MTX Audio

MTX Audio MUDSYS46 Overhead UTV Audio System User Manual

Comprehensive guide for installation, operation, and maintenance.

1. INTRODUCTION

The MTX Audio MUDSYS46 is an all-weather Bluetooth UTV sound system designed to provide high-quality audio for off-road vehicles. This system integrates four 6.5-inch coaxial speakers and a 280-watt power amplifier, offering robust sound performance in challenging environments. It features multiple input options including Bluetooth 4.2, 3.5mm auxiliary, and USB, along with an integrated AM/FM radio and additional utility features.

Figure 1: Front view of the MTX Audio MUDSYS46 Overhead UTV Audio System, showcasing its integrated design with speakers and central control panel.

2. KEY FEATURES

- **Integrated Audio System:** Combines four 6.5-inch coaxial speakers and a 280-watt integrated power amplifier for powerful sound.

- **Multiple Connectivity Options:** Supports Bluetooth 4.2 for wireless streaming, 3.5mm auxiliary input, and USB for charging and portable music playback.

- **Built-in Radio:** Features an integrated digital AM/FM radio with US and European frequency bands.

- **Utility Features:** Includes a digital clock, a switch-controlled LED map light, and convenient storage cargo nets.

- **Durable Design:** Engineered as an all-weather system suitable for rugged off-road conditions.

- **Expandable Audio:** RCA output allows connection to external amplifiers for additional speakers or subwoofers.

FULLY FUNCTIONAL

RCA OUTPUT

Can be used to connect external amplifiers to run additional speakers or subwoofers

3 FORMS OF INPUT

- Bluetooth 4.2
- 3.5 mm auxiliary
- USB

CARGO NETS

4 SPEAKERS

Four 6.5-inch all-weather coaxial speakers

INCLUDES:

- Digital AM/FM radio
- Digital clock
- Switch-controlled LED map light

Figure 2: Diagram illustrating the key functional components of the MUDSYS46, including RCA output, input options, cargo nets, and integrated features.

3. SPECIFICATIONS

Attribute	Value
Model Name	MUDSYS46
Speaker Type	Coaxial
Speaker Size	6.5 Inches (x4)
Maximum Output Power	280 Watts
Product Dimensions (D x W x H)	4.125"D x 46.813"W x 8.5"H
Item Weight	22.95 Pounds

Attribute	Value
Input Voltage	12 Volts
Wireless Technology	Bluetooth 4.2
Bluetooth Range	Up to 10 meters (33 feet)
Connectivity Options	Bluetooth, 3.5mm Auxiliary, USB
Audio Output	RCA (for external amplifiers)
Water Resistance Level	Water Resistant
Compatible Roll Cage Diameter	1.75" to 2"
Compatible Roll Cage Inside Measurement	49.25" to 56.0"

SPECIFICATIONS

Height:
8.5" (21.59 cm)

Width:
46.813" (118.91 cm)

Depth:
4.125" (10.48 cm)

Warranty Period:
24 months from date of purchase

Fits cages with inside measurements from 49.25" to 56"

Figure 3: Visual representation of the MUDSYS46 dimensions and warranty period.

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended to have this system installed by a qualified professional if you are not familiar with vehicle electrical systems.

4.1. Pre-Installation Checklist

- Verify your UTV's roll cage diameter is between 1.75" and 2".
- Ensure the inside measurement of your roll cage is between 49.25" and 56.0".
- Gather necessary tools: wire strippers, crimpers, drill, measuring tape, and appropriate fasteners.
- Disconnect the UTV's battery before beginning any electrical work.

4.2. Mounting the Sound Bar

1. Position the MUDSYS46 sound bar on the roll cage, ensuring it is centered and does not obstruct visibility or headroom. Note that installation may reduce headroom, especially for riders wearing helmets.
2. Secure the sound bar using the provided mounting clamps. Ensure all clamps are tightened evenly to prevent vibration and movement during operation.
3. For Polaris RZR Pro Fit cages, optional accessory clamps (sold separately) may be required if a round roll bar is not present.

4.3. Wiring Connections

The MUDSYS46 features a simplified wiring harness for easy connection.

- **+12-Volt (Red Wire):** Connect to a switched 12-volt power source (e.g., ignition wire) that turns on and off with the UTV.
- **Ground (Black Wire):** Connect to a solid chassis ground point on the UTV.
- **Ignition (Blue Wire):** Connect to a 12-volt accessory wire that is active when the UTV is running.
- **RCA Output:** If connecting external amplifiers or subwoofers, use the RCA output jacks.

Ensure all connections are secure and properly insulated to prevent short circuits and corrosion.

Figure 4: The MTX Audio MUDSYS46 sound bar mounted on a UTV roll cage, demonstrating its overhead placement for optimal sound dispersion.

5. OPERATION

The MUDSYS46 features an intuitive control panel for easy operation of its various functions.

Figure 5: Detailed view of the central control panel, showing buttons for power, mute, mode selection, track control, and volume adjustment.

5.1. Powering On/Off

- Press the **Power/Mute** button to turn the unit on or off.

5.2. Input Modes

Press the **MODE** button to cycle through available input sources:

- **Bluetooth:** For wireless audio streaming from compatible devices.
- **AM/FM Radio:** Access integrated digital radio tuner.
- **USB:** For playing music from a USB drive or charging a connected device.
- **AUX (3.5mm):** For connecting external audio devices via a 3.5mm cable.

5.3. Bluetooth Pairing

1. Ensure the MUDSYS46 is in Bluetooth mode.
2. On your mobile device, search for available Bluetooth devices and select "MTX MUDSYS46".
3. Once paired, audio from your device will stream wirelessly to the sound bar. Note that pairing may be required with each power cycle, depending on your Bluetooth hardware and software.

