OUTGOING TRUNK CIRCUIT TO ACD SD-97578-01

TRANSMISSION TESTS

NO. 1 TRUNK CONCENTRATOR

1. GENERAL

1.01 This section describes the methods of making transmission measurements on outgoing trunks circuits from the No. 1 trunk concentrator (No. 1 TC). The transmission measurements covered in this section include loss and message circuit noise.

1.02 This section is reissued to delete Tests C, AD, and AE. These tests are not applicable to these types of trunks. This reissue affects the Equipment Test List.

1.03 The tests covered are:

1.04 The tests and procedures in this section are identified by a special designation plan. Single test letters A through Z are reserved for tests which require no assistance at the terminating end. Double test letters AA through AZ are reserved for near-end originated tests that require assistance at the far end. The tests and procedures for the far end offices are contained in the trunk transmission sections covering the far-end ACD office involved.

1.05 Transmission requirements for trunks are shown on circuit layout cards, on local trunk records, or in the appropriate section of the practices.

1.06 The results of these tests should be entered on the proper form.

1.07 Precautions should be taken when performing these tests so that normal traffic will not be adversely affected.

1.08 The transmission loss indicated by the transmission measuring set (TMS) meter is the actual measured loss (AML) in dB of the circuit under test and is made under the same conditions as expected measured loss (EML) was computed.

1.09 For Test AB, caution should be taken when using a continuously variable oscillator not

to sweep through 2400 or 2600 Hz on a trunk that uses a single frequency signaling unit.

1.10 After the trunk under test has been connected to a 101-type test line, Tests AA through AC can be performed on the same trunk without releasing the trunk from the test line.

1.11 ***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 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.

2. APPARATUS

2.01 The apparatus required for each test is shown in Table A. A more descriptive name and additional information on each item are covered in the paragraph indicated by the number in parentheses. Calibration and operating procedures for each set may be found in the section listed with each test set. ***It is important that the transmission test equipment is known to be accurately calibrated.***

2.02 TC portable trunk test set SD-97576-01.

2.03 23A transmission measuring set (TMS) (Section 103-223-100).

2.04 3A or 3C noise measuring set (NMS) J94003A or J94003C equipped with a 723A receiver (Section 103-611-100 or 103-611-101).

Note: The 3A set requires a 723 receiver with a special cord assembly (2W46A) which has a built-in 15,000-ohm resistor to reduce the bridging effect of the receiver on the meter indications. The cord (W2FS) used with the 723 receiver of the 3C set has no built-in resistor. Care should therefore be exercised to avoid the association of the wrong receiver and cord assembly with the 3A and 3C sets. Use of the receiver and cord of the 3C set with the 3A set will result in erroneous indications. Use of the receiver and cord of the 3A set with the 3C set will result in low receiver output.

2.05 KS-19353, L1 or L4 oscillator (OSC) (Sections 103-302-105 and 103-302-106, respectively).

Note: The oscillator should be adjusted to desired output level as measured with the 23-type TMS with the input key operated to 600 or 900 depending on the oscillator output jack used on the position of the oscillator function switch. With the KS-19353 L1 OSC the output should be checked after each change in frequency.

2.06 Patching cord, P3E cord, 6 feet long, equipped with 310 plugs on each end (3P7A cord).

2.07 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord) and two KS-6278 connecting clips for connecting ground to NMS.

2.08 Patching cord, P2AE cord, 4 feet long, equipped with a 310 plug and 289B plug (2P16A cord).

2.09 262B plug (600-ohm termination).

2.10 52M head telephone set.

3. PREPARATION

3.01 ***Each test set should be calibrated in accordance with the appropriate section of the practices before it is used. (See Part 2).*** Details of operation of the test sets can be found in those sections.

STEP	ACTION	VERIFICATION
All Tests		
1	At TC test set— Restore all keys and switches to normal.	
2	Plug head telephone set into TEL A and TEL B jacks.	

STEP	ACTION	VERIFICATION

TABLE A

APPARATUS	TESTS					
	A	B	D	AA	AB	AC
TC Test Set (2.02)	1	1	1	1	1	1
23A TMS (2.03)	1		1	1	1	
3A or 3C NMS (2.04)		1				1
KS-19353 Oscillator (2.05)					1	
Patching Cord (2.06)	4	4**	5	5	5	4**
Testing Cord (2.07)		1				1
Patching Cord (2.08)		1**				1**
262B Plug (2.09)						1
Head Telephone Set (2.10)	1	1	1	1	1	1

** 2P16A cord required for connection to 3A NMS.
3P7A cord required for connection to 3C NMS.

3	At outgoing trunk frame— Operate MB_ key associated with trunk to be tested.	MB_ lamp lighted.
4	Using 3P7A cord, connect RCV1 jack to RCV jack on outgoing trunk frame associated with trunk to be tested.	
5	Using 3P7A cord, connect TRT2 jack to TRMT jack on outgoing trunk frame associated with trunk to be tested.	

