

STATION CONTROLLED DIAL CONFERENCE CONNECTING CIRCUIT SD-66857-01  
ARRANGED FOR USE WITH TRANSISTORIZED CONFERENCE CIRCUIT SD-96595-01  
WITH A MAXIMUM OF SIX SIMULTANEOUS CONNECTIONS

OPERATION TESTS

701A, 701B, 711A, OR 711B PBX

1. GENERAL

1.01 The tests covered are:

A. *Seizure:* This test checks the ability of the circuit to permit a PBX station to dial into the conference circuit a maximum of five other conferees, to release the called conferee when the called conferee does not answer, to release the last conferee when all other conferees have disconnected, to provide busy tone when the circuit is in use, and to provide busy tone if an attempt is made to connect a sixth conferee.

B. *Transmission:* This test checks that the transmission level between ports is maintained at the proper level by the transistorized conference circuit (SD-96595-01).

1.02 Test A requires action and verification at the attendant position, central office test desk, and six PBX stations. For convenience, the six PBX stations should be located in the same general area. The stations may be six 500-type telephone sets or equivalent connected to six spare or working station line terminals at the main distributing frame (MDF) or six customer PBX stations.

1.03 When using six customer PBX stations, consideration should be given to performing Test A during periods of light traffic and while the PBX equipment is in normal use.

1.04 Central office trunks not returning answer supervision must be connected by the attendant. Only one trunk that does not return answer supervision may be connected on any one conference circuit.

1.05 For purposes of identification, the station originating the conference is designated as station A, the originating or control station, with the stations added to the conference designated stations B, C, D, and E. The central office trunk is referred to as station F. Station G is not a conferee station; it is used for verification of conference busy.

1.06 If the PBX installation contains more than one conference connecting circuit, all other connecting circuits SD-66857-01 must be made busy while performing Test A. The SD-66857-01 may be removed from service by blocking operated L2 or RL relay.

1.07 *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 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.

2. APPARATUS

Test A

2.01 Six 500-type telephone sets or equivalent.

Test B

2.02 Two testing cords, 2W17C cord, consisting of one W2W cord 10 feet long, equipped with 310 plug, 360C tool, 360B tool, and two 624B tools.

2.03 71B milliwatt reference generator J94071B.

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**2.04** 23A transmission measuring set J94023A List 1.

**2.05** Blocking tools as required. Use tools and apply as covered in Section 069-020-801.

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**3. PREPARATION**

<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
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**Test A**

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| 1 | If spare station line terminals or working line terminals are used —<br>Connect 500-type telephone set or equivalent to each of the six station line terminals. These are referred to as stations A, B, C, D, and G. |  |
|---|--|--|

**Test B**

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|---|--|--|
| 2 | Calibrate 71B milliwatt reference generator and 23A transmission measuring set. Refer to Sections 103-326-100 and 103-223-100. |  |
| 3 | At unit under test —<br>Block operated L2 relay.   |  |

**4. METHOD**

<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
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**A. Seizure**

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|---|--|---|
| 2 | At station A —<br>Remove handset from switch hook. | Dial tone heard.  |
| 3 | Dial conference access code.                       | Second dial tone heard.   |
| 4 | Dial digits of station B.                          | Audible ringing tone heard.<br>At station B —<br>Bell rings.  |
| 5 | At station B —<br>Remove handset from switch hook. | Ringing tripped.<br>At station A —<br>Audible ringing tone removed.<br>Private consultation between stations A and B. |
| 6 | At station A —<br>Flash switch hook.               | Stations A and B connected to conference circuit.   |
| 7 | At station A —<br>Flash switch hook.               | Dial tone heard.<br>Station A removed from conference circuit.  |

