

**TRAFFIC REGISTERS**  
**ASSOCIATED WITH LINE AND TRUNK FINDERS**  
**OPERATION TESTS**  
**STEP-BY-STEP SYSTEMS**

**1. GENERAL**

**1.01** This section describes a method of testing the all trunks busy and peg count register circuits associated with line finder and trunk finder equipment.

**1.02** This section is reissued to include in Test A a method for testing line finders equipped with busy key and to bring the section up to date. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

**1.03** The tests covered are:

**A. All Trunks Busy Register:** This test checks that the all trunks busy register operates each time all trunks are busy. . . . . **2**

**B. Peg Count Register:** This test checks that the peg count register operates each time a line or trunk finder releases. . . . . **2**

**1.04** Test B includes two procedures. One is for use where switch trouble alarm and traffic register circuits other than SD-30197-01 and ES-360007 are provided. The other is for use only where these two circuit arrangements are provided. In the latter case, the test should be made from each finder in the group.

**1.05** These tests require both action and verification at the finder frame and verification only at

the corresponding registers located at the traffic register cabinet.

**1.06** These tests, when conducted as a routine, should be made during a period of light traffic and on days other than peg count days.

**1.07** Local instructions should be followed for recording and reporting any register operations caused by performing these tests.

**1.08 Lettered Steps:** A letter a, b, c, etc, added to a step number in Part 3 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** Testing cord, W2W cord, 6 feet long, equipped with one 310 plug (tip and ring connection) and two 360 tools (2W17A cord) with one 365 tool on the white (tip) conductor.

**Test B**

**2.02** Test receiver, 716C receiver or equivalent, attached to a W2AB cord, 6 feet long, equipped with two 360A tools (2W21A cord), one KS-6278 connecting clip, and one 411A (test pick) tool (to check for the presence of battery or ground).

**PAGE**

## 3. METHOD

STEP	ACTION	VERIFICATION
<b>A. All Trunks Busy Register</b>		
1a	If test jacks are provided on finder frames— At finder frame— Connect 365 tool on W2W cord to ground.	
2a	Insert 310 plug into test jack of finder 22 of a 30-finder group, or finder 12 of a 20- or 16-finder group, just far enough for tip of plug to touch ring spring of jack.	Each idle finder steps, in turn, to last rotary step and releases. After last idle finder has released— Red S lamp lights. Minor alarm sounds.
	<i>Note:</i> In 8-finder groups, use the test jack of finder 7. In 10-, 6-, or 4-finder groups, use the test jack of finder 2.	
3a	Remove 310 plug from test jack.	At traffic register cabinet— ATB register advances one digit.
4b	If busy key is provided on each finder— At finder frame— Operate busy key of finder 22 of a 30-finder group or finder 12 of a 20- or 16-finder group.	Each idle finder steps, in turn, to last rotary step and releases. After last idle finder has released— Red S lamp lights. Minor alarm sounds.
	<i>Note:</i> In 8-finder groups, use the busy key of finder 7. In 10-, 6-, or 4-finder groups, use the busy key of finder 2.	
5b	Restore busy key.	At traffic register cabinet— ATB register advances one digit.
6	At finder frame— Momentarily depress AR key associated with group under test.	Red S lamp extinguishes. Minor alarm silences.
<b>B. Peg Count Register</b>		
1a	If finder groups have switch trouble alarm circuits and traffic register circuits other than SD-30197-01 and ES-360007— At finder frame— Manually raise shaft of any idle finder far enough to allow off-normal springs to close and hold momentarily.	Release magnet operates.
2a	Restore shaft to normal.	At traffic register cabinet— Register advances one digit.

STEP	ACTION	VERIFICATION
3b	<p>If finders have switch trouble alarm circuits and traffic register circuits SD-30197-01 and ES-360007—            At finder frame—            Make busy first and second choice finders as required to test second and third choice finders in each subgroup.</p>	<p>Note that one of finders in first subgroup is idle.</p>
4b	<p>Connect KS-6278 tool on test receiver to battery.</p>	
5b	<p>Momentarily touch test pick (411A tool) to sleeve (S) terminal of line or trunk circuit 11 or 111 on line terminal strip.</p>	<p>If no click is heard, proceed immediately to Step 6b.            If click is heard, line is in use and test should be deferred until line or trunk is idle.</p>
6b	<p>Immediately touch test pick to tip (T) terminal of line or trunk.</p>	<p>One of finders in subgroup steps to first level and rotates to first terminal.</p>
7b	<p>After finder cuts through on first terminal—            Remove test pick.</p>	<p>Finder releases.            At traffic register cabinet—            Register advances one digit.</p>
8c	<p>If other finders in this subgroup or other subgroups are to be tested—            Repeat Steps 3b through 7b.</p> <p><b>Note:</b> For finders in other subgroups, connect test receiver to line or trunk circuits 21 or 121 for subgroup 2, 31 or 131 for subgroup 3, etc, to 01 or 101 for subgroup 10.</p>	
9d	<p>If no further tests are to be made—            Disconnect test receiver.</p>	