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## BOSS Audio Systems CH12DVC

# BOSS Audio Systems CH12DVC Chaos Series 12-Inch Car Subwoofer

Model: CH12DVC

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## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BOSS Audio Systems CH12DVC Chaos Series 12-inch car subwoofer. Please read this manual thoroughly before attempting installation or operation to ensure proper functionality and safety.



Figure 1: BOSS Audio Systems CH12DVC Chaos Series 12-Inch Car Subwoofer.

## 2. SAFETY INFORMATION

**WARNING:** This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

- Always ensure the vehicle's battery is disconnected before installation to prevent electrical shock or damage.
- Professional installation is strongly encouraged to ensure proper and safe functionality.
- Mount the subwoofer securely to prevent movement during vehicle operation.
- Avoid exposing the subwoofer to excessive moisture or extreme temperatures.

- Do not operate the subwoofer beyond its rated power limits to prevent damage.

## 3. PACKAGE CONTENTS

Your package should contain the following item:

- 1 x BOSS Audio Systems CH12DVC Chaos Series 12-Inch Car Subwoofer

## 4. KEY FEATURES

- **Rubber Surround:** Provides durability and flexibility for optimal cone excursion.
- **Polypropylene Cone:** Lightweight and rigid for accurate bass reproduction.
- **Stamped Steel Basket:** Offers a sturdy foundation for the subwoofer components.
- **Dual 4 Ohm Voice Coil:** Allows for flexible wiring configurations to match various amplifiers.
- **High Power Handling:** Max Power: 1800 Watts.
- **Push Terminals:** Facilitate easy and secure wire connections.



Polypropylene Cone



POLY INJECTION CONE

Rubber Surround



RUBBER SURROUND

Stamped Steel Basket



STAMPED BASKET

Hi-Temp Voice Coil

## 5. INSTALLATION

### 5.1 Mounting Dimensions

Ensure adequate space and proper enclosure type for optimal performance. The subwoofer is designed for versatile installation in various car audio systems.

- **Mounting Depth:** 6.02 inches
- **Mounting Hole Diameter:** 11 inches
- **Product Dimensions:** 13"D x 5.8"W x 13"H

- **Weight:** 9.83 Pounds

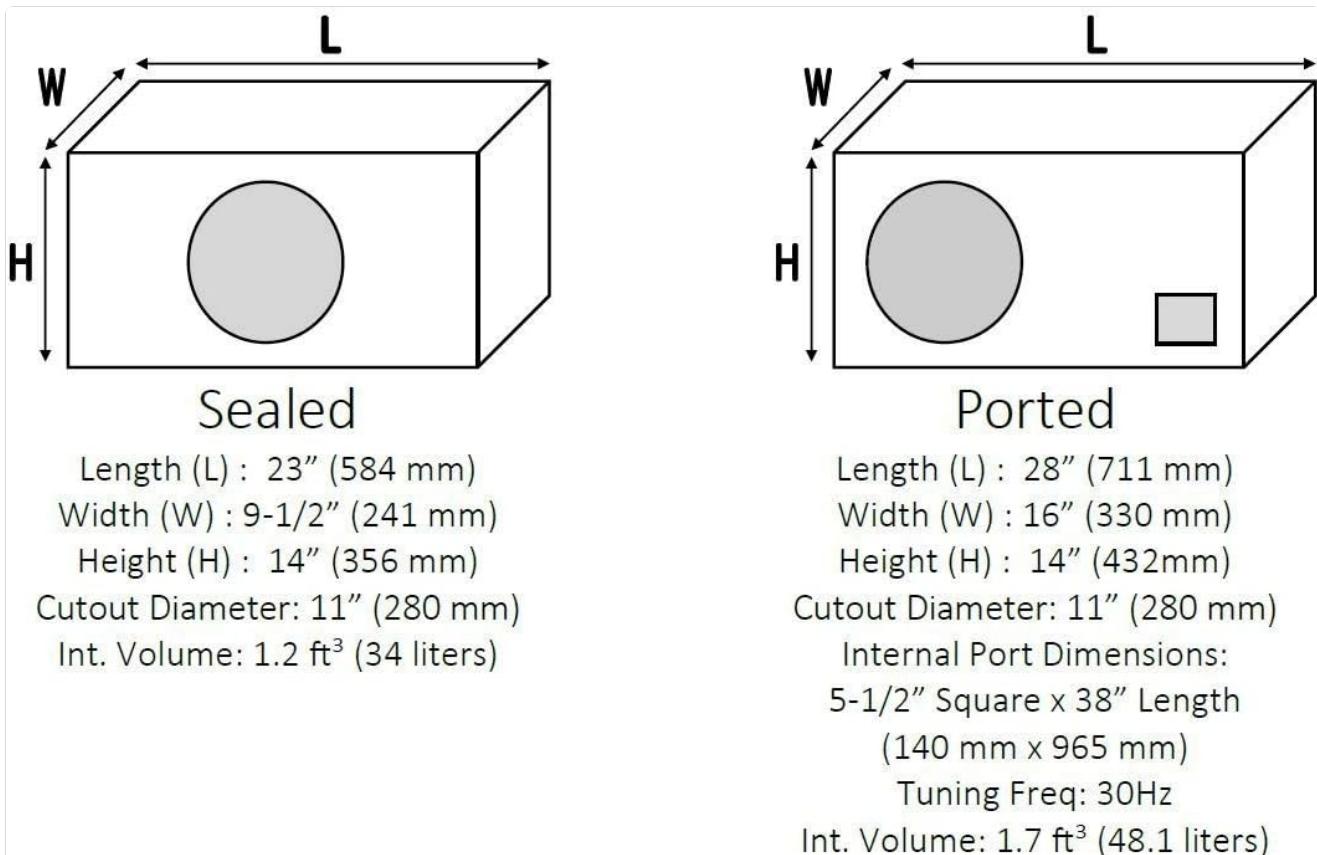


Figure 2: Subwoofer dimensions for installation planning.

