



MTX Audio UNI-1-MUDBTRC Universal Bluetooth UTV Kit Audio Package Instructions

[Home](#) » [MTX Audio](#) » MTX Audio UNI-1-MUDBTRC Universal Bluetooth UTV Kit Audio Package Instructions 



OWNER'S MANUAL



MUD100.2 AMPLIFIER



<http://mitk.co/BYJ>

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Contents

- 1 UNI-1-MUDBTRC Universal Bluetooth UTV Kit Audio Package
- 2 PRODUCT INFORMATION
- 3 INTRODUCTION
- 4 FEATURES
- 5 CONTROL FUNCTIONS
- 6 PANEL LAYOUT
- 7 INSTALLATION AND MOUNTING
- 8 TROUBLESHOOTING
- 9 SPECIFICATIONS
- 10 WIRING DIAGRAM
- 11 Documents / Resources

UNI-1-MUDBTRC Universal Bluetooth UTV Kit Audio Package

Instruction Disclaimer

Dennis Kirk provides instructions to help our customers better understand how to install the products we sell. The instructions are exact copies of what the manufacturer includes with the product being sold.

That means the quality and accuracy of the instructions is solely dependent on what the manufacturer produces. We do our best to make the text legible and the pictures viewable. However, the end result depends largely on the quality of instructions the manufacturer provides.

Therefore, you will find that some instructions are not of the highest quality. Sometimes text is hard to read and pictures are not easy to see. At times you will find the overall look of the instructions to be less than professional. However, we feel it is better to provide what we have rather than provide nothing at all.

To the best of our knowledge the instructions and application information contained in the instructions is accurate. However, Dennis Kirk assumes no liability related to any errors that may be contained in the copy of the manufacturer's instructions we provide. Buyers are solely responsible to insure that product use is consistent with their application.

If you have any questions please contact us at customerservice@denniskirk.com or 800-969-7501 so we can further assist you regarding additional product information or any other business related questions.

Thank you for doing business with Dennis Kirk.

PRODUCT INFORMATION

Model #

Serial #

Dealer's Name

Date of Purchase

INTRODUCTION

Thank you for purchasing this MTX Audio Hi-Performance amplifier. Proper installation matched with MTX speakers and subwoofers provide superior sound and performance for endless hours of enjoyment whether you are waking the neighbors or just out enjoying your tunes. Congratulations and enjoy the ultimate audio experience with MTX!

FEATURES

- Compact Size
- Double Sided PCB
- Surface Mount Components
- MOSFET Design
- LPF and HPF Crossover
- Noise Free Design

CONTROL FUNCTIONS

1. Wiring Harness – All wiring to the amplifier will run through the wiring harness.

Speakers – Connect speakers/subwoofers to these terminals. Be sure to check wire for proper polarity. Never connect the speaker cables to the chassis ground.

+BATT (+12 Volt Power) – Connect this terminal through a FUSE or CIRCUIT BREAKER to the positive terminal of the vehicle battery or the positive terminal of an isolated audio system battery. WARNING: Always protect this power cable by installing a fuse or circuit breaker of the appropriate gauge within 18 inches (45cm) of the battery terminal connection.

