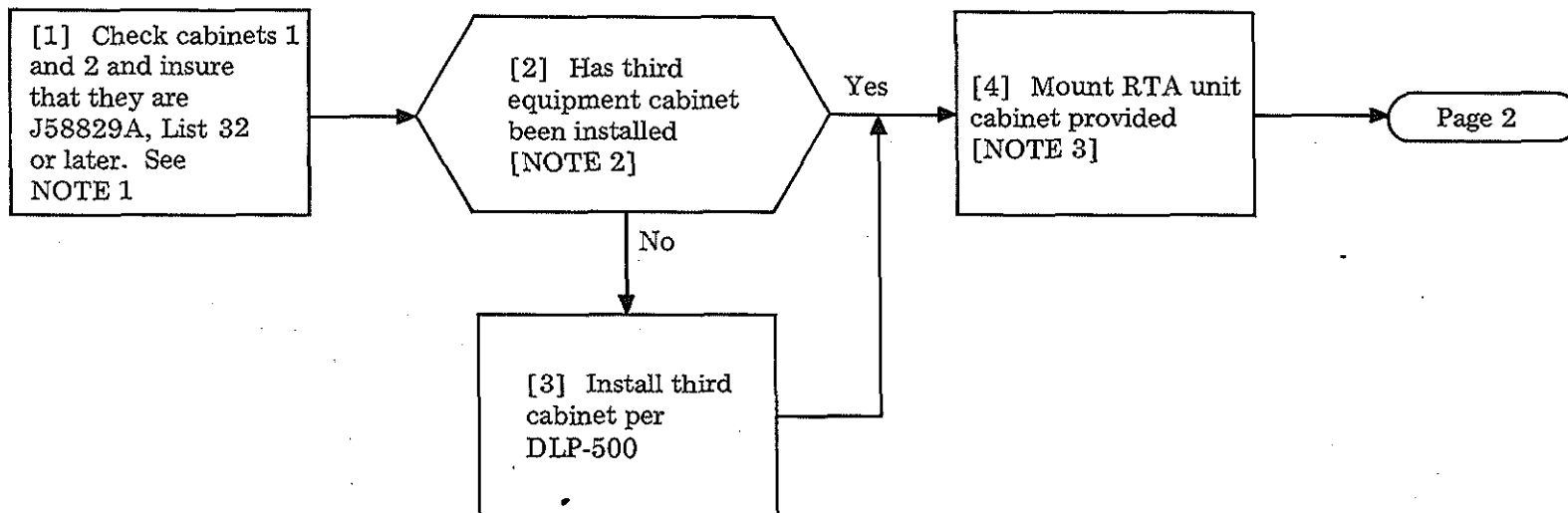
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TEST CALL TRANSFER INDIVIDUAL (PREVIOUSLY STATION DIAL TRANSFER) FEATURE

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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

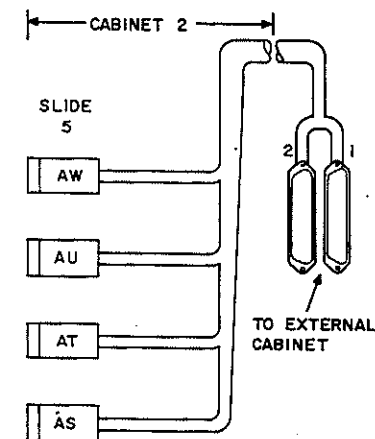


FIG. 1

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)

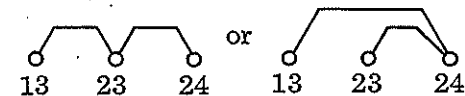
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NOTE 4

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:

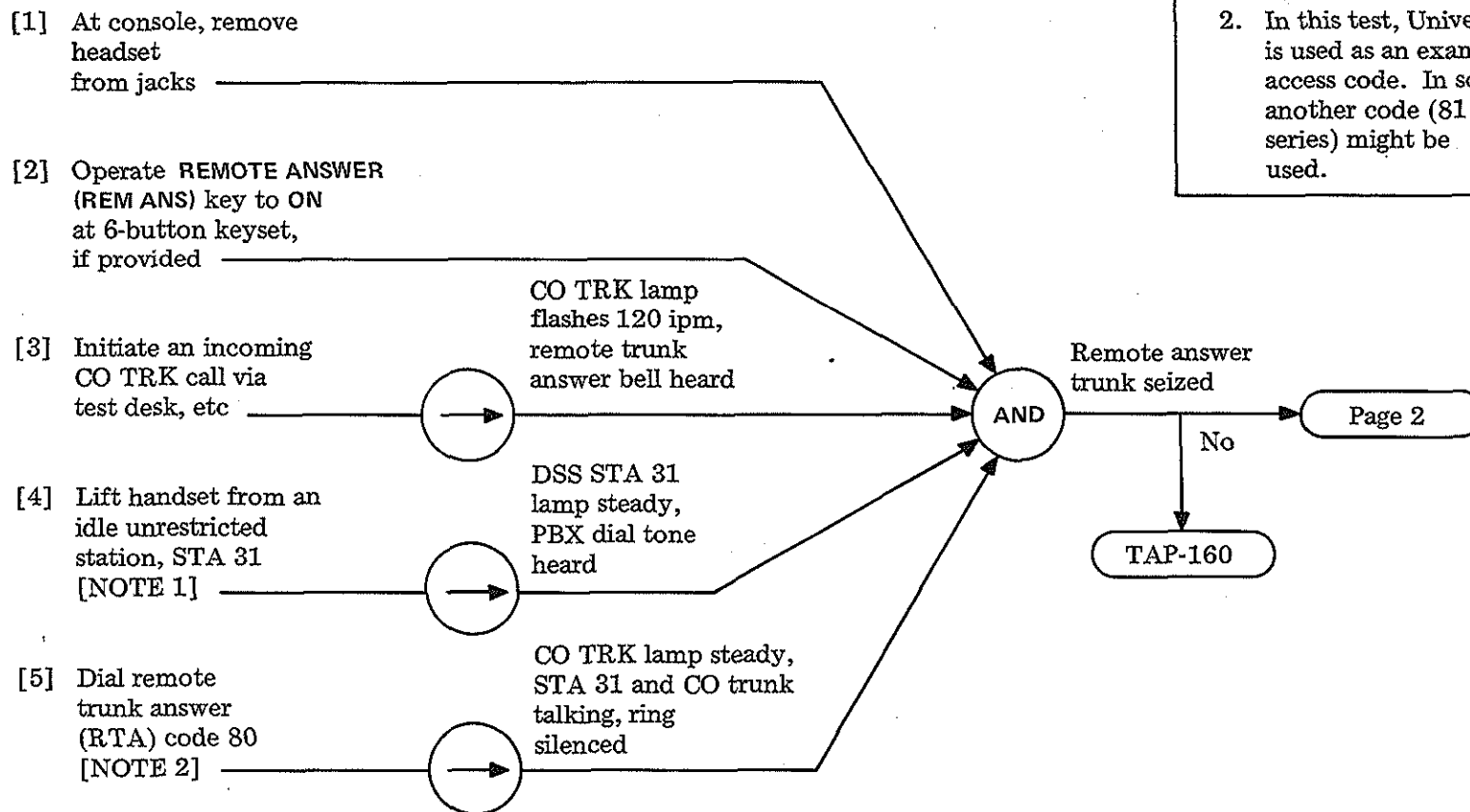


In either case, both straps are to
be removed.

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

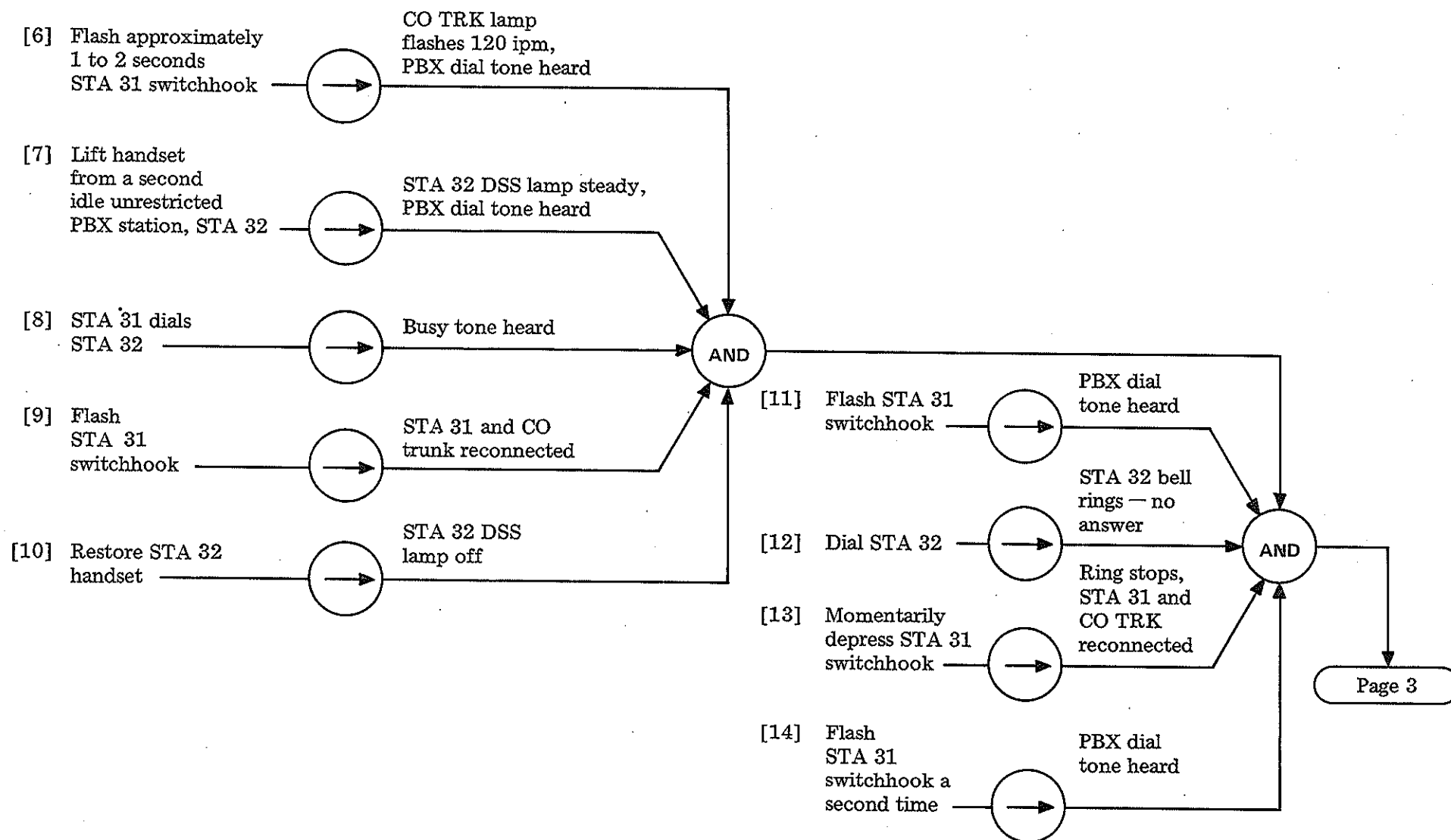
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- NOTES**
1. This test assumes DSS feature provided and STA 31, and 32 are available. Any available stations can be used.
 2. In this test, Universal TRK 80 is used as an example for access code. In some cases, another code (81 through 89 series) might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



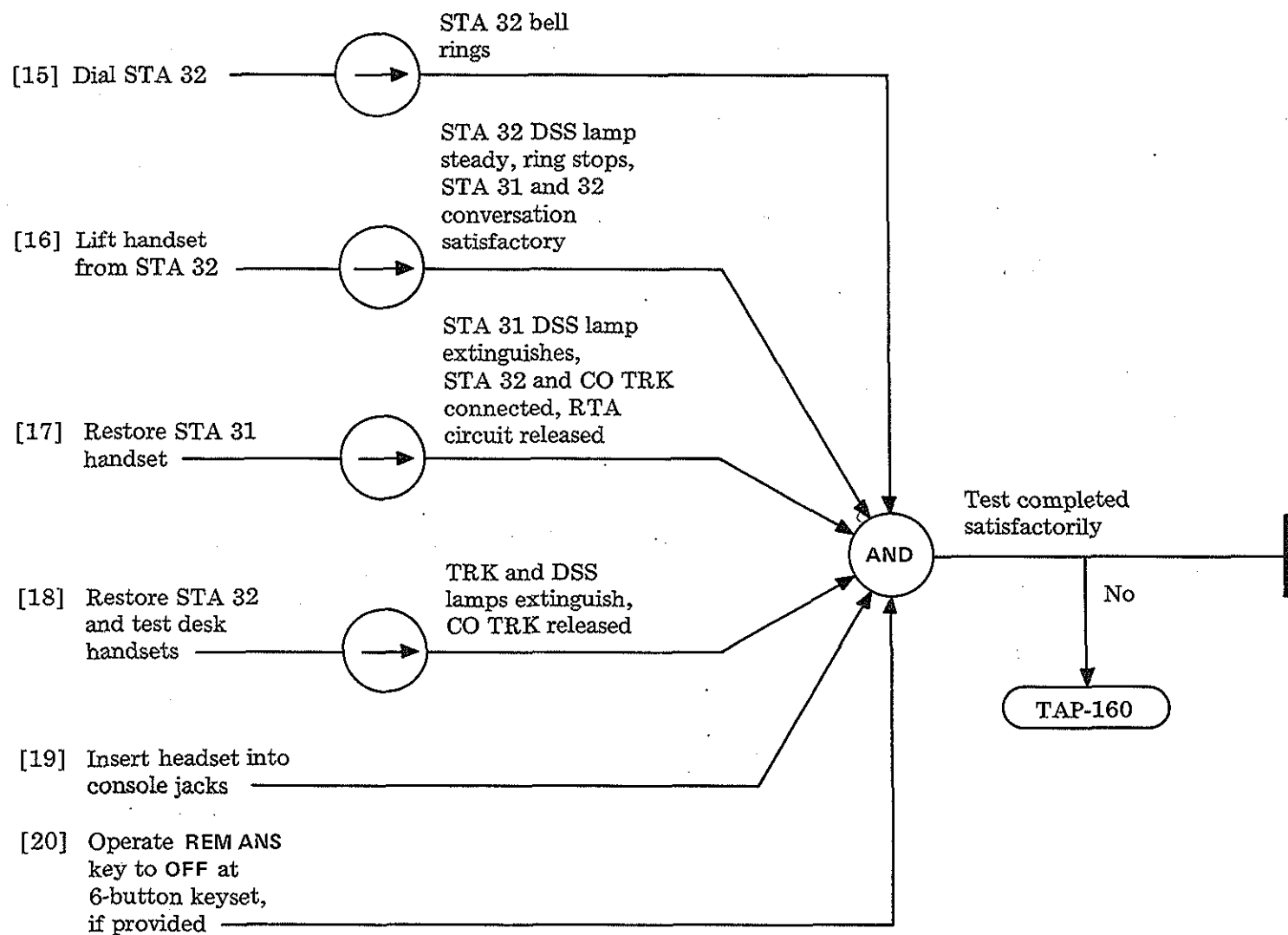
**TEST TRUNK-ANSWER-FROM-ANY-STATION
(PREVIOUSLY REMOTE TRUNK ANSWER) FEATURE**

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

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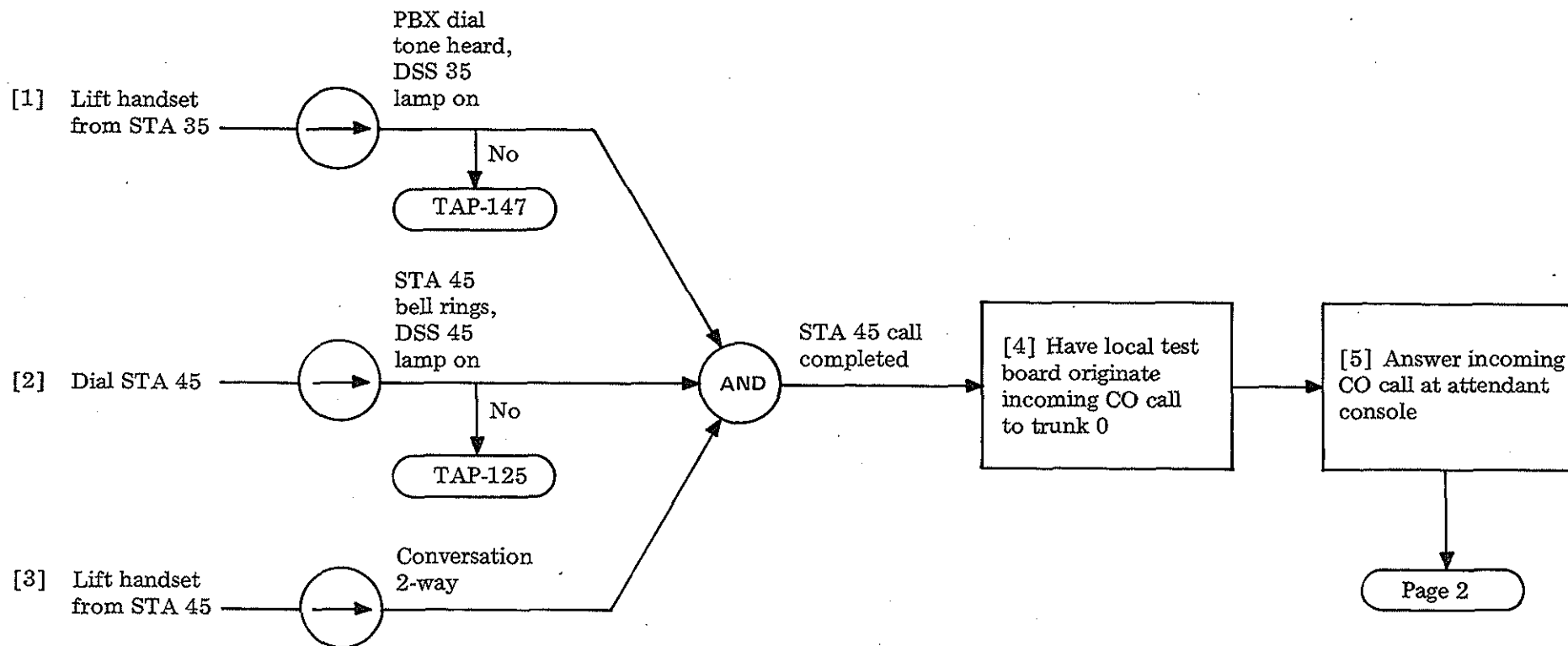


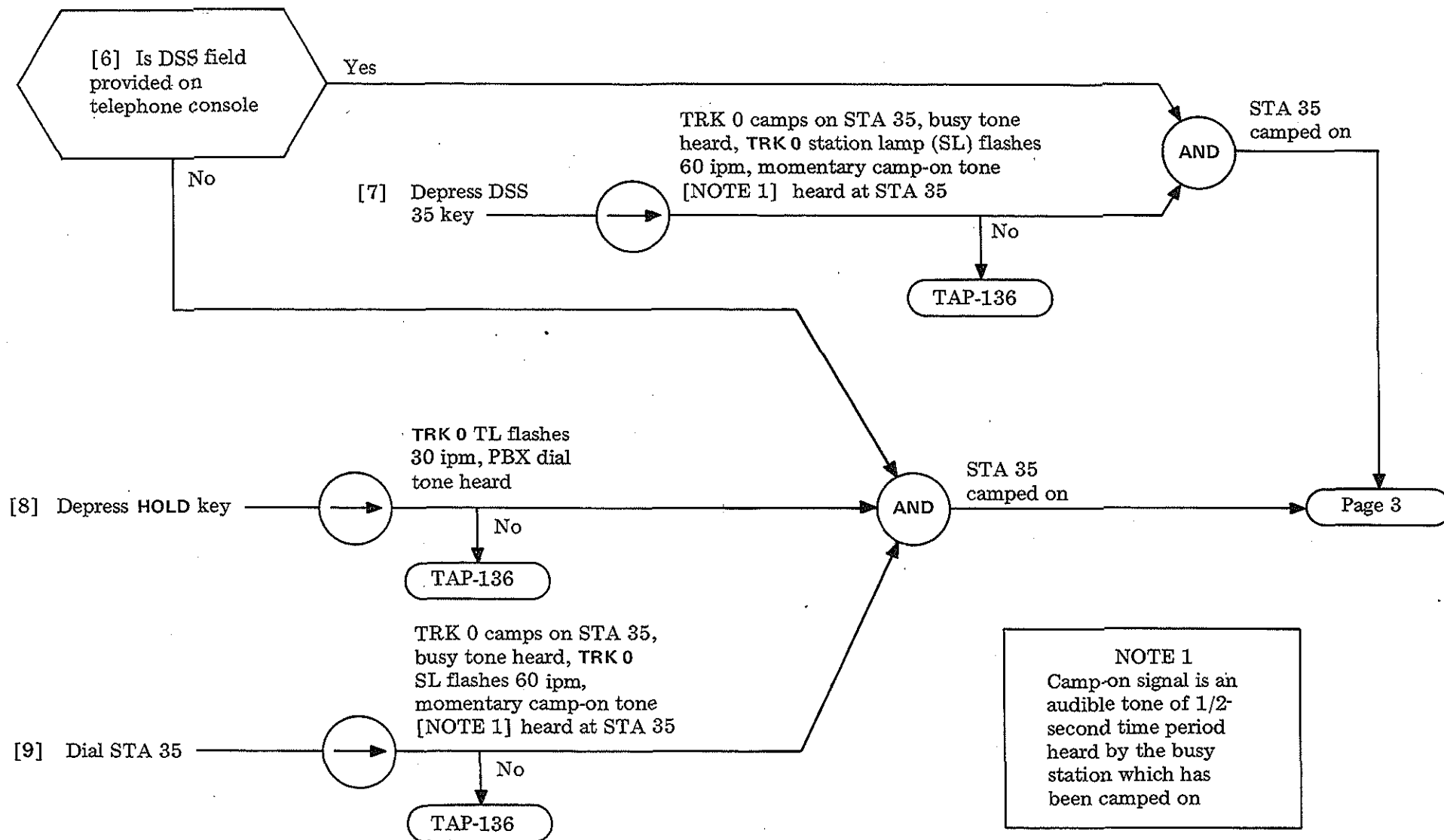
TEST TRUNK-ANSWER-FROM-ANY-STATION
(PREVIOUSLY REMOTE TRUNK ANSWER) FEATURE

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SUMMARY

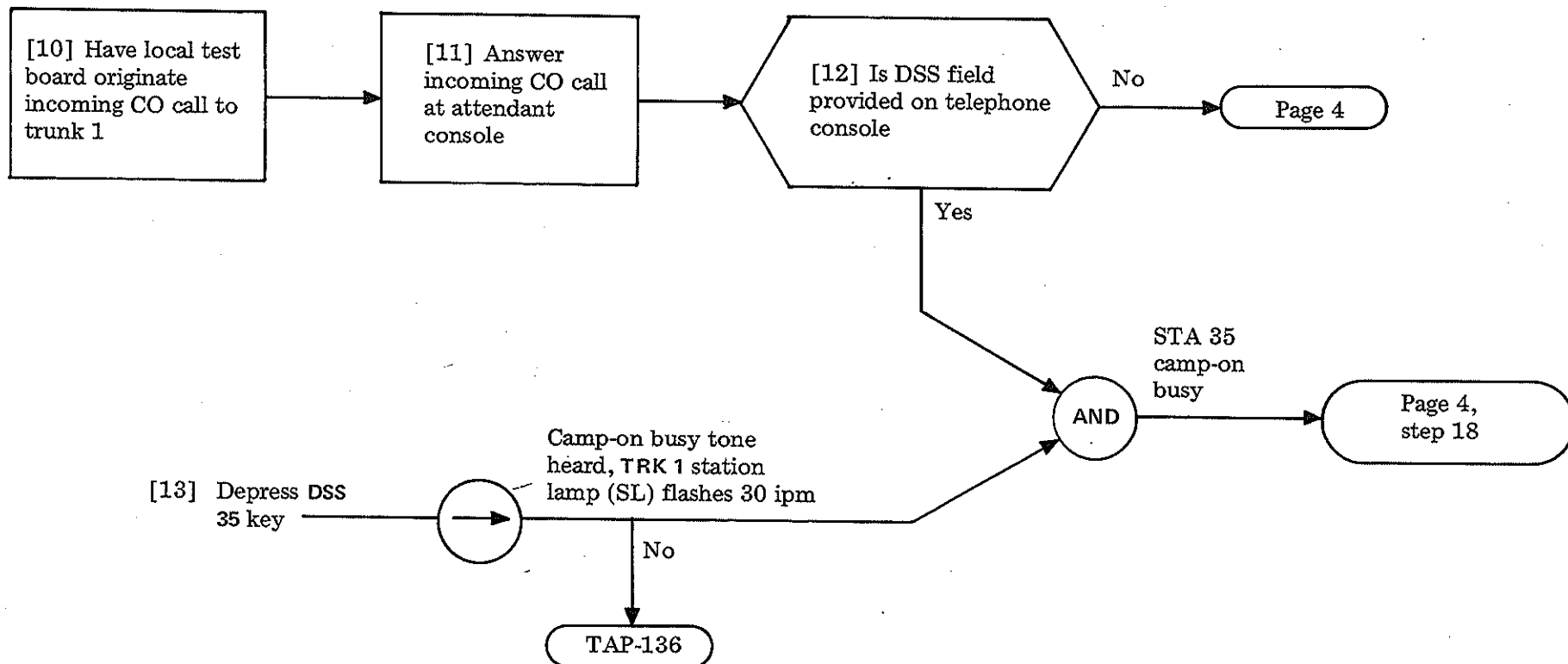
This procedure uses stations 35 and 45 and an incoming CO call to set up a camp-on call. Other stations may be substituted in the process if necessary. Originate an incoming CO call to console via local test board attendant.

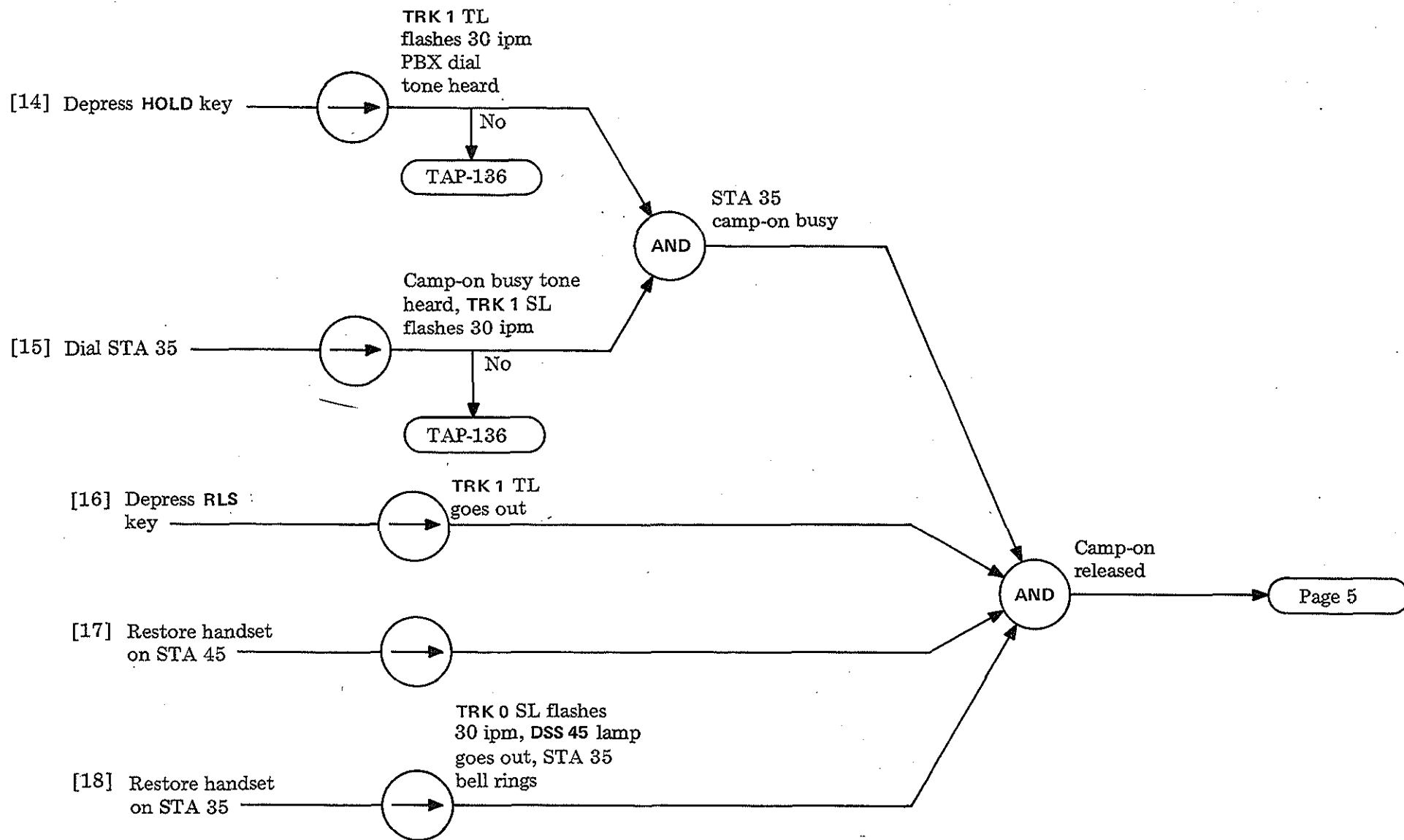




TEST CAMP-ON FEATURE

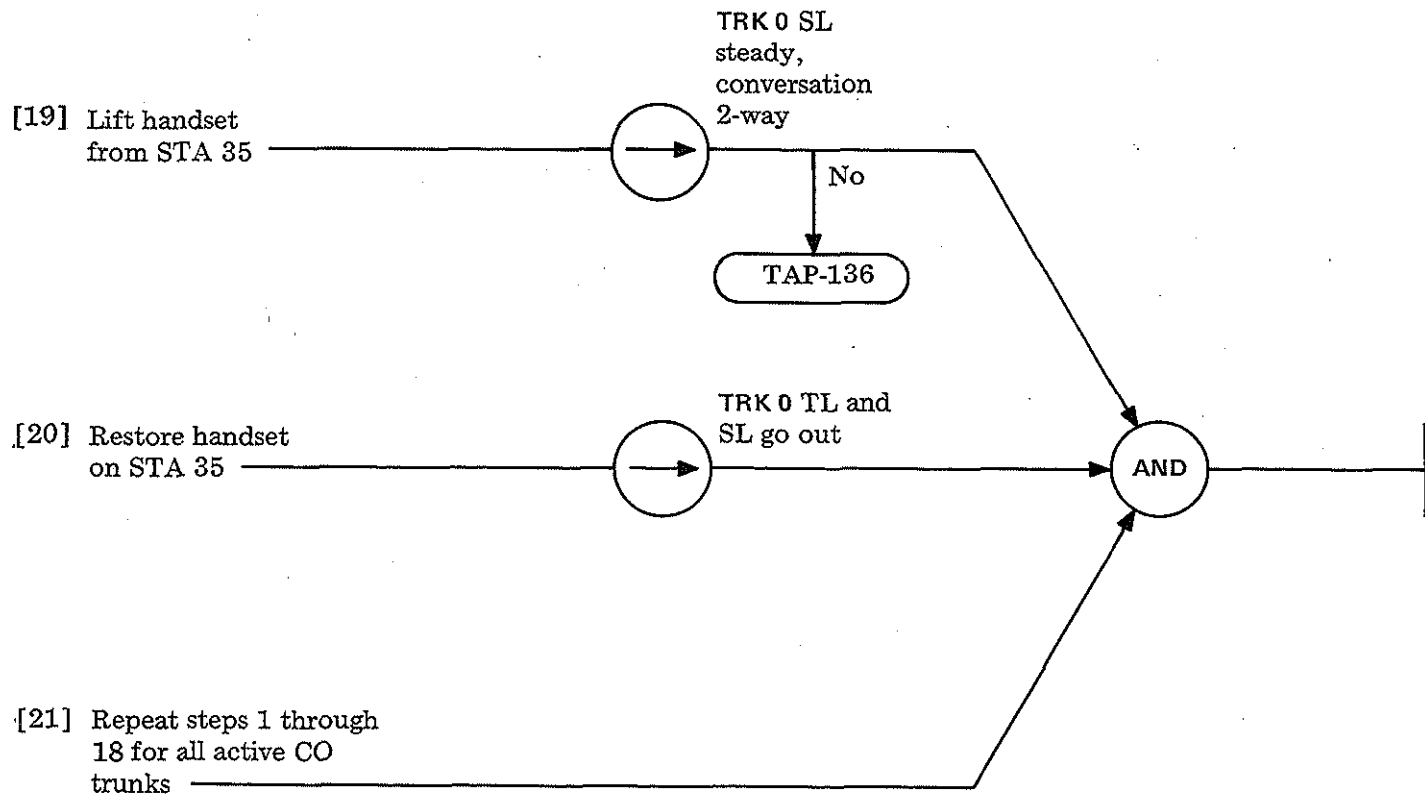
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TEST CAMP-ON FEATURE

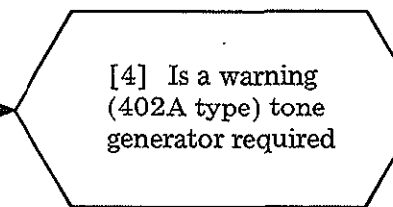
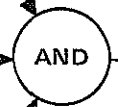
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[1] Unpack and mount **BUSY VERIFICATION TRUNK (BVT) J58829AJ-1, L1**, slide 4, position AB

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

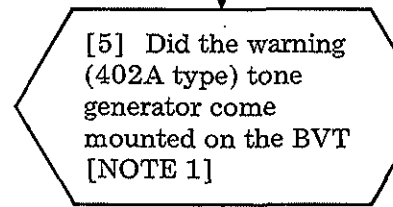
[3] Mate plug P1 to connector J1 on rear of BVT unit J58829AJ-1, L1



[4] Is a warning (402A type) tone generator required

No

Yes



[5] Did the warning (402A type) tone generator come mounted on the BVT [NOTE 1]

Yes

No

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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

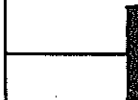


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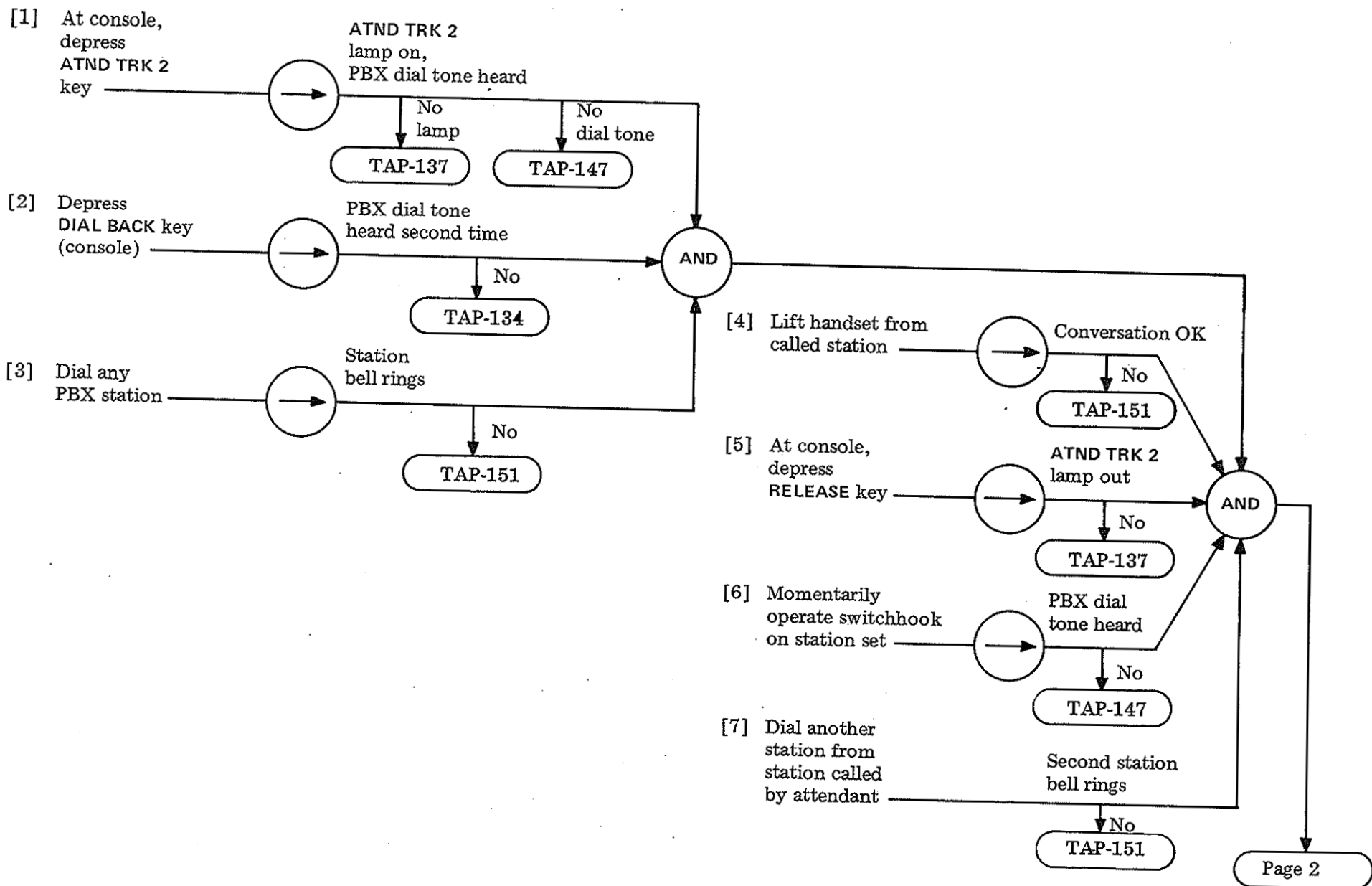
TABLE A

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]

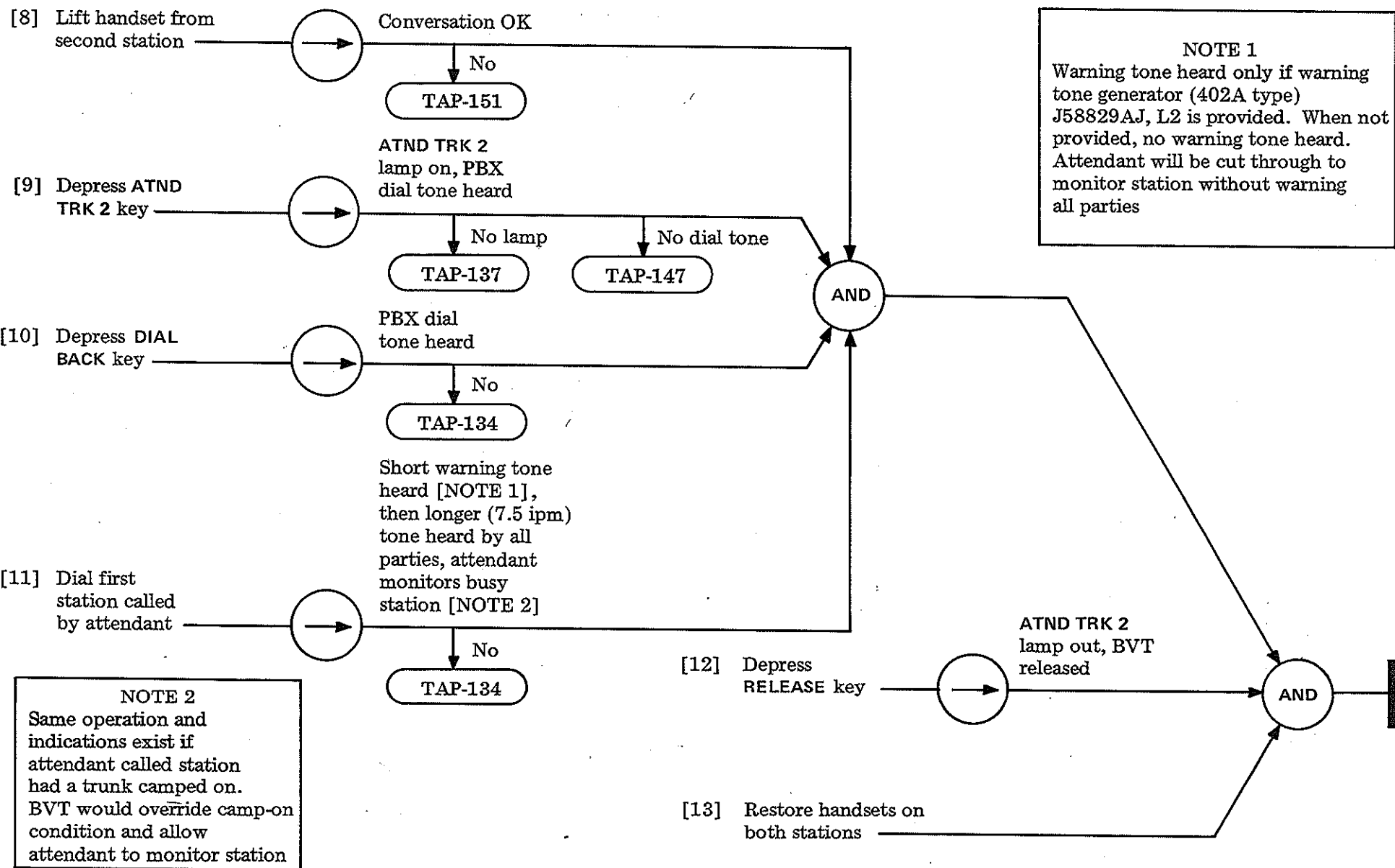


NOTE 2
On a system installation,
testing may be delayed until
all options and features
are installed.



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

Page 4

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				

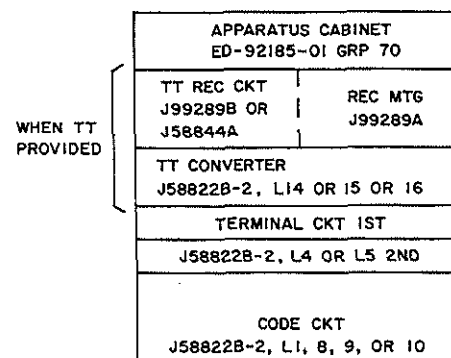


FIG. 1

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		○ T2-80			
1R	BL-W	2 ○			R2		○ R2-80			
	W-O	3 ○			S2		○ S2-80			
	O-W	9 ○			S				○ S-21	
	W-G	7 ○			T1			○ T1-21		
	G-W	8 ○			R1			○ R1-21		
	W-BR	10 ○			S1A				○ S1A-21	
	BR-W	13 ○			48V	○ BAT T80				
5T	W-S	16 ○			GRD	○ GRD T80				
5R	S-W			PAIR						
	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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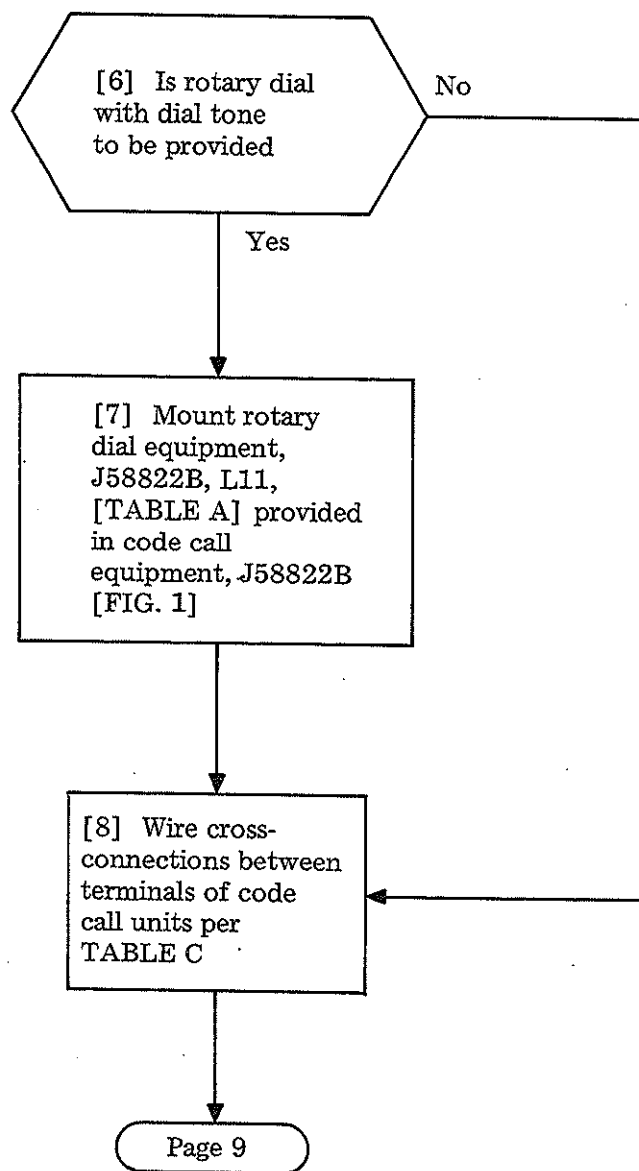


TABLE C				
CONNECT				
FROM		TO		
1ST TERM CKT	LEAD	2ND TERM CKT	CODE CKT	
TS-A (BOT) TERM		TS-A (BOT) TERM	TS (TOP) TERM	
1	CH	4		
2	CH	3		
3	CH	2		
4	CH	1		
9	CH	10		
10	CH	9		
11	H	11		
12	TN	12	1	
13	L	13	4	
14	SL	14	10	
15	P	15	9	
16	K	16	3	
			2	

[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

AND

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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	
13 ○	L	○ 13	○ 4
14 ○	SL	○ 14	○ 10
15 ○	P	○ 15	○ 9
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			○ 41					
48 ○		A2			○ 42					
38 ○		A3			○ 43					
28 ○		A4			○ 44					
18 ○		A5			○ 45					
57 ○		B1			○ 31					
47 ○		B2			○ 32					
37 ○		B3			○ 33					
27 ○		B4			○ 34					
17 ○		B5			○ 35					
56 ○		C1			○ 21					
46 ○		C2			○ 22					
36 ○		C3			○ 23					
26 ○		C4			○ 24					
16 ○		C5			○ 25					
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

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					○ 15			
	18 ○	H1					○ 11			
	28 ○	SH-2				○ 12				
	38 ○	SH-1				○ 7				
	48 ○	R3				○ 5				
	58 ○	T3				○ 4				
	13 ○	CC								
	15 ○	4			○ 27					
	25 ○	2			○ 37					
	35 ○	I			○ 47					
	45 ○	P	○ 4							
	55 ○	H	○ 3							
	26 ○	DP-1	○ 1							
	36 ○	DP			○ 18					
	46 ○	DC-1			○ 28					
	56 ○	DC			○ 38					
	42 ○	R			○ 48					
	52 ○	T								○ 13
	17 ○	H2								○ 12
	27 ○	SH-2							○ 11	
	37 ○	SH-1						○ 12		
	47 ○	R3						○ 7		
	57 ○	T3						○ 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						○ 17
11 ○				○ 10						○

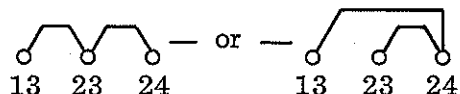
† Required when C1 TOUCH-TONE receiver, J58844A, LIST 1, is installed. Leads are terminated on a KS-14671, L1, plug and connected to the N connector, KS-14672, L1, on the J58844A receiver

[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)

NOTE 4

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



In either case, both straps are to be removed

NOTE 5

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

[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.

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

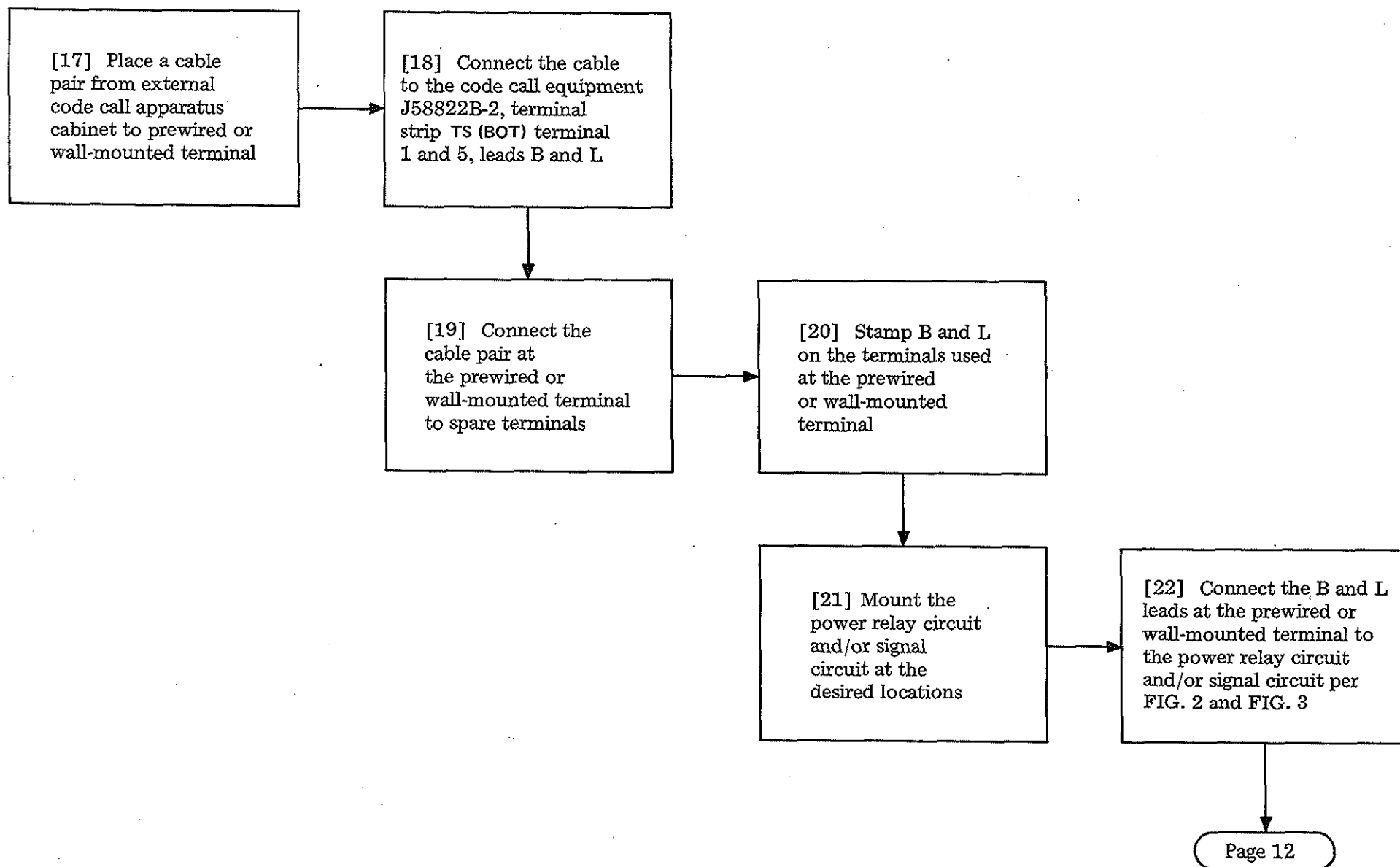
[16] Disconnect the winding of the L relay (20 through 29) associated with the line circuit assigned to the answering end by placing a 550B tool in the 1B, 2B or 4, 5, and 1T, 2T, or 2, 3 contacts of the associated LHM (20 through 29) off-normal relay springs

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

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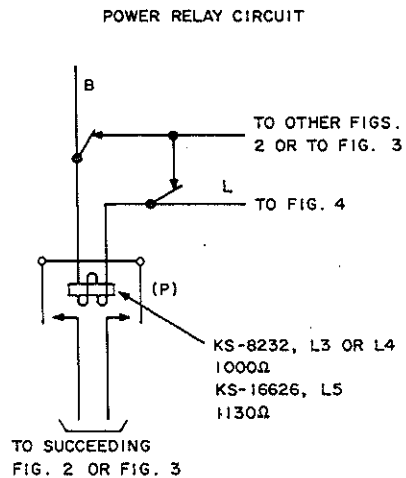


FIG. 2

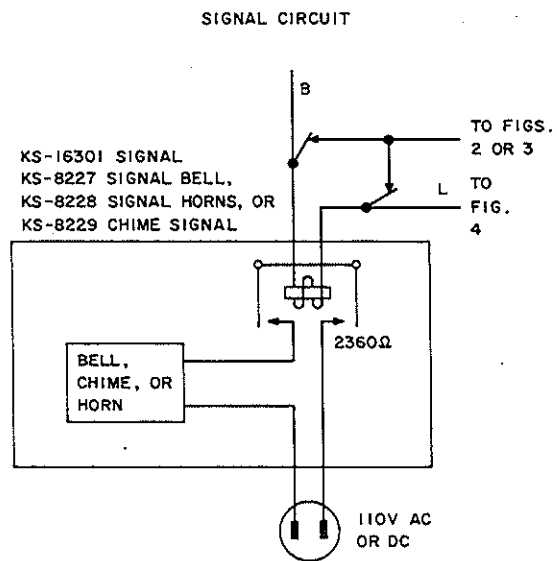


FIG. 3

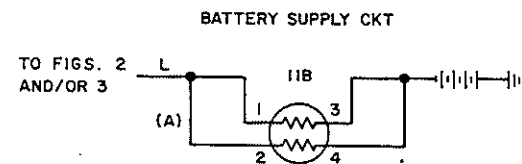


FIG. 4

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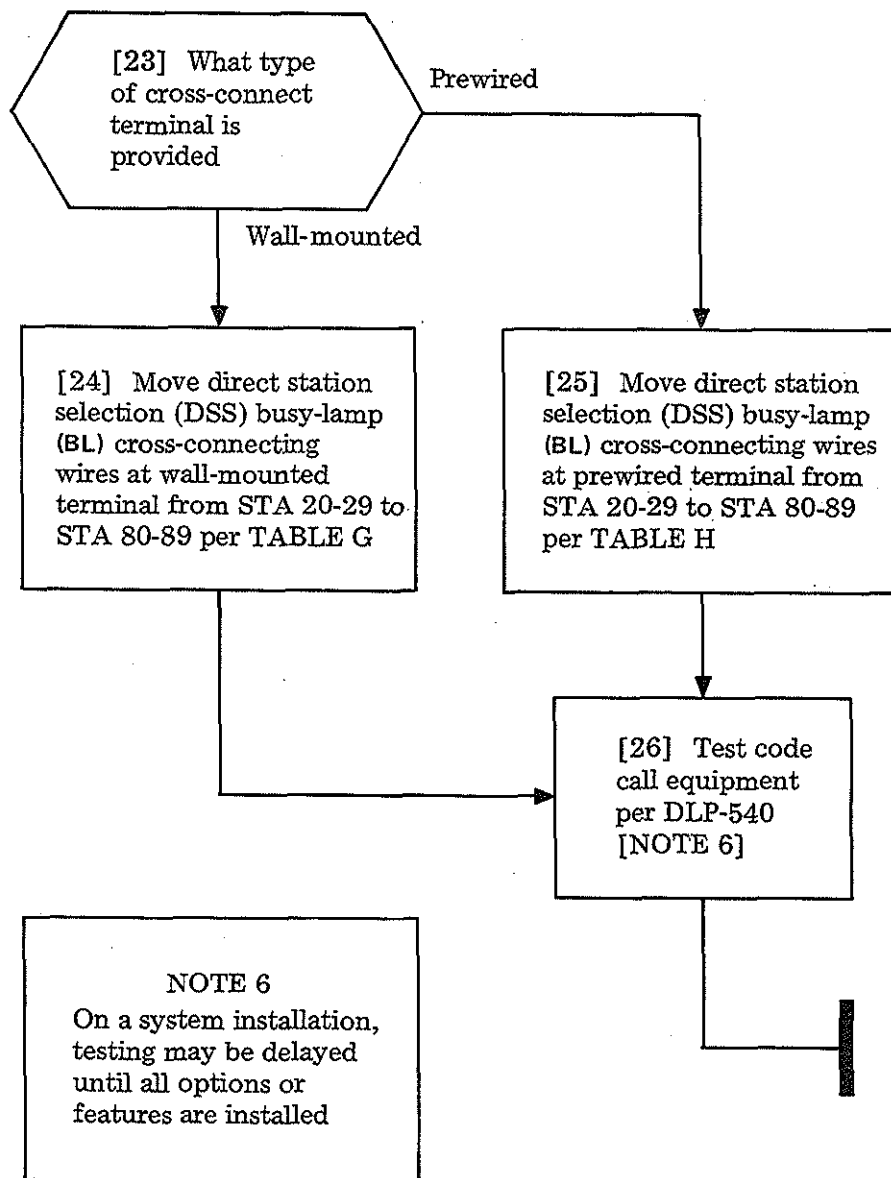


TABLE G							
WALL TERMINAL							
FROM				TO			
	COLOR	LEAD	TERM		COLOR	LEAD	TERM
G-W BINDER BLOCK A10	Y-BL	BL21	T16	BR-W BINDER BLOCK B10	Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	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

