

Choosing an Enclosure

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

You should choose an enclosure 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 woofer movement, a woofer mounted in a sealed enclosure will handle more power than a woofer mounted in another enclosure type. Sealed enclosures also 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 it requires the least 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 to the characteristics of the woofer, they must be built exactly to the specifications provided. While there are some prefabricated vented boxes available, matching a prefabricated 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 at least 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/subwoofer combination, albeit at the expense of sonic accuracy. If sheer SPL (sound pressure level) is what you desire most, choose a bandpass enclosure. Because bandpass-enclosure design is tricky, using a computer and enclosure-design software is necessary. If you are an experienced installer or have some woodworking skill, you may wish to build the enclosure described in the "Specifications" chart in this manual. Fortunately, however, there are many prefabricated bandpass boxes available and they are all optimized to extract the greatest possible output from any woofer. Be aware that bandpass enclosures can be quite large and may require a lot of space inside your vehicle.

Thank you for purchasing a JBL Loud + Clear subwoofer. Subwoofer installation often requires woodworking skills and some experience disassembling and reassembling automotive interiors. If you lack the necessary tools or know-how, have your subwoofer installed by an authorized JBL dealer.

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 driving. JBL accepts no liability for hearing loss, bodily injury or property damage resulting from use or misuse of this product.

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LC-S1050W

LC-S1250W

Specifications	LC-S1050W	LC-S1250W
Power Handling	100W RMS, 400W peak	120W RMS, 480W peak
Sensitivity (2.83V, 1m)	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)
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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)

Bandpass-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)



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