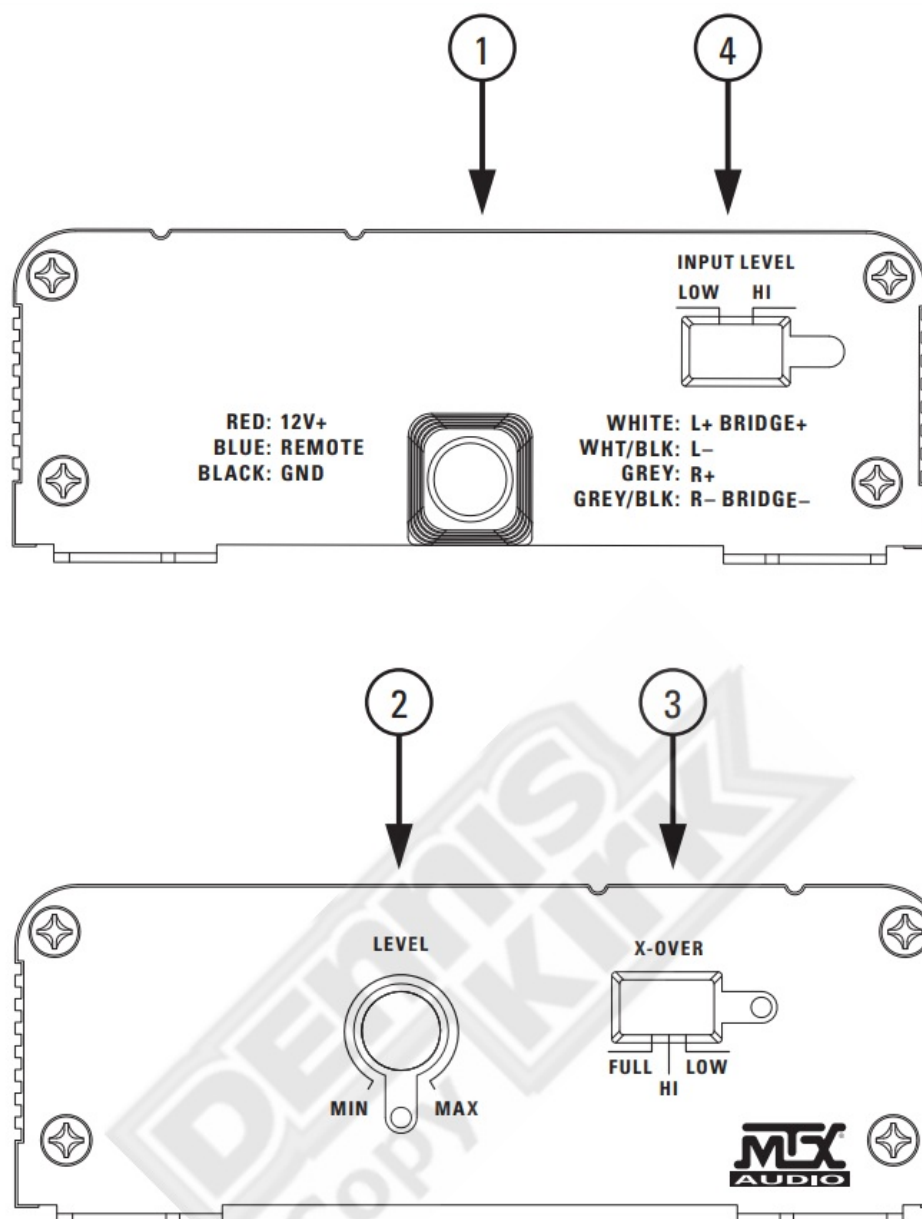
Remote Turn On – This terminal turns on the amplifier when (+) 12 volt is applied to it. Connect it to the remote turn on lead of the head unit or signal source.

GND – Connect this cable directly to the frame of the vehicle. Make sure the metal frame has been stripped of all paint down to the bare metal. Use the shortest distance possible. If a suitable ground point is not available on the frame, connect this terminal directly to the vehicle battery ground terminal or any other factory ground points.

RCA Input Jacks – This unit is designed to function with source units that feature either RCA or speaker level outputs. If using RCA cable connections from a source unit put the input level switch in the low level position. If connecting RCA cable connections from a speaker terminal put the input level switch in the high level position. A source unit with a minimum level of 200mV is required for proper operation.

2. Gain Control – The Gain control will match the amplifier's sensitivity to the source units signal voltage. The operating range is 10V to 200mV. NOTE: This is NOT a volume control.
3. X-Over Mode and Frequency Control (Full Range) – These controls allow control over the frequencies played. There is an option for Low Pass, Full Range, or High Pass. In LP or HP mode, the crossover frequency will be set at 80Hz.
4. Input Level – This slide switch selects between low level (RCA) inputs which provide 200mV – 5V input signal and high level (speaker level) inputs which provide 400mV – 10V input signal.

PANEL LAYOUT



WIRING DIAGRAM

See page 22 for amplifier wiring diagrams.

INSTALLATION AND MOUNTING

MTX recommends your new Thunder Sports™ amplifier be installed by a 12 volt installation specialist.

