

SUBSCRIBER LINE CIRCUIT RELAYS
NO. 10 OFFICE

1. GENERAL

- 1.01 This section describes the test of subscriber line circuit relays.
- 1.02 This section is reissued to include information on disconnecting the line when testing and an improved testing method for coin line circuits.
- 1.03 These tests are set up on a one-person basis, and should be made during periods of light traffic load in order to avoid interference to service.
- 1.04 The electrical requirements for the line relays are given in Section A491.502.

2. APPARATUS

- 2.01 No. 35-C (or No. 35-A) Test Set.
- 2.02 No. P3E Cord equipped with a No. 110 Plug on one end and a No. 257-A Plug on the other end.
- 2.03 No. 258-A (Dummy) Plug.

3. METHOD

- 3.01 Insert a No. 258-A plug into a multiple jack of the subscriber line, ahead of the jack through which the test connection is established to the line relay.
- 3.02 Before using the No. 35-C (or No. 35-A) test set make sure that all resistance sliders are at the extreme right, to avoid damaging the milammeter needle.

Non-Coin Lines

- 3.03 Arrange the test set keys and switches as shown in Fig. 1.
- 3.04 Insert the No. 110 plug of the No. P3E cord into the TEST T & R jack of the test set and the No. 257-A plug into the answering jack associated with the line relay to be tested. The white line on the No. 257-A plug should be on top.
- 3.05 Operate the locking lever of key 4 and set the associated resistance slider for the specified test "release" current value.
- 3.06 With the locking lever of key 4 operated, depress key 3 and set the associated resistance slider for the specified test "operate" current value.
- 3.07 With the locking lever of key 4 operated, depress and release key 3 momentarily. Observe that the lighting of the line lamp associated with the line relay under test follows the depressing and releasing of key 3. Also observe that the auxiliary signal lamp lights and that the night alarm operates with each line lamp signal.

Coin Lines

- 3.08 Arrange the test set keys and switches as shown in Fig. 2 and connect an answering cord to the TEST-BATT & GRD jack.

