

2nd Floor

DC KEYSET CIRCUIT TESTS

USING TEST CIRCUIT SD-56344-01

NO. 1 TOLL SWITCHBOARD

1. GENERAL

- 1.01 This section describes a method of testing DC keyset circuits, in the No. 1 switchboard, using test circuit SD-56344-01.
- 1.02 This test checks the keyset circuit for premature keying, registrations, disconnection and ringing indications and for manual release of the keyset on partial keying condition.
- 1.03 Tests of MF key pulsing is covered in Section A225.346.

No. 92 Jack Type Switchboard

- (a) P3F Cord, 6 feet long equipped with a No. 309 Plug with a red shell and a No. 310 Plug with a red shell (3P12E).
- (b) P3F Cord, 6 feet long equipped with a No. 309 Plug with a grey shell and a No. 310 Plug with a grey shell (3P12F).
- (c) P3F Cord, 6 feet long equipped with a No. 309 Plug with a black shell and a No. 310 Plug with a black shell (3P12G).

2. APPARATUS

- 2.01 Test Circuit SD-56344-01.
- 2.02 Portable Control Set J64717A (SD-56344-01).
- 2.03 Patching cords as follows:

✓ No. 49 Jack Type Switchboard

- (a) P3F Cord, 6 feet long equipped with No. 310 Plugs with red shells (3P7A).
- (b) P3F Cord, 6 feet long equipped with No. 310 Plugs with grey shells (3P6C).
- (c) P3F Cord, 6 feet long equipped with No. 310 Plugs with black shells (3P6D).

use #2 Jack as CKT jacks

3. METHOD

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
1	Operate control key of portable control set to TST position.	
2	Using P3F cords connect jacks 1, 2 and 3 of portable control set to jacks 1, 2 and 3 of test circuit.	

Premature Keying

3	Insert plug of front toll cord into jack D of test circuit and operate listening key to talk position.	Cord supervisory lamp lights.
4	Momentarily depress the front KP key.	KF lamp lights.
5	Momentarily operate any numerical key of keyset.	S lamp flashes.
6	Momentarily depress KP key.	S lamp extinguished.

Registration

7	Operate control key of portable control set to LD position.	S lamp lights. <i>CORD SUPV. LAMP LIGHTS</i>
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<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
8	Depress the numerical keys of the keyset one at a time.	The sum of the number designation of the lamps lighted on the portable control set is equal to the number of the key depressed except 0 which is indicated as 10.

Following table indicates lamps lighted for each key depressed.

<u>Key Depressed</u>	<u>Lamp Lighted on Portable Control Set</u>
1	CT1
2	DT2
3	CT1, DT2
4	CR4
5	DR5
6	CT1, DR5
7	DT2, DR5
8	CT1, DT2, DR5
9	CR4, DR5
0	CT1, CR4, DR5

Disconnect and Ringing Indications

9	Depress ST key if provided, or depress keys 1 and 4 simultaneously.	CT1 and CR4 lamps lighted on portable control set.
10	Release the ST key or keys 1 and 4.	KF and S lamps are extinguished. Lamps CT1 and CR4 of control set are extinguished. CT1 lamp relights momentarily for keysets arranged for manual start of ringing or DR5 lamp lights momentarily for keysets arranged for automatic start of ringing.

Release of Keyset

* 11	Restore control key of portable control set to TST position and then reoperate to LD position.	S lamp lights.
* 12	Momentarily depress the front KP key.	KF lamp lights.
13	Remove front toll cord from D jack of test circuit.	Cord supervisory lamp extinguished.
14	Depress RLS key.	S and KF lamps extinguished.
15	Release RLS key.	
16	If key pulsing is provided on both cords repeat Steps 3 to 15, inclusive, using the rear toll cord and the rear KP key.	Verification is the same except the KR lamp lights instead of the KF lamp.
	<u>Note:</u> It is only necessary to operate one numerical key in Step 8.	
17	Remove all connections and restore keys to normal position.	

* Sequence Operation 11 + 12
Reversed