STEP	ACTION	VERIFICATION
	Caution: To avoid possible grounding of battery supply lead, connect cord to test set first, and when disconnecting, remove cord from test set last.	
6	Using 3P7A cord, connect -48V jack to -48V supply jack on outgoing trunk frame.	
7	At outgoing trunk frame— Operate BCO key.	♦BCO lamp lighted.♦
8	At TC test set— Operate -48V key.	-48V lamp lighted.
9	Rotate TTS switch to OGT.	
10a	If outgoing trunk is associated with single frequency (SF) signaling— At TC test set— Operate SF key.	SF lamp lighted.
Tests A, D, AA, and AB		
11	At TC test set— Using 3P7A cord, connect RCV2 jack to 310 MEAS jack of 23A TMS.	
12	At TMS— Operate DIAL-MEAS-SLV key to MEAS.	
13	Operate INPUT key to 600.	
14	Set ADD DBM switch to -5.	
Tests B and AC		
15b	If using 3C NMS— At TC test set— Using 3P7A cord, connect RCV2 jack to IN jack of 3C NMS.	
16b	At 3C NMS— Set FUNCTION switch to NM600/900.	
17c	If using 3A NMS— At TC test set— Using 2P16A cord, connect RCV2 jack to IN jack of 3A NMS.	
18c	Set FUNCTION switch to NM 600.	

STEP	ACTION	VERIFICATION
19	At 3A or 3C NMS— Using 893 cord, connect GND binding post to ground.	
20	Connect 723A receiver to AC MON jack (see 2.04).	
4. METHOD		
A. One-Way 1000-Hz Loss Measurement to 102-Type Test Line (Fig. 1)		
15	At TC test set— Operate T-TN key.	T-TN lamp lighted.
16	Operate and hold T-T key.	When testing trunks associated with single frequency signaling— OH and TTT lamps lighted. When testing trunks not associated with single frequency signaling— OH lamp lighted.
17	Release T-T key.	
18	Operate TONE key.	MFT lamp lighted. Interrupted dial tone heard in head telephone set.
19	Key in digit 2.	After far-end switching equipment makes connection to 102-type test line— 1000-Hz tone heard in head telephone set.
20	Restore TONE key to normal.	MFT lamp extinguished.
21b	If TC is colocated with the ACD— At TC test set— Operate RCV1 key.	RCV1 lamp lighted. TMS indicates -5 dBm (far-to-near transmission loss).
22c	If TC is remotely located from the ACD— At TC test set— Operate 10 DB key.	10 DB lamp lighted.
23c	Operate RCV2 key.	RCV2 lamp lighted. TMS indicates far-to-near transmission loss.
24	Record TMS indication on proper form per local instructions.	
25a	If outgoing trunk is associated with single frequency signaling— At TC test set— Restore SF key.	TTT and SF lamps extinguished.

STEP	ACTION	VERIFICATION
26	At TC test set— Restore T-TN key to normal.	
27	Restore RCV1 or RCV2 key to normal.	RCV1 or RCV2 lamp extinguished.
28	Momentarily operate RL key.	All lamps extinguished.
29	At outgoing trunk frame— Remove 3P7A cord from RCV jack associated with trunk under test.	
30	Restore MB_ key to normal.	MB_ lamp extinguished.
31d	If other trunks are to be tested— At outgoing trunk frame— Operate MB_ key associated with next trunk to be tested.	
32d	Using 3P7A cord, connect RCV jack of trunk made busy in Step 31d to RCV1 jack on TC test set.	
33d	Repeat Steps 4, 5, and 10a in PREPARATION and Steps 15 through 32d for other trunks to be tested.	
33e	If no other tests are to be made— Remove all cords; restore all keys.	
B. Message Circuit Noise Measurement to 100-Type Test Line (Fig. 1)		
21	At TC test set— Operate T-TN key.	T-TN lamp lighted.
22	Operate and hold T-T key.	When testing trunks associated with single frequency signaling— OH and TTT lamps lighted. When testing trunks not associated with single frequency signaling— OH lamp lighted.
23	Release T-T key.	
24	Operate TONE key.	MFT lamp lighted. Interrupted dial tone heard in head telephone set.
25	Key in digit 0.	After far-end switching equipment completes connection to 100-type test line— 1000-Hz tone heard in head telephone set for 5.5 seconds, then goes quiet.

