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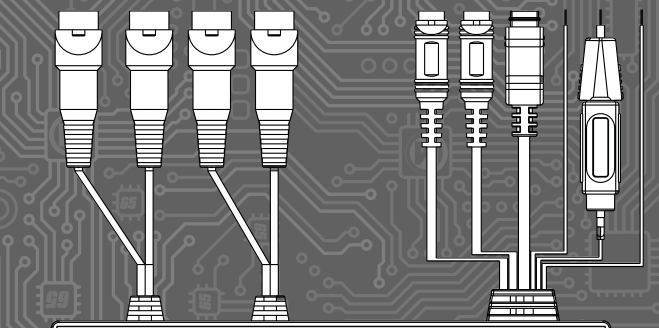
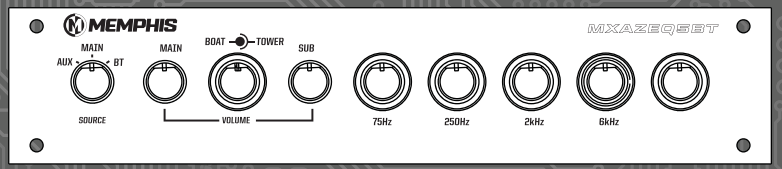




MXAZEQ5BT

Dual Zone 5-Band Marine EQ with Bluetooth

MXAZEQ5BT

Dual Zone 5-Band Marine EQ with Bluetooth & Sub Level

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.

The MXAZEQ5BT 5-Band marine grade EQ with Bluetooth allows you to dial in your system for peak performance and control cabin, tower and sub levels from a single unit. The universal 1/2 din design will fit easily in multiple applications and serve as the command center for your systems audio. This unit is a perfect solution for marine audio applications.

Features

Main Volume Control With Three Independent Zone Output Controls
Connect up to 3 external amplifiers with separate level output controls from the front panel with a master volume control for the entire system.

Front Panel Source Selector MAIN/AUX and BLUETOOTH
The front panel source selector control knob allows you to switch between 3 different input sources (BLUETOOTH, AUX and RCA INPUTS)

5-Band Dual Equalization - Bass, Mid-Bass, Mid and High (BOAT and TOWER)
Each center frequency receives 18dB of boost or cut to adjust
• Bass (75Hz) • Mid Bass (250Hz) • Mids (2kHz) • Mid/High (6kHz) • High (14.5kHz)

USB Charging Port
2 Amp output to charge your connected Bluetooth device.

High Voltage Line Driver
6V of pre-amp signal voltage to deliver clean output signal for your amplifiers. Up to 6V in BLUETOOTH mode and up to 10V in AUX/MAIN mode.

MOSFET PWM Power Supply
The Pulse Width Modulated power supply is used to provide steady voltage from the vehicles or boats charging system which can vary under normal operating conditions

Marine Grade Conformal Coated PCB
Conformal coated circuit board resists damage and corrosion from the elements and water.

Specifications

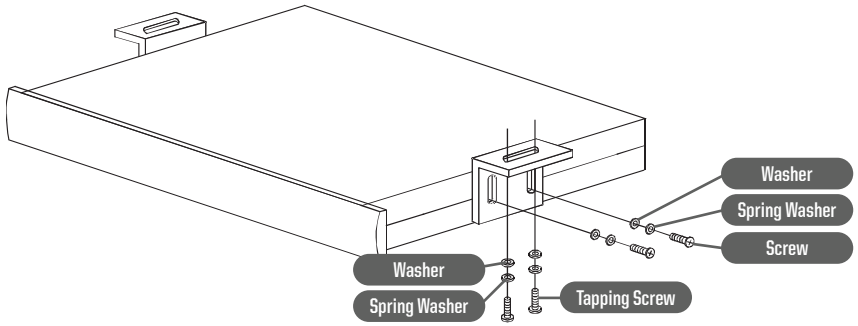
Frequency Response: 10Hz - 50kHz
Frequency EQ Center: 75Hz, 250Hz, 2kHz, 6kHz, 14.5kHz
Total Harmonic Distortion THD: 0.02%
Signal to Noise Ratio: >101dB
Inputs: Switchable, 3-source MAIN, AUX, Bluetooth
Equalization Boost/Cut: -/+18dB
Channel Separation: 85dB
Maximum Output Voltage: MAIN, AUX - 10Vrms @ 0.1%THD | Bluetooth - 6Vrms @0.1%THD
Power Supply: 11-15V DC negative ground
Fuse: 2 Amp (AGC type included)
Dimensions: Chassis 7"W x 1.0"H x 4" D (178mm x 25.4mm x 102mm)

Installation Instructions

Memphis Audio recommends all installations to be performed by an authorized Memphis Audio dealer. If you chose to proceed with your own installation, please read the following instructions.

