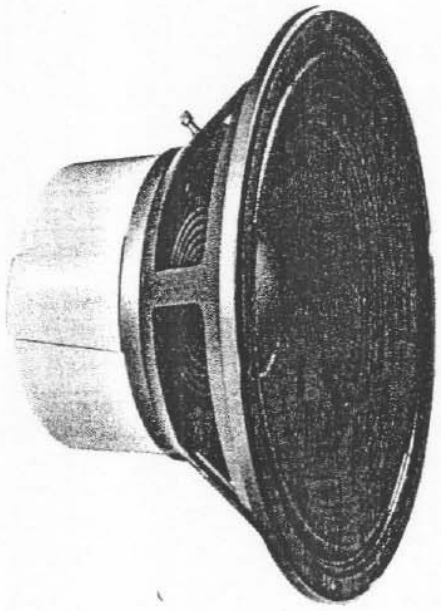

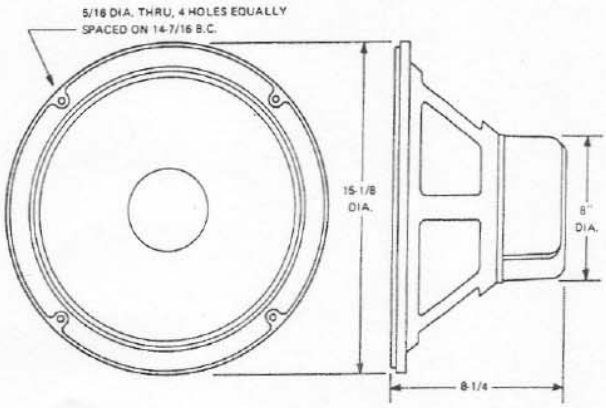


Figure 1 Dimensions

## DESCRIPTION

Speakers used with amplified instruments are subjected to the severest possible operational and handling conditions. Even so, failure of a speaker in live performance is intolerable. The SRO/15 musical instrument speaker combines reliability with high efficiency. A massive die-cast speaker basket and epoxy bonded magnetic structure assure precise alignment of moving parts regardless of the amount of handling encountered during normal usage. The powerful magnet structure combines with an extremely efficient edgewise-wound copper voice coil to produce greater sound pressure level for the same amplifier input. Efficiency of the SRO/15 is up to 3 db greater than original equipment music speakers—and that is the equivalent of doubling your amplifier output.

Efforts to improve the reliability of musical instrument speakers center on two main causes of failure: destruction of the voice coil assembly from excessive power dissipation, and mechanical failure caused by over-driving the mechanical suspension. Careful attention to detail in design and construction of the SRO/15 speaker allow unsurpassed power ratings. The continuous sine wave rating of 60 watts applies to continuous output instruments, such as electronic organs. The initial pulse of a plucked guitar string, on the other hand, produces many times the power of a continuous tone. In such cases, the mechanical power limit is of greater importance than the average power. A single SRO/15 will handle with ease guitar amplifiers of up to 300 watts peak output, as normally rated. So reliable is the SRO/15 that it is guaranteed for life against failure under normal operating conditions.

## INSTALLATION

The SRO/15 is an excellent choice for replacing the present speakers in your system, upgrading sound quality as well as reliability. Cabinet requirements are not critical; you need not worry about modifications to your existing cabinet. However, if a system is being built from scratch, a properly designed enclosure will insure that your system benefits from the full performance of the SRO/15. Specific enclosure recommendations are available directly from Electro-Voice.

Secure the speaker to the baffle board just tightly enough to compress the speaker gasket. Excessive tightening is not necessary as the compressible gasket will form an acoustical seal with nominal pressure. A second nut should be run on the mounting bolt and tightened down against the first nut to prevent its loosening during operation.

## SPECIFICATIONS

| | |
|---|---|
| Nominal Impedance: | 8 – 16 ohms |
| Power Handling Capacity | |
| Continuous Sine Wave: | 60 watts |
| Pulsed Program: | 150 watts |
| Peak: | 300 watts |
| Peak-to-Peak: | 600 watts |
| Voice Coil Diameter: | 2½ inches |
| Magnet Weight: | 4 lb. 10 Oz. Indox Ceramic |
| Magnet Structure: | 16 lbs. |
| EIA Sensitivity Rating: | 54 db |
| Dimensions: | 15-1/8" dia. x 8-1/4" overall depth* |
| Baffle Opening: | 13½" |
| Mounting: | Four 9/32" holes equally spaced on a 14-7/16" circle |
| Net Weight: | 25 lbs. |

*If speaker depth is excessive for a particular cabinet, it may be reduced to 6-3/8" by removing the rear cover. Pry off the nameplate with a knife blade and remove large machine screw. Neither operation nor warranty is affected if cover is properly removed. However, because the cover does provide some additional protection against foreign particles, it should not be removed unless space limitations require it.

ENGINEERING DATA SRO/15 15-INCH MUSICAL INSTRUMENT LOUDSPEAKER

## CONNECTIONS

Use No. 18 or larger fixture wire to connect the two terminals on the loudspeaker to the amplifier output. If a choice of amplifier output impedance is available (4, 8, 16 ohms), a single SRO/15 speaker should be connected to the 8 ohm tap. If two SRO/15 speakers are used, they should be connected in parallel. Be sure to connect the red terminals together as shown in Figure 2. If a choice of amplifier taps is available, connection should be made to the 4 ohm tap. If an array of four speakers is desired, wiring and polarity should follow Figure 3. The correct impedance tap for this configuration is 8 ohms. If a choice of amplifier impedance taps is not available, as in the case of solid state amps, following the above wiring directions will provide the correct impedance for most amps.

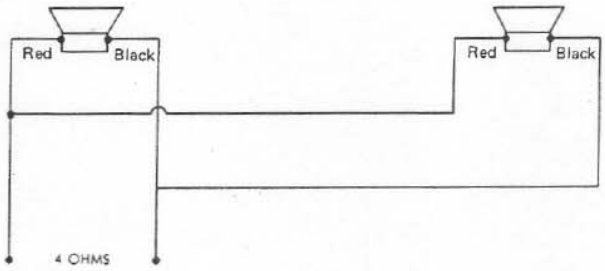


Figure 2 - Connection of two SRO/15 speakers in parallel

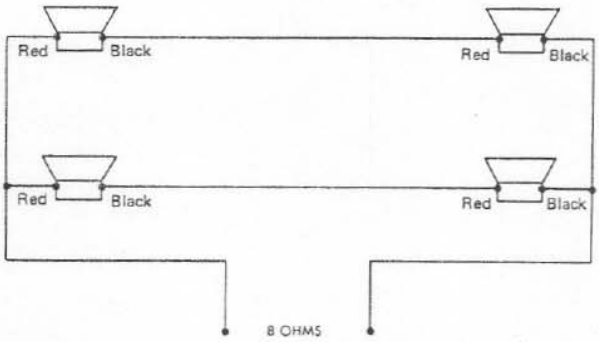


Figure 3 - Connection of four SRO/15 speakers in series-parallel

## CUSTOMER SERVICE

SRO/15 speakers are packed to provide maximum protection – well in excess of the shipping requirements of the Interstate Commerce Commission. If shipping damage does occur, contact the carrier immediately, requesting inspection and instructions, or contact the dealer from whom the unit was purchased.