Any deviation from specified installation instructions can cause serious damage to the amplifier, speakers and/or vehicle's electrical system. Damage caused from improper installation is NOT covered under warranty. Please verify all connections prior to system turn on.

1. Disconnect the vehicle's negative battery cable.
2. Determine the mounting place for your MTX amplifier. Keep in mind there should be sufficient air flow for proper cooling. Mark the mounting holes from the amplifier to be drilled. Before drilling make sure all vehicle wires, gas lines, brake lines and gas tank are clear and will not interfere with installation. Drill the desired holes and mount the MTX amplifier.
3. Install a positive (+) power cable from the vehicle's battery through the firewall using a grommet or firewall bushing to avoid cable damage from sharp edges of the firewall. Run the cable through the interior of the vehicle and connect it to the amplifier's +12V wire. Do not connect to the battery at this time. NOTE: Use only

proper gauge wire for both positive and negative connections.

4. Install a circuit breaker or fuse within 18 inches of the battery. This effectively lowers the risk of severe damage to you or your vehicle in case of a short circuit or accident. Make sure the circuit breaker is switched Off or the fuse is taken out of the fuse holder until all connections are made. Now connect your positive power cable to the positive battery terminal of the battery.
5. Grounding – Locate a proper ground point on the vehicle's chassis and remove all paint, dirt or debris to reveal a bare metal surface. Attach the amplifier's ground wire to that contact point. If a suitable location is not available connect this terminal to the vehicle's negative battery terminal.
6. Connect a Remote Turn-On wire from the source unit to the MTX amplifier's (REM) wire. If the source unit does not have a dedicated Remote Turn-On lead, you may connect to the source unit's Power Antenna lead.
7. Supply the signal to your MTX amplifier by connecting the signal cables using high quality RCA to the corresponding outputs at the source unit or speaker leads and inputs of the amplifier.
8. Connect your speakers to your MTX amplifier's speaker wires using the correct gauge speaker wire. Your MTX amp can drive a 2Ω stereo/4Ω bridged minimum load for optimum power.
9. Double check all previous installation steps, in particular, wiring and component connections. Once verified, reconnect the vehicle's negative battery cable, turn the circuit breaker On or place the fuse in the fuse holder.

NOTE: Gain Levels on the amplifier should be turned all the way down (counter clockwise) before proceeding with adjustments.

INSTALLATION

For proper performance and safety, MTX recommends installing an inline fuse per the owner's manual instructions according to the following.

MUD100.2
15A Fuse

TROUBLESHOOTING

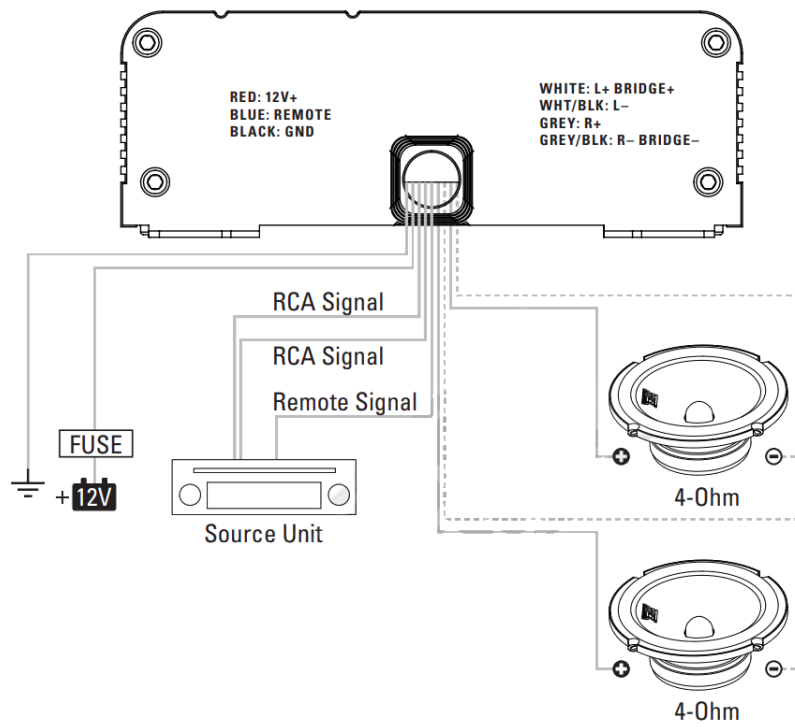
Problem	Cause	Solution
Output Distorted	Head Unit Volume Set Too High	Lower Head Unit Volume
	Amplifier Gain Set Too High	Lower Amplifier Gain
Balance Reversed	Speaker Wire L & R Reversed	Correct Speaker Wire Orientation
	RCA Inputs Reversed	Reverse RCA Inputs
Bass is Weak	Speakers Wired Out of Phase	Wire Speakers with Correct Phase
	Not Using MTX Subwoofers	Buy MTX Subwoofers
Blowing Fuses	Excessive Output Levels	Lower the Volume
	Amplifier Defective	Return for Service

