

# Best Subwoofer Box Design for Deep Bass

By **SpeakerMasters**



## Table of Contents



- Sealed Box Enclosures: For Deep, Accurate Bass
- Ported Box: For Deep and Forceful Bass
- Bandpass Boxes: For Super Efficiency and Maximum Slam
- Best Subwoofer Boxes On Amazon
- Free-Air Subwoofers
- T-Line Subwoofer Boxes
- Tuning Your Subwoofer Box
- Best Subwoofer Boxes
- 8 Inch Subwoofer Enclosure
- 10 Inch Subwoofer Enclosure
- 12 Inch Subwoofer Enclosures
- 15 Inch Subwoofer Enclosure
- Why Subwoofer Box Design Is Important
  - Sealed vs Ported
- Subwoofer Box Isolation
- Conclusion

As an Amazon Associate, we earn from qualifying purchases made on our website. If you make a purchase through links from this website, we may get a small share of the sale from Amazon and other affiliate programs. You can read our complete affiliate disclosure/TOS for more details.

When building a powerful sound system, it's normal for most people to get the **best woofer** to enjoy an envious bass.

However, the amount of bass that the subwoofer component can yield does not solely depend on the woofer.

You will need a robust, tightly-constructed enclosure to maximize the performance of the subwoofer and provide the utmost power.

Let's Explain:

While any speaker will give out a certain amount of sound, speakers without a well-constructed enclosure can't deliver an admirable bass.

That's because the sound coming from the backside of the speaker will cancel out the low-frequency signals emanating from the front.

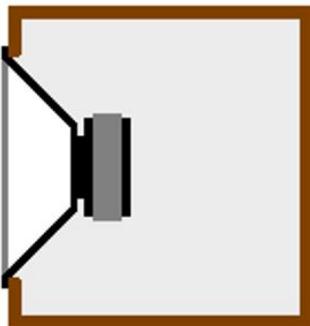
Moreover, a properly-designed subwoofer box will improve the sound quality and protect the sound drivers from damage.

Here are different types of subwoofer box designs:

## • **Sealed Box Enclosures: For Deep, Accurate Bass**

A sealed enclosure is a compact, airtight box housing your subwoofer. It is surely one of the best subwoofer box design for deep bass.

It works best with any music that requires tight and precise bass.



You can expect excellent power handling, flat response, and a deep bass extension, but not excessively boomy.

It's important to use an amplifier that has enough power wattage for maximum performance since this enclosure demands more power than a ported box. However, you can take other steps to **make your sealed subwoofer box or speaker box louder**. Check out our article on **how to make a sealed speaker or subwoofer box louder** to learn more.

If you are looking for a good sealed box enclosure, here is a well built, yet simple option: **Bbox E12ST Single 12" Sealed Carpeted Truck Subwoofer Enclosure**



SALE!!



1,693 Reviews

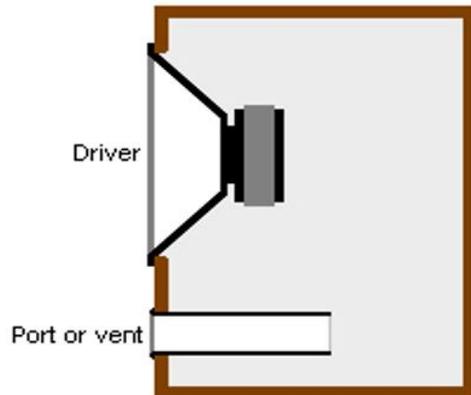
### **Bbox E12SVPro-Series 12" Single Vented Subwoofer...**

- Pro Tuned 12" Single Vented subwoofer enclosure designed for optimum bass response and low frequency...
- CNC Miter and Dado design and construction for the ultimate in air tight precision fit of all parts which...
- Specially Formulated Aliphatic Wood Glue to ensure an airtight seal between all MDF parts with a second...

[Check on Amazon](#)

## • Ported Box: For Deep and Forceful Bass

With a vent (port) to reinforce low bass frequencies, ported boxes will give you more output compared to a sealed box.



For most people, this design works well with the sound of heavy metal, rock, and any hard-driving music.

These ported boxes are especially great if you are looking for a subwoofer box design for 12 inch subwoofers.

These boxes deliver heart-thumping bass, but they need a much bigger space than sealed enclosures.

If a ported box enclosure suits your needs, here is a good option: [BBox E12SV Single 12" Vented Carpeted Subwoofer Enclosure](#).



SALE!!