- Turn OFF all stereo and other electrical devices prior to beginning the installation
- Disconnect the negative {-} battery lead from your systems battery.
- Locate all fuel lines, brake lines, oil lines and electrical cables when mapping out your installation.
- Check the mounting depth to make sure there is sufficient room to mount the EQ
- When connecting ground points, make certain that all paint is carefully scrapped away from the grounding location and that the contact is made with bare metal.
- Use a utility knife to trim away fabric from hole locations prior to drilling or cutting. Drilling directly into fabric can tear and damage fabric beyond the desired installation location.
- When running power cables through sheet metal, be certain to use grommets to insulate the lines from the metal edges of the sheet metal.
- If possible, use tubing through the grommets for extra protection.

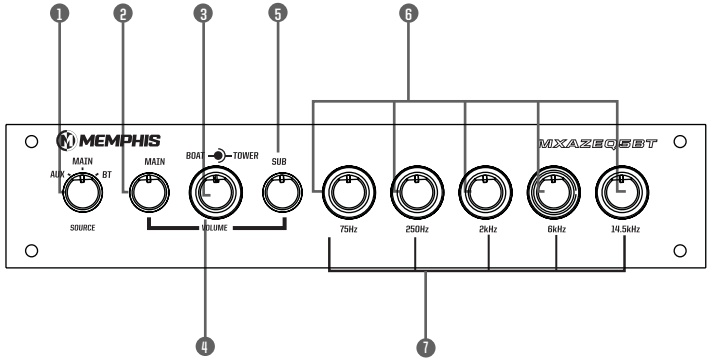
Mounting The Equalizer



There are two basic mounting options for your MXAZEQ5BT. One is to under-mount the unit beneath the dash panel using the supplied brackets as shown.

The second option is to flush mount the unit by cutting a hole through a suitable panel for an built-in look. If you chose the in-dash mounting method, be careful to cut the correct size hole for the best appearance. Also take care not to let your EQ or the cables interfere with other components in the mounting location.

Controls



1. Source Input Control Knob - This control will change the input source from MAIN, AUX and Bluetooth

2. Main Volume Control Knob - This control adjusts the output for BOAT, TOWER and SUB.

3. Boat Output Control Knob - This control adjusts the output of the BOAT zone.

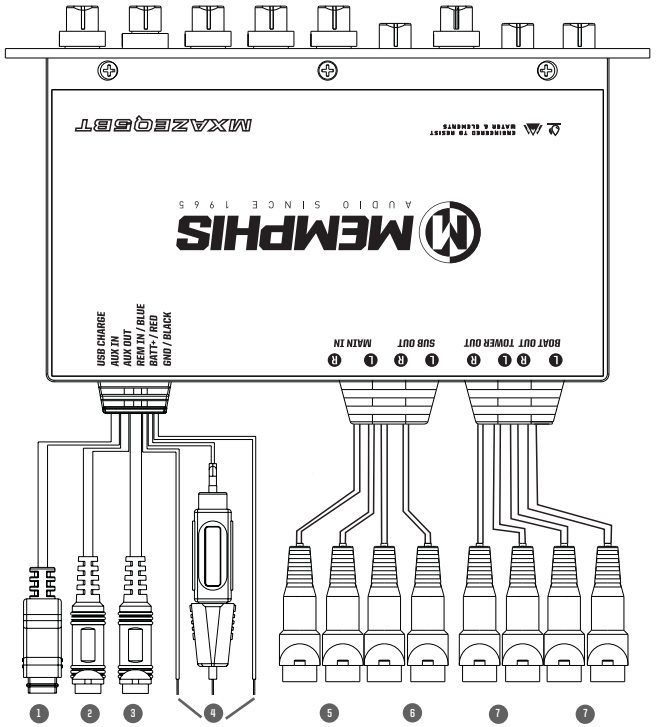
4. Tower Output Control Knob - This control adjusts the output of the TOWER zone.

