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MTX Audio TH90.2 TH Series Car Amplifier Instruction Manual

Model: TH90.2

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MTX Audio TH90.2 TH Series Car Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure proper function and to prevent damage to the unit or your vehicle's audio system.

1.1 Safety Information

- Always disconnect the vehicle's battery negative terminal before beginning any installation.
- Ensure all wiring is properly routed and secured to prevent pinching or damage.
- Use appropriate gauge wiring for power and ground connections as specified in this manual.
- Mount the amplifier securely in a location that allows for adequate ventilation and is protected from moisture and excessive heat.
- Consult a professional installer if you are unsure about any part of the installation process.



Figure 1: Top view of the MTX Audio TH90.2 Car Amplifier. This image displays the amplifier's anodized aluminum top cover with the MTX Audio logo centrally placed, indicating its sleek design and robust construction.

2. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation:

- MTX Audio TH90.2 TH Series Car Amplifier
- Mounting Hardware (screws)
- High-Level Input Connector
- Owner's Manual (this document)

3. PRODUCT FEATURES

The MTX Audio TH90.2 amplifier is engineered for high performance and reliability. Key features include:

- **Anodized Aluminum Top Cover:** Provides durability and aids in heat dissipation through convection cooling.
- **Variable High and Low Pass Crossovers:** Allows for precise tuning of audio frequencies to match your speaker system.
- **High Level Inputs:** Enables connection to factory or aftermarket head units without RCA outputs.
- **Robust Construction:** Designed to meet high performance standards through rigorous quality testing.



Figure 2: Close-up view of the MTX Audio logo on the amplifier's top cover. This detail highlights the subtle branding and the textured finish of the anodized aluminum, emphasizing the amplifier's premium material quality.

4. SETUP AND INSTALLATION

4.1 Mounting Location

Choose a mounting location that is dry, well-ventilated, and secure. Avoid mounting the amplifier directly on carpet or in enclosed spaces that restrict airflow. Common locations include under seats, in the trunk, or behind panels.



Figure 3: Side view of the MTX Audio TH90.2 amplifier. This image shows the heat sink fins along the side and the integrated mounting tabs on each end, which are used to secure the amplifier to a flat surface.

4.2 Mounting Procedure

1. Place the amplifier in the desired mounting location and mark the positions for the mounting screws.
2. Drill pilot holes if necessary, ensuring no wires or vehicle components are damaged.
3. Secure the amplifier using the provided mounting screws.

5. CONNECTIONS

5.1 Power and Ground Connections

Proper power and ground connections are critical for amplifier performance and safety.

- **GND (Ground):** Connect to a clean, unpainted metal surface of the vehicle chassis. The ground wire should be as short as possible (less than 3 feet) and of the same gauge as the power wire.
- **REM (Remote Turn-On):** Connect to the remote turn-on output of your head unit. This wire signals the amplifier to turn on and off with the head unit.
- **+BATT (12V Power):** Connect directly to the positive terminal of the vehicle's battery. An in-line fuse holder with the appropriate fuse rating (typically 30A for TH90.2) must be installed within 18 inches of the battery.
- **FUSE:** The amplifier includes an integrated fuse. Ensure it is correctly rated.



Figure 4: View of the power and speaker terminal block on the MTX Audio TH90.2 amplifier. This image clearly shows the GND, REM, +BATT terminals, the fuse slot, and the SPEAKER output terminals (R+, R-, L+, L-), along with the BRIDGE connection points.

5.2 Speaker Connections

Connect your speakers to the SPEAKER terminals. Observe correct polarity (positive to positive, negative to negative).

- **Stereo Mode:** Connect left speaker to L+ and L-, right speaker to R+ and R-.
- **Bridged Mode:** For mono operation (e.g., a subwoofer), connect the speaker's positive terminal to R+ and the negative terminal to L-. Refer to the 'BRIDGE' markings on the amplifier.

5.3 Input Connections

The TH90.2 offers both low-level (RCA) and high-level inputs.

- **LINE IN (RCA):** Connect RCA cables from your head unit's pre-amp outputs to the amplifier's LINE IN jacks.
- **HLI (High-Level Input):** If your head unit does not have RCA outputs, use the provided high-level input connector. Connect your head unit's speaker wires to the HLI connector, observing polarity.
- **LINE OUT (RCA):** These outputs allow you to pass the audio signal to another amplifier in a multi-amplifier system.



Figure 5: View of the input and control panel on the MTX Audio TH90.2 amplifier. This image displays the HLI (High-Level Input) connector, LINE OUT and LINE IN RCA jacks, GAIN control, X-OVER switch (HP, FULL, LP), HPF and LPF adjustment knobs, and the POWER/PROTECT indicator light.

6. CONTROLS AND ADJUSTMENTS

The TH90.2 amplifier features several controls for fine-tuning your audio system.

- **GAIN:** This control matches the amplifier's input sensitivity to the output level of your head unit. Start with the gain at minimum and slowly increase it until the sound is clear and undistorted at high volume levels from your head unit.
- **X-OVER (Crossover Switch):**
 - **HP (High Pass):** Allows frequencies above the set HPF point to pass through. Useful for full-range speakers to prevent low-frequency distortion.
 - **FULL:** Allows all frequencies to pass through.
 - **LP (Low Pass):** Allows frequencies below the set LPF point to pass through. Essential for subwoofers.
- **HPF (High Pass Filter):** Adjusts the cutoff frequency for the high-pass filter (40Hz - 400Hz).
- **LPF (Low Pass Filter):** Adjusts the cutoff frequency for the low-pass filter (40Hz - 400Hz).