1,693 Reviews

### **Bbox E12SVPro-Series 12" Single Vented Subwoofer...**

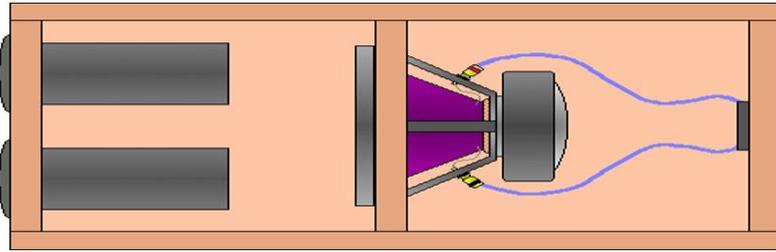
- Pro Tuned 12" Single Vented subwoofer enclosure designed for optimum bass response and low frequency...
- CNC Miter and Dado design and construction for the ultimate in air tight precision fit of all parts which...
- Specially Formulated Aliphatic Wood Glue to ensure an airtight seal between all MDF parts with a second...

[Check on Amazon](#)

## • **Bandpass Boxes: For Super Efficiency and Maximum Slam**

A **bandpass box or bandpass enclosure** features a special ported box design for an optimum slam. It's basically a dual-chambered box (with one ported chamber and the other sealed) that allows the sound waves to emerge from the ported side.

The sound from the ported side is extra-loud and clear within a narrow frequency range.



Since **bandpass boxes** are highly efficient within a narrow frequency range, they tend to deliver deep bass with a boom.

Their strong sound is great for various music genres like hard rock, rap, and reggae. However, not all woofers are compatible with **bandpass boxes**.

A great bandpass choice is the **PYLE PLQB10 10-Inch 500 Watt Bandpass**.





160 Reviews

### Bandpass Enclosure Car Subwoofer Speaker - 500...

- 700 WATT POWER: This high powered audio projection subwoofer system has a maximum power output of 500-watt...
- 10" SUBWOOFER: This band pass automotive speaker enclosure system is equipped with a 10" high power 4 ohm...
- 2" ALUMINUM VOICE COIL: this car speaker has 2" high-temperature aluminum voice coil and 4-ohm impedance...

 [Check on Amazon](#)

## Best Subwoofer Boxes On Amazon

1



### Car Audio Single 12" Vented Subwoofer Stereo Sub...

 [Check on Amazon](#)

2



Skar Audio Dual 10" Complete 2,400 Watt SDR Series...

 [Check on Amazon](#)

3



KICKER 12" 3000W Dual Loaded Solo-Baric L7S...

 [Check on Amazon](#)

4



Q Power QBOMB12V Dual 12-Inch Vented Speaker Box...

 [Check on Amazon](#)

5



Skar Audio Dual 12" Complete 2,400 Watt SDR Series...

[Check on Amazon](#)

6



Kicker 48TCWRT122 COMPRT12 12" 1000w Slim...

[Check on Amazon](#)

## • Free-Air Subwoofers

Free-air subwoofers are mainly built to give you a deep bass with your **car's stereo**. The woofers are mounted to a board on the rear deck or placed against the rear seat in your car trunk.

That means that the trunk acts as the enclosure housing the subwoofer and isolates the sound emanating from the backside.

The trunk **solves the sound cancellation issue that subwoofers** without an enclosure have.



Unlike other types of subwoofer box designs, free-air systems save space without sacrificing the bass response.

This type of subwoofer system is more convenient due to the lack of a box, but it has a lower power handling capability compared to their boxed counterparts.

Furthermore, the woofer should be designed for free-air systems.

---

## • T-Line Subwoofer Boxes

T-Line subwoofer boxes make use of an acoustic transmission line design within the cabinet enclosure.

With this design, sound waves emit from behind the driver and disperse into a maze of materials that increase the bass response of the system by looking at great control of energy within the enclosure. To learn more, you can find out about the [uses and advantages of a T-Line subwoofer box](#).

## Tuning Your Subwoofer Box

When it comes to subwoofer box design, it is very important that your subwoofer box is tuned properly. Please check out our article on [how to tune a subwoofer box](#) to learn more.

## Best Subwoofer Boxes

Maybe you can't be bothered with designing a subwoofer box and simply choose to buy one instead. Below we feature the best subwoofer boxes of different sizes:



## 8 Inch Subwoofer Enclosure

8-inch subwoofers are excellent for any small or medium cars. This is why 8 inch subwoofer boxes are so common.

Yet, you will find one of the best 8 inch subwoofer boxes to be the [ASC Dual 8" Subwoofer Universal Slot Vented Port Sub Box Speaker Enclosure](#).





127 Reviews

### Car Audio Single 8" SPL Bass Subwoofer Labyrinth...

- Dimensions: Width 12-1/2" x Height 10-1/2" x Depth 16-1/2"
- Mounting Depth: 11-1/4 Inches
- Air Space: 0.80 Cubic Feet

[Check on Amazon](#)

## 10 Inch Subwoofer Enclosure

10 inch subwoofer boxes are for medium-sized subwoofers. These are therefore a bit too large for tiny cars, but excellent for family vehicles.