[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

AND

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

Conversation satisfactory

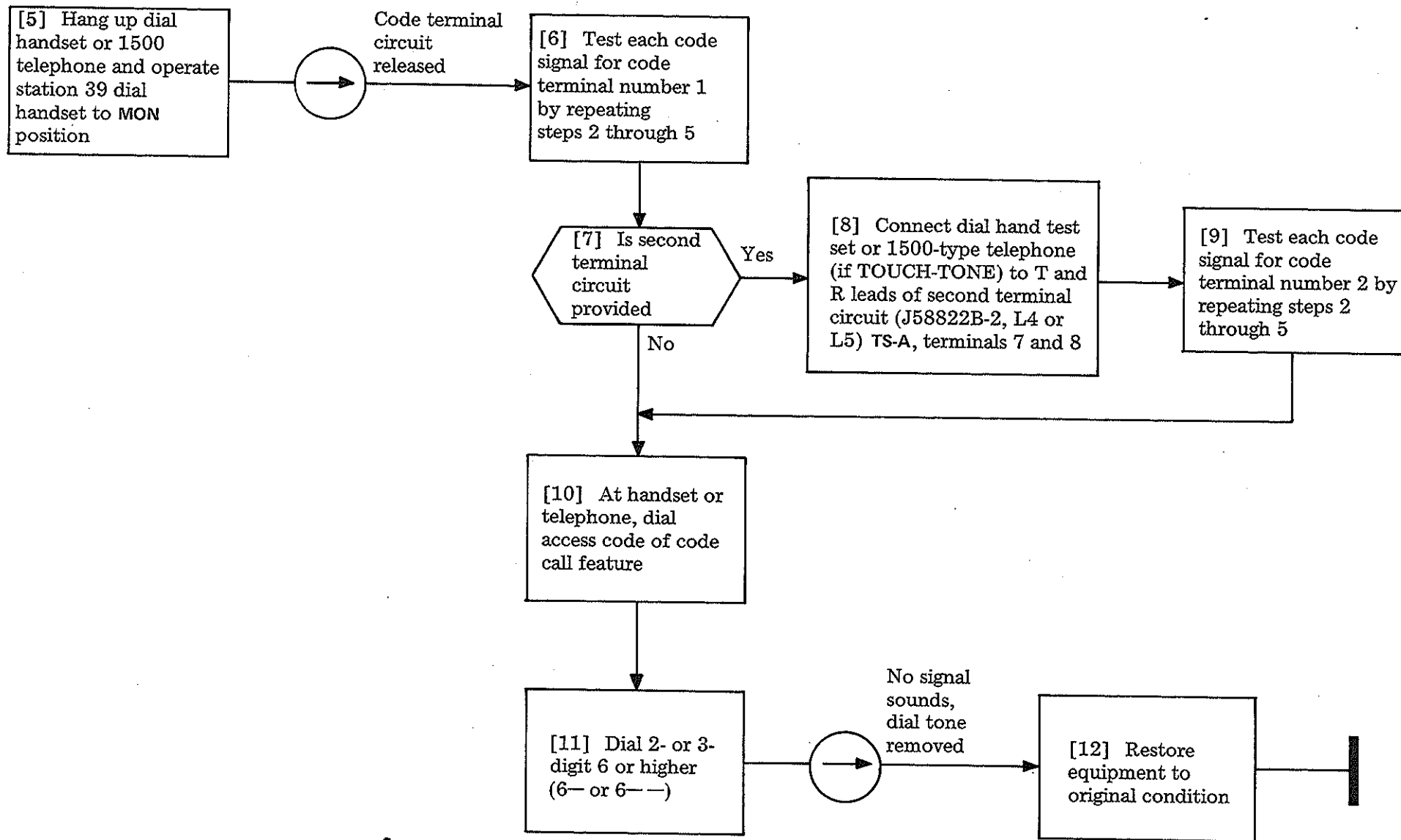
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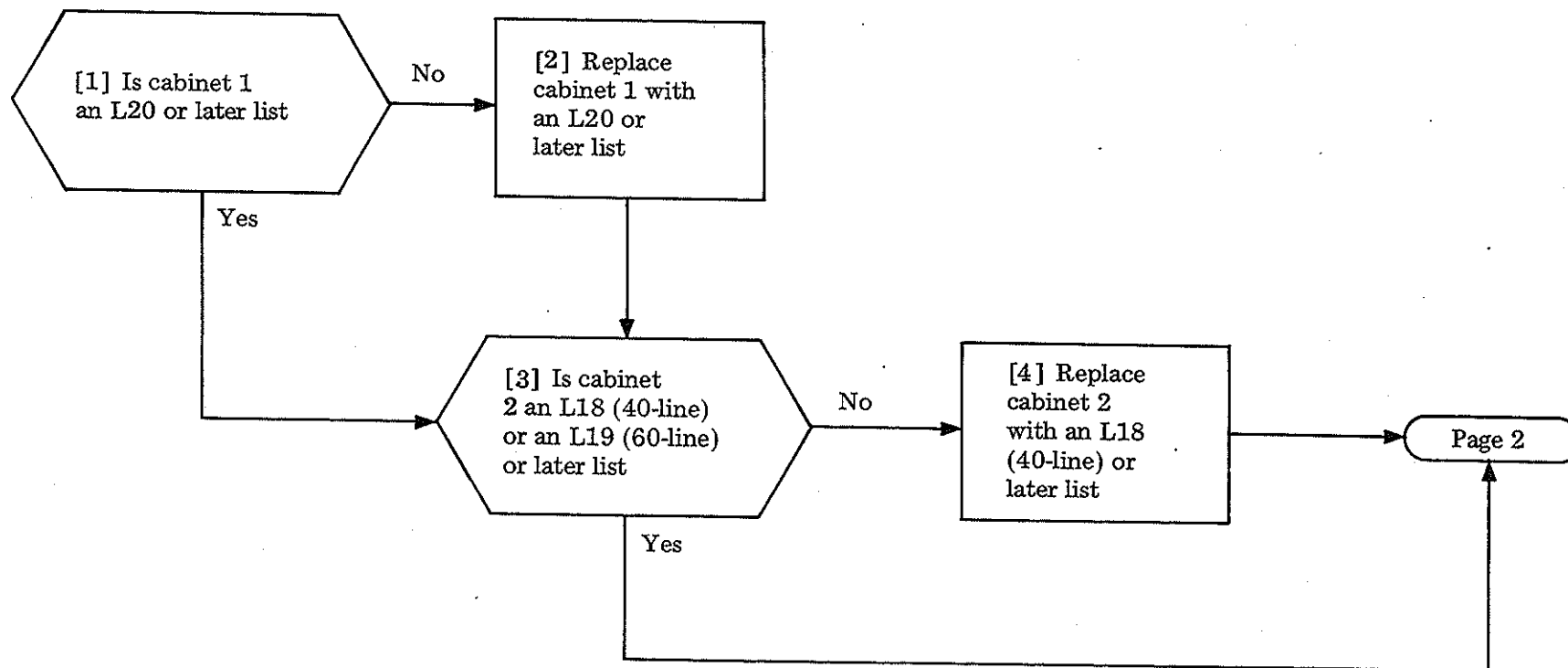
TAP-161

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NOTE

For 2- or 3-digit code, signaling may be 5 cycles or 3 cycles with 1-, 2-, or ½-second cycle. Check wiring options in DLP-539 to determine correct sound





[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

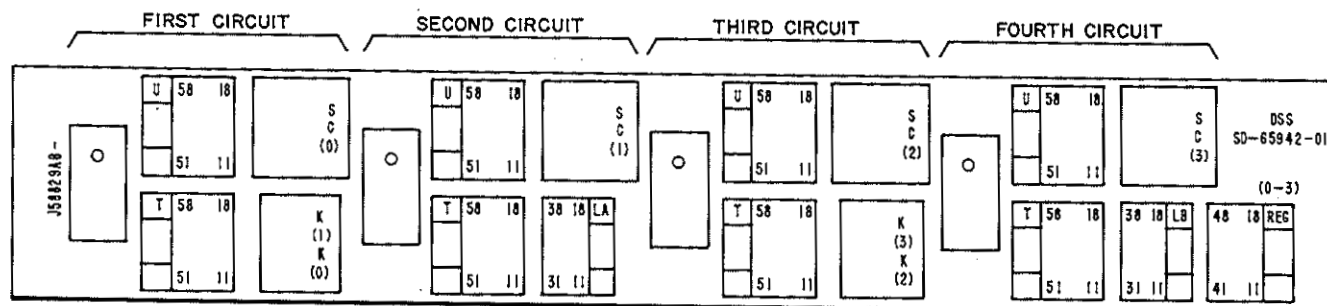


FIG. 1 – Auxiliary Station Relay Unit J58829AB

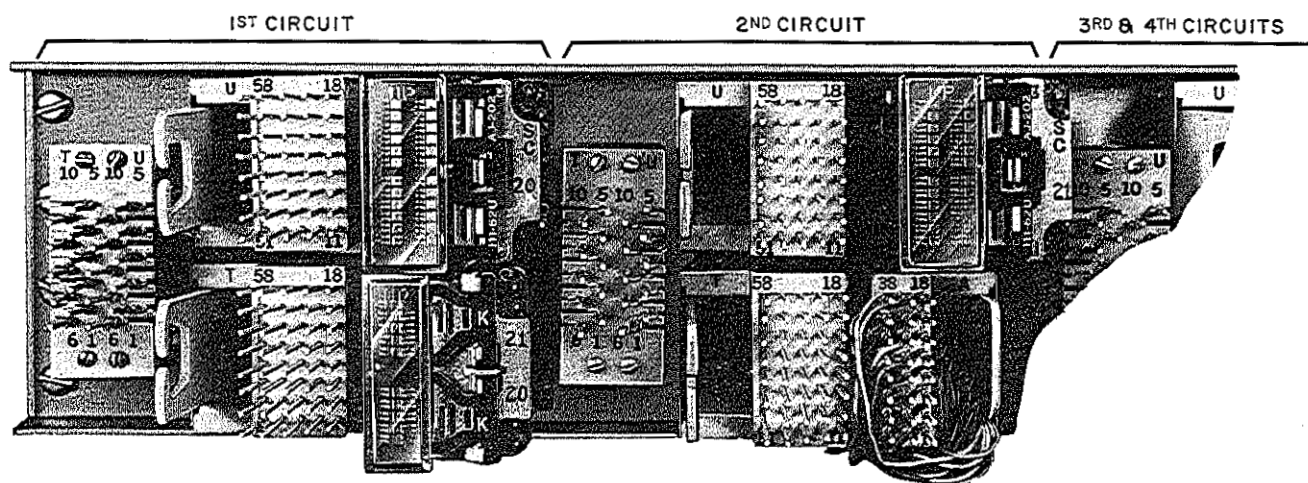


FIG. 2 – Part of Auxiliary Station Relay Unit Equipped with KS-14554 Plugs
Showing 1st and 2nd Circuits Assigned to Stations 20 and 21

- [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

AND

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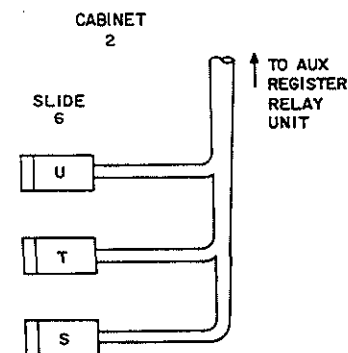


FIG. 3

- [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]

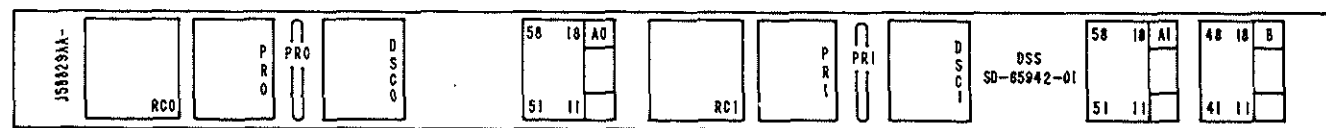


FIG. 4 - Auxiliary Register Relay Unit J58829AA

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

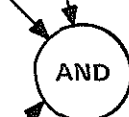
- [15] Connect 6-pair cable at cross-connect terminal to T and R leads of station(s) controlling DSS and to REG TS on auxiliary station relay unit per TABLE B



- [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	

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

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[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

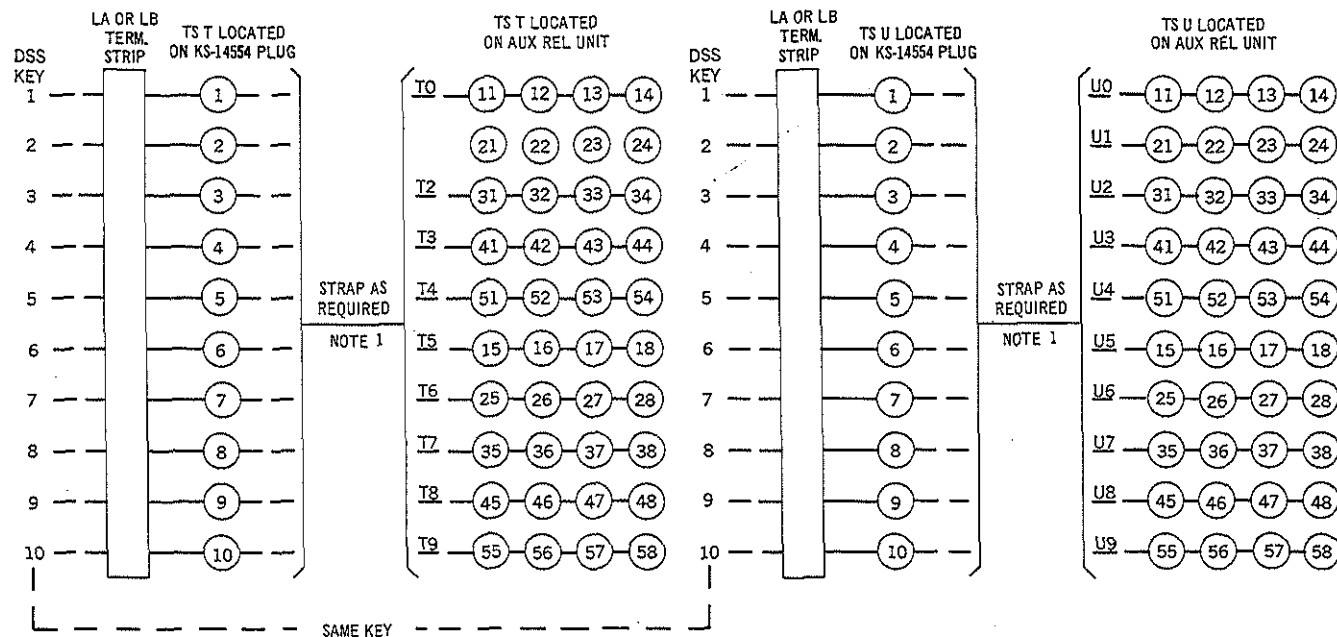
[24] Insert spare fuse (70P type) and fuse cap in fuse holder (+48V) marked DSS (slide 1Z)

AND

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

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

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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

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

*LG term on rear of auxiliary station relay unit

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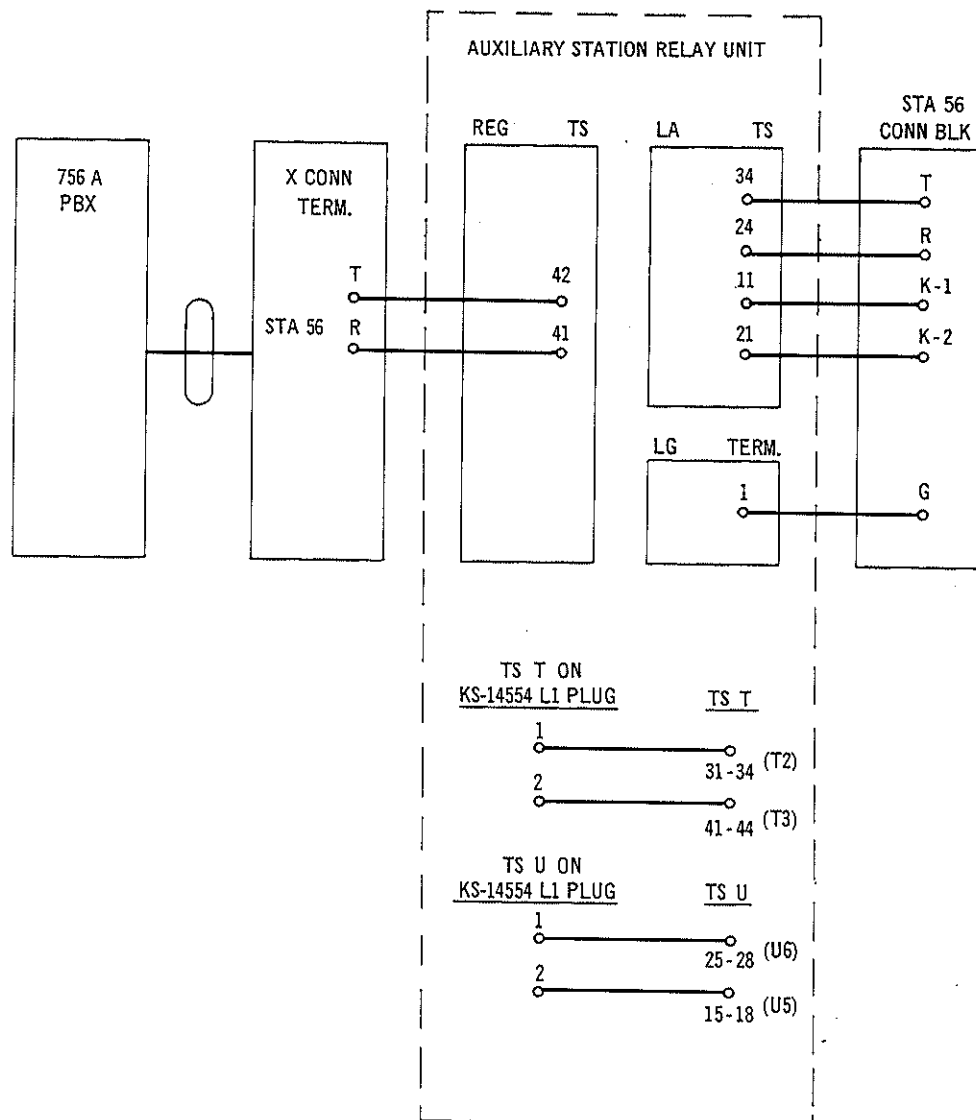
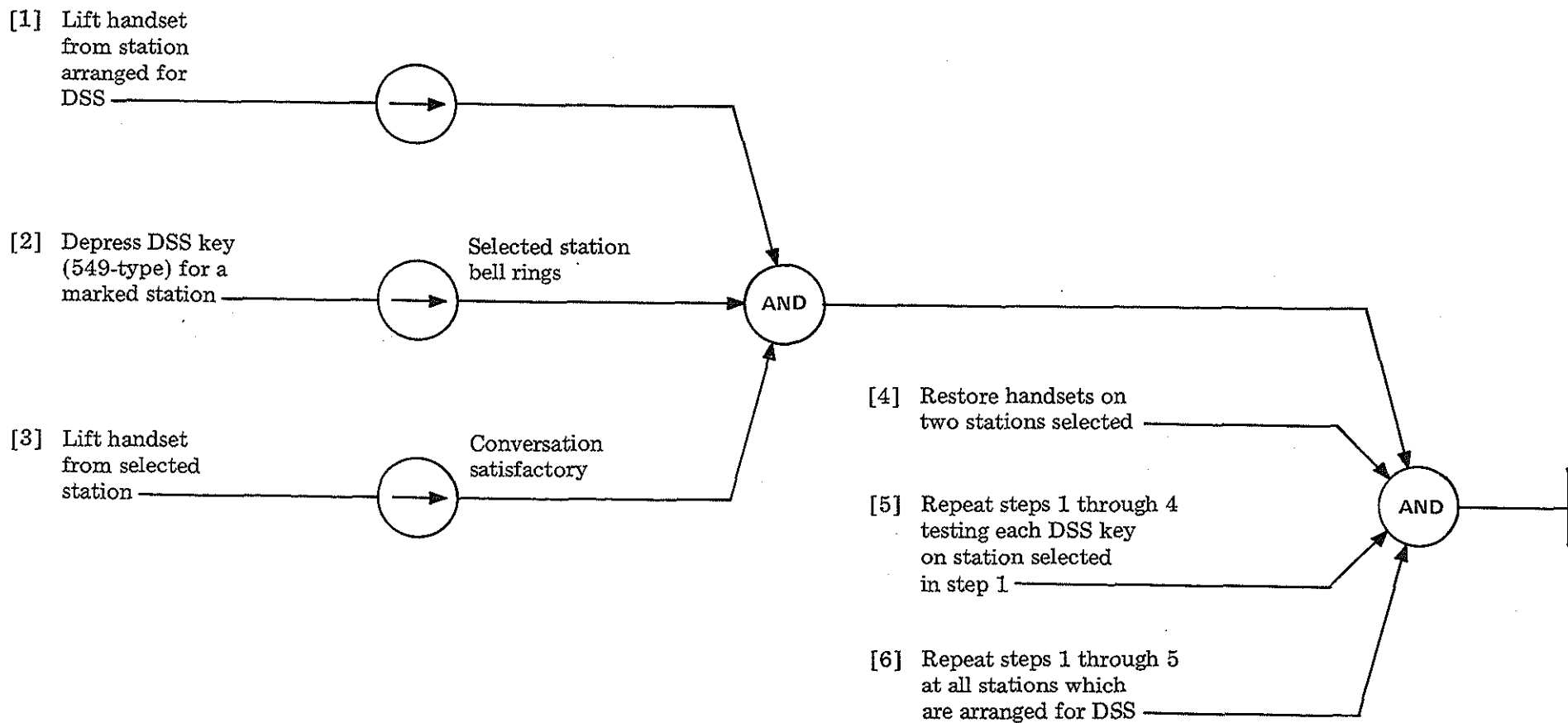


FIG. 6 — Typical Wiring Arrangement Showing Station 56 Assigned to the 1st DSS Circuit and Arranged to Direct Select Stations 26 and 35.

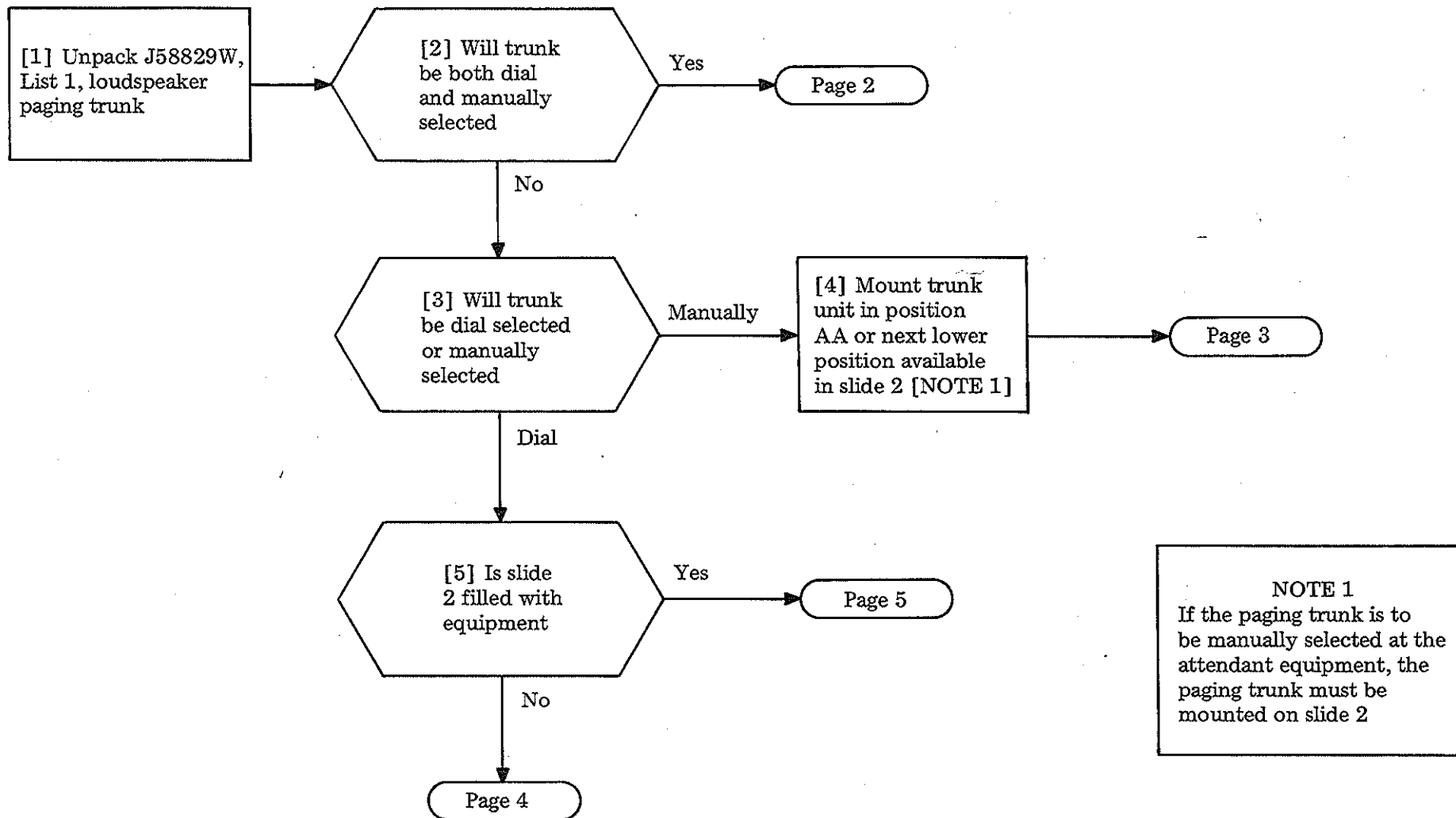
INSTALL AND TEST DIRECT STATION SELECTION (DSS) BY STATION EQUIPMENT (SD-65942)

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TEST DIRECT STATION SELECTION (DSS) BY STATIONS FEATURE

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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

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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 ○ S2 ○ T1-1 ○ T ○ R1-1 ○ R	IT1 ○ IT2 ○ HM-1 ○ HM-2 ○		25 ○
* 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

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[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
35 ○		16		BK-BL 21	16
34 ○		26		BL-BK 22	17
33 ○		36		BK-O 23	18
					SL1 Keyset
					SL3 2nd console
					SL2 1st console
18 ○		17		BK-G 25	20
17 ○		27		G-BK 26	21
13 ○		37		BK-BR 27	22
11 ○		47		BR-BK 28	23
					Paging amplifier
COE4 26 ○		18		BK-S 29	24
COE3 25 ○		28		S-BK 30	25
COE2 24 ○		38		Y-BL 31	26
23 ○					Customer-owned equipment*
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 ○									
17 ○									
16 ○									
32 ○									
31 ○									
13 ○					37		Block A4 BK-BR 27	Block D1 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	

* 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

[15] Place straps per TABLE D [NOTE 3]

[16] Refer to NOTE 4 and if required, mount a 19A146 shield to the A relay in the paging trunk unit

[17] Place paired wire from cross-connect terminal (wall-mounted or prewired) to paging amplifier [TABLE H]. A line code 85 through 89 series must be used.

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TABLE D							
TERMINAL STRIP ON LOUDSPEAKER PAGING UNIT	TERMINAL STRIP ON SELECT MAGNET CONTROL UNIT		TERMINAL STRIP ON TIE TRUNK ADAPTER UNIT SLIDE 2, L-P			DIAL PULSE REGISTER 0 AND 1 MISC TERM STRIP SLIDE 6	WALL OR PREWIRED TERMINAL SECTION
	A	B	D	LINE	B		
38 ● ——— ● BAT 36 ● ——— ● GRD 18 ● ——— ● R2 17 ● ——— ● T2 16 ● ——— ● S2 32 ● 31 ●		} § R2 T2 S2		* ——— ● HM ——— ● IT	● S1 ● S2 ● T1-1 ● T ● R1-1 ● R	13 ● ——— 14 ● ——— 23 ● ——— 24 ● ——— 15 ● ——— 25 ● ———	
13 ● 11 ●		R 85 T to 89 } §					● ● †
23 ● ——— 22 ● ———			HM-1 ● ——— HM-2 ● ——— IT1 ● ——— IT2 ● ———				

* Remove straps

† See TABLE H for connections to paging amplifier

§ Select assigned spare access code, 85 to 89, for strapping R2, T2, S2, R and T

NOTE 4
If certain mounting position is not available, the effect of power induction can be reduced by adding a 19A146 shield to the relay in the paging trunk unit

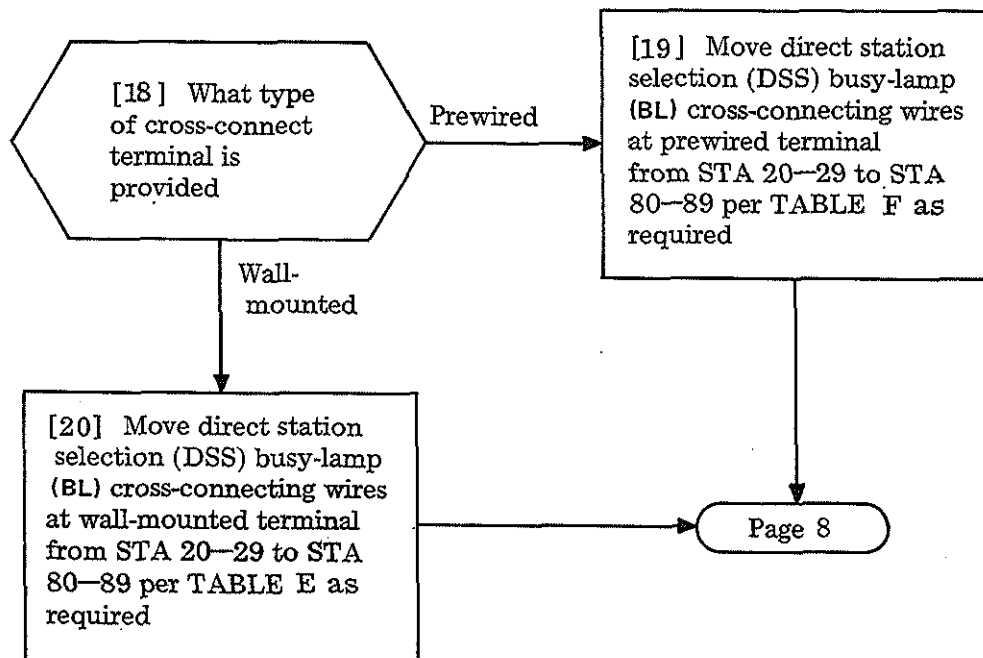


TABLE E							
WALL TERMINAL							
FROM				TO			
G-W BINDER BLOCK A10	COLOR	LEAD	TERM	BR-W BINDER BLOCK B10	COLOR	LEAD	TERM
	Y-BL	BL21	T16		Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	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 F							
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

[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

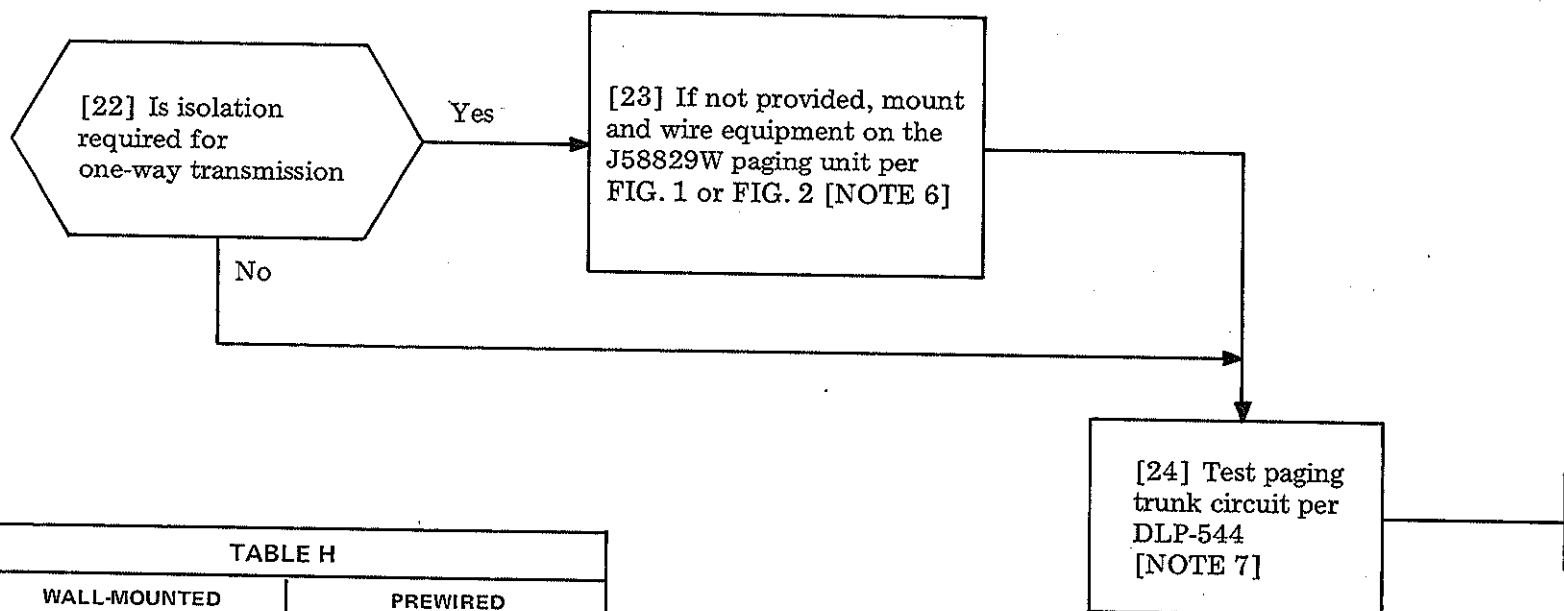


TABLE H	
WALL-MOUNTED TERMINAL	PREWIRED TERMINAL SECTION
Block A3	Block A1
T 11 } 85	T 11 } 85
R 12 } 85	R 12 } 85
T 13 } 86	T 13 } 86
R 14 } 86	R 14 } 86
T 15 } 87	T 15 } 87
R 16 } 87	R 16 } 87
T 17 } 88	T 17 } 88
R 18 } 88	R 18 } 88
T 19 } 89	T 19 } 89
R 20 } 89	R 20 } 89

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

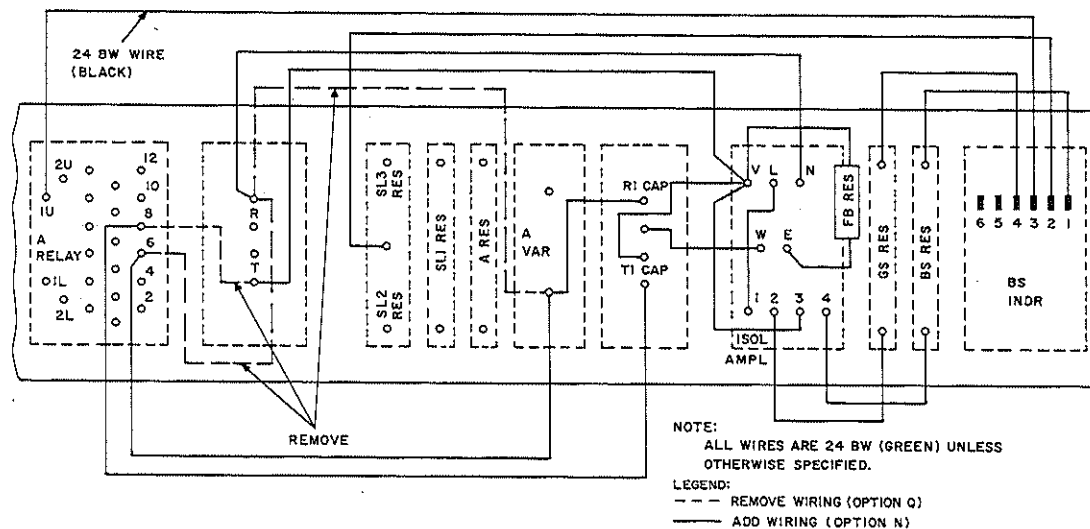


FIG. 1—Wiring for J58829W, List 3 Isolation Amplifier (SD-65747-01, Issue 8 or Earlier)

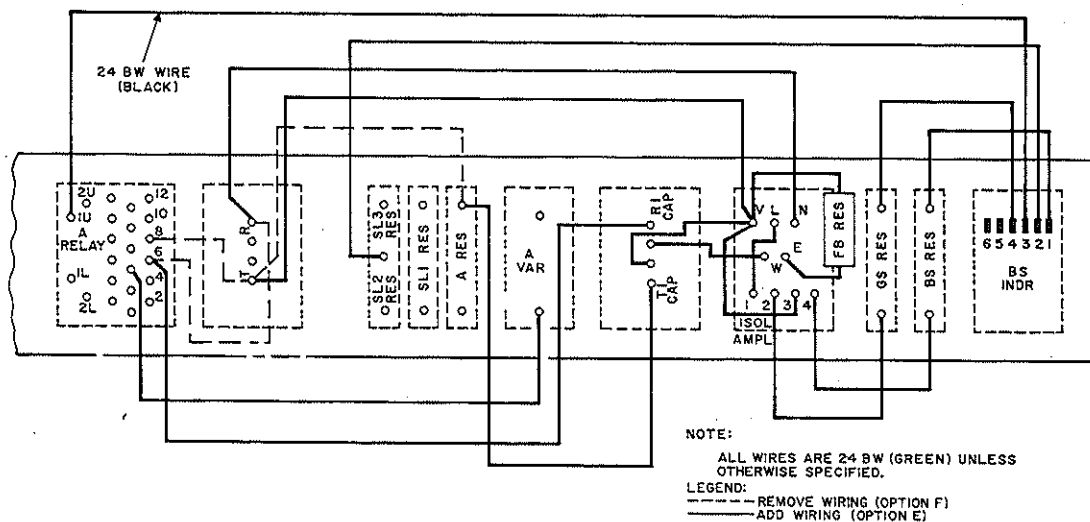


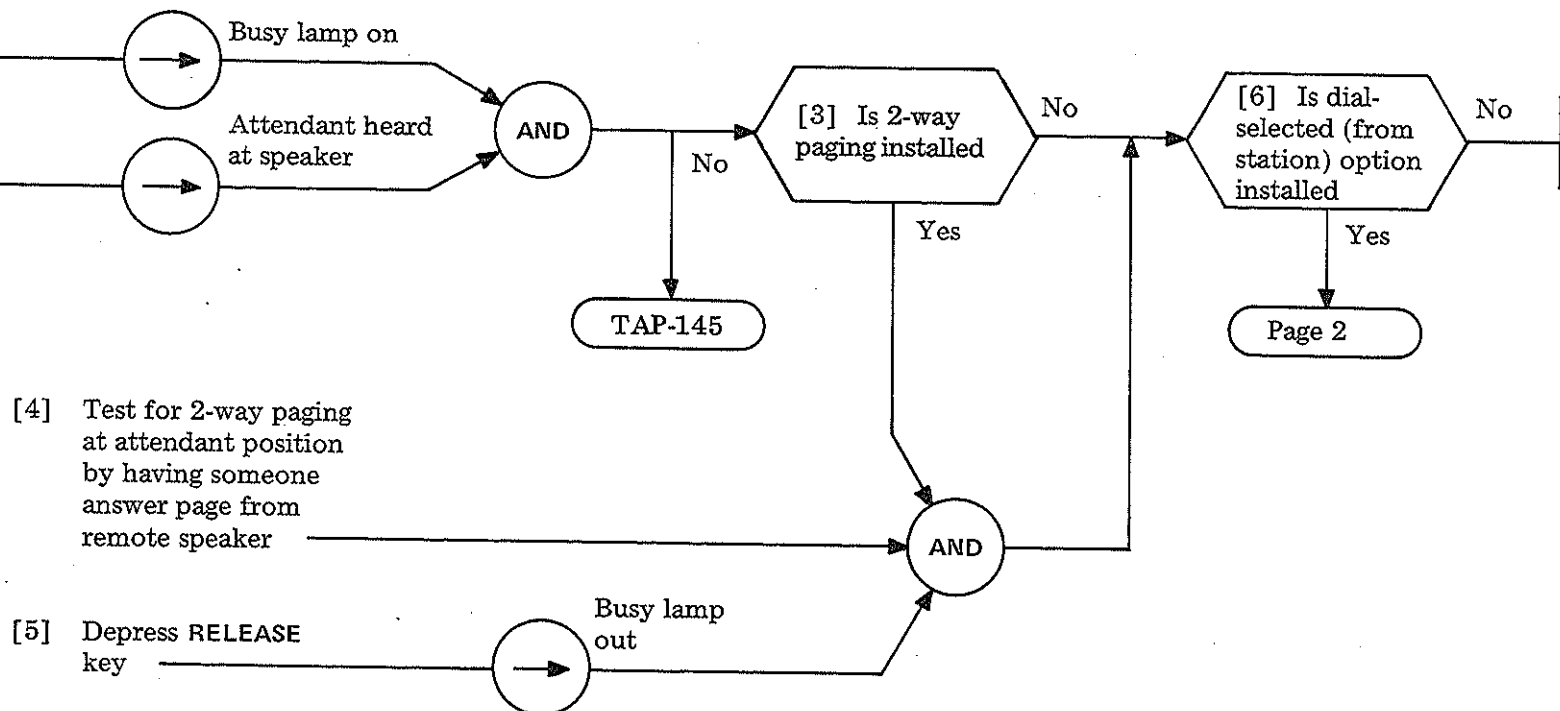
FIG. 2—Wiring for J58829W, List 3 Isolation Amplifier (SD-65747-01, Issue 9D or Later)

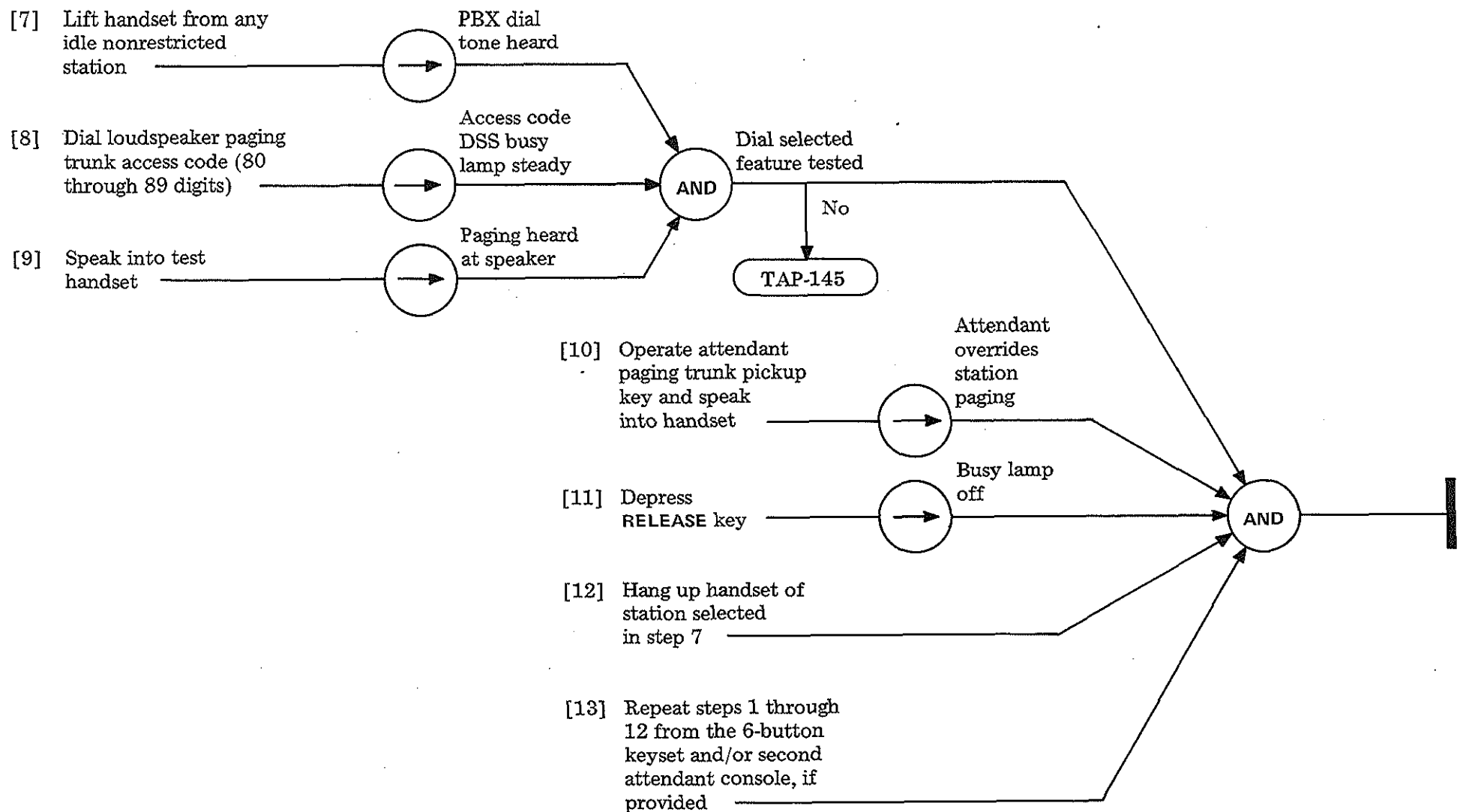
INSTALL AND TEST LOUDSPEAKER PAGING TRUNK EQUIPMENT (SD-65747)

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

[2] Speak into handset





TEST LOUDSPEAKER PAGING TRUNK FEATURE

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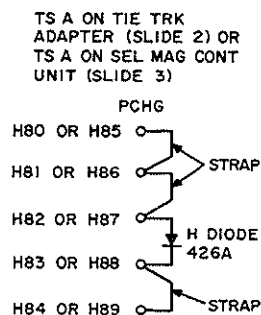
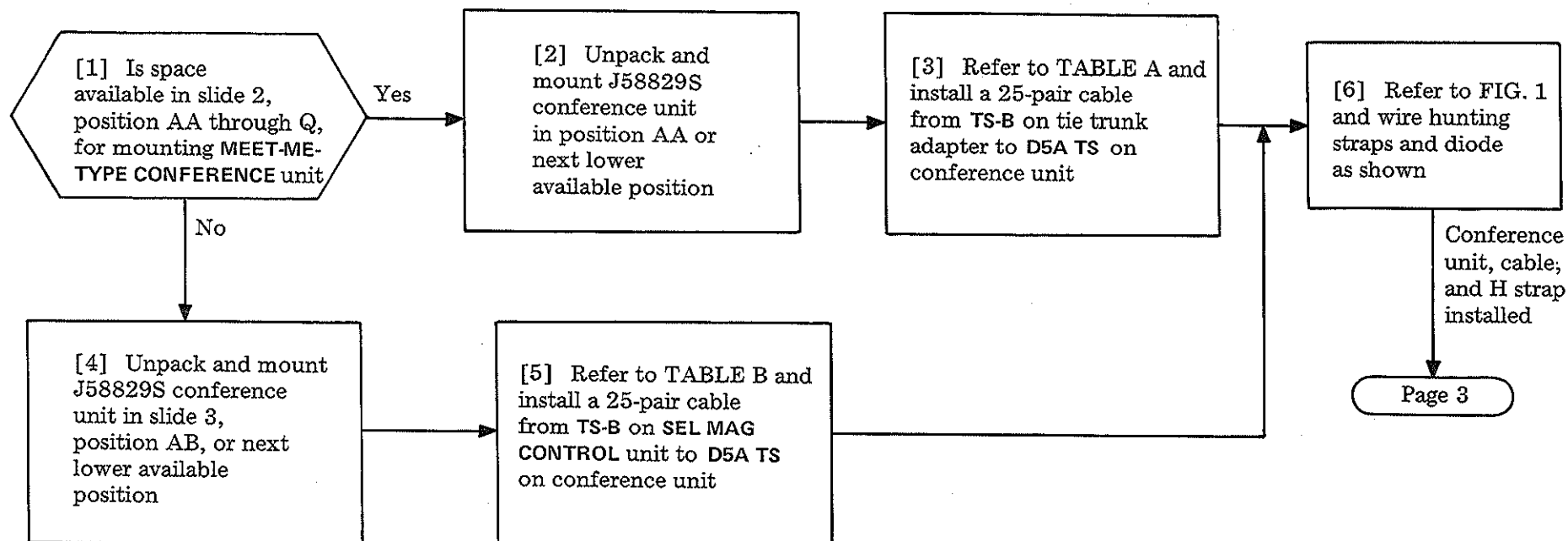


FIG. 1

TABLE A				
FROM		LEAD COLOR	TO	
TS-B ON TIE TRK ADAPTER (SLIDE 2)			D5A TS ON CONVERENCE 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

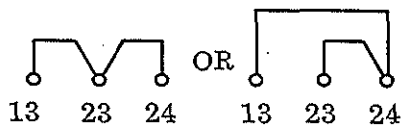
[9] Remove straps T to T1-1 and R to R1-1 on TS-B (slide 2) for each universal line circuit (80 through 89) used for conference circuit

[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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NOTE 1

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



In either case both straps are to be removed

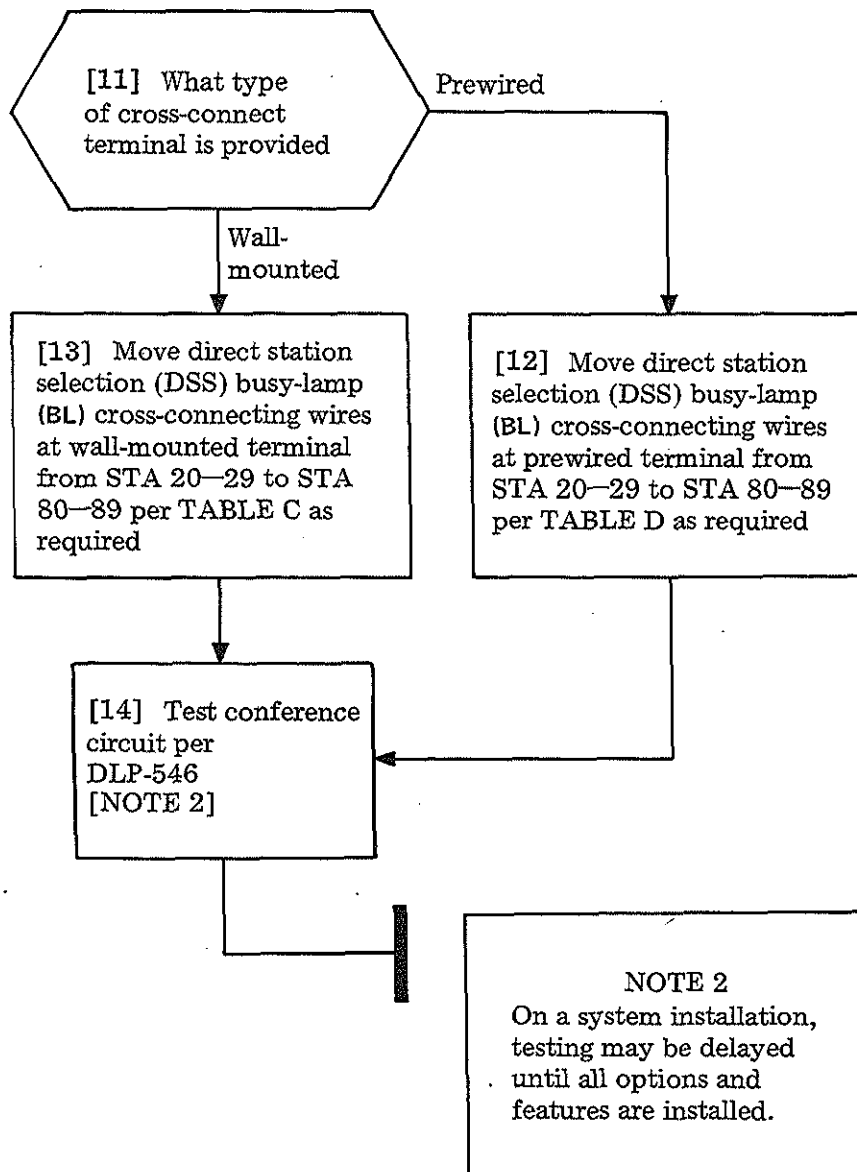


TABLE C							
WALL TERMINAL							
FROM				TO			
G-W BINDER BLOCK A10	COLOR	LEAD	TERM	BR-W BINDER BLOCK B10	COLOR	LEAD	TERM
	Y-BL	BL21	T16		Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	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)

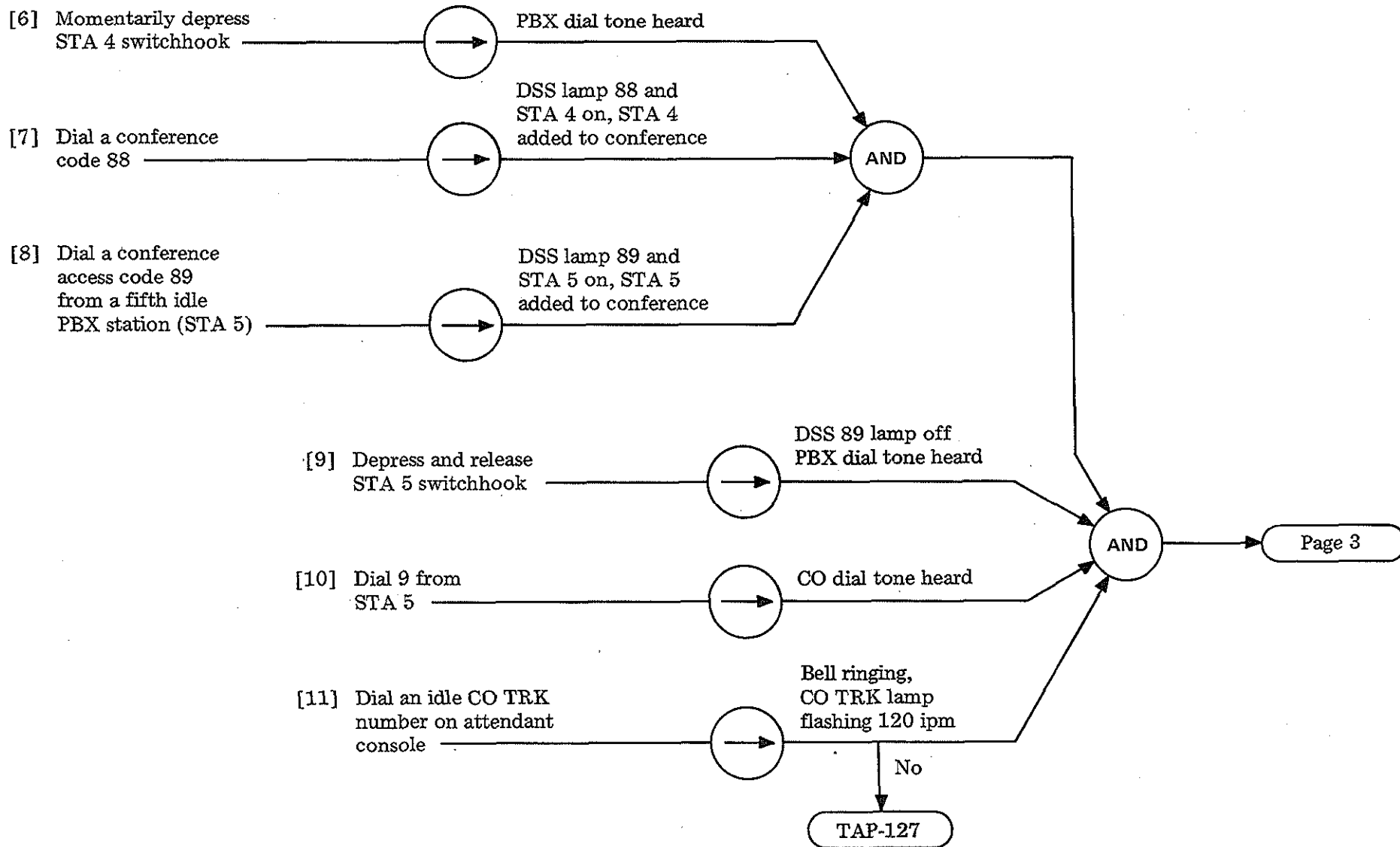
[5] Dial a conference access code 85 from a fourth idle PBX station (STA 4)

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

AND

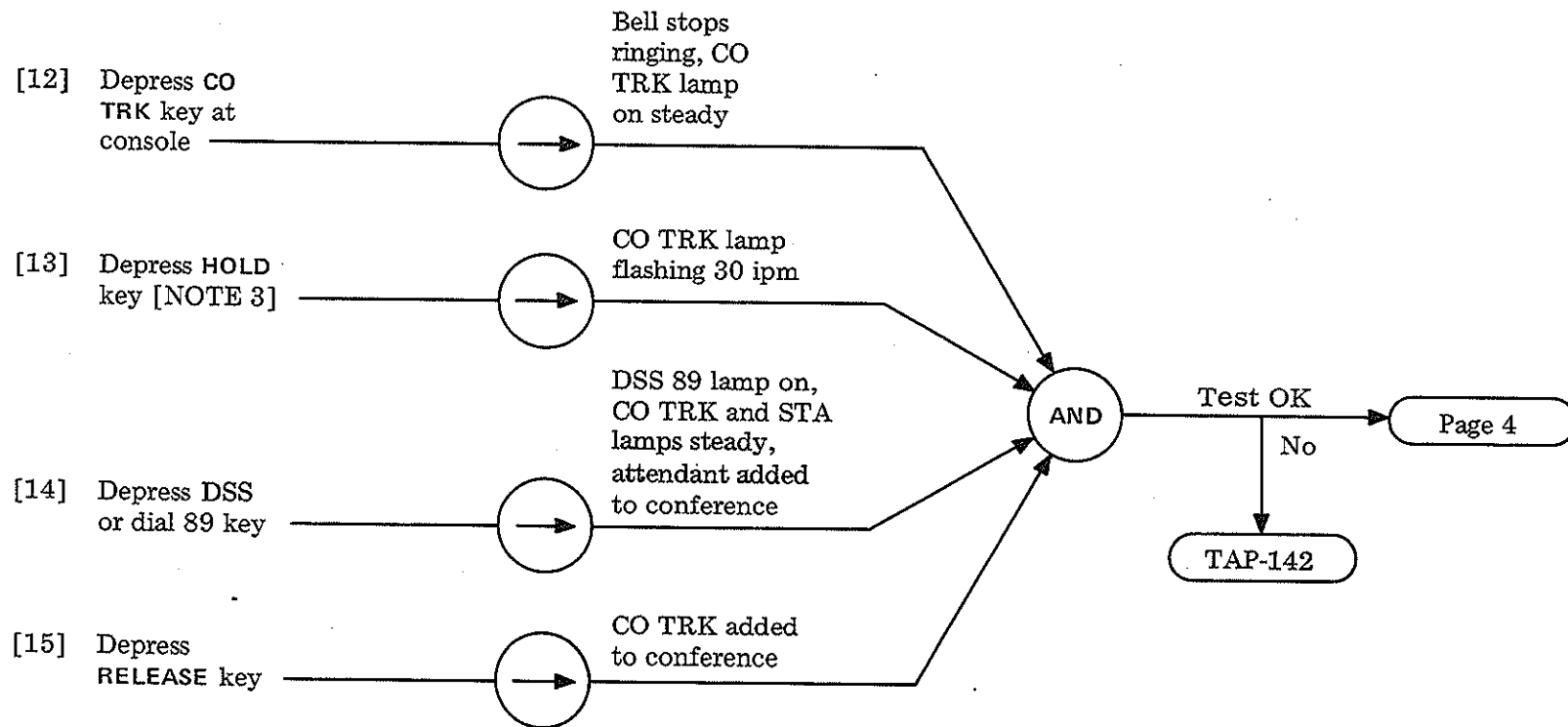
Busy tone heard

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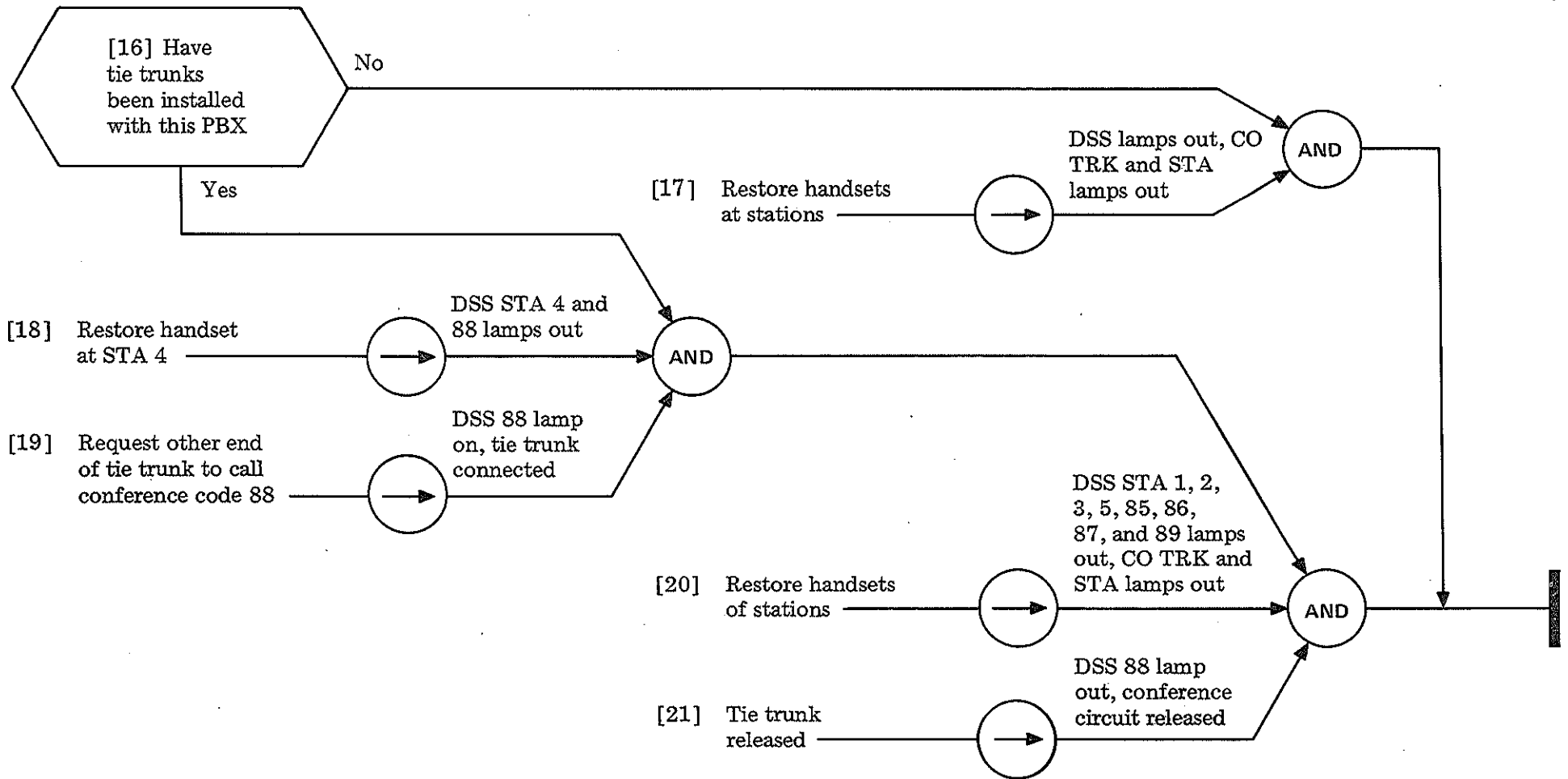


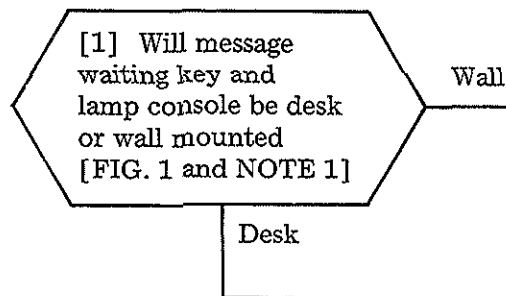
TEST MEET-ME-TYPE CONFERENCE FEATURE

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





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]

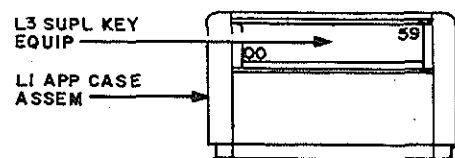


FIG. 2

[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]

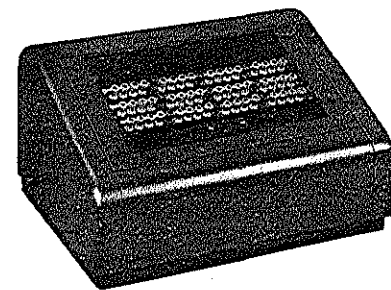


FIG. 1

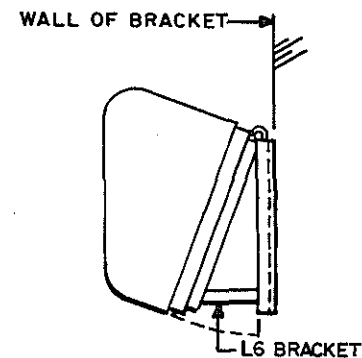


FIG. 3

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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

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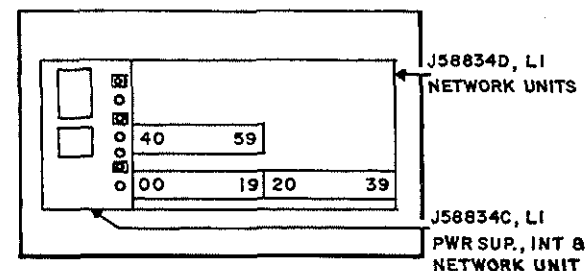


FIG. 4

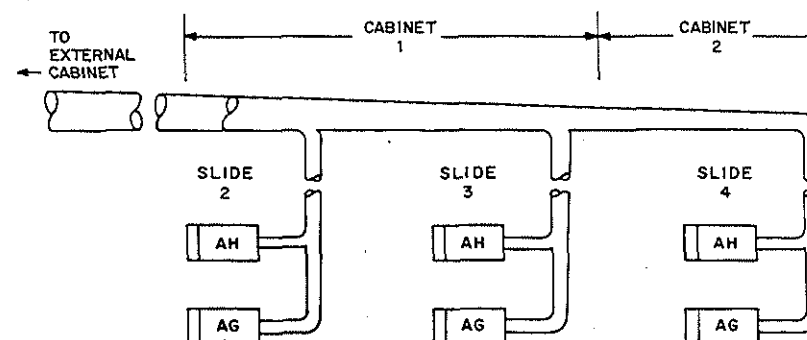


FIG. 5

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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]

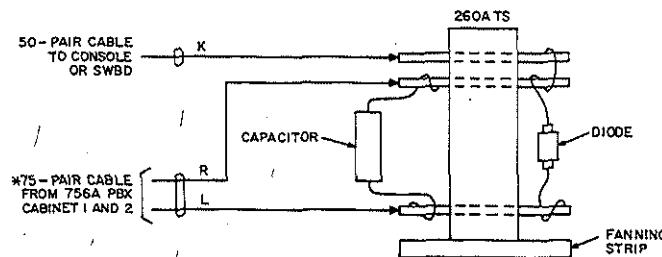
[12] Connect the white and black leads of 3-conductor power cord (part of J58829A, L42) to respective punchings of AC power key of power supply mounted in external cabinet and connect green lead to chassis ground punching

[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)



* ALL CABLE CONNECTIONS ARE MADE TO THE CAPACITOR SIDE OF INDIVIDUAL TS CIRCUITS.