STEP	ACTION	VERIFICATION
26	Restore TONE key to normal.	MFT lamp extinguished.
27d	If TC is colocated with the ACD— At TC test set— Operate RCV1 key.	RCV1 lamp lighted. 3A or 3C NMS indicates near-end noise. Character of noise heard in 723A receiver.
28e	If TC is remotely located from the ACD— At TC test set— Operate RCV2 key.	RCV2 lamp lighted. 3A or 3C NMS indicates near-end noise. Character of noise heard in 723A receiver.
29	Record noise measurement in accordance with local instructions.	
30a	If outgoing trunk is associated with single frequency signaling— At TC test set— Restore SF key.	TTT and SF lamps extinguished.
31	At TC test set— Restore T-TN key to normal.	
32	Restore RCV1 or RCV2 key to normal.	RCV1 or RCV2 lamp extinguished.
33	Momentarily operate RL key.	All lamps extinguished.
34	At outgoing trunk frame— Remove 3P7A cord from RCV jack associated with trunk under test.	
35	Restore MB_ key to normal.	MB_ lamp extinguished.
36f	If other trunks are to be tested— At outgoing trunk frame— Operate MB_ key associated with next trunk to be tested.	
37f	Using 3P7A cord, connect RCV jack of trunk made busy in Step 36f to RCV1 jack on TC test set.	
38f	Repeat Steps 4, 5, and 10a in PREPARATION and Steps 21 through 37f for other trunks to be tested.	
39g	If no other tests are to be made— Remove all cords; restore all keys.	

C. Deleted

STEP	ACTION	VERIFICATION
D. Two-Way 1000-Hz Measurement and One-Way Noise Check to 104-Type Test Line (Fig. 2)		
15	At TC test set— Using 3P7A cord, connect TRT1 jack to MW0 jack on outgoing trunk frame.	
16	At TC test set— Operate T-TN key.	T-TN lamp lighted.
17	Operate and hold T-T key.	When testing trunks associated with single frequency signaling— OH and TTT lamps lighted. When testing trunks not associated with single frequency signaling— OH lamp lighted.
18	Release T-T key.	
19	Operate TONE key.	MFT lamp lighted. Interrupted dial tone heard in head telephone set.
20	Key in digit 4.	After far-end switching equipment completes connection to 104-type test line— Test progress tone (2225-Hz) heard in head telephone set. ***Note:*** Removal of test progress tone within 30 seconds indicates that the far-end measuring equipment is connected.
21b	If TC is colocated with the ACD— At TC test set— Operate TRT1 key.	TRT1 lamp lighted. Near-to-far transmission loss measurement performed. Data stored at 104-type test line equipment.
22c	If TC is remotely located from ACD— At TC test set— Operate 10 DB key.	10 DB lamp lighted.
23c	Operate TRT2 key.	TRT2 lamp lighted. Near-to-far transmission loss measurement performed. Data stored at 104-type test line equipment.
24b	If TC is colocated with the ACD— After 3-second interval of 10-second 1000-Hz tone is heard— Operate RCV1 key.	Short burst of 2225-Hz tone or 10-second interval of 1000-Hz tone heard in head telephone set. RCV1 lamp lighted.

STEP	ACTION	VERIFICATION
25c	If TC is remotely located from ACD— After 3-second interval of 10-second 1000-Hz tone is heard— At TC test set— Operate RCV2 key.	Short burst of 2225-Hz tone or 10-second interval of 1000-Hz tone heard in head telephone set. RCV2 lamp lighted.
26d	If short burst of 2225-Hz tone heard in Step 24b or 25c— Operate RL key.	
27d	Repeat Steps 16 through 25c.	
28	After 1000-Hz tone heard in Step 24b or 25c— Restore TONE key.	MFT lamp extinguished. 23A TMS indicates far-to-near transmission loss. ***Note:*** If after first 10-second interval of 1000-Hz tone, 2225-Hz tone is heard, add 10 dB to TMS indication in next step.
29	After first 10-second interval of 1000-Hz tone returned— Far-end 104-type test line transmits 1000-Hz tone again for second 10-second interval.	23A TMS indicates sum of near-to-far and far-to-near transmission losses.
30	Subtract TMS indication observed in Step 28 from indication observed in Step 29.	Result is near-to-far transmission loss.
31	After second 10-second interval of 1000-Hz tone received— Operate TONE key.	MFT lamp lighted. 2225-Hz tone heard in head telephone set. ***Note:*** If steady 2225-Hz tone is heard far-end noise does not exceed 41 dBrnc. If interrupted 2225-Hz tone is heard far-end noise exceeds 41 dBrnc.
32a	If outgoing trunk is associated with single frequency signaling— At TC test set— Restore SF key.	TTT and SF lamps extinguished.
33	At TC test set— Restore T-TN key to normal.	
34	Restore RCV1 or RCV2 key to normal.	RCV1 or RCV2 lamp extinguished.
35	Momentarily operate RL key.	All lamps extinguished.
36	At outgoing trunk frame— Remove 3P7A cord from RCV jack associated with trunk under test.	