STEP	ACTION	VERIFICATION
8	At station A — Dial digits of station C.	Audible ringing tone heard. At station C — Bell rings.
9	At station C — Remove handset from switch hook.	Ringing tripped. At station A — Audible ringing tone removed. Private consultation between stations A and C.
10	At station A — Flash switch hook.	Stations A, B, and C connected to conference circuit.
11	At station A — Flash switch hook.	Dial tone heard. Station A removed from conference circuit.
12	Repeat Steps 7 through 10 to connect stations D and E to conference circuit.	
13	At station A — Flash switch hook.	Dial tone heard. Station A removed from conference circuit.
14	At station A — Dial attendant level "0".	Audible ringing tone heard. At attendant position — TRK lamp flashed.
15	At attendant position — Momentarily depress TRK key.	TRK lamp lighted steadily. At station A — Audible ringing tone silenced.
16	Request attendant to extend call to central office test desk (station F).	At station F — Test desk answered. Station A explained conference test call.
17	At station A — Flash switch hook.	Central office test desk (station F) and stations A, B, C, D, and E connected to conference circuit.
18	At station A — Flash switch hook.	Station A removed from conference circuit. Busy tone heard.
19	At station A — Flash switch hook.	Busy tone removed. Station A connected to conference circuit.
20	At station G — Remove handset from switch hook.	Dial tone heard.
21	Dial conference access code.	Busy tone heard.
22	Replace handset on switch hook.	Busy tone removed.

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<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
23	At station B — Replace handset on switch hook.	Station B disconnected from conference circuit.
24	At station A — Flash switch hook.	Station A disconnected from conference circuit. Dial tone heard.
25	At station A — Dial digits of station B.	Audible ringing tone heard. At station B — Bell rings.
26	At station A — Flash switch hook.	Audible ringing silenced. At station B — Ringing tripped. Station A connected to conference circuit.
27	At station C — Replace handset on switch hook.	
28	At station A — Replace handset on switch hook.	Conference circuit released.
29a	If no further tests are to be made — Disconnect all telephone sets from spare or working line terminals.	

**B. Transmission**

4	See Fig. 1. At unit under test — Using 2W17C test cord, connect 900-ohm output of 71B milliwatt generator to terminals 34 (T) and 24 (R).	
5	Using 2W17C test cord, connect MEAS jack of 23A transmission measuring set to terminals 36 (T) and 26 (R).	
6	Block operated Z relay.	
7	Block operated CT1 relay.	At 23A transmission measuring set — Transmission loss reads 1.5 db $\pm$ 0.5 db.
8	At unit under test — Remove blocking tool from CT1 relay.	
9	Disconnect 23A transmission measuring set from terminals 36 and 26.	
10	Connect MEAS jack of 23A transmission measuring set to terminals 16 (T) and 55 (R).	

STEP	ACTION	VERIFICATION
11	Block operated CT2 relay.	At 23A transmission measuring set — Transmission loss reads 1.5 db $\pm$ 0.5 db.
12	At unit under test — Remove blocking tool from CT2 relay.	
13	Disconnect 23A transmission measuring set from terminals 16 and 55.	
14	Connect MEAS jack of 23A transmission measuring set to terminals 45 (T) and 35 (R).	
15	Block operated CT3 relay.	At 23A transmission measuring set — Transmission loss reads 1.5 db $\pm$ 0.5 db.
16	At unit under test — Remove blocking tool from CT3 relay.	
17	Disconnect 23A transmission measuring set from terminals 45 and 35.	
18	Connect 23A transmission measuring set to terminals 25 (T) and 15 (R).	
19	Block operated CT4 relay.	At 23A transmission measuring set — Transmission loss reads 1.5 db $\pm$ 0.5 db.
20	At unit under test — Remove blocking tool from CT4 relay.	
21	Disconnect 23A transmission measuring set from terminals 25 and 15.	
22	Connect 23A transmission measuring set to terminals 54 (T) and 44 (R).	
23	Block operated CT5 relay.	At 23A transmission measuring set — Transmission loss reads 1.5 db $\pm$ 0.5 db.
24	At unit under test — Remove blocking tool from CT5 relay.	
25	Disconnect 23A transmission measuring set from terminals 54 and 44.	
26	Remove blocking tool from Z relay.	
27	Disconnect 71B milliwatt generator from terminals 34 and 24.	

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<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
28	Connect 71B milliwatt generator to terminals 36 (T) and 26 (R).	
29	Block operated CT1 relay.	
30	Connect 23A transmission measuring set to terminals 34 (T) and 24 (R).	
31	Block operated Z relay.	At 23A transmission measuring set — Transmission loss reads 1.5 db $\pm$ 0.5 db.
32	At unit under test — Remove blocking tool from Z relay.	
33	Disconnect 23A transmission measuring set from terminals 34 to 24.	
34	Disconnect 71B milliwatt generator from terminals 36 and 26.	
35a	If no further tests are to be made — Remove blocking tools from CT1 and L2 relays.	

