David Clark COMPANY INCORPORATED

360 Franklin Street, Box 15054, Worcester, MA 01615-0054
TEL. (508) 751-5800 E-Mail sales@DavidClark.com FAX: (508) 753-5827

MODEL U3815A
INSTALLATION/OPERATION INSTRUCTIONS
HEADSET STATION/REMOTE PTT

DESCRIPTION

The U3815A Headset Station/Remote PTT is designed to combine the transmit and receive functions of a mobile radio with the David Clark Company Series 3800 Intercom System. The Module has a headset jack, push-to-talk (PTT) button, radio input connector, two intercom connectors and a remote PTT connector. A listen level control allows the user to adjust their headset volume to suit individual preference without affecting the volume of other users within a system.

An important feature of the U3815A is that while the PTT button is depressed, or while a remote PTT switch is activated, radio transmission is limited to the user who's headset is connected to this module.

INSTALLATION

1. Select a mounting location where the headset cord will not interfere with the user's job function or otherwise force actions that may jeopardize safe operation when using the module's PTT button.

2. Mount the U3815A 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 and surface material.

CONNECTION

1. All cords have keyed connectors. Install cords as follows:

   a. Align key-way slot on cord connector with key in corresponding connector on module.
   b. Insert cord connector until firmly seated.
   c. Hand tighten swivel nut on cord connector.

      NOTE: Do not overtighten.

2. AC3821 Radio Interface Cord is used to connect the U3815A module to a mobile radio. Connections for the C3821 are as follows:

Color	Function
Red	Microphone High
White	Microphone Low
Green	Speaker High
Black	Speaker Low
Blue	PTT Low and Shield
Yellow	PTT High

Attach the stripped end of the C3821 to the radio using the connections as   above. Connect the end of the C3821 with the 6-pin connector to the 6-socket connector on the U3815A,   labeled "Radio Input".

> **NOTE:**   If more than one radio interface module is used in a series 3800
> System, connected to a common mobile radio, the speaker audio
> connections should be made to only one of the modules.

3. C38-** Jumper Cords, of appropriate length, are used to connect the U3815A   Module to other components within the system. Connect one end of the jumper cord to one   of the connectors on the U3815A labeled "System Input" and the other end of the   jumper cord to a connector on the U3800, or other module, labeled "System Input", or "Remote Output".

> **NOTE:**   All of the 4-socket connectors on any module within a system are
> acceptable connection points for jumper cords.

4. Remote PTT switches of several types may be used in conjunction with the U3815A. Thes   e devices attach to the U3815A using the 5-socket connector labeled "Remote PTT. These switches include the following:

   a. Headset Belt Station, Model C3023, which is a belt pack containing a headset jac   k, listen level control, PTT switch, belt clip, and a 15-foot coil cord.

   b. Footswitch, P/N 40071G-04, which is a heavy-duty footswitch with a 15-foot cord.

   c. Any SPST switch may also be used. A connector kit P/N 18352G-07 is used to connect to the U3815A.
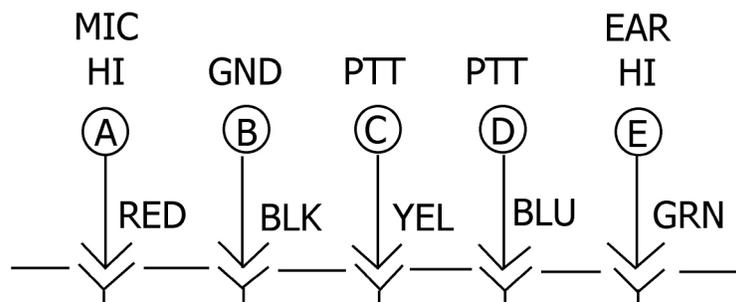
18352G-07 Connector Kit

