

REGENERATIVE REPEATER CIRCUIT
TELETYPEWRITER SWITCHBOARD NO. 1

1. GENERAL

- 1.01 This section describes tests of regenerative repeater circuits associated with teletypewriter switchboard No. 1.
- 1.02 This section is issued to replace Provisional Section A281.807 and to cover minor changes and additions. This section cancels Section A281.807.
- 1.03 These tests require two persons, one at the No. 15 test board and one at the switchboard, usually an operator.

2. APPARATUS

- 2.01 No. 10A Tuning Fork.

3. PREPARATION

- 3.01 In order to insure correct operation of the regenerative repeater, note that the distributor brushes are in good condition and properly adjusted. Also note that the distributor faces are clean.

4. METHOD

- 4.01 At the No. 15 Test Board: Insert the plugs of the ANS and CALL cords of the cord transmission testing circuit into the ANS and CALL jacks, respectively, of the cord transmission testing trunk.
- 4.02 At the Switchboard: Note that the regenerative repeater circuit to be tested is not busy and insert the calling plugs of two idle cord circuits into the A and B jacks of the regenerative repeater circuit and insert the answering plugs of these cords into the A and C jacks of the cord transmission testing trunk, respectively.
- 4.03 At the No. 15 Test Board: The ANS and CALL lamps of the cord transmission testing circuit should light.
- 4.04 At the Repeater: The regenerative repeater motor should start. Observe that the RGN REP key is in its normal posi-

tion and that both duplex keys are set at HALF DUPLEX. Check that the repeater motor is operating at the proper speed with the No. 10A tuning fork while signals are passing through the repeater.

4.05 At the No. 15 Test Board: If the local orientation range of the test board attendant's teletypewriter is not known, determine the range and record the reading.

4.06 Operate the SEND ON ANS and TTY SIGNALS keys. Measure the orientation range on signals that have come through the repeater. The upper and lower limits of the orientation range measured on these signals should be within ± 2.5 points respectively of the corresponding limits of the local range of the test board attendant's teletypewriter without the repeater in the circuit as covered in 4.05.

4.07 Restore the SEND ON ANS key and operate the SEND ON CALL key. Repeat 4.06.

4.08 Restore the TTY SIGNALS and SEND ON CALL keys and momentarily operate the DISC key.

4.09 At the Switchboard: Both supervisory lamps of the cord circuits should light as an indication that the test has been completed. Upon the receipt of the disconnect signal the plugs of the cord circuits should be removed from A and C jacks of the cord transmission test trunk and the A and B jacks of the regenerative repeater circuit.

4.10 At the No. 15 Test Board: The supervisory lamps associated with the cord transmission testing circuit should be extinguished. Remove the plugs of the answering and calling cords of the cord transmission test circuit from the ANS and CALL jacks of the cord transmission test trunk.

5. REPORTS

- 5.01 The required record of this test should be entered on the proper form.