

ATTENDANT CONTROLLED DIAL CONFERENCE CONNECTING CIRCUIT SD-65897-01
FOR USE WITH TELEPHONE CONSOLE AND
TRANSISTORIZED CONFERENCE CIRCUIT SD-96595-01
ARRANGED FOR A MAXIMUM OF FIVE SIMULTANEOUS CONNECTIONS
OPERATION TESTS
701B PBX

1. GENERAL

1.01 The tests covered are:

A. Conference Operation: This test checks the following features: (1) Seizure by a PBX station dialing the conference code. (2) Seizure by a PBX station dialing attendant level "0" and the attendant dials the conference code. (3) Attendant connects other conferees. (4) Attendant releases called station. (5) Busy tone returned when conference is in progress. (6) Busy tone returned when an attempt is made to connect a sixth party (conferee). (7) Attendant recall. (8) Attendant releases conference. (9) Automatic disconnect of last 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 console, central office test desk, a tie trunk, and four PBX stations. For convenience the four PBX stations should be located in the same general area. They may be four 500-type telephone sets or equivalent connected to four spare or working station line terminals at the main distributing frame (MDF) or four customer PBX stations.

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

1.04 If the PBX installation contains more than one conference connecting circuit, all other SD-65897-01 circuits must be made busy while performing Test A. The SD-65897-01 circuit may be removed from service (made busy) by notifying the attendant and blocking the CTA relay operated.

1.05 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 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.

1.06 When a step requires a key to be depressed, the key is nonlocking and should be momentarily depressed, then released.

2. APPARATUS

Test A

2.01 Four 500-type telephone sets or equivalent.

Test B

2.02 71B milliwatt reference generator J94071B.

2.03 23A transmission measuring set J94023A List 1.

2.04 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.

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

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3. PREPARATION

STEP	ACTION	VERIFICATION
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Test A

1a	If spare station line terminals or working line terminals are used — Connect a 500-type telephone set or equivalent to each of the four station line terminals. These are referred to as stations A, B, C, and D.	
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Test B

2	Calibrate the 71B milliwatt reference generator and 23A transmission measuring set. Refer to Sections 103-326-100 and 103-223-100.	
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4. METHOD

STEP	ACTION	VERIFICATION
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A. Conference Operation

PBX Station Dials Conference Code

2	At station A — Remove handset from switch hook.	Dial tone heard.
3	Dial digits of conference access code.	Audible ringing tone heard. At telephone console — Audible alarm sounded. CONF lamp flashed at 120 ipm.
4	At telephone console — Momentarily depress CONF key.	Audible alarm silenced. CONF lamp lighted steadily. At station A — Audible ringing tone retired. Station A and attendant connected to conference circuit.

PBX Station Dials Attendant Level "0" and Attendant Dials Conference Code

5	At station A — Remove handset from switch hook.	Dial tone heard.
6	Dial "0" attendant trunk.	Audible ringing tone heard. At telephone console — TRK lamp flashed at 30 ipm.

STEP	ACTION	VERIFICATION
7	At telephone console — Momentarily depress TRK key.	TRK lamp lighted steadily. At station A — Audible ringing tone silenced.
8	At telephone console — Depress and hold START key until RDY lamp lights steadily, then release.	
9	Dial digits of conference access code.	
10	Momentarily depress END key.	RDY lamp extinguished. CONF lamp flashed at 120 ipm. Audible alarm sounded. Audible ringing tone heard.
11	Momentarily depress CONF key.	CONF lamp lighted steadily. Audible alarm retired. Audible ringing tone silenced. Station A and attendant connected to conference circuit.

Attendant Connects Other Conferees

12	At telephone console — Depress and hold START key until RDY lamp lights steadily, then release.	
13	Dial digits of station B.	
14	Momentarily depress END key.	RDY lamp extinguished. Audible ringing tone heard. At station B — Bell rings.
15	At station B — Remove handset from switch hook.	Ringling tripped. At telephone console — Audible ringing tone silenced. Attendant explained conference.
16	At telephone console — Momentarily depress CONF key.	Attendant, stations A and B connected to conference circuit.
17	At telephone console — Depress and hold START key until RDY lamp lights steadily, then release.	
18	Dial digits of station C.	
19	Momentarily depress END key.	RDY lamp extinguished. Audible ringing tone heard. At station C — Bell rings.

