

**LINE LINK PULSING LINE CIRCUITS SD-27617-01,SD-27618-01
SD-27619-01, SD-27620-01, SD-27669-01, AND SD-27942-01
TESTS USING OFFICE TEST FRAME TEST CIRCUIT SD-27633-01 (J23260)
NO. 5 CROSSBAR OFFICES**

1. GENERAL

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1.01 This section describes a method of testing line link pulsing line circuits using office test frame test circuit (OTF) SD-27633-01 (J23260), Issue 2D and subsequent issues in No. 5 crossbar offices. Tests from the relay rack frame location and the testboard are also included.

diode polarity. (3) Answer. (4) Release.

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1.02 The reasons for reissuing this section are listed below. Revision arrows are used to emphasize the more significant changes. This reissue affects Equipment Test Lists.

B. Overflow: This test checks the ability of the circuit to recognize a reorder condition from the sender and to return overflow to the calling customer.

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(a) To revise Test B "Overflow" so that overflow is returned to the calling customer from the line circuit under test rather than the incoming trunk.

C. Make Busy: This test checks the ability of all circuits to be manually removed from service on originating service and some circuits to be manually removed from service on incoming service.

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(b) To add operation of the DPS key in Part 3 "Preparation."

D. Service-Busy: This test checks the ability of the circuit to give a service-busy indication.

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(c) To add Test O "INWATS Measurements" for one-way LLP line circuits, SD-27617-01 and SD-27619-01.

E. RT Diode: This test checks the circuit RT diode for polarity, opens, and shorts.

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(d) To add test P "Automatic Make-Busy" for LLP line circuits that are associated with PBX equipped with emergency transfer circuit, SD-1E290-01.

F. E and M Pulsing: This test checks the ability of circuit SD-27619-01, SD-27620-01, SD-27669-01, or SD-27942-01 to receive and transmit E and M pulsing.

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(e) To make minor changes as required.

G. Sender Group-Busy: This test checks the ability of circuits to recognize a sender group-busy condition and to give a busy signal to the number group circuit.

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1.03 The tests covered are:

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A. Seizure and Release: The following features are checked: (1) Seizure of circuit and sender. (2) E

H. Make-Busy—From Toll Test-Board: This test checks the ability

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of circuit SD-27669-01 or SD-27942-01 to be made busy to outgoing service from the testboard when associated PBX is common control type.	10
I. Manual Lockout—Outgoing Call to PBX: The following features are checked at SD-27669-01 or SD-27942-01 when associated with 17E testboard: (1) The circuit and the associated PBX trunk on an outgoing call can be held from the testboard after both customers have disconnected. (2) The cross-office lockout features of the circuit perform properly.	10
J. Incoming Call From PBX : This test checks the ability of the 2-way circuit to allow the PBX to originate calls. Features tested are: (1) Dial tone cut-through. (2) Pulsing received and/or cut-through to an originating register. (3) Talking path.	12
K. Manual Lockout—Incoming Call From PBX : This test checks that when an incoming call is set up the testboard can block outgoing calls by applying a lockout signal to the 2-way circuit SD-27669-01 or SD-27942-01.	14
L. Automatic Line Lockout—Outgoing Call to PBX : This test checks the ability of line circuit SD-27669-01 or SD-27942-01 to automatically lockout and provide disconnect supervision if the called customer fails to restore the handset when calling party has disconnected.	16
M. Automatic Line Lockout—Incoming Call From PBX : This test checks the ability of circuit SD-27669-01 or SD-27942-01 to automatically lock out and provide disconnect supervision if the calling customer fails to restore handset when called party has disconnected.	17
N. Subgroup Busy Indication to Number Group: This test checks circuit ability to contribute to a subgroup busy indicaton for the number group	

