

SELECTORS
ROTARY TESTS
USING DIAL HAND TEST SET
702A PBX

1. GENERAL

1.01 This section describes a method of testing the rotary or trunk hunting action of selectors of the No. 702-A P B X by means of a Dial Hand Test Set. The tests are as follows:

(A) Regular Selectors.

(B) Two Digit Rotary Hunting Selectors.

1.02 Any selector on which a failure is encountered when making this routine should be made busy until the trouble is cleared.

2. APPARATUS

2.01 No. 18-AM (250 ohm) Resistance (or equivalent) equipped with two No. W1A Cords (length as required). This apparatus should be made up locally.

2.02 No. 760 Cord.

2.03 Dial Hand Test Set equipped with a No. 2-CB Dial and a No. 240-F Plug. (Lamp omitted.)

3. METHOD

(A) Regular Selectors.

3.01 This routine should preferably be made at times of light traffic since sleeve grounds on busy trunks would cancel the test margins while passing such trunks.

3.02 A different level should be used each time the test is performed so that all switches will eventually be tested on all levels.

3.03 Connect one cord of the resistance unit to ground.

3.04 Insert the plug of the dial hand test set into the test jack of the selector to be tested and operate the C button.

3.05 With the C button of the dial hand test set operated, connect the other cord of the resistance unit to the sleeve wiper terminal of the selector under test and dial the number of the level to be tested. Place the receiver to the ear immediately after dialing. Observe that the selector steps to the level dialed and rotates with a positive and smooth action and at a uniform rate of speed to the eleventh rotary position.

A clicking noise in the receiver during the rotary movement of the selector usually indicates faulty cam spring adjustment.

Note: The use of the resistance usually results in slower rotary action than is normally experienced in service but if the action is positive, smooth and uniform, slow speed is not an indication of trouble.

3.06 As soon as the selector reaches the eleventh rotary step remove the ground from the sleeve wiper terminal and observe that the all paths busy tone is heard in the receiver. Release the C button and note that the selector releases properly.

(B) Two Digit Rotary Hunting Selectors.

3.07 This routine should preferably be made at times of light traffic and only on working trunk or tie line groups on selector levels.

3.08 A different level should be used each time the test is performed so that all switches will eventually be tested on all working levels.

3.09 Insert the plug of the dial hand test set into the test jack of the selector to be tested and operate the C button.

3.10 Connect one clip of the No. 760 cord to ground and the other clip to the sleeve wiper terminal of the switch under test.

3.11 Dial the number of the level selected followed by the number of the first trunk of the particular group to be tested. Note that the switch rotates with a positive and smooth action and selects the last trunk of the group. Observe that busy tone is heard in the receiver.

Note: Failure of the switch to step to the last terminal of the group may indicate an open strap between the H and S terminals on the switch terminal strip instead of trouble in the switch.

3.12 Release the C button and observe that the switch releases properly.

3.13 Disconnect the cord from the sleeve wiper terminal.

4. REPORTS

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