

## Deaf Bonce AP-M61SE NEO

# Deaf Bonce Apocalypse AP-M61SE NEO 6.5-inch Mid-Range Speakers Instruction Manual

Model: AP-M61SE NEO

## INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Deaf Bonce Apocalypse AP-M61SE NEO 6.5-inch Mid-Range Speakers. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and safety. Retain this manual for future reference.

## PRODUCT OVERVIEW

The Deaf Bonce Apocalypse AP-M61SE NEO speakers are high-performance 6.5-inch mid-range speakers designed to deliver superior sound clarity and dynamic audio output in car audio systems. Featuring Neodymium magnets, these speakers offer exceptional efficiency and power handling.

### Key Features:

- **High-Power Performance:** 180W RMS and 360W max power handling for consistent and dynamic audio output.
- **Superior Mid-Range Clarity:** Optimized for frequencies between 100 Hz – 15,500 Hz, delivering crisp vocals and instruments.
- **Neodymium Magnet Design:** Lightweight yet powerful, providing exceptional efficiency and sound quality.
- **Enhanced Sensitivity:** SPL of 104.50 dB ensures loud, distortion-free audio.
- **4-Ohm Impedance:** Compatible with a wide range of car audio systems for seamless integration.



Image 1: A pair of Deaf Bonce Apocalypse AP-M61SE NEO 6.5-inch mid-range speakers, showcasing their design and size.

## SPECIFICATIONS

Feature	Specification
Model	AP-M61SE NEO
Type	Midrange
Size	6.5 inches
Frequency Response	100 Hz – 15,500 Hz
Package Quantity	Pair (2 speakers)
Voice Coil Size	1.25 inches
Cone Material	Paper
Magnet Type	Neodymium
Voice Coil Wire	CCAW
RMS Power Handling	180 W
Max Power Handling	360 W

Feature	Specification
Frame Material	Steel
Impedance	4 Ohm
Sensitivity (SPL)	104.50 dB
Resonance Frequency (Fs)	102.00 Hz
Qts	0.29
Vas	8.76 L
Mounting Depth	70.1 mm / 2.76 inches
Cut-out Dimension	154.26 mm / 6.07 inches
Item Weight	5.7 pounds (pair)
Package Dimensions	15.59 x 8.27 x 3.7 inches

## Safety Information

- Always disconnect the vehicle's battery before starting any electrical work to prevent short circuits and electrical shock.
- Ensure all wiring is properly insulated and secured to prevent damage from vibration or abrasion.
- Do not operate speakers beyond their rated power handling (RMS) to avoid damage.
- High sound pressure levels can cause permanent hearing damage. Use caution when adjusting volume.
- Consult a professional car audio installer if you are unsure about any installation steps.

## Installation and Setup

Proper installation is crucial for optimal performance and longevity of your speakers. It is highly recommended that installation be performed by a qualified professional car audio technician.

### Required Tools and Materials:

- Wire strippers/crimpers
- Screwdriver set
- Drill (with appropriate bit for mounting holes, if needed)
- Speaker wire (appropriate gauge for your system)
- Connectors (spade, ring terminals, etc.)
- Mounting hardware (screws, clips - typically included)
- Multimeter (for checking impedance and continuity)

### Installation Steps:

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of your vehicle's battery.

2. **Remove Existing Speakers:** Carefully remove the factory speakers from their mounting locations.
3. **Prepare Mounting Location:** Ensure the mounting surface is clean and free of obstructions. Verify that the cut-out dimension (154.26 mm / 6.07 inches) and mounting depth (70.1 mm / 2.76 inches) are suitable for the AP-M61SE NEO speakers.
4. **Wiring:** Connect the speaker wires to the terminals on the AP-M61SE NEO speakers. Ensure correct polarity (+ to + and - to -) from the amplifier or head unit. Incorrect polarity will result in poor sound quality and reduced bass response.
5. **Mount Speakers:** Securely mount the speakers into their designated locations using the provided mounting hardware. Do not overtighten screws.
6. **Reconnect Battery:** Once all speakers are installed and wired, reconnect the vehicle's battery.
7. **Test System:** Turn on your car audio system and test the speakers at a low volume. Gradually increase the volume to ensure proper operation and sound quality.



Image 2: Rear view of the AP-M61SE NEO speaker, highlighting the Neodymium magnet and wiring terminals.

### Wiring Considerations:

The AP-M61SE NEO speakers have a 4-Ohm impedance. Ensure your amplifier is stable at this impedance. When wiring multiple speakers, calculate the total impedance to match your amplifier's capabilities. For parallel wiring, the total impedance will decrease; for series wiring, it will increase.



Image 3: Contents of the speaker package, including the two speakers, mounting rings, and wiring accessories.

## OPERATING INSTRUCTIONS

Once installed, your Deaf Bonce Apocalypse AP-M61SE NEO speakers are ready for use. Follow these guidelines for optimal performance:

- **Initial Playback:** Begin playback at a low volume level.
- **Break-in Period:** Allow a break-in period of approximately 10-20 hours of normal listening before operating the speakers at high volumes. This allows the speaker's suspension components to loosen and perform optimally.
- **Volume Control:** Avoid excessive volume levels that cause audible distortion. Distortion indicates that the amplifier or speakers are being overdriven, which can lead to damage.
- **Crossover Settings:** If using an external amplifier with crossover settings, ensure they are properly configured to protect the mid-range speakers from frequencies outside their optimal range (100 Hz – 15,500 Hz). A high-pass filter (HPF) set around 100-120 Hz is generally recommended.

## MAINTENANCE

The Deaf Bonce Apocalypse AP-M61SE NEO speakers require minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Gently wipe the speaker cones and surrounds with a soft, dry cloth to remove dust. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically inspect the speaker surrounds and cone for any signs of damage or wear. Check

wiring connections for tightness and corrosion.

- **Environmental Factors:** Protect speakers from extreme temperatures, direct sunlight, and excessive moisture, which can degrade materials over time.

## TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound from speaker	Loose or disconnected wiring; incorrect polarity; amplifier not powered; damaged speaker.	Check all wiring connections for tightness and correct polarity. Ensure amplifier is on and receiving power. Test speaker with a known good source or replace if damaged.
Distorted sound	Volume too high; amplifier clipping; incorrect crossover settings; damaged speaker.	Reduce volume. Check amplifier gain settings to prevent clipping. Verify crossover settings are appropriate for mid-range speakers. Inspect speaker for physical damage.
Weak or no bass	Incorrect polarity; phase issues; high-pass filter set too high.	Check speaker wiring for correct polarity. Ensure all speakers are in phase. Adjust high-pass filter (HPF) to a lower frequency if necessary, or disable if full-range signal is desired (though not recommended for mid-range).
Intermittent sound	Loose connections; faulty wiring; amplifier protection mode.	Inspect all wiring for loose connections or frayed wires. Check amplifier status indicators for protection mode.

## WARRANTY AND SUPPORT

Deaf Bonce products are manufactured to high-quality standards and are covered by a limited warranty. Please refer to the warranty card included with your purchase or visit the official Deaf Bonce website for detailed warranty terms and conditions.

For technical support, installation assistance, or warranty claims, please contact your authorized Deaf Bonce dealer or the manufacturer's customer service department. Keep your purchase receipt as proof of purchase.

**Manufacturer:** Deaf Bonce

**Model:** AP-M61SE NEO

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