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when all circuits in a terminal hunting group are busy.	18
O. ♦INWATS Measurements: This test checks the MR, SZ, OF registers and TM time meter associated with one-way LLP line circuits, SD-27617-01 and SD-27619-01	23
P. Automatic Make Busy: This test checks that LLP line circuits in a line group will be made busy by the Trunk Make-Busy Circuit, SD-25668-01, if emergency transfer circuit at PBX operates due to power or central processor failure♦	24
1.04 Lettered Steps: A letter a, b, c, etc, added to a step number in Parts 3 and 4 of this section indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or a series of lettered steps should be made is given in the ACTION column, and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.	
1.05 ♦Local instructions should be followed with reference to notifying the customer before and after performing Test O. Also during Test O, INWATS measurement registers SZ, MR, OF and TM time meter will score. The reporting of these register and time meter operations should be in accordance with local instructions.♦	
2. APPARATUS	
Tests A, B, C, E Through I, L, ♦O♦	
2.01 Office test frame test circuit, J23260 (SD-27633-01). ♦	
2.02 Patching cord, P3E cord, 6 feet long, equipped with two 310 plugs (3P7A cord).	
Tests C, D, N, ♦P♦	
2.03 67C test set or equivalent equipped with one KS-6278 connecting clip (for checking the presence or absence of battery or ground).	

Tests C, K, M, P

2.04 Blocking and insulating tools as required. Use tools and apply as covered in Section 069-020-801.

Tests G, J, K, M, N

2.05 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip (for ground or battery connection) and two 424B tools (for connections to terminals).

Test H, I, J, K

2.06 For SD-27669-01 or SD-27942-01, 17E testboard.

Tests J, K

2.07 For SD-27618-01, one 1014A dial hand test set or equivalent, equipped with 2W38A cord assembly consisting of a W2CK cord, 5 feet long, equipped with one 310 plug and one 471A jack.

Tests J, K, M

2.08 For SD-27620-01, SD-27669-01, or SD-27942-01, two 1014A dial hand test sets or equivalent, equipped with two 2W41A cord assemblies consisting of two W2CJ cords, two 271A jacks, two 360A tools, two 360B tools, three 624B (terminal connector) tools (for connecting to terminals), and one KS-6278 connecting clip (for ground connection).

Test O

2.09 32A test set.

3. PREPARATION

STEP	ACTION	VERIFICATION
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Tests A, B, C, E Through I, L, O

- | | | |
|---|--|-------------------------|
| 1 | At OTF—
Restore all keys and switches. | All lamps extinguished. |
| 2 | At TIC—
Momentarily operate RLS key. | All lamps extinguished. |
| 3 | Have incoming trunk to be used for test made busy at distant office. | |
| 4 | At incoming trunk relay rack frame—
When A or E relay of selected trunk is released, patch ITT jack to T jack or T1, T2 jacks to T1, T2 jacks when E and M signaling is required. | |
| 5 | At OTF—
Set A_ through G_ DIAL switches as required to select a line route relay which has access to circuit under test. | |
| 6 | Operate _D key to agree with number of digits to be dialed. | |
| 7 | Set A_ through D_ SDR switches, as required, to select digits that sender will outpulse as | |

STEP	ACTION	VERIFICATION
	determined from office records for directory number selected.	
8	Operate _SD key to agree with number of digits to be outpulsed.	
9	Operate MKR_, MCB keys.	
10a	If line circuit group is allotted— Operate NGA key and set NGT switch to A-H to select desired number group.	
11	Set TBT, TBU switches, as required, to select tens block within circuit group for access to circuit under test.	
12	Operate PBX2, S_ keys, as required, to select circuit under test.	
13	Set LLS switch to select line link frame.	
14	Operate LLP key.	
15	Operate ITT, ITT1 keys, or ITT, ITT2 keys when E and M signaling is required.	
16	Set L-L switch to 0.	
17	Set PS switch to 44-11.	
18	◆Operate DPS key.◆	
19b	If E and M supervision is provided in line circuit under test— Operate EM key.	
20c	If incoming register associated with selected trunk is arranged for multifrequency operation— Operate MF key.	
21d	If trunk is arranged for short loop operation— Operate SLP key.	
22e	If ground shunt feature is provided in selected trunk— Operate GS key.	
23f	If selected trunk has battery on ring of T jack in idle condition— Operate ONHK key.	

STEP	ACTION	VERIFICATION
4. METHOD		

STEP	ACTION	VERIFICATION
A. Seizure and Release		

A. Seizure and Release

24	Operate ST key.	LLP lamp lighted. If E and M supervision is provided— EM lamp lighted and flashes with sender pulsing. OFHK lamp momentarily lighted. CS lamp lighted.
25	Operate RVT key.	If E and M signaling is not required on trunk used for test— OFHK lamp lighted.
26	Restore ST key.	All lamps extinguished.
27	Restore all keys and switches not required in next test.	
28	At incoming trunk relay rack frame— Remove patching cord from ITT, T jacks or T1, T2 jacks.	
29	Have trunk used in test restored to service at distant office.	

