
RAMPAGETM

**HIGH PERFORMANCE
SUBWOOFERS
MODELS AVW100 and AVW120**

OWNER'S MANUAL



Congratulations on your purchase of the **Rampage** High Performance Subwoofer. The **Rampage** Subwoofers are designed to provide you with high quality Bass reproduction required to make your car audio system perform to its full potential.

RAMPAGE Subwoofer Features

- Single 4-Ohm voice coil for maximum flexibility and performance
- Double stacked magnet
- Chrome plated stamped steel basket
- 2-Inch Hi-Temp Kapton voice coil structure

SUBWOOFER PARAMETERS

| | AVW100 | AVW120 |
|-----------------------|---------------|---------------|
| Nominal Power Rating | 200 Wrms | 250 Wrms |
| Peak Power Rating | 400 W | 500 W |
| Double Stacked Magnet | 40 Oz | 50 Oz |
| Frequency Response | 40 Hz-1kHz | 40 Hz-1kHz |
| Resonant Frequency | 55 Hz ± 20% | 55 Hz ± 20% |
| Woofer Size | 10" | 12" |
| Nominal Impedance | 4 Ohms | 4 Ohms |
| Mounting Depth | 5.25" | 6.0" |

WARNING: High-powered car audio systems may produce sound pressure levels that exceed the threshold at which hearing loss may result. They may also impair a driver's ability to hear traffic sounds or emergency vehicles. Use common sense and practice safe listening habits when listening to your audio system.

INSTALLATION RECOMMENDATIONS

To realize the utmost in sound reproduction from your subwoofer(s), follow these installation recommendations:

- Use a quality large gauge wire to connect your subwoofer to the amplifier

- Use a subwoofer crossover to remove unwanted higher frequencies

- Position the enclosure in the rear of the vehicle with the subwoofer facing rearward to improve bass response and avoid cancellation of audio frequencies

ENCLOSURE CONSTRUCTION RECOMMENDATIONS

To enhance subwoofer performance, the following general recommendations should be addressed when constructing the speaker enclosure:

- Use 3/4" MDF for your construction material

- Glue all joint seams

- Screw or nail all joints tight

- Brace all walls

DESIGNING AND BUILDING YOUR SPEAKER ENCLOSURE

The following parameters are offered to assist you in designing your own enclosure. There are many computer software programs available on the market that, along with this information, will allow you to construct the type of enclosure that best suits your needs.

To obtain the best possible results, we suggest you use our recommended enclosure designs and have an automotive sound professional build your enclosure.

| Parameters | AVW100 | AVW120 |
|----------------------------|---------------|---------------|
| Fo (Hz) | 29.33 | 26.98 |
| Revc (Ohms) | 3.2 | 3.2 |
| Levc at 1kHz (mH) | 2.07 | 2.89 |
| Qms | 5.28 | 4.73 |
| Qes | 0.39 | 0.35 |
| Qts | 0.36 | 0.33 |
| Vas (Ltrs) | 72.59 | 117.72 |
| Spl @ 1W/1M (dB) | 88.58 | 90.07 |
| X-Max Linear pk-pk (mm) | 12 | 14 |

Recommended Enclosure Volumes

| | AVW100 | AVW120 |
|-------------------------|---------------|---------------|
| SEALED | | |
| Minimum sealed (Cu. Ft) | 0.5 | 0.75 |
| Maximum sealed (Cu. Ft) | 1.0 | 1.5 |
| PORTED | | |
| Vented (Cu. Ft) | 1.5 | 1.75 |
| Vented to (Hz) | 36 | 36 |
| Port Diameter (") | 3 | 4 |
| Port Length (") | 8 | 12 |
| Number of Ports | 1 | 1 |
| SQUARE PORT INFO | | |
| Port Area (Sq/In) | 7 | 12 |
| Port Length (") | 8 | 12 |

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