5. Sub Output Control Knob - This control adjusts the output of the SUB zone.

6. Boat Equalizer Control Knobs - These controls will adjust the output at 75Hz, 250Hz, 2KHz, 6KHz, 14.5Hz from the BOAT output.

7. Tower Equalizer Control Knob - These controls will adjust the output at 75Hz, 250Hz, 2KHz, 6KHz, 14.5Hz from the TOWER output.

Rear Panel Connections



1. USB Charging - Connect your Bluetooth device to charge the battery

2. AUX Input - Connect this 3.5mm input to any second input source (DVD, etc.) This is selected from the input source control knob.

3. AUX Output - Connect this 3.5mm output to a second EQ, external amp or soundbar. This is a variable output controlled from the master volume control knob with no EQ adjustments.

4. POWER CONNECTIONS

RED - 12V DC (Constant) - Connect this lead to a 12 volt (+) positive constant source

BLACK - Ground - Connect this lead to a solid ground point

BLUE- Remote Turn On Input - Connect this lead to the remote output of your head unit's remote turn-on output. If there is no remote output lead or no head unit, connect this lead to a 12V DC switched power source. This lead turns the EQ on and off.

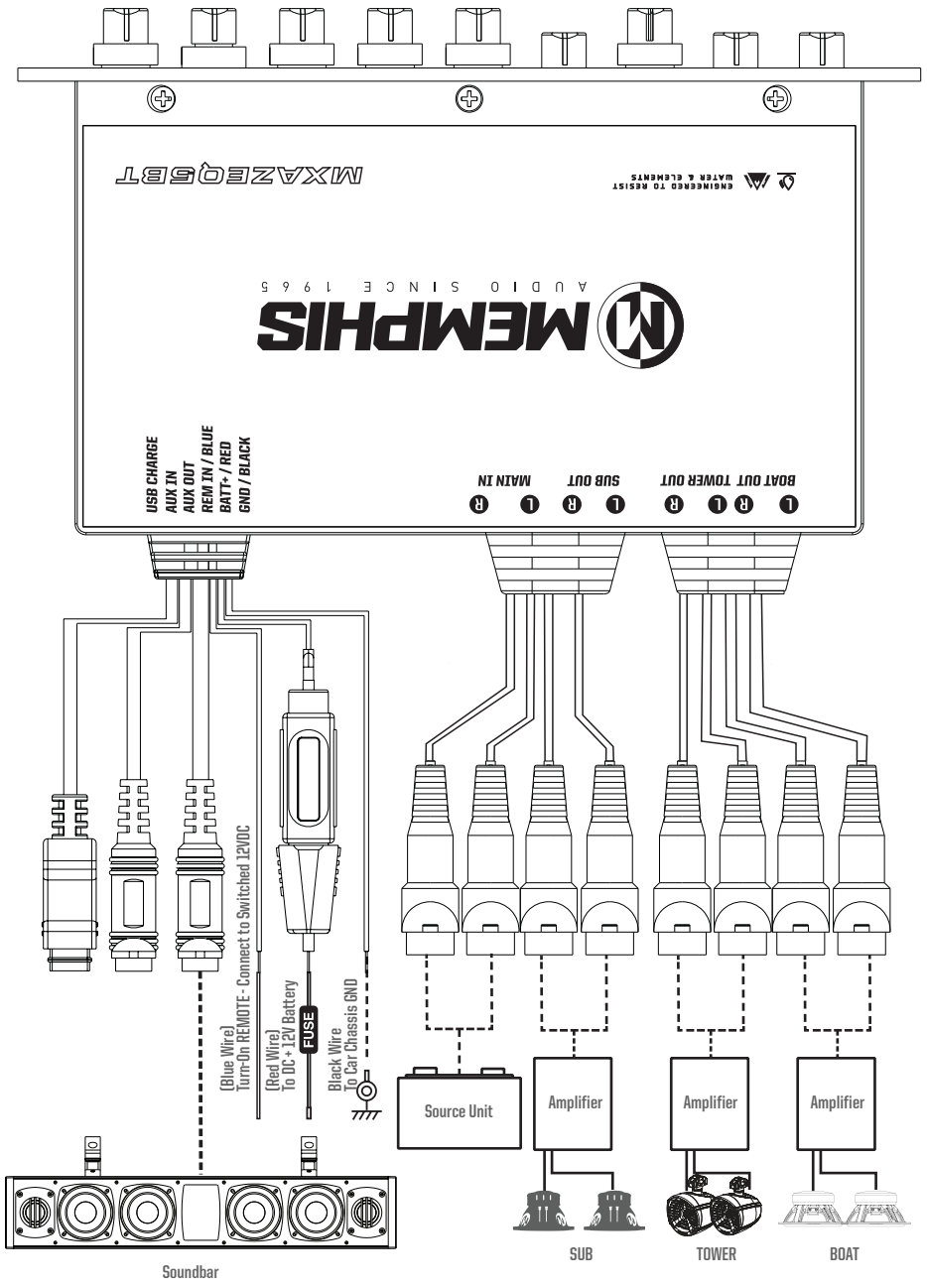
5. MAIN RCA Input - Connect this to your head unit's pre-amp output. This is selected from the input source control knob.