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STEP	ACTION	VERIFICATION
20	At station C — Remove handset from switch hook.	Ringling tripped. At telephone console — Audible ringing tone silenced. Attendant explained conference.
21	At telephone console — Momentarily depress CONF key.	Attendant, stations A, B, and C connected to conference circuit.
22	Depress and hold START key until RDY lamp lights steadily, then release.	
23	Dial digits of station D.	
24	Momentarily depress END key.	RDY lamp extinguished. Audible ringing tone heard. At station D — Bell rings.
25	Remove handset from switch hook.	Ringling tripped. At telephone console — Audible ringing tone silenced. Attendant explained conference.
26	Momentarily depress CONF key.	Attendant, stations A, B, C, and D connected to conference circuit.
27	Depress and hold START key until RDY lamp lights steadily, then release.	
28	Dial digits of central office test desk.	
29	Momentarily depress END key.	RDY lamp extinguished. Audible ringing tone heard. At central office test desk — Bell rings.
30	At central office test desk — Answer.	Ringling tripped. At telephone console — Audible ringing tone silenced. Explain conference test call to test desk.
31	At telephone console — Momentarily depress CONF key.	Stations A, B, C, D, central office test desk, and attendant connected to conference cir- cuit.
Attendant Releases Called Station		
32	At station D — Replace handset on switch hook.	After approximately 3 to 5 seconds — Station D removed from conference circuit.

STEP	ACTION	VERIFICATION
33	At telephone console — Depress and hold START key until RDY lamp lights steadily, then release.	
34	Dial digits of station D.	
35	Momentarily depress END key.	RDY lamp extinguished. Audible ringing tone heard. At station D — Bell rings.
36	At telephone console — Momentarily depress RLS DEST key.	Audible ringing tone silenced. At station D — Ringing tripped.
37	At telephone console — Depress and hold START key until RDY lamp lights steadily, then release.	
38	Dial digits of tie trunk and station.	
39	Momentarily depress END key.	RDY lamp extinguished. Audible ringing tone heard. At station — Bell rings.
40	At tie trunk station — Answer.	Ringing tripped — At telephone console — Audible ringing tone silenced. Explain conference to tie trunk station.
41	Momentarily depress CONF key.	Stations A, B, C, central office test desk, tie trunk station, and attendant connected to conference circuit.
Busy Tone Returned When Conference Is In Progress		
42	At station D — Remove handset from switch hook.	Dial tone heard.
43	Dial conference access code.	Busy tone heard.
44	Replace handset on switch hook.	Busy tone removed.
Busy Tone Returned When An Attempt Is Made To Connect A Sixth Party		
45	At telephone console — Depress and hold START key until RDY lamp lights steadily, then release.	

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STEP	ACTION	VERIFICATION
46	Dial digits of station D.	
47	Momentarily depress END key.	RDY lamp extinguished. Busy tone heard. CONF lamp flashed at 60 ipm.
48	Momentarily depress RLS DEST key.	Busy tone removed.
Attendant Recall		
49	At station A — Flash switch hook.	Audible ringing tone heard. At telephone console — Audible alarm sounded. CONF lamp flashed at 120 ipm.
50	Momentarily depress CONF key.	Audible alarm silenced. CONF lamp lighted steadily. Audible ringing tone silenced. Attendant connected to conference circuit.
51	At telephone console — Momentarily depress PA RLS key.	Attendant disconnected from conference circuit.
52	Repeat Steps 48 through 51 for stations B, C, central office test desk, and tie trunk station.	
Attendant Releases Conference		
53	At telephone console — Momentarily depress RLS DEST key.	All stations, central office test desk, tie trunk station, and attendant disconnected from conference circuit. At stations A, B, and C — Dial tone heard.
54	At stations A, B, and C — Replace handset on switch hook.	Dial tone removed. At telephone console — CONF lamp extinguished.
Automatic Disconnect Of Last Conferee		
55	Repeat Steps 2 through 4, 12 through 31, and 37 through 40 to connect stations, central office trunk, tie trunk, and attendant to conference circuit.	
56	At telephone console — Request central office trunk and tie trunk to disconnect.	
57	At stations A and B — Replace handset on switch hook.	At station C — Dial tone heard.

