MOJO PRO

MEMPHIS AUDIO SINCE 1965

MJP750.1
MJP1000.1
MJP1500.1
MJP2000.1
MJP3000.1
MJP800.4

DESIGNED AND DEVELOPED IN THE UNITED STATES*

MEMPHIS AUDIO SINCE 1965

MOJO PRO

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.

TIP Check out our full line of MOJO PRO speakers and subwoofers to create the ultimate audio experience in your vehicle.

FEATURES

- Extruded aluminum heatsink
- 12dB variable butterworth crossovers
- 3 EQ boost settings - 0,6,12dB (full range amps)
- Variable EQ bassboost (mono amps)
- Strapable (mono block amps)
- Variable subsonic filter (mono block amps)

	MJP800.4
RMS Power 4Ω	125W x 4
RMS Power 2Ω	200W x 4
Bridged Mono @ 4Ω	400W x 2
THD% 4Ω	<1%
Frequency Response	10Hz - 25kHz
Dimensions (in)	7.5 x 2 x 8.7
Rec. Amp Kit	4GKIT
Signal to Noise Ratio	80dB
Sensitivity	400mV-7V

	MJP750.1	MJP1000.1	MJP1500.1	MJP2000.1	MJP3000.1
RMS Power 4Ω	300W x 1	425W x 1	675W x 1	830W x 1	1275W x 1
RMS Power 2Ω	500W x 1	725W x 1	1050W x 1	1500W x 1	2100W x 1
RMS Power 1Ω	750W x 1	1000W x 1	1500W x 1	2000W x 1	3000W x 1
THD%	<1%	<1%	<1%	<1%	<1%
Frequency Response	11Hz - 200Hz	11Hz - 200Hz	11Hz - 200Hz	11Hz - 200Hz	11Hz - 200Hz
Dimensions (in)	7.5 x 2 x 7.9	7.5 x 2 x 9.5	7.5 x 2 x 11	7.5 x 2 x 13.2	7.5 x 2 x 16.8
Rec. Amp Kit	4GKIT	4GKIT	4GKIT	0GKIT	0GKIT
Signal to Noise Ratio	80dB	80dB	80dB	80dB	80dB
Sensitivity	200mV-6V	200mV-6V	200mV-6V	200mV-6V	200mV-6V

*Features and Specifications are subject to change without notice.

SERVICE / RETURNS

Please consult with your local authorized dealer if you experience issues with your unit. You may also contact Memphis Audio customer service at 800-489-2300 or email tech support directly at: techsupport@memphiscaraudio.com. Do not attempt to return your amplifier directly to us without first calling for a Return Authorization number. Units received without an accompanying Return Authorization number will be processed more slowly. Additionally, you must include a copy of your purchase receipt from an authorized dealer for consideration of in-warranty service, otherwise repair charges will apply. Units received without a receipt will be held for up to 30 days allowing us time to contact you and obtain a copy of the receipt. After 30 days all units will be returned to you unrepaired.

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.

Amplifiers are generally mounted in the hatch/trunk area of your car or SUV or behind the seat of most pick up trucks. Select a location that provides adequate ventilation. Avoid mounting the amplifier with fins facing down. Amplifier should be secured using the screws provided.

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.

Only One Channel Works:

- Confirm the speaker terminal strip connections are firmly connected.
- Check "balance" control on your signal source.
- If using RCA Low-Level inputs, reverse the input plugs at the amplifier. If the channel that is silent reverses position, the problem is in the source unit or connecting cable.

Weak Output

- Check input sensitivity control adjustment.

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.

Red LED is Illuminated

- Speaker or wire is shorted
- Amplifier has overheated due to improper ventilation

POWER SUPPLY CONNECTION

Install the fuse at the battery last!