SPECIFICATIONS

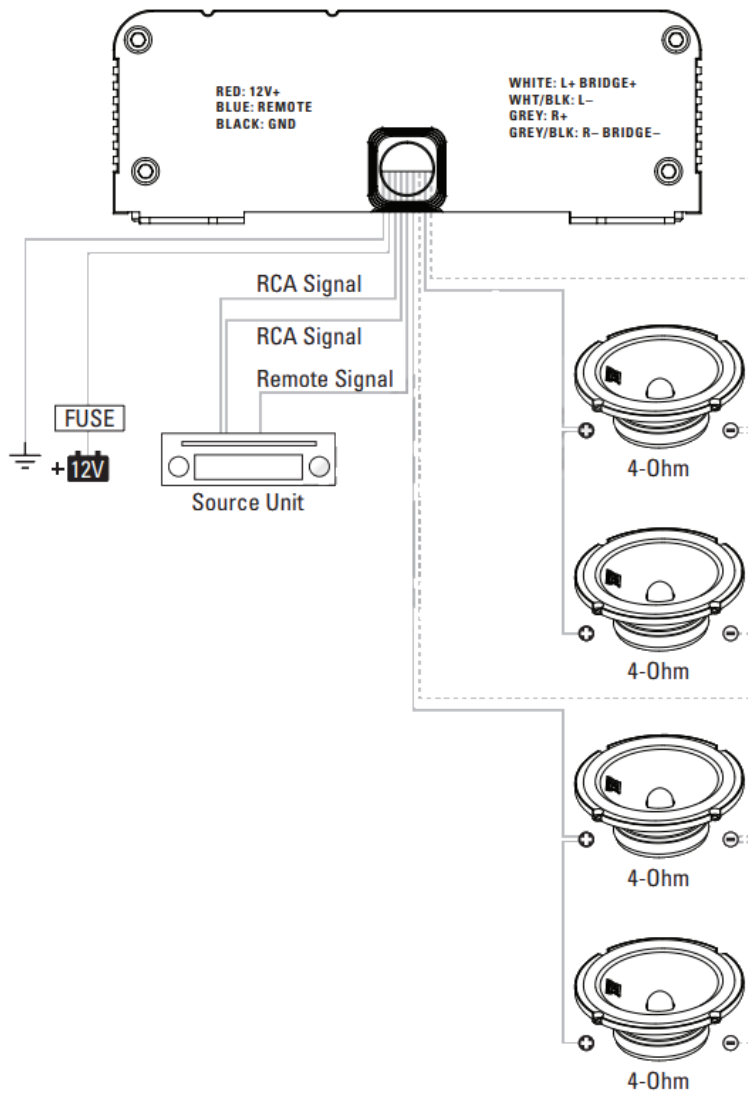
Model	MUD1002
Description	50W RMS/CH Stereo
RMS Power at 14.4V	
49 Bridged Load	200W RMS
29 Load	100W RMS
49 Load	50W RMS
Features	
Input Level	0.2 – 5V Low Level, 0.4 – 10V High Level
Frequency Response	20Hz – 20 kHz
Low Pass Filter (LPF)	80Hz Fixed
High Pass Filter (HPF)	80Hz Fixed
THD at 49 , 1W	<0.2%
Signal-to-Noise Ratio	>85dB
Minimum Load	2 Ω
Low Voltage Protection	Yes, Protect <8V
Components & PCB	SMD Parts / Double Sided FR-4 PCB
Dimensions	
Height	170' (43.2mm)
Width	4.65' (118mm)
Length	5.72' (145.3mm)

