

**NO. 5 CROSSBAR OFFICES  
CALL-THROUGH TEST TO PBX  
USING TRUNK TEST CIRCUIT SD-25918-01**

**1. GENERAL**

**1.01** This appendix supplements Section 218-113-501 and is issued to cover the Call-Through Test to PBX.

**1.02** *Call-Through Test to PBX:* This test simulates the in-service function of the circuit with a sender and checks that incoming equipment at the PBX functions properly. In addition, the Stop-Go feature, when provided at a PBX, can be verified.

**1.03** *Lettered Steps:* A letter a, b, c, etc, added to a step number 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.

**1.04** The manner of selecting some circuits and test conditions at the master test frame (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 conditions are not given. Precise instructions for the use of these variable means are given in Section 218-106-301.

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

**CHART A**

**CALL-THROUGH TEST TO PBX**

*Apparatus:*

Master Test Control Circuit SD-25800-01

Trunk Test Circuit SD-25918-01

17E Toll Testboard

32A Test Set (if Stop-Go feature at PBX is to be verified)

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

STEP	ACTION	VERIFICATION
1	At MTF, restore all keys and switches.	
2	Momentarily operate RL key.	All lamps extinguished.
3	Operate LLPT, PBXH keys to select test conditions.	

## SECTION 218-113-501PT

## APPENDIX 1

STEP	ACTION	VERIFICATION
4	Select INC class of call with LT translator indication.	
5a	If line circuit group is allotted, operate NGT, NG— keys (for all but selected number group frame).	
6	Set TBT, TBU switches as required to select tens block within circuit group for access to circuit under test.	
7	Select line in tens block for line circuit under test by operating the S button (or switch) corresponding to the units digit of the trunk number. (To select a circuit made busy by the 17E toll testboard, operate NTLS key.)	
8b	If E and M supervision is provided, operate E-M key.	
9	Select marker.	
10	Select OGT class of test.	
11c	If automatic line lockout is provided — At relay rack frame, block nonoperated LLO relay.	
12	Select MISC class of test.	
13d	If it is desired to test into PBX equipment, select A through C digits as required for a line route relay which has access to the circuit under test. Select D through G digits as necessary to terminate to a test number at the PBX, or attendant operator. (Refer to CCSA routing guide or local records.)	
13e	If it is desired to test the PBX Stop-Go feature for off-network calls, select A through C digits (or A through F if 10 digits are required) as necessary to operate a line route relay which has access to the circuit under test, and will supply the arbitrary digit "9" for off-network access. Select D through G digits (or G through J if 10 digits are required) that will cause the call to terminate to a test number in the central office (CO) that provides off-network service to the PBX under test.	

STEP	ACTION	VERIFICATION
	<p><i>Note:</i> If it is desired to test each terminal at the PBX incoming selector it will be necessary to have a PBX repairman at that location make each terminal busy after it is tested, to force access to all terminals.</p>	
14	Operate TLK key.	
15	To select a particular sender operate OSS, SGA/SGB key and operate OS button (or switch) for sender desired.	
16	Momentarily operate ST key.	<p>MISC lamp lighted if SD-27669-01 not equipped with L01 relay is under test — LLS lamp lighted if SD-27669-01 equipped with L01 relay is under test — LLS lamp NOT lighted if SD-27942-01 not arranged for use with 17E testboard is under test — LLS lamp lighted if SD-37942-01 arranged for use with improved 17E testboard is under test — LLS lamp NOT lighted. After sufficient interval to allow sender to out-pulse, ringing heard followed by tone from test number at distant end.</p>
17	Momentarily operate RL key.	<p>All lamps extinguished. Test number released.</p>
18e	If it is desired to verify Stop-Go feature if provided at PBX — At equipment location for sender selected in Step 15, insert plug of 32A test set (remote testing cord) into RC jack located on the side of the relay rack frame.	
19	Operate white button of 32A test set momentarily.	<p>At sender being observed — Sender is seized by marker and begins outpulsing — after directing digit outpulsed, SG relay operates stopping outpulsing. After a short interval, SG1 operates and sender completes outpulsing.</p> <p><i>Note:</i> If sender outpulses completely without operation of SG and SG1 relays, Stop-Go feature is not properly wired at PBX.</p>
20	Operate red button of 32A test set momentarily.	MTF restored.