

TRANSVERTER SD-26161-01
TESTS USING MASTER TEST FRAME
NO. 5 CROSSBAR OFFICES

1. GENERAL

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1.01 This section describes a method of testing transverter SD-26161-01 in No. 5 crossbar offices equipped with the master test frame (MTF). The tests also apply when the transverter is arranged for automatic identified outward dialing (AIOD) service.

D. Trouble Detecting Features for Crosses: This test checks that a trouble record is taken when a trouble condition is encountered between the transverter and associated circuits. **4**

1.02 This section is reissued for the following reasons:

E. Translator Selection and Directory Number Register Relays: This test checks that the transverter makes proper translator group selection. This test also checks for transpositions in the directory number relay wiring in the translator and transverter or incorrect translation by an AIOD translator. **5**

- (a) To revise the verification of Steps 9 and 10 of Test C
- (b) To revise the Test Chart for Test C
- (c) To make minor changes as required.

F. Match and No-Match Feature: This test checks the trap feature for locating translator cross-connection errors. **6**

1.03 The tests covered are:

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A. Transfer of Start Lead From Transverter Connector: This test checks that the transverter takes a trouble record when the transverter-connector fails to connect to the first idle transverter in the chain. **3**

1.04 Test C requires making a translator busy.

B. Second Trial Feature: This test checks the second trial feature of the transverter. **3**

1.05 Tests D and E require action at the MTF terminal strips and verification at the trouble recorder. Test D also requires making the trouble recorder busy to all circuits except the transverter under test.

C. Translator Make-Busy Feature: This test checks that when a translator is made busy, the transverter will give the sender a translator-busy indication or will direct an AIOD call to an operator. This test also checks the cancel make-busy feature, if provided, of the transverter when the AIOD translator is manually made busy. **3**

1.06 The Test Chart in Part 5 has spaces provided for listing specific keys and key units to be operated for each test, depending on local conditions. These charts should be filled out from local records in accordance with instructions provided in Part 5, Preparation of Test Charts.

1.07 Tests of trouble detecting features, other than those covered in Test D, are included in Section 218-737-501.

1.08 Lettered Steps: A letter a, b, c, etc, added to a step number in Part 4 of this section indicates an action which may or may not

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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.

1.09 Local instructions should be followed for recording and reporting any TR (trouble recorder) and usage register operations caused by performing these tests.

1.10 Depending upon the issue of the drawings to which the MTF is wired, the selection of circuits such as markers and recorders and the selection of class of test, class of service, etc, may be controlled by the operation of a key, the setting of a rotary switch, or both. In order to simplify the instructions in ACTION for making such selections, the statement will be made without specifying either keys or switches with the specific action being determined by the apparatus furnished on a particular test frame. For example:

STEP	ACTION
1	Operate MT- or MTT1, MTU- to select marker under test.

3. PREPARATION

STEP	ACTION	VERIFICATION
All Tests		
1	At MTF— Restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Operate MT- or MTT1, MTU- to select transverter to be tested.	
4	◆Operate ANI, TVTC, TVT or TSTB (TVT) as required.◆	

(Interpreted to mean: Operate MT- key or set MT switch; or operate MTT1 key and set MTU switch.)

2 Operate TVT or TSTB (TVT).
(Interpreted to mean: Operate TVT key or set TSTB switch to TVT position.)

2. APPARATUS

All Tests

2.01 Master test control circuit SD-25800-01.

Test C

2.02 Jack, lamp, and key circuit SD-25762-01.

Tests C and D

2.03 322A (make-busy) plugs as required.

Test D

2.04 Testing cord, 893 cord, 3 feet long, equipped with two 360A tools (1W13A cord) and two KS-6278 connecting clips.

STEP	ACTION	VERIFICATION
4. METHOD		

STEP	ACTION	VERIFICATION
A. Transfer of Start Lead From Transverter Connector		

5	Operate keys in accordance with Test 1 in Test Chart.	
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6	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. TRS designation perforated.
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7	Momentarily operate RL key.	All lamps extinguished.
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8a	If no further tests are to be made— Restore all keys; set all switches to OFF.	
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B. Second Trial Feature		
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5	Operate keys in accordance with Test 2 in Test Chart.	
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6	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. 2TR designation perforated.
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7	Momentarily operate RL key.	All lamps extinguished.
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8	Restore TR2, REC keys.	
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9a	If no further tests are to be made— Restore all keys; set all switches to OFF.	
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C. Translator Make-Busy Feature		
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5	Operate keys in accordance with Test 3 in Test Chart.	
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6	At jack, lamp, and key circuit— Insert make-busy plug into TVMB- jack of transverter under test.	
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Note: Determine the translator associated with the equipment line or trunk location setup on FT-, FU-, VG-, HG-, VF-.

7a	If AIOD feature is provided— At MTF— Operate OFU-, OFT- or OI (1 or 2) to select office index.	
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STEP	ACTION	VERIFICATION
8	At jack, lamp, and key circuit— Insert make-busy plug into AMAT-MB or AIODT-MB jack of translator. <i>Caution: In ANI offices, calls made by customers served by the translator under test will require operator identification. When AIOD is provided, calls made by PBX stations will be billed to the listed PBX directory number. This test should therefore be made as rapidly as possible to reduce to a minimum the time the translator is out of service.</i>	
9	At MTF— Momentarily operate ST key.	◆BT-OF lamp lighted.◆ Trouble record taken. TRIT designation perforated.
10	Momentarily operate RL key.	All lamps extinguished.
11b	If AIOD translator is made busy and transverter is arranged to override a manually made-busy translator— Operate CTMB key.	
12b	Operate TP key.	
13b	Operate TSLT key, if provided.	
14b	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. Proper trunk location, translated trunk number, office code, and TPT designations perforated.
15b	Momentarily operate RL key.	All lamps extinguished.
16	At jack, lamp, and key circuit— Remove make-busy plugs from TVMB- and AMAT-MB or AIODT-MB jacks.	
17c	If no further tests are to be made— At MTF— Restore all keys; set all switches to OFF.	

