HDM-440 Half Duplex Master Module
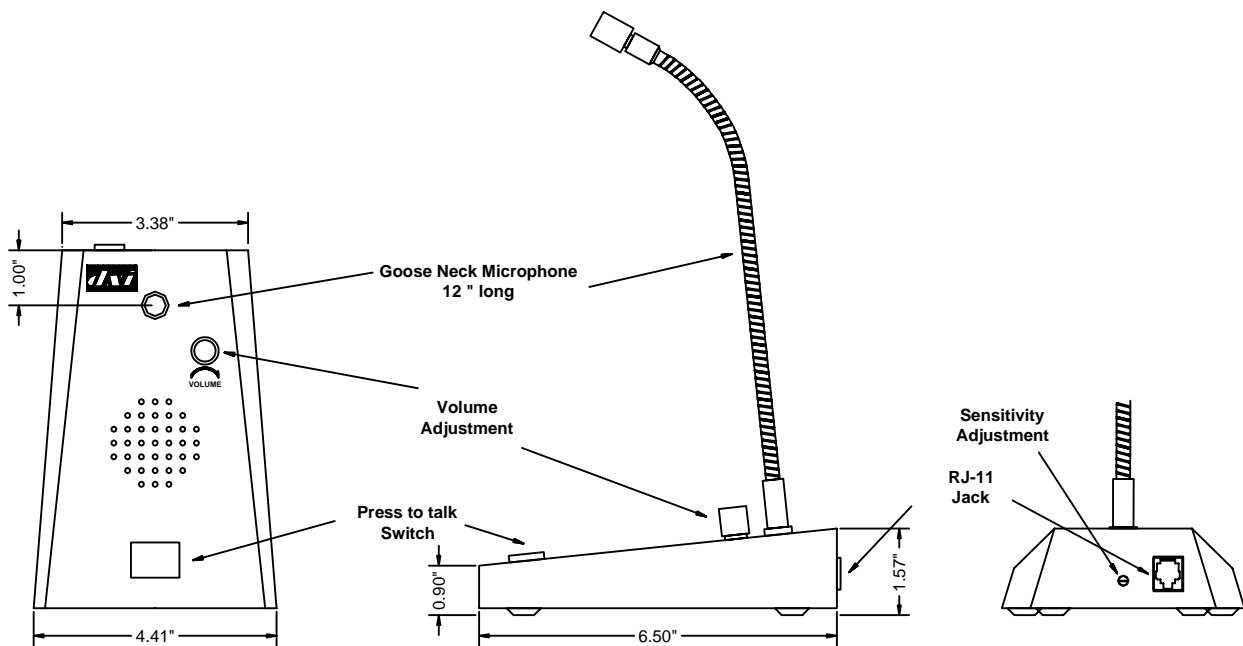
1.   Intent & Scope

This document describes the installation procedure for the HDM-440 Half Duplex Master Module.

2.   Description

The HDM-440 is a desktop unit consisting of a speaker, a gooseneck electret microphone, a push-to-talk (PTT) switch, a rotary knob volume control, and a screwdriver adjustment to set the microphone sensitivity. The unit has provision to connect an external PTT switch and inputs to power a LED inside the PTT switch. The unit is designed to connect to a station port on a SAB-400.

The HDM-440 is connected via a standard 6-conductor telephone cable with a male RJ-11 plug on the end that connects to the unit. The HDM-440 has a 6-pin female RJ-11 jack located on the back of the unit.
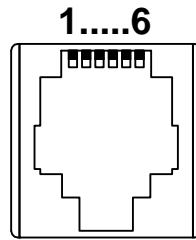

HDM-440 Showing RJ-11 Jack

3.   Installation

The HDM-440 has a 6-pin female RJ-11 jack.

1.....6

RJ-11 Female Jack

The pin outs for the RJ-11 are as follows.

RJ-11 Pin Number	Function
1	LED +
2	PTT +
3	Audio +
4	Audio -
5	PTT Gnd
6	LED – (Gnd)

The Audio+ and Audio- pins are connected to an Audio+ and Audio- port on a SAB-400. Proper polarity must be maintained.

An external PTT switch can be connected to pins 2 and 5 of the RJ-11. This switch is in parallel with the PTT switch on the unit and functions the same as the built-in PTT switch. It can be added to provide for a more convenient operation.

An input of +24 volts across pins 1 and 6 will turn on a LED located inside the PTT switch. The LED can be used to provide an optional signal.

4.   Adjustment

Turning the sensitivity adjustment control fully counterclockwise makes the microphone the most sensitive. Turning the sensitivity control clockwise converts the microphone to close talking operation.