B. Overflow

24	Operate ST key.	LLP lamp lighted. TGT lamp lighted.
25	After TGT lamp lighted— Operate RTL key.	If test call improvement is provided— 120-ipm tone heard. If E and M supervision is provided— EM lamp lighted.
26	Restore ST, RTL key.	120-ipm tone silenced. All lamps extinguished.
27	Restore all keys and switches not required in next test.	
28	At incoming trunk relay rack frame— Remove patching cord from ITT, T jacks or T1, T2 jacks.	
29	Have trunk used in test restored to service at distant office.	

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STEP	ACTION	VERIFICATION
C. Make-Busy		
SD-27620-01		
24	At relay rack frame— Set MB switch associated with circuit under test to MB.	MB lamp lighted.
25	At OTF— Operate ST key.	120-ipm tone heard.
26	Restore ST key. Note: Perform Steps 27 through 29 without delay to avoid service seizure of circuit under test.	120-ipm tone silenced. At relay rack frame— MB relay operated. Ground present on terminal 37 of terminal strip A. Battery present on terminal 37 of terminal strip B.
27	Restore MB switch to N.	MB lamp extinguished.
28	Check for battery on terminal 37 of terminal strip A.	Battery present.
29	Check for battery on terminal 37 of terminal strip B.	Battery absent.
30	Restore all keys and switches not required in next test.	
31	At incoming trunk relay rack frame— Remove patching cord from ITT, T jacks.	
32	Have trunk used in test restored to service at distant office.	
SD-27617-01, SD-27618-01, SD-27619-01, SD-27669-01, and SD-27942-01		
33g	If SD-27617-01, SD-27618-01, or SD-27619-01 is under test— At relay rack frame— Set MB switch associated with circuit under test to MB.	MB lamp lighted.
34h	If SD-27669-01 or SD-27942-01 is under test and 17E testboard is provided— Perform Test H.	
35i	If SD-27669-01 or SD-27942-01 is under test and 17E testboard is <i>not</i> provided— At relay rack frame—	MB lamp lighted.

STEP	ACTION	VERIFICATION
	Set MB switch associated with circuit under test to MB.	
36	At OTF— Operate ST key.	120-ipm tone heard.
37	Restore ST key.	120-ipm tone silenced. If SD-27617-01, SD-27618-01, or SD-27619-01 is under test— At relay rack frame— D relay operated. If SD-27669-01 or SD-27942-01 is under test— At relay rack frame— Battery absent on terminal 37 of terminal strip A. If off-hook signal to PBX is required— Battery present on terminal 37 of terminal strip B.
	Note: Perform Step 38 without delay after MB switch is restored to avoid service seizure of circuit under test.	
38	Restore MB switch to N.	MB lamp extinguished. If SD-27617-01, SD-27618-01, or SD-27619-01 is under test— D relay released. If SD-27669-01 or SD-27942-01 is under test— Battery present on terminal 37 of terminal strip A. If off-hook signal to PBX is required— Battery absent on terminal 37 of terminal strip B.
39	Restore all keys and switches not required in next test.	
40	At incoming trunk relay rack frame— Remove patching cord from ITT, T or T1, T2 jacks.	
41	Have trunk used in test restored to service at distant office.	
	D. Service-Busy	
1	At relay rack frame— When circuit is idle— Momentarily operate relays in accordance with Table A.	Ground present or battery absent in accordance with Table A on terminal 37 of terminal strip A while relay is operated.
	E. RT Diode	
24	Operate St key.	After outpulsing complete— EP lamp lighted. LLP lamp lighted.

