

## SELECTORS, CONNECTORS, AND SELECTOR-CONNECTORS

### CUT-IN AND RELEASE TESTS

#### 701A, 701B, 711A, AND 711B PBX

#### 1. GENERAL

**1.01** This section describes a method of making a test of the cut-in and release features of selectors, connectors, and selector-connectors and a check for dial tone on first selectors and selector-connectors in the 701A, 701B, 711A, and 711B PBX.

**1.02** This section has been reissued to convert it to letter size and for the following reasons:

- (a) To revise the title of the section to cover the scope of the tests and to include the 701B and 711B PBX.
- (b) To revise Tests A and B to include tests for selector-connectors formerly covered by Test C, and to delete Test C.
- (c) To bring the list of apparatus up to date.
- (d) To provide a method in Test A for testing digit absorbing selectors.

Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

**1.03** The tests covered are:

- A. *Selectors and Selector Levels of Selector-Connectors*
- B. *Connectors and Connector Levels of Selector-Connectors*

**1.04** The major operating features of this routine are also covered by Sections 542-010-521, 542-010-660 and 542-010-655. When

these sections are scheduled, Section 542-010-657 may be omitted.

**1.05** A different level should be used each time, so that all switches will eventually be tested for cut-in on all levels, except that incoming selectors and incoming connectors should not be tested on the zero level. The intercepting selector levels on which trunks to a distant manually operated PBX appear should also be excluded when Sections 542-010-666 and 542-010-668 are scheduled.

**1.06** *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

##### Tests A and B

**2.01** No. 1011G dial hand test set equipped with a No. 2W39A cord assembly consisting of a W2CL cord, No. 471A jack and No. 240A plug.

##### Test A

**2.02** Testing cord, a black cord, 1 foot 8 inches long, equipped with one clip per AT6928 and one KS-6780 connecting clip with one No. 108 cord tip (No. W1U cord) (used to ground motor start lead of ringing machine when manual ringing machine start key is not provided).

## 3. METHOD

STEP	ACTION	VERIFICATION
<b>A. Selectors and Selector Levels of Selector-Connectors</b>		
1	Operate manual start key of ringing machine or ground motor start lead.	Ringing machine operates continuously.
2	With dial hand test set switch in MON position — Connect dial hand test set to switch test jack and monitor.	Switch in normal position. No indication of seizure by another call.
3	Operate dial hand test set switch to TALK.	PBX dial tone heard.
4a	If testing selector arranged to absorb initial digit — Dial digit to be absorbed.	PBX dial tone removed. Selector steps to level dialed and releases.
5b	If testing selector arranged to absorb specific digit repeatedly — Dial absorbed digit at least twice.	PBX dial tone removed. Selector steps to level dialed and releases properly after each series of pulses.
6	Dial level under test and immediately dial digit one.	Switch steps vertically to level dialed and rotates to first idle terminal. No vertical kick caused by dialing digit one.
7	Operate dial hand test set switch to MON.	Switch releases.
8	Disconnect dial hand test set from switch test jack.	
9	Restore manual start key of ringing machine to normal or remove ground from motor start lead.	
<b>B. Connectors and Connector Levels of Selector-Connectors</b>		
1	With dial hand test set in MON position — Connect dial hand test set to switch test jack and monitor.	Switch in normal position. No indication of seizure by another call.
2	Operate dial hand test set switch to TALK.	
3	Dial level under test, immediately dial digit one, and operate switch of dial hand test set to MON as soon as digit one has been dialed.	Switch steps to first terminal of level dialed and releases. No vertical kick caused by dialing digit one.
4	Disconnect dial hand test set from switch test jack.	