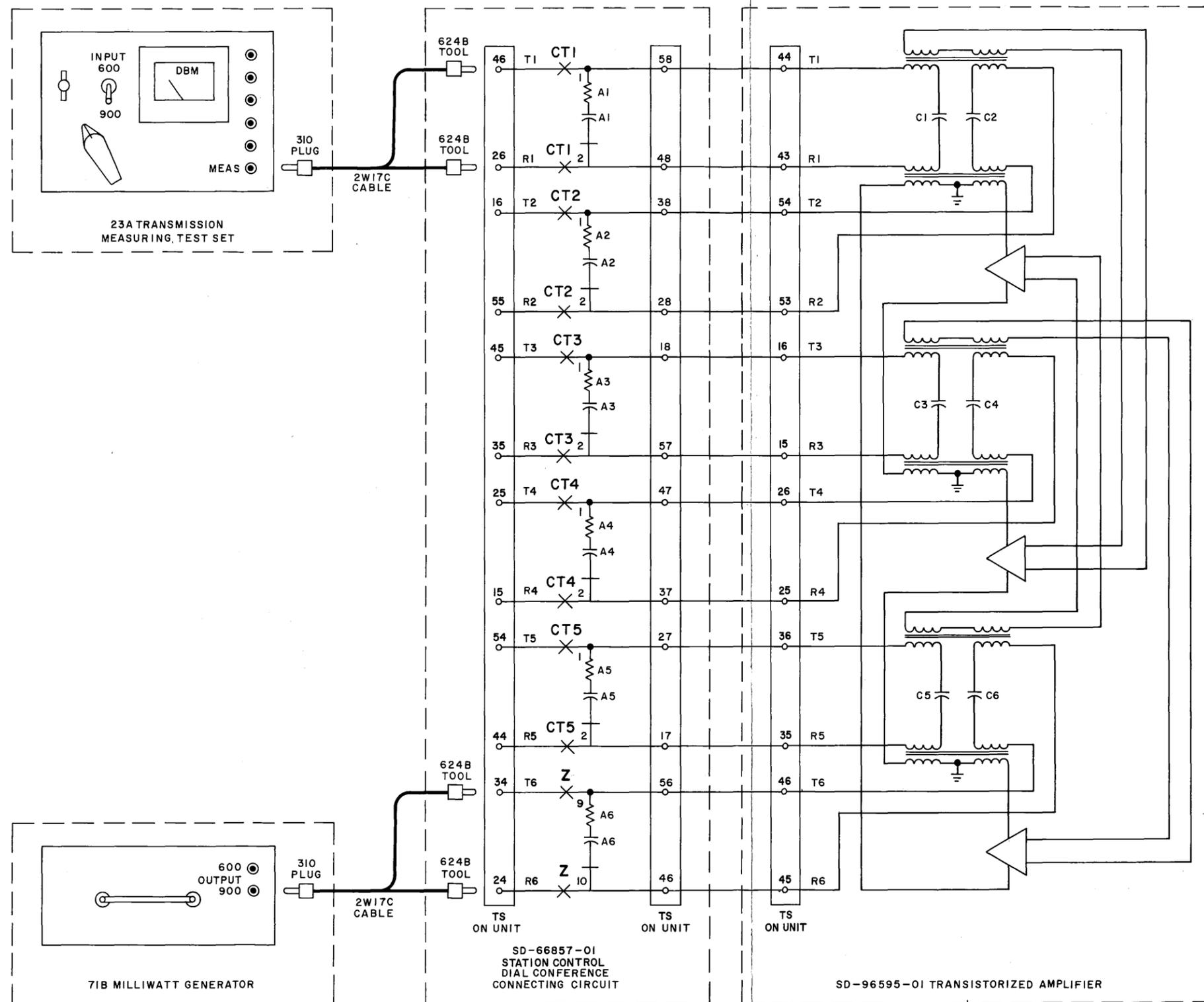


Fig. 1 — Connections of Reference Generator and Measuring Set To Trunk Unit Terminals