STEP	ACTION	VERIFICATION
37	Restore MB_ key to normal.	MB_ lamp extinguished.
38e	If other trunks are to be tested— At outgoing trunk frame— Operate MB_ key associated with next trunk to be tested.	
39e	Using 3P7A cord, connect RCV jack of trunk made busy in Step 38f to RCV1 jack on TC test set.	
40e	Repeat Steps 4, 5, and 10a in PREPARATION and Steps 15 through 39e for other trunks to be tested.	
41f	If no other tests are to be made— Remove all cords; restore all keys.	
AA.	**Two-Way 1000-Hz Loss Measurement to 101-Type Test Line—Originating End Procedures (Fig. 3)**	
15	At TC test set— Using 3P7A cord, connect TRT1 jack to MW0 jack on outgoing trunk frame.	
16	At TC test set— Operate T-TN key.	T-TN lamp lighted.
17	Operate and hold T-T key.	When testing trunks associated with single frequency signaling— OH and TTT lamps lighted. When testing trunks not associated with single frequency signaling— OH lamp lighted.
18	Release T-T key.	
19	Operate TONE key.	MFT lamp lighted. Interrupted dial tone heard in head telephone set.
20	Restore TONE key to normal.	MFT lamp extinguished.
21	Key in digit 1.	After far-end switching equipment completes connection to 101-type test line— Maintenance personnel at far-end answers call.
22	Operate TALK key.	TALK lamp lighted.
23	Request terminating end to connect 0 dBm 1000-Hz tone to trunk under test for agreed upon interval.	1000-Hz tone heard in head telephone set.

STEP	ACTION	VERIFICATION
24	Restore TALK key to normal.	TALK lamp extinguished.
25b	If TC is colocated with the ACD— At TC test set— Operate RCV key.	RCV1 lamp lighted. 23A TMS indicates far-to-near transmission loss.
26c	If TC is remotely located from the ACD— Operate 10 DB key.	10 DB lamp lighted.
27c	Operate RCV2 key.	RCV2 lamp lighted. 23A TMS indicates far-to-near transmission loss.
28	Record TMS indication.	
29	Restore RCV1 or RCV2 key to normal.	RCV1 or RCV2 lamp extinguished.
30	Operate TALK key.	TALK lamp lighted.
31	Request terminating end to measure. ***Note:*** If far-end talk level is too low, restore 10 DB key to normal (if operated).	
32	Restore TALK key to normal.	TALK lamp extinguished.
33b	If TC is colocated with the ACD— At TC test set— Operate TRT1 key.	TRT1 lamp lighted. 1000-Hz tone transmitted toward far-end.
34c	If TC is remotely located from the ACD— At TC test set— Operate TRT2 key.	TRT2 lamp lighted. 1000-Hz tone transmitted toward far-end.
35	After agreed upon interval— Restore TRT1 or TRT2 key to normal.	TRT1 or TRT2 lamp extinguished.
36	Operate TALK key.	TALK lamp lighted.
37	Obtain and record near-to-far transmission loss from distant end.	
38	Restore TALK key to normal.	TALK lamp extinguished.
39a	If outgoing trunk is associated with single frequency signaling— At TC test set— Restore SF key.	TTT and SF lamps extinguished.
40	At TC test set— Restore T-TN key to normal.	All lamps extinguished.

STEP	ACTION	VERIFICATION
41	Momentarily operate RL key.	
42	At outgoing trunk frame— Remove 3P7A cord from RCV jack associated with trunk under test.	
43	Restore MB_ key to normal.	MB_ lamp extinguished.
44d	If other trunks are to be tested— At outgoing trunk frame— Operate MB_ key associated with next trunk to be tested.	
45d	Using 3P7A cord, connect RCV jack of trunk made busy in Step 44d to RCV1 jack on TC test set.	
46d	Repeat Steps 4, 5, and 10a in PREPARATION and Steps 15 through 45d for other trunks to be tested.	
47e	If no other tests are to be made— Remove all cords; restore all keys.	