D. Trouble Detecting Features for Crosses

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| 5 | Operate keys in accordance with Test 4 in Test Chart. | |
| 6a | If automatic monitor is provided—
Restore STM-STT key to normal. | |

STEP	ACTION	VERIFICATION
7	At jack, lamp, and key circuit— Make busy trouble recorder to all circuits except transverter under test by inserting make-busy plugs into TRMB- jacks.	
8	At transverter frame— Interconnect terminals 10, 11 on TR-TVC part of terminal strip C.	
9	At MTF— Momentarily operate ST key.	Trouble record taken. G0, G1, XVG or FS-G0, FS-G1 designations perforated.
10	Momentarily operate RL key.	
11	At transverter frame— Remove testing cord from terminals 10, 11.	
12	At jack, lamp, and key circuit— Remove make-busy plugs from TRMB- jacks.	
13b	If no further tests are to be made— At MTF— Restore all keys; set all switches to OFF.	

E. Translator Selection and Directory Number Register Relays

5	Operate keys in accordance with Tests 5 through 38 in Test Chart.	
6a	If AIOD feature is provided— Operate OFU-, OFT- or OI (1 or 2) to select office index.	
7a	Operate TP key.	
8a	Operate TSLT key, if provided.	
9	Momentarily operate ST key.	MRL lamp lighted. Trouble record taken. Proper line link equipment or trunk location, directory number or translated trunk number, office code, RPT or TPT designations perforated.
10	Momentarily operate RL key.	All lamps extinguished.
11b	If no further tests are to be made— Restore all keys; set all switches to OFF.	

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STEP	ACTION	VERIFICATION
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F. Match and No-Match Feature

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| 5 | Operate keys in accordance with Test 39 in Test Chart. | |
| 6 | At transverter frame—
Set rotary switches OF, TH, HN, T, U to positions corresponding to directory or billing number assigned equipment location setup in Step 5. | |
| 7 | At MTF—
Momentarily operate ST key. | Trouble record taken.
OBS designation perforated. |
| 8 | Momentarily operate RL key. | |
| 9 | Operate REC key. | |
| 10 | At transverter frame—
Change position of one of the rotary switches. | |
| 11 | At MTF—
Momentarily operate ST key. | Trouble record taken.
NOB designation perforated. |
| 12 | Momentarily operate RL key. | |
| 13 | At transverter frame—
Restore all rotary switches to OFF. | |
| | <i>Note:</i> If one rotary switch is left in any position other than OFF, the transverter may release on certain calls. | |
| 14 | At MTF—
Restore all keys; set all switches to OFF. | |

5. PREPARATION OF TEST CHART

5.01 The Test Chart is intended for use as a particular number chart. This chart shows the MTF keys or switches to be operated for each test. Information obtained from local office records should be used to fill in the Test Chart in the following manner:

- (1) In FT-, FU-, VG-, HG-, and VF- columns, enter the line location of calling number. (The line location must have a cross-connection in the translator.)
- (2) If tip party is necessary, record TP keys in the MISCELLANEOUS KEYS OR SWITCHES column.

5.02 Tests A, B, C, and F

- (1) Apply (1) and (2) of 5.01.

5.03 Test D

- (1) Determine from local office records the equipment location for a calling line that is served by the G0 relay in any translator and record in FT-, FU-, VG-, HG-, and VF- columns the key or switch setting corresponding to the calling line.

- (2) Apply (2) of 5.01.

5.04 Test E

(1) Determine from local office records the line or trunk location and corresponding directory or translated trunk number for a line or trunk in each vertical group associated with each translator. Select these lines so that the line

directory or trunk numbers include each of numerals 0 through 9 in each office, thousands, hundreds, tens, and units digits for which each translator is wired.

(2) One called number may be used for all tests.

(3) Apply (2) of 5.01.

TEST CHART (Cont)

TYPE OF TEST	BSP TEST	TEST NO.	FT-	FU-	VG-	HG-	VF-	MISCELLANEOUS KEYS OR SWITCHES
	E (Cont)	21	—	—	—	—	—	REC
		22	—	—	—	—	—	REC
		23	—	—	—	—	—	REC
		24	—	—	—	—	—	REC
		25	—	—	—	—	—	REC
		26	—	—	—	—	—	REC
		27	—	—	—	—	—	REC
		28	—	—	—	—	—	REC
		29	—	—	—	—	—	REC
		30	—	—	—	—	—	REC
		31	—	—	—	—	—	REC
		32	—	—	—	—	—	REC
		33	—	—	—	—	—	REC
		34	—	—	—	—	—	REC
		35	—	—	—	—	—	REC
		36	—	—	—	—	—	REC
		37	—	—	—	—	—	REC
		38	—	—	—	—	—	REC
Match and No- Match Feature	F	39	—	—	—	—	—	

Test Chart (Cont)