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							
BL-W BINDER	PAIR	COLOR	LEAD	PWR SUP, INT & NET TS		BL-W BINDER	PAIR	COLOR	LEAD	PWR SUP, INT & NET TS		O-W BINDER	PAIR	COLOR	LEAD	PWR SUP, INT & NET TS		O-W BINDER	PAIR	COLOR	LEAD	PWR SUP, INT & NET TS	
	1T	W-BL	L	L	00		16T	Y-BL	L	L	15		31T	R-BL	L	L	30		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				

TABLE B

CONNECT			FROM	TO		CONNECT			FROM	TO		CONNECT			FROM	TO	
BL-W BINDER	PAIR	COLOR	PCHG ON NETWORK TS	PCHG ON CSL OR SWBD TS	PBX STA NO.	BL-W BINDER	PAIR	COLOR	PCHG ON NETWORK TS	PCHG ON CSL OR SWBD TS	PBX STA NO.	O-W BINDER	PAIR	COLOR	PWR SUP, INT & NET	PCHG ON CSL OR SWBD TS	LEAD
	1T	W-BL	K0	00	20		16T	Y-BL	K30	30	50		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						
	2R	O-W	K3	03	23		17R	O-Y	K33	33	53						
	3T	W-G	K4	04	24		18T	Y-G	K34	34	54	32T	R-O	(D) Res Term.	14	C	
	3R	G-W	K5	05	25		18R	G-Y	K35	35	55	32R	O-R	Chassis GRD Term.	0	G	
	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	Pairs 33 thru 50 are spare					
	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							
	11T	BK-BL	K20	20	40	O-W BINDER	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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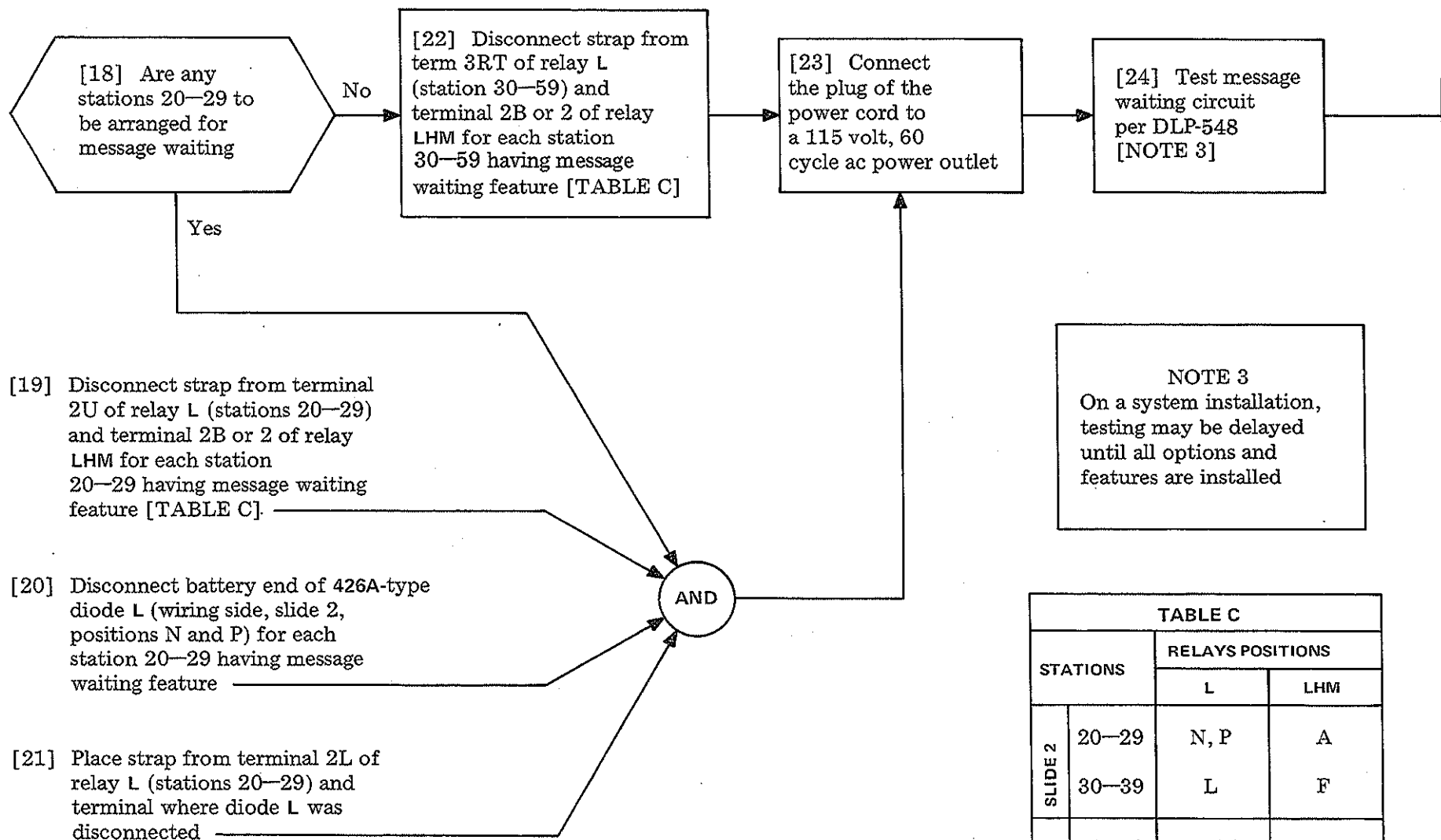


TABLE C			
STATIONS		RELAYS POSITIONS	
		L	LHM
SLIDE 2	20-29	N, P	A
	30-39	L	F
SLIDE 3	40-49	L, M	A
	50-59	L, M	F

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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

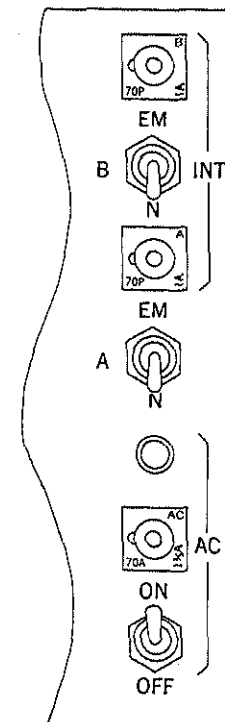
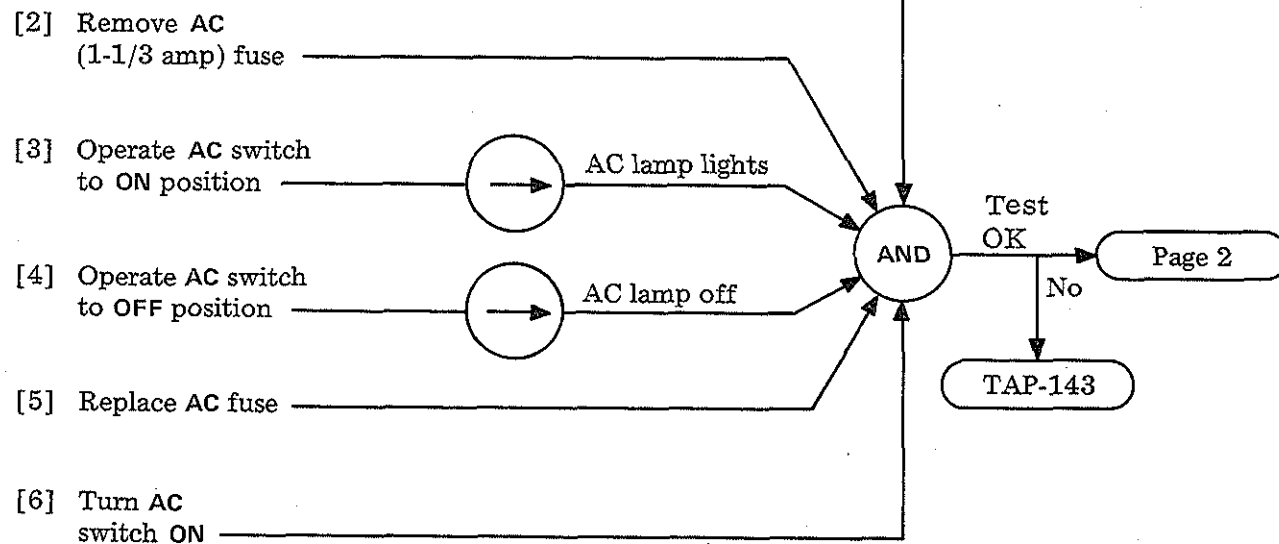


FIG. 1—Message Waiting Power Controls (External Cabinet)

[7] Operate A and B switches to EM position

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

[9] Momentarily operate B FL key

[10] Operate A and B switches to N position

[11] Momentarily operate A FL key

[12] Momentarily operate B FL key

[13] Operate all K keys on console to normal

Group A lamp on, then off

Group B lamp on, then off

Group A lamp flashes 60 ipm, then off

Group B lamp flashes 60 ipm, then off

AND

[14] At console, operate K-0 key

[15] Momentarily operate A STA key on power supply

[16] Restore K-0 key on console

[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)

STA 20 MW lamp on

Group A lamp flashes 60 ipm, then off

STA 20 MW lamp off

AND

Test OK

No

TAP-143

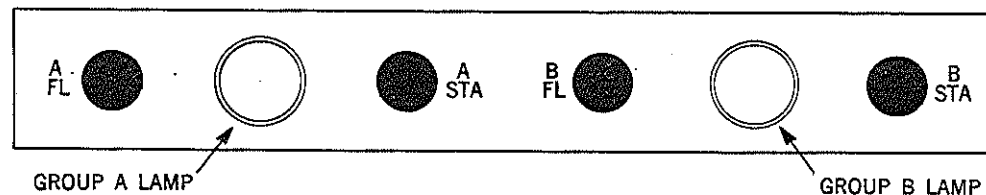


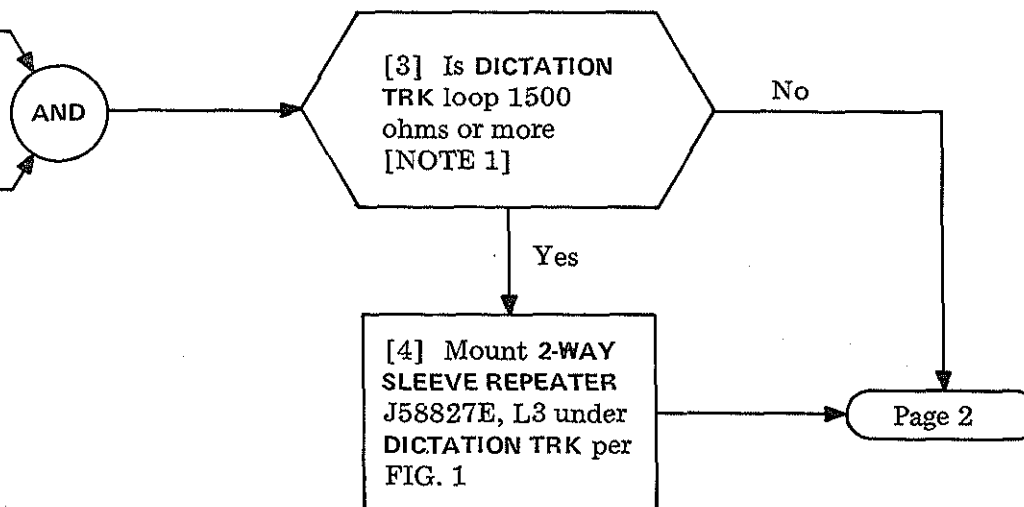
FIG. 2

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)

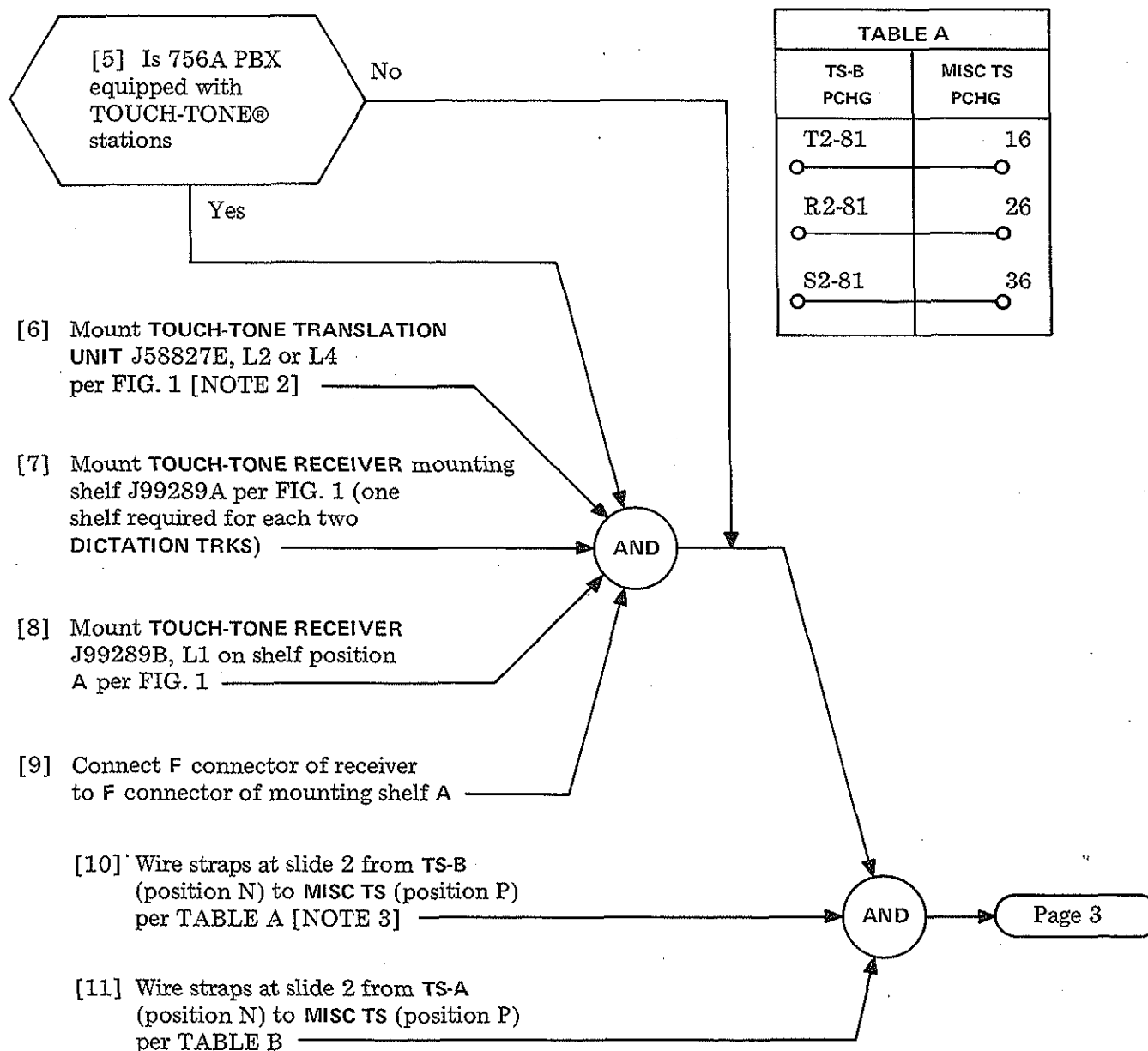


TABLE A	
TS-B PCHG	MISC TS PCHG
T2-81	16
R2-81	26
S2-81	36

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
- 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
 - Universal trunk circuit 81 is being used as the access code for this DICTATION TRK as indicated in TABLE A

[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

AND

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

TABLE D *								
CROSS-CONNECT TERMINAL				LEAD	COLOR	DICTATION TRUNK		
PREWIRED		WALL-MTD				TS(A)	(B)	(D)
G-W BINDER - CONNECTING BLOCK D1	TERM	G-W BINDER - CONNECTING BLOCK A4	TERM					
	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 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

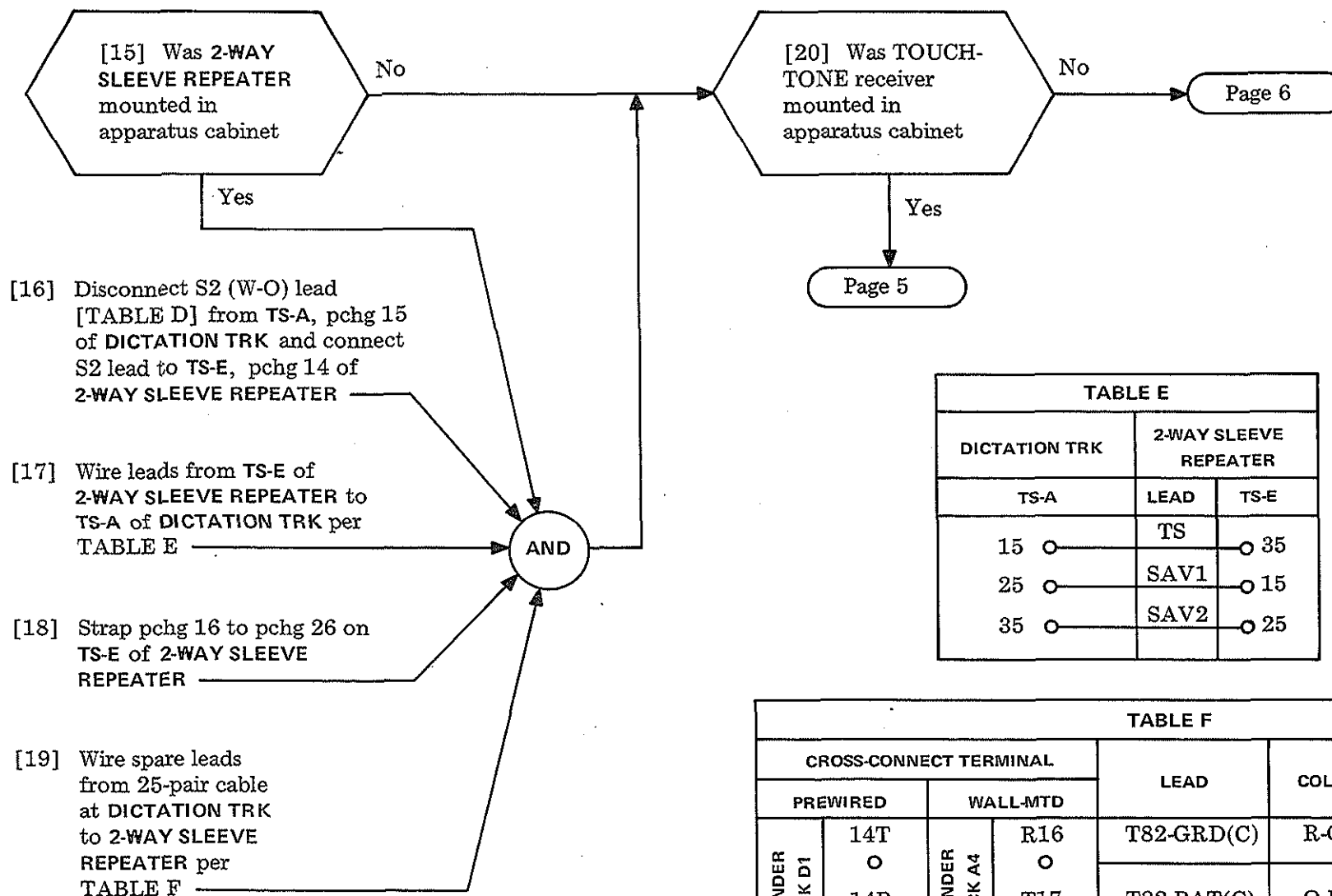


TABLE E		
DICTATION TRK	2-WAY SLEEVE REPEATER	
TS-A	LEAD	TS-E
15 ○	TS	○ 35
25 ○	SAV1	○ 15
35 ○	SAV2	○ 25

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

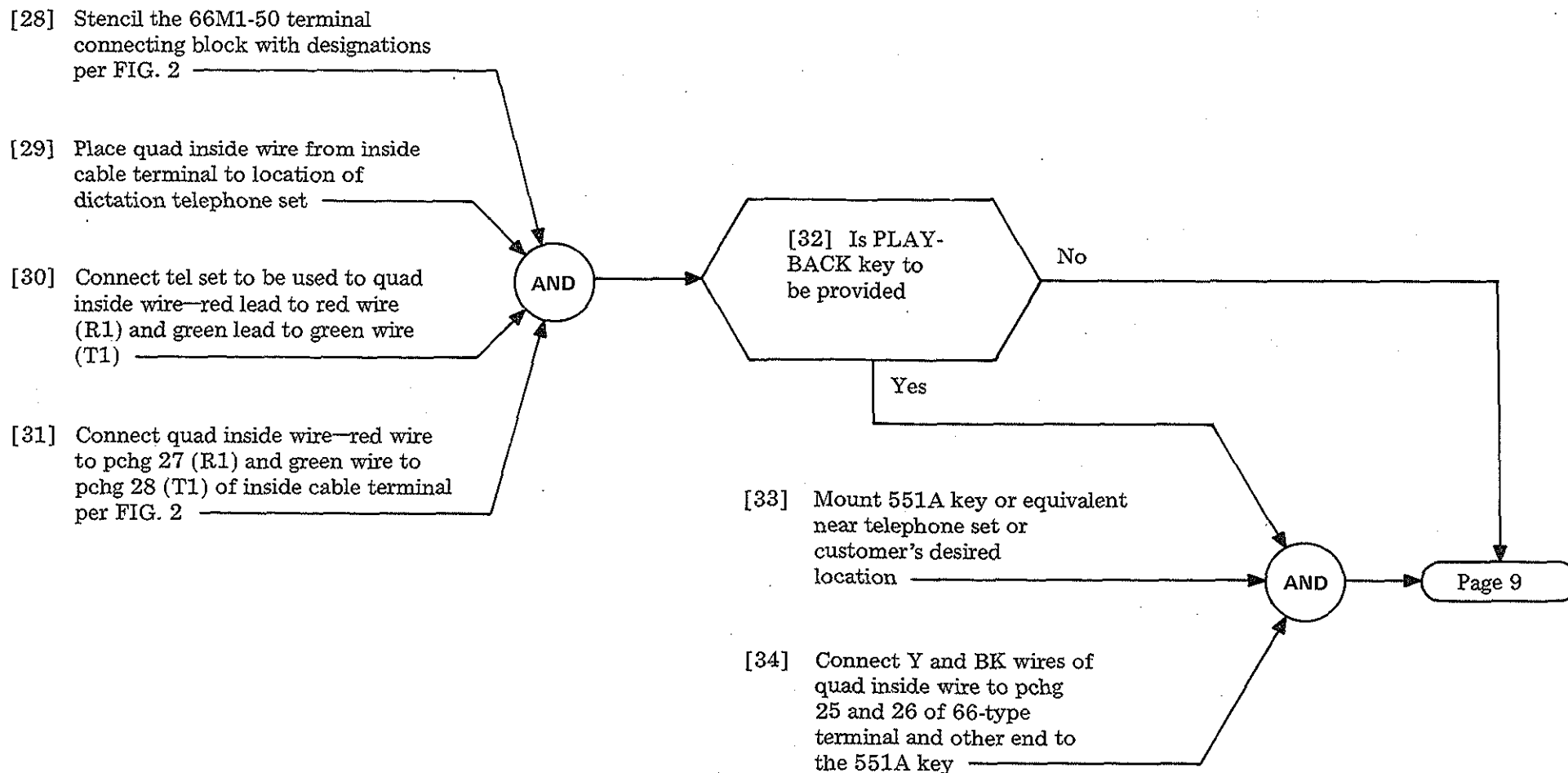
[26] Terminate 25-pair cable on 66M1-50 terminal per TABLE I

[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 TERM. NO.	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	TELCo test line
33	○	CT	BK-O	○ 23	CT	
43	○	CR	O-BK	○ 24	CR	
	○	PB	BK-G	○ 25	PB	
33	○	G2	G-BK	○ 26	G2	Playback key
23	○	R1	BK-BR	○ 27	R1	
18	○	T1	BR-BK	○ 28	T1	Atnd tel set
28	○			○		



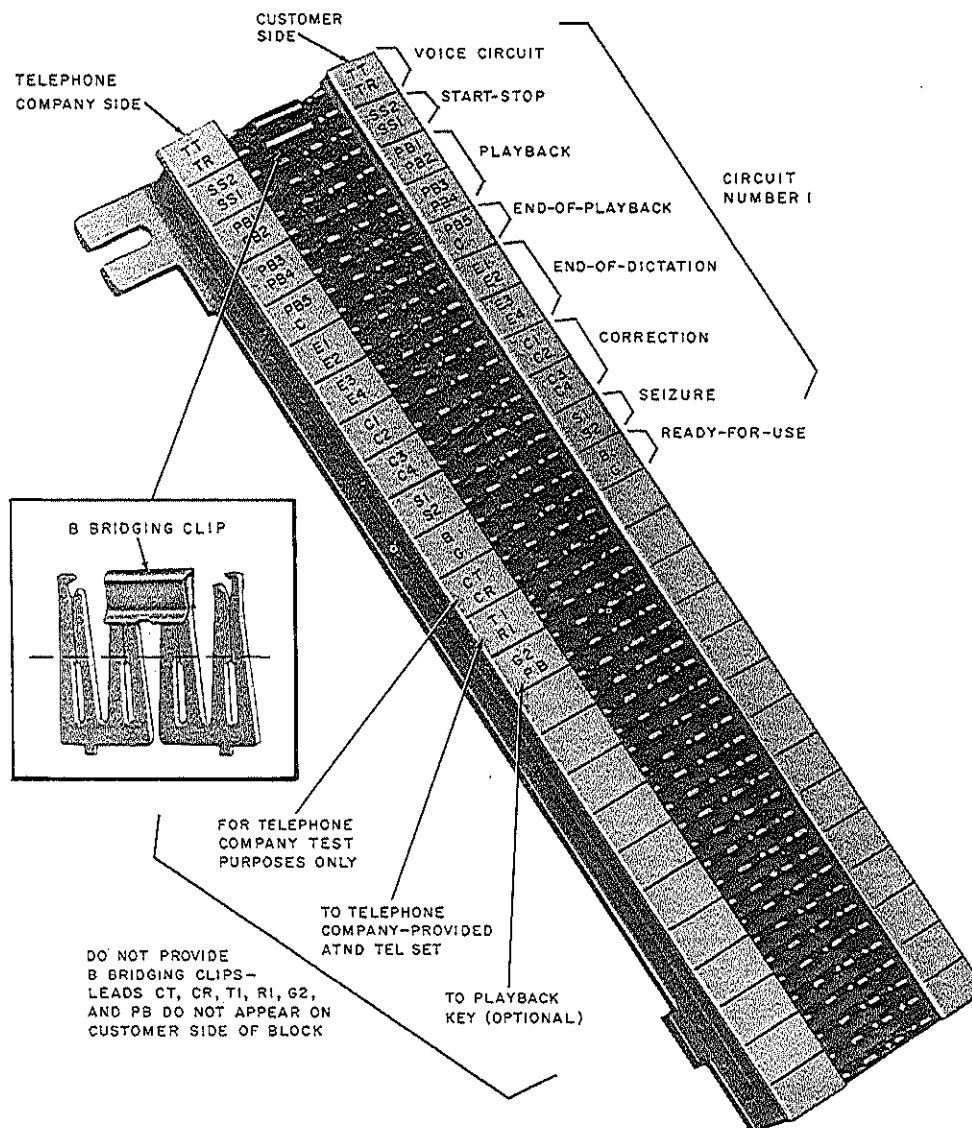
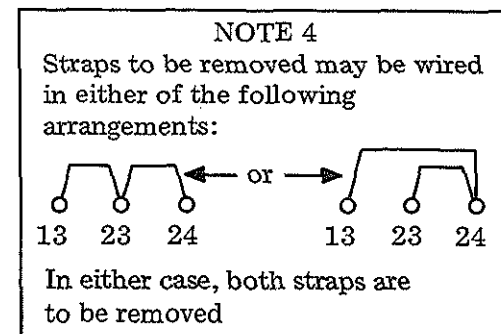
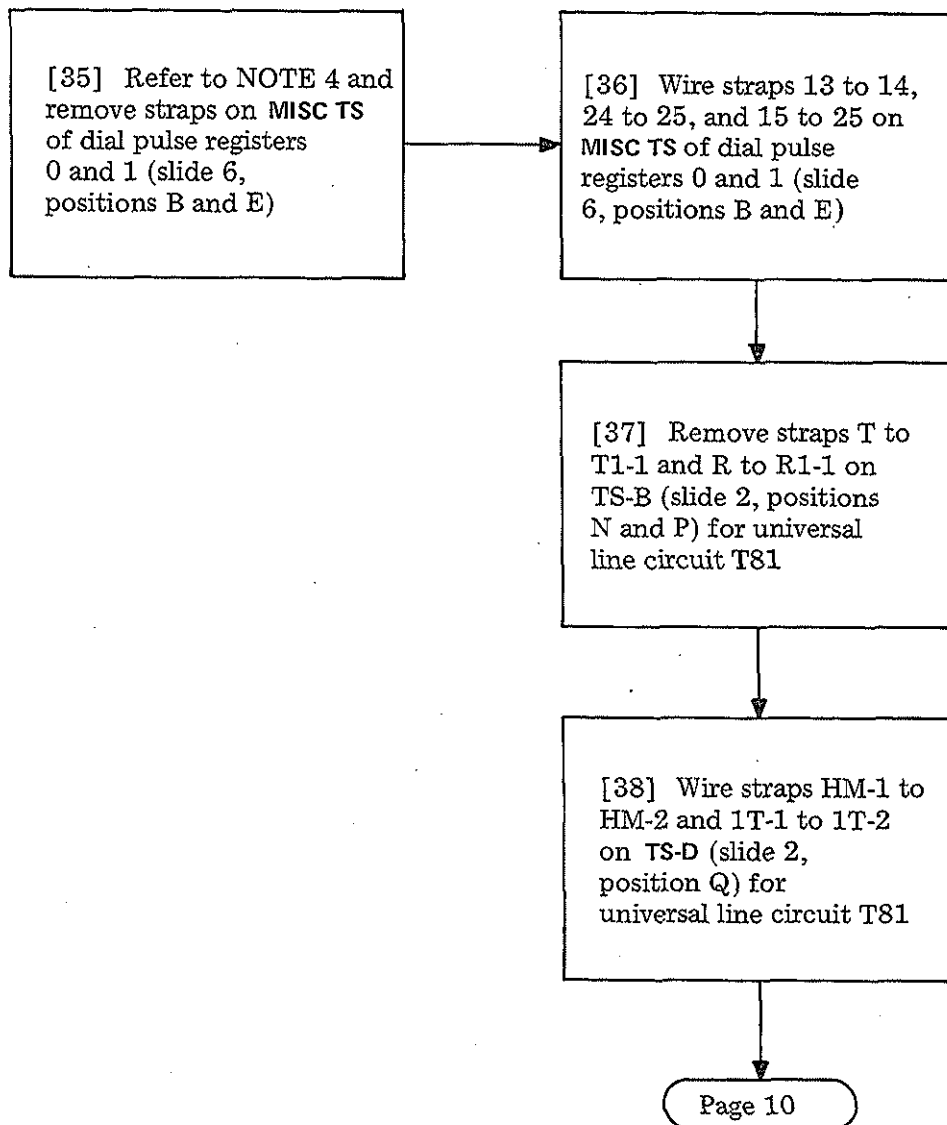


FIG. 2 — Typical Interface Connecting Block

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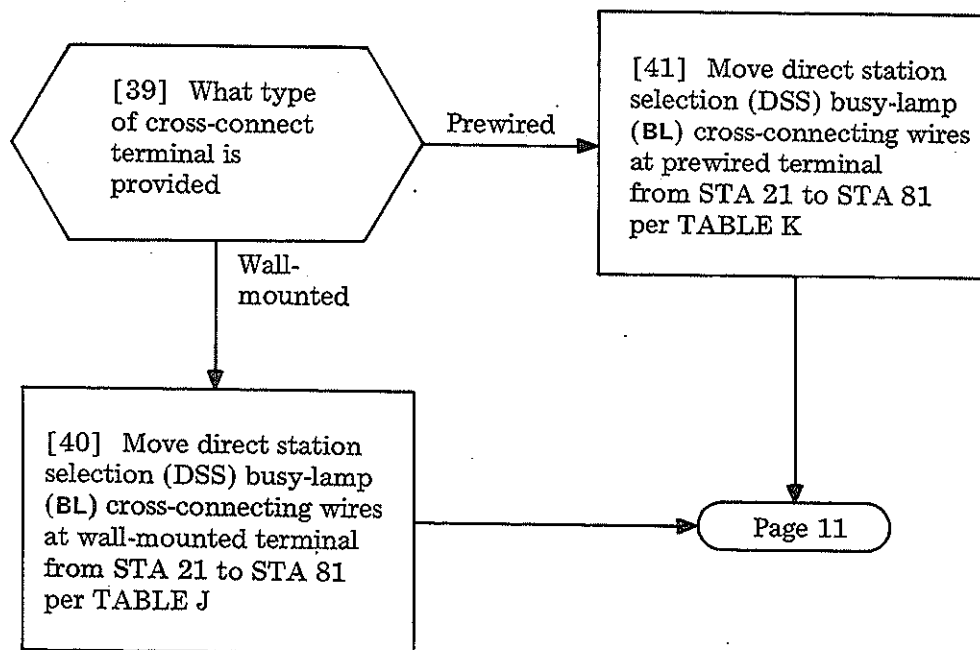


TABLE J							
WALL TERMINAL							
FROM				TO			
G-W BINDER BLOCK A10	COLOR	LEAD	TERM	BR-W BINDER BLOCK B10	COLOR	LEAD	TERM
	Y-BL	BL21	T16		Y-BL	BL81	T21
	BL-Y	BL20	R16		BL-Y	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	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

[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	
46	56	34	44
○	○	○	○
		45	55
		○	○
		35	55
		○	○

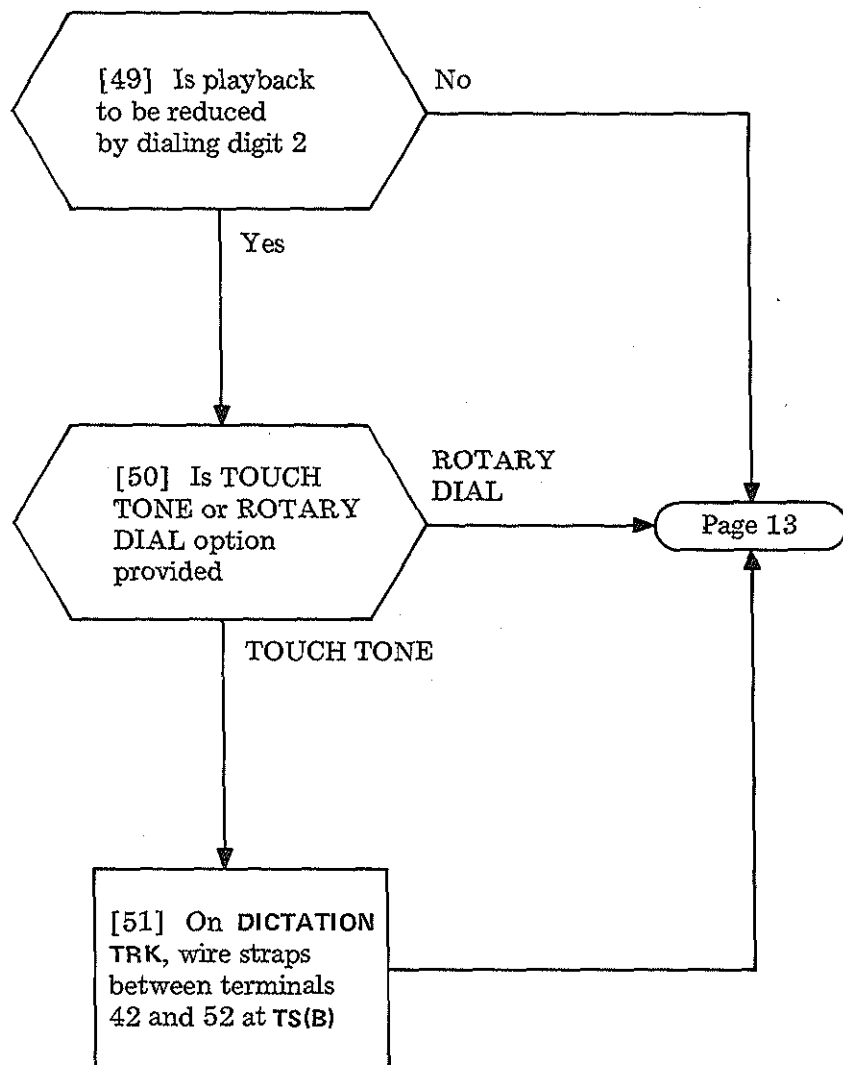


TABLE M			
DICTATION TRUNK J58827E, LIST 1			
TS(A)		TS(B)	
TERMINAL NUMBERS		TERMINAL NUMBERS	
11	21	18	57
		37	47
		17	27
		33	43

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

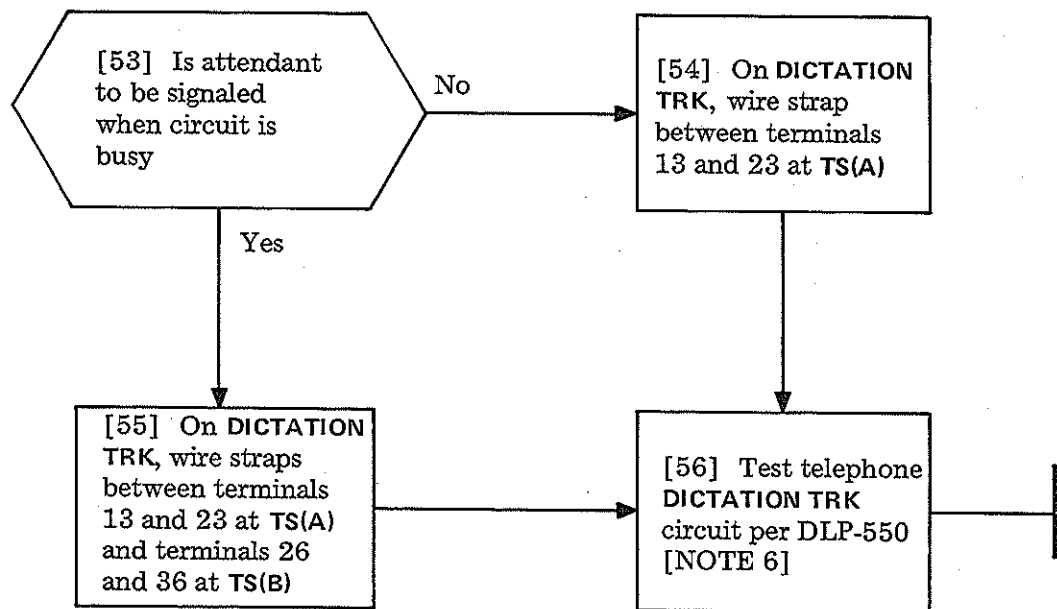
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[52] Refer to
TABLE P and
for the playback
options specified,
wire straps as
required

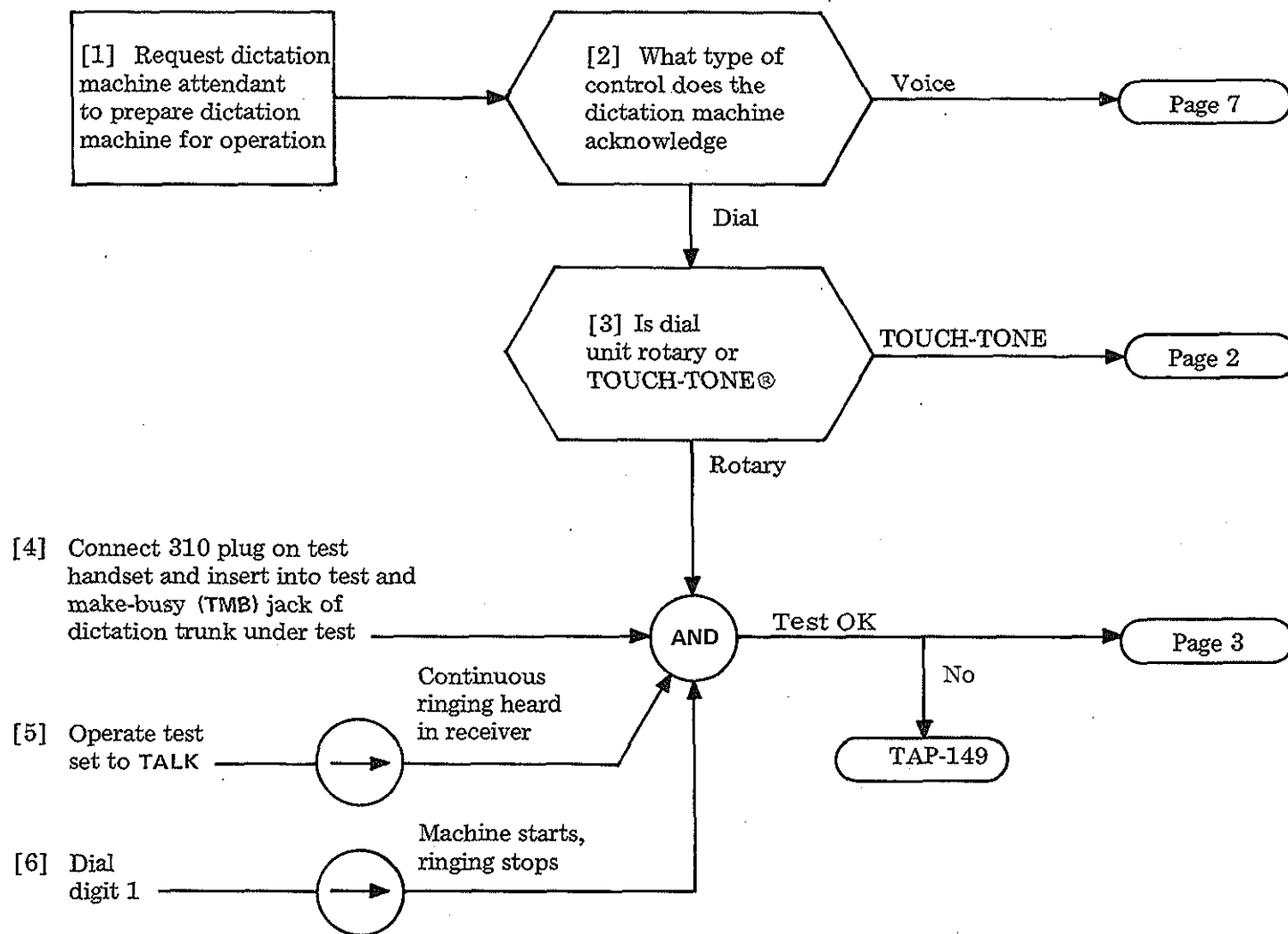
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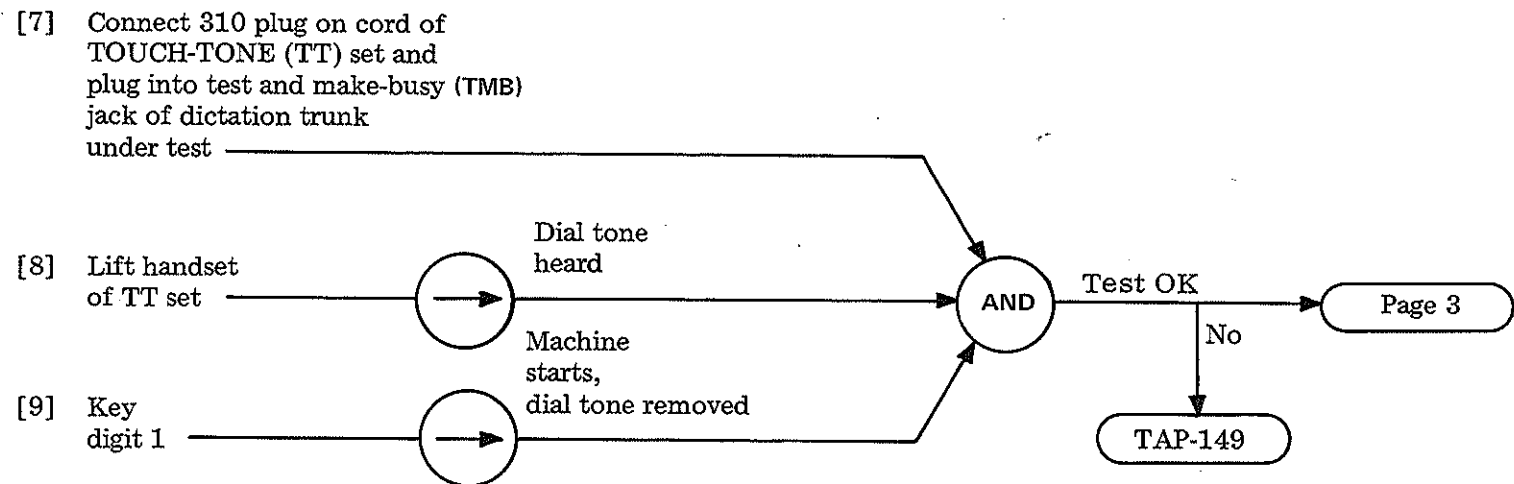
TABLE P
PLAYBACK OPTIONS

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 ○ — ○ 46 56 ○ — ○	
Dial 3 Extends Playback	Yes			
Dial 1 Ends Playback	No			



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





[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

AND

Test OK

No

TAP-149

AND

Test OK

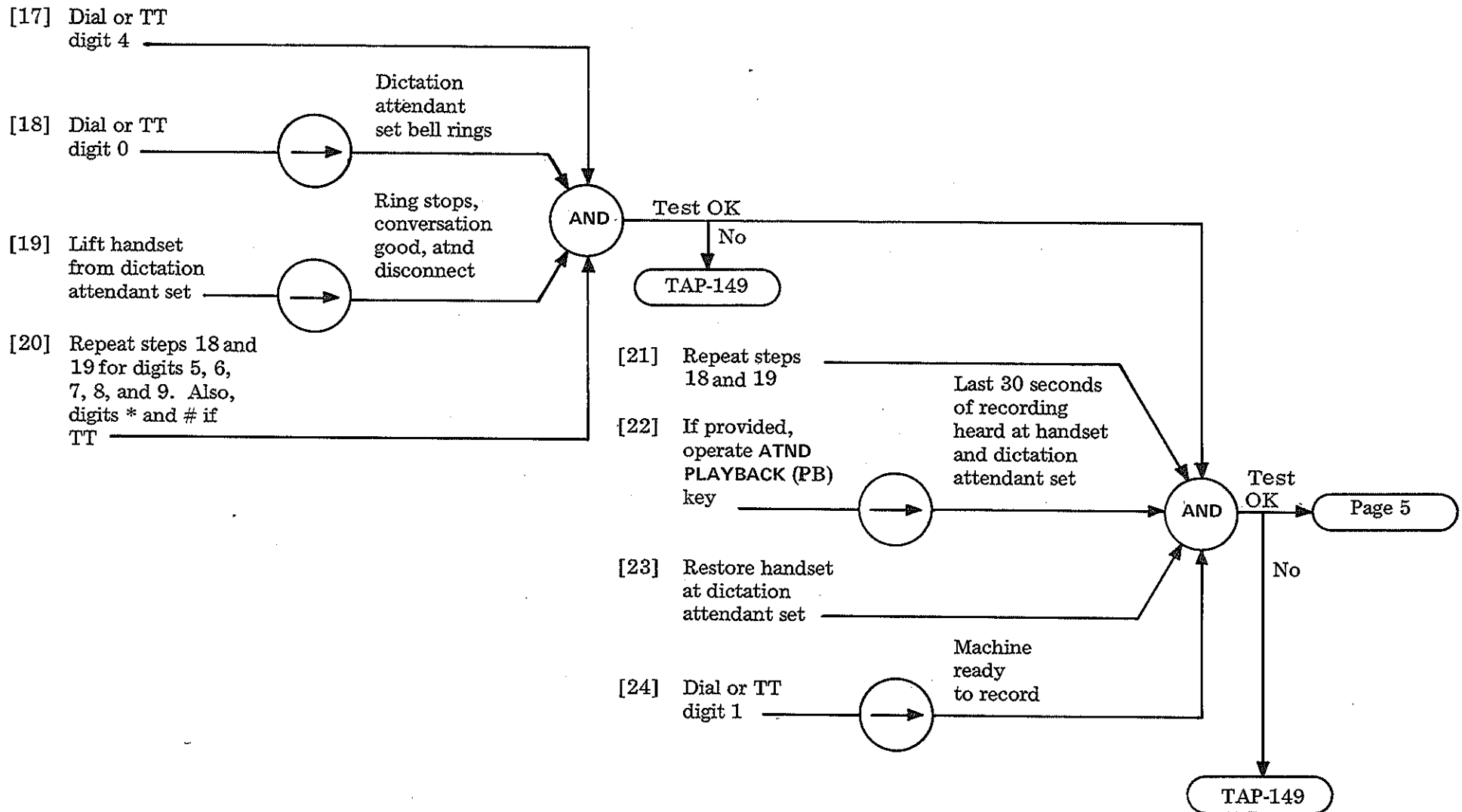
No

TAP-149

Page 4

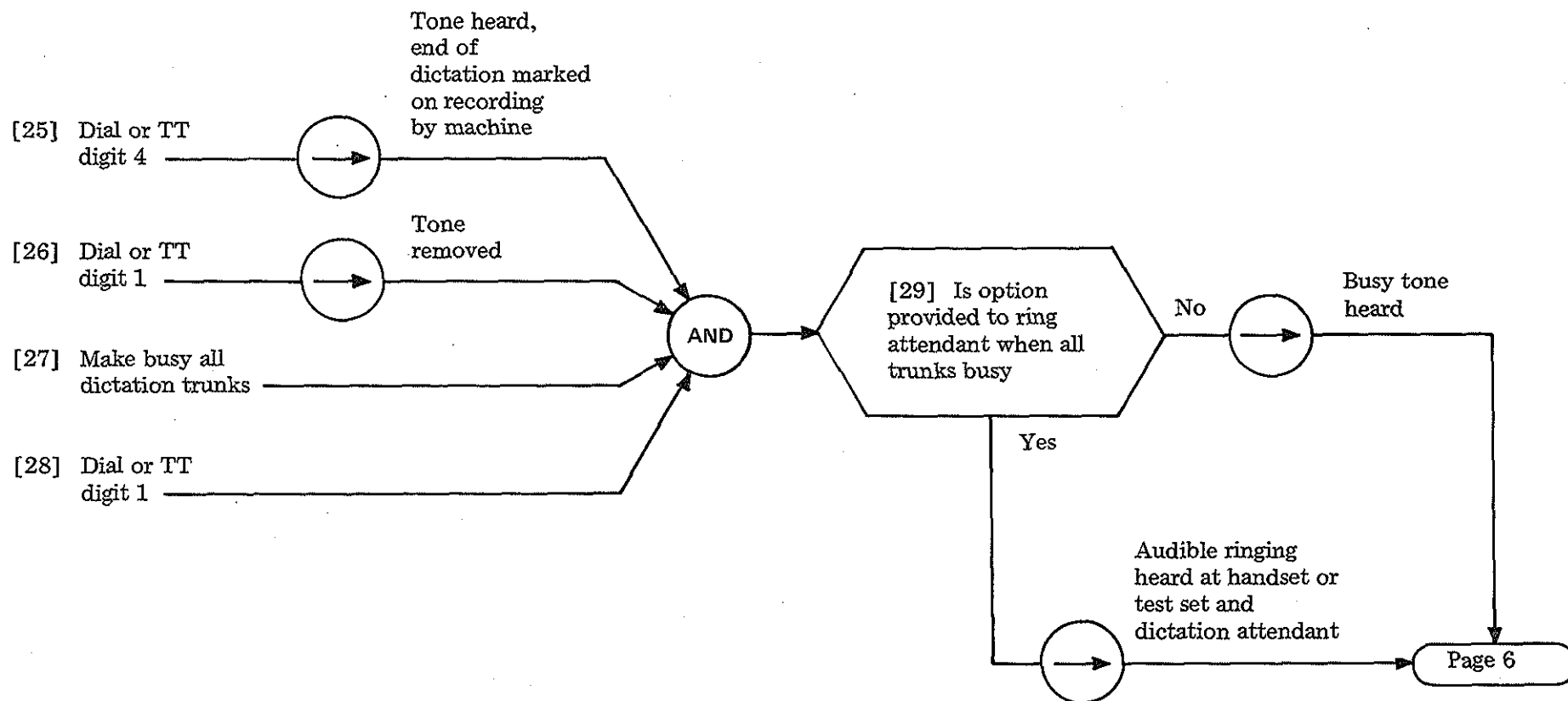
NOTE 1

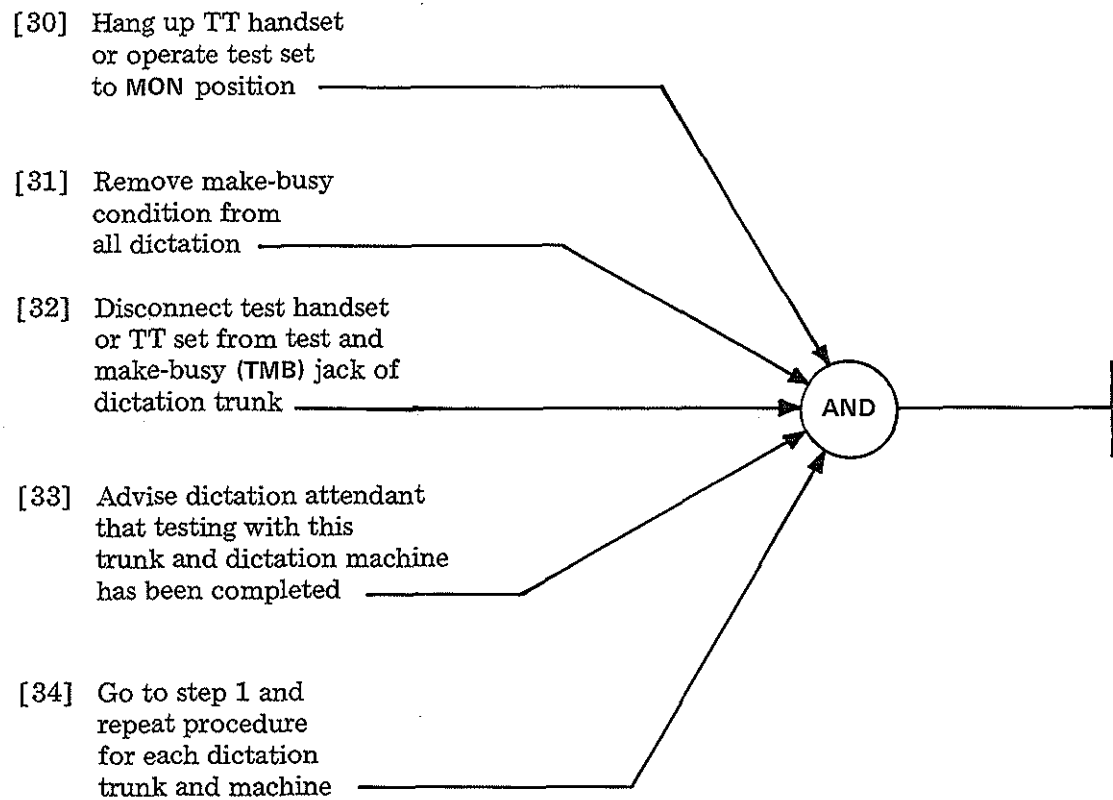
Dialing digit 3, three times, for extended playback may not be provided. If not provided, recorded numbers from about 6 to 10 would only be heard.

