

ANSWERING JACK CIRCUITS NO. 9 (SPECIAL) OFFICE

1. GENERAL:

- 1.1 This section provides for a current flow test of the subscribers' line relays, a check of the answering jack circuits, an operating check of the line auxiliary signals and an operating check of the night alarm feature in No. 9 (special) offices.
- 1.2 The tests are to be made on a one-man basis from the front of the switchboard, and should be made during periods of light load so as not to cause interference to subscribers' calls.

2. APPARATUS:

- 2.1 No. 35-C Test Set, or equivalent.

cut in when all slides are to the extreme right. Care should be taken to see that the scale change key, designated MIL-AMPS, is not operated from its normal position unless the reading on the normal (.750 ampere) scale indicates that the current flow in the circuit does not exceed the scale range, as indicated by the designation of the position to which the key is to be operated. Before operating the MIL-AMPS key, a current flow which approximates the desired value should be set up on the normal (.750 ampere) scale of the millammeter; then the MIL-AMPS key should be operated to the .015 ampere position and the final value accurately set

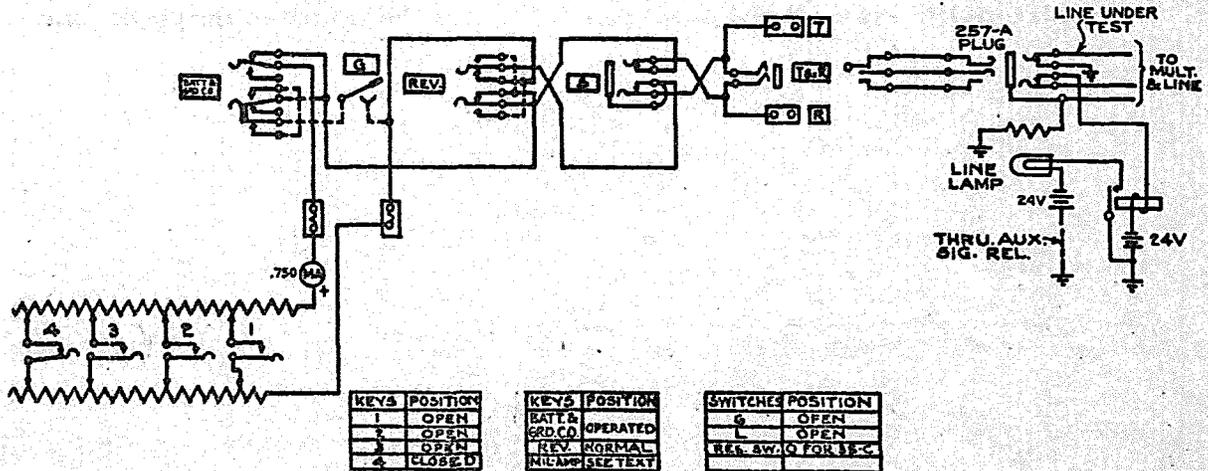


Fig. 1

- 2.2 No. P3E Cord equipped with a No. 110 Plug on one end and a No. 257-A Plug on the other end.

Note: When testing No. 112 jacks, the No. 257-A plug may be modified by placing a collar over the sleeve. The length of this collar should be such that the No. 257-A plug will only enter the No. 112 jack far enough to make contact with the tip and ring springs of the jack.

3. TEST SET PREPARATION:

- 3.1 Before using the current flow test set, care should be taken to see that all resistance is cut in to avoid damaging the millammeter. On the No. 35-C test set, all resistance is

up. The position of any of the red slides should not be changed while the MIL-AMPS key is in an operated position. These precautions will keep the current value within the limits of the millammeter scale used, thus avoiding damage to the millammeter.

- 3.2 Arrange the test set keys and switches as shown in Fig. 1, for this test.
- 3.3 Insert the No. 110 plug of the No. P3E cord into the T & R jack of the test set and the No. 257-A plug in the answering jack of the first line to be tested. The white line on the 257-A plug should be on the top.

NOTE: The springs of this tool were made purposely weak so that if the tool

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were inserted improperly in the jack or turned while in the jack no injury to the jack springs would result. Because of this, the tool should be used with a reasonable amount of care.

- 3.4 With the locking lever of key No. 4 closed, move the associated No. 4 resistance slides to the left until the specified TEST "release" value is observed on the milammeter. After the approximate value is obtained, operate the MIL-AMPS key to 15 and check the accuracy of the reading on the .015 ampere scale. Make any further changes in the No. 4 resistance slides which may be necessary to obtain the exact specified TEST "release" value and then release the MIL-AMPS key.
- 3.5 With the locking lever of key No. 4 closed, depress key No. 3 and move the associated No. 3 resistance slides to the left until the specified TEST "operate" value is observed on the milammeter. After the approximate value is obtained, operate the MIL-AMPS key to 15 and check the

accuracy of the reading on the .015 ampere scale. Make any further changes in the No. 3 resistance slides which may be necessary to obtain the exact specified TEST "operate" value and then release the MIL-AMPS key and key No. 3.

- 3.6 The above values are given in an Appendix to Section 491.498.

4. METHOD:

- 4.1 Proceed with the test, keeping the locking lever of key No. 4 closed, depressing and releasing key No. 3 momentarily. Observe that the line lamp associated with the line under test lights and is of proper brilliancy while the key is depressed and is extinguished when the key is released. Observe that the line auxiliary signal lamp lights with each line lamp signal and that the night alarm operates from each auxiliary signal group.

5. REPORTS:

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