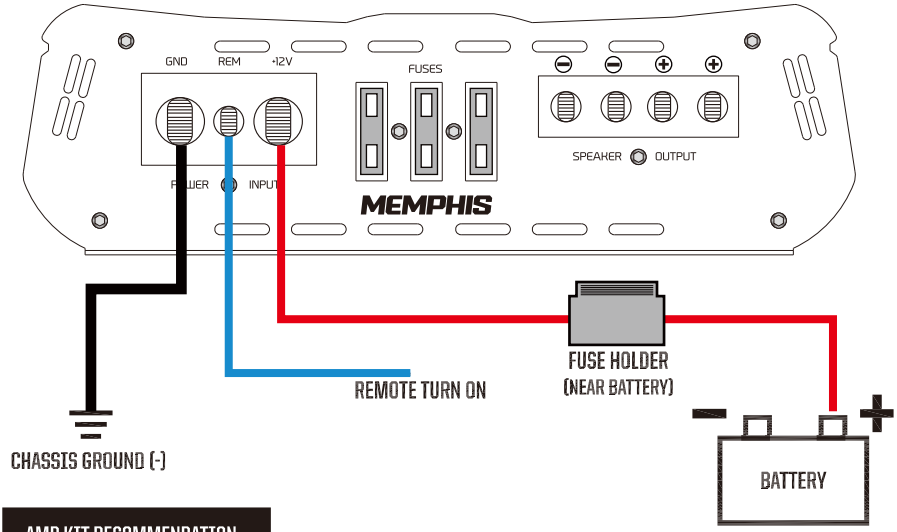
Use conventional stranded copper wire for all connections. Finish the ends of the wires at the amp and vehicle with proper size terminals. Poorly made connections and/or inadequate wire size will generate excessive heat and may lead to equipment failure.

12 Volt + Connection
Make the 12V+ connection directly at the positive battery post using the proper wire size and fuse listed below, The fuse should be installed within 18" of the battery. This fuse is vital to protecting the vehicle from damage in the case of a dead short.

Ground Connection:
Make ground connection directly to the chassis of the vehicle as close to the amp as possible. Make sure this connection is made with the same wire size as used for the 12 volt connection. Ensure that all dirt, grease, paint and coatings are removed prior to attaching the ground wire to chassis.

Remote Turn On
Remote turn on should be connected to the source unit's remote turn on lead or power antenna output wire. When using the power antenna wire, make certain it does not lose power when any source other than the radio is selected.

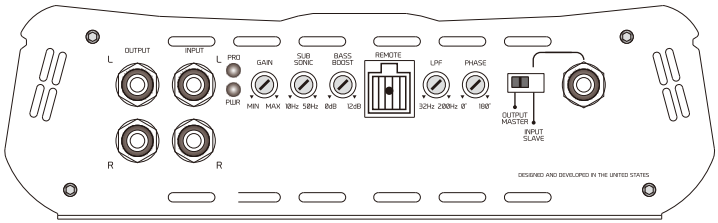
Power Connections



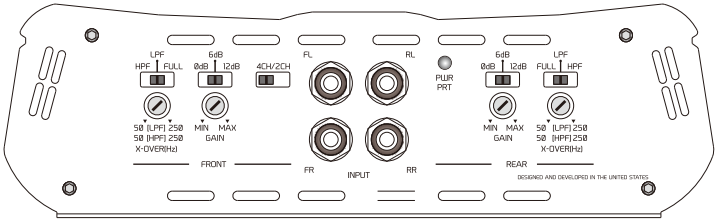
AMP KIT RECOMMENDATION:	
MJP750.1	4GKIT
MJP800.4	4GKIT
MJP1000.1	4GKIT
MJP1500.1	4GKIT
MJP2000.1	0GKIT
MJP3000.1	0GKIT

CONTROLS

MONO AMPLIFIERS: MJP3000.1 // MJP2000.1 // MJP1500.1 // MJP1000.1 // MJP750.1



FULL RANGE AMPLIFIER: MJP800.4



Always check your speaker load with a multi-meter before hooking up to the amplifier. MOJO Pro mono amplifiers are 1 ohm stable. Any Impedance (load) smaller than 1 ohm will damage the amplifier! Such damage is not covered under warranty, so pay strict attention to what connections are made to the amplifier.

Low Level Output: (MONO Amps) Use this output connection to feed the audio signal to additional amplifiers. Remote: (all models) The adjustment will increase/decrease the output level of the amplifier.

Gain

The gain control is NOT a volume control. The gain control adjusts the amount of signal required to drive the amplifier to full output. With the gain at full clockwise rotation, less signal voltage is required to drive the amp to full output. With the gain at full counter clockwise rotation, more signal voltage is required to drive the amp to full output. For optimal performance, set the gain control to minimum

High Pass Filter (HPF)

The high pass crossover/filter is designed to remove low frequency information from a speaker. This is generally used to protect smaller devices from trying to reproduce low frequency information that might damage them. The crossover frequency is adjustable from 50Hz to 250Hz and uses 12 dB per octave slope. To engage the HPF simply slide the switch to the position on the marked HPF. Crossover frequency selection is made by rotating the dial: clockwise raises the frequency, counter-clockwise lowers the frequency. Most mid-bass or midrange drivers should be set between 80 and 400 Hz depending on how high the subwoofer(s) plays. For mid-range drivers that are 5" or smaller we suggest setting the HPF to 120Hz. The HPF can also be combined with passive crossovers on a separate or coaxial speaker set to provide low frequency protection to the midrange driver, or to form band-pass filter for a midrange speaker already using a passive low-pass filter.

