D E C A D E ™

DS105, DS125

GENUINE JBL

Thank you for purchasing a new JBL Decade™ Series subwoofer. Subwoofer installation often requires woodworking skills and some experience disassembling and reassembling automotive interiors. If you lack the tools or skills necessary, have your subwoofer installed by an authorized JBLdealer.

Warning: Playing loud music in an automobile can permanently damage your hearing as well as hinder your ability to hear traffic. We recommend listening at low levels while in your car. JBL accepts no liability for hearing loss, bodily injury or property damage resulting from use or misuse of this product.

Choosing an Enclosure

Decade Series subwoofers are optimized to perform best in small sealed, vented and prefabricated bandpass enclosures. While infinite-baffle mounting of Decade Series subs is possible, power handling will be greatly compromised since there will be no enclosed volume of air to prevent the speaker's cone from mounting past its limit. For this reason, we do *not* recommend infinite-baffle mounting for Decade Series subwoofers.

You should choose the enclosure you will use based on the type of music you listen to, how much amplifier power you will use for the subwoofer, and how much space inside the vehicle you can devote to a subwoofer enclosure.

Because a sealed enclosure provides the most control over the woofer's movement, a woofer mounted in a sealed enclosure will handle more power than a woofer mounted in a different kind of enclosure. Sealed enclosures provide more accurate sonic reproduction than other enclosure types, so they are well-suited to all types of music. Sealed enclosure construction is straightforward, and there are many prefabricated sealed enclosures available. An optimum sealed enclosure is always smaller than other types of enclosures optimized for a particular speaker, so they require the smallest amount of space inside the vehicle.

Vented enclosures provide better efficiency in the 40Hz – 50Hz range, but this efficiency comes at the expense of sound in the lowest octave (below 40Hz) and at the expense of some control and power handling. If you are using a small amplifier, a vented box will provide more bass output from less power. Vented enclosures are also well-suited to a variety of music types. Because vented enclosures require the volume of the enclosure and the size of the port to have a specific relationship with the characteristics of the woofer, the enclosure must be built exactly to the specifications provided. While there are some prefabricated vented boxes available, matching a prefabricated vented box to a particular woofer is difficult. If you wish to use a vented enclosure, we strongly recommend having your authorized JBL dealer build it, or verify that your design is correct if you wish to build it yourself. An optimum vented enclosure is always larger than the optimum sealed box for the same woofer, and will require more space inside the vehicle.

Bandpass enclosures often provide the greatest output available from any amplifier and subwoofer combination at the expense of sonic accuracy. If sheer SPL (sound-pressure level) is what you desire most, choose a bandpass enclosure. Bandpass enclosure design is very tricky and the aid of a computer and enclosure-design software is essential. If you are an experienced installer or have some woodworking experience, you may wish to build the enclosure described in the *Specifications* chart in this manual. Fortunately, there are many prefabricated bandpass boxes available, and they are all optimized to extract the greatest output possible from any woofer. Bandpass enclosures can be quite large, and may require a lot of space inside your vehicle.

Specifications
DS105, DS125

Specifications	DS105	DS125
Recommended Amplifier Power Range:	18 – 175W	18 – 225W
Sensitivity:	92dB	93dB
Frequency Response:	38Hz – 800Hz	38Hz – 500Hz
Mounting Depth:	4-9/16" (116mm)	5" (127mm)
Cut-Out Diameter:	9" (229mm)	10-7/8" (277mm)
Thiele and Small Parameters		
Nominal Impedance:	4 ohms	4 ohms
Revc:	3.52 ohms	3.45 ohms
Fs:	29.5Hz	27.4Hz
Vas:	71 liters	109 liters
Qms:	4.39	3.18
Qes:	0.29	0.37
Qts:	0.268	0.33
Mms:	74.99g	109.23g
Levc:	2.02mH	2.23mH
Sealed-Enclosure Specifications		
Enclosure Volume:	1 cu. ft. (28.31 liters)	1.25 cu. ft. (35.88 liters)
Vented-Enclosure Specifications		
Enclosure Volume:	1.5 cu. ft. (42.46 liters)	1.75 cu. ft. (49.54 liters)
Port Diameter:	3" (76.2mm)	4" (101.6mm)
Port Length:	7"(177.8mm)	10-3/4" (273mm)
Bass-Enclosure Specifications		
Sealed-Chamber Volume:	1 cu. ft. (28.31 liters)	1.25 cu. ft. (35.88 liters)
Vented-Chamber Volume:	.7 cu. ft. (19.82 liters)	1 cu. ft. (28.31 liters)
Port Diameter:	4" (101.6mm)	4" (101.6mm)
Port Length:	8" (203.2mm)	6" (152.4mm)

JBLConsumer Products
250 Crossways Park Drive
Woodbury, NY 11797
www.jbl.com

A Harman International Company

Part No. DS105/125OM

Made in China