

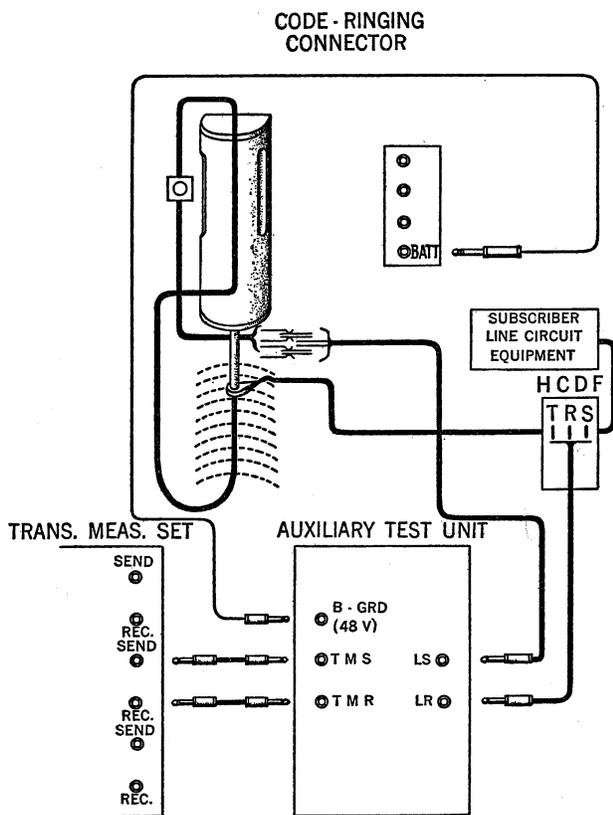
CODE RINGING CONNECTORS

1. GENERAL

- 1.01 This section covers the detailed method to be followed in making transmission tests on code ringing connectors.
- 1.02 Reference should be made to Section K20.01 for general testing methods and to Section K20.11 for general testing apparatus requirements.

2. TESTING METHOD

- 2.01 These connectors should be tested from the test jacks of the connectors to be tested, and the connections to the transmission measuring set completed over a vacant connector multiple terminal at the HCDF.
- 2.02 Figure 1 shows schematically the connections for the test.



□ Apparatus in Transmission Circuit

Figure 1

Preliminary Connections

- 2.03 Provide three regular double-ended patching cords equipped with 110 type plugs,

one No. P3C cord equipped with a No. 110 plug and a No. 240-A plug (No. 4 Terminal Open), and a special patching cord equipped and connected as indicated below:

110 Type Plug connected to a 234 or Similar Type Plug

Tip	No. 1 Terminal
Ring	No. 2 Terminal
Sleeve	No. 3 Terminal
	No. 4 Terminal Open

- 2.04 Connect the TMS and TMR jacks of the auxiliary test unit, respectively, to the sending and receiving jacks of the transmission measuring set using two of the regular patching cords.
- 2.05 Connect the B-GRD (48V) jack of the auxiliary test unit to 48-volt battery and ground (battery on tip and ground on sleeve) using a regular patching cord.

Note: This battery and ground may be obtained from any source convenient to the location of the testing apparatus, preferably a nearby BATT jack.

- 2.06 Select a vacant connector terminal at the HCDF in the group in which the connectors under test have access and connect subscriber line circuit equipment to the tip, ring and sleeve terminals.
- 2.07 Connect the LR jack of the auxiliary test unit to the vacant connector terminal at the HCDF using the special patching cord described in paragraph 2.03.
- 2.08 Insert the No. 110 plug of the No. P3C cord in the LS jack of the auxiliary test unit.

Testing Procedure

- 2.09 Operate the following keys of the auxiliary test unit to the position specified. Keys not mentioned should remain in the normal position.

Key 1 to OPEN	Key 5 to S1
Key 2 to OPEN	Key 6 to BATT
Key 3 to MET	Key 7 to OPEN
Key 4 to MET	Key 8 to BATT
	Key 12 to SL

- 2.10 Insert the No. 240-A plug of the No. P3C cord connected to the LS jack of the auxiliary test unit into the test jack of an idle connector to be tested and operate key 1 of the auxiliary test unit to TEST.

Note: Before operating key 1 of the auxiliary test unit to TEST, inspect the

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shaft and wiper to determine if the connector is still idle. If the connector is not idle, another connector should be chosen for test and the operation just outlined repeated.

- 2.11 Dial the last two digits of the number of the terminal to which the special patching cord is connected at the HCDF. At the conclusion of this dialing, the sleeve lamp of the auxiliary test unit associated with the LR jack should light. Then dial one additional digit for the ringing code to complete the transmission circuit.
- 2.12 Operate key 1 and key 2 of the auxiliary test unit to HOLD. The sleeve lamp associated with the LR jack remains lighted.
- 2.13 With the transmission measuring set in the measuring condition, test the connector for cutouts by tapping the cover and by carefully tapping the wiper cords with a pencil.
- 2.14 Measure the current supply from the "D" relay of the connector (called subscriber's end which is associated with the LR jack of the auxiliary test unit) while depressing key 10 of the auxiliary test unit to remove the holding bridge from the circuit.
- 2.15 Measure the current supply from the "A" relay of the connector (calling subscriber's end which is associated with the LS jack of the auxiliary test unit) while depressing key 9 of the auxiliary test unit to remove the holding bridge from the circuit.
- 2.16 Release the connector by operating key 1 and key 2 of the auxiliary test unit to OPEN and removing the No. 240-A plug from the test jack.
- 2.17 Repeat the above testing procedure for the remaining connectors to be tested.