

TRUNKS FROM SELECTOR LEVELS TO INFORMATION DESKS
OPERATION TESTS
USING TRUNK TEST SET ES-30096-01
STEP-BY-STEP SYSTEMS

1. GENERAL:

- 1.1 This section describes a method of testing trunks from selector levels to information desks.
- 1.2 This routine should be made from one selector having direct access to the trunks to be tested. A different selector should be used each time this routine is performed, so that all trunks will eventually be tested from all selectors.
- 1.3 This test should be made only at periods of light traffic and should be made to a different position each time this routine is performed, in order that each trunk will eventually be tested to all positions including the night position.
- 1.4 Any trunk on which a failure is encountered when making this routine, should be made busy until the trouble is cleared.

2. APPARATUS:

- 2.1 Selector Trunk Test Set—Wagon Type (ES-30096-01).
- 2.2 One No. 813 Cord equipped with one No. 110 Plug and one No. 240-A Plug.
- 2.3 One No. W3E Cord equipped with one No. 110 Plug, two No. 419A Tools and one No. 90 Cord Tip.
- 2.4 One No. 728 Cord equipped with two No. 110 Plugs (used with battery supply jack).
- 2.5 One No. 875 Cord equipped with one No. 110 Plug, two No. 59 and two No. 90 Cord Tips (used when a battery supply jack is not available).
- 2.6 One No. 338 Tool (jack spring insulator).
- 2.7 One Operator's Telephone Set.
- 2.8 No. 375-A Make-busy Tools, as required.

3. TEST SET PREPARATION:

- 3.1 Locate the test set near the selector from which the test is to be made and temporarily make the selector busy, by means of a No. 375-A make-busy tool. By

means of the No. 728 cord, connect jack B of the test set to the BAT jack on the selector frame.

Note: If a BAT jack is not available on the selector frame, insert the plug of the No. 875 cord into jack B of the test set. Connect the white conductor of this cord to a spare fuse or the equipment end of a battery fuse in service and the red conductor to ground. In no case should the capacity of the fuse selected, exceed 5 amperes.

- 3.2 Connect the No. 110 plug of the W3E cord to jack C of the test set. Connect the white conductor (No. 59 cord tip) of this cord to rotary interrupter spring No. 2, the blue conductor (No. 419A tool) to spring No. 4 of the selector E relay and the red conductor (No. 419A tool) to No. 2 cam spring.
- 3.3 By means of the No. 338 tool, insulate the rotary interrupter springs.
- 3.4 Connect the operator's telephone set to the test set jacks TEL.

4. METHOD:

- 4.1 Operate the TALK key. Remove the No. 375-A make-busy tool from the selector and connect jack TST of the test set to the test jacks of the selector, by means of the No. 813 cord. Step the selector to the level upon which the trunks appear, by means of the dial. Operate the TALK-TRK key.
- 4.2 Operate the MON key in order to step the selector to the first contact on the level and to connect the receiver for monitoring. The BY lamp should light as the selector steps, and be extinguished when an idle trunk is reached.

Note: Where the test set is not equipped with a BY lamp, all reference to it in this section should be disregarded.

- 4.3 In case the first contact is not equipped, as indicated by the bank designation card, advance the selector to the first trunk by operating and releasing the PLS key, as

required. Observe that the BY lamp remains lighted on each unequipped contact, indicating that the sleeve contacts are properly grounded.

- 4.4 When the first trunk is reached, observe that it is not busy. A busy trunk is indicated by conversation or audible ringing signal in the receiver and by a lighted BY lamp.
- 4.5 Operate the TALK key. Observe that the BY lamp is lighted. Note that the audible ringing signal is heard in the receiver within a period of approximately four seconds and is removed when the operator answers.

Note: When the operator answers in less than four seconds, the audible ringing signal may not be heard.

(a) Trunks to Central Information Desk No. 1:

- 4.6 Check with the operator, that the trunk lamp is extinguished when the trunk key is in the talk and hold positions, and is lighted dimly when the key is restored.
- 4.7 Request the operator to remain on the trunk for a few moments.
- 4.8 Operate the MON key for about one second and observe that the BY lamp is momentarily extinguished, indicating the proper operation of the release and make-busy feature of the trunk when the operator disconnects last. Operate the TALK key and request the operator to disconnect.
- 4.9 Operate the MON key and then advance the selector to the next trunk by operating and releasing the PLS key, as required.
- 4.10 Observe that the SU lamp is not lighted during the test of any trunk. A lighted SU lamp indicates a reversed trunk.
- 4.11 When the last trunk has been tested, restore the TALK-TRK key. The BY lamp should be extinguished. Release the selector by momentarily restoring the TALK key. Remove the No. 338 tool and attachments. Dial the selector to a

working level and observe that it rotates properly to the first idle trunk. Remove the No. 240-A plug from the test jack and observe that the selector releases properly.

(b) Trunks to Information Desk No. 17 MC:

- 4.12 Check with the operator, that the trunk lamp does not relight when she removes the plug from the trunk jack.
- 4.13 Request the operator to leave the plug in the trunk jack for a few moments and observe the supervisory lamp.
- 4.14 Operate the MON key for about one second and observe that the BY lamp is momentarily extinguished, indicating the proper operation of the release and make-busy feature of the trunk when the operator disconnects last. The supervisory lamp in the operator's cord circuit should be lighted while the MON key is operated.
- 4.15 Operate the TALK key and check with the operator that the supervisory lamp functioned properly.
- 4.16 Operate the MON key and then advance the selector to the next trunk by operating and releasing the PLS key, as required.
- 4.17 Observe that the SU lamp is not lighted during the test of any trunk. A lighted SU lamp indicates a reversed trunk.
- 4.18 When the last trunk has been tested, restore the TALK-TRK key. The BY lamp should be extinguished. Release the selector by momentarily restoring the TALK key. Remove the No. 338 tool and attachments. Dial the selector to a working level and observe that it rotates properly to the first idle trunk. Remove the No. 240-A plug from the test jack and observe that the selector releases properly.

5. REPORTS:

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