STEP	ACTION	VERIFICATION
58	At station C — Replace handset on switch hook.	Dial tone removed.
59	At telephone console — Momentarily depress PA RLS key.	CONF lamp extinguished.
60b	If no further tests are to be made — Remove make-busy from other SD-65897-01 circuits.	
61c	If spare station line terminals or working line terminals are used — Disconnect telephone sets from station line terminals.	

B. Transmission (See Fig. 1)

3	At unit under test — Using 2W17C cord, connect 900-ohm output jack of 71B milliwatt generator to terminals 55 (T) and 45 (R).	
4	Using 2W17C cord, connect MEAS jack of 23A transmission measuring set to terminals 58 (T) and 48 (R).	
5	Block operated CTA, AC relays.	
6	Block operated TF, CT1 relays.	At 23A transmission measuring set — Transmission loss reads 1.5 db \pm 0.5 db.
7	At unit under test — Remove blocking tools from TF, CT1 relays.	
8	Disconnect 23A transmission measuring set from terminals 58 and 48.	
9	Connect MEAS jack of 23A transmission measuring set to terminals 28 (T) and 18 (R).	
10	Block operated CT2 relay.	At 23A transmission measuring set — Transmission loss reads 1.5 db \pm 0.5 db.
11	At unit under test — Remove blocking tool from CT2 relay.	
12	Disconnect 23A transmission measuring set from terminals 28 and 18.	

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STEP	ACTION	VERIFICATION
13	Connect MEAS jack of 23A transmission measuring set to terminals 47 (T) and 37 (R).	
14	Block operated CT3 relay.	At 23A transmission measuring set — Transmission loss reads 1.5 db \pm 0.5 db.
15	At unit under test — Remove blocking tool from CT3 relay.	
16	Disconnect 23A transmission measuring set from terminals 47 and 37.	
17	Connect MEAS jack of 23A transmission measuring set to terminals 17 (T) and 56 (R).	
18	Block operated CT4 relay.	At 23A transmission measuring set — Transmission loss reads 1.5 db \pm 0.5 db.
19	At unit under test — Remove blocking tool from CT4 relay.	
20	Disconnect 23A transmission measuring set from terminals 17 and 56.	
21	Connect MEAS jack of 23A transmission measuring set to terminals 36 (T) and 26 (R).	
22	Block operated CT5 relay.	At 23A transmission measuring set — Transmission loss reads 1.5 db \pm 0.5 db.
23	At unit under test — Remove blocking tool from CT5 relay.	
24	Disconnect 23A transmission measuring set from terminals 36 and 26.	
25	Remove blocking tool from AC relay.	
26	Disconnect 71B milliwatt generator from terminals 55 and 45.	
27	Connect 900-ohm output jack of 71B milliwatt generator to terminals 58 (T) and 48 (R).	
28	Connect MEAS jack of 23A transmission measuring set to terminals 55 (T) and 45 (R).	

STEP	ACTION	VERIFICATION
29	Block operated TF and CT1 relays.	
30	Block operated AC relay.	At 23A transmission measuring set — Transmission loss reads 1.5 db \pm 0.5 db.
31	Remove blocking tools from AC, TF, and CT1 relays.	
32	Disconnect 23A transmission measuring set from terminals 55 and 45.	
33	Disconnect 71B milliwatt generator from terminals 58 and 48.	
34a	If no further tests are to be made — Remove blocking tool from CTA relay.	

