MEMPHIS XTREME AUDIO

PRODUCT MANUAL & INSTALLATION GUIDE

MXA2.140

2 - CHANNEL AMPLIFIER

Powersports and Marine Equipment Engineered To Perform In The Most Extreme Environments

MXA2.140

READY TO TURN IT UP? READ THIS FIRST!

Memphis Audio built a 50 year legacy in the audio industry engineering the highest quality products to produce the best possible listening experience for our fans and loyal supporters. To fully appreciate our products we recommend taking the time to read and follow the instructions in this manual. As always, we recommend all installations and service be performed by an authorized Memphis Audio dealer.

TIP For optimal performance, Memphis recommends using only Memphis Connection accessories. Outfitting your system with properly sized Memphis Connection wire and accessories will dramatically boost your listening experience and increase the durability of your Memphis Audio products.

Memphis Audio's MXA2.140 Channel amplifier boasting a compact design with excellent cosmetic styling which looks as good as it performs. The MXA140.2 is water resistant to protect it from the elements for all of your Xtreme needs.

TIP Combine with our Memphis Bluetooth Accessories and Memphis Xtreme speakers for the perfect rugged solution for Xtreme sound wherever you go!

FEATURES

- Sealed chassis for water protection in Xtreme environments
- Ultra-efficient full range class D operation
- High and low level inputs - connects with any system
- Built in crossover for maximum flexibility
- 2 channel input for easy installation
- Durable stainless steel & aluminum hardware

SPECIFICATIONS

- RMS power @ 4ohms: 2 x 100W
- RMS power @ 2ohms: 2 x1 40W
- Total Harmonic Distortion: < 0.1 (4ohms)
- Signal To Noise Ratio: 100dB
- Low Pass Filter: 120Hz / 80Hz
- Input Range: 200mV - 10V
- Signal Sensing Function
- Frequency response: 20Hz to 20KHz (+/-3dB)
- Dimensions: 5.91" x 4" x 1.75"

INSTALLATION INFORMATION

Memphis Audio recommends the installation of our products to be performed by an Authorized dealer. Attempting an installation project on your own or through an unauthorized source may result in damage to your products and may potentially void your warranty.

MXA amplifiers can be mounted in a numerous locations, we typically recommend mounting them away from the elements. We recommend mounting them in an area that avoids direct contact with water. A proper mounting location will also allow for adequate ventilation allowing heat to dissipate.

WARNING

For your safety, always inspect the mounting location carefully to ensure you are not drilling into any electrical, hydraulic, fuel or fluid lines. Always check your speaker load with a multi-meter before connecting the amplifier. Connecting any speaker load lower than the rated impedance of the amplifier will result in damage to the amplifier. Damage of this nature is NOT covered under warranty. Please pay close attention to what connections are made to the amplifier.

If you are uncertain or uncomfortable proceeding with your installation, please contact your local Authorized Memphis Audio Dealer

TROUBLESHOOTING

When troubleshooting your amp, speaker and speaker wires should be tested first.

No Output:

- Confirm all wiring is firmly connected.
  Both +12V and REM terminals must have +12 Volts present and GND must be connected to chassis' ground or to the negative battery terminal.
- Confirm the signal source is connected and supplying an output signal. To confirm the amp is working, connect an RCA patch cord to the line inputs of the amplifier (do not connect the other end of the patch cord). Briefly tap the center pin of each disconnected RCA with your finger. This should produce a noise (brief static or hum) in the speakers.
- If the amp is hot, check the speaker impedance or load. The total minimum impedance of all speakers should not be lower than the rating of the amp.

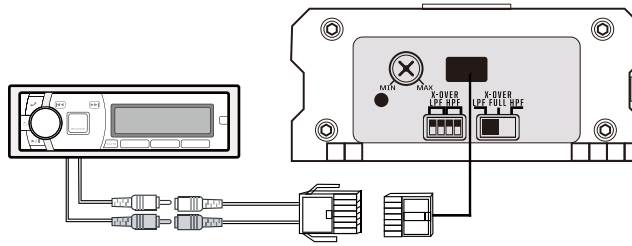
Weak Output;

- Check gain control adjustment
- Check speaker impedance

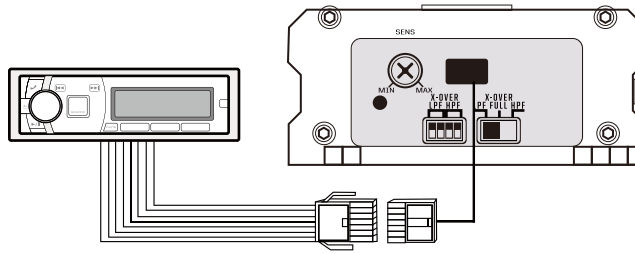
Unwanted Noise

- Whine that increases and decreases with engine speed - confirm the Amp & Source unit are grounded properly.
- Clicking or popping noise at a rate that follows engine speed - this is often induced by the vehicles ignition system. Confirm that the vehicle is equipped with resistor spark plugs and wires. The ignition system may need service.
- Noise can be caused by routing speaker input wires too close to the light wires and other accessory wires in the vehicle. Re-route wires to avoid unwanted interference.
- If above steps do not improve/reduce noise, the system should be checked by a professional audio installer at a Memphis Authorized Dealer.