Figure 1. Remote PTT Connector Diagram

5. Connect a headset to the connector on the face of the U3815A by lifting the cover on the U3815A and seating the headset connector firmly into the receptacle.
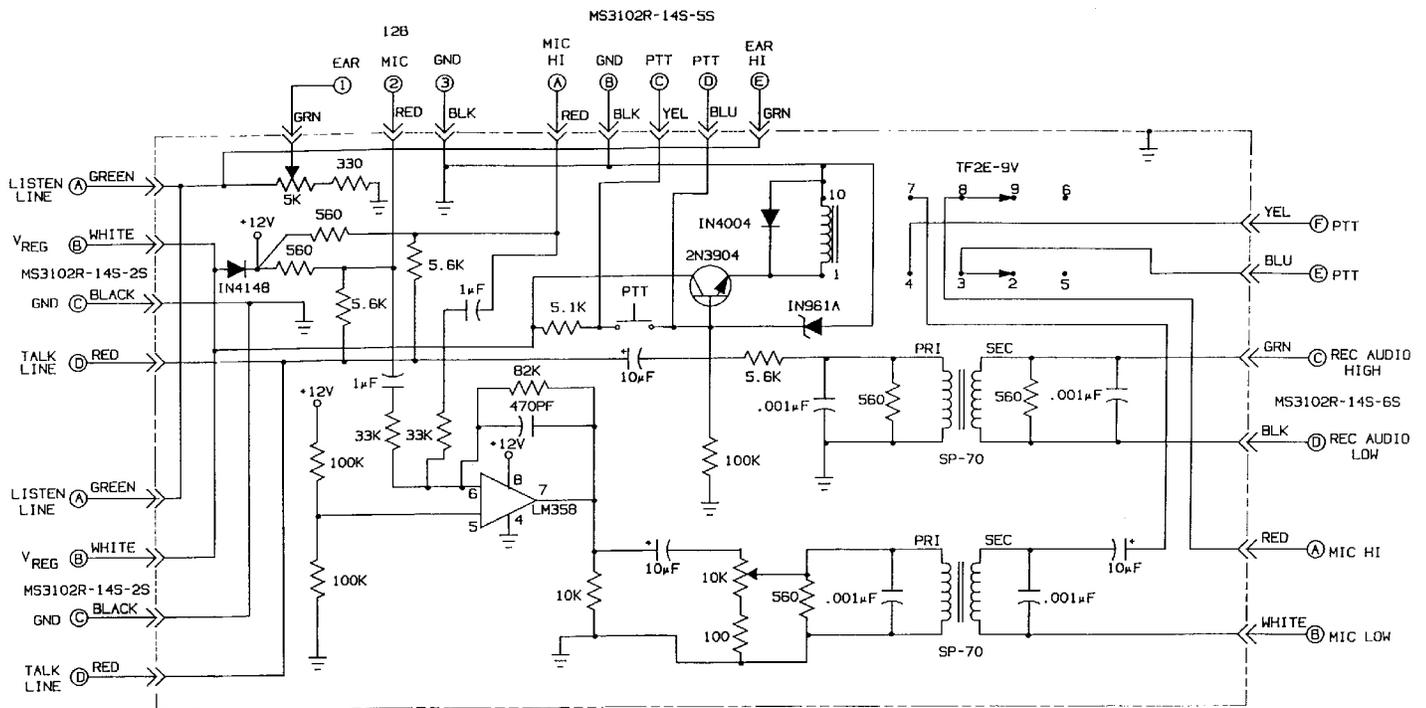
OPERATION

1. Adjust the headset for a comfortable fit.

2. Position the boom-mounted microphone directly in front of your mouth, within 1/8" of your lips.

   NOTE: In order to properly cancel background noise and provide clear communications, placement of the **microphone must be within 1/8" of your lips.**

3. The microphone is activated/deactivated by pushing the switch on the earcup of the headset. It is not necessary to hold this switch. Push to activate, push again to deactivate.

4. Adjust the listen level control on the U3815A to a comfortable level.

5. The receive audio from the radio will be heard in all headsets connected to the system.

6. To transmit over the radio, depress and hold the PTT switch on the U3815A or depress and hold the remote PTT switch, if your system is so equipped.

   NOTE: Radio speakers mounted near the headset may produce feedback, causing a squeal when transmitting. If this occurs the speaker should be relocated, or a speaker cutoff switch should be installed.

NOTE:
Unless otherwise specified.
All resistor values are in ohms.
1/4 watt 5% tolerance.