An excellent 10 inch subwoofer box is the [BBox E10SV Single 10" Vented Carpeted Subwoofer Enclosure](#)



417 Reviews

### **BBox E10SV Single 10" Vented Carpeted Subwoofer...**

- Pro Tuned 10"Single Vented sub woofer enclosure designed for optimum bass response and low frequency...
- CNC Miter & Dado design and construction for the ultimate in air tight precision fit of all parts which ensures...
- Recessed Side Panels increases structural integrity,eliminates unwanted flex and vibration.

 [Check on Amazon](#)

## 12 Inch Subwoofer Enclosures

12 inch subwoofer boxes are on the larger side and are for larger subwoofers. They are therefore great for larger vehicles.

A good 12 inch subwoofer box is the **Bbox E12DSV Dual 12" Shared Vented Carpeted Subwoofer Enclosure**



531 Reviews

### **Atrend Bbox E12DSV Pro-Series 12" Dual Vented...**

- Pro Tuned 12" Dual Vented (shared air space) subwoofer enclosure designed for optimum bass response and low...
- CNC Miter & Dado design and construction for the ultimate in air tight precision fit of all parts which...
- Specially Formulated Aliphatic Wood Glue to ensure an airtight seal between all MDF parts with a second...

[🛒 Check on Amazon](#)

## 15 Inch Subwoofer Enclosure

Not clearly, at 15 inches, these boxes are for large subwoofers. before you purchase a 15 inch subwoofer, assess the space in your car first.

A great 15 inch subwoofer is the [Q Power QBOMB15VL SINGLE Single 15-Inch Side Vented Speaker Box](#).



119 Reviews

[Q Power QBOMB15VL SINGLE Single 15-Inch Side...](#)

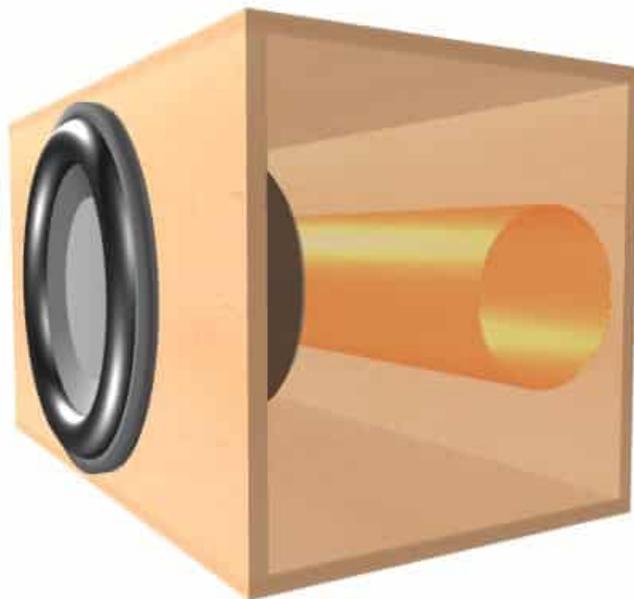
- Side Ported
- Durable Bed Liner Spray
- Screw Down DELUXE Terminal Cups

[Check on Amazon](#)

## Why Subwoofer Box Design Is Important

Ensuring you have a proper subwoofer box design is very important as it relates to the **phase crossover and frequency response of your subwoofer**.

This is because subwoofers produce sound both from the front and rear. If your subwoofer doesn't have an enclosure, the sound waves from the back and front of the sub would interfere and cancel out each other.



A proper subwoofer enclosure prevents this interference.

You should also keep in mind that when working with a speaker or subwoofer boxes and speakers, it is important to have all the necessary tools including a screw gun, a good quality circular saw, jigsaw, **speaker dust cap glue** and drill. You will also need clamps.

### Sealed vs Ported

A sealed vs ported box is also an important consideration that determines the quality of sound you will get from your system. Sealed vs ported boxes are

designed by way of what we call [acoustic suspension vs bass reflex designs](#).

## Subwoofer Box Isolation

If you plan on using your subwoofer in your home and not a car and if you plan on placing your subwoofer box on the floor, then you will need to isolate it. To do this, you can check out our guide on [how to isolate your subwoofer from the floor](#).

## Conclusion

There you have it, the best subwoofer box design for deep bass. Of course, using the proper box-building accessories, you can choose to construct your own subwoofer enclosure for deep bass.

However, you will need to be a talented craftsman with an in-depth understanding of enclosure volumes to pull off this task. That means you are better off buying a powerful speaker with a pre-made enclosure.