#### RECOMMENDED CONTINUOUS (RMS) POWER RANGE FOR ONE SUBWOOFER DRIVER:



JL Audio offers an extensive line of high-performance subwoofer drivers to fit a wide variety of enclosure and power applications. When designing systems with our drivers, it is very important to achieve a good power match between the subwoofer amplifier and the subwoofer driver's capabilities. The power levels listed in the above chart represent continuous (RMS) amplifier power per woofer and assume that the user will regularly make full use of that power without drastically overdriving the amplifier(s). Make sure you factor system impedance and the total number of subwoofers into your calculations. Adhering to these power recommendations will result in systems that are both reliable and enjoyable.

## JL AUDIO LIMITED WARRANTY (USA) Automotive Subwoofer Components

JL AUDIO warrants this speaker to be free of defects in materials and workmanship for a period of **one (1) year** from the original date of purchase, contingent upon installation being performed or approved by an authorized JL AUDIO dealer, in writing, on the original sales receipt. **If the preceding condition is not met, the warranty term is limited to ninety (90) days from the original purchase date.** 

This warranty is not transferrable and applies only to the original purchaser of the product from an authorized JL AUDIO dealer. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, JL AUDIO will, at its discretion, repair or replace the defective product with new or remanufactured product at no charge.

Damage caused by the following is not covered under warranty: accident, misuse, abuse, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

Any applicable implied warranties are limited in duration to the period of the express warranty as provided herein beginning with the date of the original purchase at retail, and no warranties, whether express or implied, shall apply to this product thereafter. Some states do not allow limitations on implied warranties, therefore these exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

## If you need service on your JL AUDIO product:

All warranty returns should be sent to JL AUDIO freight prepaid through an authorized JL AUDIO dealer and must be accompanied by proof of purchase (a copy of the original sales receipt.) Direct returns from consumers or non-authorized dealers will be refused unless specifically authorized by JL AUDIO with a valid return authorization number. Warranty expiration on products returned without proof of purchase will be determined from the manufacturing date code. Coverage may be invalidated as this date is previous to purchase date. Return only defective components. Non-defective items received will be returned freight-collect. Customer is responsible for shipping charges and insurance in sending the product to JL AUDIO. Freight damage on returns is not covered under warranty. Always include proof of purchase (sales receipt).

For Service Information in the U.S.A. please call: JL Audio customer service: (954) 443-1100 during normal business hours (Eastern Time) JL Audio, Inc

10369 North Commerce Parkway, Miramar, FL 33025

## International Warranties:

Products purchased outside the United States of America are covered only by that country's distributor and not by JL Audio, Inc.



# owner's manual

Congratulations on your purchase of a JL Audio subwoofer component. Your JL Audio subwoofer is a precision loudspeaker which has been engineered to produce the highest quality sub-bass performance in your vehicle. Authorized JL Audio dealers have extensive technical information for many different applications of your new speaker. They also have the knowledge, skills and tools to build a high-quality enclosure that will maximize the performance of your speaker. We highly recommend that you have your enclosure built by an authorized JL Audio dealer.

Inside you will find specifications and two recommended enclosures for your speaker; one is a sealed enclosure, the other is a ported design. Both types of enclosures will give you excellent sound quality and low-frequency extension. The sealed enclosure is a better choice if space is extremely tight, but the ported enclosure will produce 3dB more output at the same power if you have the extra space to work with.

If you decide to build one of these enclosures yourself, you must have the construction of the box inspected and approved by your authorized JL Audio dealer in order for the 1 year limited warranty to be valid. Please read the warranty information carefully.



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JL8-10W3-02-2003

#### SUBWOOFER SPECIFICATIONS

SUBWOOFER:	8W3-D2	8W3-D4	8W3-D6	10W3-D2	10W3-D4	10W3-D6
Free Air Resonance (Fs):	34.3 Hz	35.3Hz	35.1 Hz	28.8 Hz	29.7 Hz	30.8 Hz
Electrical "Q" (Qes):	0.428	0.516	0.508	0.503	0.546	0.563
Mechanical "Q" (Qms):	6.850	6.850	6.850	8.260	8.260	8.260
Total Speaker "Q" (Qts):	0.403	0.480	0.473	0.474	0.512	0.527
Equiv. Compliance (Vas):	0.79 ft <sup>3</sup>	0.79 ft <sup>3</sup>	0.79 ft <sup>3</sup>	1.66 ft <sup>3</sup>	I.66 ft³	1.66 ft <sup>3</sup>
	22.4 litres	22.4 litres	22.4 litres	38.6 litres	38.6 litres	38.6 litres
One-way, Linear Excursion:	0.39 in	0.39 in	0.42 in	0.549 in	0.579 in	0.513 in
(Xmax)*	9.9 mm	9.9 mm	10.7 mm	13.9 mm	14.7 mm	13.0 mm
Efficiency (IW/Im)**:	85.0 dB	84.6 dB	84.6 dB	85.3 dB	85.3 dB	85.6 dB
Effective Piston Area (Sd):	33.2 in <sup>2</sup>	33.2 in <sup>2</sup>	33.2 in²	53.5 in <sup>2</sup>	53.5 in <sup>2</sup>	53.5 in <sup>2</sup>
	0.0214 m <sup>2</sup>	0.0214 m <sup>2</sup>	0.0214 m <sup>2</sup>	0.0345 m <sup>2</sup>	0.0345 m <sup>2</sup>	0.0345 m <sup>2</sup>
DC Resistance (Re)***:	3.39 <b>Ω</b>	$6.56\Omega$	10.78 <b>Ω</b>	3.30Ω	6.82 <b>Ω</b>	10.98Ω
Nominal Impedance:	Dual 2 $\Omega$	Dual 4 $\Omega$	Dual 6 $\Omega$	Dual 2 $\Omega$	Dual 4 $\Omega$	Dual 6 $\Omega$
Power Handling (continuous):	125W	125W	125W	250	250W	250W
Mounting Depth:	4.25 in	4.25 in	4.25 in	5.8125 in	5.8125 in	5.8125 in
	108 mm	108 mm	108 mm	148 mm	148 mm	148 mm
Mounting Hole Diameter:	7.0 in	7.0 in	7.0 in	9.125 in	9.125 in	9.125 in
	178 mm	I78 mm	178 mm	232 mm	232 mm	232 mm
Driver Displacement:	0.035 ft <sup>3</sup>	0.035 ft <sup>3</sup>	0.035 ft <sup>3</sup>	0.050 ft <sup>3</sup>	0.050 ft <sup>3</sup>	0.050 ft <sup>3</sup>
	1.0 litres	1.0 litres	1.0 litres	1.4 litres	1.4 litres	1.4 litres