6. Sub RCA Output - Connect this to your mono amplifier's RCA input connections.

7. Tower RCA Output - Connect this to your tower amplifier's RCA input connections. This is controlled from the tower output control knob. Tower EQ controls (outer control knob) will adjust the tone controls from this output.

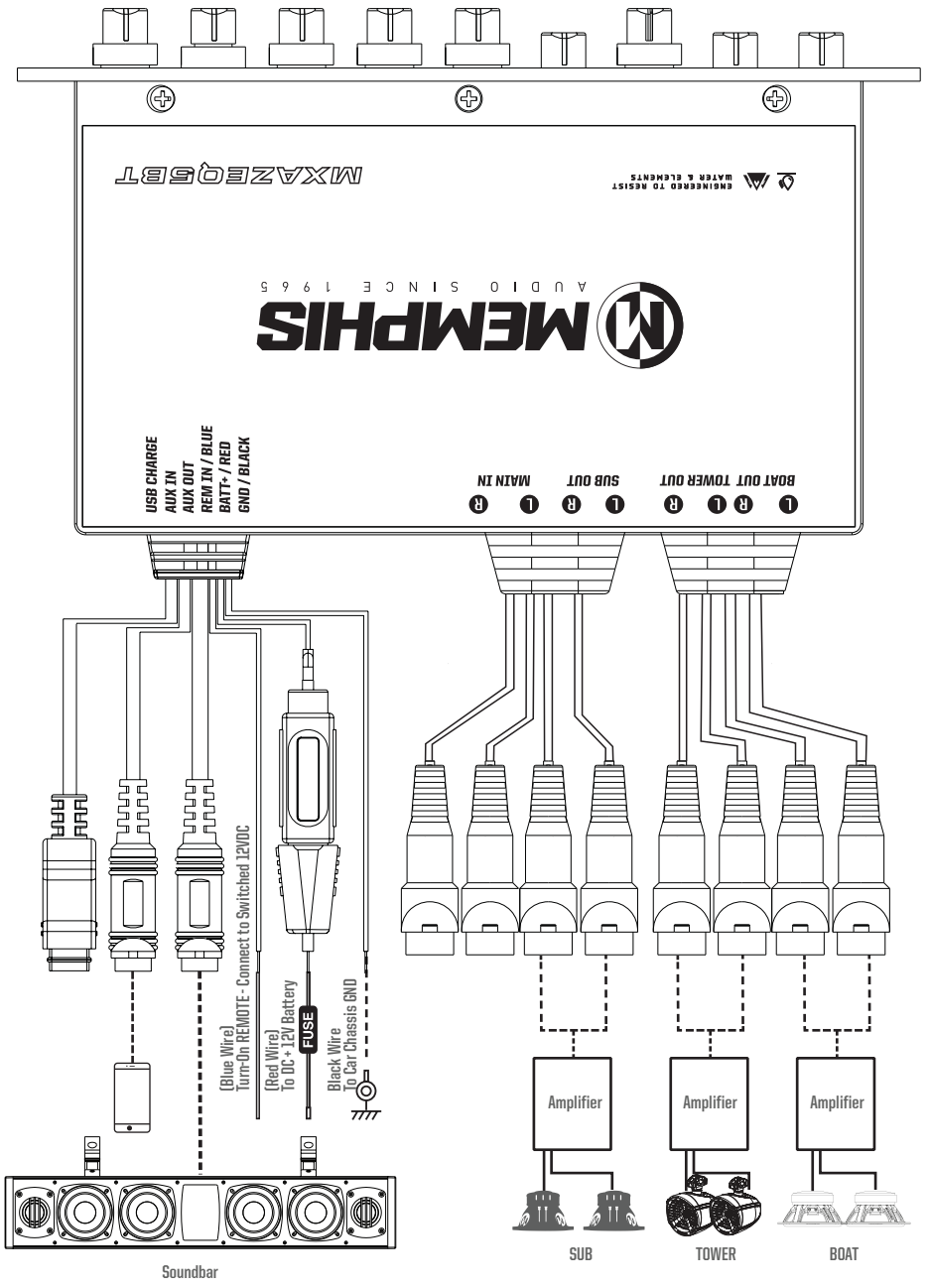
8. Boat RCA Output - Connect this to your boat amplifier's RCA input connections. This is controlled from the boat output control knob. Boat equalizer control (inner EQ knobs) will adjust the tone controls from this output.