AB. Two-Way Frequency Response Measurement to 101-Type Test Line—Originating End Procedures

15	At TC test set— Using 3P7A cord, connect TRT1 jack to OUTPUT 310 jack of portable oscillator.	
16	At portable oscillator— Set FUNCTION switch to 600.	
17	At TC test set— Operate T-TN key.	T-TN lamp lighted.
18	Operate and hold T-T key.	When testing trunks associated with single frequency signaling— OH and TTT lamps lighted. When testing trunks not associated with single frequency signaling— OH lamp lighted.
19	Release T-T key.	
20	Operate TONE key.	MFT lamp lighted. Interrupted dial tone heard in head telephone set.
21	Restore TONE key to normal.	MFT lamp extinguished.

STEP	ACTION	VERIFICATION
22	Key in digit 1.	After far-end switching equipment completes connection to 101-type test line— Maintenance personnel at far-end answers call.
23	Operate TALK key.	TALK lamp lighted.
24	Request distant end to send first required frequency at 0 dBm for agreed upon length of time.	Tone heard in head telephone set.
25	Restore TALK key to normal.	TALK lamp extinguished.
26b	If TC is colocated with the ACD— At TC test set— Operate RCV1 key.	RCV1 lamp lighted. 23A TMS indicates far-to-near transmission loss of first frequency.
27c	If TC is remotely located from the ACD— Operate 10 DB key.	10 DB lamp lighted.
28c	Operate RCV2 key.	RCV2 lamp lighted. 23A TMS indicates far-to-near transmission loss of first frequency.
29	Record TMS indication.	
30	Restore RCV1 or RCV2 key to normal.	RCV1 or RCV2 lamp extinguished.
31	Operate TALK key.	TALK lamp lighted.
	Note: If far end talk level is too low, restore 10 DB key to normal (if operated).	
32	Request distant end to send next frequency at 0 dBm for agreed upon length of time.	
33	Restore TALK key to normal.	TALK lamp extinguished.
34b	If TC is colocated with the ACD— At TC test set— Operate RCV1 key.	RCV1 lamp lighted. 23A TMS indicates far-to-near transmission loss.
35c	If TC is remotely located from the ACD— At TC test set— Operate RCV2 key.	RCV2 lamp lighted. 23A TMS indicates far-to-near transmission loss.
36	Record TMS indication.	
37	Restore RCV1 or RCV2 key to normal.	RCV1 or RCV2 lamp extinguished.
38	Repeat Steps 31 through 37 for other frequencies to be tested.	

STEP	ACTION	VERIFICATION
39	Operate TALK key.	TALK lamp lighted.
40	Request distant end to prepare to measure frequencies.	
41	Adjust oscillator to send first required frequency at 0 dBm.	
42	Restore TALK key to normal.	TALK lamp extinguished.
43b	If TC is colocated with the ACD— At TC test set— Operate TRT1 key.	TRT1 lamp lighted. Test tone transmitted to ACD office.
44c	If TC is remotely located from the ACD— At TC test set— Operate 10 DB key.	10 DB lamp lighted.
45c	Operate TRT2 key.	TRT2 lamp lighted. Test tone transmitted to ACD office.
46	After agreed upon length of time— Restore TRT1 or TRT2 key to normal.	TRT1 or TRT2 lamp extinguished.
47	Operate TALK key.	TALK lamp lighted.
	Note: If far-end talk level is too low, restore 10 DB key to normal (if operated).	
48	Obtain near-to-far transmission loss indication from distant end; record reading.	
49	Adjust oscillator to send next required frequency at 0 dBm.	
50	Request distant end to prepare to measure next frequency.	
51	Restore TALK key to normal.	TALK lamp extinguished.
52b	If TC is colocated with the ACD— At TC test set— Operate TRT1 key.	TRT1 lamp lighted. Test tone transmitted to ACD office.
53c	If TC is remotely located from the ACD— At TC test set— Operate 10 DB key (if normal).	10 DB lamp lighted.
54c	Operate TRT2 key.	TRT2 lamp lighted. Test tone transmitted to ACD office.
55	Restore TRT1 or TRT2 key to normal.	TRT1 or TRT2 lamp extinguished.