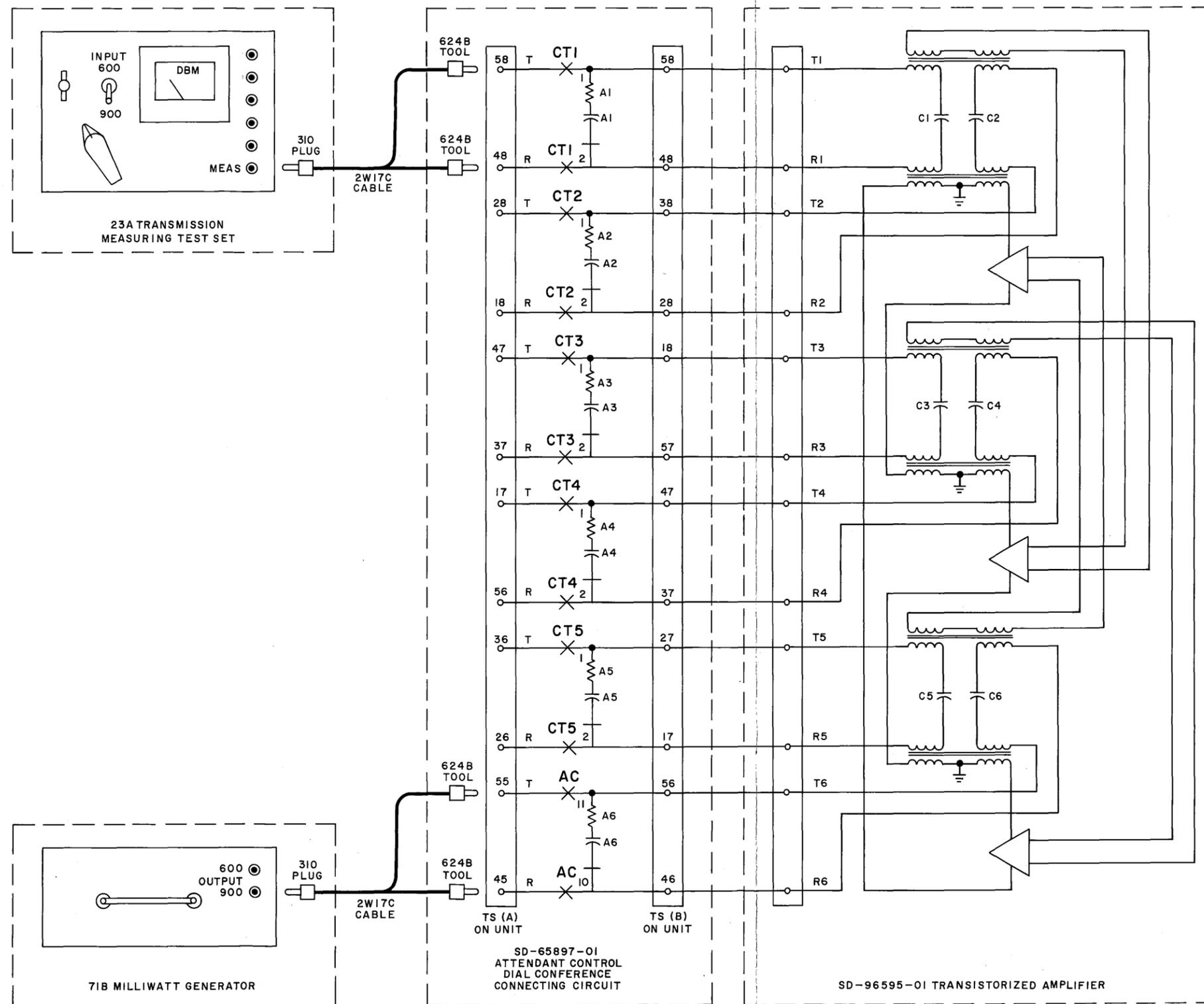


Fig. 1 — Connections of Reference Generator and Measuring Set To Trunk Unit Terminals