

SELECTORS AND CONNECTORS
CUT-IN AND RELEASE TESTS
702A PBX

1. GENERAL

1.01 This section describes a method of making a test of the cut-in and release features of selectors and connectors and a check for dial tone on first selectors in the No. 702-A P B X. The tests are as follows:

(A) Regular Selectors.

(B) Connectors and Two Digit Rotary Hunting Selectors.

1.02 The major operating features of this practice are also covered by Sections 543-020-655 and 543-020-657. When these sections are scheduled, Section 543-020-656 may be omitted.

1.03 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 should not be tested on the zero level. Intercepting selector levels, trunk levels and levels on which tie lines to distant manually operated P B X's appear should also be excluded when Sections 543-020-666 and 543-020-668 are scheduled.

2. APPARATUS

- 2.01 Dial Hand Test Set equipped with a No. 2-CB Dial and a No. 240-F Plug. (Lamp omitted.)
- 2.02 No. 377-A Dialing Tool.

3. METHOD

(A) Regular Selectors

3.01 **Dial Tone Test:** Note that the selector under test is idle. Connect the dial hand test set to the selector test

jack and operate the C button. Note that dial tone is heard in the receiver.

3.02 **Cut-in Test:** Operate the C button and dial the level to be used. Immediately thereafter dial the digit one as rapidly as possible. Observe that the selector steps to the level dialed and rotates to the first idle trunk. Should the dialing of the digit one cause an extra vertical step or a vertical kick of the shaft, it usually indicates that the C relay is too slow in releasing. Allow the switch to remain operated for at least one second.

3.03 **Release Test:** Release the C button and observe that the selector releases properly.

(B) Connectors and Two Digit Rotary Hunting Selectors

3.04 Connect the dial hand test set to the test jack of an idle switch and operate the C button.

3.05 Dial the number of the level to be used and immediately dial the digit one as rapidly as possible. Release the C button as soon as digit one has been dialed, to avoid ringing the extension or signaling the attendant. Observe that the switch steps to the first terminal on the level dialed and immediately releases. Should the dialing of the digit one cause an extra vertical step or a vertical kick of the shaft, it usually indicates that the C relay is too slow in releasing.

4. REPORTS

4.01 The required record of this routine should be entered on the proper form.