



8IB4 10IB4 12IB4 Subwoofers

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 about your new speaker.

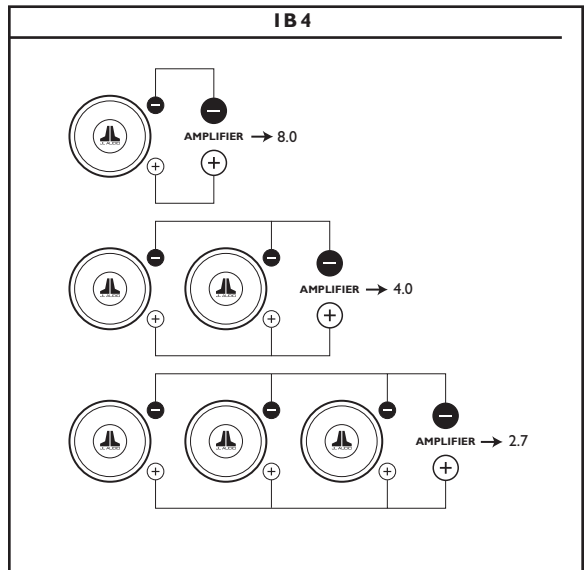


SUBWOOFER SPECIFICATIONS

| SUBWOOFER: | 81B4 | 101B4 | 121B4 |
|------------------------------|-----------------------|-----------------------|-----------------------|
| Free Air Resonance (Fs): | 37.5 Hz | 37.5 Hz | 40.5 Hz |
| Electrical "Q" (Qes): | 0.744 | 0.837 | 0.673 |
| Mechanical "Q" (Qms): | 8.484 | 9.400 | 10.967 |
| Total Speaker "Q" (Qts): | 0.684 | 0.769 | 0.634 |
| Equiv. Compliance (Vas): | 1.80 ft ³ | 2.93 ft ³ | 3.97 ft ³ |
| | 51.0 litres | 83.0 litres | 112.4 litres |
| One-way, Linear Excursion: | 0.34 in | 0.30 in | 0.29 in |
| (Xmax)* | 8.6 mm | 7.6 mm | 7.3 mm |
| Efficiency (1W/1m)**: | 87.4 dB | 89.0 dB | 92.2 dB |
| Effective Piston Area (Sd): | 30.7 in ² | 51.8 in ² | 78.5 in ² |
| | 0.0198 m ² | 0.0334 m ² | 0.0506 m ² |
| DC Resistance (Re): | 6.10Ω | 7.20Ω | 6.07Ω |
| Nominal Impedance: | 8Ω | 8Ω | 8Ω |
| Power Handling (continuous): | 75W | 100W | 125W |
| Mounting Depth: | 3.875 in | 5.2 in | 5.5 in |
| | 98 mm | 132 mm | 140 mm |
| Mounting Hole Diameter: | 7.0 in | 9.125 in | 11.0625 in |
| | 178 mm | 232 mm | 281 mm |
| Driver Displacement: | 0.03 ft ³ | 0.05 ft ³ | 0.06 ft ³ |
| | 0.792 litres | 1.414 litres | 1.696 litres |

*Xmax specifications are derived via one-way voice coil overhang method with no correction factors applied. **Efficiency (1W/1m) 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".

WIRING OPTIONS



IMPORTANT



This woofer is specifically designed for infinite baffle installation. It may be used in a large sealed enclosure of at least 8 cubic feet if necessary. This woofer is not well suited for ported or bandpass applications.

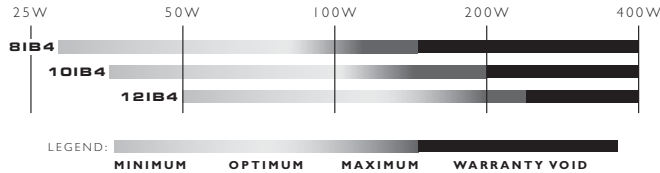


CAUTION



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.

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



MEDIUM GRAY (MINIMUM):

From a reliability standpoint, this zone represents a very comfortable operating power range for each driver. This level of power will not stress the woofer but will not extract all of its performance potential, either.

Use of less than the minimum power level will not damage the woofer, but may result in unsatisfactory performance.

LIGHT GRAY (OPTIMUM):

This zone represents the best compromise between long-term reliability, high-output and low-distortion performance and is centered on each woofer's continuous power rating (as published in its specifications). In this zone, you will be taking full advantage of the woofer's optimum, low-distortion performance range without undue risk of failure.

DARK GRAY (MAXIMUM):

In this zone, low-distortion output and long-term reliability will be compromised (especially by an aggressive user). Slightly more SPL will be gained by pushing the power into this zone, but typically not more than 2dB, compared to the light gray zone. The closer you are to the black zone, the higher the likelihood of driver failure. Operate with caution.

BLACK (WARRANTY VOID):

We do not recommend operating woofers at this level of power. In this zone, there is a very high probability that the driver will fail due to excessive heat and/or mechanical stress.

Subwoofer drivers operated at these levels of power are NOT covered under warranty.

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.

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.

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