## 5.2 Enclosure Recommendations

The CH12DVC subwoofer can be used in both sealed and ported enclosures. Refer to the diagram below for recommended enclosure dimensions and volumes.



Figure 3: Recommended dimensions for sealed and ported enclosures.

**Sealed Enclosure:** Length (L): 23" (584 mm), Width (W): 9-1/2" (241 mm), Height (H): 14" (356 mm), Cutout Diameter: 11" (280 mm), Internal Volume: 1.2 ft<sup>3</sup> (34 liters).

**Ported Enclosure:** Length (L): 28" (711 mm), Width (W): 16" (330 mm), Height (H): 14" (432 mm), Cutout Diameter: 11" (280 mm), Internal Port Dimensions: 5-1/2" Square x 38" Length (140 mm x 965 mm), Tuning Freq: 30Hz, Internal Volume: 1.7 ft<sup>3</sup> (48.1 liters).

## 5.3 Wiring Instructions

The CH12DVC features a Dual 4 Ohm Voice Coil, allowing for various wiring configurations. The most common configuration for a single DVC 4 Ohm subwoofer is parallel wiring to achieve a 2 Ohm load, which maximizes power output from compatible amplifiers.

Your browser does not support the video tag.

Video 1: Detailed guide on wiring a single Dual Voice Coil (DVC) 4 Ohm subwoofer for optimal performance. This video demonstrates the parallel wiring method to achieve a 2 Ohm load, which is commonly used to maximize power output from compatible mono-block amplifiers. It covers connecting the voice coils and then connecting the subwoofer to an amplifier, including checking impedance with a multimeter.

For parallel wiring of a single DVC 4 Ohm subwoofer:

1. Connect the positive terminal of Voice Coil 1 to the positive terminal of Voice Coil 2.
2. Connect the negative terminal of Voice Coil 1 to the negative terminal of Voice Coil 2.
3. Connect the combined positive terminals to the amplifier's positive output.
4. Connect the combined negative terminals to the amplifier's negative output.
5. This configuration will present a 2 Ohm load to your amplifier. Ensure your amplifier is stable at 2 Ohms.

## 6. OPERATING YOUR SUBWOOFER

Once properly installed and wired, connect your subwoofer to a compatible amplifier. Adjust the amplifier's gain, crossover, and bass boost settings according to your audio preferences and the subwoofer's capabilities. Start with low gain settings and gradually increase to avoid distortion and potential damage.

Allow for a "break-in" period by playing music at moderate volumes for several hours before operating at high power levels. This helps the subwoofer's suspension components to loosen up and perform optimally.

## 7. MAINTENANCE

- Regularly inspect the subwoofer for any signs of damage to the cone, surround, or terminals.
- Keep the subwoofer clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid placing heavy objects on the subwoofer or exposing it to direct sunlight for extended periods.
- Ensure all wiring connections remain secure to prevent intermittent performance or damage.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from subwoofer	Loose or incorrect wiring. Amplifier not powered on or in protect mode. Incorrect amplifier settings (gain too low, crossover set too high). Damaged subwoofer or amplifier.	Check all wiring connections for proper polarity and secure fit. Verify amplifier power and status indicators. Adjust amplifier settings appropriately. Test components individually to identify faulty unit.
Distorted or unclear bass	Amplifier gain set too high. Subwoofer overdriven. Incorrect enclosure size or type. Loose mounting.	Reduce amplifier gain. Lower volume levels. Ensure enclosure matches recommended specifications. Securely mount the subwoofer.
Subwoofer cone separation	Excessive power or prolonged high volume. Manufacturing defect.	Operate within rated power limits. Contact customer support for warranty claim if applicable.

## 9. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Brand	BOSS Audio Systems
Model Name	CH12DVC
Speaker Type	Subwoofer
Material	Metal
Subwoofer Diameter	12 Inches
Speaker Maximum Output Power	1800 Watts
Impedance	Dual 4 Ohms
Sensitivity (1 W/1 m)	86 Db
Resonant Frequency	35 Hz
Port Frequency	36 kHz
Mounting Depth	6.02 inches
Mounting Hole	11 inches
Product Dimensions	13"D x 5.8"W x 13"H
Item Weight	9.83 Pounds
Connectivity Technology	Wired (Coaxial)
Recommended Uses	For Music Players
Included Components	Subwoofer

## 10. WARRANTY & SUPPORT

BOSS Audio Systems provides a powerful **3-year platinum online dealer warranty** so long as the purchase is made through Amazon.com. For warranty claims or technical support, please contact BOSS Audio Systems customer service or visit their official website.

We strongly encourage professional installation of this product to ensure proper and safe functionality.