7. OPERATING INSTRUCTIONS

Once all connections are made and verified, and initial gain settings are established:

1. Turn on your vehicle's ignition and head unit. The amplifier's POWER indicator should illuminate.
2. Play a familiar audio track at a moderate volume.
3. Adjust the gain control as described in Section 6 to achieve clear, undistorted sound.
4. Fine-tune the crossover settings (HPF/LPF) to blend the amplifier's output with other speakers in your system.
5. If the PROTECT indicator illuminates, refer to the Troubleshooting section.

8. MAINTENANCE

The MTX Audio TH90.2 amplifier requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's heat sinks are free from obstructions to allow for proper airflow.
- **Connections:** Occasionally check all power, ground, and speaker connections to ensure they are secure and free from corrosion.

9. TROUBLESHOOTING

If you experience issues with your amplifier, consult the following table before contacting support.

Symptom	Possible Cause	Solution
No Power / No Indicator Light	Blown fuse, poor power/ground connection, no remote turn-on signal.	Check in-line fuse and amplifier fuse. Verify power, ground, and remote wire connections. Ensure head unit is on.
PROTECT Light On	Speaker short circuit, impedance too low, overheating, DC offset.	Check speaker wiring for shorts. Verify speaker impedance. Ensure adequate ventilation. Disconnect speakers and test.
No Sound Output	Input signal issue, gain too low, speaker wires disconnected.	Check RCA/high-level input connections. Increase gain. Verify speaker connections.
Distorted Sound	Gain set too high, improper crossover settings, poor ground.	Reduce gain. Adjust crossover settings. Check ground connection for integrity.

10. SPECIFICATIONS

The following are the technical specifications for the MTX Audio TH90.2 TH Series Car Amplifier:

- **Model Number:** TH90.2
- **Product Dimensions:** 14 x 4.58 x 9.58 inches
- **Item Weight:** 5.75 pounds
- **Manufacturer:** Mitek Corporation
- **Features:** Anodized Aluminum Top Cover, Variable High and Low Pass Crossovers, High Level Inputs

- **ASIN:** B00852V9OG
- **Date First Available:** July 17, 2012

11. WARRANTY AND SUPPORT

MTX Audio products are designed and manufactured to the highest quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official MTX Audio website. For technical support or service inquiries, please contact MTX Audio customer service.

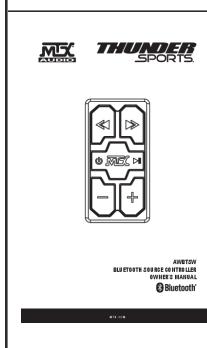
Related Documents - TH90.2

	<p>MTX Audio Thunder 251D & 311D Power Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for MTX Audio Thunder 251D and 311D power amplifiers. Covers installation, features, technical specifications, gain adjustment, troubleshooting, and warranty information.</p>
	<p>MTX Road Thunder Amplifiers User Manual and Specifications</p> <p>Comprehensive user manual and specifications for MTX Road Thunder amplifiers, including models 236RT2120, 236RT2200, 236RT2400, and 236RT2600. Covers installation, features, system diagrams, and technical specifications.</p>
	<p>MTX 278003880 Owner's Manual - Vehicle Bluetooth Audio System</p> <p>Owner's manual for the MTX 278003880 Vehicle Bluetooth Audio System. Provides setup instructions, button functions, and important regulatory and compliance information.</p>
	<p>MTX MUDLEDC LED Remote Control Owner's Manual</p> <p>Owner's manual for the MTX MUDLEDC LED Remote Control, detailing its features, specifications, general operation, and installation for RGB LED audio components. Includes remote layout and button functions.</p>



[MTX Audio MUD65PL Universal UTV Audio Kit Installation Guide and Owner's Manual](#)

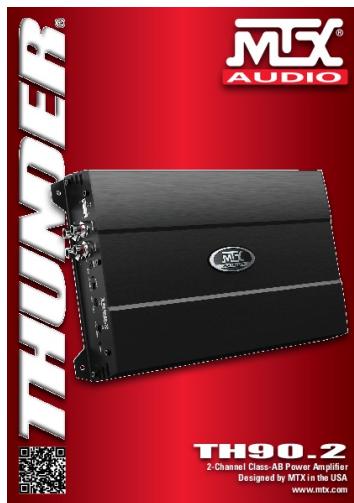
This document provides installation instructions, features, specifications, wiring diagrams, and warranty information for the MTX Audio MUD65PL Universal UTV Audio Kit and MUD100.2 Amplifier. Learn how to properly mount and connect these high-performance UTV speakers and amplifiers for an enhanced audio experience.



[MTX Audio AWBT SW Bluetooth Source Controller Owner's Manual](#)

Owner's manual for the MTX Audio AWBT SW Bluetooth Source Controller, detailing its features, operation, pairing, mounting, and wiring. This device allows users to control audio playback from Bluetooth-enabled devices in vehicles.

Documents - MTX Audio – TH90.2



[\[pdf\] User Manual Owner's Manual Specifications Dimension Guide](#)

TH90 MTX Owner's Manual 2 Introduction Thank you for purchasing an Audio Hi Performance amplifier Proper installation matched with speakers and subwoofers provide superior sound performance endless hours of enjoyment whether are waking the neighbors or just out enjoying your tunes Congratulations enjoy ultimate audio MTX004237 F120116072145961a10 mtx f 198 GetFile asp File

TH90.2 2-Channel Class-AB Power Amplifier Designed by MTX in the USA

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[\[pdf\] Installation Guide Warranty](#)

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