STEP	ACTION	VERIFICATION
		EP, CS lamps lighted. High tone heard.
25	Restore St key.	All lamps extinguished. High tone silenced.
26	At incoming trunk relay rack frame— Remove patching cord from ITT, T or T1, T2 jacks.	
27	At OTF— Restore all keys and switches not required in next test.	
28	Have trunk used for test restored to service at distant office.	
G. Sender Group-Busy		
24	At relay rack frame— Set MB switch associated with line circuit under test to MB.	MB lamp lighted.
		Note: MB lamp will already be lighted if the switch for another circuit on the relay rack has been previously operated.
25	Connect ground to terminal 45 of terminal strip A.	If SD-27617-01 or SD-27619-01 is under test— D relay operated. If SD-27618-01 is under test— SB relay operated. If SD-27620-01 is under test— MB relay operated. If SD-27669-01 or SD-27942-01 is under test— M relay operated.
26	Restore MB switch to N.	MB lamp extinguished.
27	At OTF— Operate ST key.	120-ipm tone heard.
28	Restore ST key.	120-ipm tone silenced.
29	At relay rack frame— Remove ground from terminal 45 of terminal strip A.	D, SB, MB, or M relay released.
30	At OTF— Restore all keys and switches not required in next test.	
31	At incoming trunk relay rack frame— Remove patching cord from ITT, T or T1, T2 jacks.	

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STEP	ACTION	VERIFICATION
32	Have trunk used for test restored to service at distant office.	
H. Make-Busy—From Toll Testboard		
24	At 17E testboard— When circuit is idle— Plug test cord into TST jack associated with circuit under test.	
25	Operate Talk key.	
26	Momentarily operate LO key.	LO_ lamp associated with circuit under test lighted.
27	At OTF— Operate ST key.	120-ipm tone heard.
28	At 17E testboard— Momentarily operate RST key.	LO_ lamp extinguished.
29	Remove plug of test cord from TST jack of circuit under test.	
30	Restore Talk key.	
31	At OTF— Restore ST key.	All lamps extinguished. 120-ipm tone silenced.
32	Restore all keys and switches not required in next test.	
33	At incoming trunk relay rack frame— Remove patching cord from ITT, T or T1, T2 jacks.	
34	Have trunk used for test restored to service at distant office.	
I. Manual Lockout—Outgoing Call to PBX		
24	At relay rack frame— Set MB switch associated with circuit under test to MB.	MB lamp lighted. <i>Note:</i> The MB lamp will already be lighted if the MB switch for another circuit on the relay rack has been previously operated.
25	Operate NTLS key.	
26	Operate ST key.	LLP, EM lamps lighted.

STEP	ACTION	VERIFICATION
27	Operate ANS key.	ANS lamp lighted. High tone heard.
28	At 17E testboard— Plug test cord into TST jack associated with circuit under test.	
29	Operate Talk key.	
30	Momentarily operate LO key.	LO_ lamp associated with circuit under test lighted.
31	At OTF— Restore ST key.	All lamps extinguished. High tone silenced. At relay rack frame— LO, BY, TRK, M relays held operated.
32	At 17E testboard— Momentarily operate RST key.	LO_ lamp extinguished. At relay rack frame— All relays released.
33	At 17E testboard— Remove plug of test cord from TST jack associated with circuit under test.	
34	Restore Talk key.	
35g	If circuit under test is provided with the cross-office lockout feature— At OTF— Operate ST key.	EP, LLR, EM lamps lighted.
36g	Operate ANS key.	ANS lamp lighted. High tone heard.
37g	At 17E testboard— Plug test cord into TST jack associated with circuit under test.	
38g	Operate Talk key.	
39g	Momentarily operate LOX key.	LO_ lamp associated with circuit under test lighted.
40g	At OTF— Restore ST key.	All lamps extinguished. High tone silenced. At relay rack frame— LO, BY, TRK, M relays held operated.
41g	At 17E testboard— Momentarily operate RST key.	LO_ lamp extinguished. At relay rack frame— All relays released.

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STEP	ACTION	VERIFICATION
42g	At 17E testboard— Remove plug of test cord from TST jack associated with circuit under test.	
43g	Restore Talk key.	
44	At OTF— Restore all keys and switches not required in next test.	
45	At relay rack frame— Restore MB switch to N.	MB lamp extinguished.
46	Remove patching cord from ITT, T or T1, T2 jacks.	
47	Have trunk used for test restored to service at distant office.	

J. Incoming Call From PBX

Note: Verify that BY relay is released before proceeding with test.

SD-27618-01

1	Set switch of handset to MON.	
2	At relay rack frame— Insert handset plug into T jack.	
3	Set handset switch to TALK.	Dial tone heard.
4	Dial digits-assigned to 1000-Hz tone.	1000-Hz tone heard.
5	Set handset switch to MON.	1000-Hz tone silenced.
6	Remove handset plug from T jack.	