CONTROLS

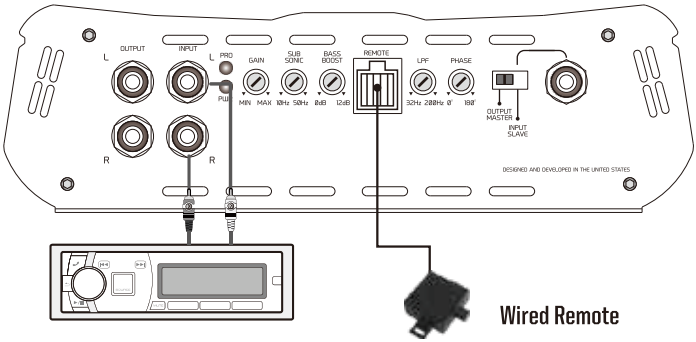
Low Pass Filter (LPF)
The Lowpass crossover/filter is designed to remove high frequency information from a speaker. This is generally used to prevent mid bass speakers or subwoofers from trying to reproduce mid and high frequency information that they are not designed to reproduce. The crossover frequency is adjustable from 50Hz to 250Hz and uses a 12dB per octave slope. Frequency selection is made by rotating the dial: clockwise raises the frequency and counter clockwise lowers the frequency. Most subwoofers should be set between 80Hz and 100Hz depending on how low the mid-bass or midrange drivers are capable of playing.

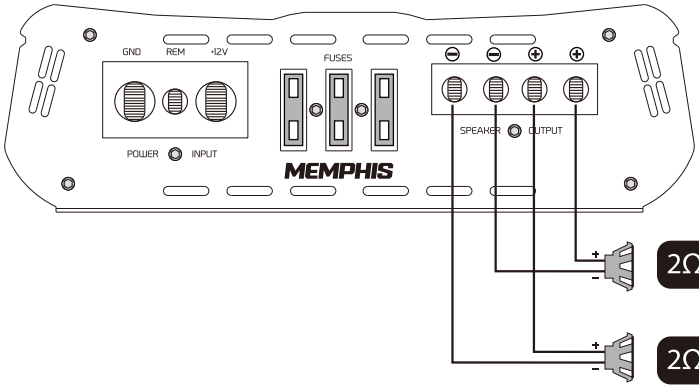
Bass Boost (40Hz)
Boost should be used with discretion, keeping in mind that electronically enhanced boost places an additional load on the amplifier and the speakers they are connected to. This control is fully variable from 0 - 12dB.

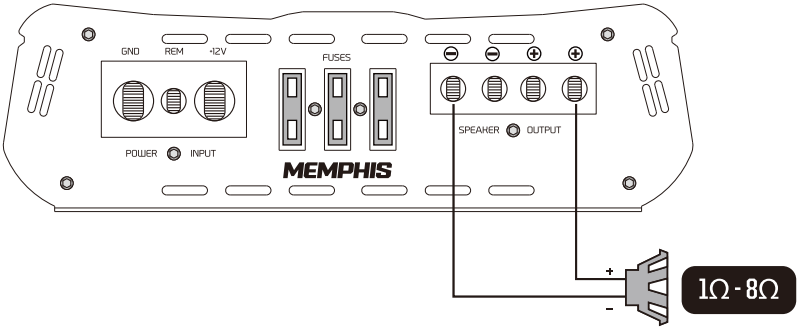
Subsonic Filter
This filter is fully variable from 10Hz-50Hz and removes unwanted frequencies below the frequency selection. This filter is most useful with subwoofers loaded in a ported enclosure, which helps prevent unloading (rapid loss of power handling below the port tuned frequency).