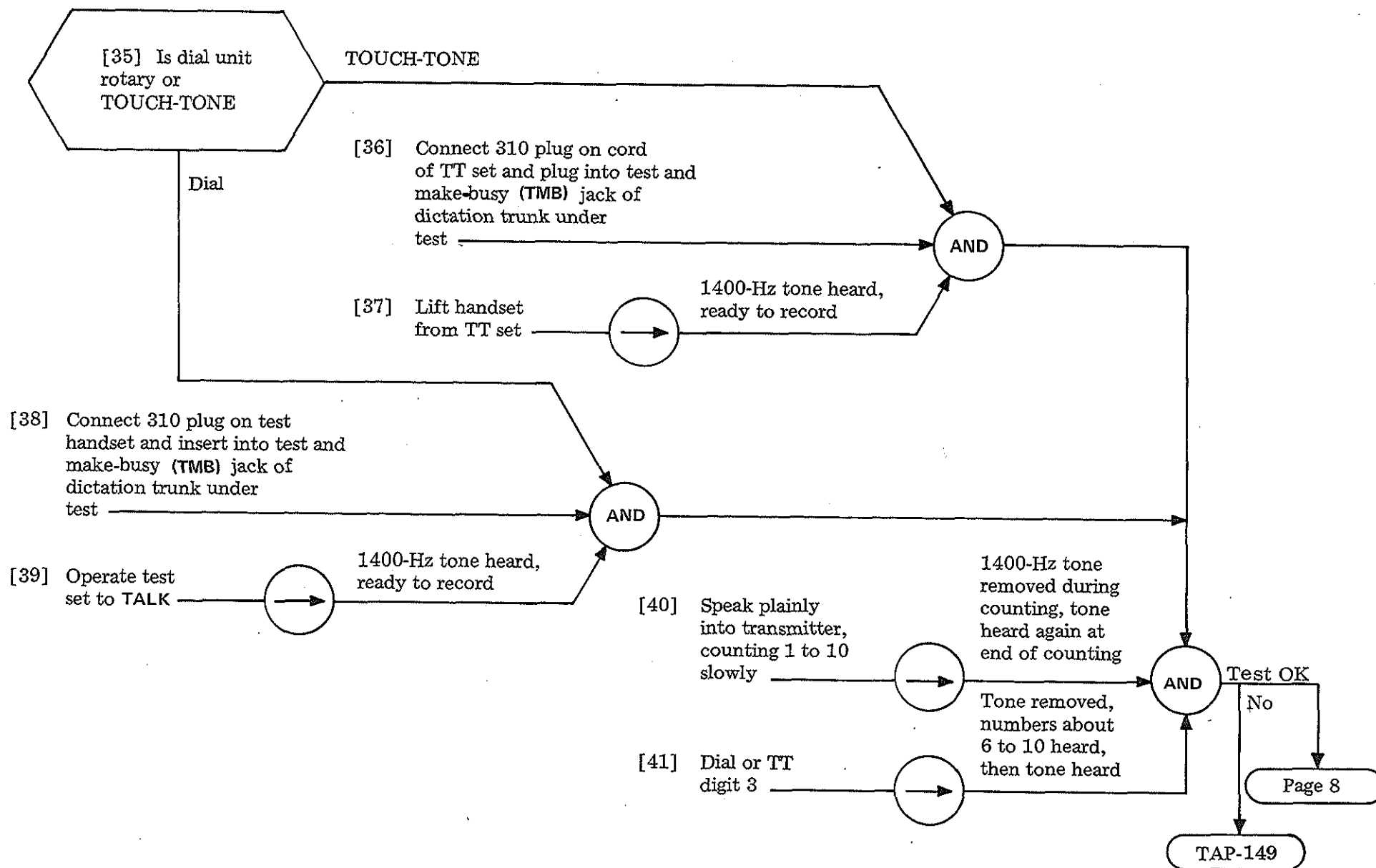


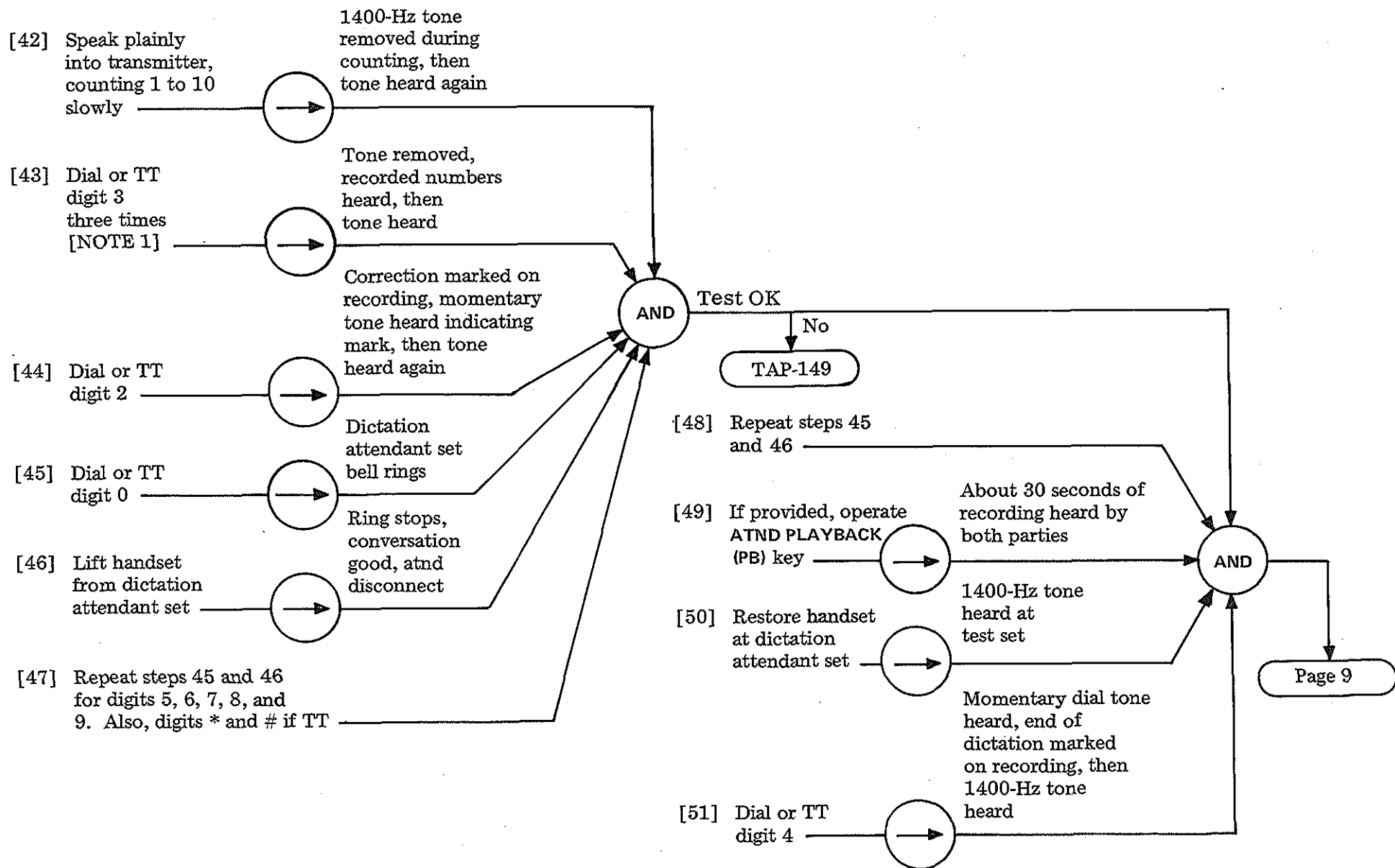
TEST RECORDED TELEPHONE DICTATION FEATURE

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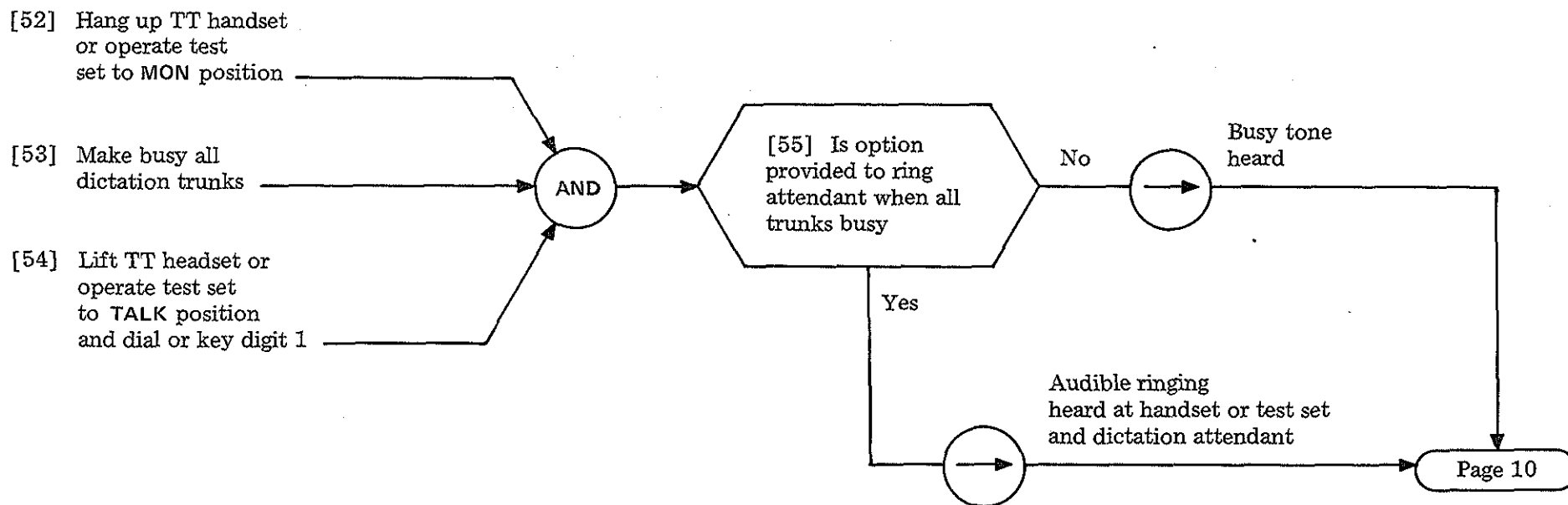


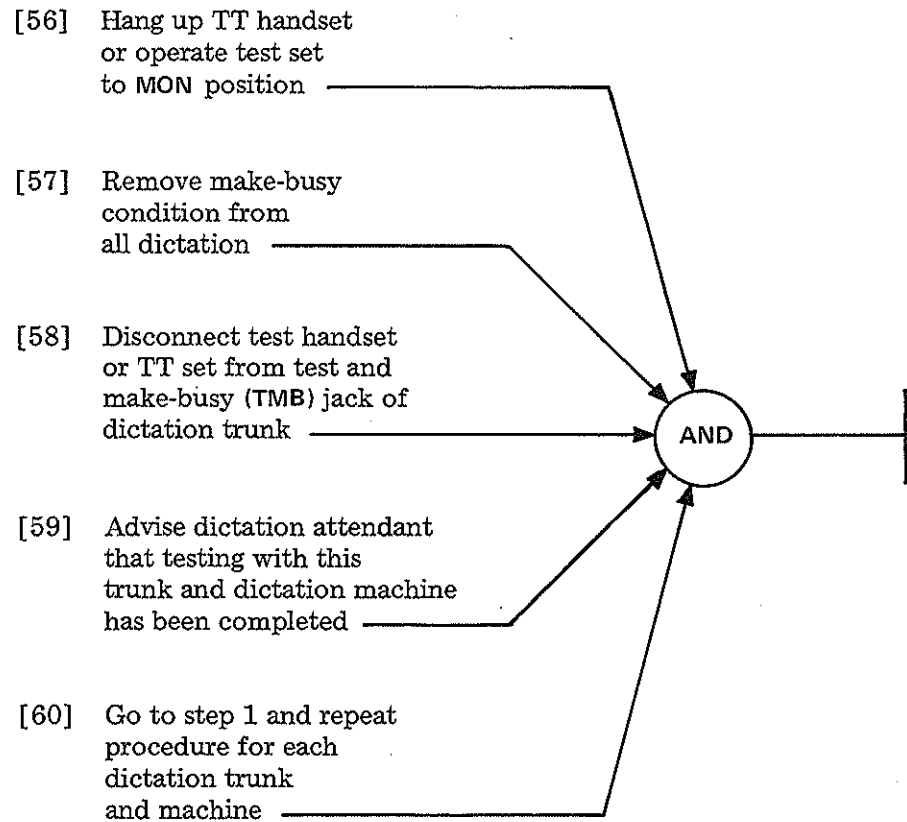




TEST RECORDED TELEPHONE DICTATION FEATURE

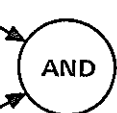
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[1] Unpack and mount ringdown tie trunk (RDTT) unit in slide 5
[NOTE 1 and TABLE A]

[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

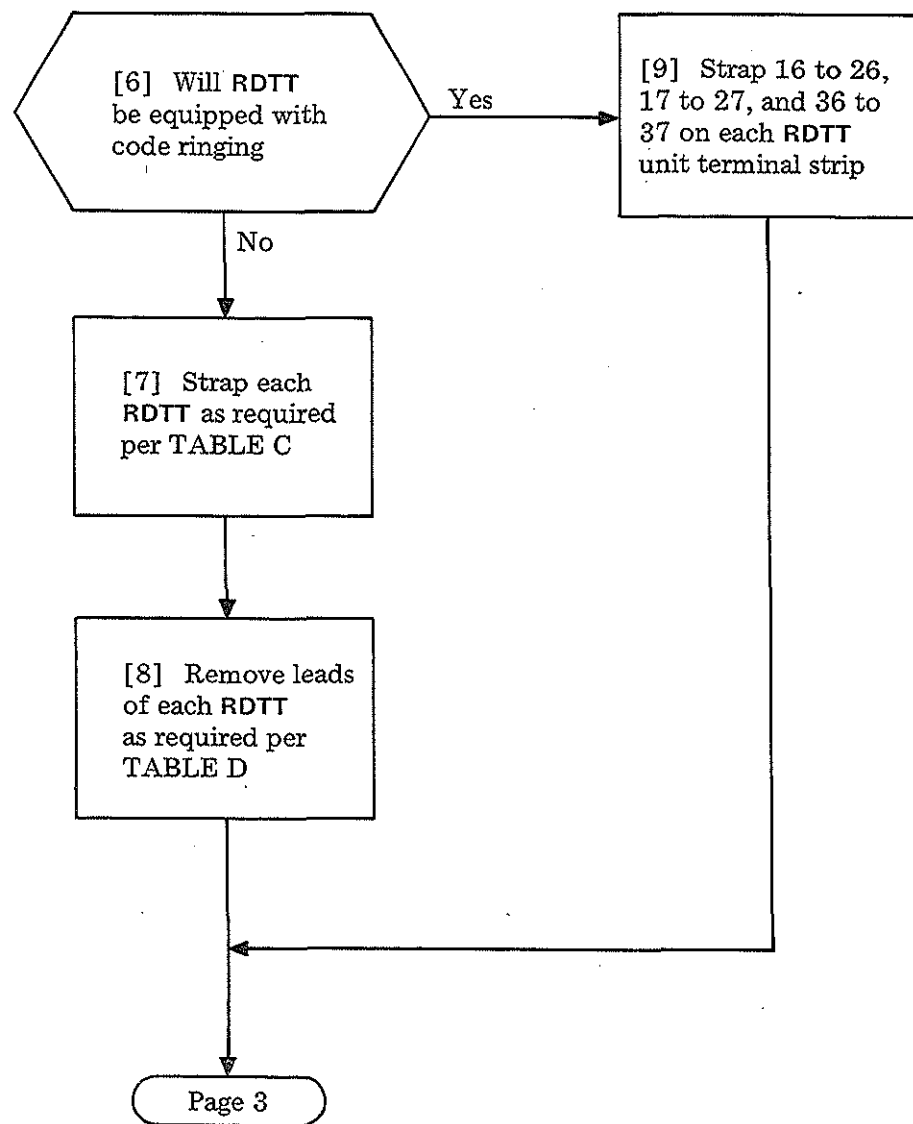
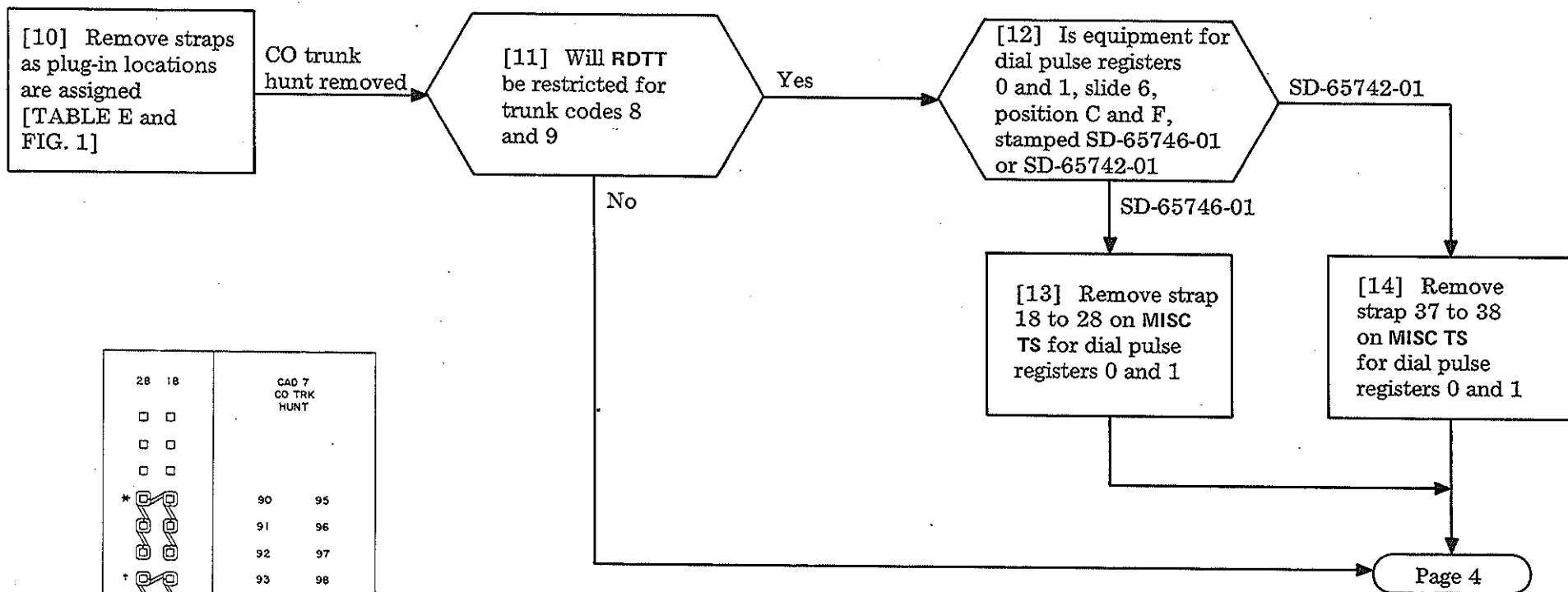


TABLE C STRAPS REQUIRED ON TIE TRUNK TERMINAL STRIP			
Incoming ringing direct, through repeat coil, or through bypassing capacitors	Loop 2000 Ω or more	22 \circ — \circ 32	11 \circ — \circ 21 14 \circ — \circ 24 15 \circ — \circ 25 27 \circ — \circ 37 34 \circ — \circ 35 23 \circ — \circ 33
Incoming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



28 18	CAD 7 CO TRK HUNT
<input type="checkbox"/> <input type="checkbox"/>	
<input type="checkbox"/> <input type="checkbox"/>	
<input type="checkbox"/> <input type="checkbox"/>	
* <input type="checkbox"/> <input type="checkbox"/>	90 95
<input type="checkbox"/> <input type="checkbox"/>	91 96
<input type="checkbox"/> <input type="checkbox"/>	92 97
† <input type="checkbox"/> <input type="checkbox"/>	93 98
<input type="checkbox"/> <input type="checkbox"/>	94 99
21 11	

* 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 <input type="checkbox"/> 28 11 <input type="checkbox"/> 12
8	26 <input type="checkbox"/> 27 12 <input type="checkbox"/> 22
4	17 <input type="checkbox"/> 18 21 <input type="checkbox"/> 22
3	16 <input type="checkbox"/> 17

Trunk
hunting
straps

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

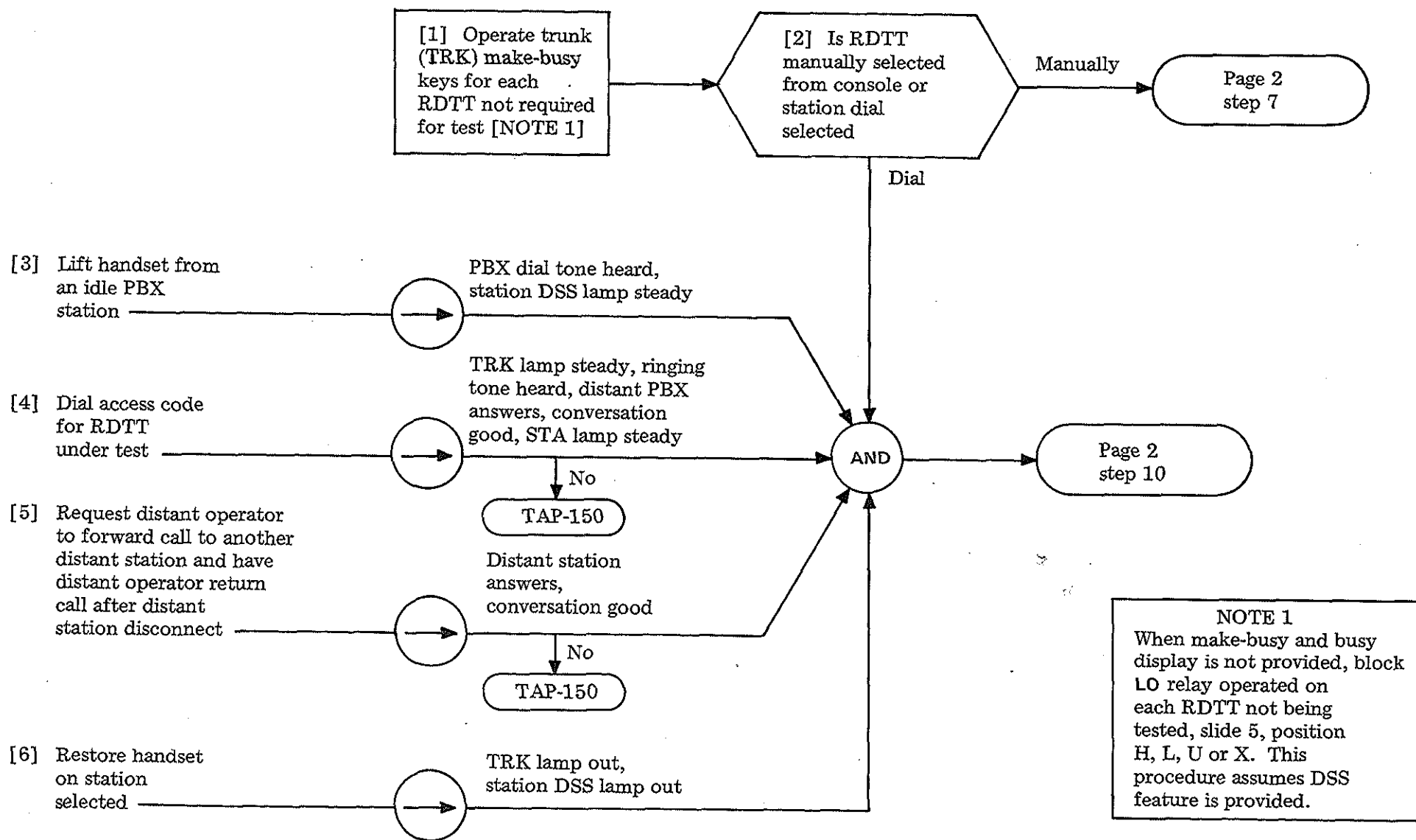
[16] Test tie trunks per DLP-552. See NOTE 3

NOTE 3

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

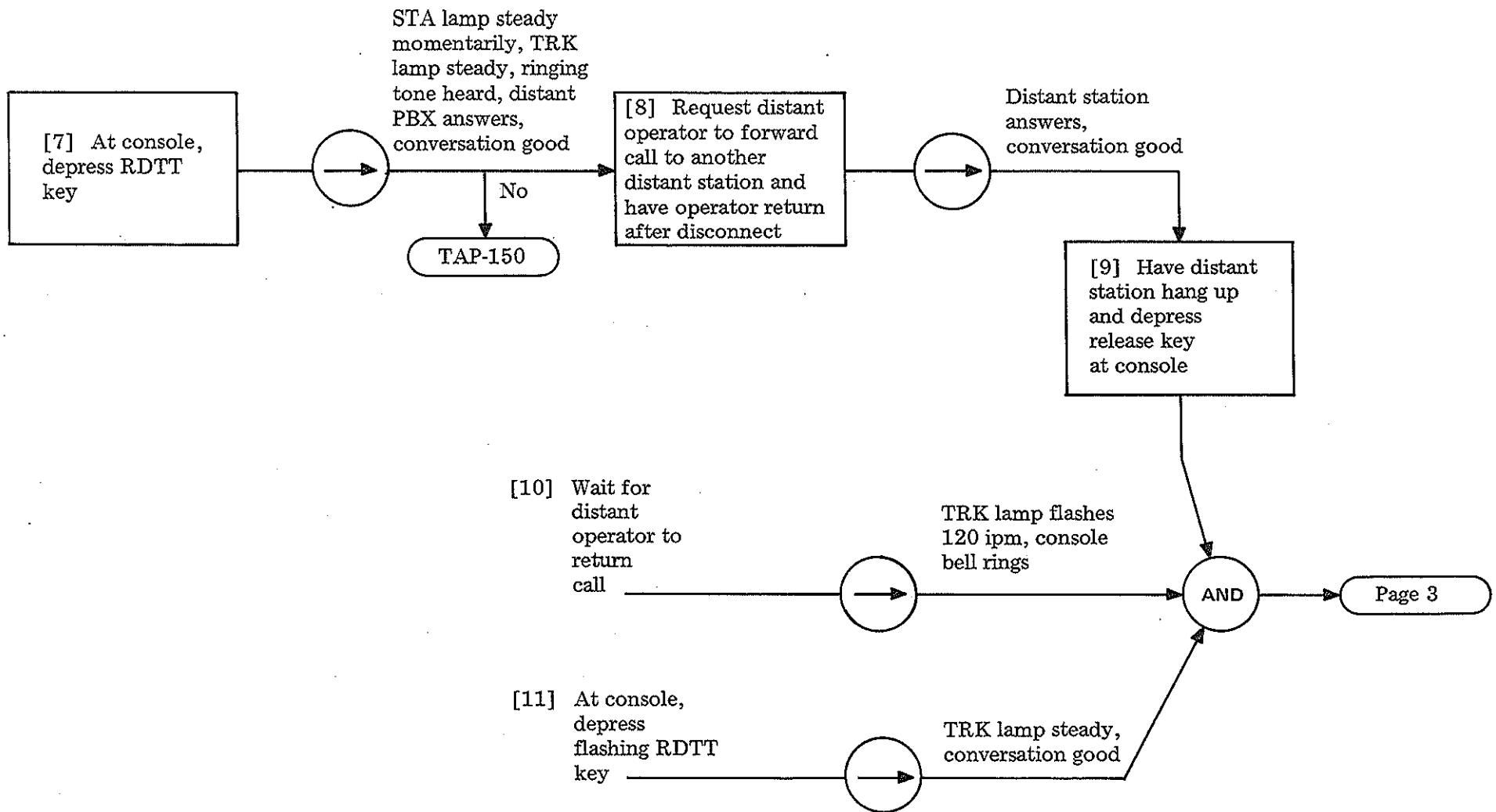
TABLE F

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



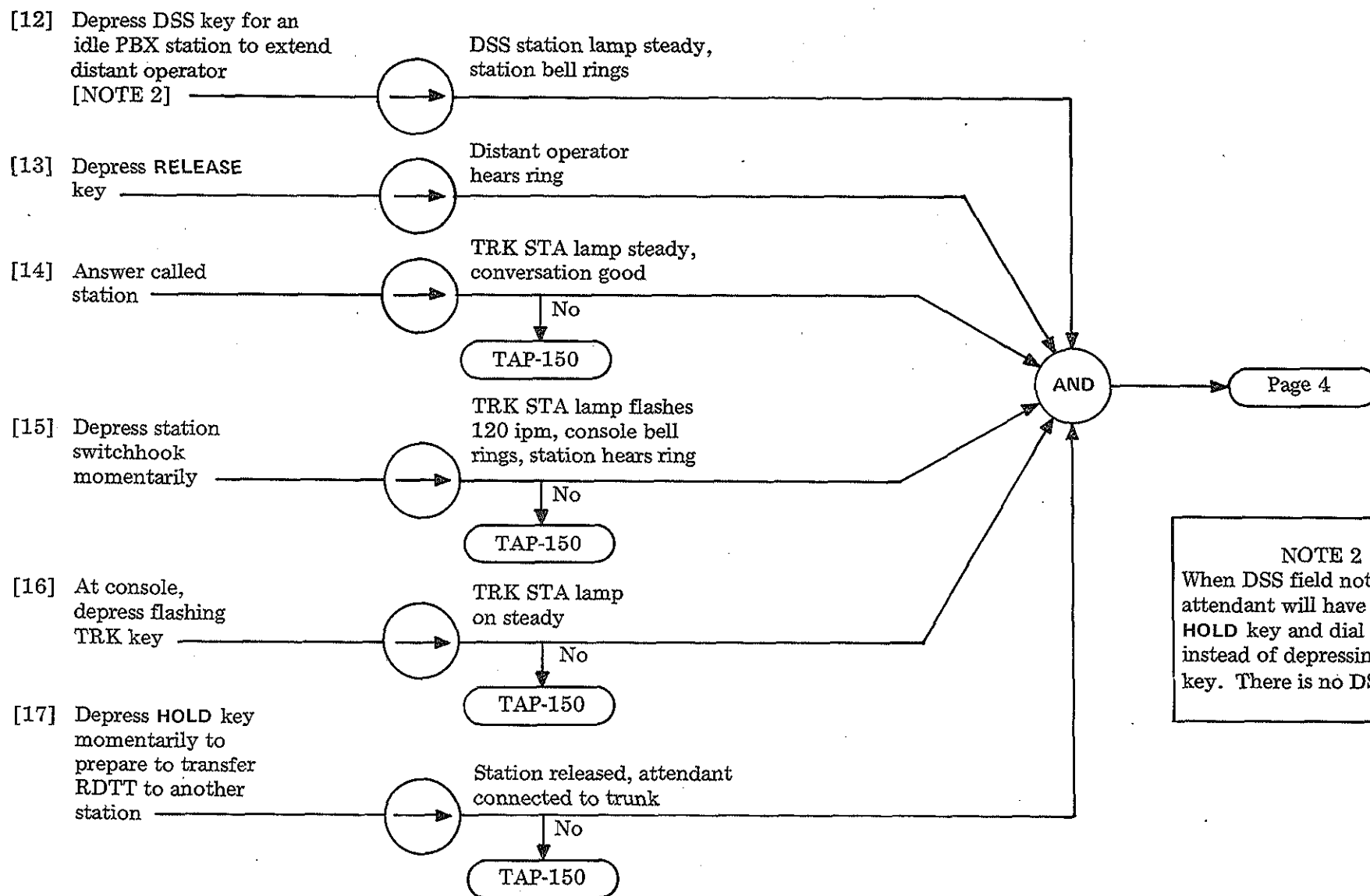
TEST RINGDOWN TIE TRUNKS (RDTT)

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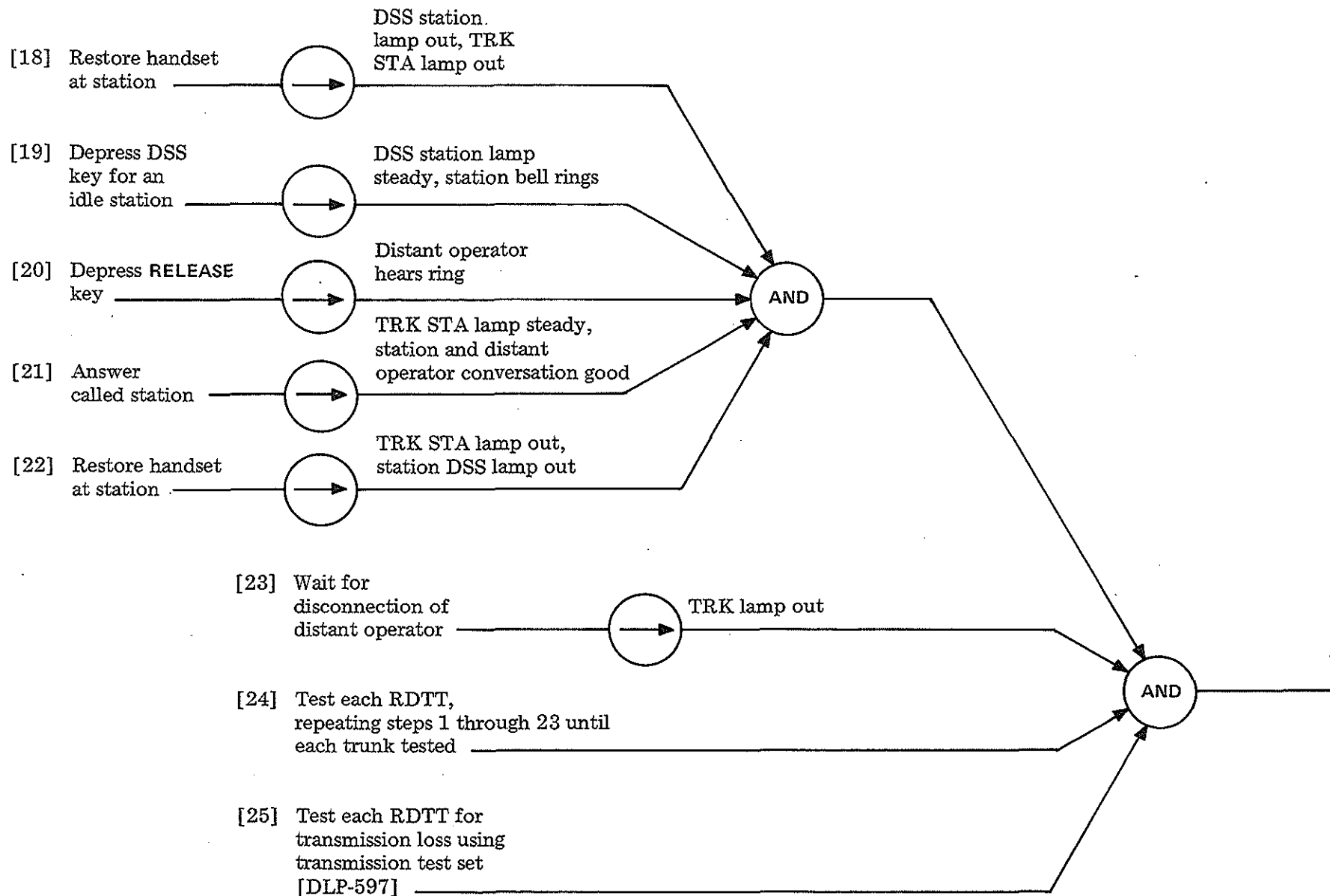


TEST RINGDOWN TIE TRUNKS (RDTT)

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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 (RD TT)

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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

Page 3

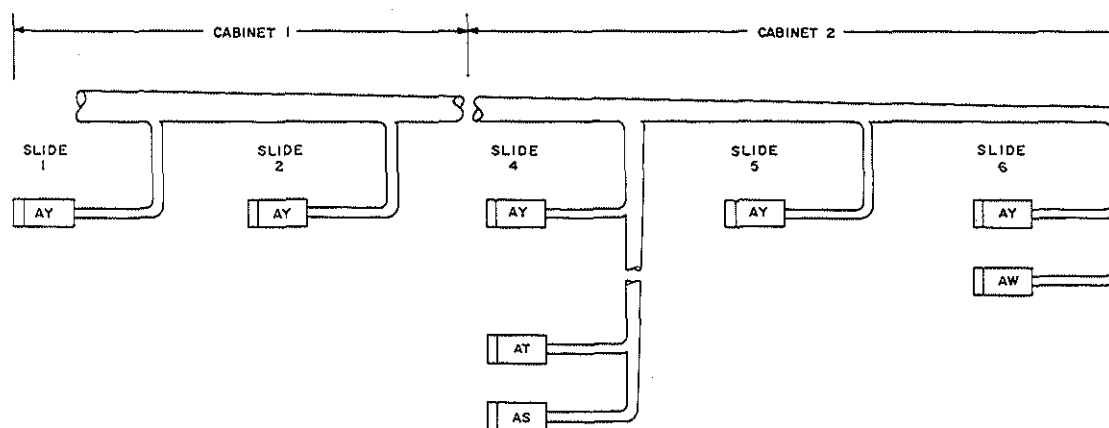


FIG. 1

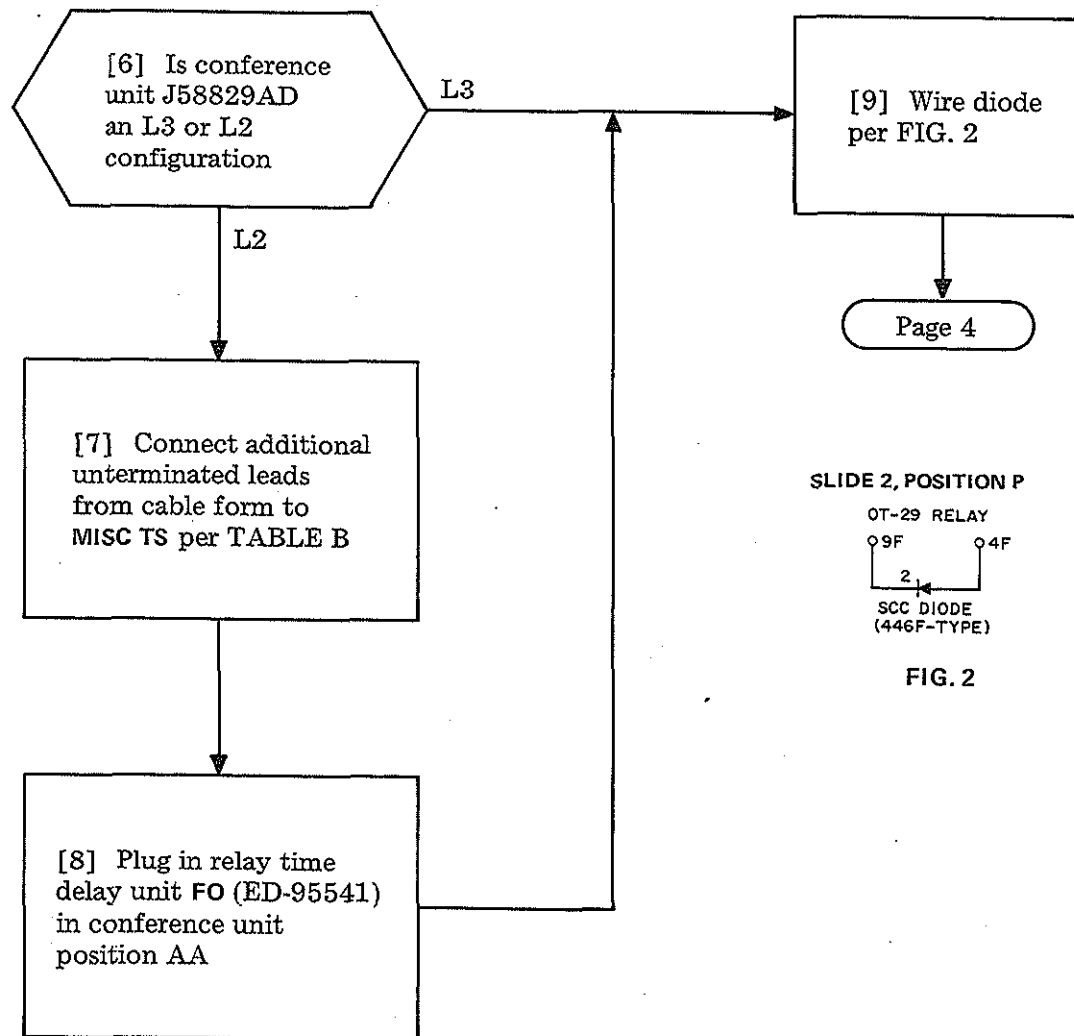
TABLE A										
PLUG P1 SLIDE 2 POS X	LEAD COLOR	LEAD DESIG	APPARATUS IN TIE TRK ADAPTER ON SLIDE 2						LEAD COLOR	CONN AY2 (IN CROWN)
			MISC TS POS P	TS-A POS P	TRK TS-B POS P	TS-D POS Q	TRK B & REL POS L	OT REL POS P		
3 ←	BR	R1	56							
4 ←	R-G	BAT-T		BAT-T84					W	
16 ←	R-BL-W	GRD-T		GRD-T84					R-S	4
17 ←	BR-W	RG	58							15
25 ←	BL	D8					10M			
26 ←	S-W	HM2				HM2 T89				
						IT-1 T89			BR	ITS C 18
								OT-89		
27 ←	R-S	OTG						4F		
33 ←	G	T1-1			T1-1					
34 ←	G-W	R1-1			R1-1					
35 ←	R-O	S1			S1					
36 ←	BK	T1-1			T1-1					
37 ←	BK-W	R1-1			R1-1					
38 ←	R-BR-W	S1			S1					
39 ←	R-G	T1-1			T1-1					
40 ←	R-S	R1-1			R1-1					
41 ←	R-G-W	S1			S1					
42 ←	BL	T1-1			T1-1					
43 ←	BL-W	R1-1			R1-1					
44 ←	R-O-W	S1			S1					
45 ←	O	T1-1			T1-1					
46 ←	O-W	R1-1			R1-1					
47 ←	R-BL-W	S1			S1					
48 ←	BR	T2			T2-T84					
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

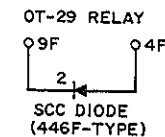
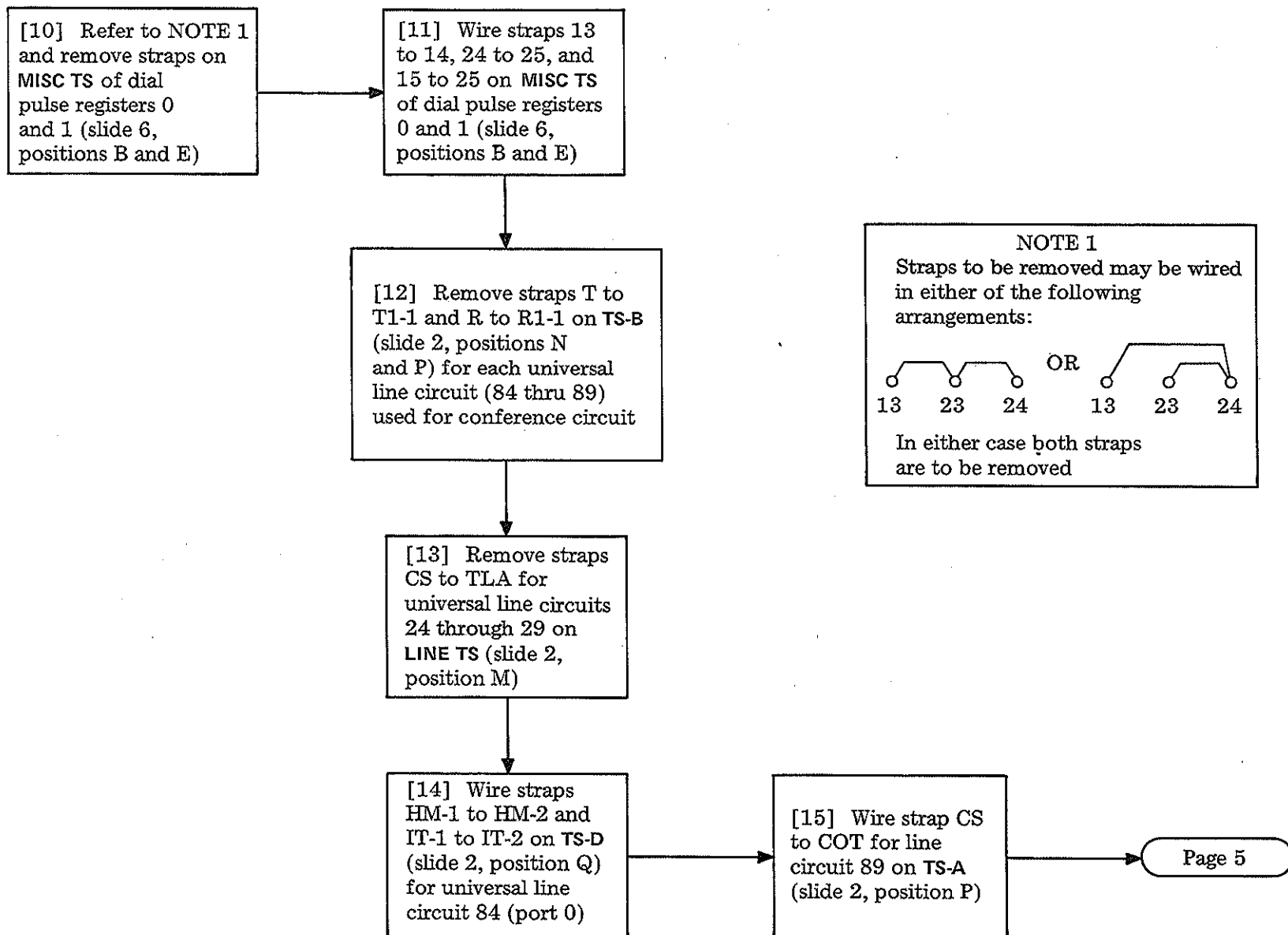


FIG. 2



[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

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

[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

[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

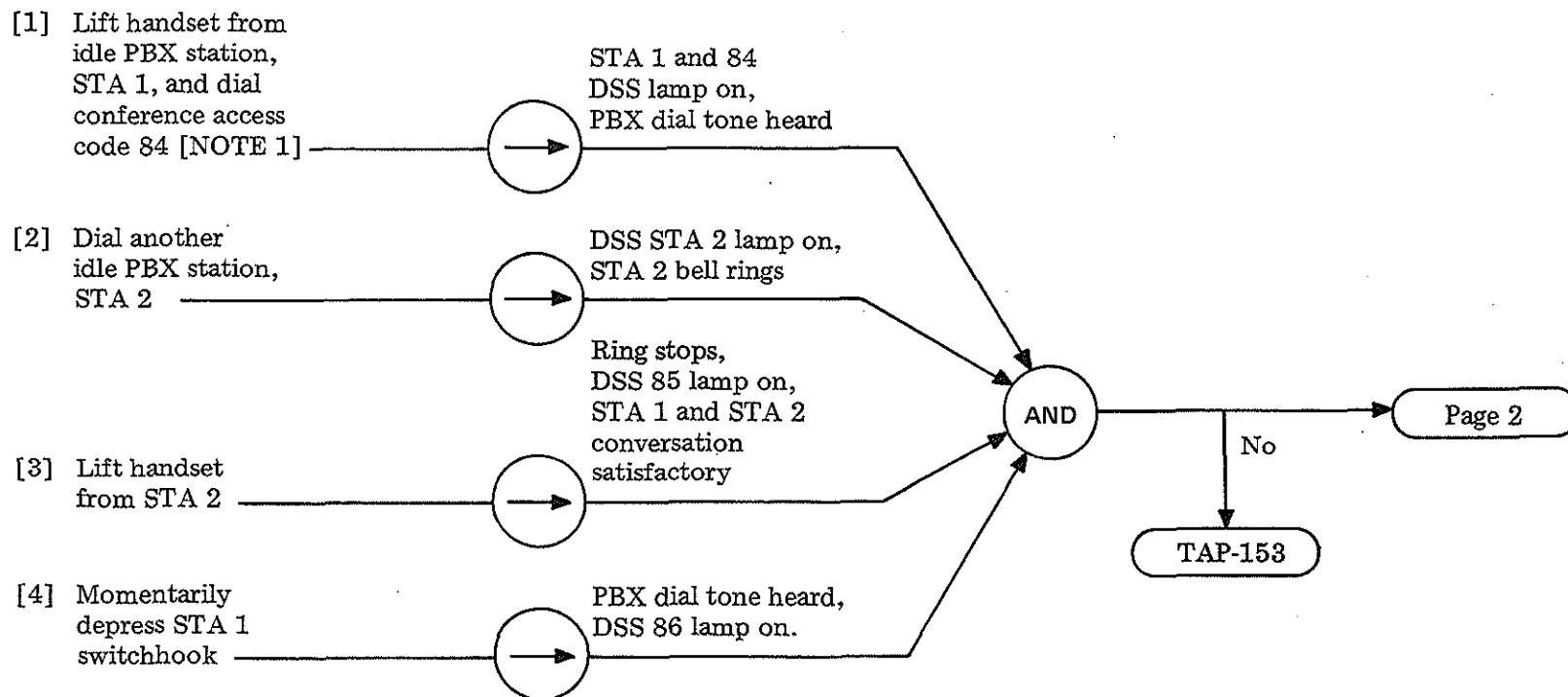
WALL TERMINAL

FROM				TO			
	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 D

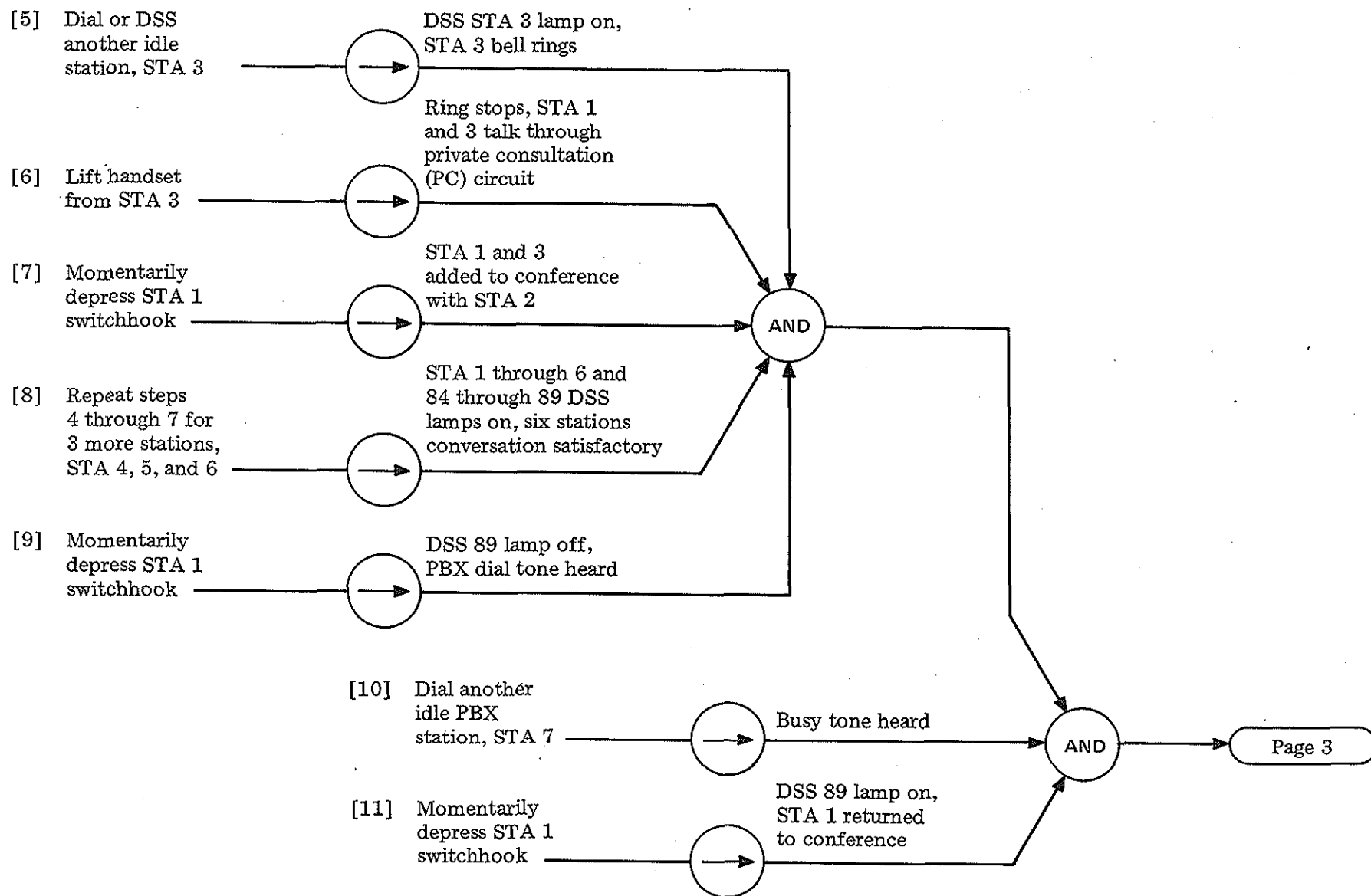
PREWIRED TERMINAL

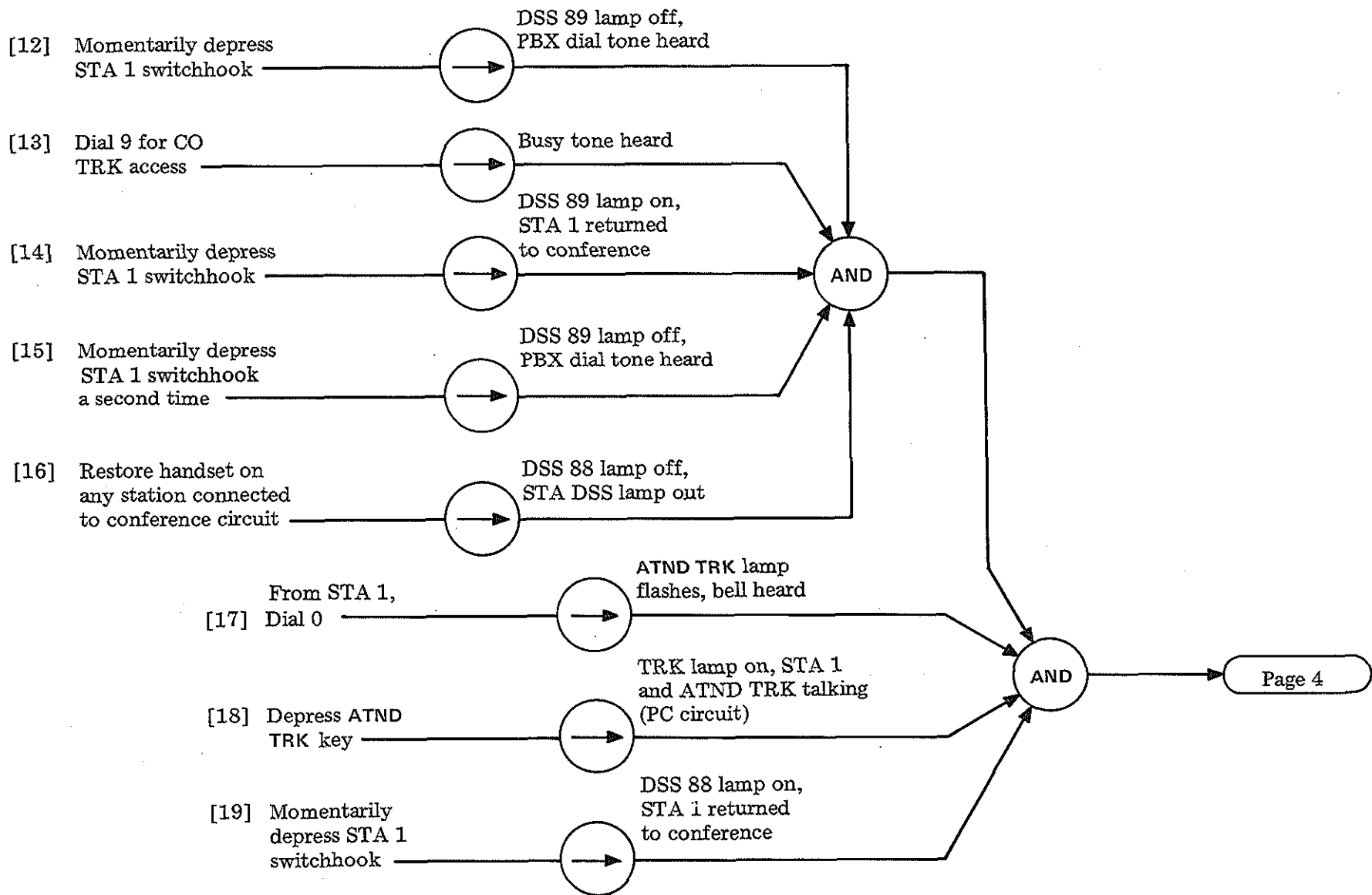
FROM				TO			
	COLOR	LEAD	TERM		COLOR	LEAD	TERM
G-W BINDER BLOCK B5	Y-BL	BL21	T16	BR-W BINDER BLOCK B6	V-BL	BL81	T21
	BL-Y	BL20	R16		BL-V	BL80	R21
	Y-O	BL23	T17		V-O	BL83	T22
	O-Y	BL22	R17		O-V	BL82	R22
	Y-G	BL25	T18		V-G	BL85	T23
	G-Y	BL24	R18		G-V	BL84	R23
	Y-BR	BL27	T19		V-BR	BL87	T24
	BR-Y	BL26	R19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

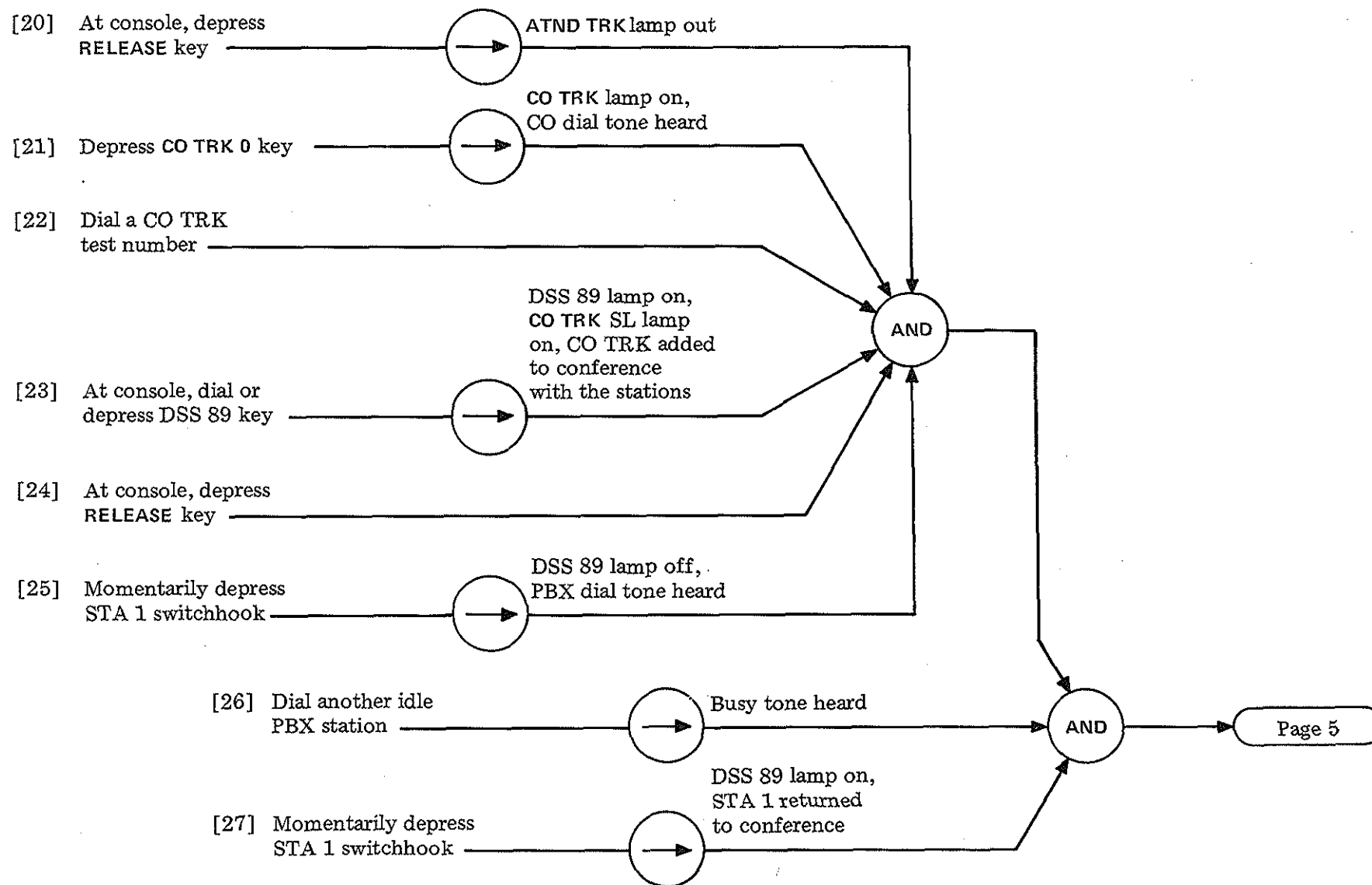


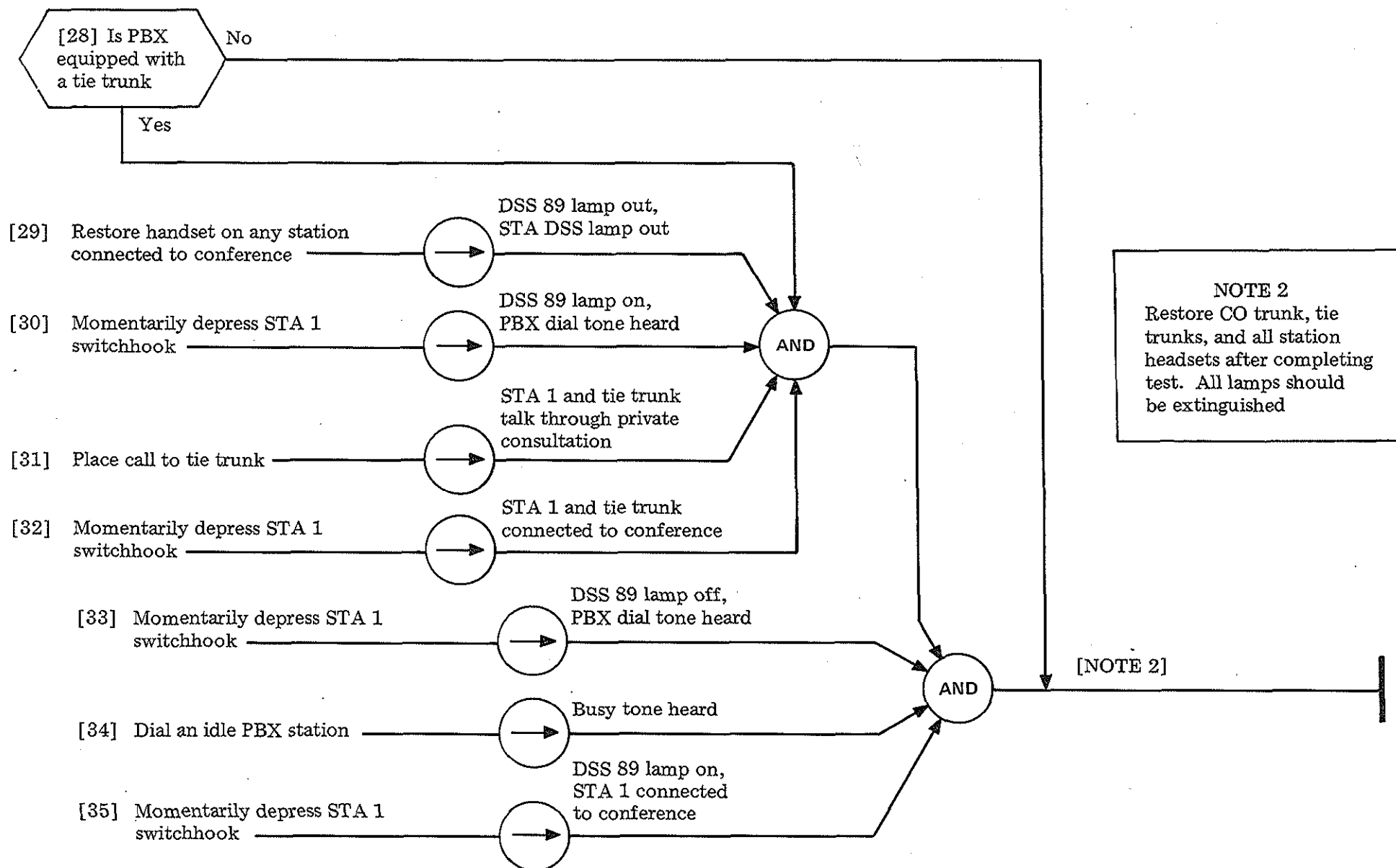
NOTE 1

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









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

AND

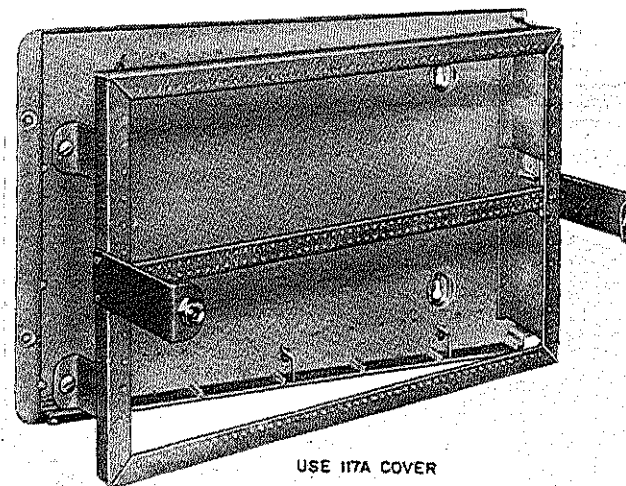
- [4] Place 75-pair connector-ended cable J58829AL, L2 [FIG. 3] from PBX crown to external cabinet

