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› Deaf Bonce Machete 12" Subwoofer User Manual

Deaf Bonce ML-12R-D2

Deaf Bonce Machete 12" Subwoofer User Manual

Model: ML-12R-D2

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Deaf Bonce Machete 12" 500W RMS Dual 2-Ohm Voice Coil Subwoofer (Model: ML-12R-D2). Please read this manual thoroughly before using the product to ensure optimal performance and safety. This subwoofer is designed to deliver powerful and precise low-frequency audio, enhancing your car audio system or home theater experience.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product:

- **Power Handling:** Do not exceed the specified RMS (500W) or MAX (1000W) power ratings to prevent damage to the voice coil and speaker components.
- **Proper Wiring:** Ensure correct polarity and impedance matching when connecting the subwoofer to an amplifier. Incorrect wiring can lead to amplifier or subwoofer damage.
- **Ventilation:** Install the subwoofer in a location with adequate ventilation to prevent overheating, especially when enclosed.
- **Secure Mounting:** Always mount the subwoofer securely to prevent movement during operation, which could cause damage or injury.
- **Hearing Protection:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use caution when operating the subwoofer at high volumes.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified audio professional.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- (1) Deaf Bonce Machete 12" Subwoofer (Model: ML-12R-D2)



Image: The retail packaging box for the Deaf Bonce Machete 12-inch subwoofer, showing the brand logo and model name.

4. PRODUCT OVERVIEW

The Deaf Bonce Machete 12" subwoofer features a robust design for powerful bass reproduction. Key components include:

- **Cone:** Durable paper cone for accurate sound reproduction.
- **Surround:** Foam surround for optimal excursion and longevity.
- **Voice Coil:** Dual 2-Ohm voice coils (2" size) for flexible wiring configurations.
- **Magnet:** High-strength ferrite magnet for powerful motor structure.
- **Frame:** Sturdy steel frame for structural integrity.
- **Terminals:** Spring-loaded push terminals for secure wire connections.



Image: An angled view of the Deaf Bonce Machete 12-inch subwoofer, showcasing its cone, surround, and the "Machete" branding on the dust cap.



Image: A top-down view of the Deaf Bonce Machete 12-inch subwoofer, highlighting the cone and foam surround.



Image: The rear view of the Deaf Bonce Machete 12-inch subwoofer, showing the dual voice coil terminals and the magnet structure.

5. SETUP AND INSTALLATION

Proper installation is critical for optimal performance and longevity of your subwoofer. Consider professional installation if you are unfamiliar with car audio wiring.

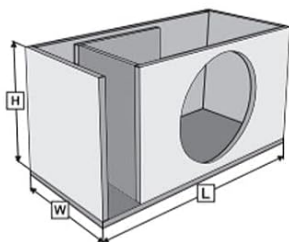
5.1 Enclosure Recommendations

The performance of your subwoofer is highly dependent on the enclosure. For best results, a bass reflex (ported) enclosure is recommended. The following parameters are suggested for the ML-12R-D2 model:

- **Recommended Volume:** 50 liters / 1.7 ft³
- **Port Area:** 150 cm² / 24 inch²
- **Port Length:** 62 cm / 24.4 inch
- **Tuning Frequency (Hz Setting):** 35 Hz

4. RECOMMENDED ENCLOSURE PARAMETERS

Bass reflex box



$$L \times W \times H = \text{body volume}$$

Parameters	ML-10R D2/D4	ML-12R D2/D4
The recommended volume, liters / ft ³	40 / 1.4	50 / 1.7
Port area, cm ² / inch ²	80 / 12.4	150 / 24
Port length, cm / inch	35 / 13.8	62 / 24.4
Hz setting	37	35

Image: A diagram illustrating recommended enclosure parameters for bass reflex boxes, including volume, port area, and port length for different subwoofer models.

5.2 Wiring Configurations (Dual 2-Ohm Voice Coils)

The dual 2-ohm voice coils offer flexibility in wiring to achieve different impedances. Always match the final impedance to your amplifier's stable operating range.

- **1-Ohm Load (Parallel Wiring):** Connect both voice coils in parallel. This configuration results in a 1-ohm load, suitable for amplifiers stable at 1 ohm.
- **4-Ohm Load (Series Wiring):** Connect both voice coils in series. This configuration results in a 4-ohm load, suitable for amplifiers stable at 4 ohms.

Note: Refer to your amplifier's manual for supported impedance loads. Incorrect impedance can damage your amplifier or subwoofer.