MONO AMPLIFIERS: SUBWOOFER CONNECTION

MJP3000.1 // MJP2000.1 //MJP1500.1 // MJP1000.1 // MJP750.1

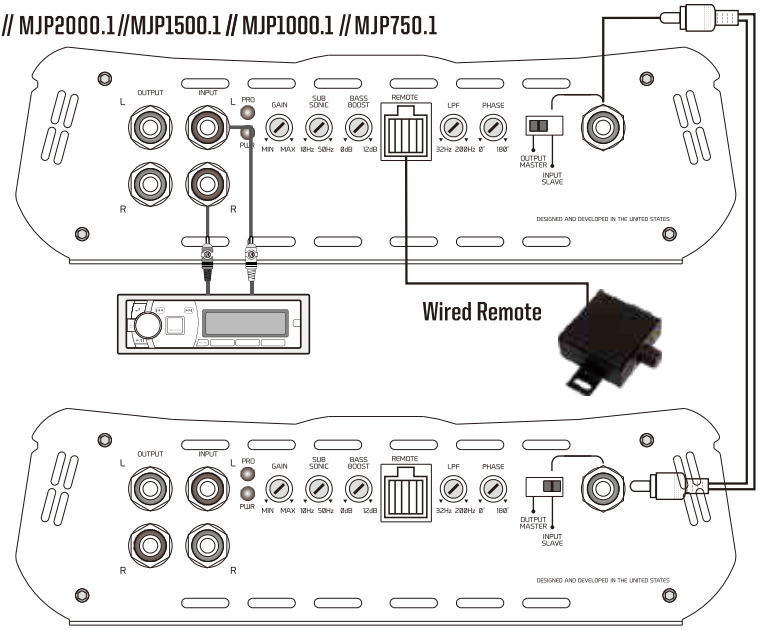




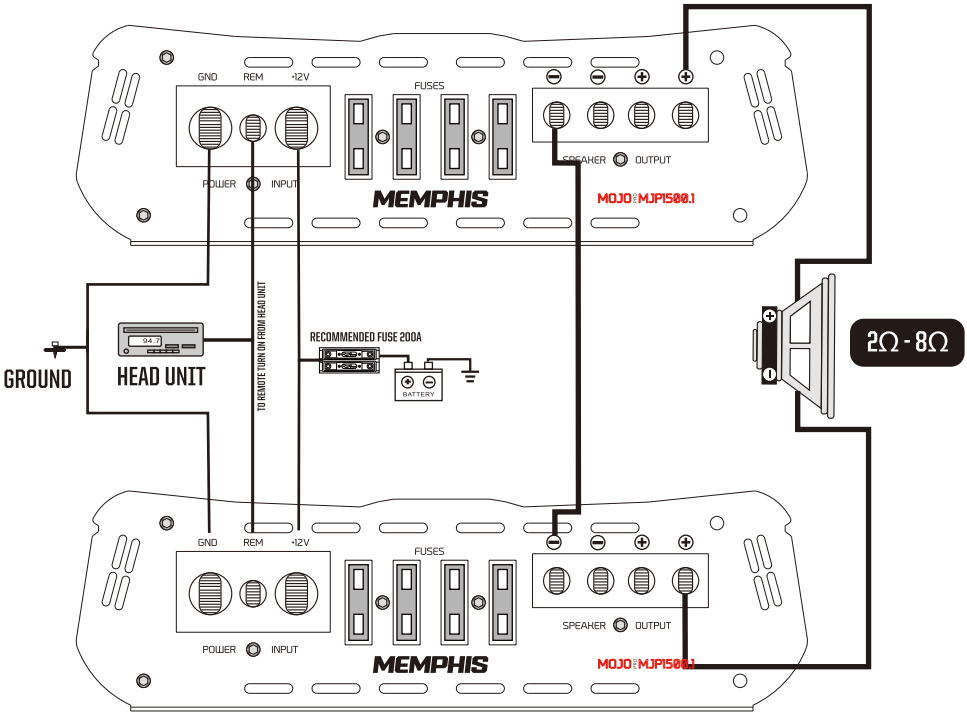


DUAL AMPLIFIERS STRAPPED INPUT CONNECTIONS

MJP3000.1 // MJP2000.1 //MJP1500.1 // MJP1000.1 // MJP750.1

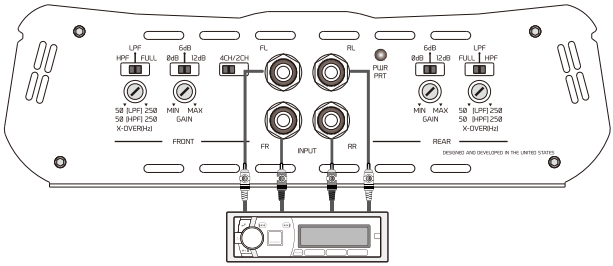


DUAL AMPLIFIERS STRAPPED OUTPUT CONNECTIONS



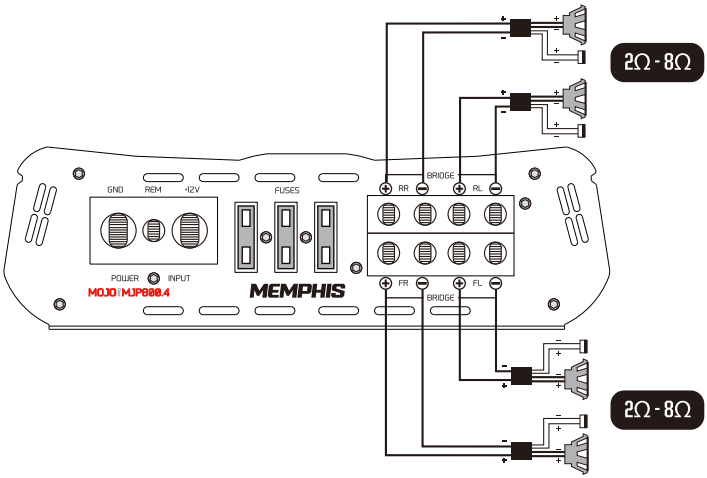
FULL RANGE AMPLIFIER INPUT CONNECTION

MJP800.4



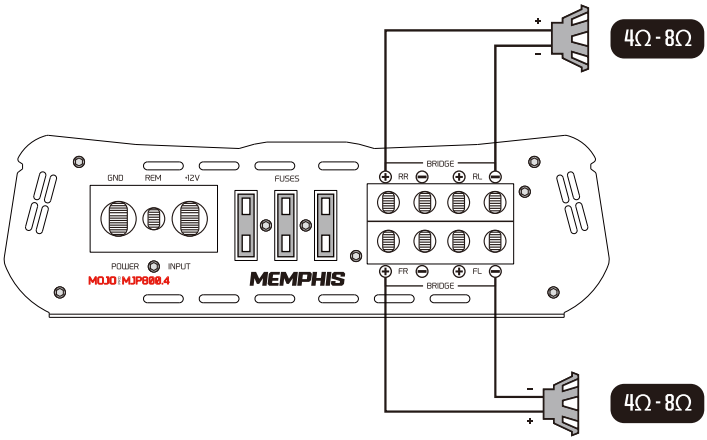
FULL RANGE AMPLIFIER SPEAKER WIRING

MJP800.4



FULL RANGE AMPLIFIER BRIDGED SPEAKER WIRING

MJP800.4



TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
NO OUTPUT	Low or no remote turn on input	Check remote turn-on voltage output on amplifier and correct as needed
	Fuse Blown	Check power wire integrity and reverse polarity; repair as needed and replace fuse
	Power wires not connected	Check power wire connections; repair/replace as needed
	Audio input not connector or no output from source	Check input connection and signal integrity; repair/replace as needed
	Speaker wire not connected	Check speaker wires an repair replace as needed.
AUDIO CYCLES ON/OFF	Speakers are blown	Check system with known working speakers and repair/replace speakers as needed
	Thermal protection engages when amplifier heat sink temperatures exceed 194°F	Make sure there is proper ventilation for amplifier and improve ventilation as needed
	Loose or poor audio input	Check input connections and repair/replace as needed
DISTORTED OUTPUT	Amplifier level sensitivity set too high, exceeding maximum output capability of amplifier	Reset gain
	Impedance load to amplifier too low	Check speaker impedance load, if below 2Ω stereo or 4Ω mono, rewire speakers to achieve a higher impedance