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

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

AND

Page 3



USE 117A COVER

FIG. 1-16C Apparatus Mounting

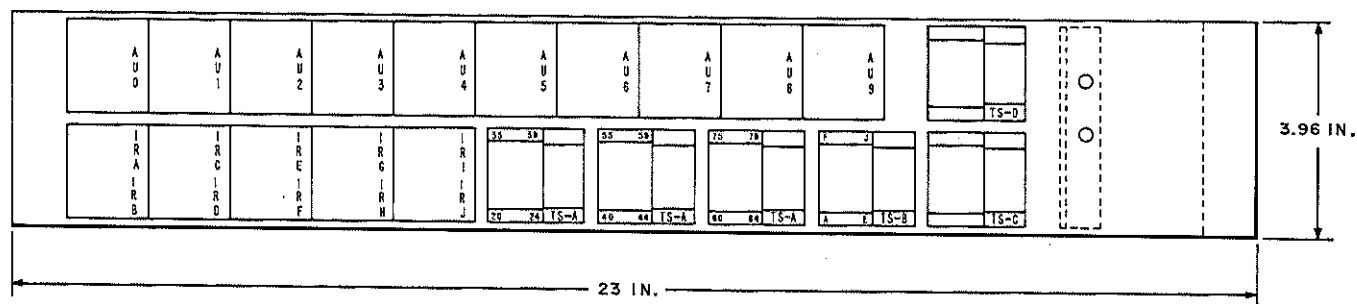


FIG. 2—Inward Restriction Unit—J58829AL, List 1

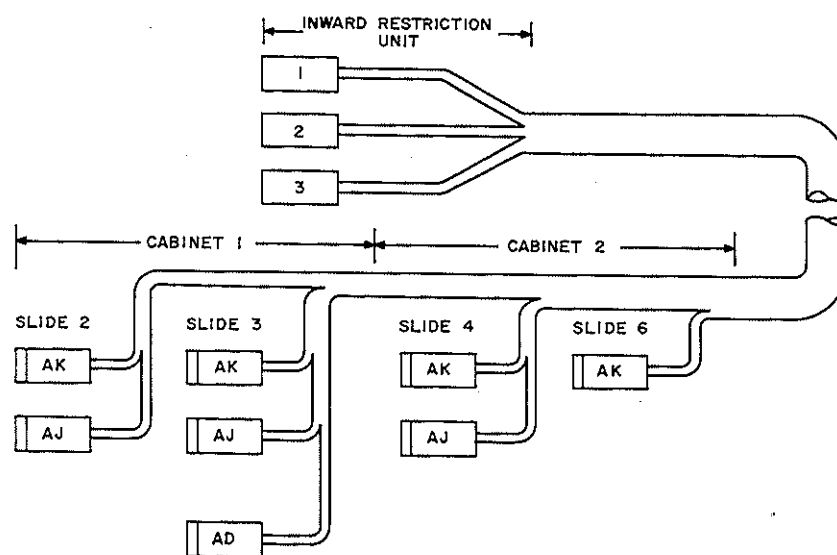
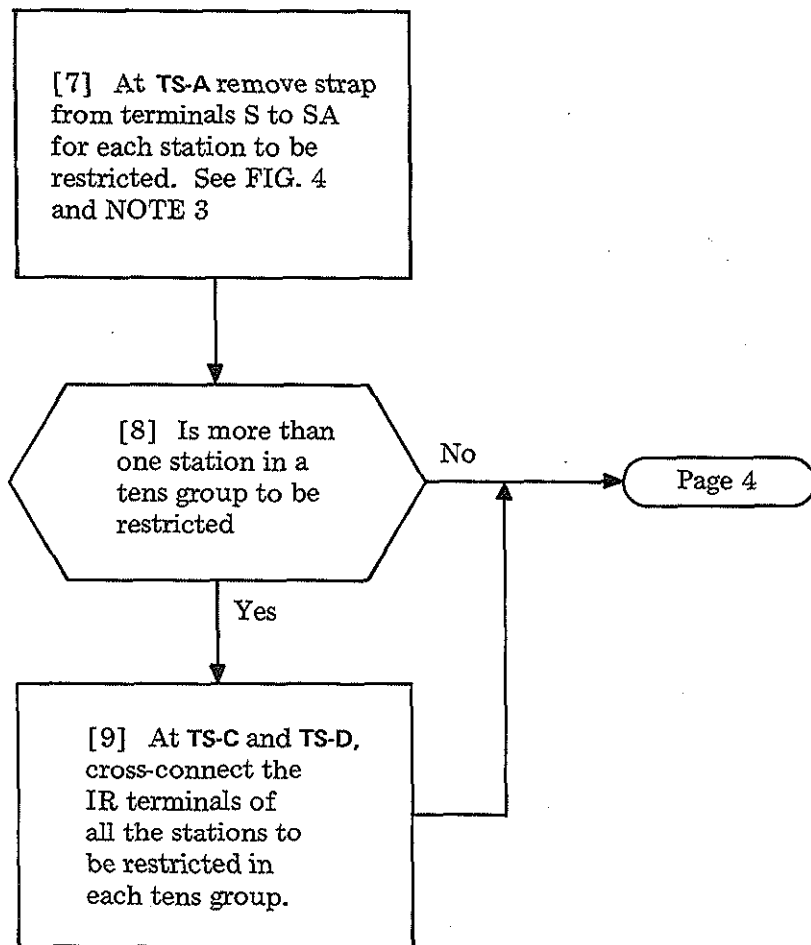


FIG. 3—J58829AL, List 2 Cable

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.

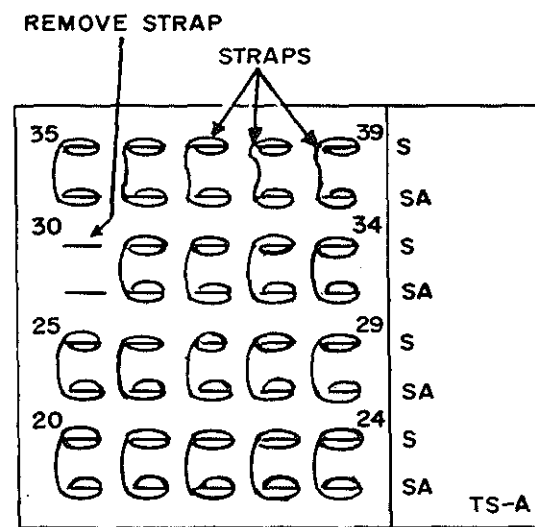
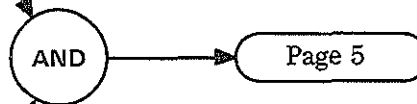


FIG. 4—Example, STA 30

[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

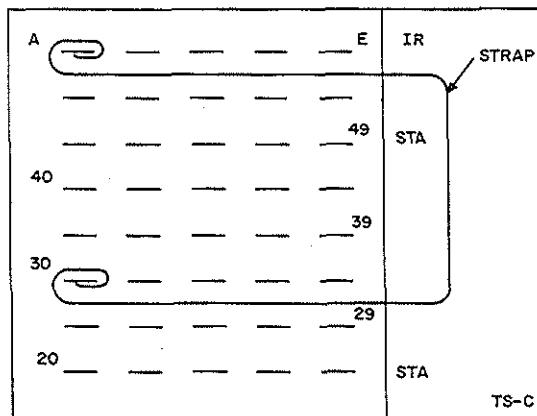


FIG. 5—Example, STA 30

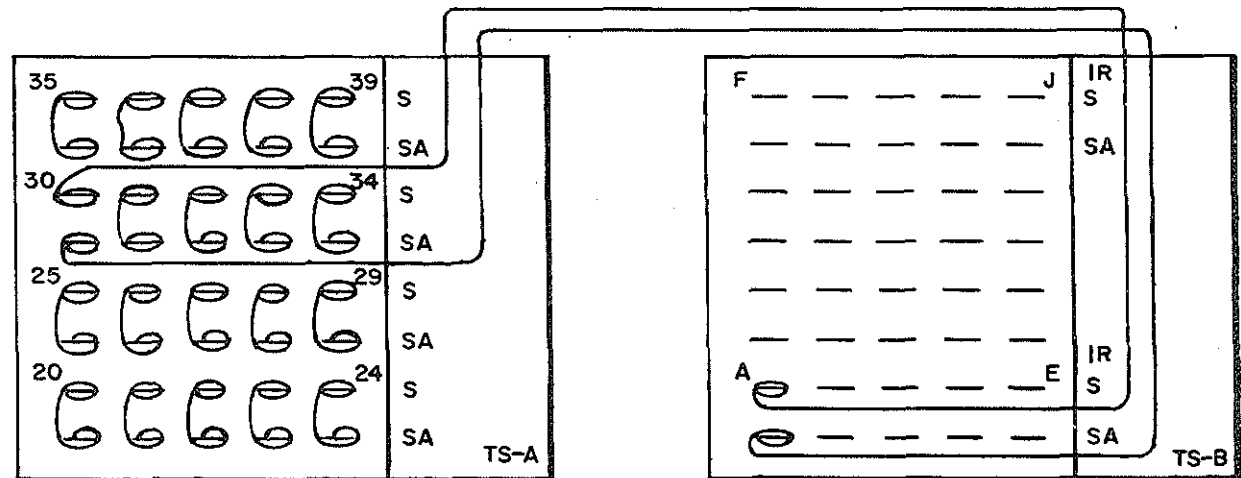
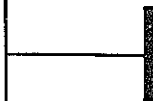
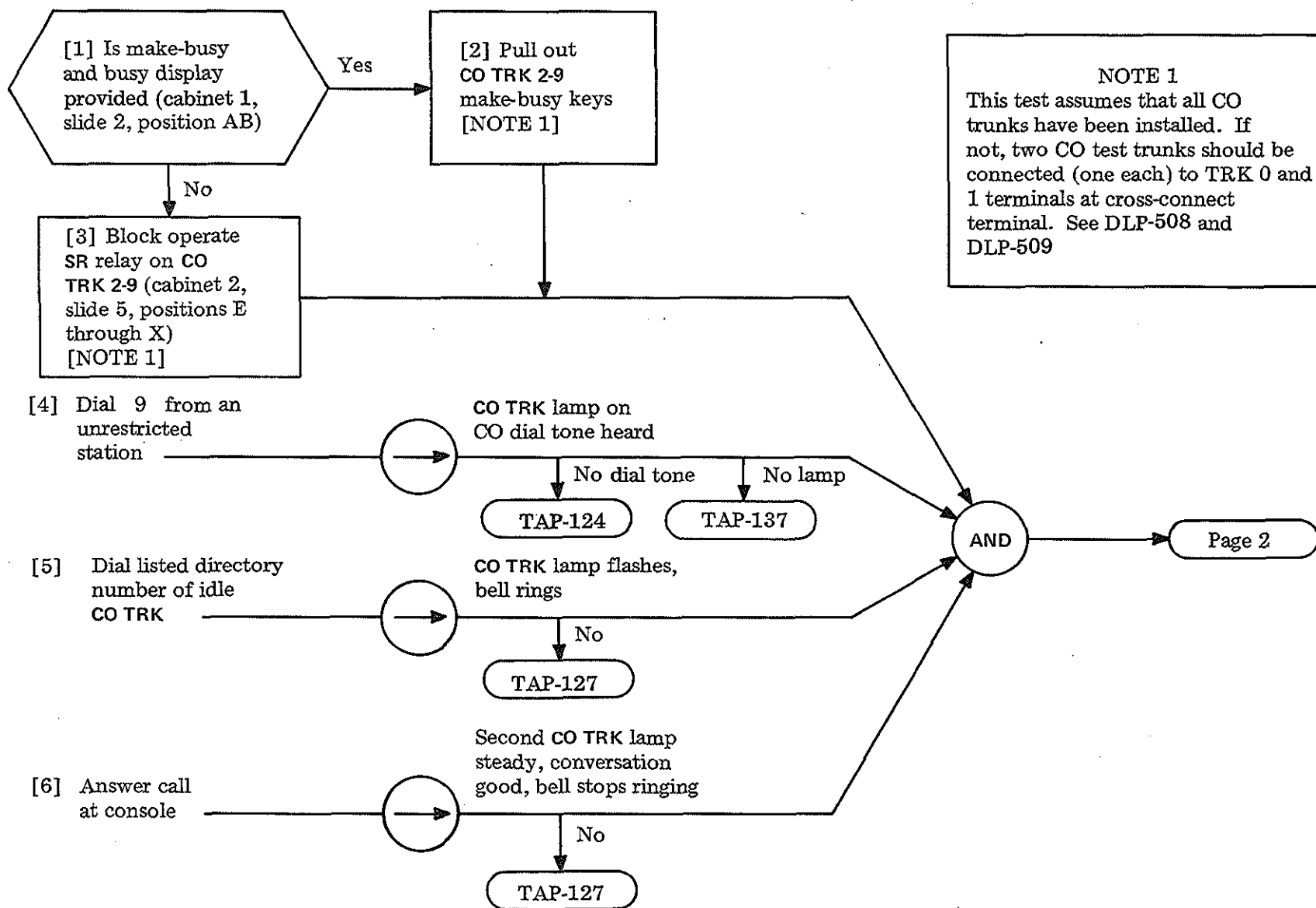


FIG. 6—Example, STA 30

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

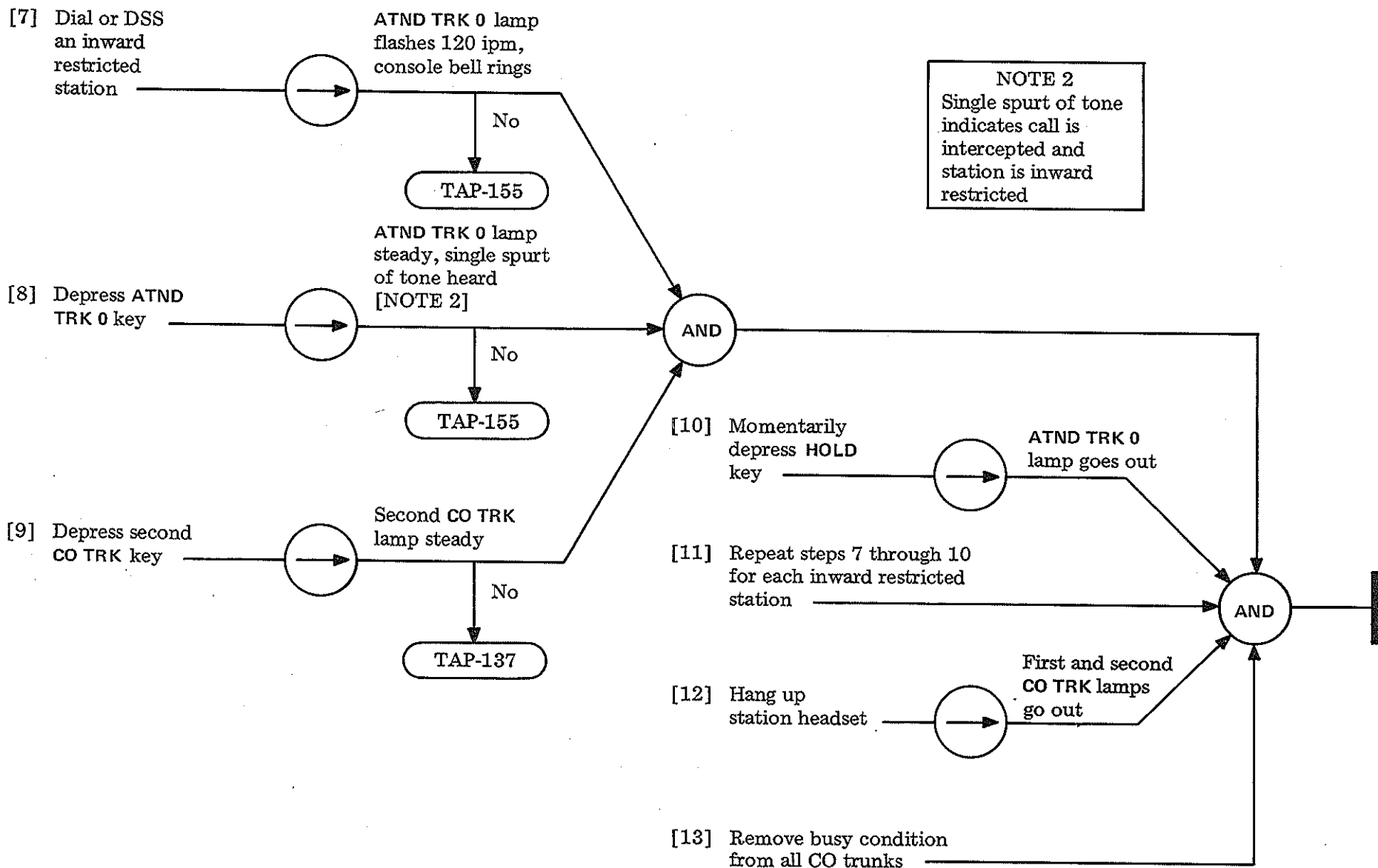


NOTE 6
On a system installation,
testing may be delayed until
all options and features
are installed



TEST STATION INWARD RESTRICTION FEATURE

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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

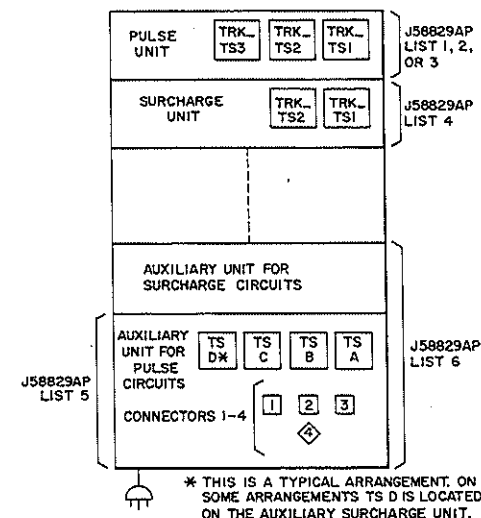


FIG. 1

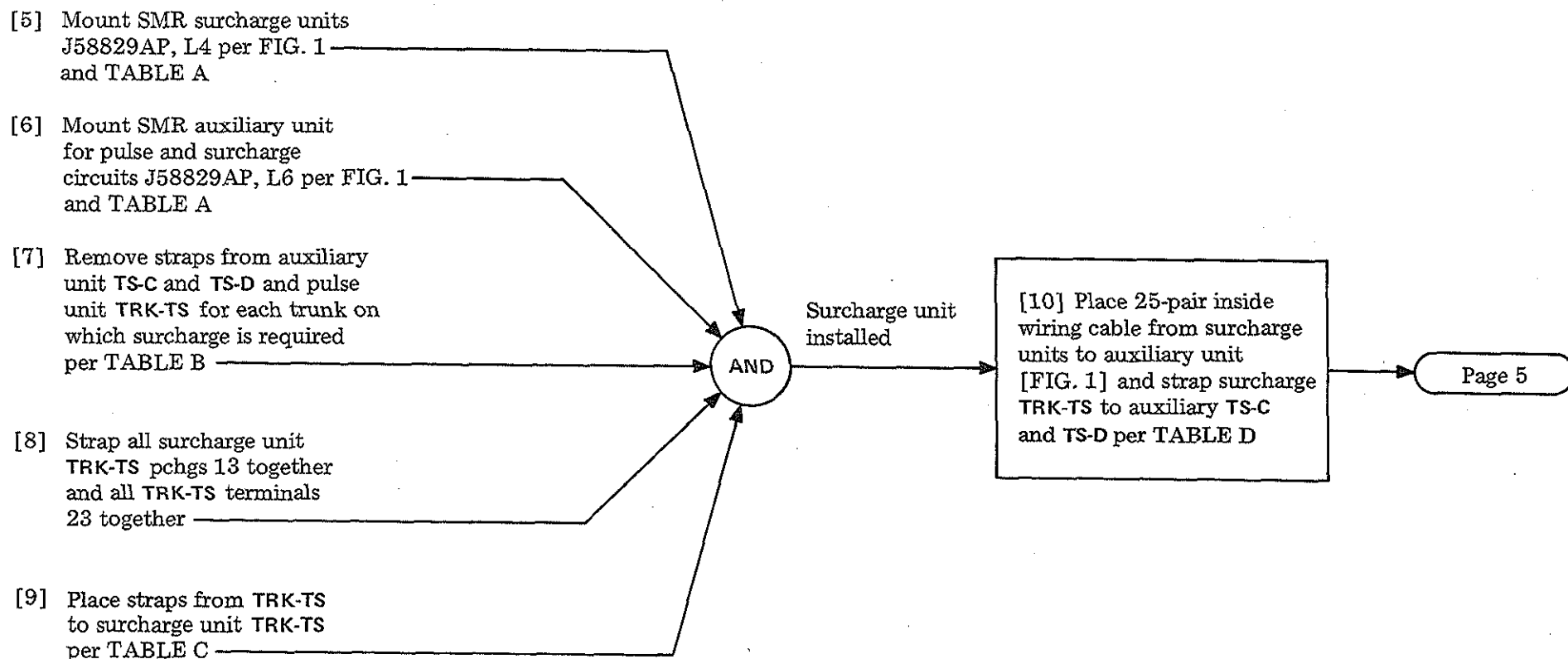


TABLE B			
SURCHARGE REGISTRATION REQUIRED ON	TRK	REMOVE STRAPS	
		AUXILIARY UNIT	ASSOC PULSE UNIT TS
	0	14 of TS(C) to 13 of TS(D) 15 to 17 on TS(D)	26 to 28 18 to 47
	1	24 of TS(C) to 23 of TS(D) 25 to 27 on TS(D)	26 to 28 18 to 47
	2	34 of TS(C) to 33 of TS(D) 35 to 37 on TS(D)	26 to 28 18 to 47
	3	44 of TS(C) to 43 of TS(D) 45 to 47 on TS(D)	26 to 28 18 to 47
	4	54 of 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

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TABLE D													
CONNECT			FROM		TO					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

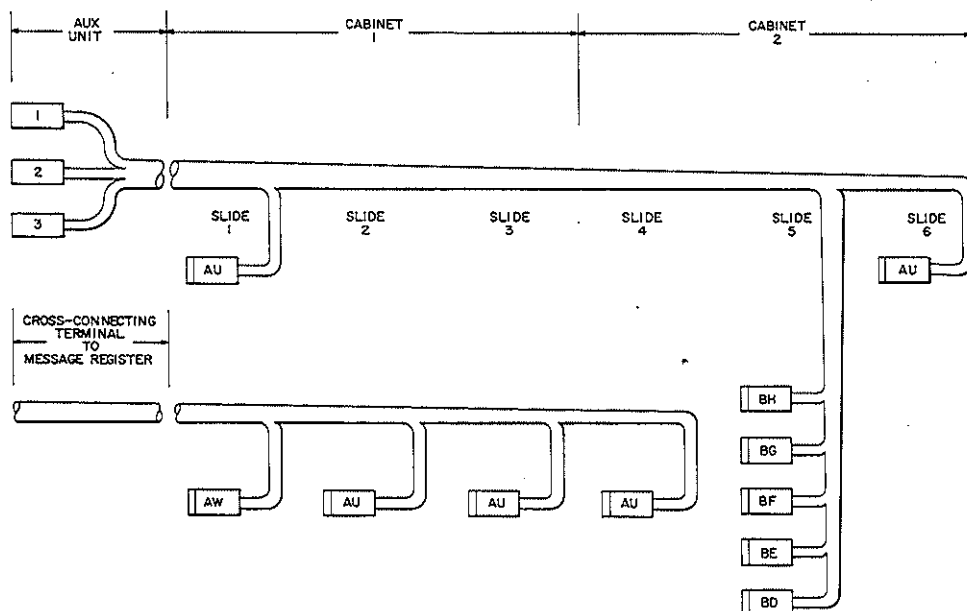
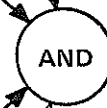
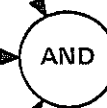


FIG. 2 — Crown Cable J58829AP, L7

- [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]



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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

AND

[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

AND

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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

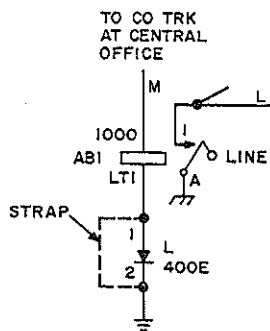


FIG. 3

AND

[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

AND

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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 R-S S-R	-48V A SR M or D S1 GRD A SS2 +48V MR SS1 M *	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															
	BK-BL BL-BK BK-O O-BK BK-G G-BK BK-BR BR-BK BK-S S-BK	-48V A SR M or D S1 GRD A SS2 +48V MR SS1 M *	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 15 11 16 18

* 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	M or D		18		27			V-O	M or D		18			53
	O-R	S1		27		24			O-V	S1		27			54
	R-G	GRD A		31			25		V-G	GRD A		31			55
	G-R	SS2		46		25			G-V	SS2		46			55
	R-BR	+48V MR		51		21			V-BR	+48V MR		51			51
	BR-R	SS1		56		26			BR-V	SS1		56			56
35T 35R	R-S S-R	M *	6 ▼	58		28		50T 50R	V-S S-V	M *	9 ▼	58			58
*These leads spare															
	BK-BL	-48V A	7 ▲	11			32								
	BL-BK	SR		17		33									
	BK-O	M or D		18		37									
	O-BK	S1		27		34									
	BK-G	GRD A		31			35								
	G-BK	SS2		46		35									
	BK-BR	+48V MR		51		31									
	BR-BK	SS1		56		36									
40T 40R	BK-S S-BK	M *	7 ▼	58		38									
41T 41R	Y-BL BL-Y	-48V A SR	8 ▲	11 17			42								
	Y-O	M or D		18		43									
	O-Y	S1		27		44									
	Y-G	GRD A		31			45								
	G-Y	SS2		46		45									
	Y-BR	+48V MR		51		41									
	BR-Y	SS1		56		46									
45T 45R	Y-S S-Y	M *	8 ▼	58		48									

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TABLE G															
CONNECT J58829AP, L7 CA			TO	FROM	CONNECT			CONNECT			TO	FROM	CONNECT		
BDR AND PAIR	COLOR	LEAD	CROSS- CONNECT TERMINAL	MR CAB STA TS	50-PAIR CABLE			J58829AP, L7 CA			CROSS- CONNECT TERMINAL	MR CAB STA TS	50-PAIR CABLE		
			SP TERM	TERM	LEAD	COLOR	BDR AND PAIR	BDR AND PAIR	COLOR	LEAD	SP TERM	TERM	LEAD	COLOR	BDR AND PAIR
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			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	32T
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

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

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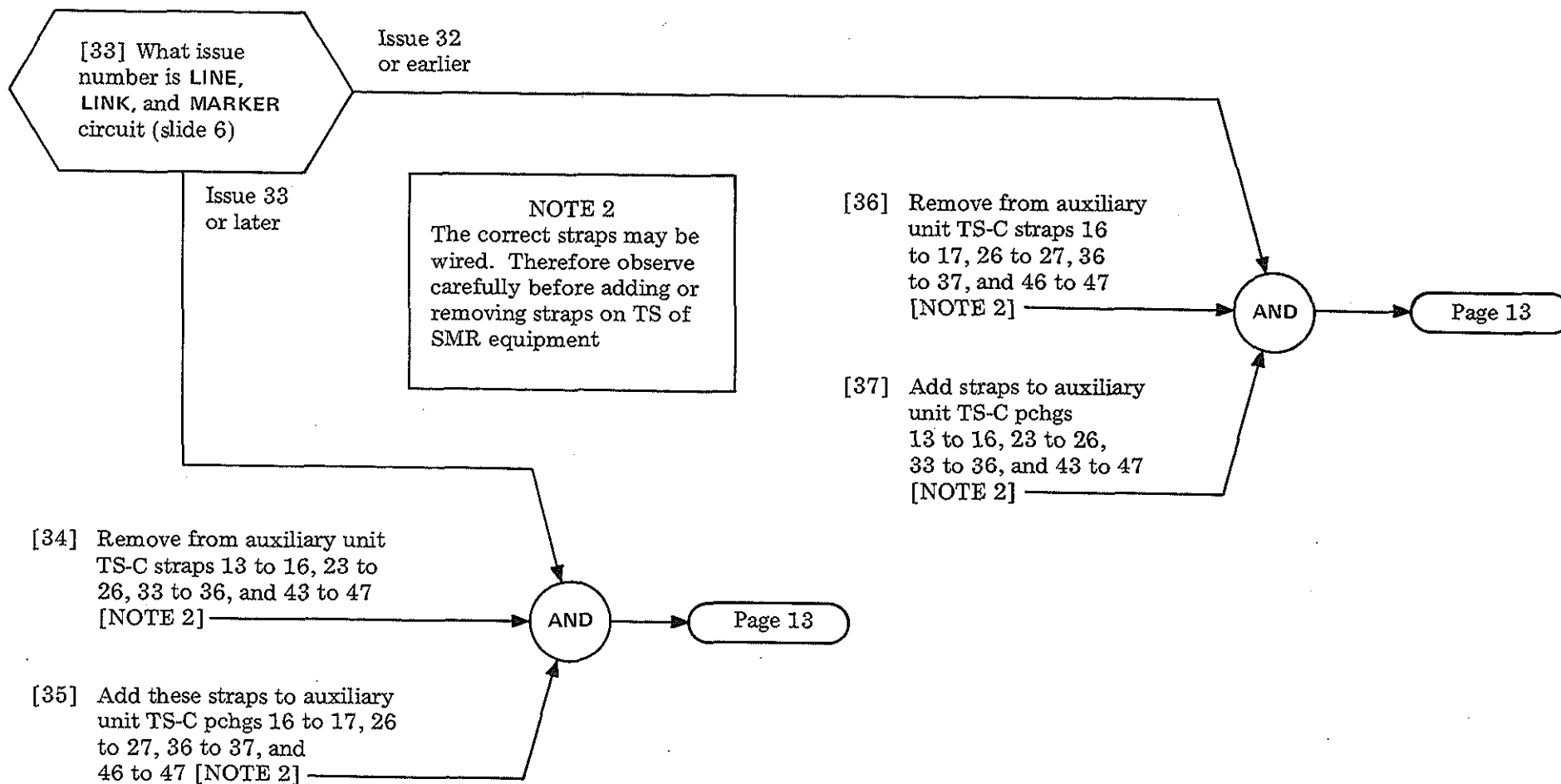
TABLE H						
CONNECT THE A25C CABLE				CONNECT THE 6-PAIR CABLE		
FROM			TO	FROM		
CONNECTOR 4 AUXILIARY UNIT			CROSS-CONNECT SP TERM BLOCK	TRUNK MESSAGE REGISTER		
PAIR	COLOR	LEAD	TERM	COLOR	PAIR	TRUNK
16T	Y-BL	M or D	T1	W-BL	1T	TRK-1
16R	BL-Y	↑	R1	BL-W	1R	0
	Y-O		T2	W-O		3
	O-Y		R2	O-W		2
	Y-G		T3	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

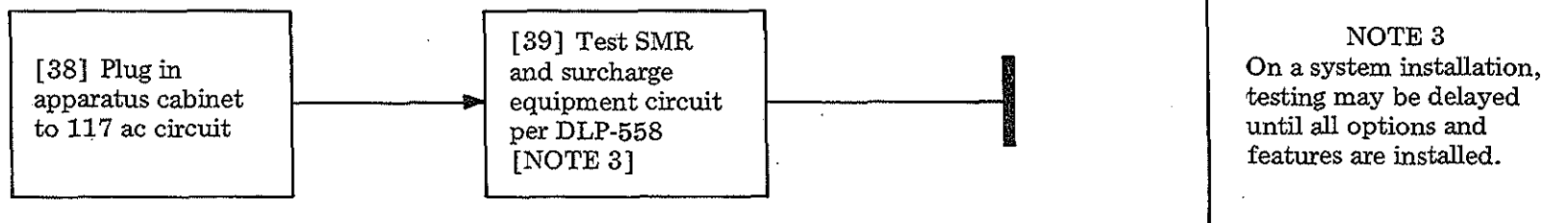
TABLE I					
CONNECT			FROM	TO	
A25C CABLE			CROSS-CONNECT SP TERM BLOCK	CROSS-WIRE TO M-LEAD ASSOCIATED WITH CO TRK*	
PAIR	COLOR	LEAD	TERM		
21T	V-BL	M ↑	T6	TRK-1	
21R	BL-V		R6	0	
	V-O		T7	3	
	O-V		R7	2	
	V-G		T8	5	
	G-V		R8	4	
	V-BR		T9	7	
	BR-V		R9	6	
25T	V-S	↓ M	T10	9	
25R	S-V		R10	TRK-8	

* From central office

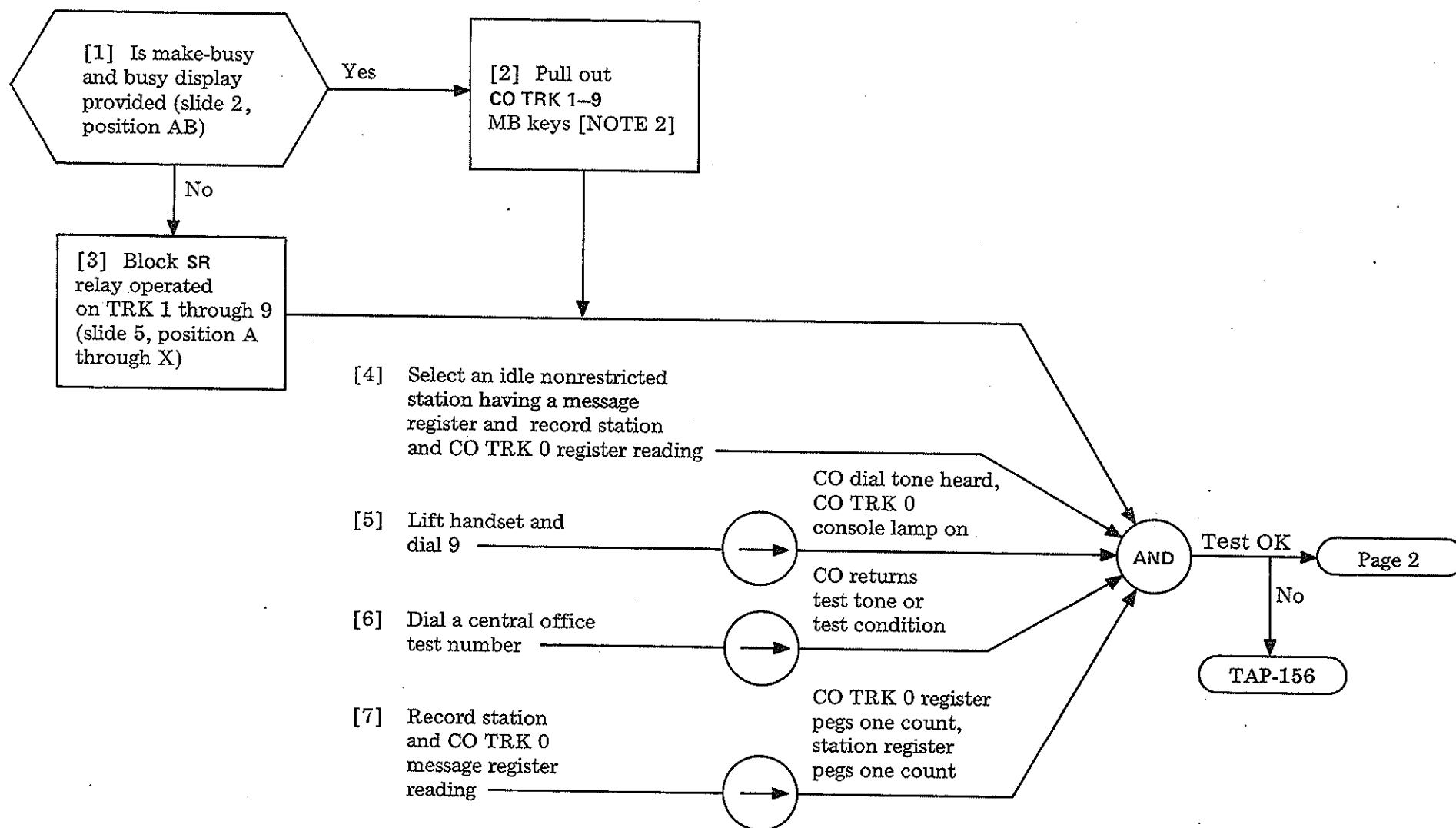
INSTALL AND TEST STATION MESSAGE REGISTER (SMR) PULSE AND SURCHARGE EQUIPMENT (SD-5E021)

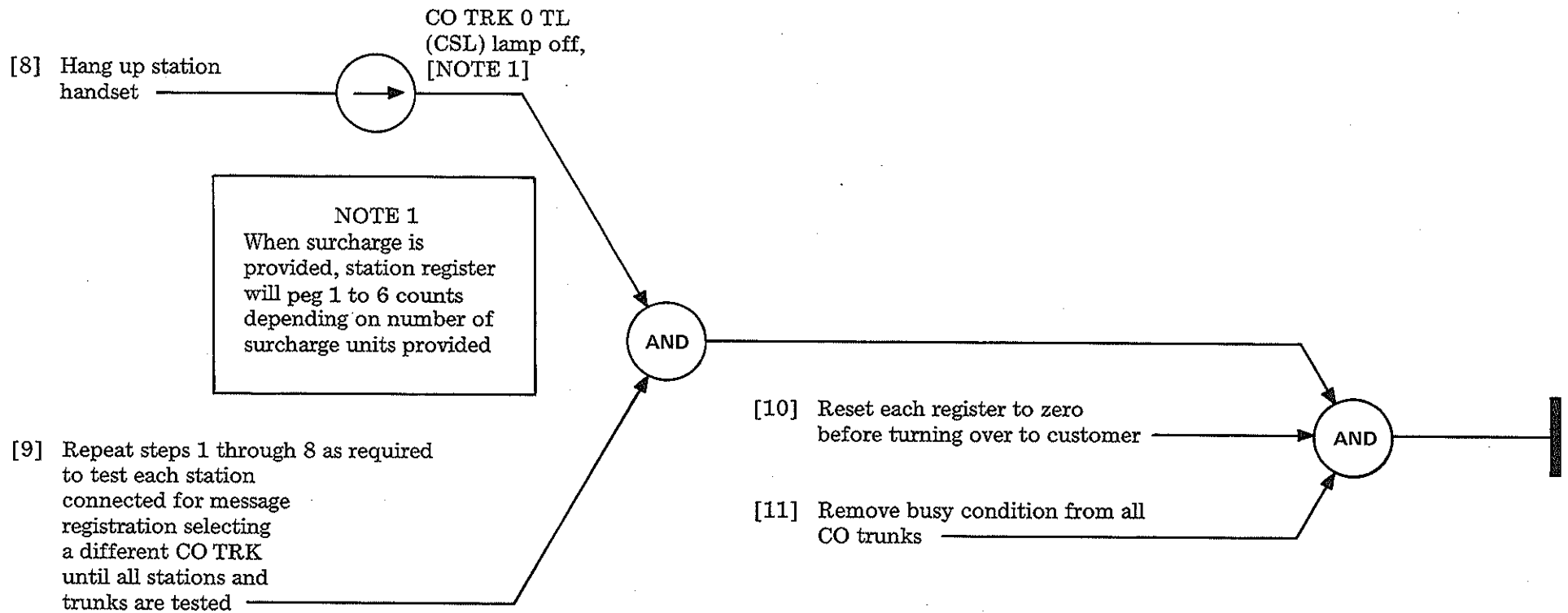
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NOTE 3
On a system installation,
testing may be delayed
until all options and
features are installed.





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

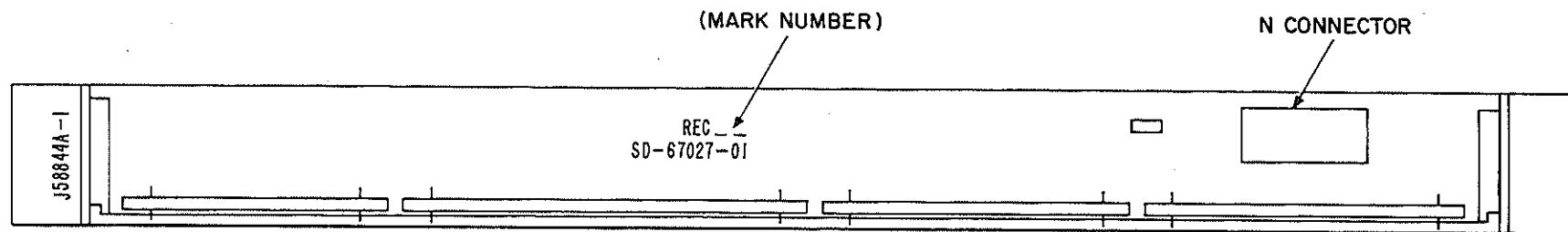


FIG. 1—C-Type Receiver (J58844A, L1) Unit

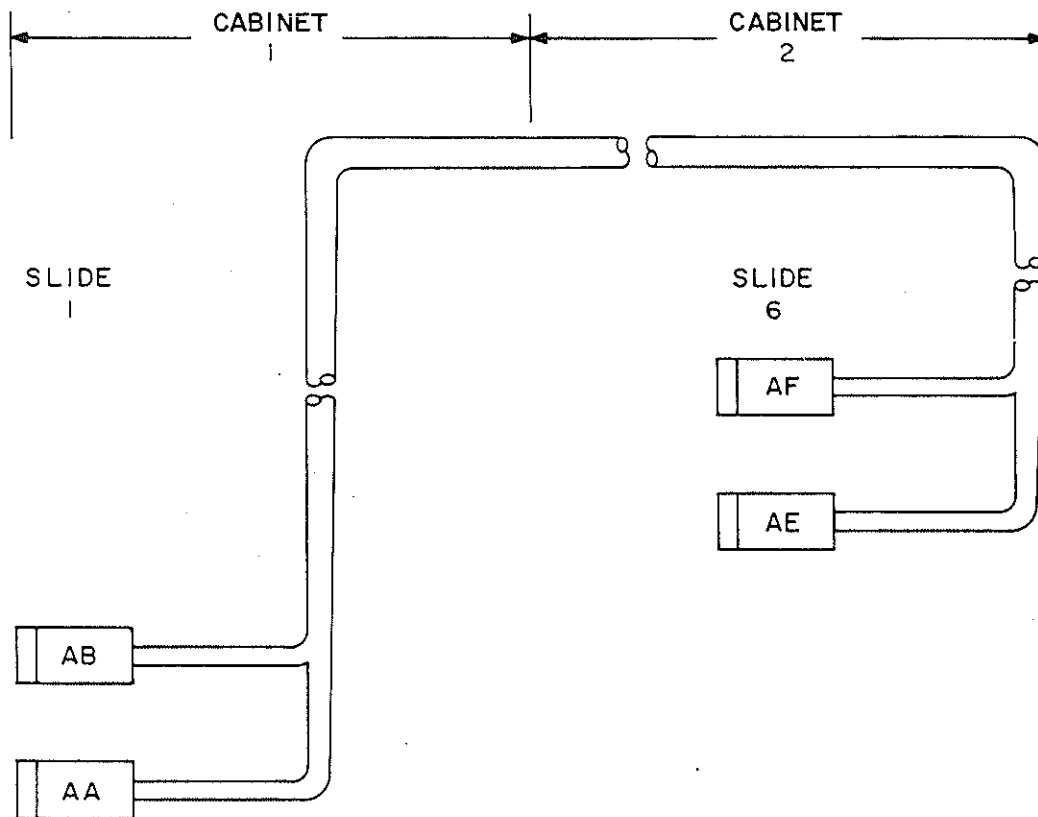


FIG. 2

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

INSTALL AND TEST C-TYPE "TOUCH-TONE®" CALLING EQUIPMENT (SD-67027)

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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

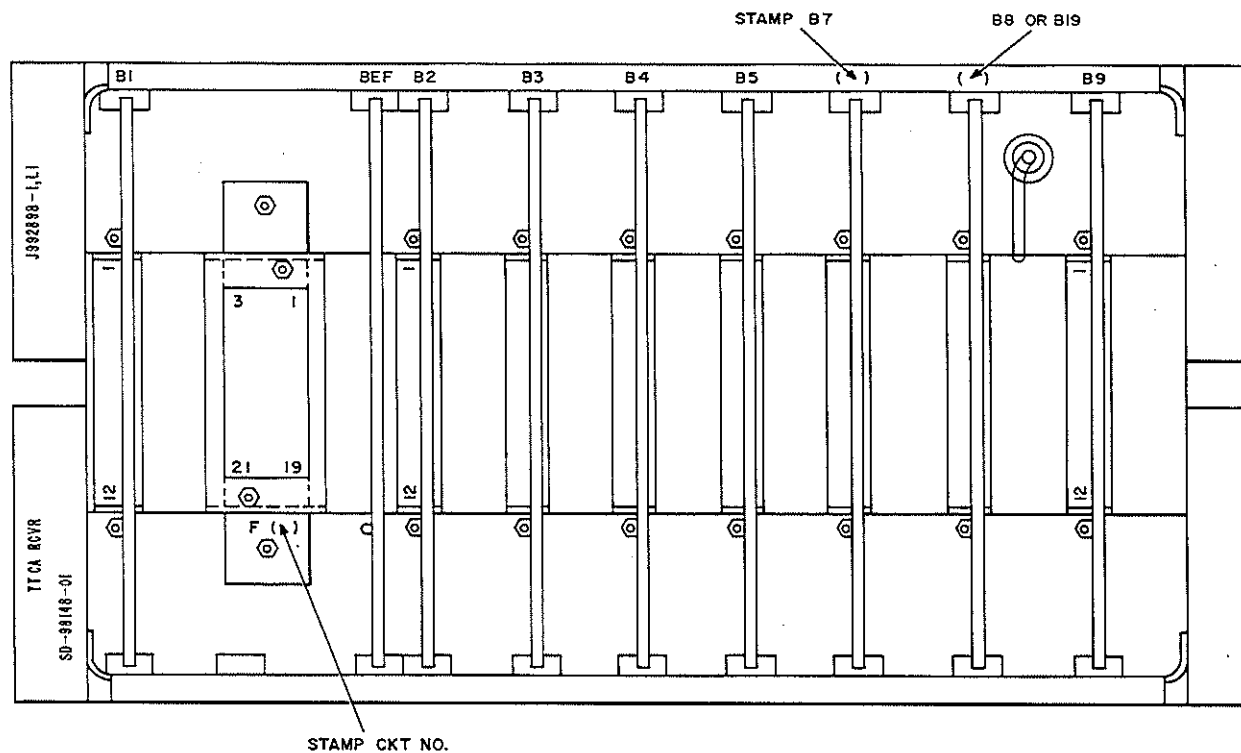


FIG. 1—A-Type TOUCH-TONE Calling Receiver Unit J99289B, List 1 (SD-98148)

INSTALL AND TEST A-TYPE "TOUCH-TONE®" CALLING EQUIPMENT (SD-98148)

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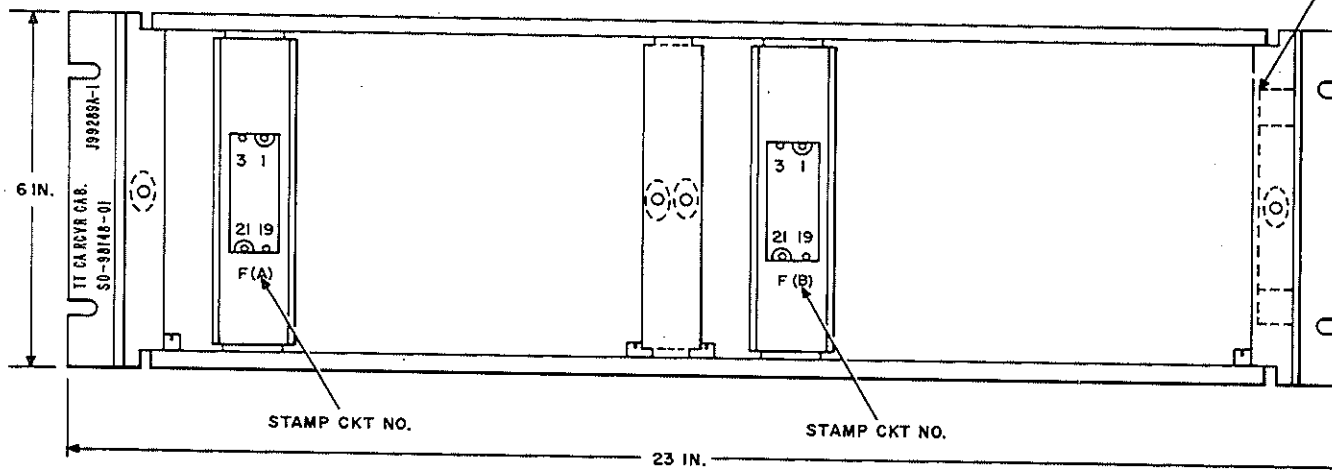
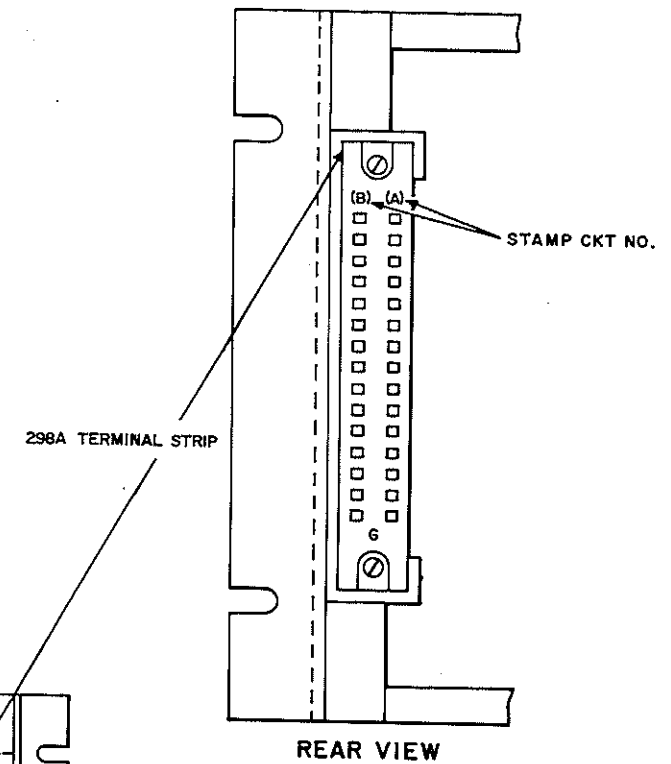
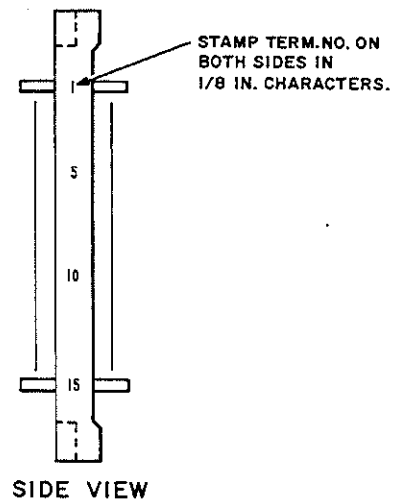


FIG. 2 - TOUCH-TONE Calling Receiver Unit Mounting Shelf (J99289A, List 1)—Front View

INSTALL AND TEST A-TYPE "TOUCH-TONE®" CALLING EQUIPMENT (SD-98148)

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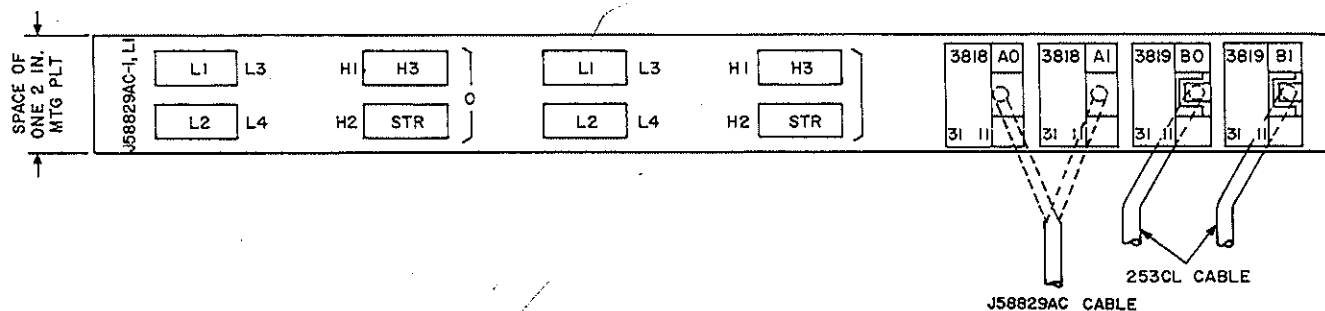


FIG. 3—Translation Unit J58829AC, List 1

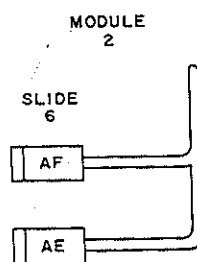


FIG. 4—Plan View Showing Location of J58829AC, List 2 (A&M)
Supplementary House and Feeder Cable Plugs

<p align="center">TABLE B 25-PAIR SUPPLEMENTARY CABLE— REGISTERS 0 AND 1 TO TRANSLATION UNIT J58829AC CABLE</p>							
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

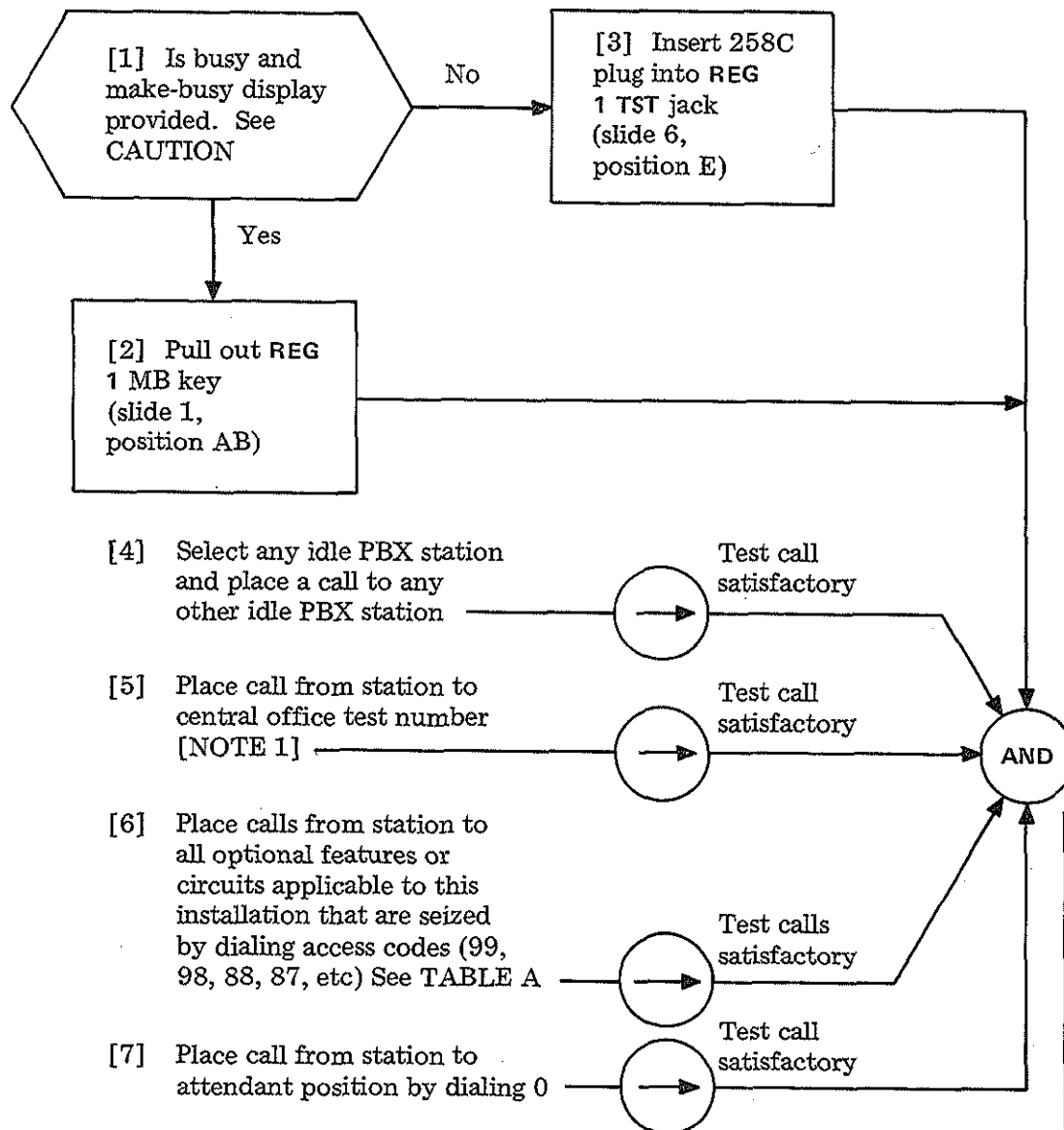


TABLE A	
	PROCEDURE
Ringdown Tie Trunk	DLP-552
Meet-Me-Type Conference	DLP-546
Station-Controlled Dial Conf	DLP-554
Loudspeaker Paging Trunk	DLP-544
Recorded Telephone Dictation	DLP-550
Code Call	DLP-540

