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## **INSTALLATION/OPERATION INSTRUCTIONS U3810 RADIO INTERFACE MODULE**

### **DESCRIPTION**

The U3810 Radio Interface Module is designed to combine the transmit and receive functions of a mobile radio with the David Clark Company Series 3800 Intercom System. The U3810 has a radio push-to-talk (PTT) button, connectors for the U3800 Master Station and mobile radio, plus connectors for customer supplies remote PTT. Use of this module causes all 3800 intercom communications to be transmitted by the radio when the PTT button is pressed.

### **INSTALLATION**

1. Select a mounting location where the headset cord will not interfere with the operator's job function or otherwise force actions that may jeopardize safe operation when using the module's PTT button.
2. Mount the U3810 by placing one grommet between each of the four mounting brackets and the mounting surface. Grommets are provided with the module but fasteners are not. The type of fastener selected should be based on mounting location.
3. All cords have military type screw-on connectors. Install cords as follows:
  - a. Align key-way slot on cord connector with key in threaded connector on module.
  - b. Insert pins into socket until firmly seated.
  - c. Hand tighten swivel nut on cord connector.
4. A C3821 Radio Interface Cord is required to connect the mobile radio to the U3810. Following the schematic supplied with the C3821, install the cord from the mobile radio to the "Radio Input" connector on the U3810.
5. A C38-XX Jumper Cord, of desired length, is required to connect the U3810 to a U3800 Master Station or another Remote Headset Station. Connect one end of the C38-XX to the "System Input" connector on the U3810 and the other end to the "Remote Output" on the U3800 or to any "Input" or "Output" connector on a Remote Headset Station.
6. If a customer furnished remote PTT switch is being used, install the cord to a "Remote PTT" connector on the U3810. The remote PTT is a 2 pin connector that keys the radio only when the pins are shorted together.

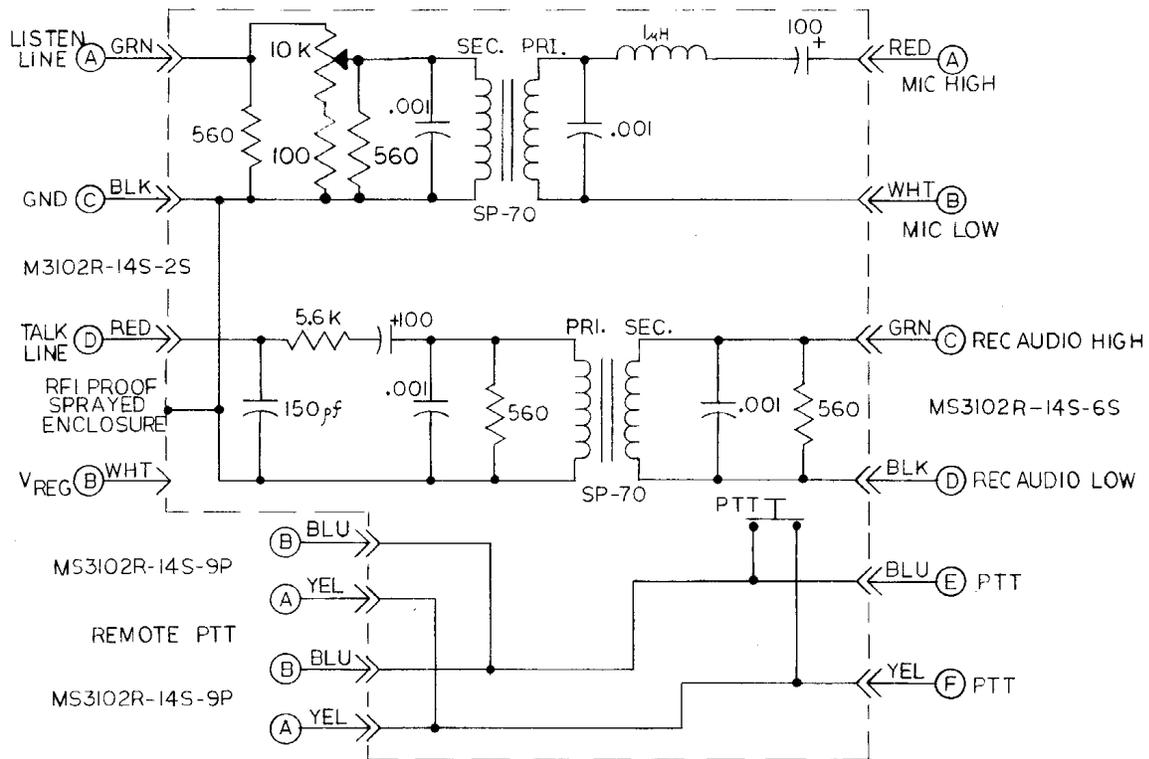
### **OPERATION**

1. Adjust headset for a comfortable fit. Position the boom-mounted microphone directly in front of your mouth, no more than 1/8 inch from your lips.
2. To transmit over the radio, depress and hold the PTT button. Release the button when the transmission is completed, allowing the response to be heard.

**NOTE:** Radio transmits everything said on intercom when push-to-talk button on U3810 Radio Interface Module or any remote PTT is depressed.

- To transmit using a customer furnished remote PTT switch, depress and hold the remote PTT button and talk into the headset microphone. Release the button to listen.

**NOTE:** Radio speakers mounted near the headset may produce feedback, causing a squeal when transmitting. If this occurs, measures may have to be taken to reposition speakers or to add a cut-off switch to the speaker line.



- NOTES:**
- All resistor values are in ohms, 1/4 W, 5% tolerance unless otherwise specified.
  - All capacitor values are in microfarads unless otherwise specified.

Figure 1. Model U3810 Radio Interface Module Schematic Diagram.