5.3 Mounting

The subwoofer has a mounting depth of 5.3 inches (136 mm) and a cut-out dimension of 10.9 inches (278 mm). Ensure the mounting surface is sturdy and provides adequate clearance for the subwoofer's magnet structure.

1. Carefully mark the cut-out area on your enclosure or mounting surface using the provided template or measurements.
2. Cut the opening precisely.
3. Position the subwoofer into the opening, aligning the mounting holes.
4. Secure the subwoofer using appropriate screws, ensuring even pressure around the mounting flange. Do not overtighten.

6. OPERATING INSTRUCTIONS

Once installed, follow these guidelines for operating your subwoofer:

- **Initial Power-Up:** After installation, turn on your audio system at a low volume. Gradually increase the volume and check for proper operation and sound quality.
- **Amplifier Gain Setting:** Set your amplifier's gain correctly to match the output voltage of your head unit. An improperly set gain can lead to distortion and damage.

- **Crossover Settings:** Use a low-pass filter (LPF) on your amplifier or head unit to send only low frequencies to the subwoofer. A typical LPF setting for subwoofers is between 60Hz and 100Hz.
- **Subsonic Filter:** If your amplifier has a subsonic filter, enable it and set it slightly below your enclosure's tuning frequency (e.g., 30Hz for a 35Hz tuned enclosure) to protect the subwoofer from over-excursion at very low frequencies.
- **Break-in Period:** Allow a break-in period of approximately 20-30 hours of normal listening before pushing the subwoofer to its limits. This allows the suspension components to loosen up and perform optimally.

7. MAINTENANCE

The Deaf Bonce Machete subwoofer requires minimal maintenance:

- **Cleaning:** Use a soft, dry cloth to wipe down the cone and surround. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically inspect the speaker terminals and wiring for secure connections and any signs of corrosion or damage.
- **Environment:** Ensure the subwoofer is not exposed to excessive moisture, direct sunlight, or extreme temperatures, which can degrade materials over time.

8. TROUBLESHOOTING

If you experience issues with your subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound from Subwoofer	No power to amplifier Loose or incorrect wiring Amplifier in protect mode Head unit settings (subwoofer output off)	Check amplifier power, ground, and remote turn-on connections. Verify all speaker and RCA connections are secure and correct. Check amplifier fuses. Disconnect power, wait, and reconnect. Ensure subwoofer output is enabled and volume is up on head unit.
Distorted Sound	Amplifier gain set too high Clipping from amplifier Incorrect crossover settings Damaged subwoofer	Reduce amplifier gain. Ensure amplifier is not clipping (check indicator light). Adjust LPF and subsonic filter settings. Inspect subwoofer cone and surround for physical damage.
Weak Bass Output	Incorrect wiring impedance Insufficient amplifier power Poor enclosure design	Verify voice coil wiring matches amplifier's optimal impedance. Ensure amplifier provides sufficient RMS power for the subwoofer. Check enclosure volume and port dimensions against recommendations.

9. SPECIFICATIONS

Detailed technical specifications for the Deaf Bonce Machete 12" Subwoofer (ML-12R-D2):

Parameter	Value
Model Name	ML-12R-D2
Speaker Type	Subwoofer
Subwoofer Diameter	12 Inches
RMS Power	500W
MAX Power	1000W
Impedance	Dual 2-Ohm
Voice Coil Size	2"
Cone Material	Paper
Surround Material	Foam
Magnet Type	Ferrite
Frame Material	Steel
Mounting Depth	5.3" (136 mm)
Cut-out Dimension	10.9" (278 mm)
Frequency Response (Fs)	38.0 Hz
SPL (Sensitivity)	88.0 dB
Xmax	0.47" (12.00 mm)
Vas	42.0 L
Qts	0.46
BL	16.60
Re (DC Resistance)	1.8 Ohm
Product Dimensions	12"D x 12"W x 1"H (Note: This seems to be package dimensions, actual product dimensions are usually different for subwoofers, but using provided data)
Item Weight	15 pounds
Manufacturer	Alphard Group

10. WARRANTY AND SUPPORT

This Deaf Bonce Machete subwoofer comes with **alimited warranty**. For specific terms and conditions of the warranty,

please refer to the warranty card included with your product or visit the official Deaf Bonce website.

For technical support, troubleshooting assistance, or warranty claims, please contact Deaf Bonce customer service or your authorized dealer. You can often find contact information on the manufacturer's website or through the retailer where you purchased the product.

Online Resources:

- Visit the [Deaf Bonce Store on Amazon](#) for more product information and updates.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question