WIRING DIAGRAM

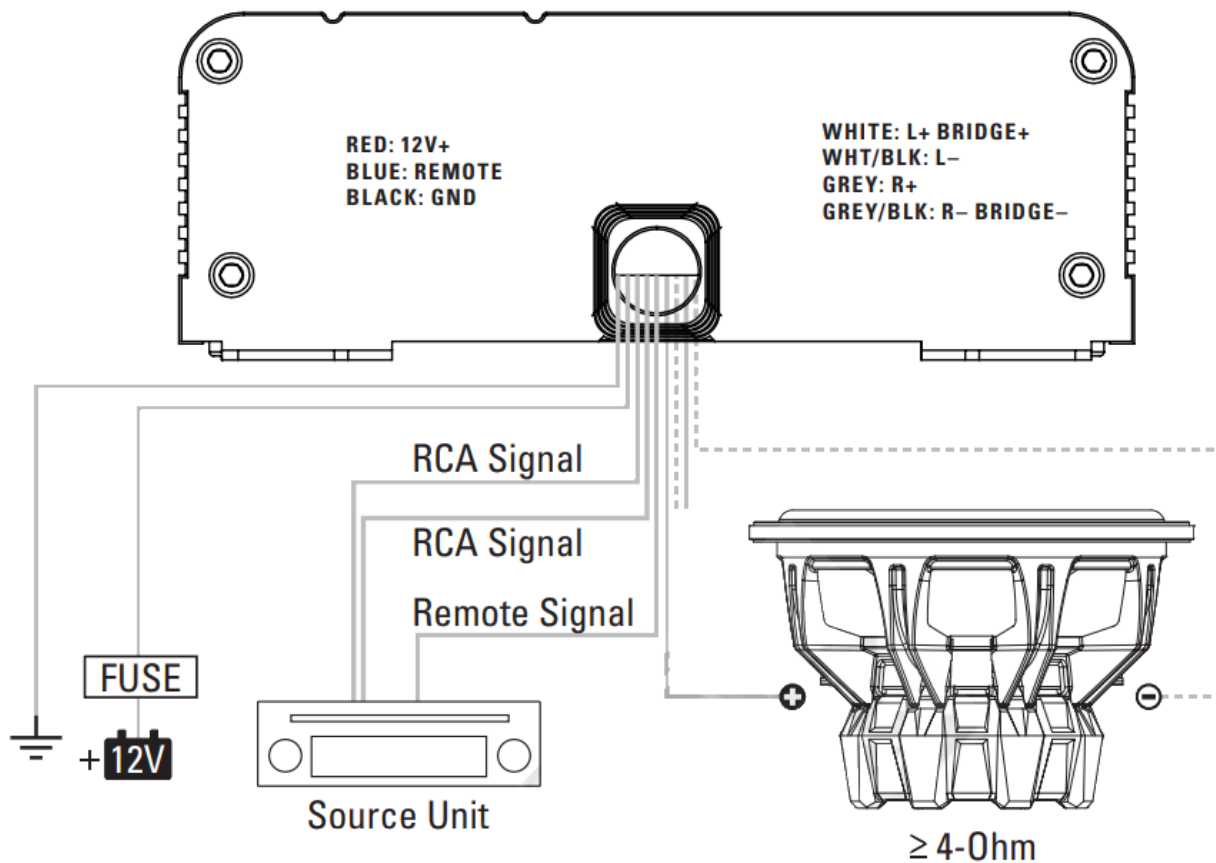
4 Ω Stereo



2Ω Stereo



4Ω Bridged



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Due to continual product development, all specifications are subject to change without notice.


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MTX004785 RevB 4/15 • 21A10399 • AW0015078



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Documents / Resources

	<p>MTX Audio UNI-1-MUDBTRC Universal Bluetooth UTV Kit Audio Package [pdf]</p> <p>Instructions</p> <p>UNI-1-MUDBTRC Universal Bluetooth UTV Kit Audio Package, UNI-1-MUDBTRC, Universal Bluetooth UTV Kit Audio Package, UTV Kit Audio Package, Kit Audio Package, Audio Package</p>
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