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

[8] Depress any ATND TRK key at attendant console and place call to PBX station 30

Call satisfactory
See NOTE 2

[9] Repeat step 8 dialing stations 31 through 39, 41, 51, 61, and 71 [NOTE 2]

All digits and tones for REC 0 and REG 0 tested

REC 0 and REG 0 test completed satisfactorily

[10] Remove make-busy condition of REG 1 [step 2 or 3]

AND

No

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[11] Make REG 0 busy per step 2 or 3

[12] Repeat steps 4 through 9 testing receiver (REC) 1 and register (REG) 1

All digits and tones for REC 1 and REG 1 tested

REC 1 and REG 1 test completed satisfactorily

AND

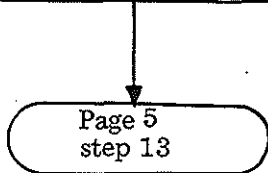
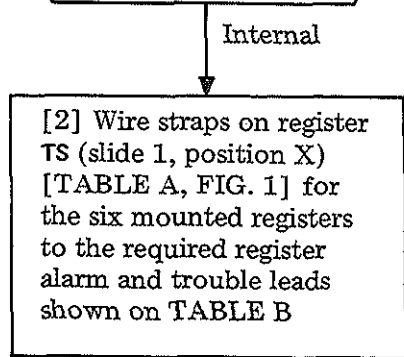
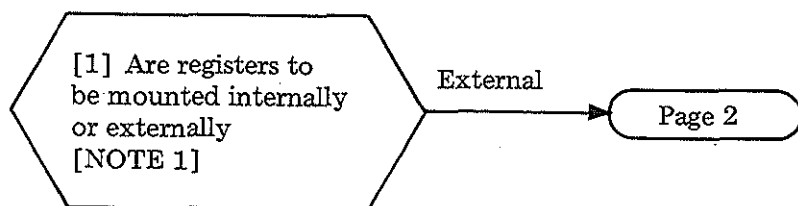
No

[13] Remove make-busy condition of REG 0

TAP-157

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)



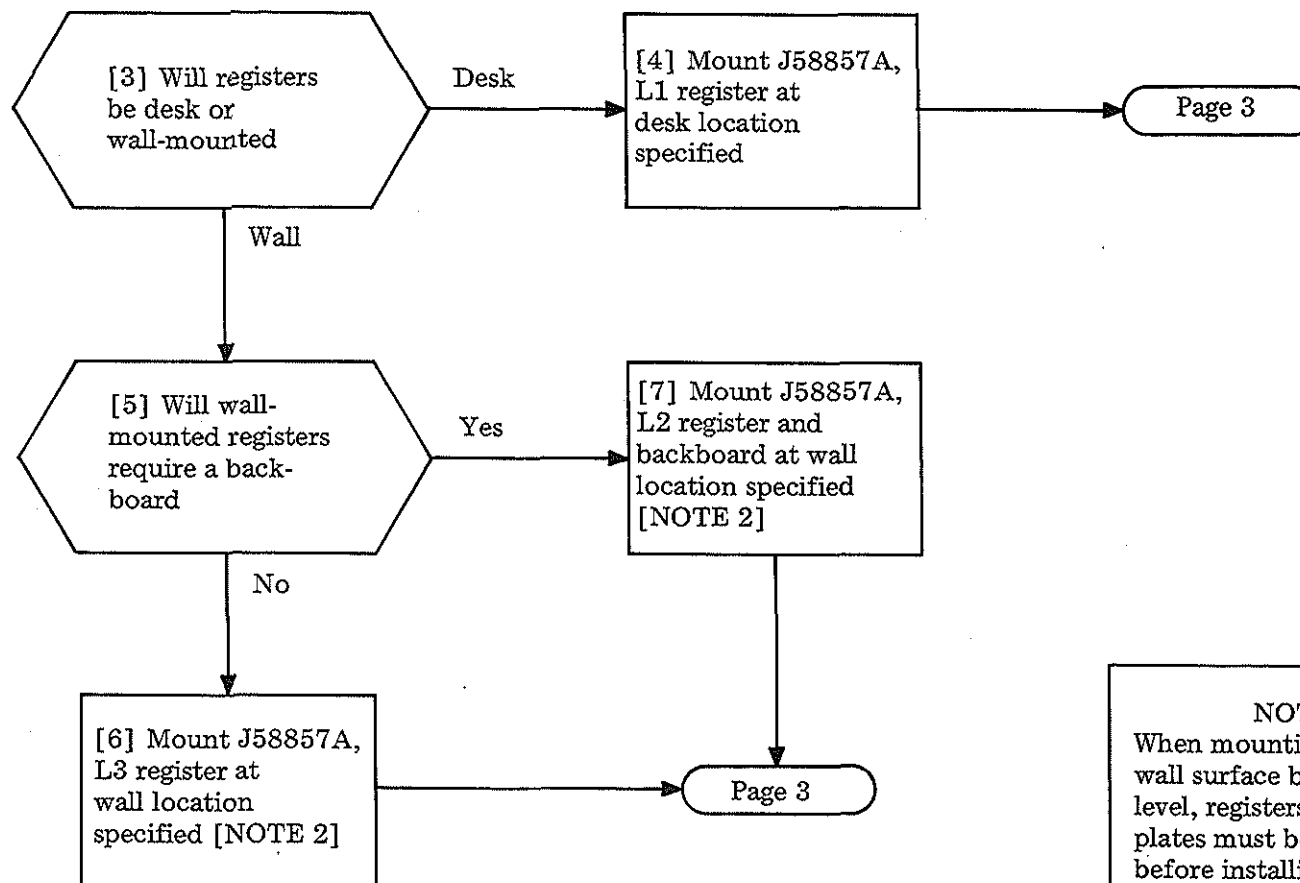
NOTE 1
Both internal and external registers may be used at the same time for a total of 16 registers if required

TABLE A	
INTERNAL REGISTER	REG TS
	TERM
1	41
2	42
3	43
4	44
5	45
6	46

58	18	CAD 10			
		TR10	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	Junctor 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	Junctor 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

[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

AND

Page 5

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

TABLE D									
CONNECT		FROM		TO				75-PAIR HOUSE AND FEEDER CABLE	
25-PR CABLE		EXT REG CABINET	REG LEAD	CROSS-CONNECT TERMINAL					
PAIR	COLOR			PREWIRED		WALL-MTD			
		TS-A TERM		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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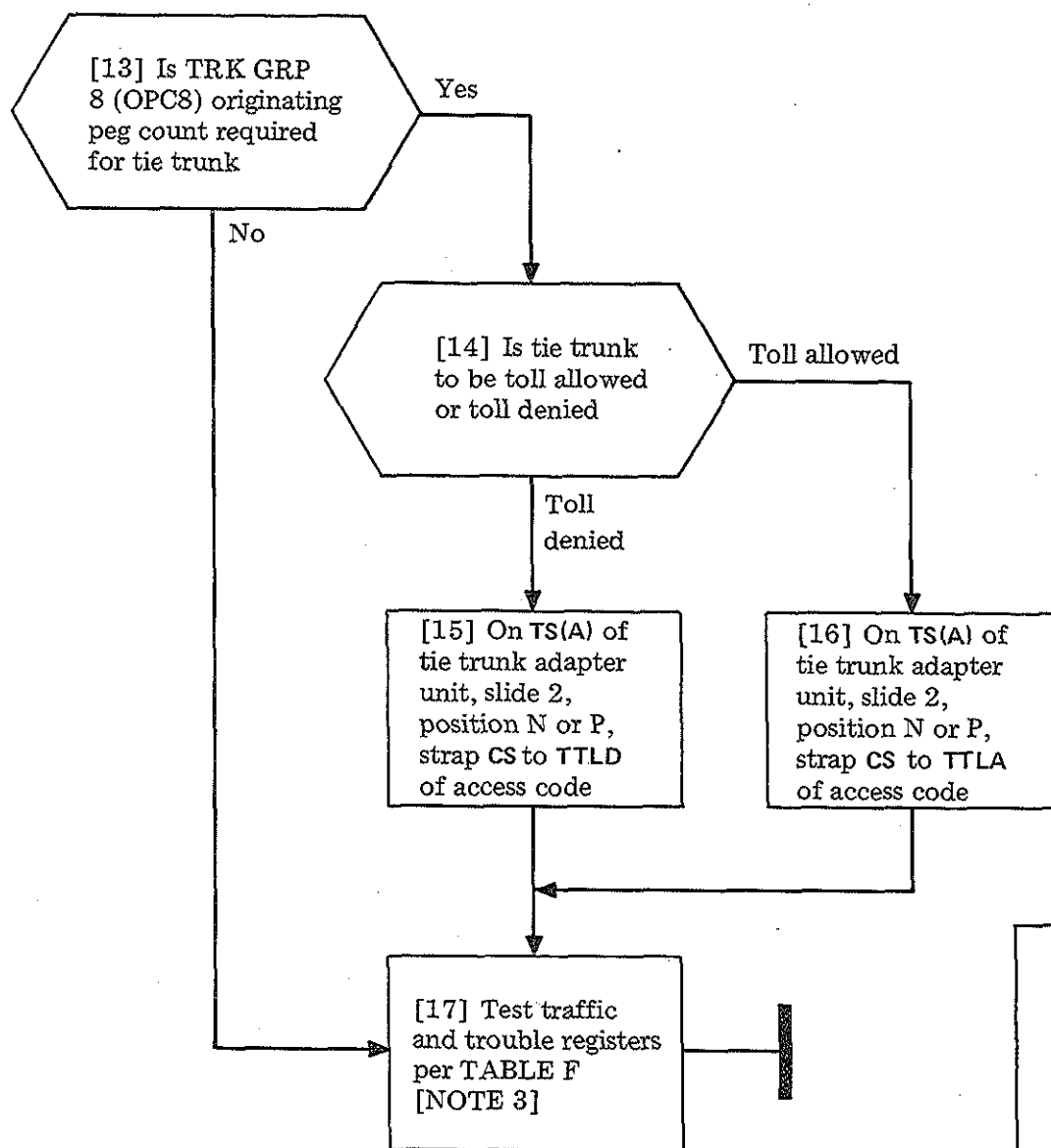
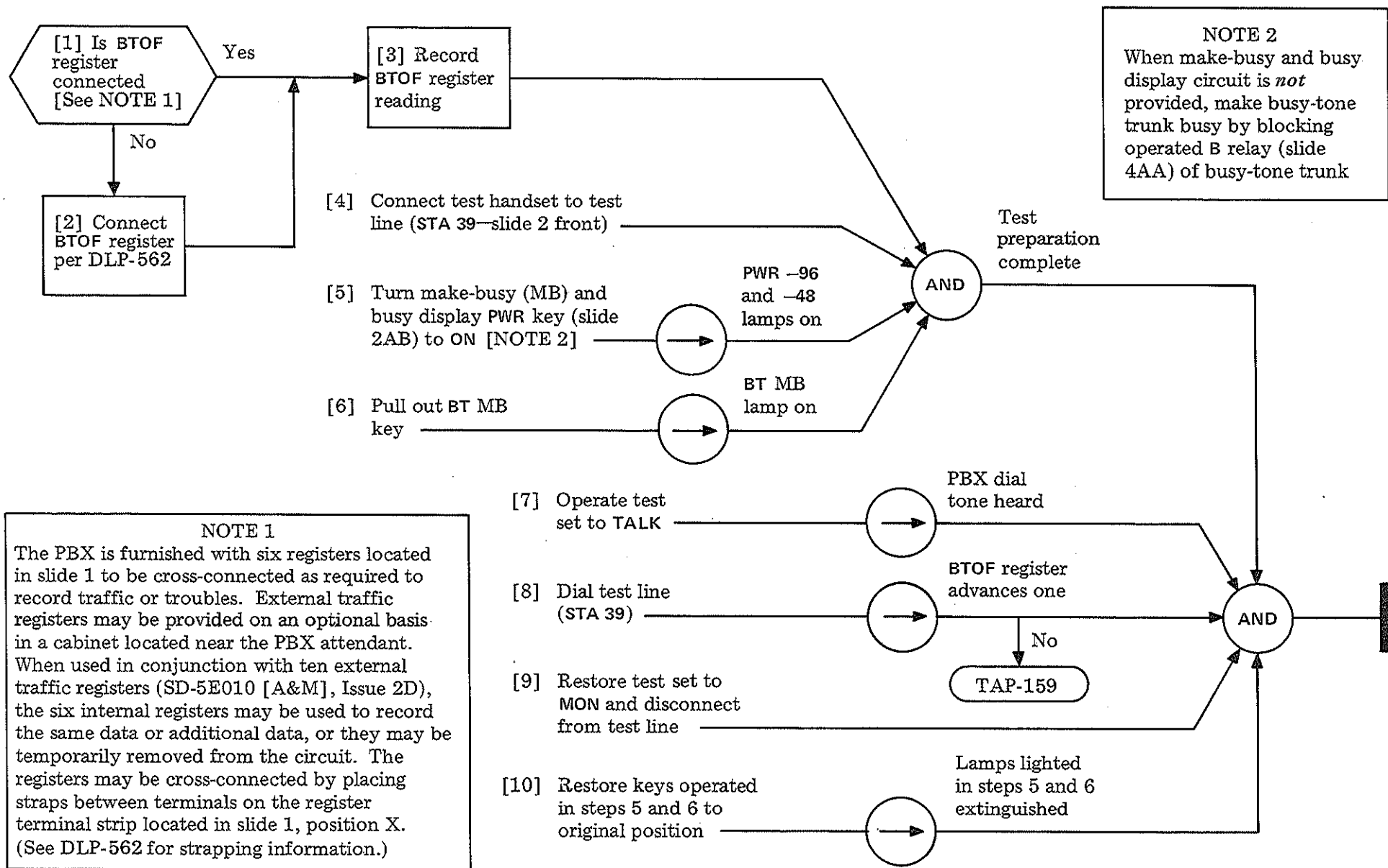


TABLE F	
REGISTERS	TEST PROCEDURE
Busy-Tone Overflow (BTOF)	DLP-563
Busy-Tone Peg Count (BTPC)	DLP-564
Junctor Overflow (JOF)	DLP-565
Junctor Peg Count (JPC)	DLP-566
Link Overflow (LOF)	DLP-567
No-Connection Peg Count (NCPC)	DLP-568
Originating (Station) Peg Count (OPC)	DLP-569
Register Overflow (ROF)	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



TEST BUSY-TONE OVERFLOW (BTOF) REGISTER

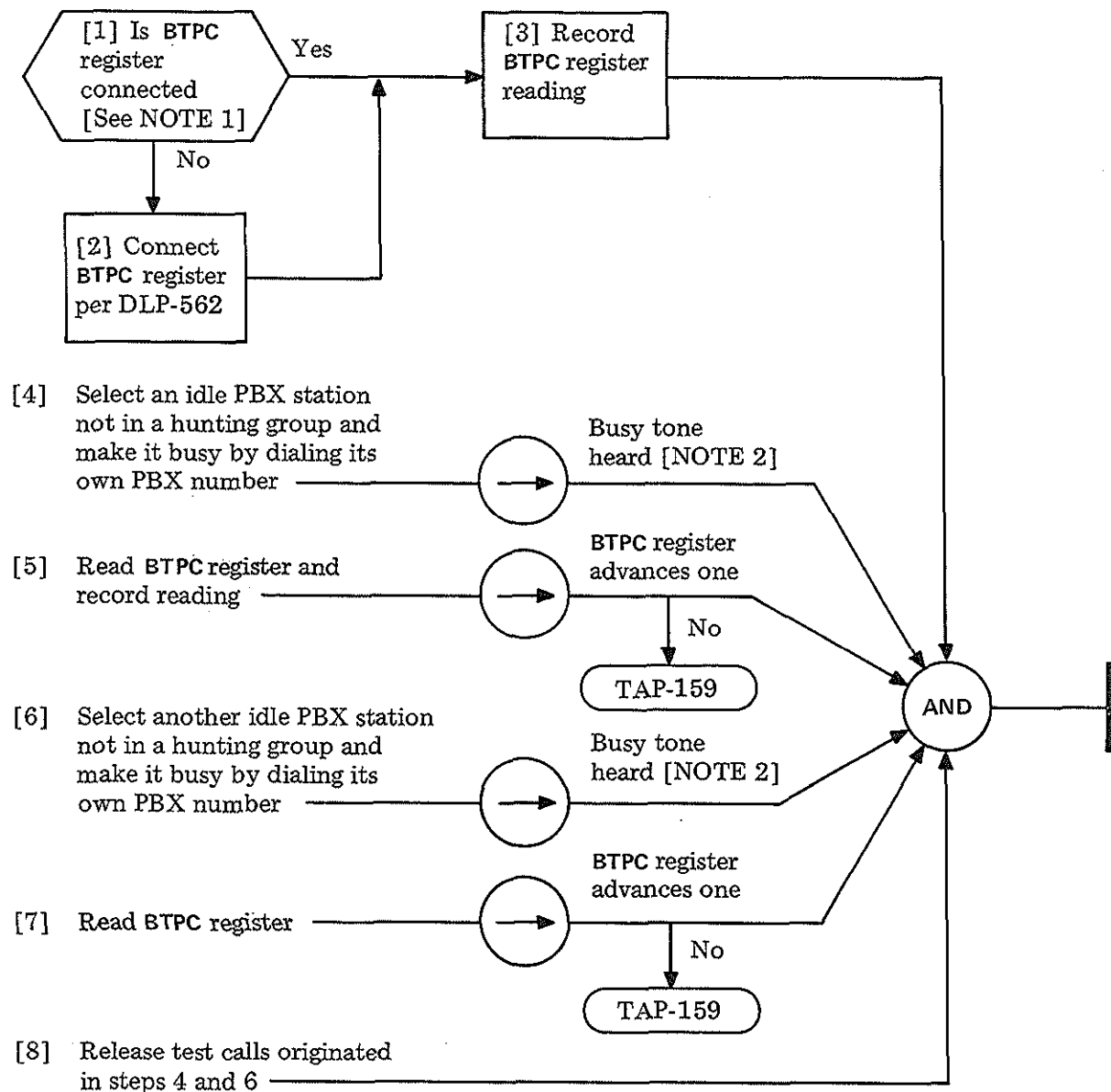
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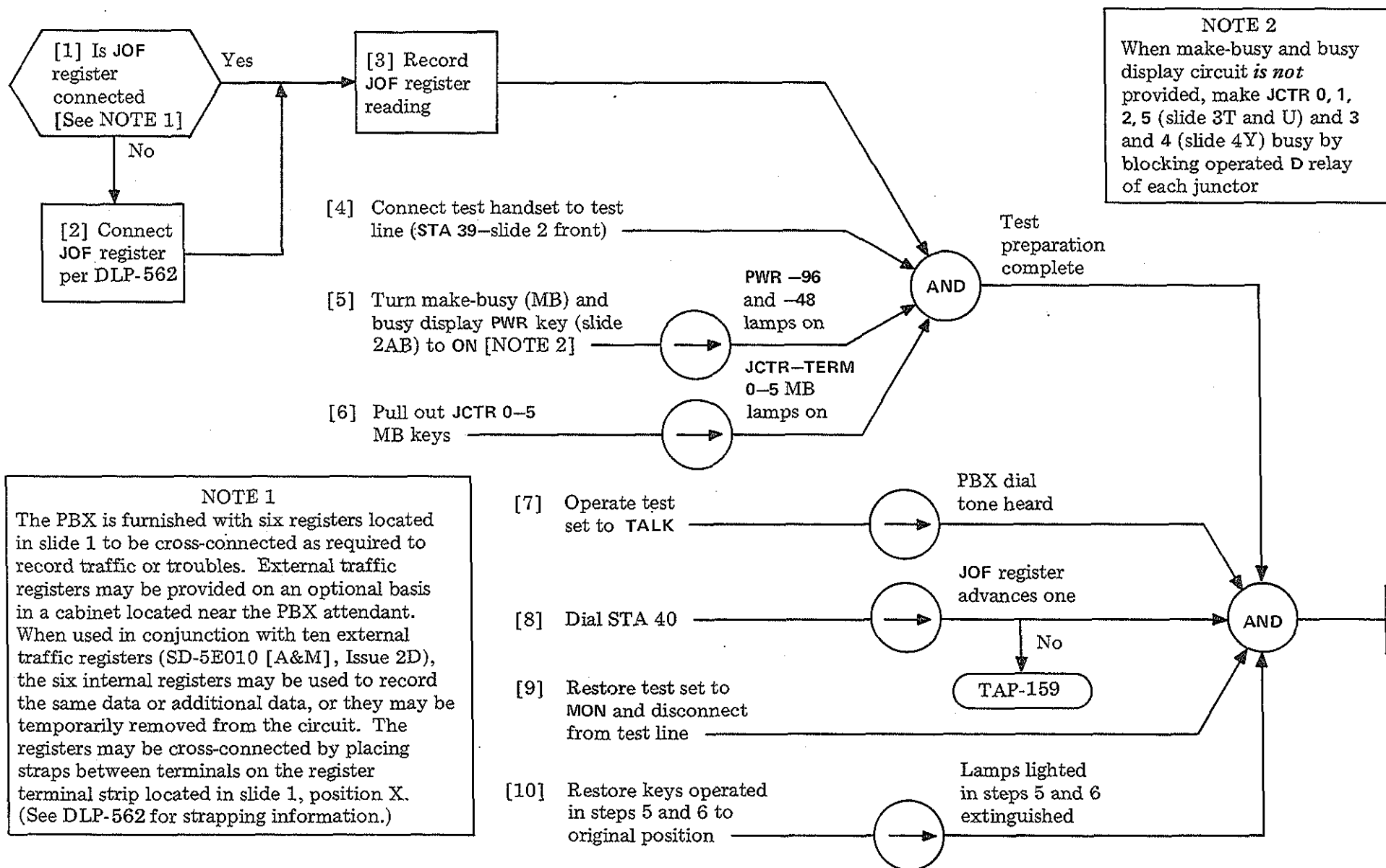
NOTE 1

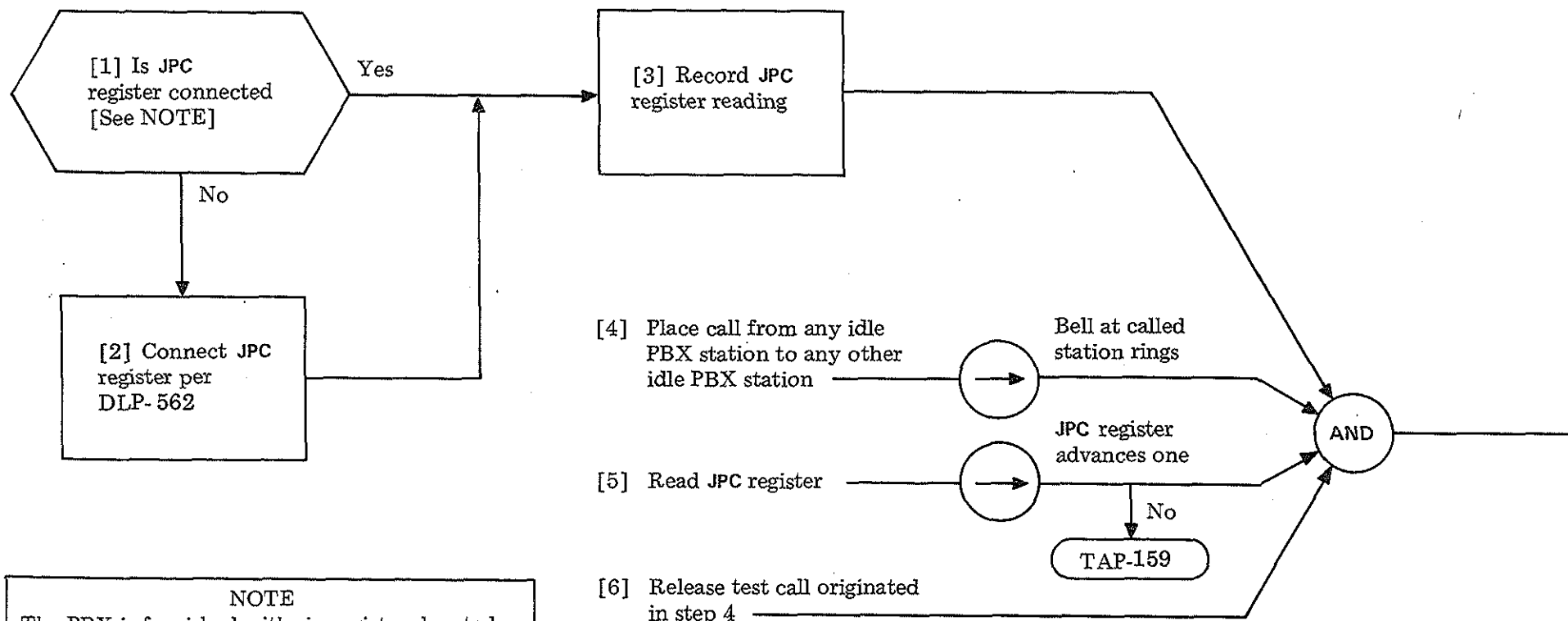
The PBX is furnished with six registers located in slide 1 to be cross-connected as required to record traffic or troubles. External traffic registers may be provided on an optional basis in a cabinet located near the PBX attendant. When used in conjunction with ten external traffic registers (SD-5E010 [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





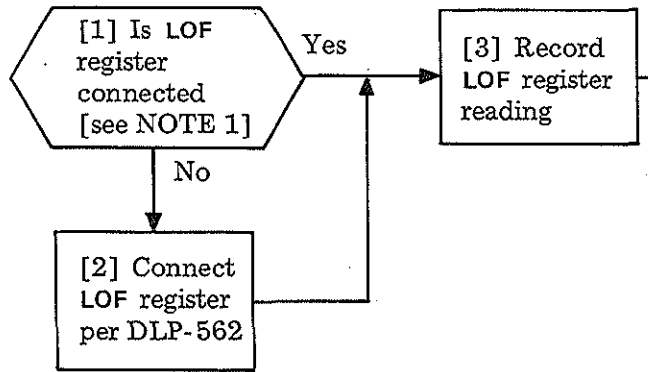


NOTE

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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 ½ 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

PWR -96 and -48 lamps on

LINK 02-09 and LINK 12-19 MB lamps on

LOF register advances one [NOTE 3]

No

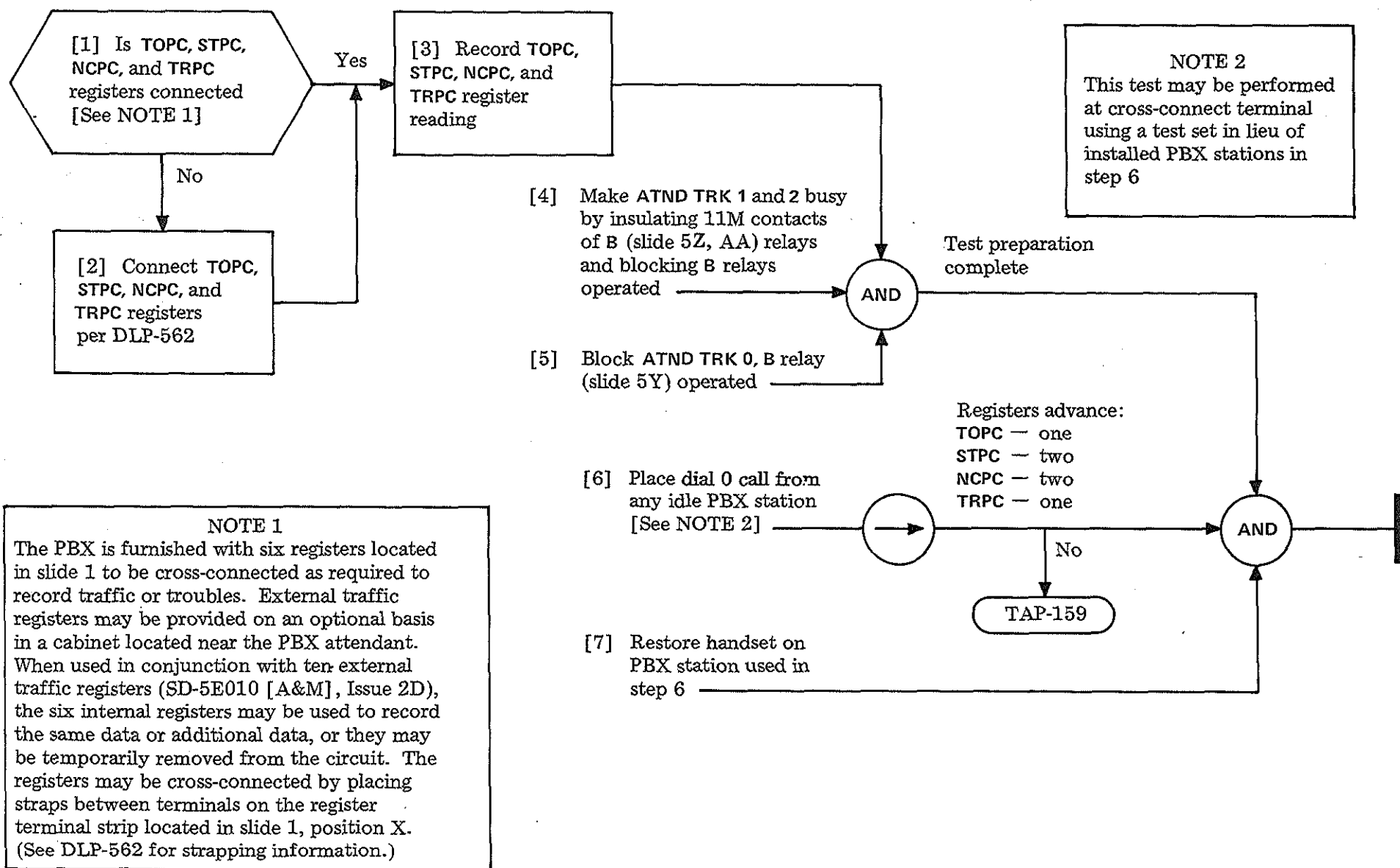
TAP-159

Lamps lighted in steps 5 and 6 extinguished

AND

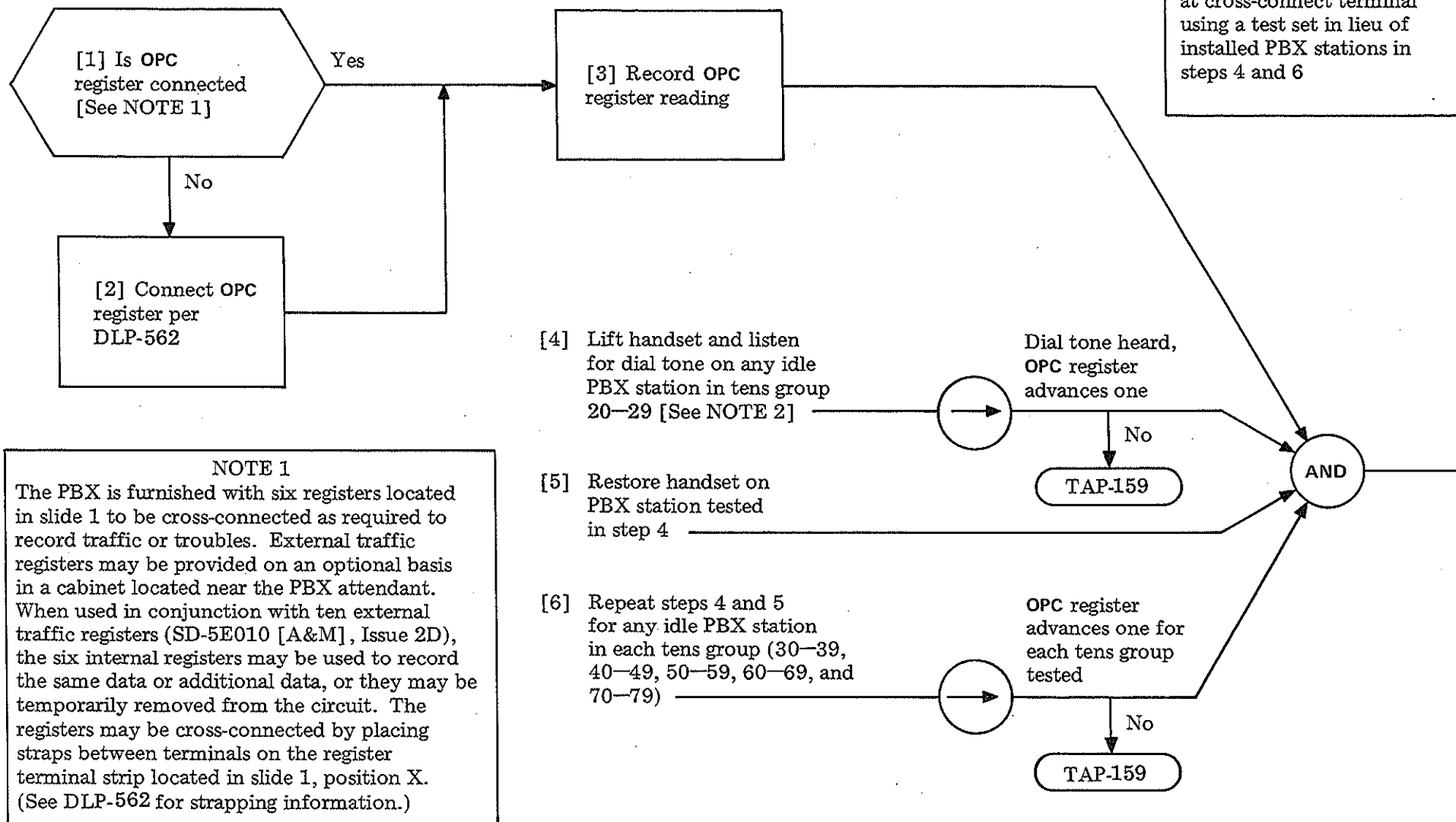
TEST LINK OVERFLOW (LOF) REGISTER

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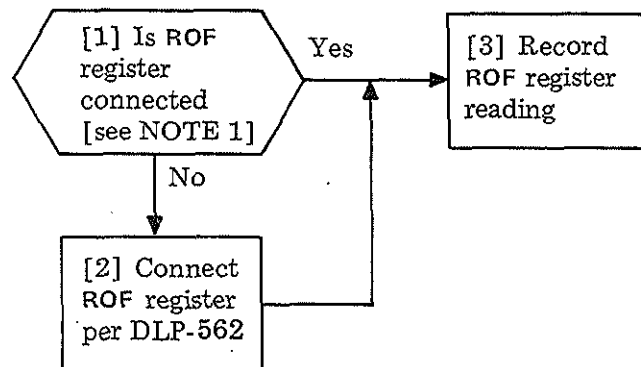
TEST TIME-OUT (TOPC), SECOND TRIAL (STPC), NO CONNECTION (NCPC),
 AND TROUBLE RELEASE (TRPC) PEG COUNT REGISTERS

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TEST ORIGINATING (STA) PEG COUNT (OPC) 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

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)

[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]

PWR -96 and -48 lamps on

[6] Pull out REG 0 and 1 MB keys

REG 0 and 1 MB lamps on

[7] Operate test set to TALK

ROF register advances one

No

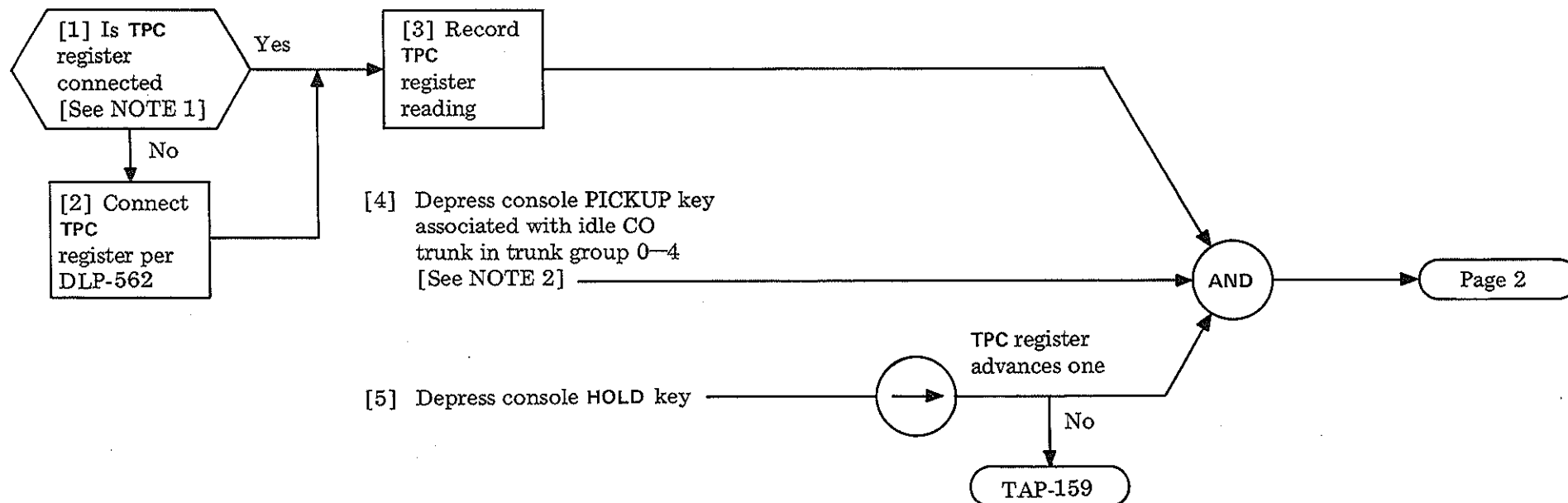
TAP-159

[8] Restore test set to MON and disconnect from test line

[9] Restore keys operated in steps 5 and 6 to original position

Lamps lighted in steps 5 and 6 extinguished

AND



NOTE 1

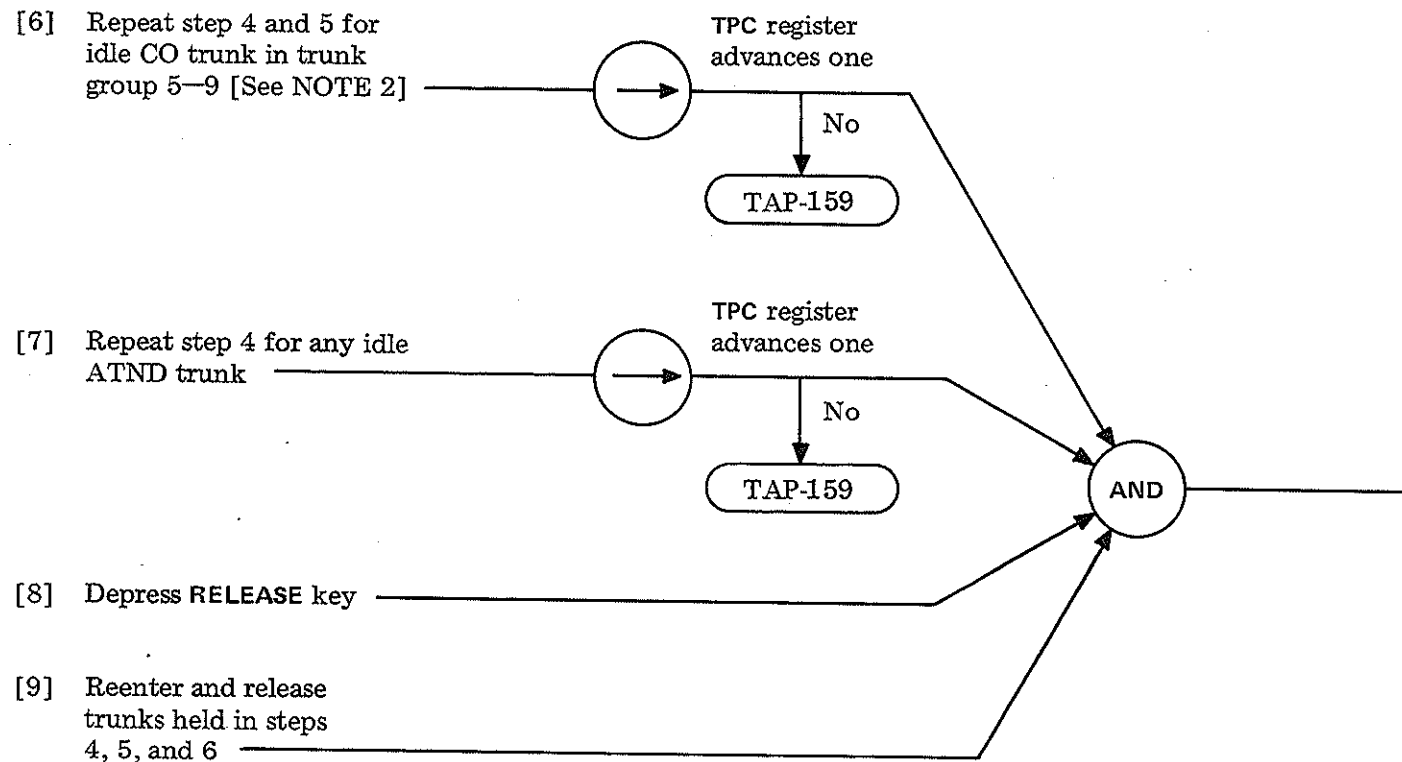
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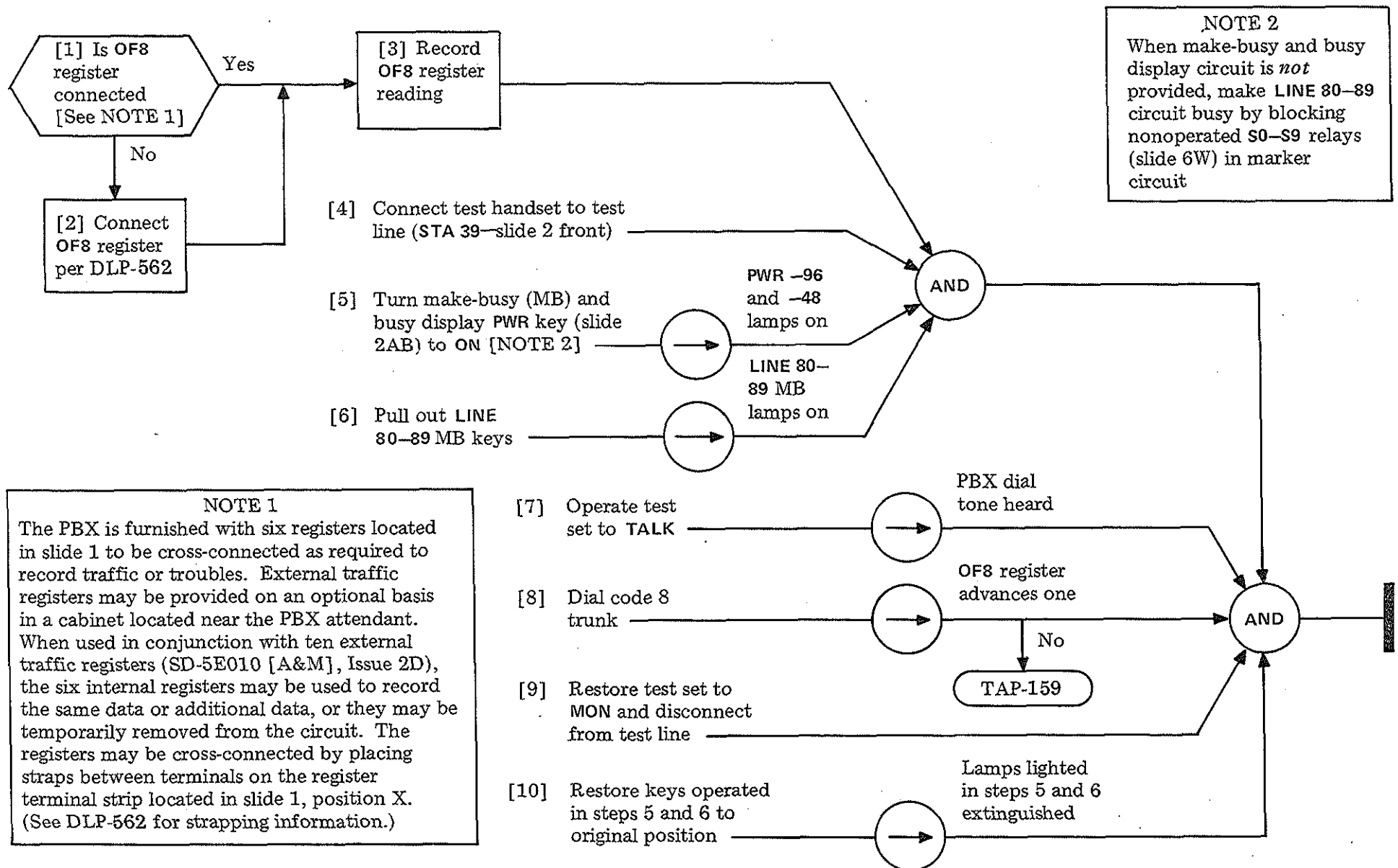
NOTE 2

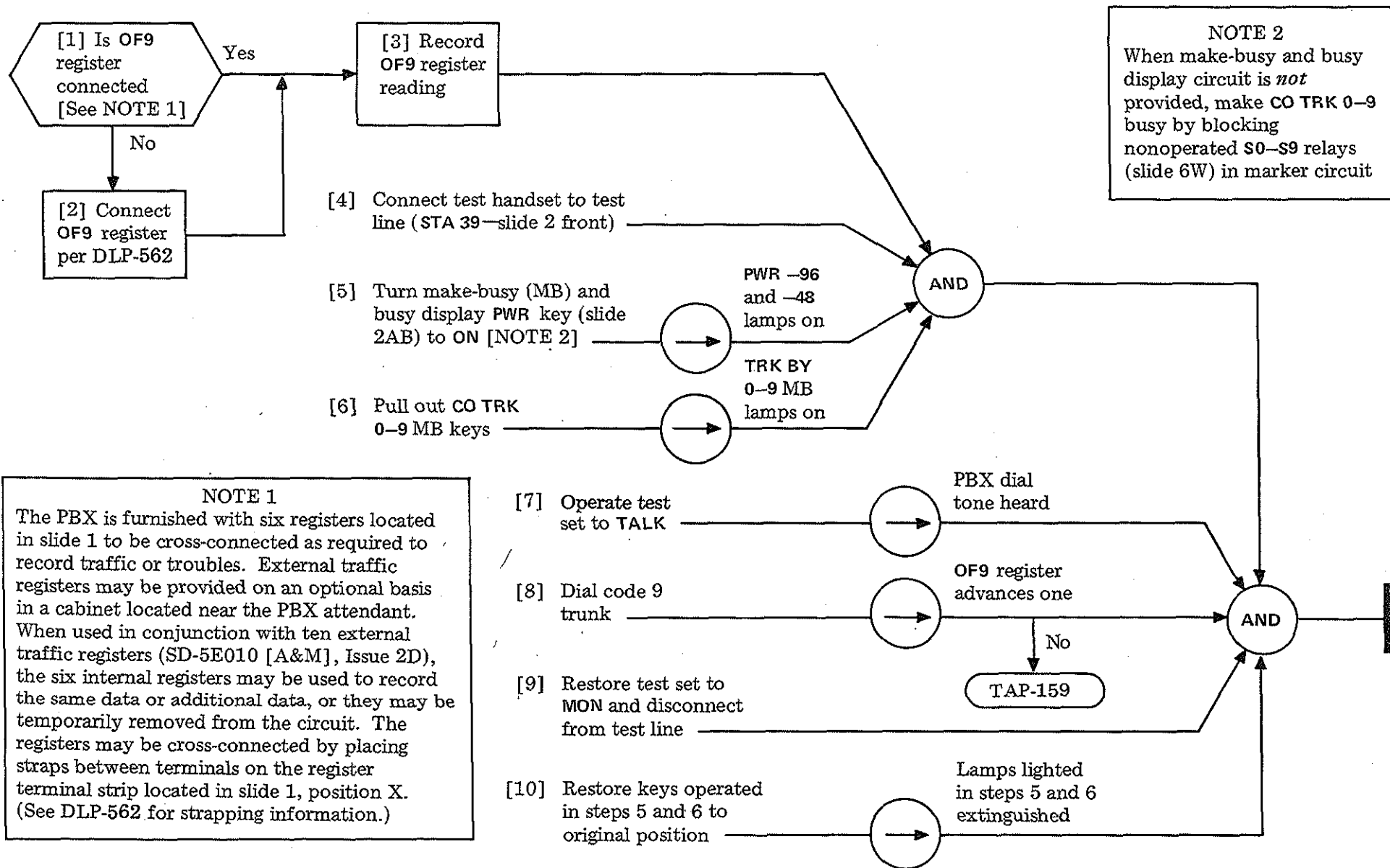
CO trunks are located in cabinet 2, slide 5, and are designated CO TRUNK 0-9 from bottom to top. Refer to local assignment records and select a trunk for step 4 that appears on the console and is connected to any trunk on slide 5 designated 0 through 4. For step 6, select a CO trunk connected to any trunk on slide 5 designated 5 through 9.

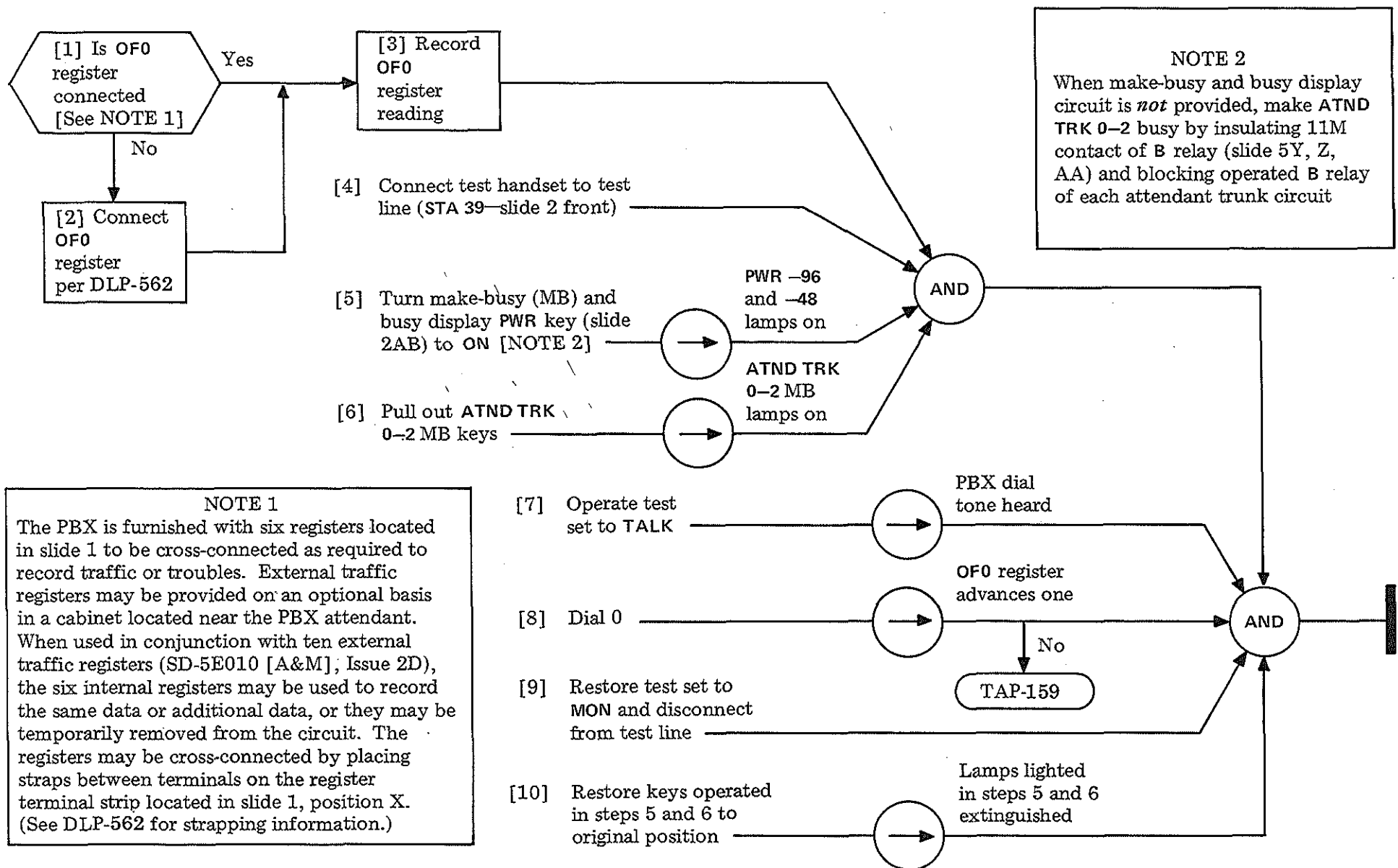
TEST TERMINATING (TRUNKS) PEG COUNT (TPC) REGISTER

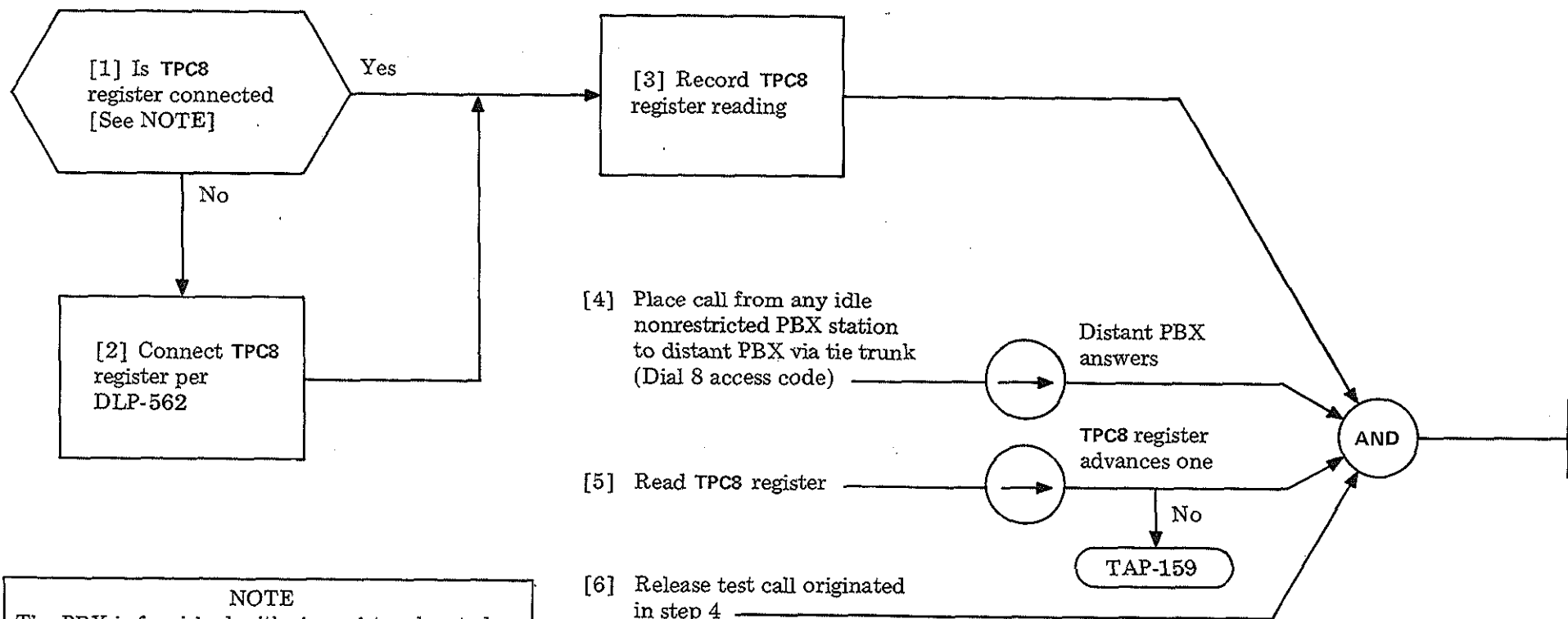
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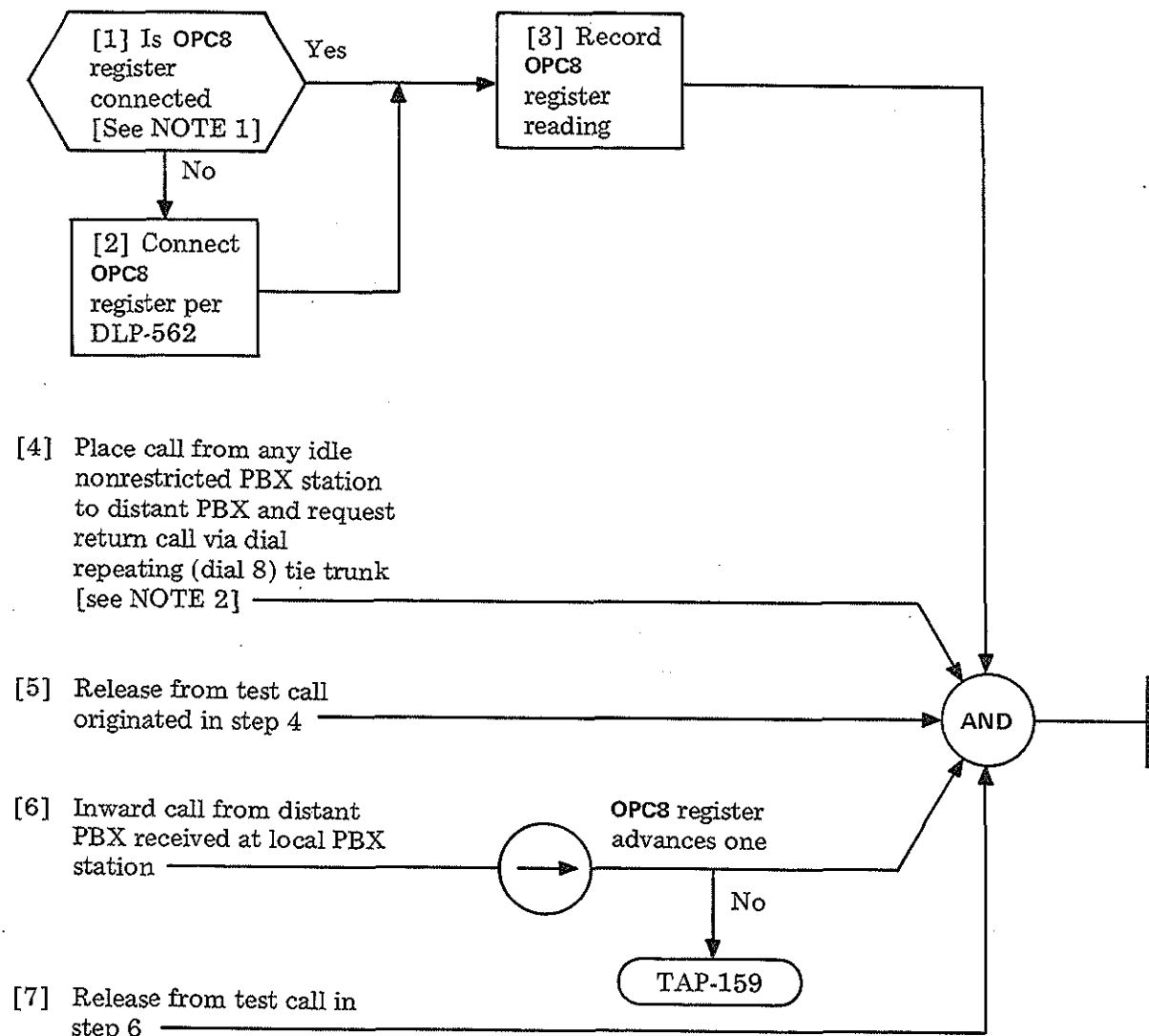


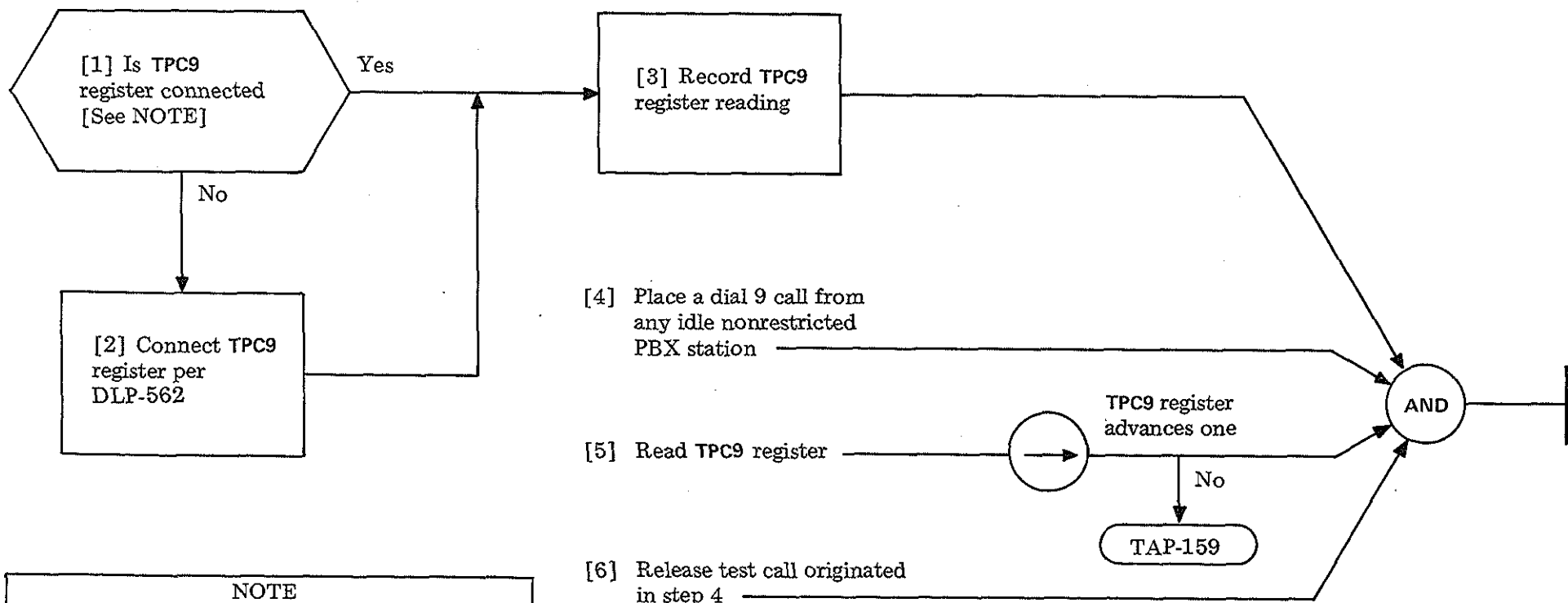
NOTE

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.)

