

SELECTORS AND SELECTOR-CONNECTORS

ROTARY TESTS

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

1. GENERAL

1.01 This section describes the method of testing the rotary or trunk hunting action of selectors and selector-connectors in 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 test and to include the 701B and 711B PBX.
- (b) To add to the list of apparatus and bring it up to date.
- (c) To change former Test B to Test C.
- (d) To add a new Test B which provides a method of testing selectors and selector-connectors using the No. 40C test set.
- (e) To provide a method in Tests A and B 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. Selector and Selector-Connector Using 1011G Dial Hand Test Set: This test checks the rotary action of selectors and selector-connectors using the 1011G dial hand test set. This test is intended to be used where the No. 40C test set is not available.

B. Selector and Selector-Connector Using 40C Test Set: This test checks the rotary action of selectors and selector-connectors. This test

also checks the ability of the selector to pass busy terminals and to stop on an idle terminal.

C. Two-Digit Rotary Hunting Selector: This test checks the rotary action and trunk hunting action of two-digit rotary hunting selectors.

1.04 These tests should be made on one level from each selector or selector-connector. A different level should be used each time, so that all switches will eventually be tested on all levels, except that incoming selectors should not be tested on the zero level.

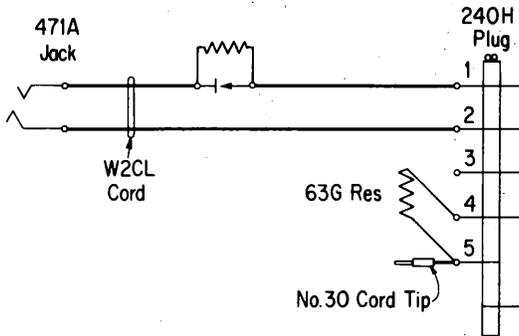
1.05 Lettered Steps: A letter a, b, c, etc, added to a step number in Part 3 of this section indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or a series of lettered steps should be made is given in the ACTION column, and all 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 C

2.01 No. 1011G dial hand test set equipped with a No. 2W40A cord assembly consisting of W2CL cord, No. 471A jack, and No. 240H plug. Modify No. 240H plug as shown in Fig. 1.

2.02 No. 63G (250-ohm) resistor or equivalent (used to modify No. 240H plug).



Note: Mount the Resistor on the under side of the Fibre Handle of the No. 240H Plug.

Fig. 1 — Modification of No. 240H Plug

Test B

2.03 No. 40C test set.

2.04 Testing cord, a black cord, 8 feet 6 inches long, equipped with two No. 360A tools (No. W1AF cord). Equip one No. 360A tool with one KS-6278 connecting clip and one No. 108 cord tip (used to connect test battery to the No. 40C test set).

3. METHOD

STEP

ACTION

VERIFICATION

A. Selector and Selector-Connector Using 1011G Dial Hand Test Set

- | | | |
|----|--|---|
| 1 | With dial hand test set switch in MON position —
Connect dial hand test set to test jack of switch and monitor. | Switch in normal position.
No indication of seizure by another call. |
| 2 | Operate dial hand test set switch to TALK. | Switch seized. |
| 3a | If testing selector arranged to absorb initial digit —
Dial initial digit. | Switch steps to level dialed and releases. |
| 4b | If testing selector arranged to absorb a specific digit repeatedly —
Dial absorbed digit at least twice. | Switch steps to level dialed and releases properly after each series of pulses. |
| 5 | Position adjustable W spring on No. 240H plug of dial hand test set to make firm contact with sleeve wiper of test jack. | |
| 6 | Dial number of level used for test. | Switch steps to level dialed and rotates with positive and smooth action at uniform speed to eleventh rotary step.
No clicking heard in receiver during rotary action. |
| 7 | When switch reaches eleventh rotary step, operate dial hand test set switch to MON. | Switch releases. |
| 8 | Disconnect dial hand test set from test jack of switch. | |

STEP	ACTION	VERIFICATION
B. Selector and Selector-Connector Using 40C Test Set		
1	Connect test battery to the No. 40C test set.	
2	Connect test set to test jack of switch and monitor.	Switch in normal position. No indication of seizure by another call.
3	Operate No. 1 key of test set.	Switch seized.
4a	If testing selector arranged to absorb initial digit — Dial initial digit.	Switch steps to dialed level and releases.
5b	If testing selector arranged to absorb a specific digit repeatedly — Dial absorbed digit at least twice.	Switch steps to level dialed and releases properly after each series of pulses.
6	Position adjustable W spring on plug of test set to make firm contact with sleeve wiper of test jack.	
7	Dial level under test.	Switch steps to level dialed and rotates with positive and smooth action at uniform speed to eleventh rotary step. No clicking heard in receiver during rotary action.
8	Release No. 1 key of test set when switch reaches eleventh rotary step.	Switch releases.
9	Operate No. 1 key of test set.	
10a	If testing selector arranged to absorb initial digit — Position adjustable W spring on No. 240H plug of test set so that it does not make contact with sleeve wiper of test jack.	
11a	Dial initial digit.	Switch steps to level dialed and releases.
12b	If testing selector arranged to absorb a specific digit repeatedly — Position adjustable W spring on No. 240H plug of test set so that it does not make contact with sleeve wiper of test jack. Dial absorbed digit at least twice.	Switch steps to level dialed and releases properly after each series of pulses.
13a	If testing selector arranged to absorb initial digit — Position adjustable W spring on No. 240H plug of test set to make firm contact with sleeve wiper of test jack.	

SECTION 542-010-660

STEP	ACTION	VERIFICATION
14b	If testing selector arranged to absorb a specific digit repeatedly — Position adjustable W spring on No. 240H plug of test set to make firm contact with sleeve wiper of test jack.	
15	Dial level under test. While switch is rotary hunting and before the 8th rotary step is reached, operate the No. 2 key of test set.	Switch steps to level dialed and rotates. Switch stops on idle terminal after No. 2 key is operated.
16	Release No. 2 key of test set.	
17	Dial a digit.	Switch has no vertical kick. No relay within switch chatters.
18	Release No. 1 key on test set.	Switch releases.
19	Disconnect test set from test jack.	
20	Disconnect test battery from the test set.	

C. Two-Digit Rotary Hunting Selectors

1	With dial hand test set switch in MON position — Connect dial hand test set to test jack of switch and monitor.	Switch in normal position. No indication of seizure by another call.
2	Operate dial hand test set switch to TALK.	Switch seized.
3	Position adjustable W spring on No. 240H plug of dial hand test set to make firm contact with sleeve wiper of test jack.	
4	Dial digit of level selected followed by digit of first trunk of group used for test.	Switch steps to level dialed, rotates with positive and smooth action to last terminal in group. Busy tone heard.
5	Operate dial hand test set switch to MON.	Switch releases.
6	Disconnect dial hand test set from test jack of switch.	