

# **SWM-EQ SEVEN BAND EQUALIZER MODULE**

## **SPECIFICATIONS**

### **Features**

- 7 active filters
- Modified 1 octave equalization
- $\pm 12$  dB boost or cut
- Constant Q equalization
- Power "ON" indicator
- Booster Output Connection

### **Nominal Specifications**

- Frequency Response: 20 Hz-20 kHz  $\pm 0.5$ dB
- Distortion:  $< 0.3\%$
- Frequency Centers: Band 1 = 60 Hz  
2 = 200 Hz  
3 = 560 Hz  
4 = 1100 Hz  
5 = 2200 Hz  
6 = 4500 Hz  
7 = 10000Hz
- Booster Output: 2.6 VRMS 10K Loading

### **Dimensions**

- 9.3"W x 4.0"H x 2.6"D  
(23.6cm W x 10.2cm H x 6.6cm D)

### **Environment**

- Temperature: 0 to 50 Deg. C
- Humidity 0-85% non-precipitating

## **OPERATION**

The SWM-EQ module (when connected to a SWM-xxxA series amplifier) is used to boost or attenuate specific frequencies to improve voice intelligibility or attenuate frequencies to help reduce feedback. The unit can also be used to modify the frequency response of speakers.

A "POWER" indicating LED and 7 slide controls (1 for each band) are located on the front of the unit.

The frequencies boost/cut (1 to 12 dB) are modified with each filter's slide control.

## **INSTALLATION**

Remove the security cover attached to the equalizer unit with (2) # 6 sheet metal screws. Connections to the SWM-xxxA amplifier are accomplished utilizing three color-coded phono cables and a single power cable (included). See Figure 1 for connections.

The SWM-EQ module is mounted to the bottom of the SWM-35A, 60A or 100A amplifiers. After all connections have been made and double checked, push cables behind voltage regulator and adjacent to component side of PCB, as the equalizer module is secured to the amplifier using the (2) screws provided. Place the "Effects Loop" switch on the amplifier to the "In" position.

After the slide controls have been adjusted to the desired positions, install the security cover with the (2) #6 sheet metal screws.

## **TECHNICAL ASSISTANCE**

When trouble is reported, verify power is being supplied to the unit ("POWER" LED illuminated). Assistance in troubleshooting is available from the factory. When calling, you should have a VOM and be calling from the job site. Call (540) 427-3505 and ask for Technical Support.

CLARITY maintains service facilities in Roanoke, VA. Should repairs be necessary, attach a tag to the unit clearly stating company name, address, phone number, contact person, and the nature of the problem. Send the unit to:

**Repair and Return Dept.  
Clarity  
5614 Hollins Road  
Roanoke, VA 24019**

**947448**

### LIMITED WARRANTY

Clarity warrants its products to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. Inspection by Clarity indicates the validity of the claim;
2. The defect is not the result of damage, misuse, or negligence after the original shipment;
3. The product has not been in any way repaired by others and that factory sealed units are unopened (A service charge plus parts and labor will be applied to units defaced or physically damaged);
4. Freight charges for the return of products to Clarity are prepaid;
5. All units "out of warranty" are subject to a service charge. The service charge will cover minor repairs (Major repairs will be subject to additional charges for parts and labor).

**This warranty is in lieu of and excludes all other warranties expressed or implied, and in no event shall Clarity be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation or use of the product.**

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.

**FIGURE 1 - CONNECTIONS**