STEP	ACTION	VERIFICATION
56	Operate TALK key.	TALK lamp lighted.
57	Obtain near-to-far transmission indication from distant end; record reading.	
58	Restore TALK key to normal.	TALK lamp extinguished.
59	Repeat Steps 49 through 58 for other frequencies to be tested.	
60a	If outgoing trunk is associated with single frequency signaling— At TC test set— Restore SF key.	TTT and SF lamps extinguished.
61	At TC test set— Restore T-TN key to normal.	
62	Momentarily operate RL key.	All lamps extinguished.
63	At outgoing trunk frame— Remove 3P7A cord from RCV jack associated with trunk under test.	
64	Restore MB_ key to normal.	MB_ lamp extinguished.
65d	If other trunks are to be tested— At outgoing trunk frame— Operate MB_ key associated with next trunk to be tested.	
66d	Using 3P7A cord, connect RCV jack of trunk made busy in Step 65d to RCV1 jack on TC test set.	
67d	Repeat Steps 4, 5, and 10a in PREPARATION and Steps 15 through 66d for other trunks to be tested.	
68e	If no other tests are to be made— Remove all cords; restore all keys.	

AC. Message Circuit Noise Measurement to 101-Type Test Line—Originating End Procedures (Fig. 3)

21	At TC test set— Insert 262B plug into TRT1 jack.	
22	At TC test set— Operate T-TN key.	T-TN lamp lighted.

STEP	ACTION	VERIFICATION
23	Operate and hold T-T key.	When testing trunks associated with single frequency signaling— OH and TTT lamps lighted. When testing trunks not associated with single frequency signaling— OH lamp lighted.
24	Release T-T key.	
25	Operate TONE key.	MFT lamp lighted. Interrupted dial tone heard in head telephone set.
26	Restore TONE key to normal.	MFT lamp extinguished.
27	Key in digit 1.	After far-end switching equipment completes connection to 101-type test line— Maintenance personnel at far-end answers call.
28	Operate TALK key.	TALK lamp lighted.
29	Request distant end to connect far-end noise measuring equipment for agreed upon time interval.	
30	Restore TALK key to normal.	TALK lamp extinguished.
31d	If TC is colocated with the ACD— At TC test set— Operate TRT1 key.	TRT1 lamp lighted. Noise meter at far-end indicates noise measurement and character of noise.
32e	If TC is remotely located from the ACD— At TC test set— Operate 10 DB key.	10 DB lamp lighted.
33e	Operate TRT2 key.	TRT2 lamp lighted. Noise meter at far-end indicates noise measurement and character of noise.
34	Restore TRT1 or TRT2 key to normal.	TRT1 or TRT2 lamp extinguished.
35	At TC test set— Operate TALK key.	TALK lamp lighted.
	Note: If far-end talk level is too low, restore 10 DB key to normal (if operated).	
36	Obtain near-end noise measurement and character of noise from distant end; record indication.	

STEP	ACTION	VERIFICATION
37	Request distant end to provide a balance termination for agreed upon time interval.	
38	Restore TALK key to normal.	TALK lamp extinguished.
39d	If TC is colocated with the ACD— At TC test set— Operate RCV1 key.	RCV1 lamp lighted. 3A or 3C NMS indicates noise measurement. Character of noise heard in 723A receiver.
40e	If TC is remotely located from the ACD— At TC test set— Operate RCV2 key.	RCV2 lamp lighted. 3A or 3C NMS indicates noise measurement. Character of noise heard in 723A receiver.
41	Record noise measurement and character of noise.	
42	Restore RCV1 or RCV2 key to normal.	
43a	If outgoing trunk is associated with single frequency signaling— At TC test set— Restore SF key.	TTT and SF lamps extinguished.
44	At TC test set— Restore T-TN key to normal.	
45	Momentarily operate RL key.	All lamps extinguished.
46	At outgoing trunk frame— Remove 3P7A cord from RCV jack associated with trunk under test.	
47	Restore MB_ key to normal.	MB_ lamp extinguished.
48f	If other trunks are to be tested— At outgoing trunk frame— Operate MB_ key associated with next trunk to be tested.	
49f	Using 3P7A cord, connect RCV jack of trunk made busy in Step 48f to RCV1 jack on TC test set.	
50f	Repeat Steps 4, 5, and 10a in PREPARATON and Steps 21 through 49f for other trunks to be tested.	
51g	If no other tests are to be made— Remove all cords; restore all keys.	

