

## EIGHT-PARTY REVERTING CALL SELECTORS OPERATION TESTS USING DIAL HAND TEST SET AND TEST CIRCUIT SD-31478-01 OR SD-31479-01 STEP-BY-STEP SYSTEMS

### 1. GENERAL

1.01 This section describes a method of testing the operating features of eight-party reverting call selectors. It also indicates the key operation required in order to apply the adjust values of resistance to the trip relays in offices equipped with test circuits arranged for making a-c. adjustments. The tests are based upon the use of test circuit SD-31479-01 in a-c.-d-c. offices and test circuit SD-31478-01 and previous test circuits in superimposed offices.

1.02 At least one reverting call switch should be tested with the emergency reverting call interrupter transfer key operated in order to check both the regular and the emergency interrupter circuits.

1.03 Any switch on which a failure is encountered should be made busy until the trouble is cleared.

### 2. APPARATUS

2.01 One Dial Hand Test Set D-81763 or equivalent.

2.02 One P3C Cord equipped with a No. 110 and a No. 240-A Plug.

2.03 No. 375-A Make-Busy Tools as required.

### 3. METHOD

#### Testing Method

3.01 Connect the dial hand test set to the DL jack of the reverting call selector test circuit.

3.02 With all keys of the test circuit normal, insert the No. 110 plug of the P3C cord into the TST jack. Note that the switch to be tested is normal and insert the No. 240-A plug into the test jack of the switch. If the selector is busy the SL lamp will light, in which case the No. 240-A plug may either be removed in order to proceed with other tests or left in the test jack and the test delayed until the SL lamp is extinguished.

3.03 Operate the 8P TST key (if provided).

3.04 Operate the C button of the hand test set. The SL lamp should light.

3.05 Dial code 14.

3.06 Release the C button of the hand test set. The T+ bell should ring the one-ring code following which the R-bell should ring the one-ring code.

3.07 Operate the PRE TRIP key at the start of a ringing interval and restore it before the end of the ringing interval. The bells should ring again.

3.08 Operate the TRIP key at the start of a ringing interval and restore it before the expiration of this interval. The switch should not release while the TRIP key is held operated, but it should release promptly and the SL lamp should be extinguished when the key is restored.

3.09 Operate the C button of the hand test set. The SL lamp should light.

3.10 Dial code 45.

3.11 Release the C button of the hand test set. The R-bell should ring the two-ring code following which the T+ bell should ring the one-ring code. Note that the first ring is a full code ring in order to check the pick-up feature.

3.12 Momentarily operate the TRIP key during a T+ ringing interval. The switch should release and the SL lamp should be extinguished.

3.13 Operate the C button of the hand test set and note that the SL lamp lights.

3.14 Dial code 11.

3.15 Release the C button of the hand test set. Note that the R-bell rings the one-ring code.

3.16 Momentarily operate the TRIP key at the start of a silent interval. The switch should release and the SL lamp should be extinguished.

3.17 Operate the C button of the hand test set and note that the SL lamp lights.

3.18 Dial code 88.

3.19 Release the C button of the hand test set and note that the T+ bell rings the two-ring code.

3.20 Momentarily operate the TRIP key at the start of a silent interval. The switch should release and the SL lamp should be extinguished.

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- 3.21 Operate the C button of the hand test set and note that the SL lamp lights.
- 3.22 Dial code 67.
- 3.23 Release the C button of the hand test set. The R+ bell should ring the two-ring code following which the T-bell should ring the two-ring code.
- 3.24 Momentarily operate the TRIP key. The switch should release and the SL lamp should be extinguished.
- 3.25 Operate the C button of the hand test set and note that the SL lamp lights. Dial a non-working code, such as 99. Release the C button. The switch should release and the SL lamp should be extinguished.

- 3.26 Remove the No. 240-A plug from the test jack of the selector unless other tests are to be conducted on this switch.

Adjusting Method

- 3.27 To apply the trip and pre-trip adjust values of resistance to the trip relays in order to check the mechanical adjustment of these relays, proceed as outlined in 3.01 to 3.08, except in this case operating the READJ or SP ADJ key at the start of the test.

4. REPORTS

- 4.01 The required record of these tests should be entered on the proper form.