AUXILIARY OUTGOING TRUNKS

SD-25851-01 AND SD-25852-01

FOR USE WITH RINGDOWN INTERTOLL TRUNKS

TESTS USING TRUNK TEST CIRCUIT SD-25918-01

NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section is reissued to include Electronic Translation Systems (ETS) features, and convert the section to standard key selection format. Since this is a general revision, the arrows ordinarily used to indicate changes have been omitted. This reissue affects the Equipment test Lists.

1.02 The tests covered are:

1.03 Tests B, D, and E require action and verification at the master test frame (MTF) and toll switchboard.

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 The manner of selecting some circuits and test conditions at the MTF and its associated circuits varies depending on the apparatus options furnished with these circuits. Therefore, where variable means of selection are provided, precise instructions for the selection of circuits and test

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conditions are not given. Precise instructions for the use of these variable means are given in Section 218-106-301.

1.06 The location statement, At MTF—, is used to refer to all apparatus located on the four basic bays of the MTF.

1.07 On Issue 76D of SD-25800-01, a group of 18 "class of test" lamps was replaced by a single "start test" lamp designated STT. Since the designation given to the lamp is not specific, the lamp will not be called out in the section, as well as the 18 discontinued lamps, such as DT, ORIG, ITDO, ITNP, OGT, etc.

1.08 When the office is arranged for ETS, the distributors and scanners associated with the marker and trunk used in the test call must be in service or in a ***maintenance-busy*** condition - not in an ***out-of-service*** condition. To change a scanner or distributor from an ***out-of-service*** to ***maintenance-busy*** condition, use the procedure given in the following section for the office arrangement.

218-799-701—Taking ETS
Equipment Out-of-Service

1.09 When the trunk under test is arranged for ETS, the first completed test call from the MTF will cause the TST bit to be set in the trunk register associated with the selected trunk, enabling trunk scanning to be repeated on the FT lamp at the MTF trunk test circuit. As long as the TST bit is set in the trunk register, scanning will continue to be repeated on the lamp, even on service calls. The TST bit will remain set in the trunk register until (1) a test call is made from the MTF to another trunk, or (2) the command ***STOP:TRK TST*** is entered at the maintenance TTY.

2. APPARATUS

2.01 Master test control circuit, SD-25800-01,

2.02 Trunk test circuit, SD-25918-01.

Test C

2.03 322A make-busy plug.

Test F

2.04 67C test set or equivalent, equipped with one KS-6278 connecting clip.

Test G

2.05 Oscillator J94730B (SD-95616-01), part of 1A fault locator test set J94730A.

2.06 Testing cord, W1AK cord, 6 feet long, equipped with 1P (P44B, 490) banana plug, one 360B tool, and one 419A tool for testing nonwire-spring type circuits, or one 624B tool for testing wire-spring type circuits.

2.07 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord) and two KS-6278 connecting clips or one KS-6278 connecting clip and one 624B tool, as required (for connecting high resistance ground (HRG) to terminal strip terminals).

3. PREPARATION

Refer to 1.03 through 1.09.

STEP	ACTION	VERIFICATION
Tests A Through E		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Select A through L digits as required to select route under test.	

STEP	ACTION	VERIFICATION
4	Operate FS, TS keys	
5	Select trunk under test.	
6	Select completing marker.	
7	Select route advance as required.	
8	Select TOL subclass of test.	TOL lamp lighted.
9	Operate GPA/GPB key when trunk is in allotted group.	
10	Select originating class of call and associated translator indication.	
11	Operate TLK key.	
12a	If ETS provided— Operate PCS, PTS keys.	

4. METHOD

A. Trunk Seizure and Release

STEP	ACTION	VERIFICATION
13	Select OGT class of test.	
14	Operate TTL key.	
15	Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS, OGT-CS lamps lighted.
16	Operate ANS key.	High tone heard.
17	Restore ANS key.	High tone silenced.
18	Restore TLK key.	If ETS provided— FT lamp extinguished. TAS, OGT-CS lamps extinguished.
19	Restore TOL subclass of test.	TOL lamp extinguished.
20	Momentarily operate RL key.	All lamps extinguished.
21	Restore all keys and switches not required in next test.	

B. Call to Operator in Distant Office

STEP	ACTION	VERIFICATION
13	Select MISC class of test.	