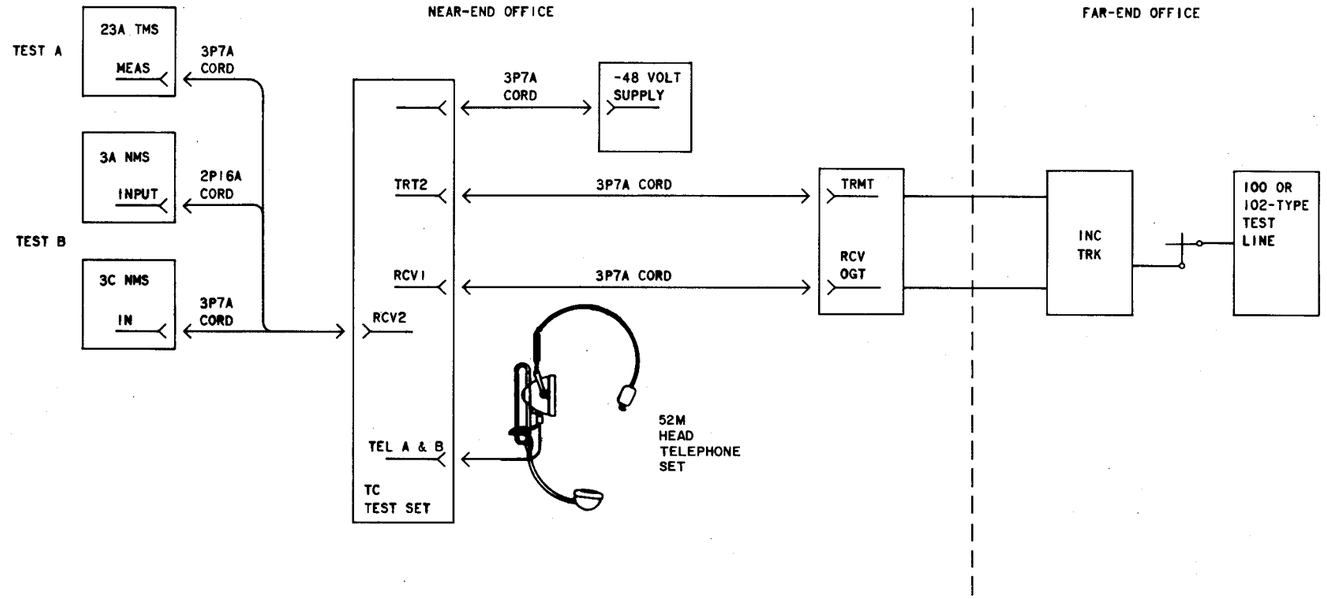

Fig. 1—Test Connections—Tests A and B

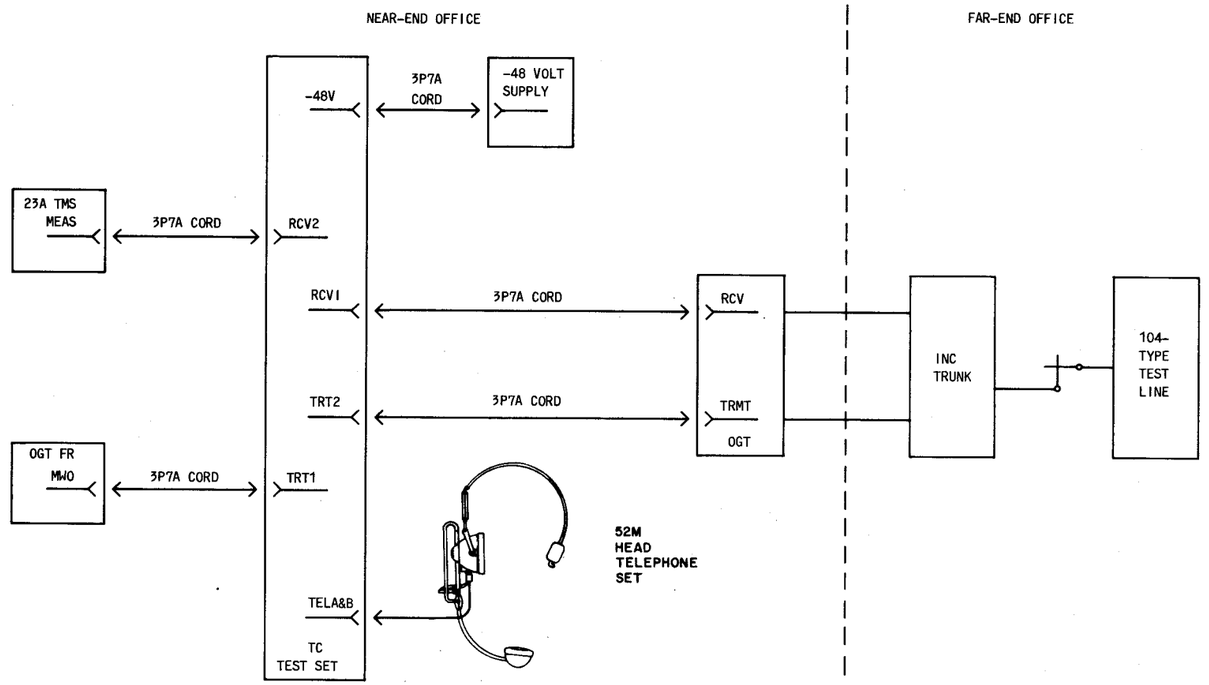