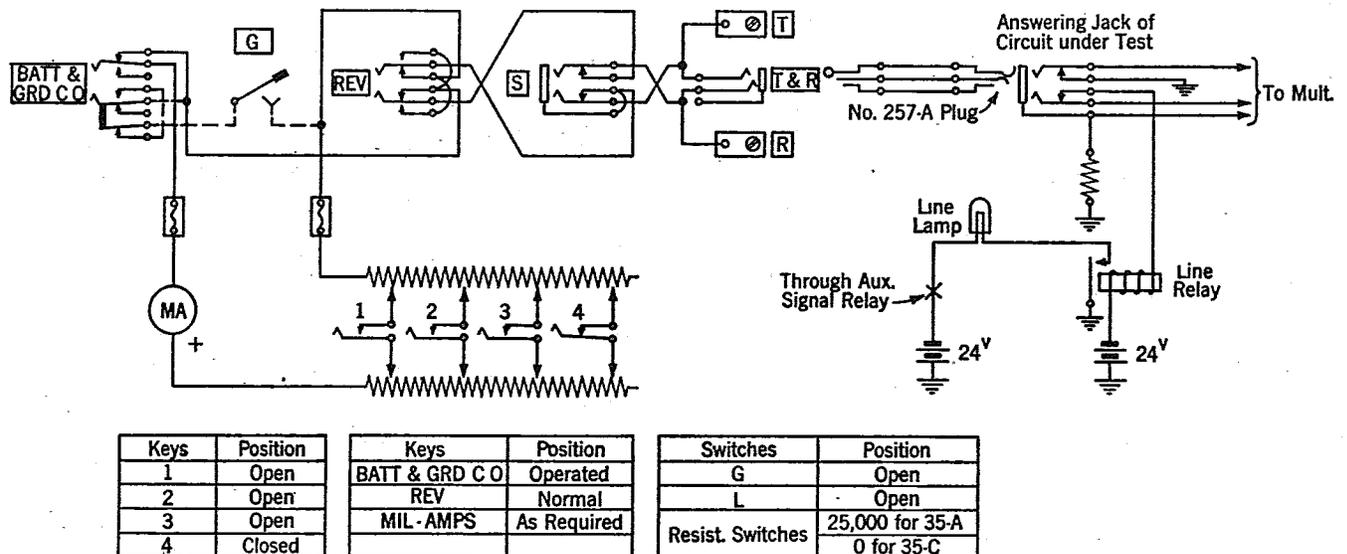


Fig. 1

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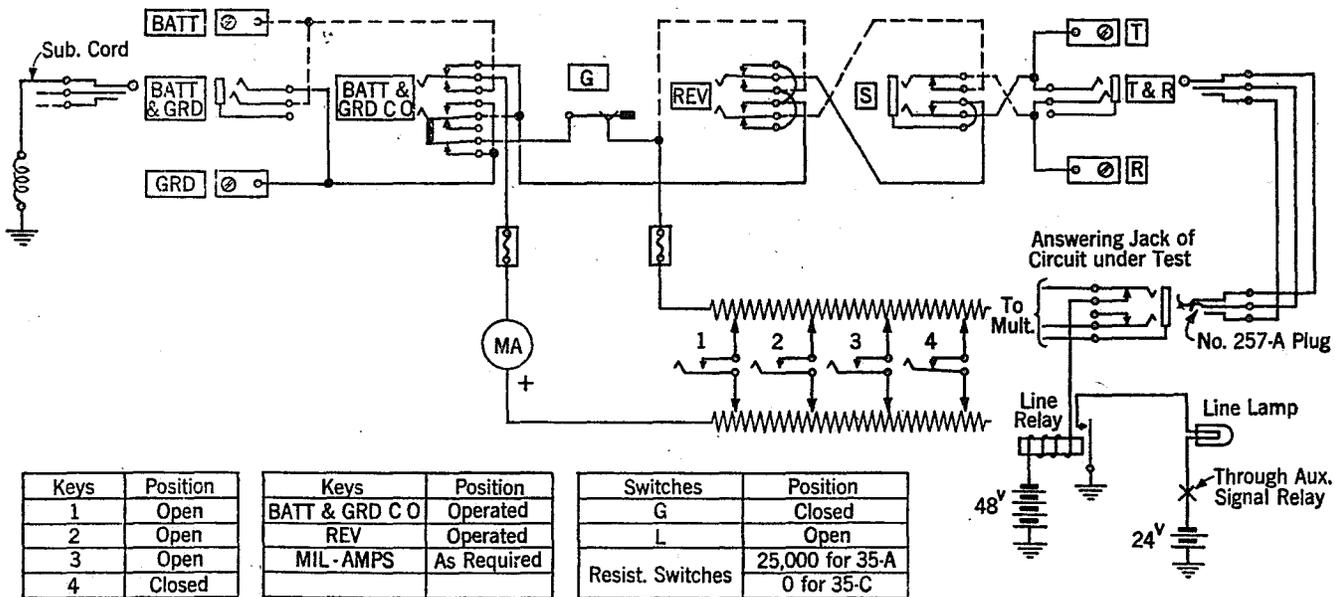


Fig. 2

- 3.09 Insert the No. 110 plug of the No. P3E cord into the TEST T & R jack of the test set and the No. 257-A plug into the answering jack associated with the line relay to be tested. The white line on the No. 257-A plug should be on top.
- 3.10 Operate the locking lever of key 4 and set the associated resistance slider for the specified test "release" current value.
- 3.11 With the locking lever of key 4 operated, depress key 3 and set the associated resistance slider for the specified test "operate" current value.
- 3.12 With the locking lever of key 4 operated and with key 3 normal, depress key 2 and set the associated resistance slider for the specified "saturate" current value.
- 3.13 With the locking lever of key 4 operated and the other keys normal, depress key 1 and set the associated resistance slider for

the specified test "non-operate" current value.

- 3.14 With the locking lever of key 4 operated depress key 2 for about one second. Then release key 2 and depress and release key 1. Observe that the line lamp does not light when key 1 is operated.
- 3.15 With the locking lever of key 4 operated, depress key 2 for about one second. Then release key 2 and depress and release key 3 momentarily. Observe that the lighting of the line lamp follows the depressing and releasing of key 3. Also observe that the auxiliary signal lamp lights and that the night alarm operates with each line lamp signal.

4. REPORTS

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