5.4. Radio Operation

- In AM/FM mode, use the **BAND** button to switch between AM and FM bands.
- Use the **Forward/Backward** buttons to tune to the next/previous station or seek.
- Press **APS** to auto-scan and store stations.

5.5. Volume and Track Control

- Use the **+** and **-** buttons to adjust the volume level.
- Use the **Track Forward** and **Track Backward** buttons to skip tracks (in Bluetooth/USB modes).

5.6. LED Map Light

- A dedicated switch controls the integrated LED map light for illumination.

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Video 1: An overview of the MTX Audio MUDSYS46 Overhead Sound Bar, detailing its features and design. This video provides a visual guide to the product's capabilities and physical attributes.

6. MAINTENANCE

Regular maintenance ensures the longevity and performance of your MUDSYS46 system.

- **Cleaning:** Use a soft, damp cloth to clean the exterior. Avoid harsh chemicals or abrasive cleaners.
- **Connections:** Periodically check all wiring connections for tightness and signs of corrosion. Re-tighten or clean as necessary.
- **Mounting:** Inspect mounting clamps and hardware regularly to ensure they remain secure, especially after off-road use.
- **Storage:** If storing the UTV for extended periods, ensure the sound bar is clean and dry. Consider covering it to protect from dust and elements.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your MUDSYS46 system.

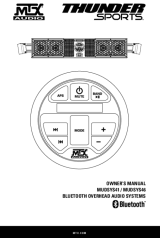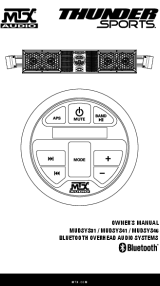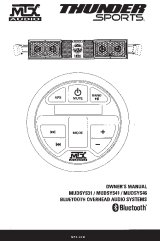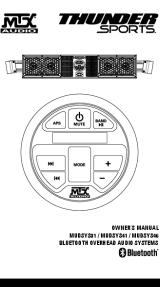| Problem	Possible Cause	Solution
No Power	Loose power/ground wires; Blown fuse; No ignition signal.	Check all wiring connections. Inspect and replace any blown fuses. Ensure ignition wire receives 12V when UTV is on.
No Audio Output	Incorrect input mode; Volume too low; Device not paired (Bluetooth).	Press MODE to select correct input. Increase volume. Re-pair Bluetooth device. Check RCA connections if external amp is used.
Poor Sound Quality	Source audio quality; Loose speaker connections; Speaker damage.	Try a different audio source. Check speaker wiring. If distortion persists, contact support.
Bluetooth Disconnection	Device out of range; Interference; Device software issue.	Keep device within 10 meters (33 feet). Minimize interference from other electronic devices. Restart both the sound bar and the Bluetooth device.
Radio Static/Poor Reception	Weak signal; Antenna issue; Interference.	Relocate UTV to an area with better signal. Check antenna connection.

8. WARRANTY AND SUPPORT

The MTX Audio MUDSYS46 is backed by a **24-month limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
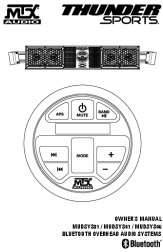
For warranty claims, technical support, or service inquiries, please contact MTX Audio customer service. Keep your proof of purchase for warranty validation.

For additional resources and product information, visit the official MTX Audio website:www.mtx.com

Related Documents -

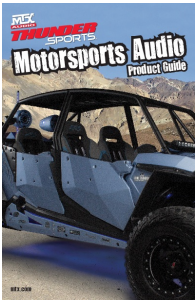|	
	MTX MUDSYS41 MUDSYS46 Bluetooth Overhead Audio System Owner's Manual Comprehensive owner's manual for the MTX MUDSYS41 and MUDSYS46 Bluetooth Overhead Audio Systems, designed for off-road vehicles. Includes installation instructions, operation guide, features, and troubleshooting.
	MTX Thunder Sports MUDSYS31, MUDSYS41, MUDSYS46 Bluetooth Overhead Audio Systems Owner's Manual Owner's manual for MTX Thunder Sports MUDSYS31, MUDSYS41, and MUDSYS46 Bluetooth Overhead Audio Systems, providing installation instructions, operation details, features, and troubleshooting for off-road vehicles.
	MTX Thunder Sports MUDSYS31 MUDSYS41 MUDSYS46 Bluetooth Overhead Audio Systems Owner's Manual Owner's manual for MTX Thunder Sports MUDSYS31, MUDSYS41, and MUDSYS46 Bluetooth Overhead Audio Systems. This guide provides detailed instructions for installation, operation, troubleshooting, and features of these all-weather audio systems designed for off-road vehicles.
	MTX Audio Thunder Sports Bluetooth Overhead Audio Systems Owner's Manual Owner's manual for MTX Audio MUDSYS31, MUDSYS41, and MUDSYS46 Bluetooth Overhead Audio Systems. Learn about features, installation, wiring, button layout, settings, and troubleshooting for these all-weather powersports audio units designed for off-road vehicles.

[MTX Audio Thunder Sports MUDSYS Series Bluetooth Overhead Audio Systems Owner's Manual](#)
Discover the MTX Audio Thunder Sports MUDSYS31, MUDSYS41, and MUDSYS46 Bluetooth Overhead Audio Systems. This owner's manual provides detailed instructions for installation, operation, features, and troubleshooting for these all-weather off-road audio solutions.

[MTX Audio Motorsports Product Guide: UTV, Motorcycle, Marine Audio Systems](#)
Explore the MTX Audio Motorsports Product Guide featuring high-performance audio systems for UTVs, motorcycles, and marine vehicles. Discover all-weather receivers, amplifiers, sound bars, speakers, and subwoofers designed for extreme environments, including Polaris RZR, Ranger, Can-Am, and Harley Davidson compatibility.