\*Xmax specifications are derived via one-way voice coil overhang method with no correction factors applied.

\*\*Efficiency (IW/Im) is not an accurate indicator of a subwoofer's output capability and should not be used as a comparison to other subwoofers to determine which one is "louder".

\*\*\*Re (DC resistance) is measured with the voice coils in series, for parallel-wired specification divide Re by 4. All other specifications remain the same.



## **RECOMMENDED ENCLOSURES**

(net int.) (Width × Height × Depth) (net int.) (Width × Height × Depth)   8W3-D2 0.330 ft <sup>3</sup> 16" × 9" × 7.25" 0.75 ft <sup>3</sup> 15" × 10"   9.35 litres 406mm × 229mm × 184mm 21.2 litres 381mm × 254	Dimensions Port   eight × Depth) (Inside Dia. × Length)   " × 13.75" 2.5" × 12.7"
8W3-D2 0.330 ft <sup>3</sup> 16" × 9" × 7.25" 0.75 ft <sup>3</sup> 15" × 10"   9.35 litres 406mm × 229mm × 184mm 21.2 litres 381mm × 254	0 1/ \
8W3-D2 9.35 litres 406mm x 229mm x 184mm 21.2 litres 381mm x 254	" × 13.75" 2.5" × 12.7"
9.35 litres 406mm x 229mm x 184mm 21.2 litres 381mm x 254	
	1mm x 349mm 64mm x 323mm
<b>8W3-D4</b> 0.375 ft <sup>3</sup> 16" × 9" × 8" 0.75 ft <sup>3</sup> 15" × 10"	" × 13.75" 2.5" × 11.9"
	1mm x 349mm 64mm x 302mm
<b>8W3-D6</b> 0.375 ft <sup>3</sup> 16" × 9" × 8" 0.75 ft <sup>3</sup> 15" × 10"	" × 13.75" 2.5" × 12.1"
	1mm x 349mm 64mm x 307mm
0.625 ft <sup>3</sup> 18" × 11" × 9" 1.00 ft <sup>3</sup> 16" × 11	I" × I5.5" 3.0" × I4.5"
17.7 litres 457mm x 279mm x 229mm 28.3 litres 406mm x 279	9mm x 394mm 76mm x 368mm
0.625 ft <sup>3</sup> 18" × 11" × 9" 1.125 ft <sup>3</sup> 16" × 1	" × 17" 3.0" × 12.8"
17.7 litres 457mm × 279mm × 229mm 31.9 litres 406mm × 279	9mm x 432mm 76mm x 325mm
0.75 ft <sup>3</sup> 18" × 11" × 10.5" 1.25 ft <sup>3</sup> 16" × 11	" ×   8.5" 3.0" ×    .3"
21.2 litres 457mm × 279mm × 267mm 35.4 litres 406mm × 279	76mm x 470mm 76mm x 287mm

L CAUTION Prolonged exposure to sound pressure levels in excess of 100dB can cause permanent hearing loss. This high-performance speaker can exceed this level. Please exercise restraint in its operation in order to preserve your ability to enjoy its fidelity When installing a subwoofer n your vehicle, it is extremely important to secure the enclosure firmly. We recommend bolting the enclosure through the metal of the floorpan or the frame of the vehicle with large diameter washers for reinforcement. If an enclosure is not firmly attached, it can become a projectile in a collision. This is particularly important in a hatchback, station wagon, sports

utility vehicle, or van.

• The enclosure recommendations listed above are **external** dimensions which assume the use of 3/4" (19mm) thick material. If you are using 5/8" (16mm) thick material, subtract 1/4" (6.5mm) from each dimension. Do not use any material with a thickness of less than 5/8" (16mm) as this may compromise the rigidity of the enclosure.

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• All enclosure volumes listed above are net internal volumes! Driver displacement, port

displacement and brace displacement must be added to obtain the final gross internal volume. All enclosure dimensions above have already taken this into acount.

• When using **two** subwoofers in a common enclosure simply **double** the required volume and, in the case of a ported enclosure, use two times the recommended port(s). Likewise, when using three subwoofers in a common enclosure simply triple the required volume and, in the case of a ported enclosure, use three times the recommended port(s).

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• We recommend the use of this speaker in a bi-amplified system using high-quality satellite speakers and a high-quality amplifier. We do not recommend the use of this subwoofer with a **passive crossover** (coil), as this type of device will adversely affect performance.

All specifications are subject to change without notice.