NOTE 1
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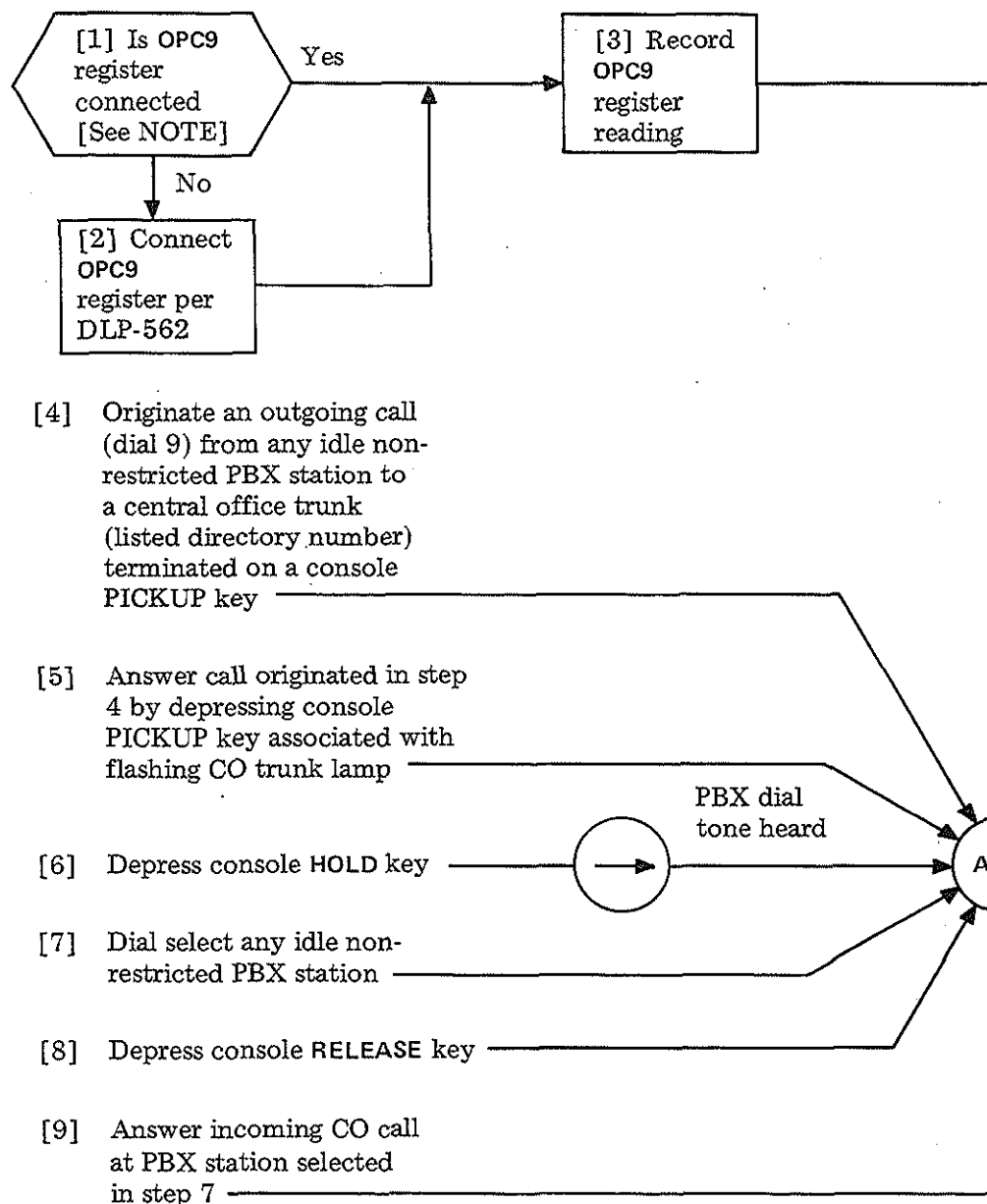
NOTE 2
If test call from distant PBX via dial repeating tie trunk cannot be arranged, test may be performed by going across terminals 1 and 2 (T and R leads) of tie trunk TS with test set in TALK position. This operation will cause OPC8 register to advance one.





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.)

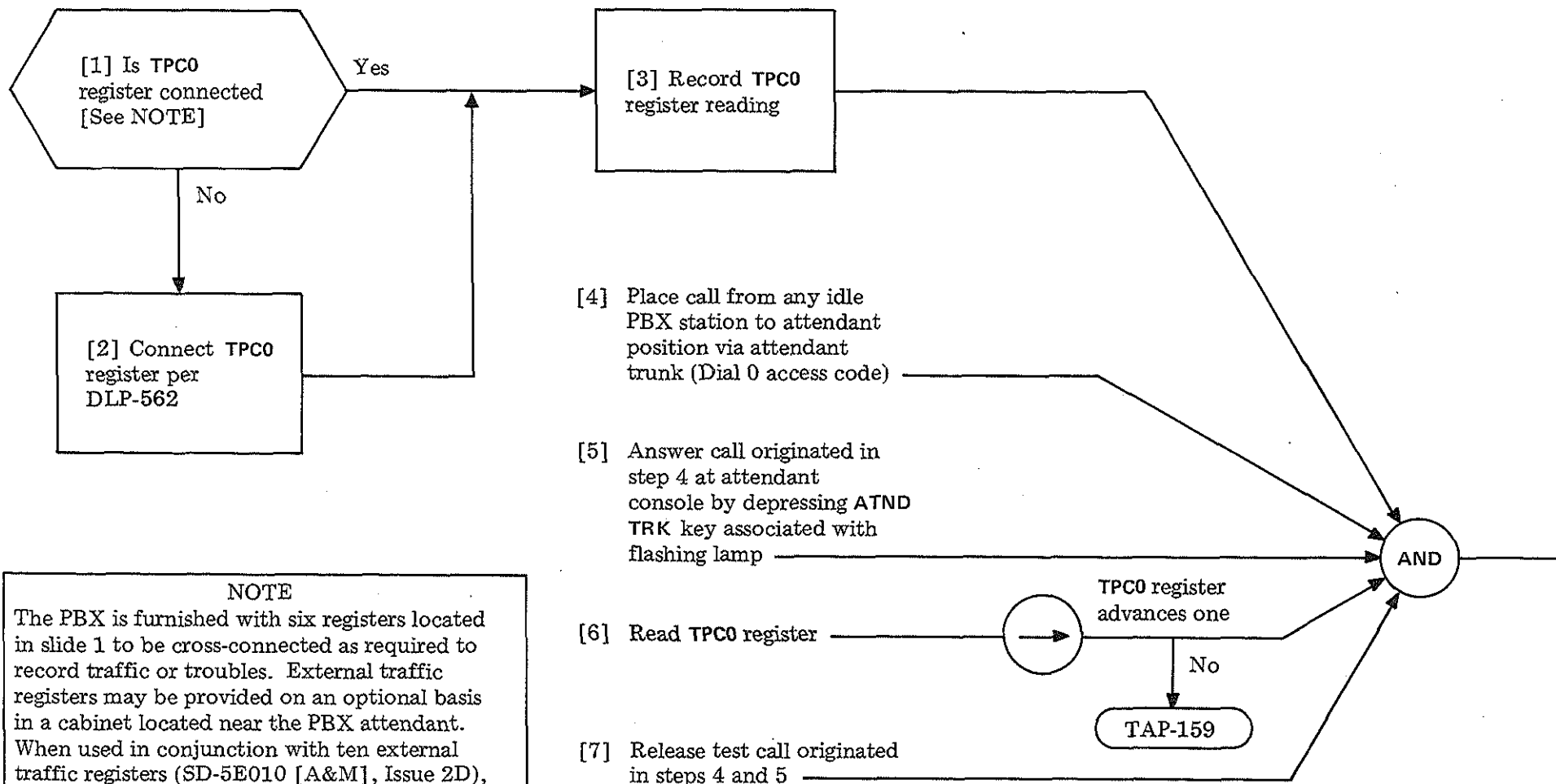


NOTE

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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

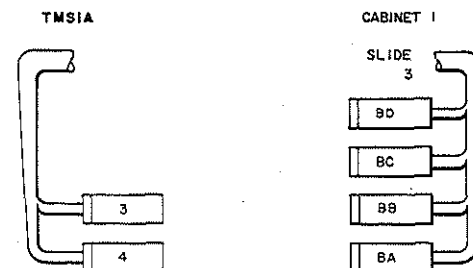


FIG. 1

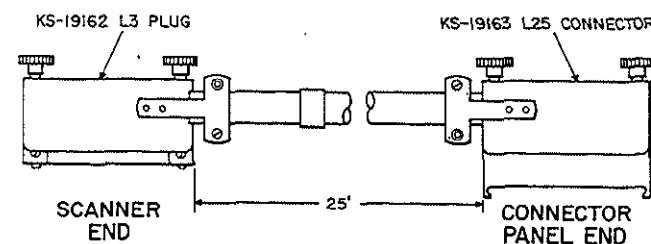


FIG. 2 - P50B Cable

[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

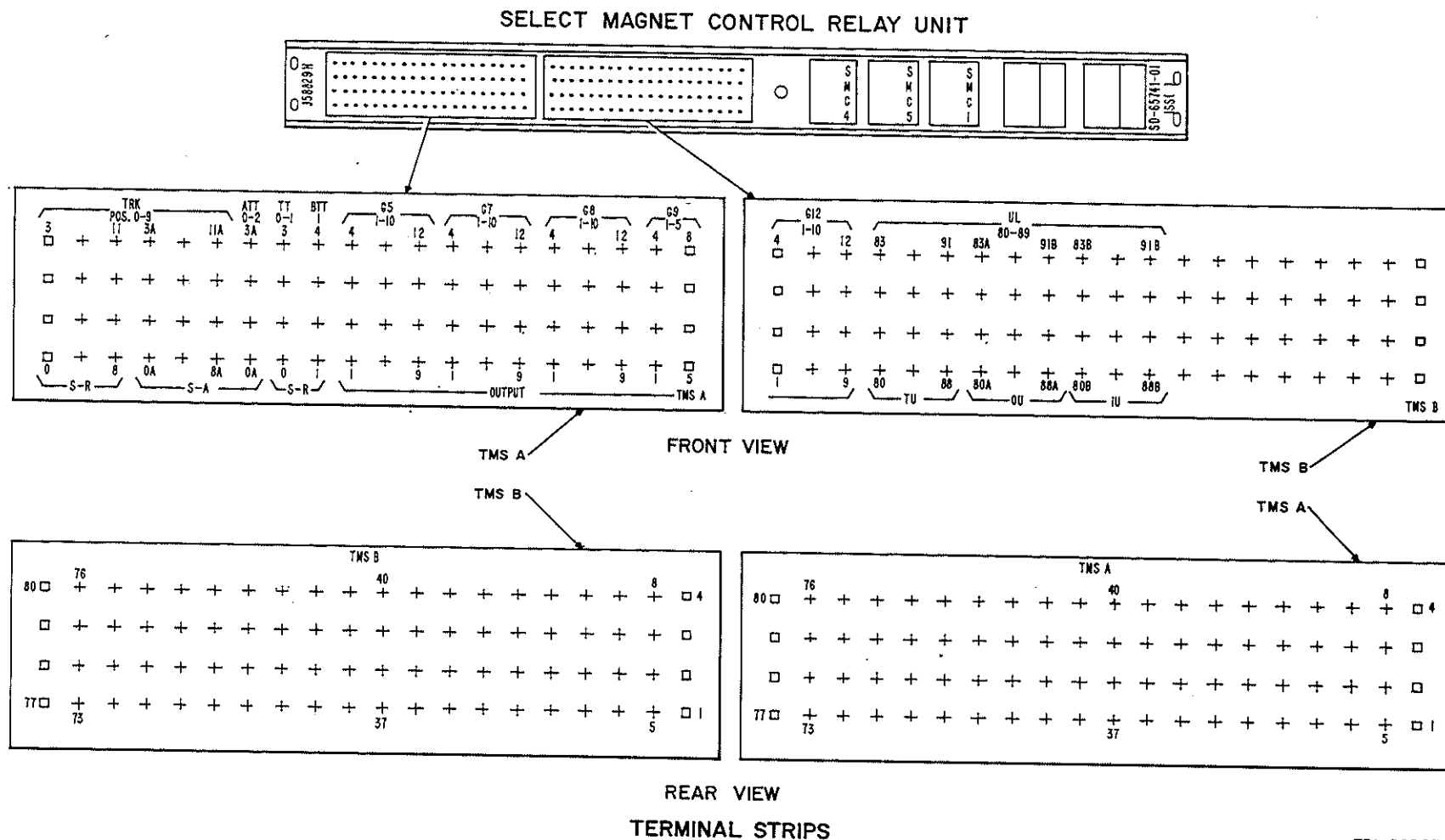
Fill in cross-wire column in TABLE A
with terminal and punching (output TMS
leads), then cross-connect TMS leads from
PBX to scanner according to local
instructions to group output leads
requested. A group can be no less than 5
inputs and each group must contain sepa-
rate circuit inputs (that is, two 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



TPA 562535

FIG. 3 — Cross-Connecting Terminals

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

‡ Outgoing seizure

† Time from seizure to ATND answer

§ Incoming seizure

INSTALL AND TEST TRAFFIC MEASUREMENT SYSTEM (TMS 1A) EQUIPMENT (SD-3B200)

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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

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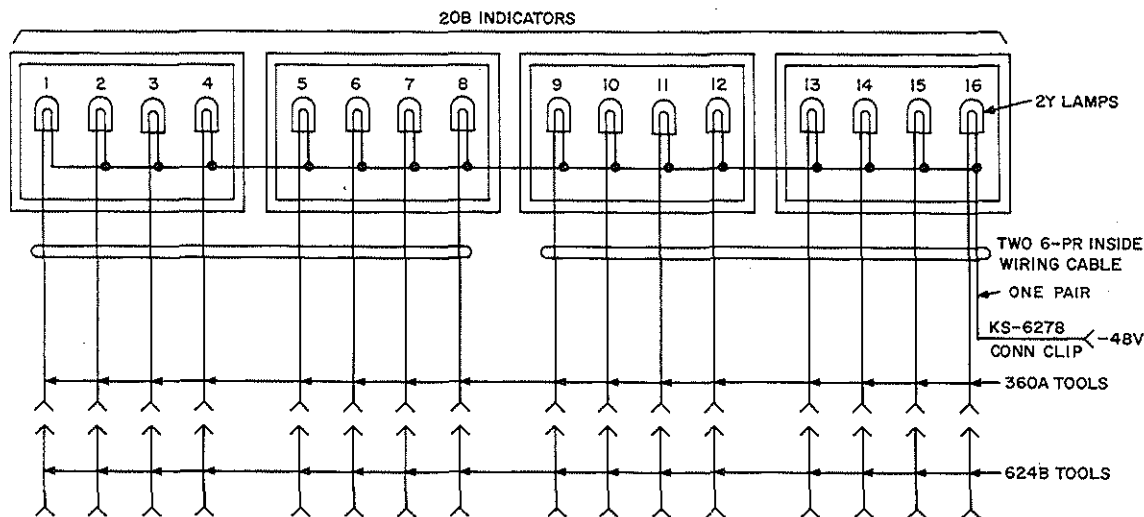


FIG. 1

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

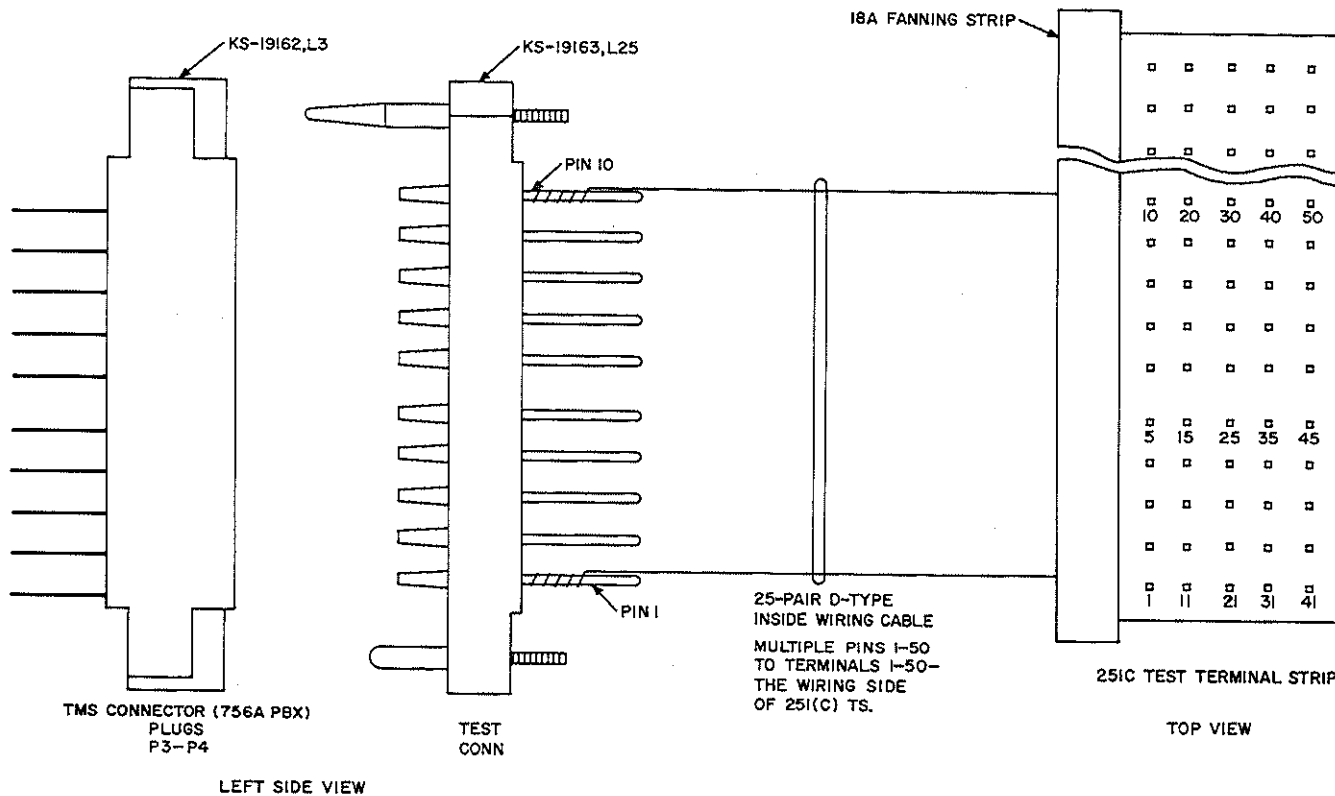


TABLE B	
EQUIPMENT REQUIRED	QUANTITY
Terminal Strip 251C [NOTE 1]	1
Connector KS-19163, L25	1
Fanning Strip 18A	1
Cable, 25-pr, D- inside wiring	10 ft

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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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 volt ohmmeter 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).

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).

TEST ATTENDANT TRUNKS (TRAFFIC USAGE) FOR TMS 1A

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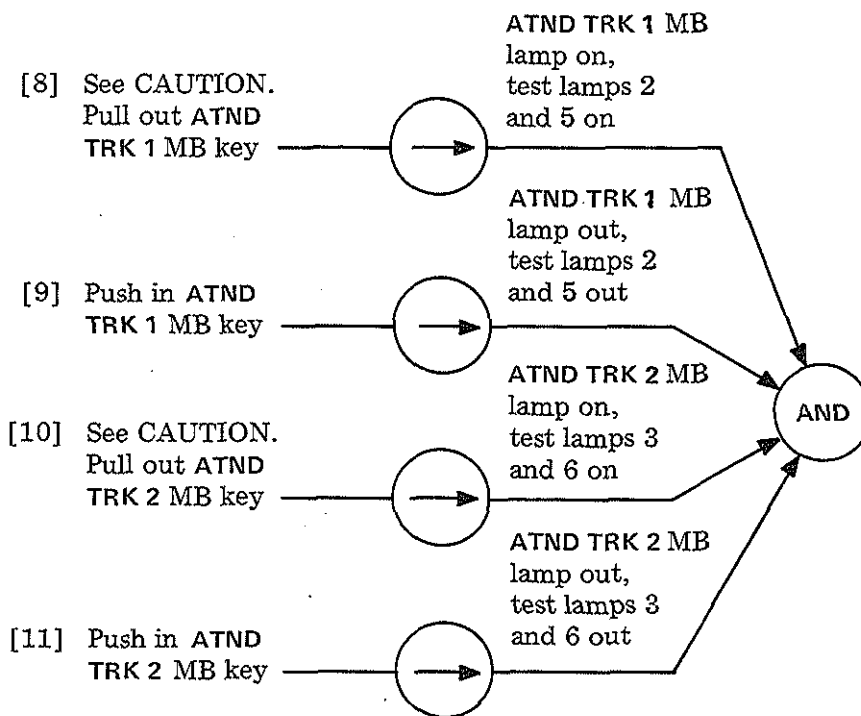
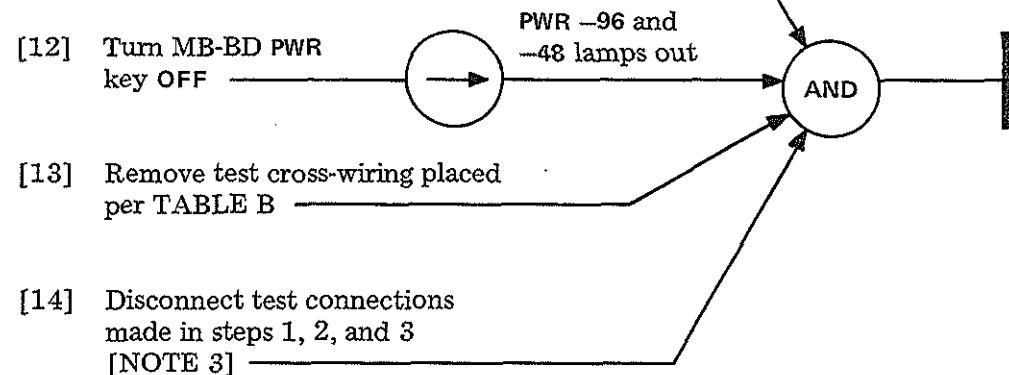


TABLE B			
CROSS-WIRE			
FROM TMS A TERMINAL		TO TMS A TERMINAL	
PCHG	DESIGNATION	PCHG	DESIGNATION
25	S-A 0A (ATT 0)	73	OUTPUT G9-1
26	S-A 1A (ATT 1)	74	OUTPUT G9-2
27	S-A 2A (ATT 2)	75	OUTPUT G9-3

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

AND

Test OK

No

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[6] Turn MB-BD PWR key OFF

PWR -96 and -48 lamps out

AND

[7] Disconnect test connections made in steps 1 and 2 [NOTE 3]

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 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 volt ohmmeter directly on TMS A terminal 33.

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.

[1] Connect test indicator lamp leads on TMS A (slide 3V) per TABLE A [NOTE 1]

[2] Connect KS-6278 connecting clip of lamp indicator to -48V battery on front of slide 2

[3] Make CO TRK 0 busy by blocking SR relay (slide 5) operated

Test lamp 1 on

[4] Insulate R1 relay contacts 1 and 3 of CO TRK 0

Test lamp 6 on

[5] Block R1 relay operated of CO TRK 0

Test lamps 1 and 6 out

[6] Remove blocking and insulating tools from CO TRK 0

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.

Test OK

No

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[7] Repeat steps 3 through 6 for CO TRK 1 through 4 (slide 5)

Lamp indications per TABLE B

Test OK

No

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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 PCHG
		ON	OUT	
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

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[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)

[10] Disconnect test connections made in steps 2 and 8 [NOTE 2]

Test lamp indications per TABLE D

AND

Test OK

No

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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 PCHG
		ON	OUT	
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

PWR -96 and -48 lamps on

JCTR 0 MB lamp on, test lamp 1 on

JCTR 0 MB lamp out, test lamp 1 out

AND

Test OK

No

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Page 2

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).

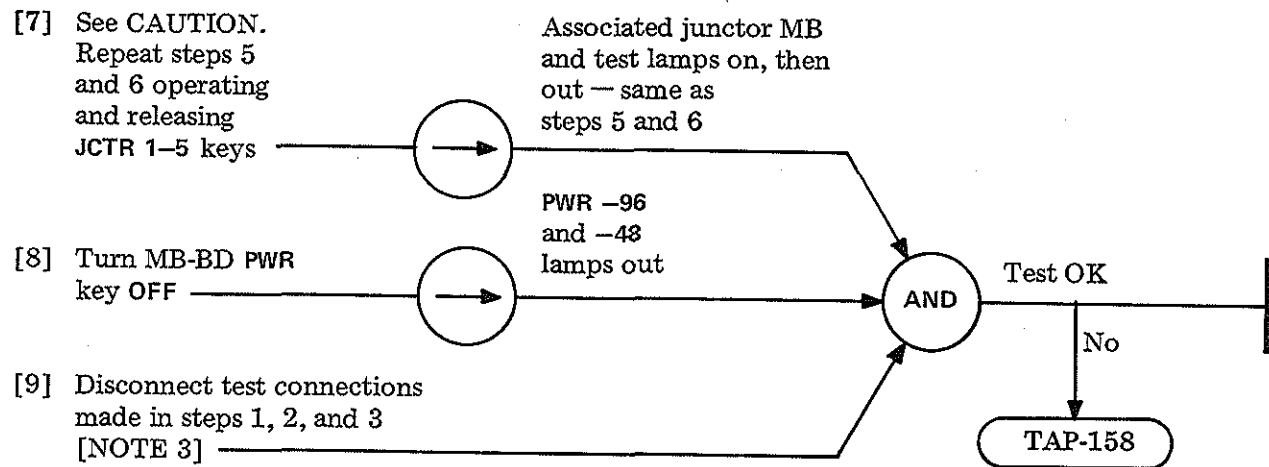
TABLE A

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)

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 volt ohmmeter 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]

PWR -96 and -48 lamps on

[5] See CAUTION. Pull out LINK 02 MB key

LINK 02 MB lamp on, test lamp 1 on

[6] Push in LINK 02 MB key

LINK 02 MB lamp out, test lamp 1 out

AND

Test OK

No

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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 volt ohmmeter 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).

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.

CAUTION
LINK lamps should be out before operating LINK MB keys

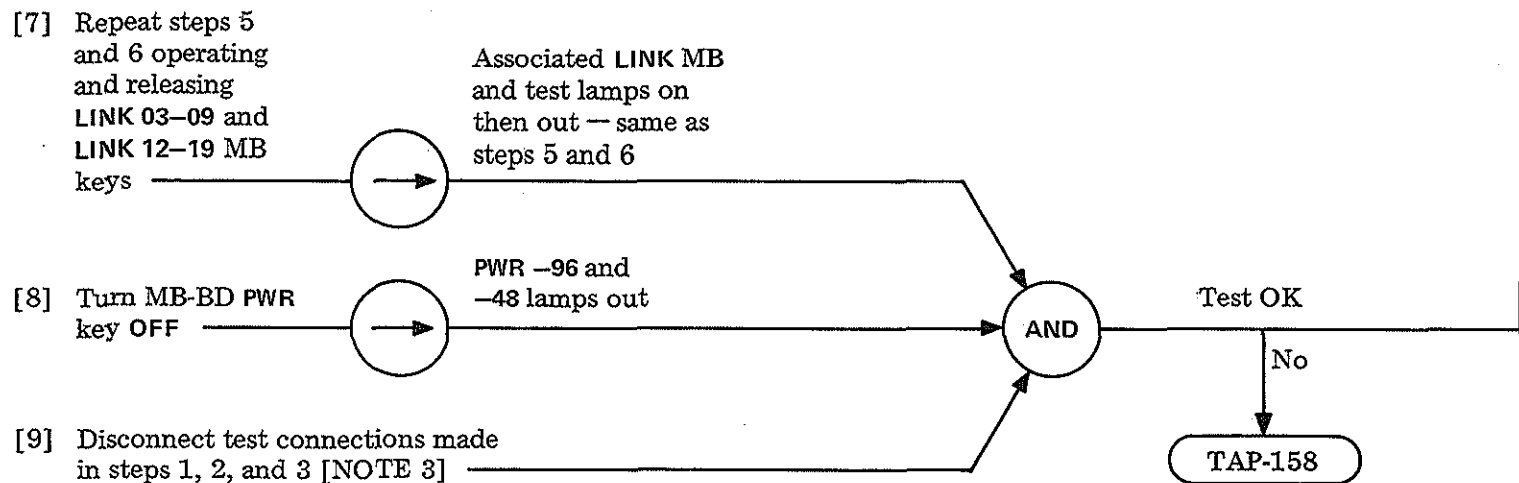
TEST LINKS (TRAFFIC USAGE) FOR TMS 1A

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TABLE A					
CONNECT					
FROM	TO TEST TERMINAL		FROM	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



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)

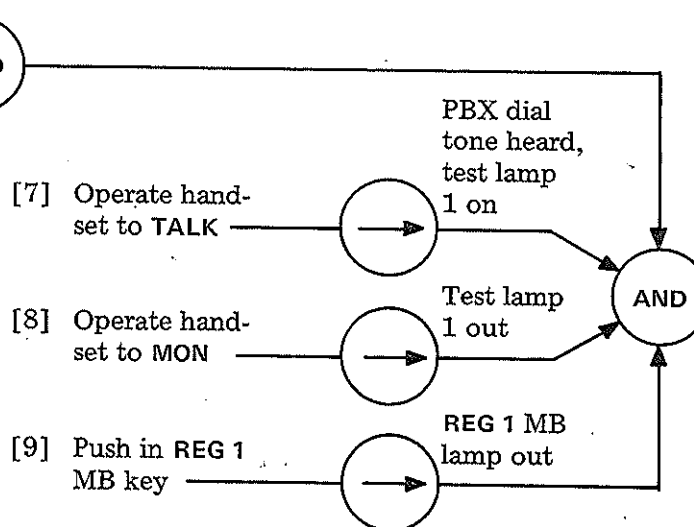
[5] Turn make-busy and busy-display (MB-BD) PWR key ON [NOTE 2]

[6] See CAUTION. Pull out REG 1 MB key

PWR -96 and -48 lamps on

REG 1 MB lamp on

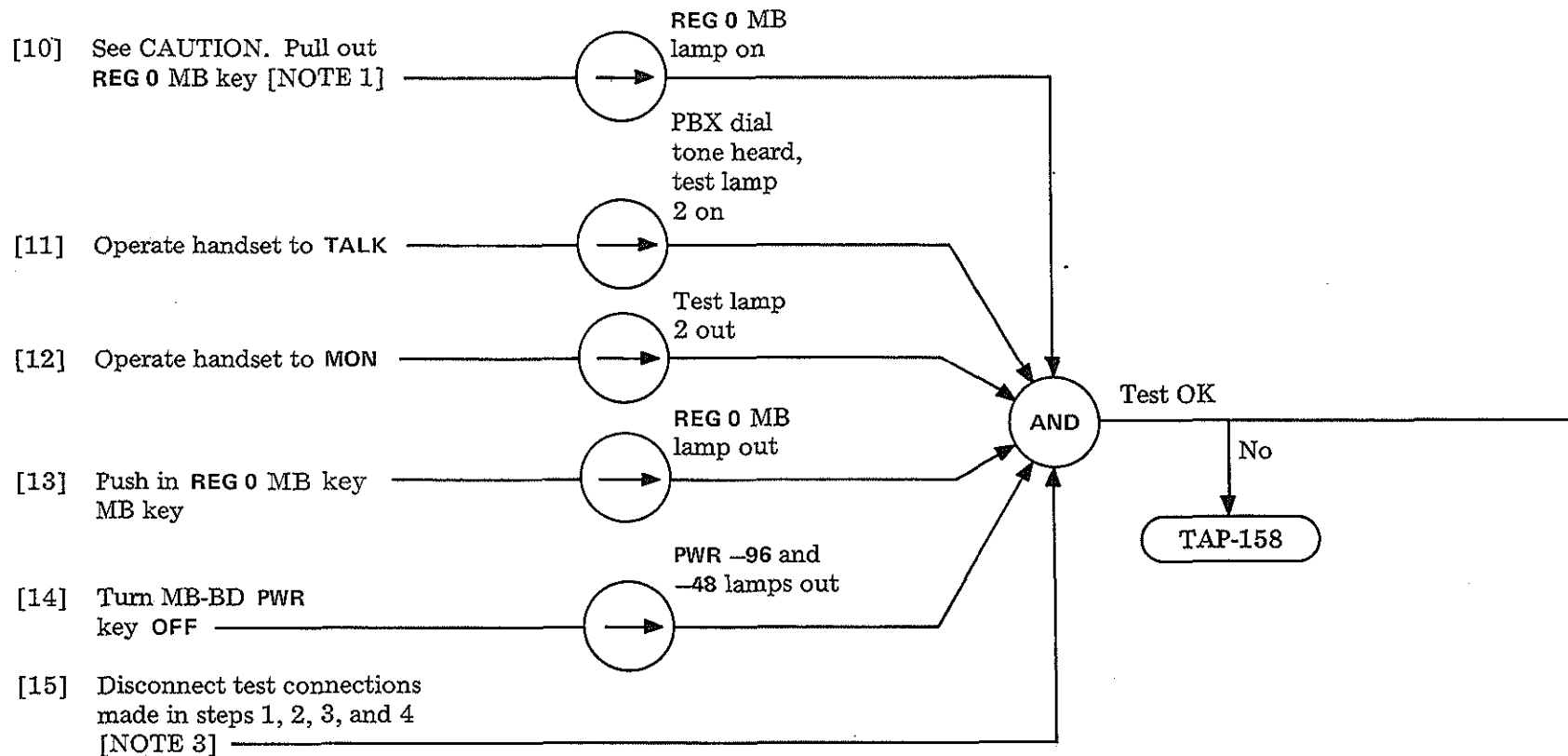
NOTE 1
For simplicity, this test is arranged to employ a test adapter and lamp indicator to be built locally as illustrated in DLP-581. If this test equipment is not available, proceed from step 1 to step 4. Instead of test lamp indications in steps 7 and 8, the presence or absence of ground, respectively, may be verified with a test receiver or volt ohmmeter 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).



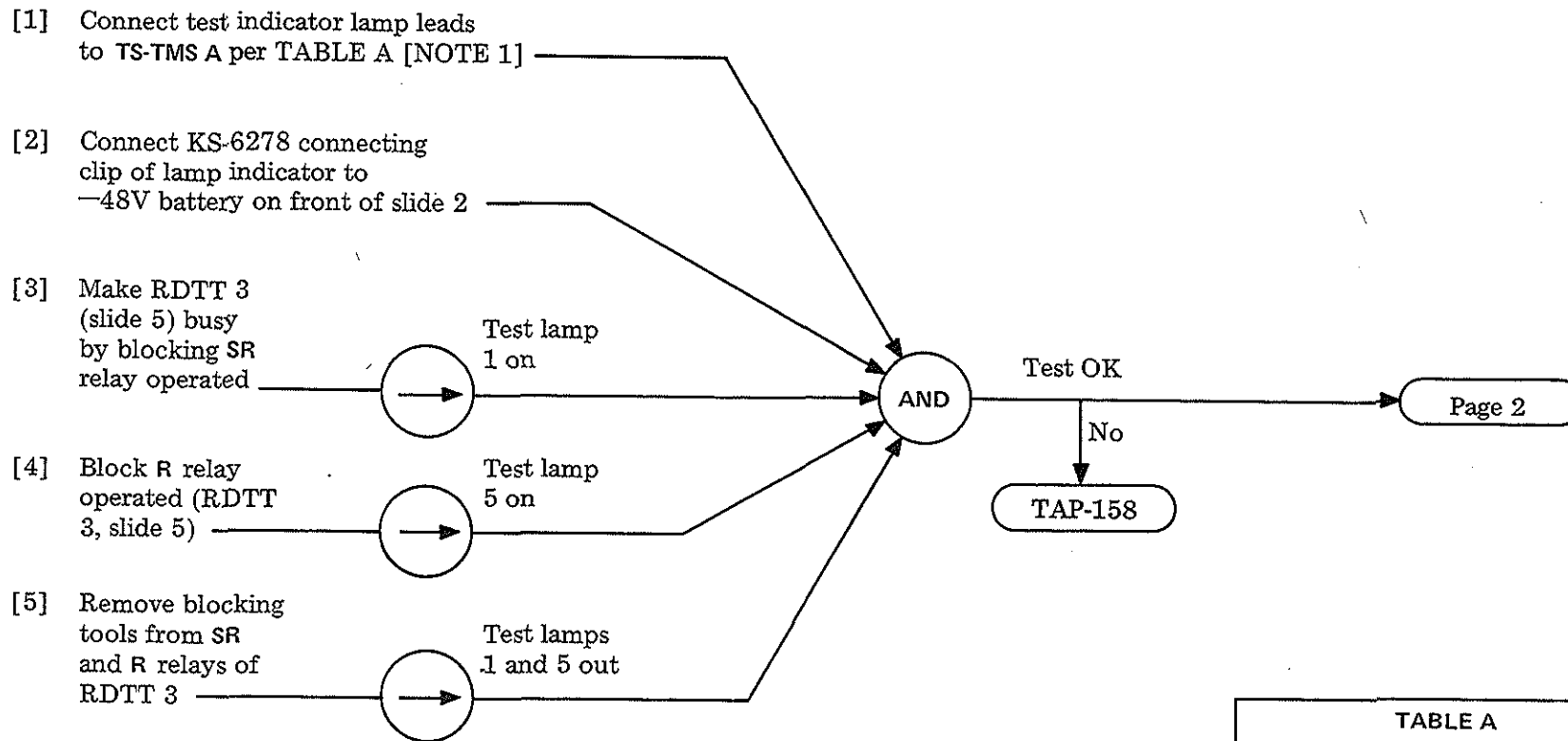
CAUTION
Do not make register busy if it is in use

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]



NOTE 3
Do not remove test equipment until the test setup for the next test has been determined



NOTE 1

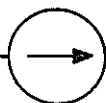
For simplicity, this test is arranged to employ a test adapter and lamp indicator to be built locally as illustrated in DLP-581. If this test equipment is not available, proceed from step 1 to step 3. Instead of test lamp indications in steps 3, 4, and 5, the presence or absence of ground may be verified 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]

Test lamp indications per TABLE B



Test OK

No

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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

[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

Test lamp 2 on

[6] Remove blocking tools from SDT 1 (cabinet 3)

Test lamp 2 out

AND

Test OK

No

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[7] Disconnect test connections made in steps 1 and 2 [NOTE 2]

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

TABLE A

CONNECT

FROM	TO TS-TMS A	
LAMP NO.	PCHG	DESIGNATION
1	29	S-R 0 (TT)
2	30	S-R 1 (TT)

[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

PBX dial tone heard

Test lamps 1 and 6 on per TABLE B

Test lamps 1 and 6 out

AND

Test OK

Page 2

No

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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 volttohmmeter 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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[7] Repeat steps 4 through 6 using access codes 81 through 84

[8] Make arrangements to test UL circuits 80-84 for incoming calls from far end [NOTE 2]

Test lamp indications per TABLE B

No

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Lamp indications per TABLE B

TAP-158

AND

Page 3

NOTE 2

Incoming calls from tie trunks must be originated from a far end source (attendant, PBX station, etc)

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

[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

PBX dial tone heard

Test lamps 1 and 6 on per TABLE D

Test lamps 1 and 6 out

AND

Test OK

No

TAP-158

[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]

AND

NOTE 3
Do not remove test equipment until the test setup for the next test has been determined

TABLE C

CONNECT

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

TEST UNIVERSAL LINE CIRCUITS (TRAFFIC USAGE) FOR TMS 1A

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[1] Provide tools listed in TABLE A

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

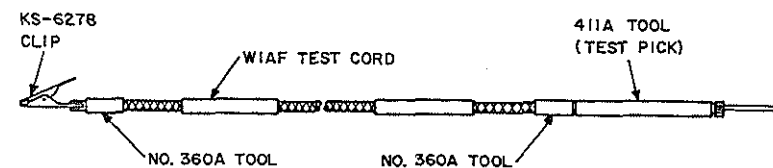


FIG. 1

[2] Is test circuit SD-66796 or SD-65743

SD-66796

SD-65743

Page 3

[4] At slide 1, mounting plate Y (1Y), locate TR, FA, PA, and EXT lamps

[5] At console, locate TR lamp

[6] Read NOTE 1 for expected lamp indications

[3] At front of slide 2, connect KS-6278 clip of W1AF cord [FIG. 1] to -48V BAT

Test preparations complete

AND

AND

Page 2

[7] At 1Z, connect 411A test pick to alarm terminal of FA fuse. See NOTE 2

See NOTES 1 and 3. FA lamp lights

[8] At 1X, connect test pick to 2U winding of RB relay

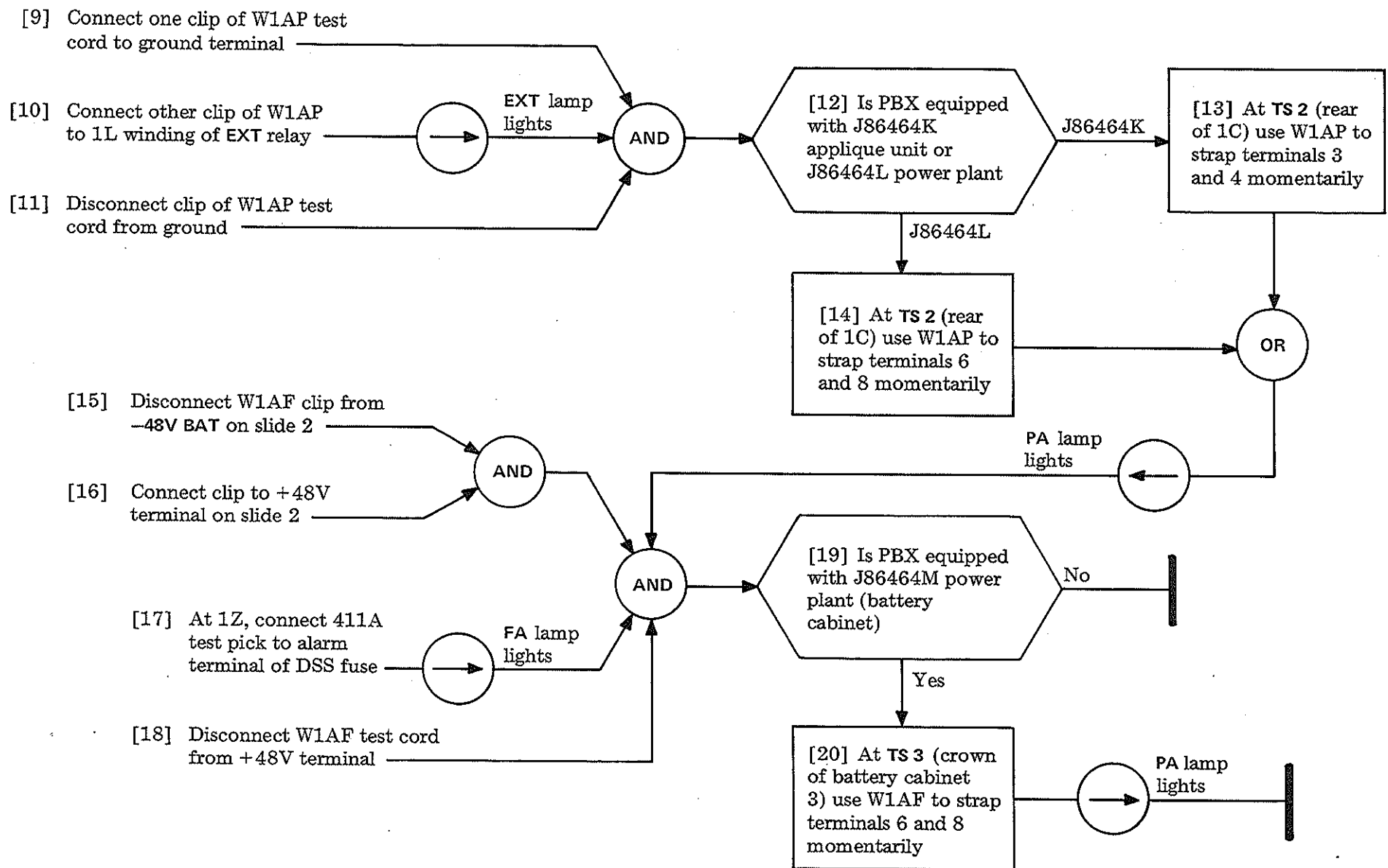
PA lamp lights

NOTES

1. 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
2. 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
3. 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

Test preparation
completed

AND

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.

[25] At 1Y, connect 411A test
pick to alarm terminal
of FA fuse. See NOTE 5

See NOTE 6.
FAB lamp
lights

[26] At 1Z, connect test pick to
alarm terminal of CO fuse

FAA lamp
lights

[27] At 1N, connect test pick to
alarm terminal of B fuse

PA, FA1
lamps light

[28] At 1N, connect test pick to
alarm terminal of A fuse

PA, FA1
lamps light

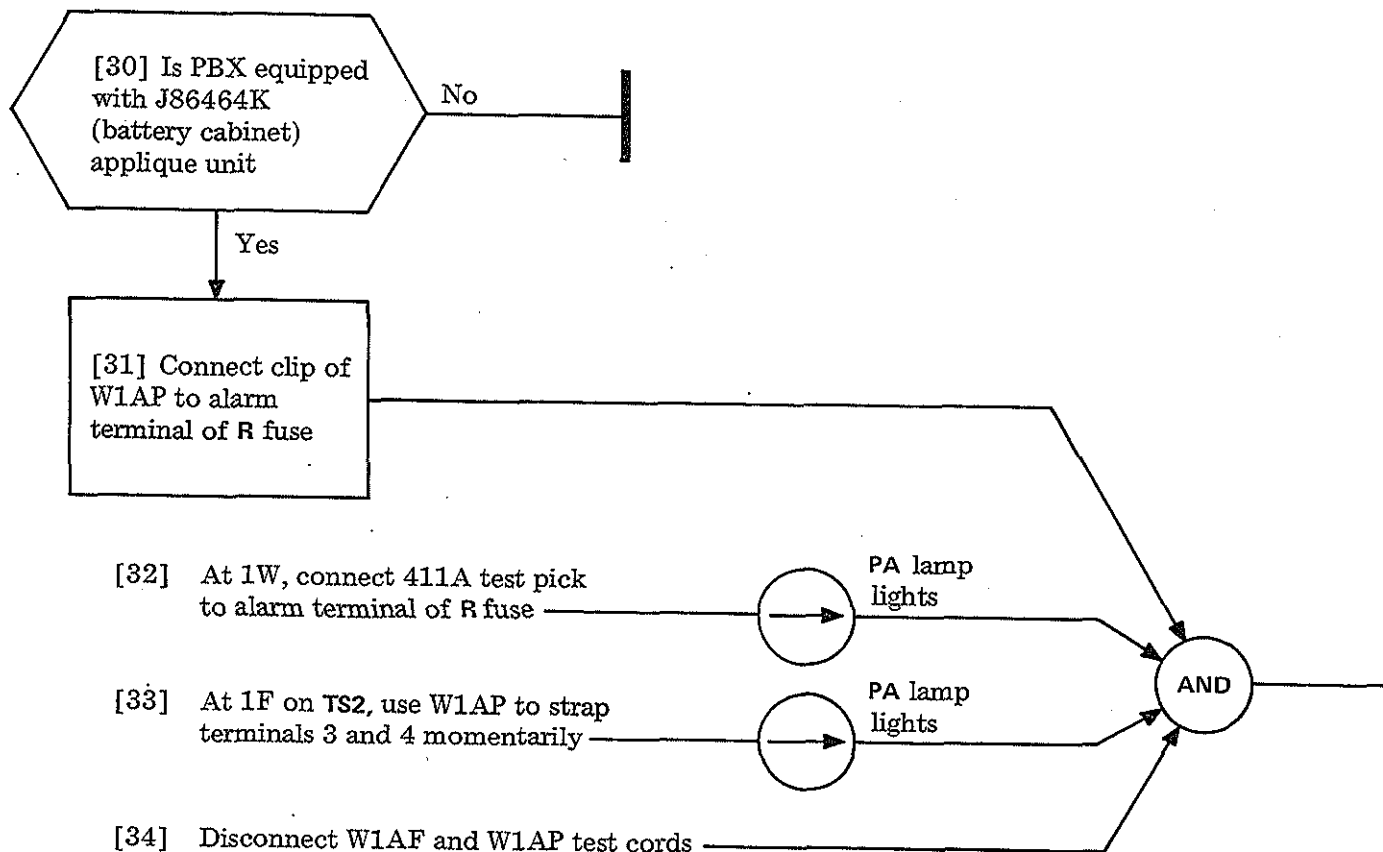
[29] Disconnect W1AF test cord
from -48V BAT

AND

Page 4

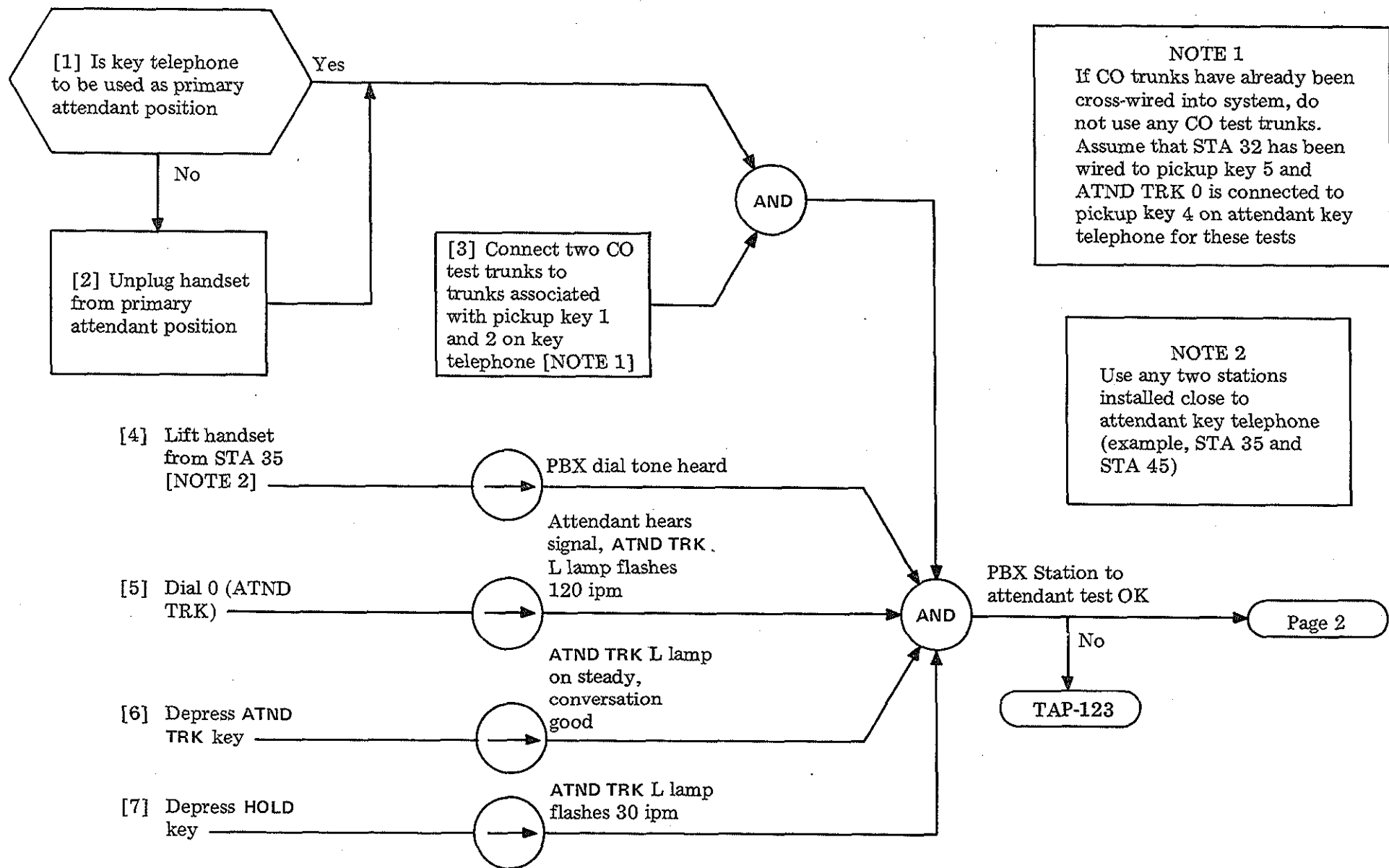
TEST FUSE ALARMS

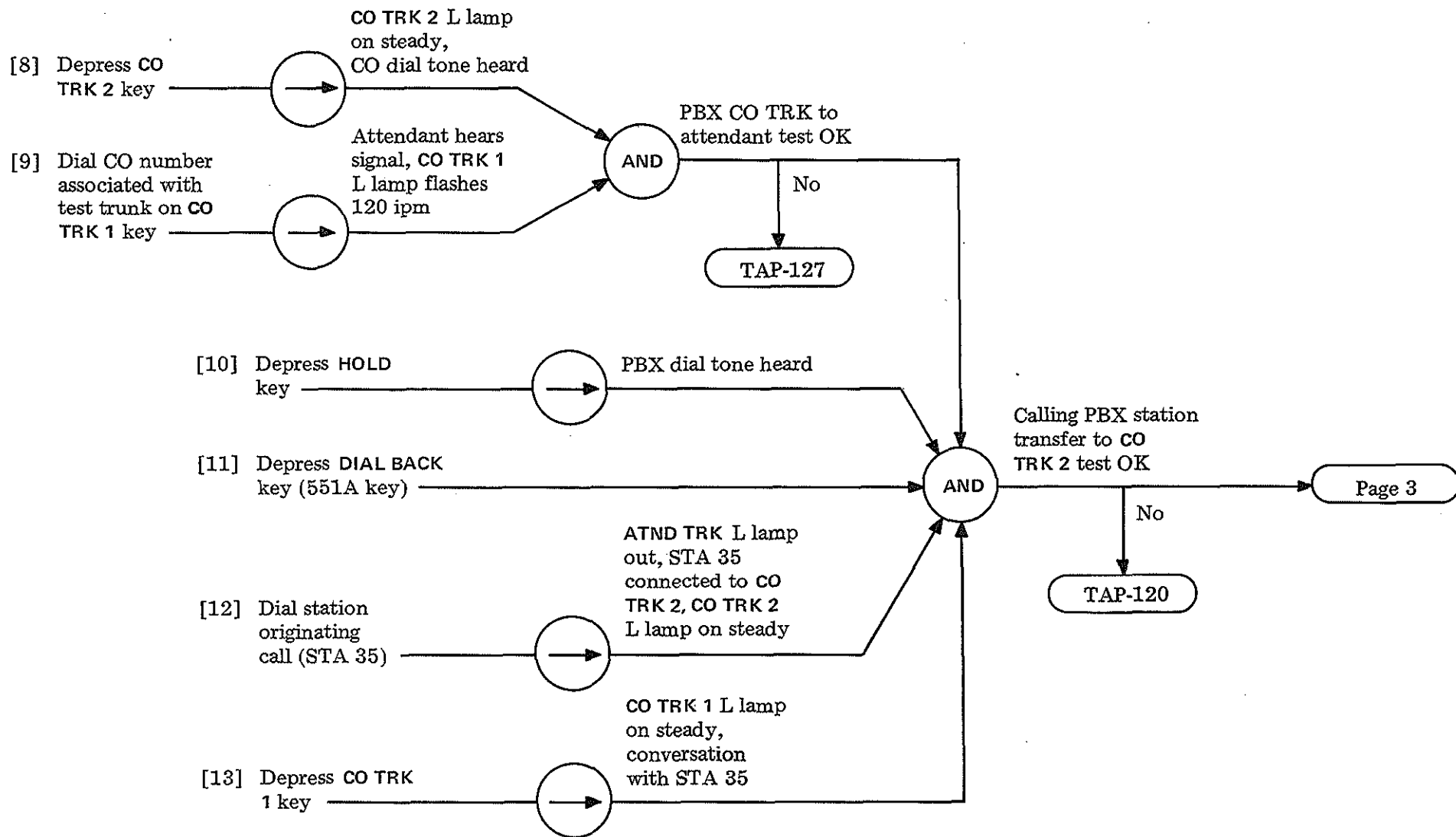
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TEST FUSE ALARMS