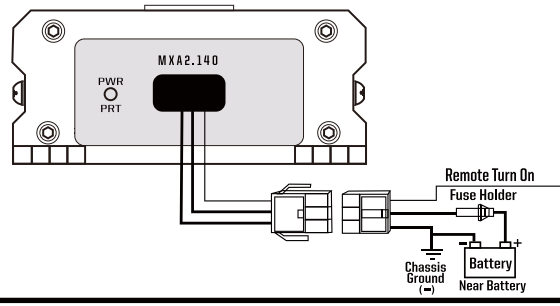
LOW LEVEL INPUT WIRING



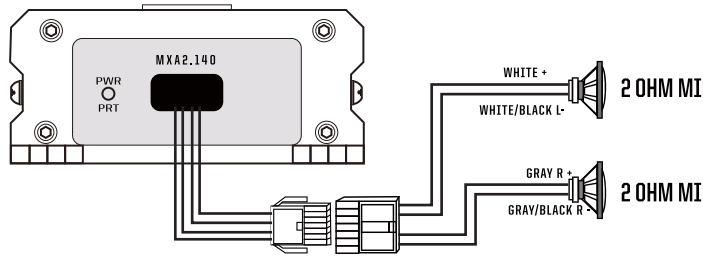
HIGH LEVEL INPUT WIRING



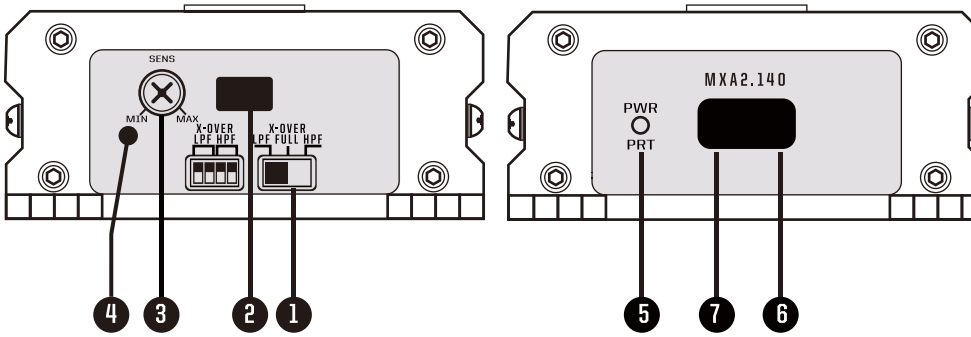
POWER INPUT WIRING



SPEAKER OUTPUT WIRING



CONTROLS/FUNCTIONS



1 LPF / FULL / HPF CROSSOVER

MXA140.2 provides 2 fixed crossover frequency settings (LPF & HPF).

LPF 50Hz HPF 120Hz

LPF 250Hz HPF 80Hz

2 LOW (RCA) HIGH LEVEL INPUT

Waterproof MOLEX connector allows 4 channel RCA or speaker level harness to be attached

3 SENSITIVITY CONTROL

Level control for 2 channels

⚠ Set the gain to Minimum before connecting high input, and then adjust the gain to your ideal range.

4 WATERPROOF RUBBER COVER

Rubber cover can be attached by inserting the rubber stem into mounting hole

5 POWER/PROTECTION INDICATOR

The dual color LED light will indicate when the amp is on and if it has gone into protection mode

BLUE: Power is ON RED: Protection Mode

6 POWER INPUT CABLE

YELLOW: +12V BLACK: Ground BLUE: Remote In

7 SPEAKER OUTPUT CABLE

WHITE: Front Output Left (+)
WHITE/BLACK: Front Output Left(-)
GRAY: Front Output Right (+)
GRAY/BLACK: Front Output Right (-)

WARRANTY

Memphis Xtreme Audio Limited Warranty

This product has a two year warranty from the date of purchase for defects in material or workmanship. This warranty will be extended to 3 years when installed by a Memphis authorized dealer using Memphis Connection products. The warranty is void if the product has been physically damaged by improper usage or abuse. If repairs are attempted outside of a Memphis Audio facility, the warranty is void.

This warranty is limited to the original retail purchaser and does not cover any expenses incurred in the removal or re-installation of the product. This warranty does NOT apply to product exterior and cosmetics. Memphis Audio disclaims any liability for incidental or consequential damages caused by product defects. Memphis Audio liability will not exceed the purchase price of the product and the warranty period specified.

What is NOT covered under warranty

- Damage due to improper installation
- Damage caused by exposure to moisture, excessive heat, chemical cleaners and/or UV radiation
- Damage through negligence, misuse, accident or abuse. (Repeated returns for the same damage may be abuse)
- Product damaged in accident and/or due to criminal activity
- Service performed by anyone other than Memphis Audio
- Subsequent damage to other components
- Any cost or expense related to the removal or re-installation of product
- Products with tampered, missing , altered or defaced serial numbers/labels
- Freight damage
- The cost of shipping product to Memphis Audio
- Return shipping on non-defective items
- Any product not purchased from an authorized Memphis Audio dealer

Some states do not allow the exclusion or limitation of incidental or consequential damages. The above limitations or exclusions may not apply to you. This warranty gives you specific rights, you may have other rights which vary from state to state.

If warranty service is required, a return authorization number is required to return the product to Memphis Audio. Warranty shipments to Memphis Audio are the responsibility of the purchaser. Pack the product carefully in the original carton if possible Memphis Audio will not be responsible for damages incurred in shipment or due to improper packaging materials used by the purchaser.

If determined to be within warranty your product will be repaired or replaced at the discretion of Memphis Audio.

NOTES

MEMPHIS
XTREME AUDIO

CONTACT INFO

122 GAYOSO AVE, MEMPHIS TN 38101

TECH SUPPORT 800-903-6979

SHOW US YOUR INSTALL & FOLLOW US TODAY!