SD-27620-01, SD-27669-01 Provided Without 17E Testboard or SD-27942-01 Not Equipped For Use With 17E Testboard

7	At relay rack frame— Set MB switch associated with circuit under test to MB.	MB lamp lighted. Note: The MB lamp will already be lighted if the MB switch for another circuit on the relay rack frame has been operated previously.
8a	If SD-27669-01 or SD-27942-01 is under test— When BY relay is released— Insulate 2B of M relay.	

STEP	ACTION	VERIFICATION
9b	If PBX associated with SD-27669-01 or SD-27942-01 is noncommon control type— Connect battery to terminal 37 on terminal strip B.	
	<i>Note:</i> Perform this test without delay to avoid interference with incoming calls from PBX.	
10	Set both handset switches to MON.	
11	Connect first handset to terminals 18 and 28 on terminal strip B.	
12	Connect second handset to ground and terminal 27 on terminal strip B.	
13	Set MB switch to N.	MB lamp extinguished.
14	Set switch of second handset to TALK.	Dial tone heard on first handset.
15	Dial digits assigned to 1000-Hz tone on second handset.	1000-Hz tone heard on first handset.
16	Set second handset switch to MON.	1000-Hz tone not heard on first handset.
17	Remove both handsets from terminals and ground.	
18b	If PBX associated with SD-27669-01 or SD-27942-01 is noncommon control type— Remove test connections from terminal strip B.	
19a	If SD-27669-01 or SD-27942-01 is under test— Remove insulator from M relay.	
SD-27669-01 or SD-27942-01 Provided With 17E Testboard		
20	At relay rack frame— Set MB switch associated with circuit under test to MB.	MB lamp lighted.
		<i>Note:</i> The MB lamp will already be lighted if the MB switch for another circuit on the relay rack frame has been operated previously.
21	When BY relay is released— Insulate 2B of M relay.	
22c	If PBX associated with circuit under test is noncommon control type—	

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STEP	ACTION	VERIFICATION
	Connect battery to terminal 37 on terminal strip B.	
	Note: Perform this test without delay to avoid interference with incoming calls from PBX.	
23	At 17E testboard— Patch circuit under test to test bay.	
24	Operate TST-MON key associated with SIG T cord or SIG TEST jack to TST.	
25	Operate TWD L key to ON-HOOK.	
26	Operate TWD D key to OFF-HOOK.	
27	Operate DIAL key to DIAL DROP.	
28	Connect testboard TST cord to TST jack associated with circuit under test.	
29	Operate TALK-MON key to MON.	
30	Dial digits assigned to 1000-Hz tone.	1000-Hz tone heard.
31	Remove TST cord from TST jack.	1000-Hz tone silenced.
32	Remove patching cord from SIG jacks associated with circuit under test.	All lamps extinguished.
33	Restore all keys not required in next test.	
34	At relay rack frame— Remove insulator from M relay.	
35c	If PBX associated with circuit under test is noncommon control type— Remove test connections from terminal strip B.	
36	Set MB switch to N.	MB lamp extinguished.

K. Manual Lockout—Incoming Call From PBX

- 1 At relay rack frame—
When circuit is idle—
Insulate 10B of BY relay.
- 2 Insulate 2B of M relay.

STEP	ACTION	VERIFICATION
3a	<p>If PBX associated with circuit under test is noncommon control type— Connect battery to terminal 37 of terminal strip B.</p> <p><i>Note:</i> Perform this test without delay to avoid interference with incoming calls from PBX.</p>	
4	Set switch of both handsets to MON.	
5	Connect first handset to ground and terminal 27 on terminal strip B.	
6	Connect second handset to terminals 18 and 28 on terminal strip B.	
7	Set switches of both handsets to TALK.	Dial tone heard on second handset.
8	Dial digits assigned to 1000-Hz tone using first handset.	1000-Hz tone heard on second handset.
9	Remove insulators from BY, M relays.	
10	<p>At 17E testboard— Plug test cord into TST jack associated with circuit under test.</p>	
11	Operate Talk key.	1000-Hz tone heard in testboard handset.
12	Momentarily operate LO key.	<p>LO₁ lamp associated with circuit under test lighted.</p> <p>If SD-27669-01 is under test— At relay rack frame— LO relay operated.</p> <p>If SD-27942-01 is under test— At relay rack frame— LO1 relay operated.</p>
13	Set switch of first handset to MON.	<p>1000-Hz tone not heard in second handset.</p> <p>If SD-27669-01 is under test— LO relay remains operated; all other relays released.</p> <p>If SD-27942-01 is under test— LO1 relay remains operated; all other relays released.</p>
14	<p>At 17E testboard— Momentarily operate RST key.</p>	<p>LO₁ lamp associated with circuit under test extinguished.</p> <p>If SD-27669-01 is under test— At relay rack frame— LO relay released.</p>