	Shorted speaker wires	Check speaker wire connections and repair/replace as needed
	Speaker incorrectly connects to amplifier properly	Check speaker wiring and repair/replace as needed.
	Speakers are blown	Check system with known working speaker and repair/replace as needed.
POOR BASS RESPONSE	Speaker polarity may be reversed or wired incorrectly causing cancellation at low frequencies	Check speaker polarity and repair as needed
	Crossover set incorrectly	Reset crossover

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
BATTERY FUSE BLOWING	Impedance load to amplifier is too low	Check speaker impedance load. If below 2Ω Stereo or 4Ω mono, rewire speakers to achieve higher impedance
	short in power wire or incorrect power connection or wire	Check power and ground connections and repair as needed
	Fuse used is smaller than recommend	Replace with proper fuse size
		Check speaker impedance load, if below 2Ω stereo or 4Ω mono, rewire speakers to achieve a higher impedance and replace with recommended fuses size.
AMPLIFIER FUSE BLOWING	Too much current being drawn	Check speaker impedance load. If below 2Ω stereo or 4Ω mono, rewire speakers to achieve a higher impedance and replace with recommended fuse size Check power and ground connections. Repair as needed
	Fuse used is smaller than recommended	Replace with proper fuse size.

Memphis Audio Limited Warranty

This product has a one year warranty from the date of purchase for defects in material or workmanship. This warranty will be extended to 2 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.

CONTACT INFO

122 GAYOSO AVE
MEMPHIS, TN USA 38101

TECH SUPPORT
800-903-6979

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