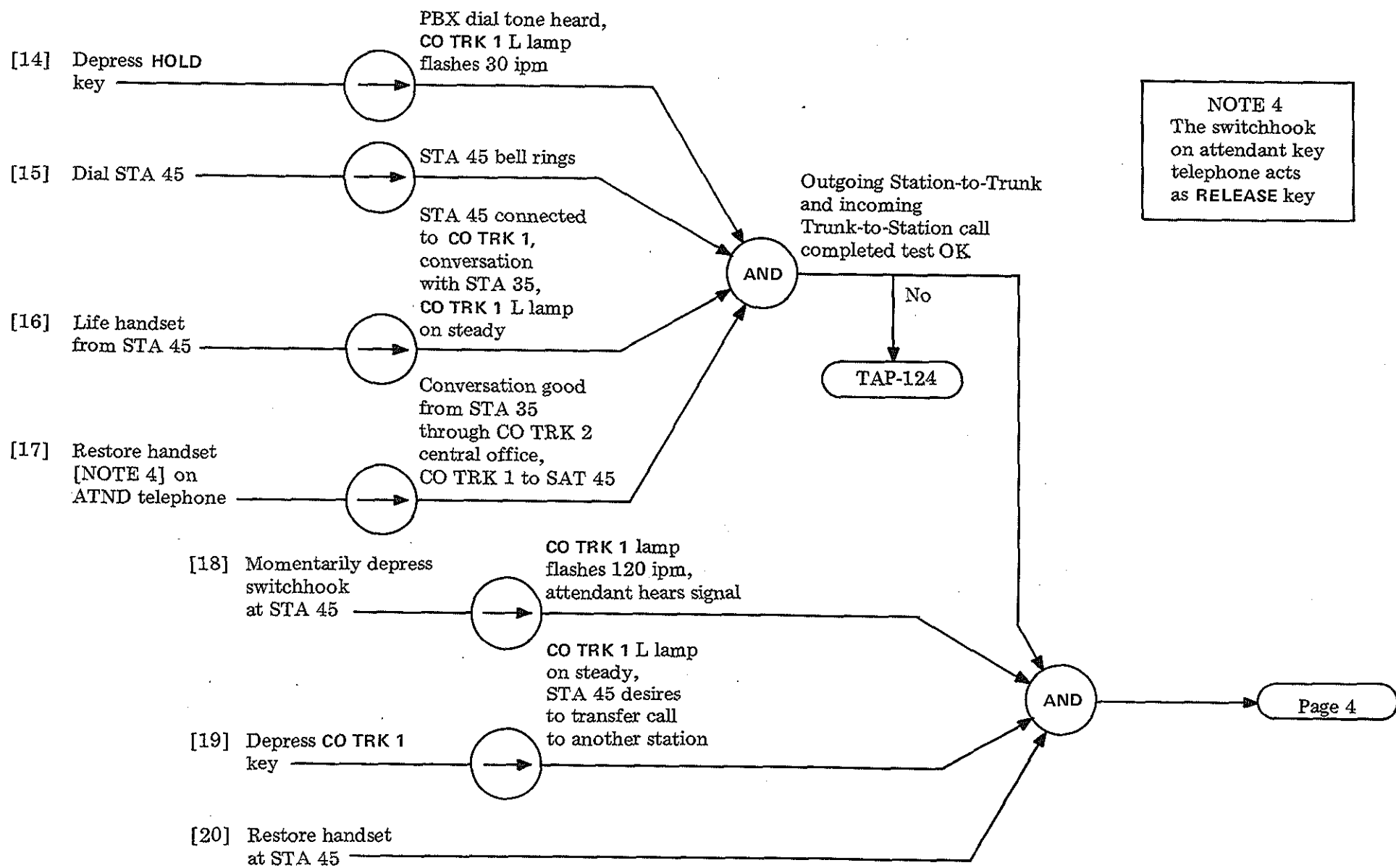
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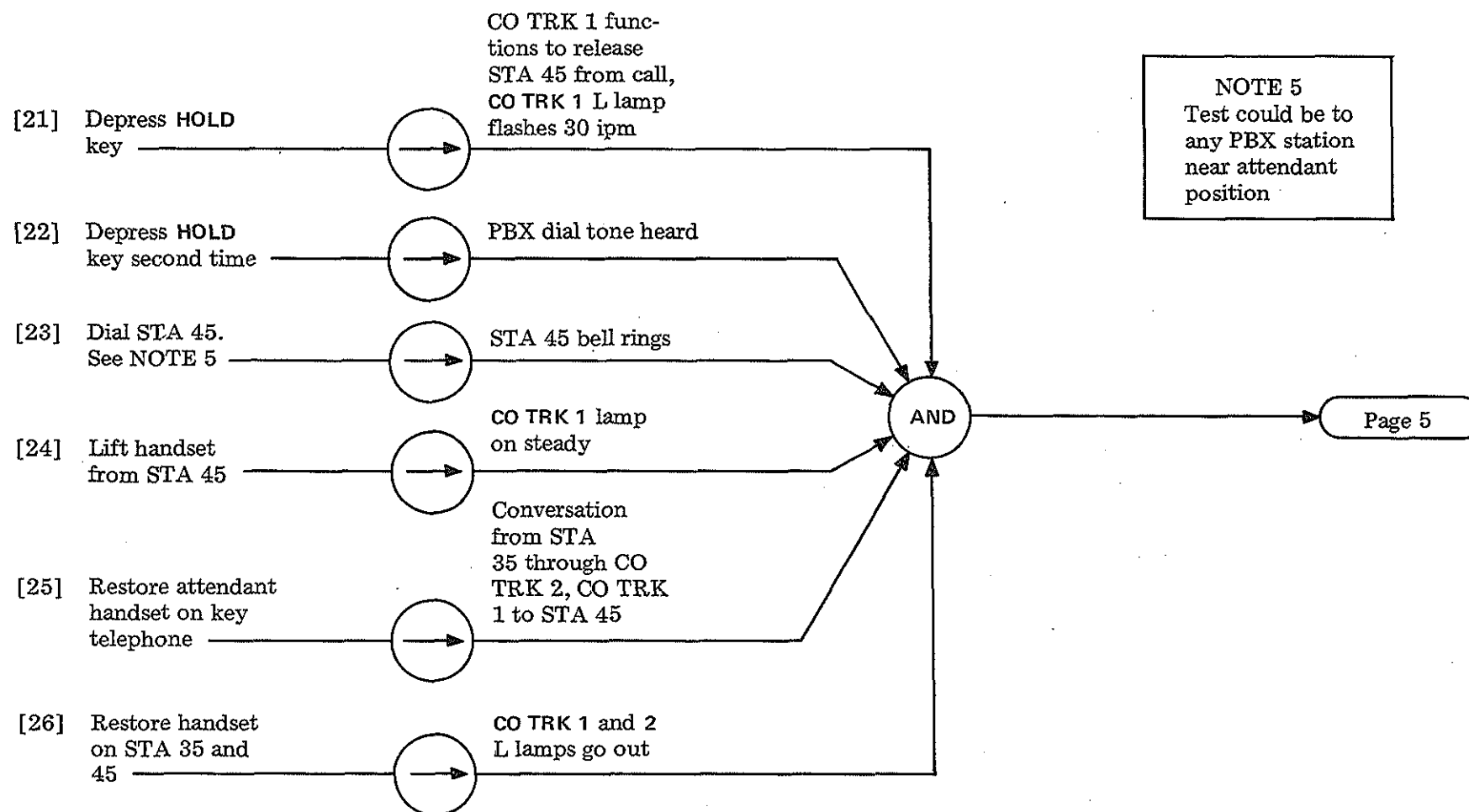


TEST ATTENDANT KEY TELEPHONE (6-BUTTON) SET

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NOTE 4
The switchhook on attendant key telephone acts as RELEASE key



[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

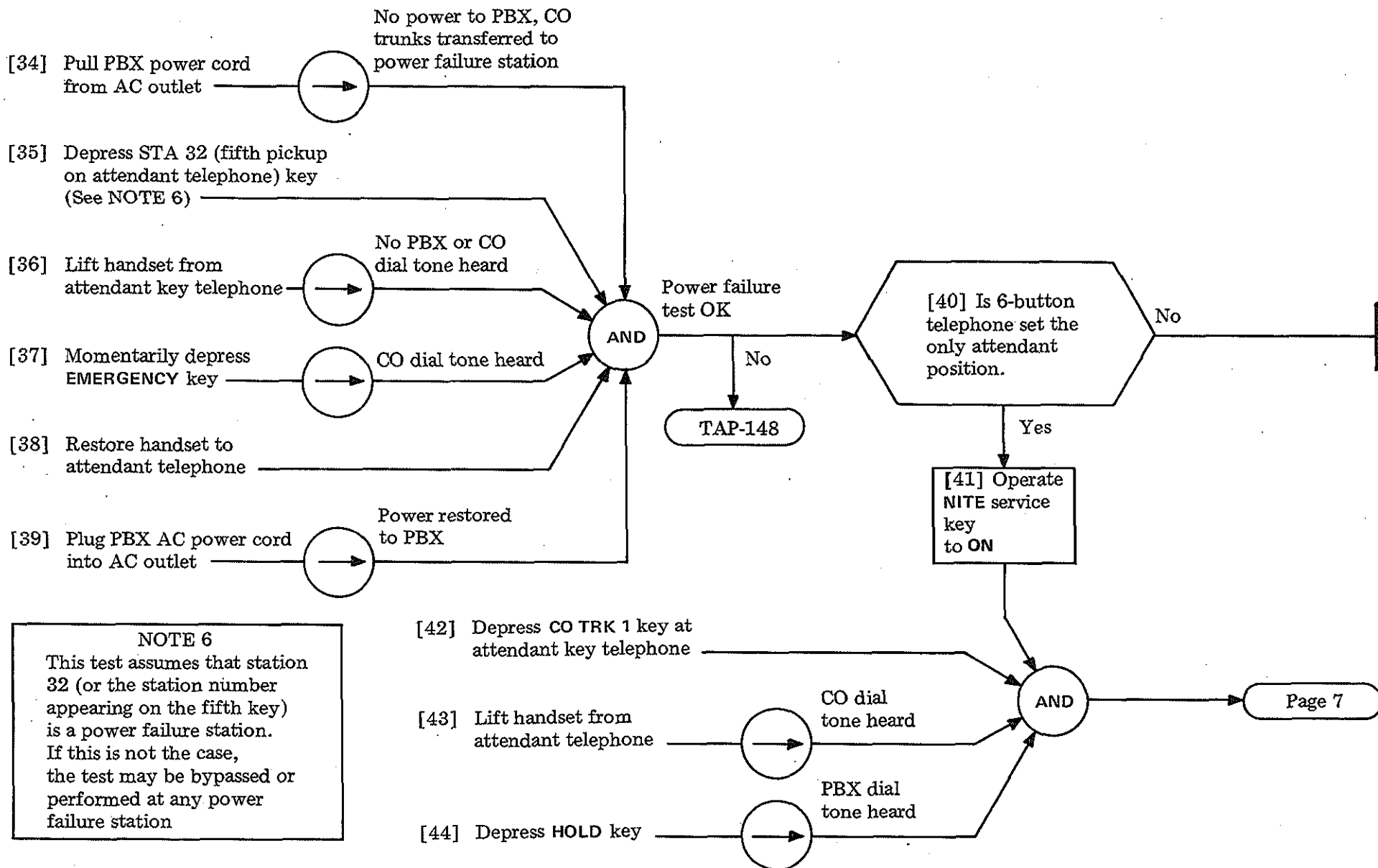
No

TAP-125

Page 6

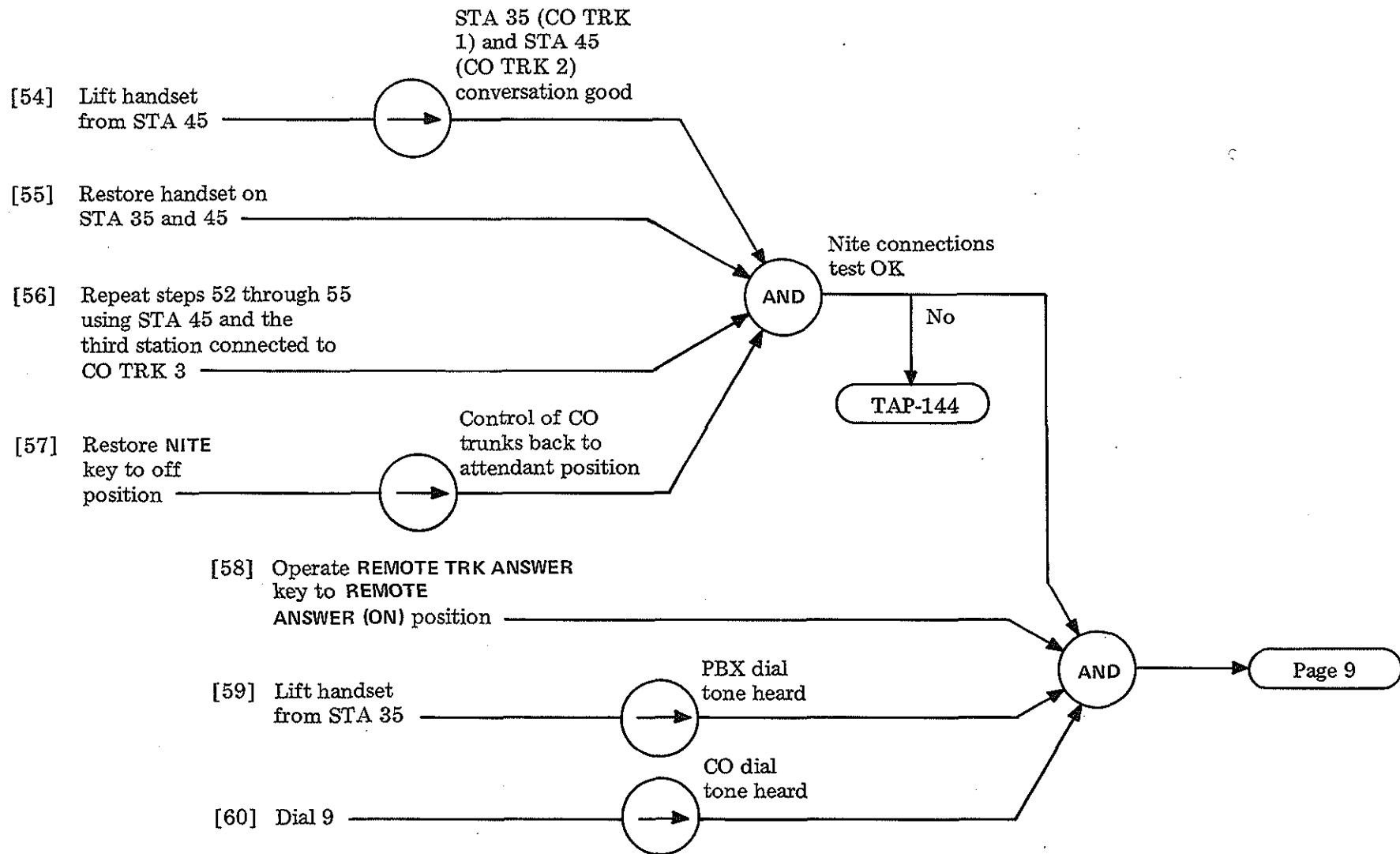
TEST ATTENDANT KEY TELEPHONE (6-BUTTON) SET

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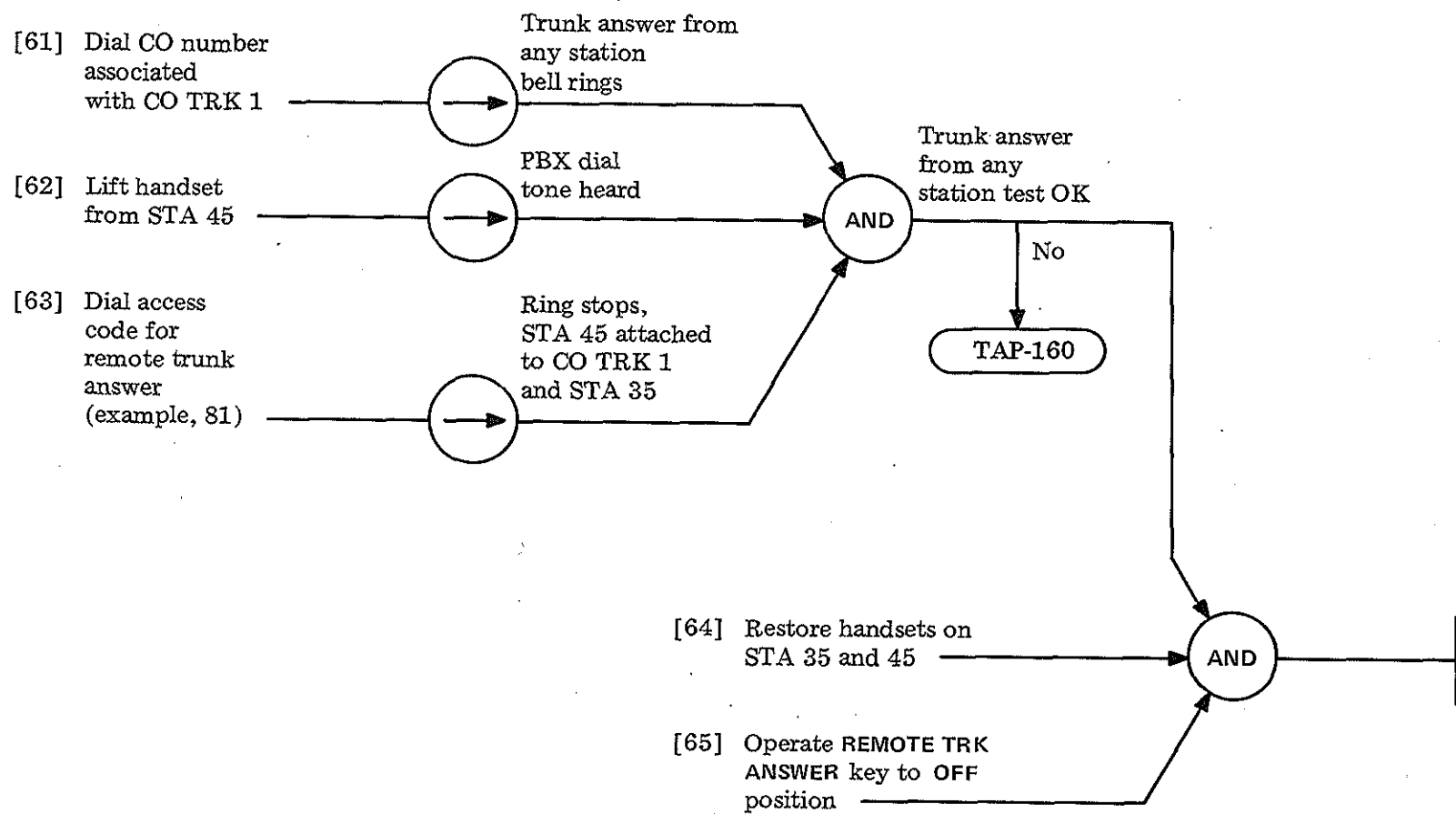
TEST ATTENDANT KEY TELEPHONE (6-BUTTON) SET

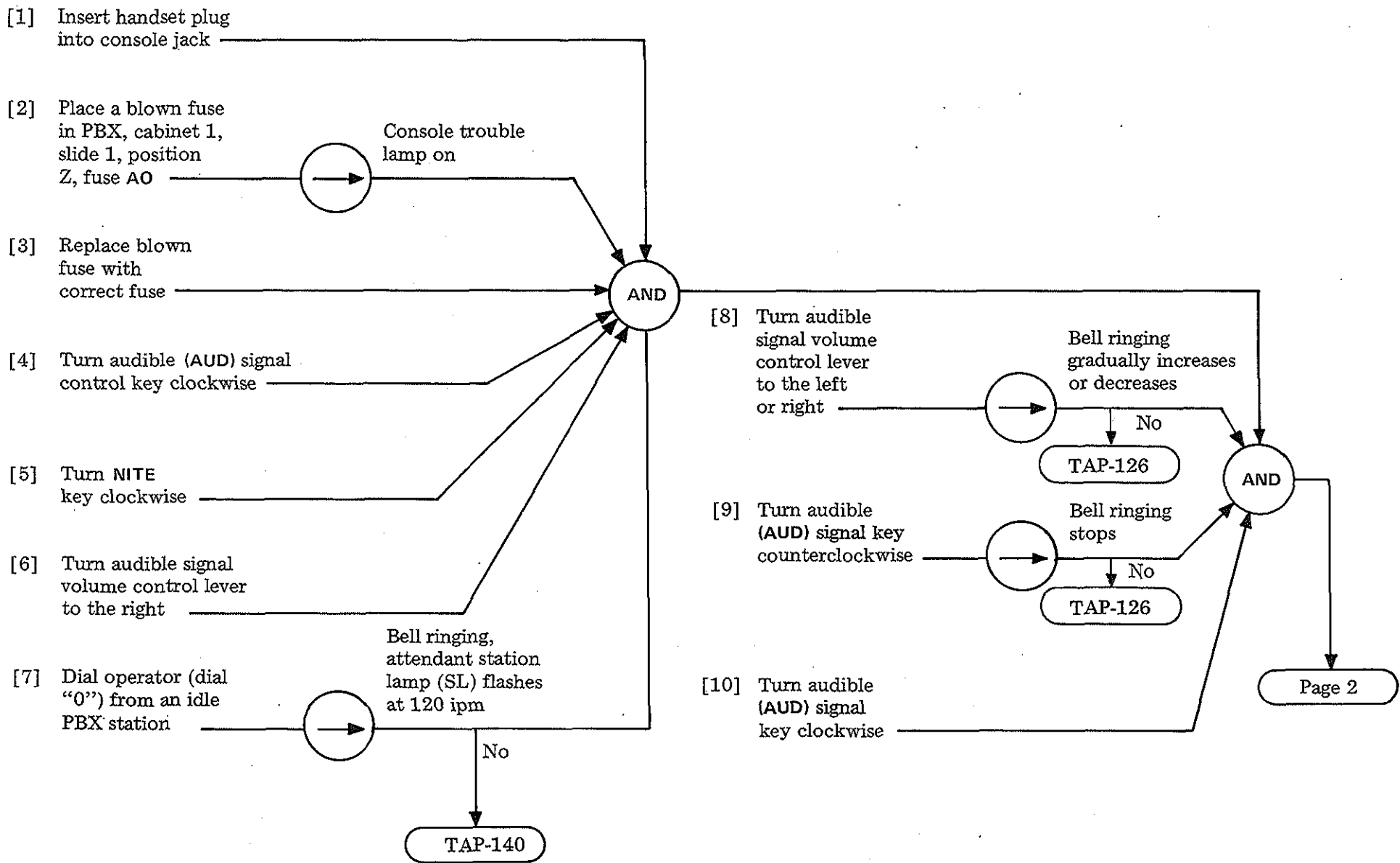
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TEST ATTENDANT KEY TELEPHONE (6-BUTTON) SET

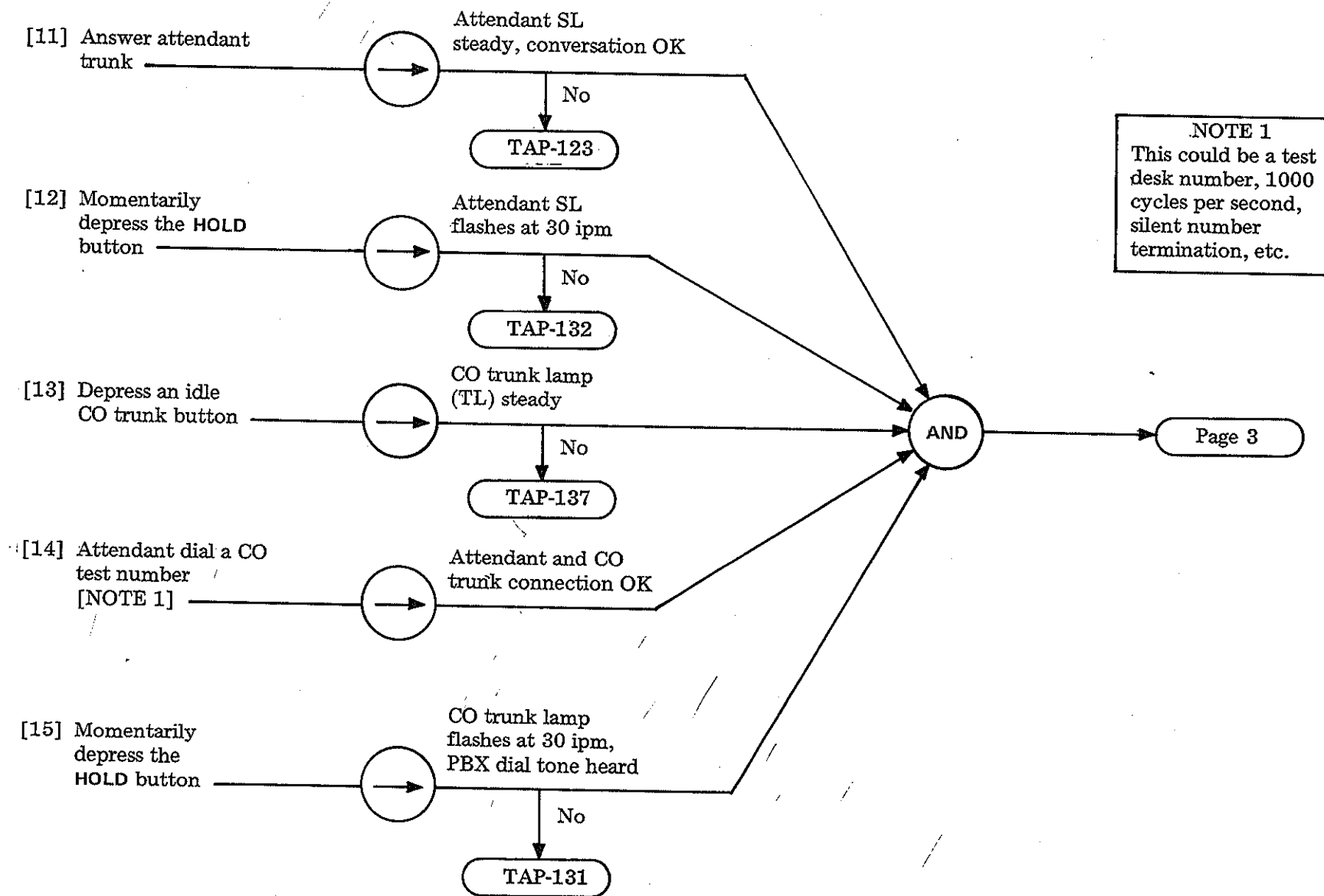
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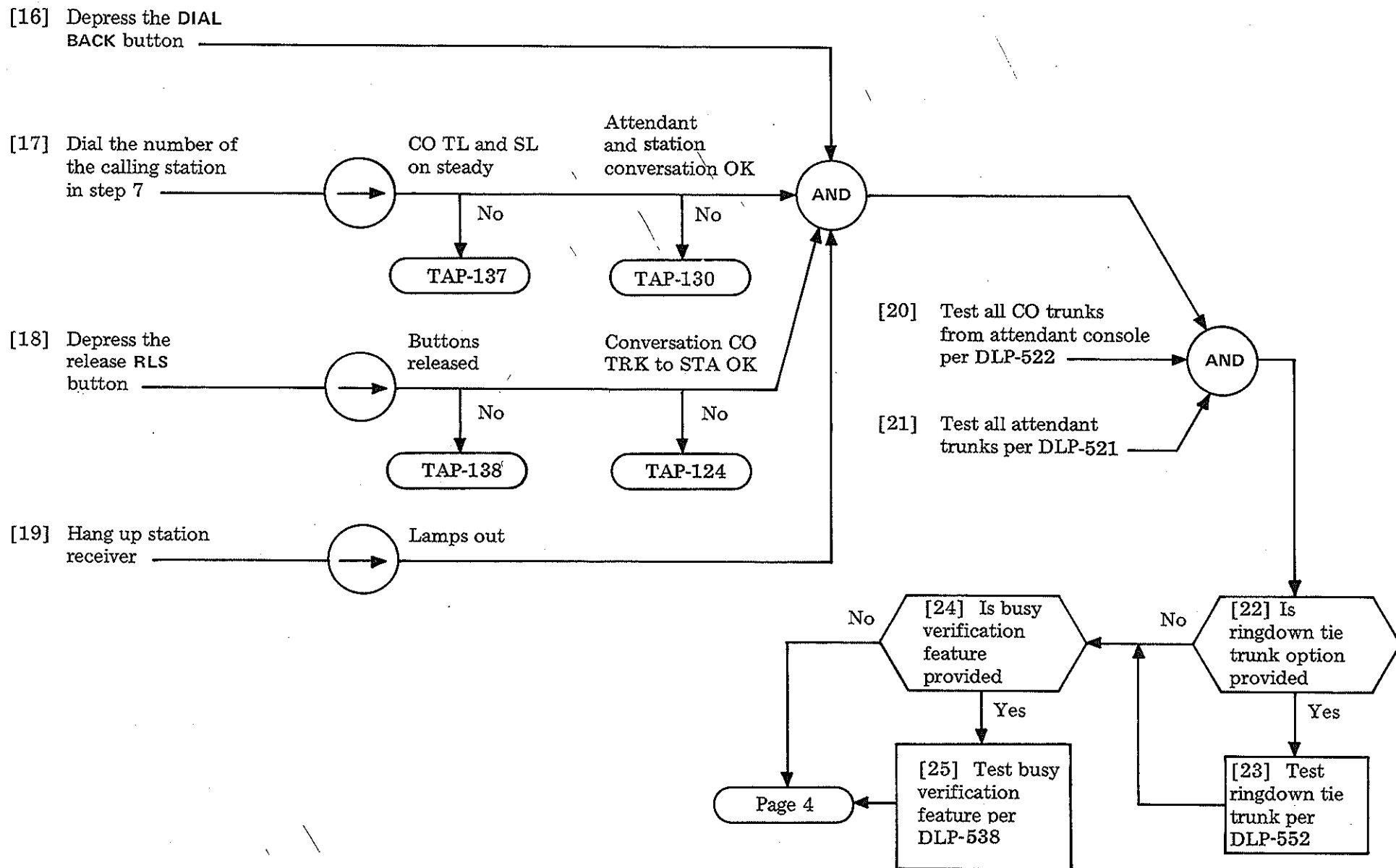
TEST ATTENDANT CONSOLE

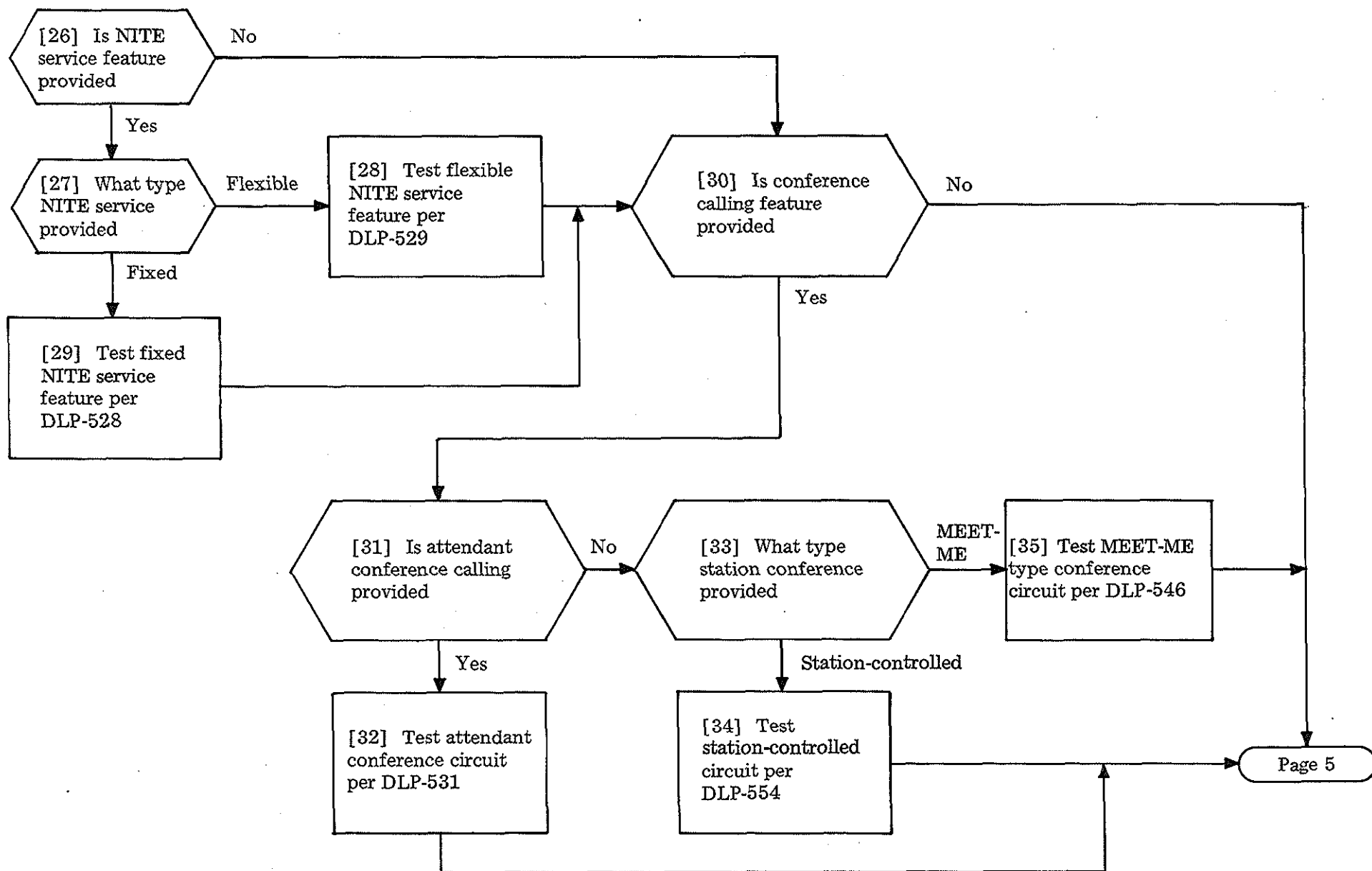
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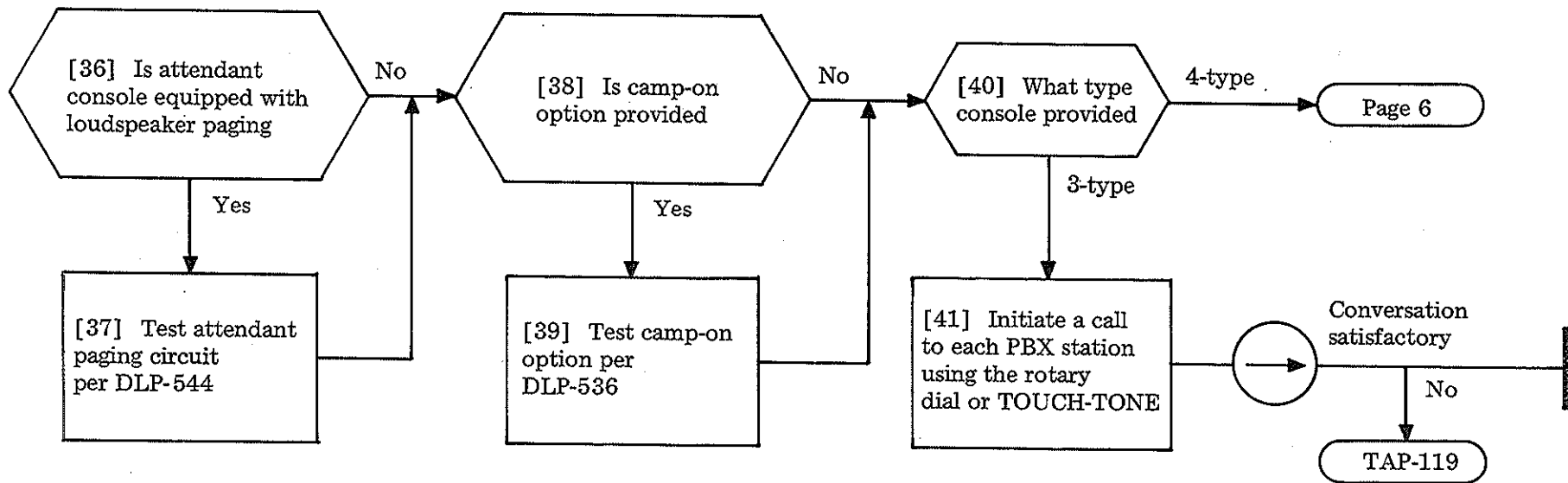


TEST ATTENDANT CONSOLE

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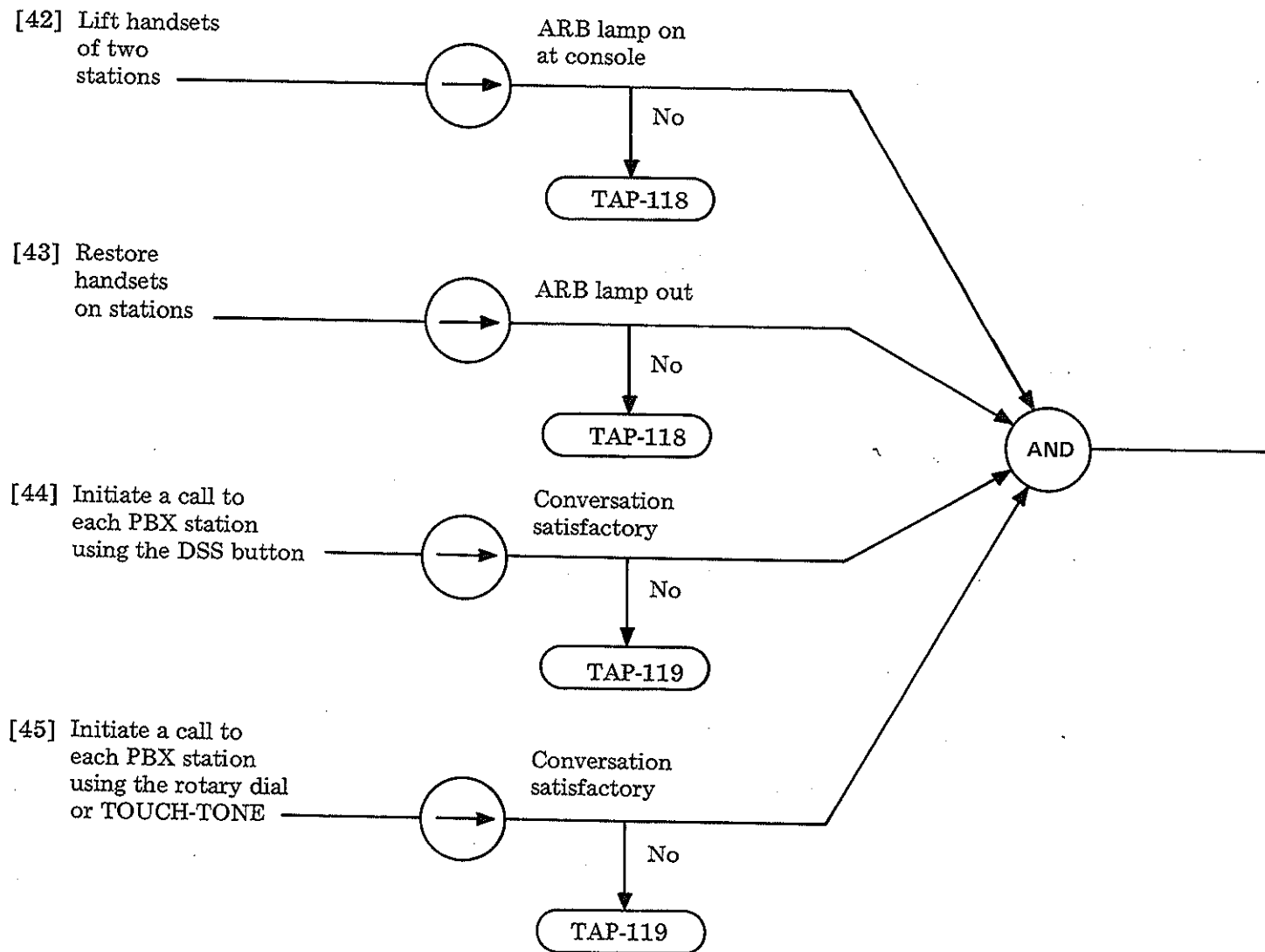






TEST ATTENDANT CONSOLE

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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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REMOVE OPTIONAL EQUIPMENT FROM SERVICE

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

REMOVE OPTIONAL EQUIPMENT FROM SERVICE

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[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

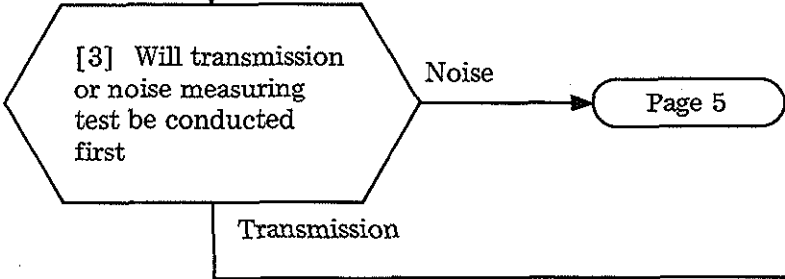


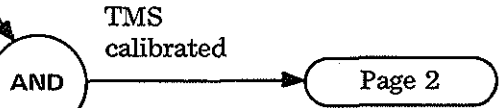
TABLE A
1— TTS 4AN Transmission Measuring Set (TMS) or equivalent
1— J94003C (3C) Noise Measuring Set (NMS) or equivalent
1— 1014A Handset or equivalent
1— 723 Monitoring Headphone (included with 3C NMS)
1— W2EY Cord or equivalent
1— P3H Cord or equivalent

[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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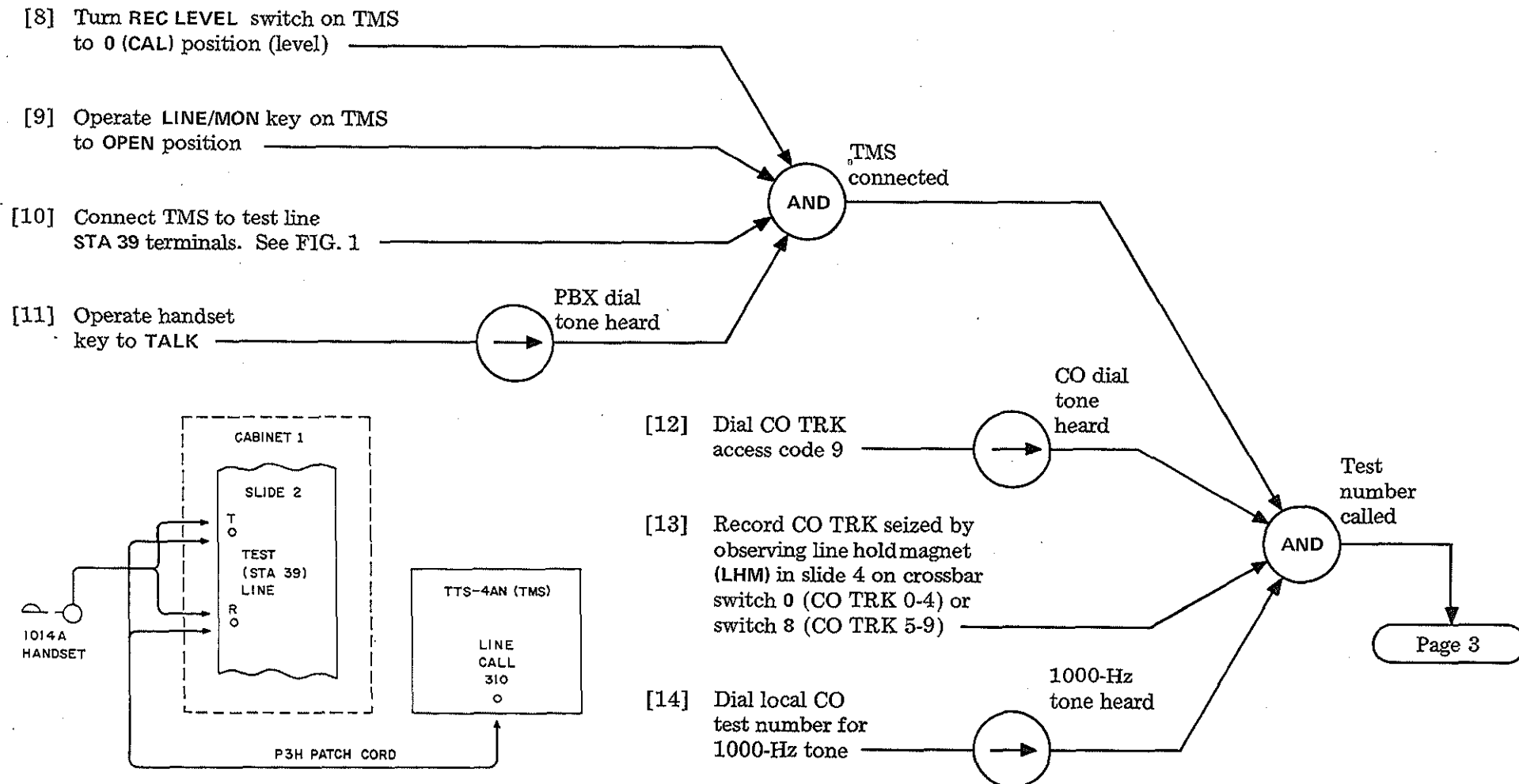
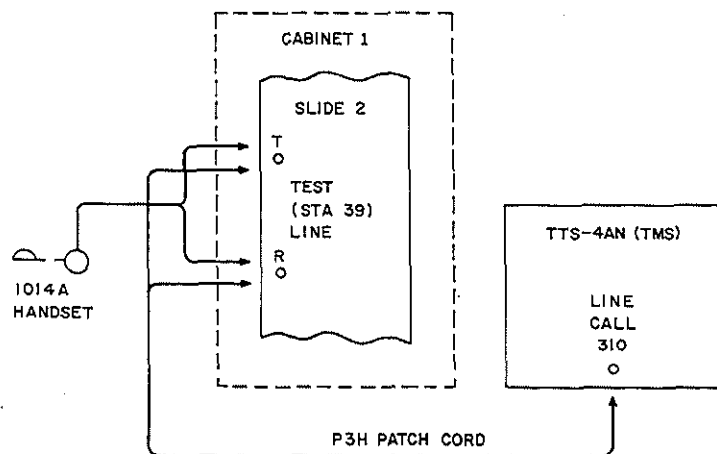
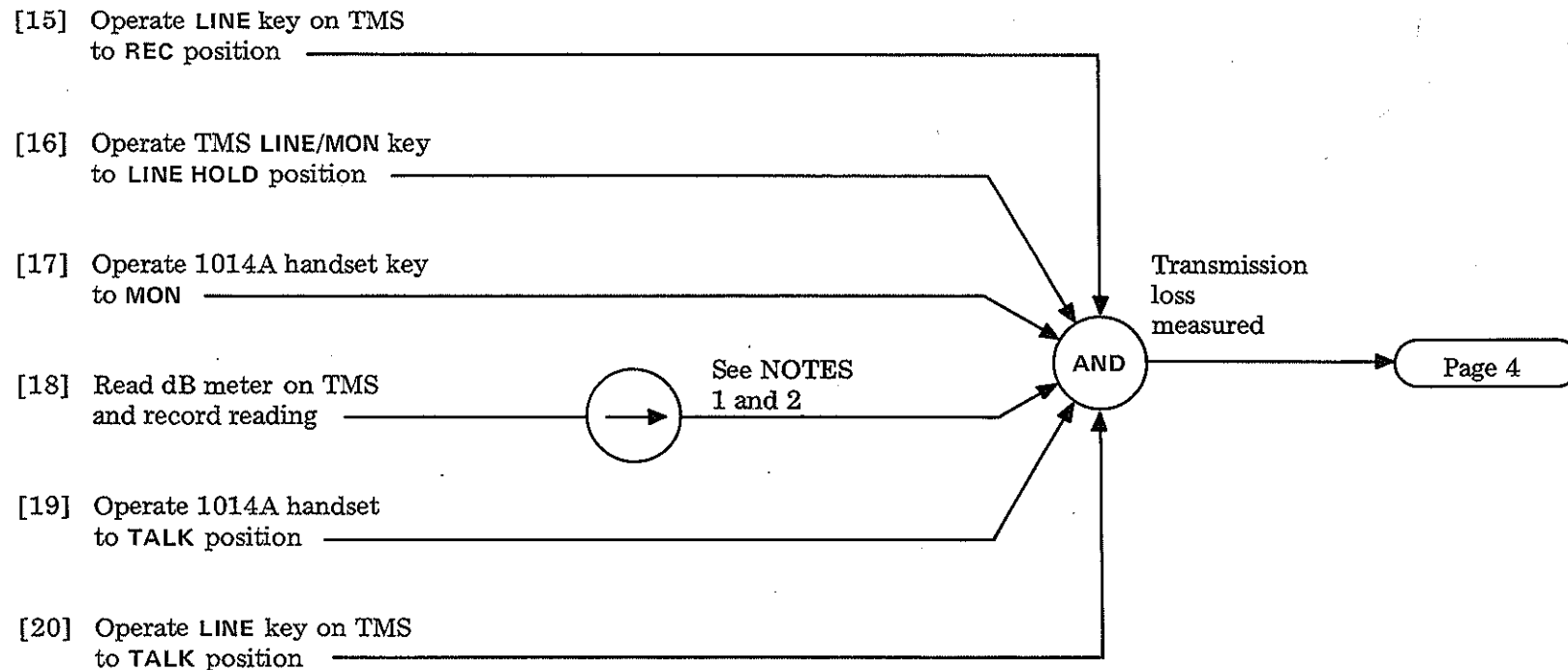


FIG. 1



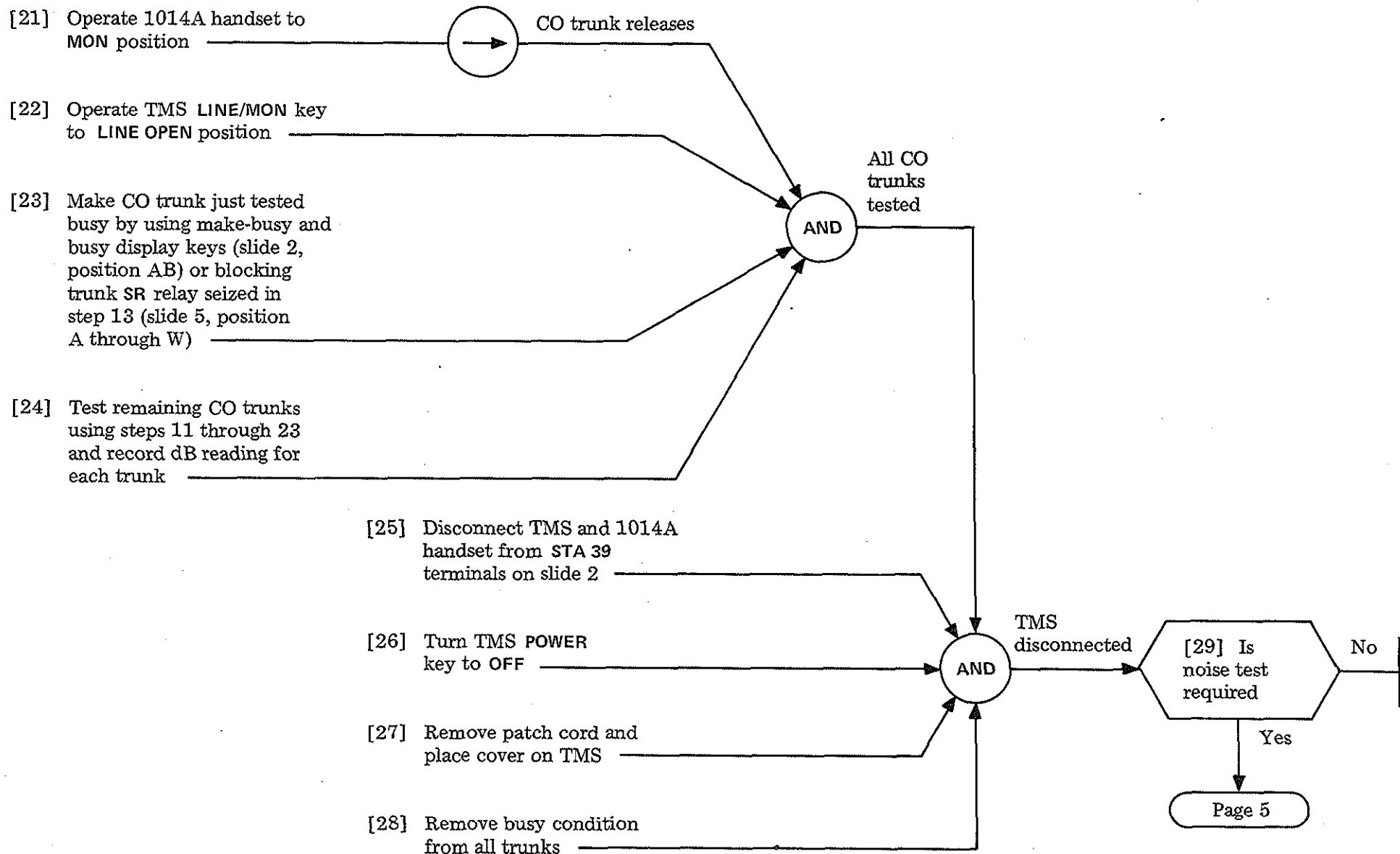
PERFORM TRANSMISSION AND NOISE MEASUREMENTS

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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



[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

AND

[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

AND

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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

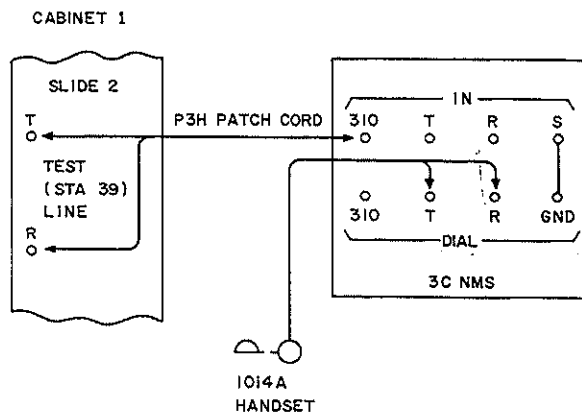


FIG. 3

AND

[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.

Noise measured

Page 8

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 dBrn 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

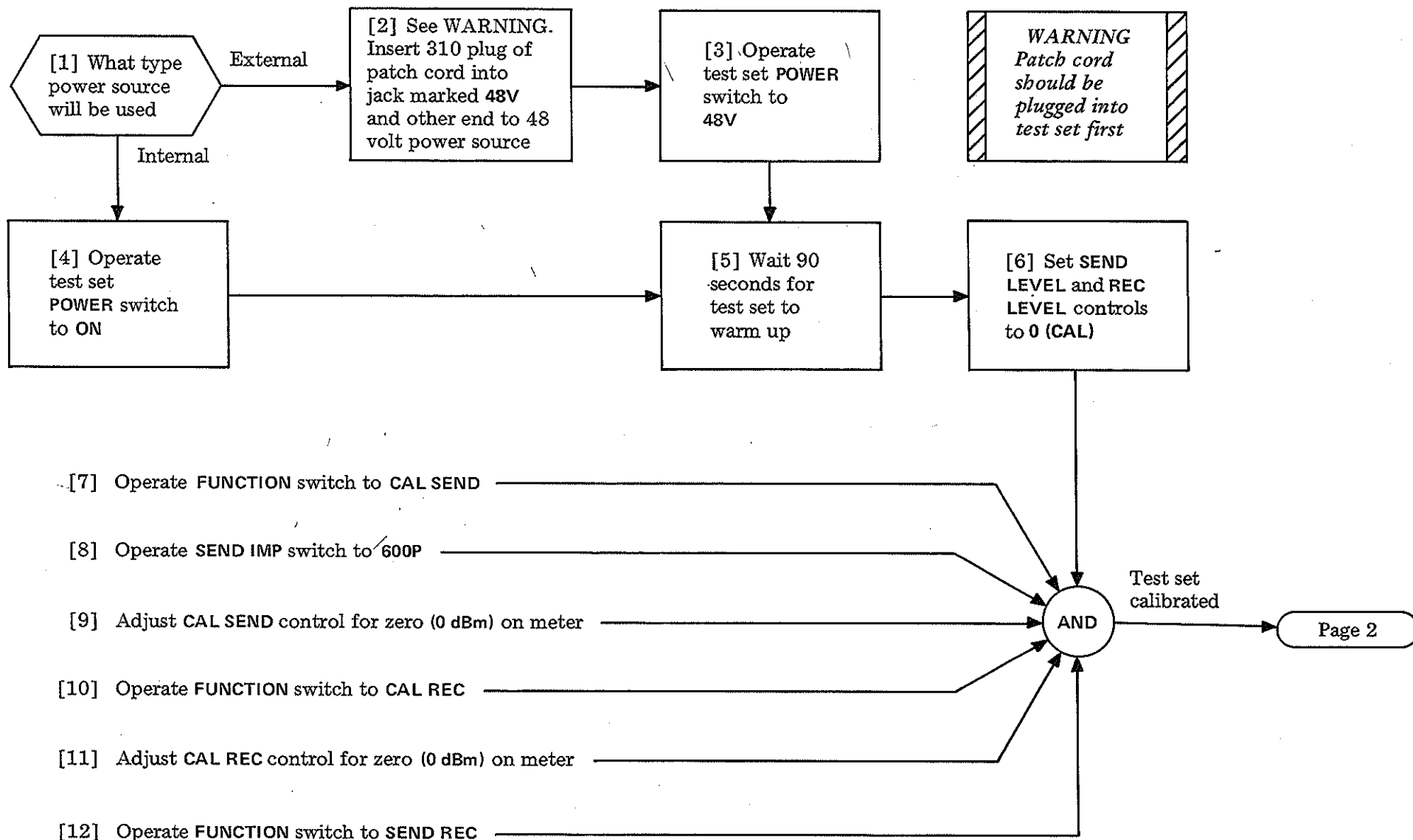
[60] Turn DBRN switch to 85

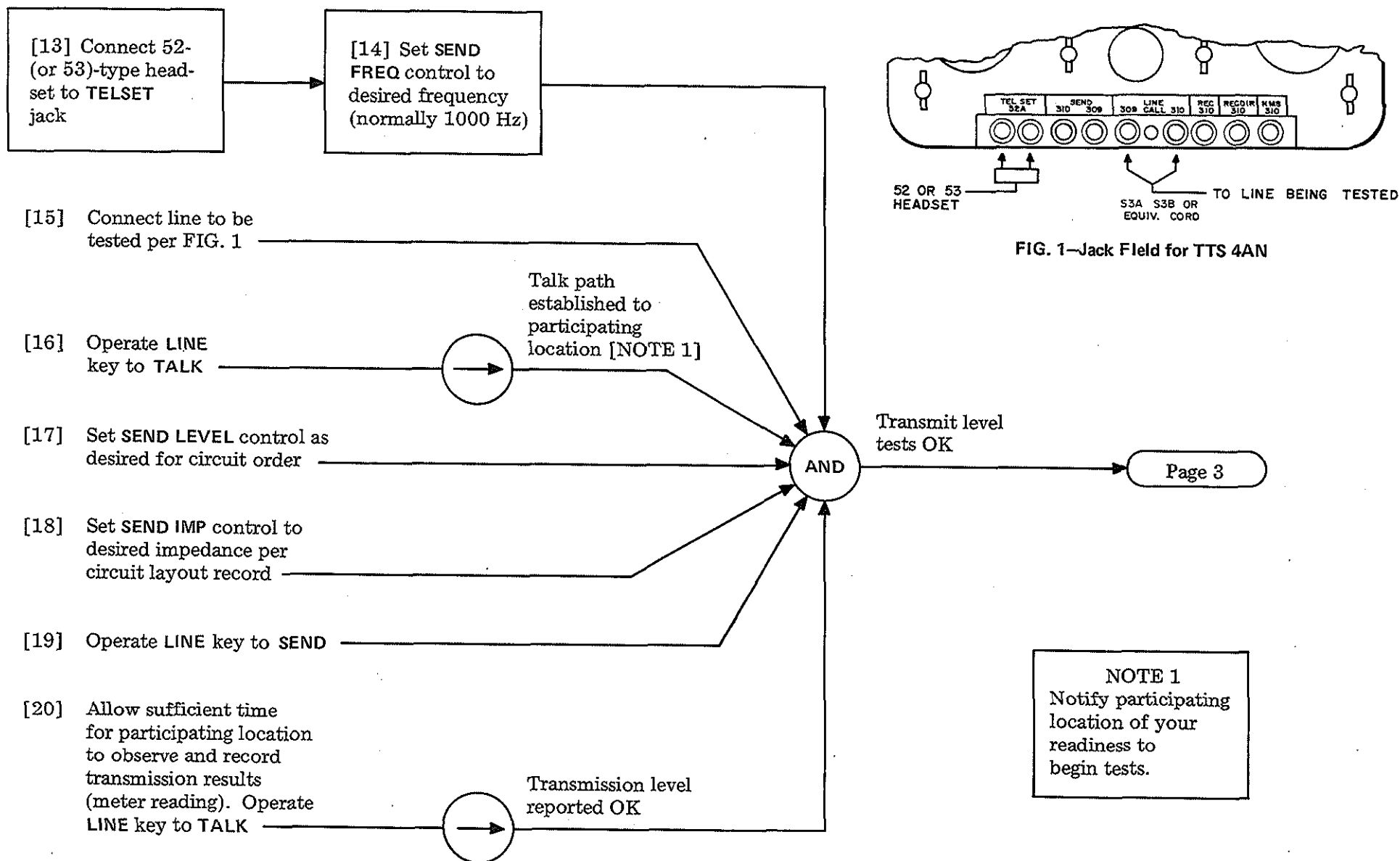
[61] Disconnect test cords from 3C NMS and replace cover

Disconnect setup

PERFORM TRANSMISSION AND NOISE MEASUREMENTS

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NOTE 1
Notify participating location of your readiness to begin tests.

[21] Set REC IMP control to desired impedance

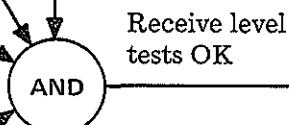
[22] Request participating location to transmit tone to your location

[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

[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
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