

## CHIEF OPERATORS' DESK CIRCUITS

### 1. GENERAL

1.01 This section covers the detailed method to be followed in making transmission tests on chief operators' desk circuits in step-by-step offices.

1.02 Information covered in this section of Practices is outlined in the following table:

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1.03 Reference should be made to Section K20.01 for general testing methods and to Section K20.11 for general testing apparatus requirements.

### 2. SINGLE-ENDED CORD CIRCUIT AND ASSOCIATED TELEPHONE CIRCUIT

#### (a) Cord Circuit

2.01 These circuits are tested in conjunction with the associated telephone circuit.

#### (b) Telephone Circuit

2.02 Figure 1 shows schematically the connections for the test.

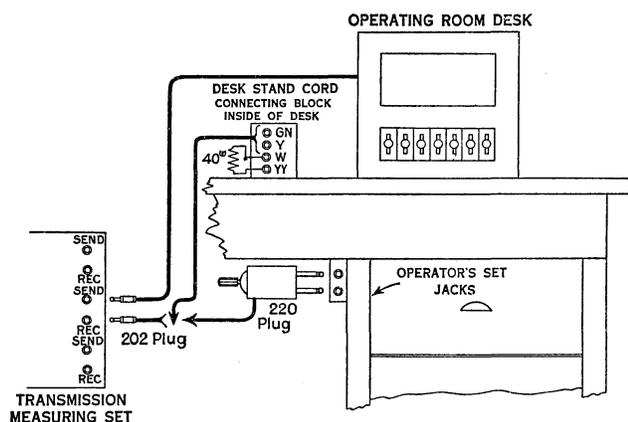


Figure 1

2.03 Insert the No. 220 plug in the telephone set jacks associated with the chief operator's desk under test, with the key of the plug in the T position.

2.04 Insert the No. 202 plug associated with the No. 220 plug in the receiving jack of the transmission measuring set.

2.05 Insert the plug of the monitoring cord circuit in the sending jack of the transmission measuring set.

2.06 Operate the key associated with the monitoring cord of the operator's desk to the talking position.

2.07 With the transmission measuring set in the measuring condition, perform the operations outlined in paragraphs 2.08, 2.09 and 2.10.

2.08 Rotate the plug of the cord circuit slowly in the test jack to detect cutouts due to a defective or dirty plug.

2.09 Test the cord for cutouts by holding the plug firmly in the jack and rotating the cord slowly with a cranking motion.

2.10 Test all keys associated with the cord circuit for cutouts in the normal and operated position (except ringing and flashing keys in the operated position) by tapping the key tops lightly and moving the levers slightly forward and backward.

2.11 Measure the transmission loss.

Note: This will be the loss of the telephone circuit in the transmitting condition.

2.12 Restore the key of the monitoring cord circuit to normal.

2.13 Operate the key of the No. 220 plug to the R position.

2.14 Measure the transmission loss.

Note: This will be the loss of the telephone circuit in the receiving monitoring condition.

2.15 Remove the No. 202 plug associated with the No. 220 plug from the receiving jack of the transmission measuring set.

2.16 Restore the key of the No. 220 plug to the normal position.

2.17 On the transmission measuring set connect the sending T and R terminals, respectively, to the receiving T and R terminals.

Note: When a transmission measuring set of the No. 3 type is used, these connections are made through the jack

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contacts of the set when a dummy plug is removed from a jack other than the one to be used in this test.

- 2.18 Measure the transmission loss.

Note: This will be the loss of the telephone circuit in the bridged monitoring condition.

- 2.19 Operate the key of the monitoring cord circuit to the talking position.

- 2.20 Measure the transmission loss.

Note: This will be the loss of the telephone circuit in the bridged talking condition.

**(c) Attendant's Telephone Set Circuit (Desk Stand)**

- 2.21 Remove the desk stand connections from the terminal block inside the desk.

- 2.22 To the GN-Y terminals connect a 200-ohm resistance, and to the W-YY terminals connect a 40-ohm resistance.

- 2.23 On the transmission measuring set connect the sending T and R terminals, respectively, to the receiving T and R terminals.

Note: When a transmission measuring set of the No. 3 type is used, these connections are made through the jack contacts of the set when a dummy plug is removed from a jack other than the one to be used in this test.

- 2.24 Operate the key associated with the cord circuit to the talking position.

- 2.25 Measure the transmission loss.

Note: This will be the loss of the telephone circuit in the bridged talking condition and the monitoring cord circuit.

- 2.26 Remove the strapping between the sending and receiving T and R terminals of the transmission measuring set.

- 2.27 Remove the 40-ohm resistance from the W-YY terminals and connect to these terminals the receiving terminals of the transmission measuring set.

- 2.28 Measure the transmission loss.

Note: This will be the loss of the operator's telephone circuit in the transmitting condition.