

STATION LINE CIRCUITS
OPERATION TESTS
606A PBX

1. GENERAL

- 1.01 This section describes a method of testing the operating features of station line circuits in the 606A PBX.
- 1.02 This section has been reissued to change the title for clarification purposes and convert it to letter size.
- 1.03 The tests covered are:

Manual Station Line Circuits

(A) **Line and Cutoff Relay:** This checks the operating features of the line and cutoff relays.

Note: Where the station line is wired to connector multiple, test the cutoff relay in accordance with Test (E) also.

Manual and Dial Station Line Circuits

(B) **Jack Cutouts—AC Continuity Method:** This provides a check of jacks for cutouts through the use of the AC continuity test circuit SD-66240-01.

(C) **Jack Cutouts—DC Click Method:** This provides a check of jacks for cutouts through the use of battery.

Dial Station Line Circuits

(D) **Restricted Service Feature:** This checks that busy tone is provided when the number of the restricted level is dialed.

(E) **Cutoff Relay:** This checks the operating features of the cutoff relay.

1.04 Before proceeding with any of the tests make a busy test to be sure that the station line is idle.

1.05 When making tests which require the use of a hand test set, keep the receiver slightly away from the ear so that clicks which may occur during testing will not act directly on the ear.

1.06 When tests are conducted on a routine basis, they should preferably be made during periods of light traffic to avoid interference with service.

2. APPARATUS

2.01 The apparatus required for each test is shown in the following table. The details for each item are given in the indicated paragraphs.

Apparatus	(2.02)	Number Required for Tests				
		A	B	C	D	E
Hand Set	(2.02)	1	—	1	1	1
Receiver	(2.03)	—	1	—	—	—
Telephone Set	(2.04)	1	1	1	1	1
Test Circuit	(2.05)	—	1	—	—	—
Test Cord	(2.06)	1	1	1	—	1
W2AY Cord	(2.07)	—	—	—	—	1
No. 309 Plug	(2.08)	—	—	—	—	1

2.02 No. 1011G Dial Hand Test Set, or equivalent—equipped with one 2W37A Cord Assembly consisting of one W2DB Cord, one No. 471A Jack and two No. 2 Test Clips per A. T. & T. Company Spec. No. 6928.

2.03 No. 716E Receiver or No. 528 Receiver equipped with one R2CU Cord and one No. 309 Plug (2W29A Cord).

2.04 Attendant Telephone Set.

2.05 AC Continuity Test Circuit SD-66240-01.

- 2.06 Test Cord Assembly shown in Fig. 1, or equivalent. (To be made up locally.)
- 2.07 W2AY Cord equipped with one No. 240A Plug and two No. 59 Cord Tips.
- 2.08 No. 309 Plug (with tip and ring short-circuited).

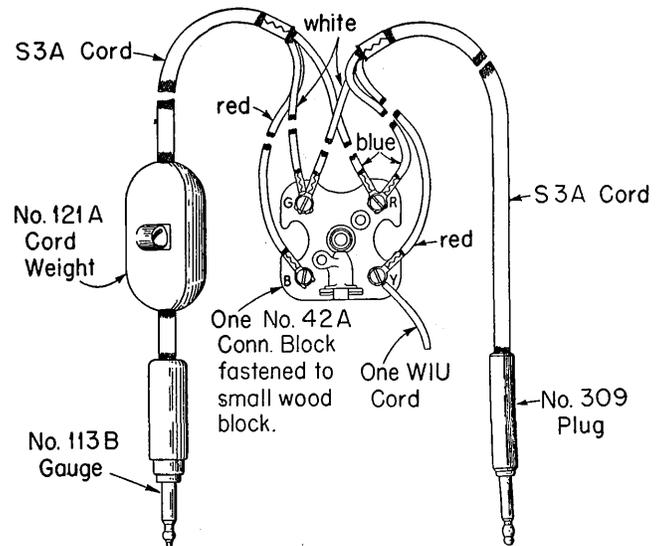


Fig. 1

3. METHOD

Step	Action	Verification
Manual Station Line Circuits		
(A) Line and Cutoff Relays		
1.	Operate dial hand test set switch to TALK and connect clips to T (white) and R (blue) conductors of test cord assembly.	
2.	Insert No. 309 plug (or No. 113B gauge if Test (C) is to be made in continuation) into station jack under test.	Click heard—line lamps light.
3.	Insert back plug of idle cord into multiple jack of line under test.	Line lamps extinguished.
4.	Disconnect equipment.	
Manual and Dial Station Line Circuits		
(B) Jack Cutouts—AC Continuity Method		
1.	Insert back plug of idle cord into multiple jack of line under test and associated front plug into CON REAR jack.	
2.	Insert receiver plug into REC jack.	
3.	Insert No. 309 plug of test cord assembly into CON FRONT jack.	

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<u>Step</u>	<u>Action</u>	<u>Verification</u>	<u>Step</u>	<u>Action</u>	<u>Verification</u>
4.	Attach No. 309 jack sleeve cord (WIU) clip to sleeve of idle plug.		2.	Operate dial hand test set switch to TALK and connect clips to T (white) and R (blue) conductors of test cord assembly.	
5.	Insert No. 113B gauge into station jack under test.	No tone or slight tone heard.	3.	Insert No. 309 plug into spare station line jack.	
6.	Rotate No. 113B gauge one complete revolution.	No clicks or changes in volume of tone heard.	4.	At connector shelf terminal strip connect W2AY cord clips to T (tip) and R (ring) terminals of spare station line circuit.	
7.	Disconnect equipment.		5.	Remove cover of idle connector having access to station line under test and block F relay operated.	
(C) Jack Cutouts—DC Click Method			6.	Connect No. 240A plug (W2AY cord) to connector test jack.	Connector A relay operates.
1.	Operate dial hand test set switch to TALK and connect clips to T (white) and R (blue) conductors of test cord assembly.		7.	Using dial hand test set, dial necessary two digits to extend connector to station line under test.	
2.	Insert back plug of idle cord into multiple jack of line under test.		8.	If station line under test is busy.	Busy tone heard in test set receiver.
3.	Insert No. 113B gauge into station jack under test.	Click heard.	9.	Touch tip of idle front cord to sleeve of station jack.	Click heard in attendant's receiver.
4.	Rotate No. 113B gauge one complete revolution.	No clicks heard.	10.	Insert No. 309 plug (tip and ring short-circuited) into station jack.	Click heard in test set receiver.
5.	Disconnect equipment.		11.	Disconnect equipment.	
Dial Station Line Circuits			4. REPORTS		
(D) Restricted Service Feature			4.01	Enter the required record of these tests on the proper form.	
1.	With dial hand test set switch at TALK at distributing frame connect clips to T (tip) and R (ring) terminals of station line under test.	Dial tone heard.			
2.	Dial number of restricted level.	Busy tone heard.			
3.	Disconnect equipment.				
(E) Cutoff Relay					
1.	Insert attendant's telephone set plug into telephone jacks.				