STEP	ACTION	VERIFICATION
14	Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS, OGT-CS lamps lighted. Operator answers.
15	Inform operator that test call is in progress and request operator to ring back.	OGT-CS lamp extinguished during ringback period.
16	Inform operator of intention to rering. Request operator to restore talk key.	
17	Dial digit 1.	Operator answers.
18	Request operator to disconnect.	
19	Restore TLK key.	If ETS provided— FT lamp extinguished. TAS, OGT-CS lamps extinguished.
20	Restore TOL subclass of test.	TOL lamp extinguished.
21	Momentarily operate RL key.	All lamps extinguished.
22	Restore all keys and switches not required in next test.	

C. Trunk Busy

STEP	ACTION	VERIFICATION
13	Select OGT class of test.	
14	Operate TTL key.	
15	Insert make-busy plug into OGT-MB jack of trunk under test.	
16	Momentarily operate ST key.	TB lamp lighted.
17	Momentarily operate RL key.	TB lamp extinguished.
18	Operate NTTS, NTFS keys.	
19	Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS, OGT-CS lamps lighted.
20	Momentarily operate RL key.	TAS, OGT-CS lamps extinguished.
21	Restore TOL subclass of test.	TOL lamp extinguished.
22	Remove make-busy plug from OGT-MB jack of trunk under test.	If ETS provided— FT lamp extinguished.

STEP	ACTION	VERIFICATION
23	Restore all keys and switches not required in next test.	

D. Busy Indications from Toll Switchboard

13	Establish separate talking path to toll switchboard.	
14	Request assistant at toll switchboard to insert idle front cord into trunk jack of trunk under test.	
15	At MTF— Operate TTL, NTTS, NTFS keys.	
16	Select OGT class of test.	
17	Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS, OGT-CS lamps lighted.
18	Momentarily operate RL key.	TAS, OGT-CS lamps extinguished.
19	Operate TS, FS keys.	
20	Momentarily operate ST key.	TB lamp lighted.
21	Restore TOL subclass of test.	TOL lamp extinguished.
22	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
23	At toll switchboard— Remove cord from trunk under test.	If ETS provided— FT lamp extinguished.
24	Restore separate talking path to toll switchboard.	
25	Restore all keys and switches not required in next test.	

E. Busy Indications to Toll Switchboard

13	Select MISC class of test.	
14	Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS, OGT-CS lamps lighted. Called operator answers.
15	Inform operator that test call is in progress.	

STEP	ACTION	VERIFICATION
16	Request operator to disconnect and make a busy test on trunk under test, and reanswer call.	Operator indicates that trunk tested busy.
17	Restore TOL subclass of test.	TOL lamp extinguished.
18	Momentarily operate RL key.	All lamps extinguished.
19	Restore all keys and switches not required in next test.	

F. Trunk Arranged for Pad Control

STEP	ACTION	VERIFICATION
1	At MTF— Insert make-busy plug into OGT-MB jack of trunk under test.	At relay rack location of trunk under test— TM relay not operated. ***For 227-type terminal strip—*** Pad in: Resistance battery on terminal 1. Pad out: Resistance ground on terminal 1 ***For D-type terminal strip—*** Pad in: Resistance battery on terminal 33. Pad out: Resistance ground on terminal 33.
2	At MTF— Remove make-busy plug from OGT-MB jack of trunk under test.	

G. False-Busy and False-Idle Conditions (ETS not Provided)

STEP	ACTION	VERIFICATION
1	At relay rack frame— Connect power to 1A fault locator and operate W-T switch to W position, HR-LRT switch to HR position.	Whistle heard.
2	Connect WT jack of fault locator to terminal of terminal strip on unit as follows: 227-type terminal strip, terminal 10 D-type terminal strip, terminal 45.	Whistle not heard.
3	While circuit being tested is idle— Block operated S1 relay.	If trunk under test is the only idle trunk or the only trunk using same route on same trunk link frame— Whistle heard.
4a	If more than one trunk on same trunk link frame using same route— At MTF— Insert make-busy plugs into OGT-MB jacks of all other circuits using same route on same trunk link frame as trunk under test.	At relay rack frame— Whistle heard when last trunk made busy.

STEP	ACTION	VERIFICATION
5	Momentarily remove blocking tool from S1 relay.	Whistle not heard while blocking tool removed.
6a	If more than one trunk on same trunk link frame using same route— At MTF— Remove make-busy plugs from OGT-MB jacks inserted in step 4a.	Whistle not heard if any trunks idle.
7	At relay rack frame— Connect HRG terminal to terminal of terminal strip on unit as follows: 227-type terminal strip, terminal 9 D-type terminal strip, terminal 44.	
8	Disconnect WT jack of fault locator and connect to terminal as follows: 227-type terminal strip, terminal 11 D-type terminal strip, terminal 15.	Whistle heard.
9	Remove blocking tool from S1 relay.	Whistle not heard.
10	Remove test connections from terminal strip.	