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MTX AWMC3

MTX AWMC3 All-Weather Multimedia Controller User Manual

Model: AWMC3

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1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the MTX AWMC3 All-Weather Multimedia Controller. The AWMC3 is designed for use in various environments, offering multimedia control and audio playback from multiple sources. Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage.



Figure 1: Front view of the MTX AWMC3 All-Weather Multimedia Controller, showing the display and control buttons.

2. SAFETY INFORMATION

Important Safety Instructions:

- Always disconnect the vehicle's battery before beginning any installation.
- Ensure all wiring is properly insulated and secured to prevent shorts and damage.
- Do not operate the unit in a manner that distracts from driving.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.
- Refer to the wiring diagram for correct connections. Incorrect wiring can cause damage to the unit or vehicle.

3. SETUP & INSTALLATION

3.1 Package Contents

Verify that all components are present before beginning installation:

- MTX AWMC3 Multimedia Controller
- Mounting Bracket
- Wiring Harness
- Mounting Hardware

3.2 Mounting the Unit

The AWMC3 is designed to fit into a standard 3-inch gauge opening. Ensure there is sufficient depth behind the mounting surface for the unit and wiring connections.

1. Cut a 3-inch (76mm) diameter hole in the desired mounting location.
2. Insert the AWMC3 into the opening.
3. Secure the unit using the provided mounting bracket and hardware.



Figure 2: Mounting plate for the MTX AWMC3, showing the circular opening for the unit and screw holes.



Figure 3: U-shaped mounting bracket used to secure the AWMC3 from the rear of the mounting surface.

3.3 Wiring Connections

Connect the wiring harness to the rear of the AWMC3 and then to the vehicle's electrical system and speakers. Refer to the detailed wiring diagram below for specific connections.



Figure 4: Rear view of the MTX AWMC3 with the main wiring harness and RCA outputs connected.



Figure 5: Detailed view of the multi-pin wiring harness for power, ground, and speaker connections.



Figure 6: Close-up of various connections including USB, RCA pre-outs, and the main power/speaker harness.



Figure 7: Additional close-up showing the various input/output connections and labels on the wiring.

Wiring Diagram (Example)

Wire Color	Function
Yellow	12V Constant Power
Red	12V Accessory/Ignition
Black	Ground
Blue	Remote Turn-On (for external amplifier)
White	Front Left Speaker (+)
White/Black	Front Left Speaker (-)
Gray	Front Right Speaker (+)
Gray/Black	Front Right Speaker (-)
Green	Rear Left Speaker (+)

Wire Color	Function
Green/Black	Rear Left Speaker (-)
Violet	Rear Right Speaker (+)
Violet/Black	Rear Right Speaker (-)

Note: This is a general wiring guide. Always refer to the specific wiring diagram included with your product for exact connections.

4. OPERATING INSTRUCTIONS

4.1 Basic Controls

The AWMC3 features a 3-inch color TFT display and backlit control buttons for easy operation.

- **Power Button:** Press and hold to turn the unit on or off. Press briefly to mute/unmute audio.
- **Source Button:** Cycles through available audio sources (AM/FM/WB, Bluetooth, AUX, USB, SiriusXM).
- **Menu Button:** Accesses system settings and audio adjustments (e.g., Equalizer).
- **Volume Knob:** Rotate to adjust volume level.
- **Track/Tune Buttons:** Use to skip tracks, change radio stations, or navigate menus.

4.2 Audio Sources

AM/FM/WB Tuner

Select the AM, FM, or Weather Band (WB) source. Use the track buttons to tune to stations. The unit supports automatic station scanning.

Bluetooth Connectivity

To pair a Bluetooth device:

1. Select Bluetooth as the source.
2. On your mobile device, search for available Bluetooth devices and select "AWMC3".
3. Confirm pairing if prompted.
4. Once paired, you can stream audio from your device.

Note: Bluetooth functionality depends on your phone's capabilities.

USB Input

Connect a USB device to the USB input for audio playback and charging. The unit supports various audio file formats. Use the track buttons to navigate through files.

AUX Input

Connect an external audio device using a 3.5mm audio cable to the AUX input.

SiriusXM Satellite Radio (Optional)

If a SiriusXM tuner is connected (sold separately), select SiriusXM as the source. A subscription is required for service. Refer to the SiriusXM tuner's manual for specific operation.

4.3 Audio Settings (Equalizer)

Press the Menu button to access audio settings. The built-in equalizer allows adjustment of bass, treble, and other audio characteristics to optimize sound output.

5. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the unit's surface. Do not use abrasive cleaners or solvents.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Environmental Protection:** While the unit is all-weather, avoid prolonged exposure to extreme conditions or direct high-pressure water sprays.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power	Blown fuse; Incorrect wiring; No 12V power.	Check fuses; Verify power and ground connections; Ensure ignition is on.
No Sound	Volume too low; Mute engaged; Incorrect speaker wiring; Amplifier not powered.	Increase volume; Disable mute; Check speaker connections; Verify remote turn-on for external amplifier.
Bluetooth Not Connecting	Device not in pairing mode; Unit not in Bluetooth source; Interference.	Ensure device is discoverable; Select Bluetooth source on AWMC3; Move closer to unit.
USB Playback Issues	Unsupported file format; Corrupt USB device; Loose connection.	Check file formats; Try a different USB device; Ensure USB is fully inserted.

7. SPECIFICATIONS

- **Model:** AWMC3
- **Output Power:** 20 Watts RMS x 4 channels (50 Watts Peak x 4 channels)
- **Display:** 3-inch Color TFT
- **Mounting:** Standard 3-inch Gauge Opening
- **Connectivity:** Bluetooth, USB, 3.5mm AUX Input, SiriusXM Ready
- **Tuner:** AM/FM/Weather Band
- **Audio Output:** Stereo, 4-Channel Pre-outs
- **Special Features:** Built-in Equalizer, Backlit Control Buttons
- **Dimensions (Product):** Approximately 11 x 11 x 5 inches (Packaging/Shipping dimensions, actual unit is smaller)
- **Weight (Item):** 2 pounds

Note: Specifications are subject to change without notice.

8. WARRANTY & SUPPORT

8.1 Warranty Information

MTX Audio products are designed and engineered to provide years of reliable service. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official MTX Audio website. Keep your proof of purchase for warranty claims.

8.2 Customer Support

If you encounter issues not covered in the troubleshooting section or require further assistance, please contact MTX Audio customer support. Contact information can typically be found on the manufacturer's website or on the product packaging.

Online Resources: For additional support, FAQs, and product updates, visit the official MTX Audio website.