

## TRAFFIC REGISTER TESTS USING TEST SET SD-32150-01

### 1. GENERAL

1.01 This section describes methods for testing traffic registers in line finder offices.

1.02 Upon the receipt of a complaint of suspected faulty operation of one or more traffic registers, an operation test as described in sections covering traffic register circuit tests should be made of the suspected registers. If this test fails to reveal a trouble condition, a 100 operation test of the registers should be made as described herein. If the register tests fail to locate the trouble and the operation of the register depends upon the operation of a relay (or relays), it will be advisable to check the relay.

1.03 The 100 operation test as described in this section tests the speed characteristic of the register and whether three wheels will operate together, when the specified test "operate" current flow value is applied.

1.04 The test should be made preferably on other than peg count days and at a time when traffic is light. Any test of selector peg count registers should be made during a period of very light traffic since a call during the period of the test, on any selector associated with the group may give a false result, unless the wire to the register is opened.

1.05 Where required the register operations caused by the performance of this test should be entered on the proper form and forwarded in accordance with local instructions.

### 2. APPARATUS

2.01 Test Set J34725A (SD-32150-01).

2.02 No. 35F Test Set (or the equivalent).

2.03 KS-7993 Cord and Plug.

2.04 One P3E Cord equipped with two No. 310 Plugs (3P6E Cord).

2.05 One W1C Cord equipped with a No. 116 Plug and a No. 360B Tool (1W6B Cord) and a KS-6278 Tool.

2.06 One P2B Cord equipped with two No. 310 Plugs (2P4B Cord).

### 3. PREPARATION

3.01 If the line finder groups associated with the registers to be tested are connected to group busy indicating equipment, it will be necessary to remove the G (E1) lamp at the line load control cabinet.

3.02 Set all resistance slides of the No. 35-type test set to the extreme right.

3.03 Connect the TS jack of the message register test set to the TEST T and R jack of the No. 35-type test set, using the P2B cord.

3.04 Connect the 48V jack of the message register test set to a 48-volt battery supply, using the P3E cord.

3.05 Insert the No. 310 plug of the W1C cord into the T1 jack of the test set.

3.06 Connect the AC jack of the message register test set to a 115-volt AC supply using the KS-7993 cord and plug.

3.07 Operate the keys and switches of the No. 35-type test set as shown in the following table:

	<u>Keys</u>	<u>Position</u>	<u>Switches</u>	<u>Position</u>
Batt. & Grd.	C.O.	Operated	3 & 4	Operated to 0
	Rev.	Normal	G	Open
	*VM	Normal	L	Open

\* Applies to Nos. 35D and 35F test sets.

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3.08 If the battery supply for the register under test is controlled by a key at the traffic register rack, this key should be operated to furnish battery to the register.

### 4. METHOD

4.01 Connect the KS-6278 tool of the WLC cord to the winding terminal of the traffic register under test to which ground is normally supplied for the operation of the register.

4.02 Record the reading of the traffic register.

4.03 Operate the OPR key of the test set.

4.04 Depress key 1 of the No. 35-type test set and move the No. 1 resistance slides until the specified test "operate" current flow value of the register is observed on the milliammeter of the No. 35-type test set. Release key 1.

4.05 Depress key 2 of the No. 35-type test set and move the No. 2 resistance slides until the specified test "non-operate" current flow value is observed on the milliammeter of the No. 35-type test set. Release key 2.

4.06 Depress and release key 1 three times and observe that the register has scored three registrations.

4.07 Depress and release key 2 three times and observe that the register has not scored any registrations.

4.08 Restore the OPR key of the message register test set.

4.09 Note the register reading and close the locking lever of key 1 of the No. 35-type test set.

4.10 Momentarily operate the INT key of the message register test set and observe that the INT lamp lights.

4.11 After a short interval observe that the INT lamp is extinguished and then restore the locking lever of key 1.

4.12 Observe that the register reading is 100 more than the reading before the INT key was operated.

4.13 Record the register reading after the completion of the test.

4.14 Replace the G lamp at the line load control cabinet if removed.

### 5. REPORTS

5.01 The required readings of registers tested should be forwarded in accordance with local instructions.