Fig. 2—Test Connections—Test D

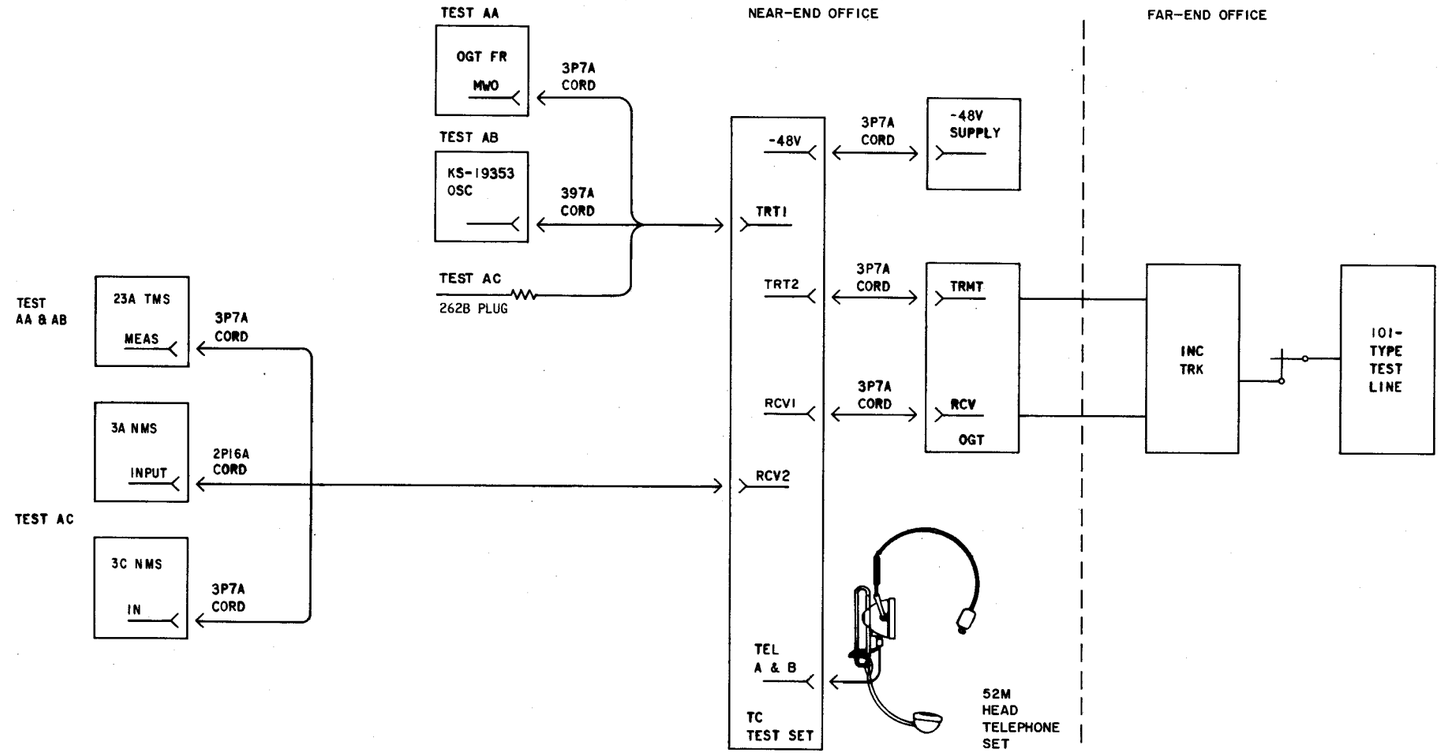

Fig. 3—Test Connections—Tests AA through AC