SVR-212/SVR-215

Extended Low Range Dual Speaker Bass Enclosure With 3 Or 4 Space Rack

Owner's Reference Guide

SVR-212/SVR-215
Extended Low Range Dual Speaker Bass Enclosure With 4 Space Rack

Introduction

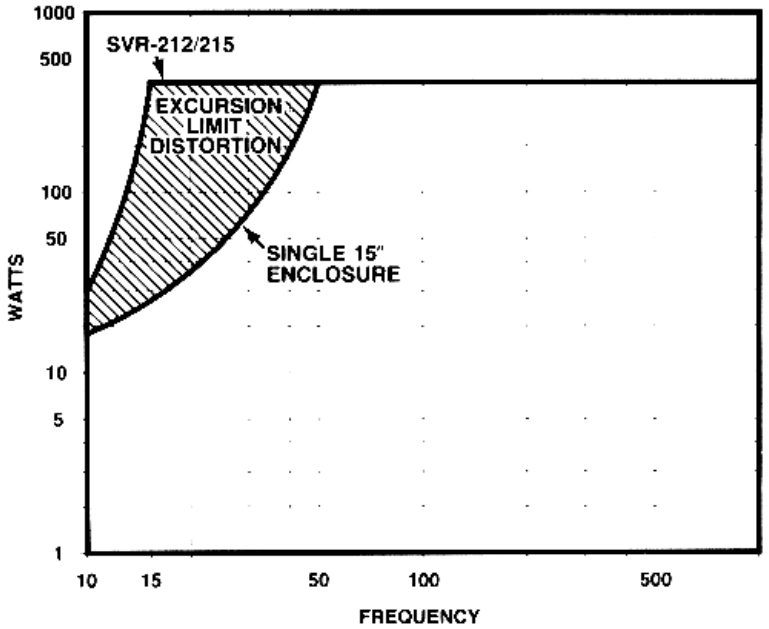
The Ampeg SVR-212/215 bass enclosure is designed to meet the tough standards of high power, high-end professional bass amplifiers. It incorporates state-of-the-art acoustic engineering and craftsmanship.

The SVR-212/215 features include:

- —Two symmetrically loaded low frequency drivers
- —Horn tweeter
- —High Frequency Attenuator with an "OFF" position
- —Rugged enclosure of high-grade plywood
- —Heavy-duty vinyl covering
- —16 gauge steel grills
- —Heavy-duty ball bearing detachable casters
- —Four space rack

The unique symmetrical speaker mounting offers distinct advantages over a single front loaded enclosure. The problems encountered with single front loaded designs are low frequency response and power handling. With amplifiers such as the Ampeg SVT-II and SVT-III where it is standard to have a frequency response extending below 20Hz with outputs of almost 400 watts, a speaker must be able to move a great distance without excursion limit distortion. Unfortunately, a single 12" or 15" speaker of this type would be too expensive and too inefficient. With this problem at hand, the SVR-212/215 was born.

The SVR design incorporates two symmetrically loaded 12" (SVR-212) or 15" (SVR-215) low frequency drivers; one in front and the other in the rear of the cabinet. The initial advantage is increased power handling at extremely low frequencies simply from the addition if the second speaker which shares the power between the two. The two speakers share the same internal cabinet volume which improves the loading effect on each speaker allowing each to handle full power at lower frequencies without excursion limit distortion. Also, with the addition of the second speaker, low frequency response has been greatly improved. Since low frequencies inherently have a 360 degree dispersion pattern, the two speakers add as if both were front loaded, achieving a compact extended low frequency enclosure capable of handling 400 watts of input power at frequencies down to and below 20Hz without breaking up.



LIMITED DISPLACEMENT GRAPH OF TWO ENCLOSURES

Operation

To connect the SVR-212/215 to your system, simply plug the 1/4" phone plug pigtail from the jackplate into your amplifier and you are ready to go. The speaker pigtail and the 1/4" jack located on the jackplate are hard-wired in parallel to connect additional speakers, subject to the limitations of your amplifier.

Because a rear loaded speaker is used, there will always be some limitations in placement of the cabinet in a room. Minimally, 3 to 4 feet from a wall or corner is desired. Placing the cabinet too close to a wall or corner may alter the sound and create nulls and peaks in the frequency response.

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SPECIFICATIONS

	SVR-215	SVR-212
IMPEDANCE		
NOMINAL	6 ohms	6 ohms
MINIMUM	4 ohms	4 ohms
RMS POWER HANDLING	400 watts	400 watts
MAXIMUM PEAK POWER	800 watts	800 watts
FREQUENCY RESPONSE	65Hz - 20kHz	70Hz - 20kHz
USABLE LOW FREQUENCY (−10dB)	35Hz	40Hz
LOW FREQUENCY LIMIT (FULL POWER)	15Hz	20Hz
NOMINAL SENSITIVITY	99dB 1w/1m	98dB 1w/1m
MAXIMUM SPL	124dB	123dB
TRANSDUCER COMPLEMENT	2-15" Special Design low frequency drivers Bullet-Horn tweeter	2-12" Special Design low frequency drivers Bullet-Horn tweeter
CROSSOVER POINTS	150Hz (rear speaker) 4kHz (horn)	150Hz (rear speaker) 4kHz (horn)
CROSSOVER SLOPE	12dB/oct	12dB/oct
DIMENSIONS (HxWxD)	30.5" x 21" x 18.375"	23.25" x 21" x 18.375"
WEIGHT	100 lbs.	90 lbs.

WARNING: This speaker is not designed to be suspended off the floor from cables or in any other manner. If suspension is desired, consult a registered professional engineer.

CAUTION: This speaker enclosure should be used with caution as the SVR-212/215 is capable of producing high sound pressure levels. Continued exposure to such high sound pressure levels can cause permanent hearing impairment or loss. Use of ear protection is advised.

Ampeg is a product of SLM Electronics
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