Wiring Configurations Using Main Input



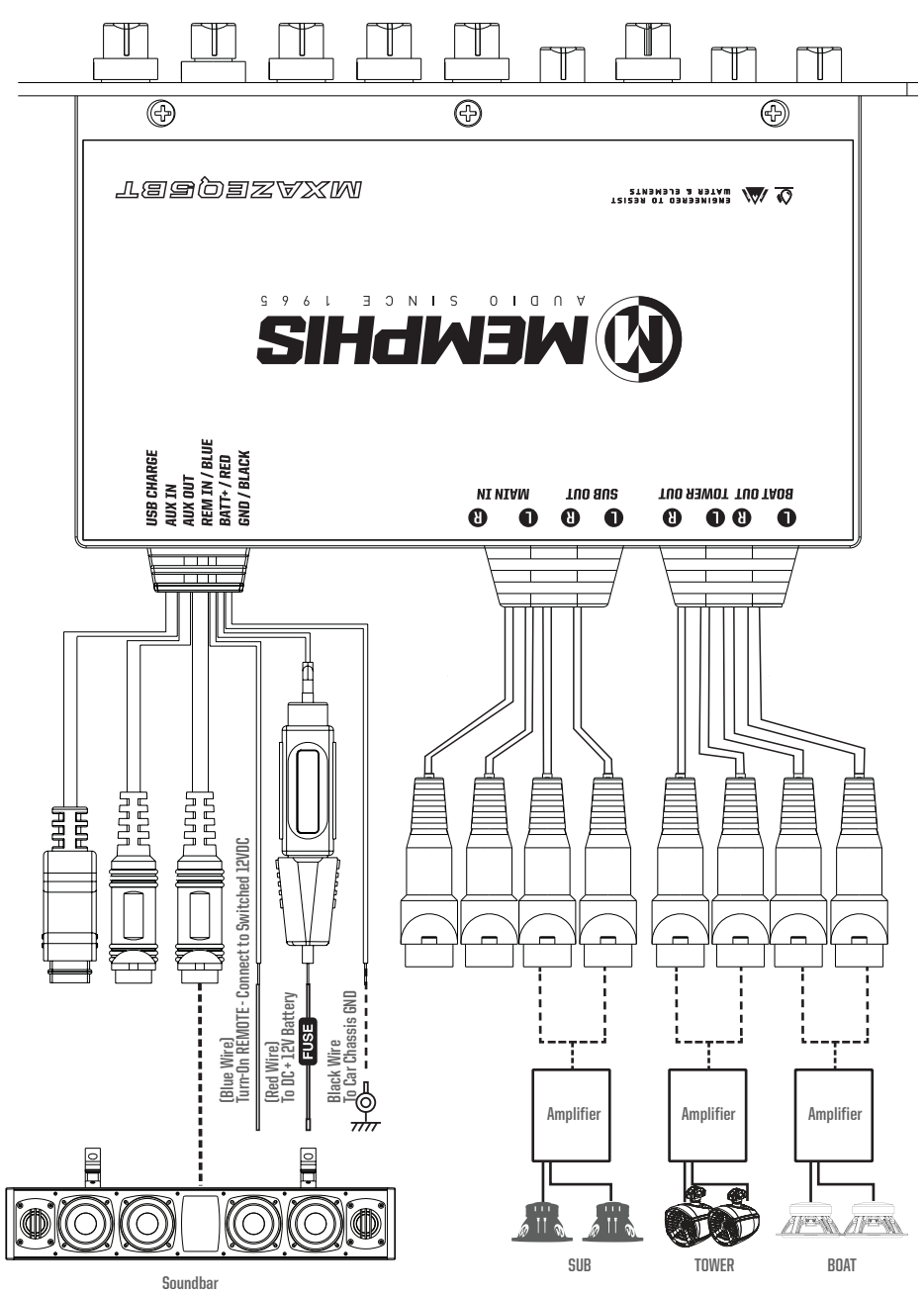
Set SOURCE INPUT Control Knob To MAIN

Wiring Configuration Using AUX Input



Set SOURCE INPUT Control Knob To AUX

Wiring Configuration Using Bluetooth Only



Set SOURCE INPUT Control Knob To BT (Bluetooth)

Bluetooth Pairing and Operation

1. Turn the source selector knob to BT (Bluetooth)

2. Open your devices Bluetooth settings. Search for MXAZEQ5BT and pair your device. Once paired you can stream audio to the MXAZEQ5BT.

3. You can either use the Bluetooth device or the MXAZEQ5BT to change tracks and control the master volume of your system.

4. There is no visual or audio conformation from the MXAZEQ5BT to indicate your device is paired. You must confirm this from your Bluetooth device.

5. There is no need to un-pair your device to listen to a different input source. Use the front panel source selector knob to change MAIN or AUX input.

Equalization Adjustment

Adjust the EQ to match your listening style. You can adjust different aspects of your sound until you reach the perfect blend to suit your listening style.

Equalizer Band Ranges

Each knob is essentially a tone control dedicated to a specific part of the audio spectrum from 20Hz to 20kHz. They can help your speakers match the environment in which they are being utilized. There are 5 knobs for BOAT and 5 knob for TOWER that allow you to adjust the EQ setting for each zone separately. Start with all nine knobs in the 12 o'clock position. Listen to a variety of types of music. Rotate each of the knobs individually. When rotating the knob you will notice the effect of the knobs on different parts of the audio spectrum. Use the knobs to dial in your sound to the perfect level.

