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Morel Maximo Ultra 602 COAX MKII

Morel Maximo Ultra 602 Coax MKII 6-1/2" 2-Way Coaxial Speakers User Manual

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Morel Maximo Ultra 602 Coax MKII 6-1/2" 2-Way Coaxial Speakers. These speakers are designed for easy integration into original factory locations, delivering dynamic sound with excellent off-axis dispersion, resolution, and crisp detail. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.

Safety Information

- Always disconnect the vehicle's battery negative terminal before beginning any electrical installation to prevent short circuits and damage.
- Ensure all wiring is properly insulated and secured to prevent damage from vibration or sharp edges.
- Avoid installing speakers in locations that obstruct vehicle operation or safety features.
- Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Operate your audio system at moderate levels.
- If you are unsure about any aspect of the installation, consult a qualified professional car audio installer.

Package Contents

Verify that all items are present in the package:

- Morel Maximo Ultra 602 Coax MKII 6-1/2" Coaxial Speakers (2 units)
- Speaker Grilles (2 units)
- Mounting Hardware (screws, clips, etc. - specific items may vary)
- User Manual (this document)

Specifications

Feature	Specification
Speaker Type	6-1/2" 2-Way Coaxial

Peak Power Handling	160 watts (each) / 320 watts (pair)
RMS Power Handling	90 watts (each) / 180 watts (pair)
Impedance	4 Ohm
Sensitivity	91 dB
Frequency Response	55Hz - 20,000 Hz
Mounting Depth	63mm (2.5")
Woofer Cone Material	Treated Paper Composite
Tweeter Type	1" Soft Dome
Crossover	Built-in MXR Crossover
Mounting Type	Flush Mount
Product Dimensions (each)	6.5"D x 6.5"W x 3"H
Item Weight (pair)	5.59 pounds

Setup and Installation

The Morel Maximo Ultra 602 Coax MKII speakers are designed for straightforward installation in most vehicle factory speaker locations. Adhere to the safety guidelines provided earlier.

1. **Preparation:** Disconnect the vehicle's battery. Remove existing speakers or trim panels to access the speaker mounting locations.
2. **Mounting:** Ensure the mounting location can accommodate the speaker's 63mm (2.5") mounting depth. Secure the speakers using the provided mounting hardware. The speakers are designed for flush mounting.
3. **Wiring:** Connect the speaker wires from your amplifier or head unit to the speaker terminals. Pay close attention to polarity (+ to + and - to -) to ensure proper phase and sound reproduction. The built-in MXR crossover manages the signal distribution to the woofer and tweeter.
4. **Testing:** Before reassembling all panels, reconnect the battery and briefly test the speakers to ensure they are functioning correctly.
5. **Final Assembly:** Once confirmed, reassemble all vehicle panels and secure the speaker grilles.



Image 1: Morel Maximo Ultra 602 Coax MKII speakers, showing one speaker with its protective grille and another without, highlighting the cone and tweeter assembly.



Image 2: An angled view of the Morel Maximo Ultra 602 Coax MKII speaker without its grille, providing a clear view of the treated paper composite cone and the 1-inch soft dome tweeter.

For detailed vehicle-specific installation instructions, consult your vehicle's service manual or a professional installer.

Operating Instructions

Once installed, your Morel Maximo Ultra 602 Coax MKII speakers will reproduce audio from your car's head unit or amplifier. Follow these general guidelines for optimal performance:

- **Source Unit Settings:** Adjust the bass, treble, and balance settings on your head unit or amplifier to achieve your preferred sound. Avoid excessive bass or treble boost, which can lead to distortion.
- **Amplifier Gain:** If using an external amplifier, set the gain correctly. Incorrect gain settings can lead to speaker

damage or poor sound quality. Consult your amplifier's manual for proper gain adjustment procedures.

- **Volume Control:** Gradually increase the volume to a comfortable listening level. If you hear any distortion, reduce the volume immediately.
- **Break-in Period:** New speakers may benefit from a break-in period of several hours of moderate listening. This allows the speaker components to loosen up and perform optimally.

Maintenance

Your Morel Maximo Ultra 602 Coax MKII speakers require minimal maintenance to ensure long-lasting performance:

- **Cleaning:** Use a soft, dry cloth to gently wipe away dust from the speaker grilles and surrounds. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check speaker connections for tightness and ensure no wires are frayed or exposed.
- **Environmental Factors:** Protect speakers from direct exposure to extreme temperatures, moisture, and direct sunlight, which can degrade materials over time.

Troubleshooting

Problem	Possible Cause	Solution
No sound from speakers	◦ Loose or disconnected wiring ◦ Incorrect polarity ◦ Amplifier/head unit issues	◦ Check all speaker wire connections at both the speaker and the amplifier/head unit. ◦ Verify correct positive (+) and negative (-) connections. ◦ Ensure amplifier/head unit is powered on and functioning.
Distorted or unclear sound	◦ Volume too high ◦ Incorrect amplifier gain settings ◦ Damaged speaker cone or voice coil ◦ Loose mounting	◦ Reduce volume. ◦ Adjust amplifier gain according to manufacturer recommendations. ◦ Inspect speakers for physical damage. ◦ Ensure speakers are securely mounted.
One speaker not working	◦ Faulty wiring to that speaker ◦ Speaker damage ◦ Balance setting on head unit	◦ Check wiring for the non-working speaker. ◦ Swap speakers (if possible) to determine if the issue is with the speaker or the wiring/source. ◦ Check head unit balance settings.

Warranty and Support

Morel Maximo Ultra 602 Coax MKII speakers come with a Limited Warranty. For specific terms and conditions, please refer to the warranty card included with your product or visit the official Morel website. Keep your purchase receipt as proof of purchase for warranty claims.
For technical support or service inquiries, please contact your authorized Morel dealer or visit the Morel support section on their official website.

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