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STEP	ACTION	VERIFICATION
		If SD-27942-01 is under test— At relay rack frame— L01 relay released.
15	At 17E testboard— Remove plug of test cord from TST jack associated with circuit under test.	
16	Restore Talk key.	
17	At relay rack frame— Remove both handsets from terminals.	
18a	If PBX associated with circuit under test is noncommon control type— Remove battery connection from terminal strip B.	
L. Automatic Line Lockout—Outgoing Call To PBX		
24	Operate ST key.	LLP, EM, CS, ED lamps lighted.
25	Operate TTLD key.	
26	Operate ANS key.	ANS lamp lighted. High tone heard (1700 Hz from OTF).
27	◆Release◆ ITT1 or ITT2 key.	High tone (1700 Hz)) silenced. At end of 6 or 12 minutes— At jack, lamp, and key circuit— PS lamp lighted. Aisle pilot lamp lighted. Minor alarm sounds. High tone silenced.
28	◆At OTF—◆ Restore ST, ANS keys.	◆At jack, lamp, and key circuit—◆ PS lamp extinguished. Aisle pilot lamp extinguished. Minor alarm silenced.
29	Restore all keys and switches not required in next test.	All lamps extinguished.
30	Remove patching cord from ITT, T or T1, T2 jacks.	
31	Have trunk used for test restored to service at distant office.	

STEP	ACTION	VERIFICATION
M. Automatic Line Lockout—Incoming Call From PBX		
1	At relay rack frame— When circuit is idle— Insulate 10B of BY relay.	
2	Insulate 2B of M relay.	
3a	If PBX associated with circuit under test is noncommon control type— Connect battery to terminal 37 on terminal strip B.	
	Note: Perform this test without delay to avoid interference with incoming calls from PBX.	
4	Set switches on both handsets to MON.	
5	Connect first handset to ground and terminal 27 of terminal strip B.	
6	Connect second handset to terminals 18, 28 on terminal strip B.	
7	Set switches of both handsets to TALK.	Dial tone heard from second handset.
8	Using first handset, dial digits assigned to nearest maintenance center telephone set.	Telephone set rings.
9	At telephone set— Remove handset for 3 seconds and restore.	At relay rack frame— High tone heard in second handset. If circuit under test is equipped with permanent signal alarm feature— At jack, lamp, and key circuit— After 6 or 12 minutes— PS lamp lighted. Aisle pilot lamp lighted. Minor alarm sounds.
10	At relay rack frame— Set switch of first handset to MON.	At jack, lamp, and key circuit— PS lamp extinguished. Aisle pilot lamp extinguished. Minor alarm silenced. At relay rack frame— High tone silenced at second handset.
11	Remove test connections and handsets.	
12	Remove insulators from BY, M relays.	

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STEP	ACTION	VERIFICATION
N. Subgroup Busy Indication to Number Group		
SD-27617-01		
1a	If circuit under test is first or intermediate circuit of terminal hunting group— At relay rack frame— Connect ground to terminal 35 of terminal strip B of succeeding circuit.	
2a	When circuit under test is idle— Block operated D relay.	
3b	If circuit under test is last circuit of terminal hunting group— At relay rack frame— When circuit is idle— Block operated D relay.	
4	Check for ground on terminal 35 of terminal strip B.	Ground present.
5	Block operated SL relay.	
6	Remove blocking tool from D relay.	
7	Check for ground on terminal 35 of terminal strip B.	Ground present.
8	Block operated F relay.	
9	Remove blocking tool from SL relay.	
10	Check for ground on terminal 35 of terminal strip B.	Ground present.
11c	If circuit under test is equipped with SLA relay— Block operated SLA relay.	
12c	Remove blocking tool from F relay.	
13c	Check for ground on terminal 35 of terminal strip B.	Ground present.
14	Remove blocking tool from F or SLA relay.	
15a	If circuit under test is first or intermediate circuit of terminal hunting group— Remove test connection from terminal strip B of succeeding circuit.	