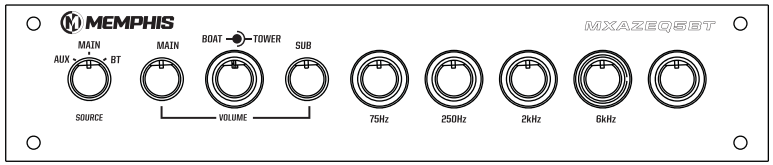
75Hz: Use this control sparingly. It can produce low bass punch that may force the speakers to reproduce sounds beyond their capability

250Hz: This controls frequencies above sub bass and below the midrange

2kHz: This range is responsible for musical instruments, vocal and midrange percussion.

6kHz: Controls the frequencies above midrange and below high range

14.5kHz: Controls the upper high range frequencies.



Troubleshooting

PROBLEM	SOLUTION
No Sound	1. Check Power and Remote Turn-on for the proper voltage 2. Check the ground connections 3. Check if the source knob is at the correct selection
Hiss	1. Turn down the amplifier gains 2. Adjust the source unit output 3. Check for kinked or faulty RCA interconnect cables
Distorting Speakers	1. Adjust the equalization levels 2. Lower the volume of the source unit 3. See your dealer
Amplifier Popping Noise or Turn-on and Turn-off Thump	1. Equalizer battery + must be connected to a constant 12VDC source 2. Check wiring for proper hook up of power and remote leads

Warranty

This products has a one year warranty from the date of purchase for defects in material or workmanship. 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.

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.

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.