

KS-20449 AMPLIFIER  
INSTALLATION, CONNECTIONS, AND MAINTENANCE1. GENERAL

1.001 This addendum supplements Section 024-174-200.

1.002 This addendum adds Part 5, which provides information for use of the KS-20449 amplifier in the multibutton telephone set receiver circuit. Its use will amplify or limit the signal received to any preset level as specified by the customer.

1.003 The only authorized usage is for automatic gain control (AGC) connections as shown.

5. PROCEDURES FOR AMPLIFYING AND LIMITING SIGNALInstallation and Connections

5.01 The amplifier operates from 24-volt or 48-volt positive or negative grounded power supply.

5.02 Refer to Figure 4 for installation and connections and to the section for any additional information.

5.03 Obtain 200-ohm  $\frac{1}{4}$  watt resistor locally and connect per Figure 4.

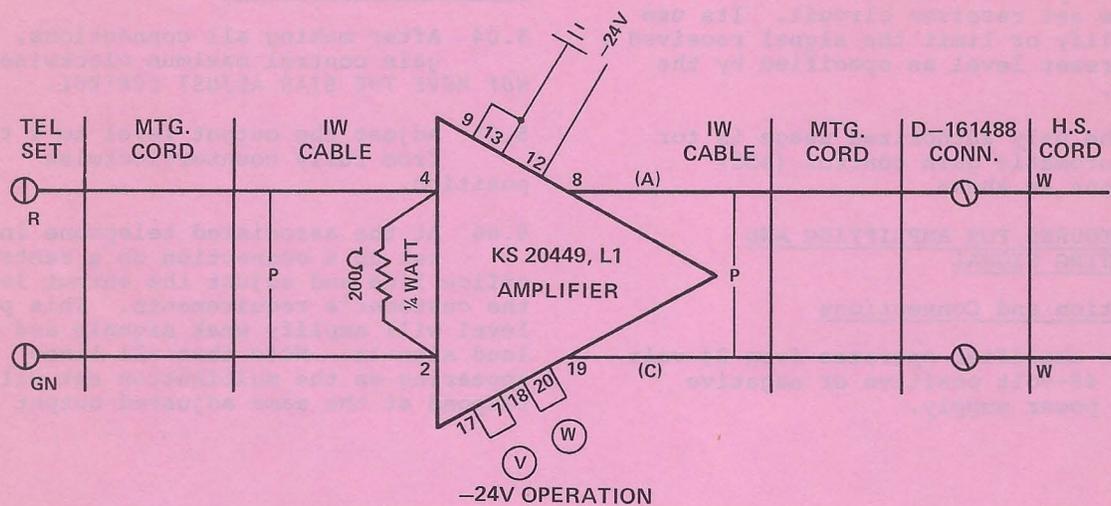
Tests and Adjustments

5.04 After making all connections, turn the gain control maximum clockwise. *DO NOT MOVE THE BIAS ADJUST CONTROL.*

5.05 Adjust the output level to  $\frac{1}{4}$  turn from fully counterclockwise position.

5.06 At the associated telephone instrument set up a connection on a central office line and adjust the output level per the customer's requirements. This preset level will amplify weak signals and reduce loud signals. Note that all lines appearing on the multibutton set will respond at the same adjusted output level.

**FIGURE 4**



SEE FIGURE 4 AND COMPLETE THE FOLLOWING STEPS:

1. REMOVE THE WHITE HANDSET CORD RECEIVER CONDUCTORS FROM R AND GN PUNCHINGS ON TELEPHONE SET NETWORK.
2. CLOSE SPARE PAIR MOUNTING CORD CONDUCTORS ON R AND GN PUNCHING AND USE SPARE CABLE PAIR TO CONNECT TO AMPLIFIER.
3. USE SPARE CABLE AND MOUNTING CORD PAIRS WHEN WIRING FROM AMPLIFIER TO TELEPHONE SET. CLOSE THE SPADE ENDED MOUNTING CORD CONDUCTORS TO THE SPADE ENDED WHITE CONDUCTORS OF THE HANDSET CORD USING TWO D-161488 CONNECTORS.
4. DO NOT USE QUAD OR KS-7144 FLAT CORDAGE WIRING BETWEEN EQUIPMENT.