STEP	ACTION	VERIFICATION
SD-27618-01		
16a	◆If circuit under test is first or intermediate circuit of terminal hunting group—◆ At relay rack frame— Connect ground to terminal 35 of terminal strip B of succeeding circuit.	
17a	When circuit under test is idle— Block operated BY relay.	
18b	If circuit under test is last circuit of terminal hunting group— At relay rack frame— When circuit is idle— Block operated BY relay.	
19	Check for ground on terminal 35 of terminal strip B.	Ground present.
20	Block operated SB relay.	
21	Remove blocking tool from BY relay.	
22	Check for ground on terminal 35 of terminal strip B.	Ground present.
23d	If circuit under test is provided with option T— Block operated G relay.	
24d	Remove blocking tool from SB relay.	
25d	Check for ground on terminal 35 of terminal strip B.	Ground present.
26	Remove blocking tool from SB or G relay.	
27a	If circuit under test is first or intermediate circuit of terminal hunting group— Remove test connection from terminal strip B of succeeding circuit.	
SD-27619-01		
28a	◆If circuit under test is first or intermediate circuit of terminal hunting group—◆ At relay rack frames— Connect ground to terminal 35 of terminal strip B of succeeding circuit.	

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STEP	ACTION	VERIFICATION
29a	When circuit under test is idle— Block operated D relay.	
30b	If circuit under test is last circuit of terminal hunting group— At relay rack frame— When circuit is idle— Block operated D relay.	
31	Check for ground on terminal 35 of terminal strip B.	Ground present.
32	Block operated SL relay.	
33	Remove blocking tool from D relay.	
34	Check for ground on terminal 35 of terminal strip B.	Ground present.
35	Block operated F relay.	
36	Remove blocking tool from SL relay.	
37	Check for ground on terminal 35 of terminal strip B.	Ground present.
38c	If circuit under test is provided with SLA relay— Block operated SLA relay.	
39c	Remove blocking tool from F relay.	
40c	Check for ground on terminal 35 of terminal strip B.	Ground present.
41	Remove blocking tool from F or SLA relay.	
42a	If circuit under test is first or intermediate circuit of a terminal hunting group— Remove test connection from terminal strip B of succeeding circuit.	

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- 43a ♦If circuit under test is first or intermediate circuit of terminal hunting group—♦
At relay rack frame—
Connect ground to terminal 35 of terminal strip B of succeeding circuit.
- 44a When circuit under test is idle—
Block operated BY relay.

STEP	ACTION	VERIFICATION
45b	If circuit under test is last circuit of terminal hunting group— At relay rack frame— When circuit is idle— Block operated BY relay.	
46	Check for ground on terminal 35 of terminal strip B.	Ground present.
47	Block operated MB relay.	
48	Remove blocking tool from BY relay.	
49	Check for ground on terminal 35 of terminal strip B.	Ground present.
50	Remove blocking tool from M relay.	
51a	If circuit under test is first or intermediate circuit of a terminal hunting group— Remove test connection from terminal strip B of succeeding circuit.	
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52a	◆If circuit under test is first or intermediate circuit of terminal hunting group—◆ At relay rack frame— Connect ground to terminal 35 of terminal strip B of succeeding circuit.	
53a	When circuit under test is idle— Block operated BY relay.	
54b	If circuit under test is last circuit of terminal hunting group— Block operated BY relay.	
55	Check for ground on terminal 35 of terminal strip B.	Ground present.
56	Block operated SP relay.	
57	Remove blocking tool from BY relay.	
58	Check for ground on terminal 35 of terminal strip B.	Ground present.
59	Block operated LO relay.	
60	Remove blocking tool from SP relay.	

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STEP	ACTION	VERIFICATION
32	Have trunk used in test restored to service at distant office. <i>Note:</i> To test the OF register associated with LLP line group refer to Section 218-535-504, Test V.	
P. Automatic Make Busy		
	<i>Note:</i> This test should be performed during periods of light traffic. If LLP line group consists of twelve or less circuits, all circuits will be made busy during this test.	
1	When circuit under test is idle— At trunk make busy circuit— Block operated LBA relay associated with circuit under test.	
2	At circuit under test— Check for ground on terminal 37 of terminal strip A.	Ground present.
3	At trunk make busy circuit— Remove blocking tool from LBA relay.	LBA relay released.♦