



MR-2500.1
MR-160.4



www.americanbassusa.com

HIGH PERFORMANCE MARINE AMPLIFIER
www.americanbassusa.com

INTRODUCTION

Thanks you for purchasing American bass Marine amplifiers for your car audio system. Marine amplifiers are engineered and manufactured to ensure the years of uncompromised musical enjoyment, high performance and reliability. Marine amplifiers are high power audio amplifiers, so very loud music can cause hearing loss and intended for using in vehicles with 12 Volt, Negative ground electrical systems. Attempting to connect or operate the amplifiers in another type of electrical system may cause damage to the amplifier or the electrical system. If you like to install the amplifiers by yourself, Pls carefully read whole manual and follow.

FEATURES

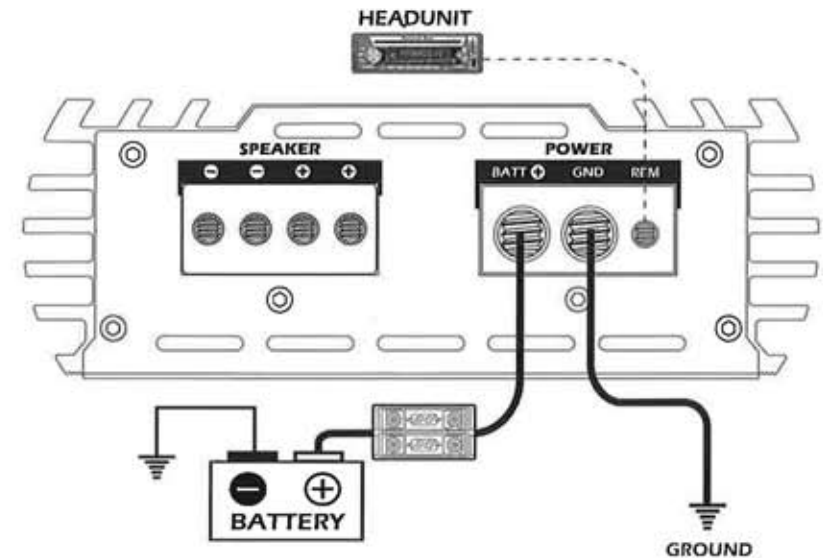
- Digital mono block amplifier
- Compact sized dimensions
- 1 ohm mono load for digital mono
- 2 ohm stereo stable 4channels
- Variable low pass filter
- Variable subsonic filter
- 6dB / 12dB selectable bass boost
- Wired remote control
- 4 ways protection circuit (thermal, voltage, speaker short and DC)
- Double sided printed circuit board

SPECIFICATIONS

	MARINE AMPLIFIER	MARINE AMPLIFIER
Rated power output	MR-2500.1	MR-160.4
-MAX power @ 1 ohm	2500Watts	na
-MAX power @ 2ohm		150Watts x 4ch
Working impedance	1ohm	2ohm stereo
Input Sensitivity	6V ~ 0.2V	6V ~ 0.2V
Variable High Pass Filter	na	50Hz ~ 5KHz
Variable Low Pass Filter	50Hz ~ 220Hz	50Hz ~ 500Hz
Variable Subsonic Filter	Off ~ 50Hz	na
Variable Bass Boost	6dB / 12dB	na
Frequency Response	20~250Hz	20~20KHz
Signal to Noise Ratio	85 <	105 <
Efficiency @ 4ohm	Over 90%	Over 65%
THD @ 4ohm	< 0.1%	< 0.1%
Damping Factor	150 <	150 <
Fuse Rating	80A	40A
Dimensions (L inches)	9.716 inches	11.417 inches
6.496 W x 2.244 H inches		

All features are subject to change in the continuing effort to improve the products without notice.

POWER CONNECTIONS



⚠ Caution

MR-2500.1 digital monoblock amplifier is not equipped with internal fuse in itself. Make sure you install in-line fuse holder from the Positive (+) terminal of battery. MR-160.4 is equipped with fuse.

+12V Power

Connect the +12V terminal of the amplifier to the ⊕ terminal of the battery using the same diameter as the ground cable, Making sure you install in-line fuse holder, approximately 300 or 400 mm from the ⊕ terminal of battery, making sure that there is no fuse in the battery holder

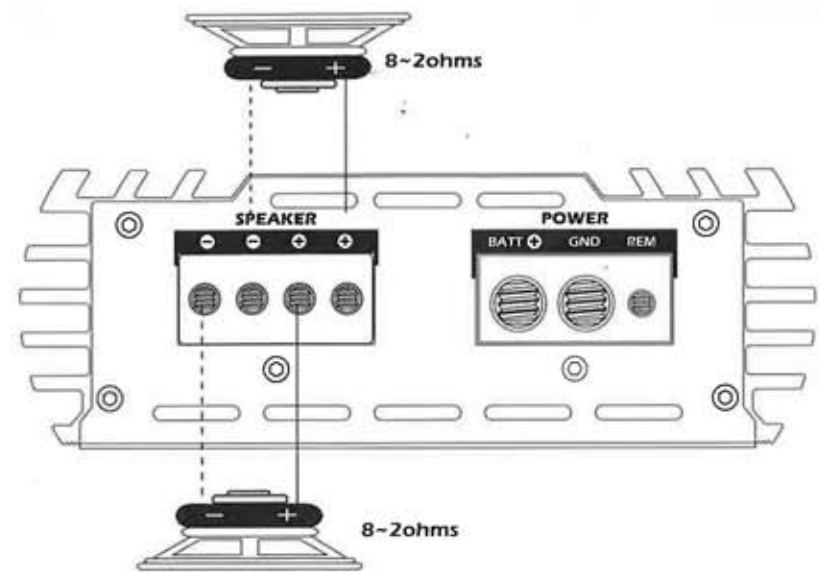
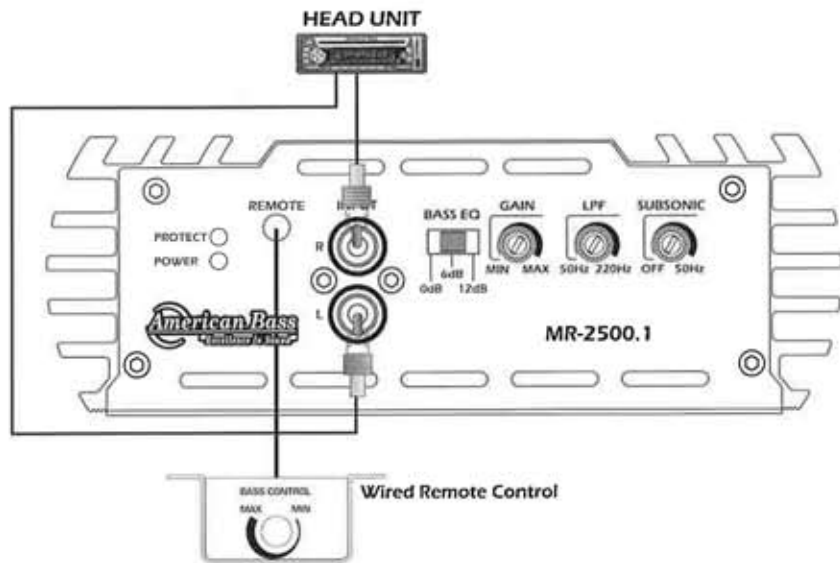
GROUND

Disconnect the battery and connect the GND (ground) terminal to the car's chassis. Keep this cable as short as possible (not longer than 20 inches or less). Making sure that the connection with the chassis is rust free and clear of paint or grime.

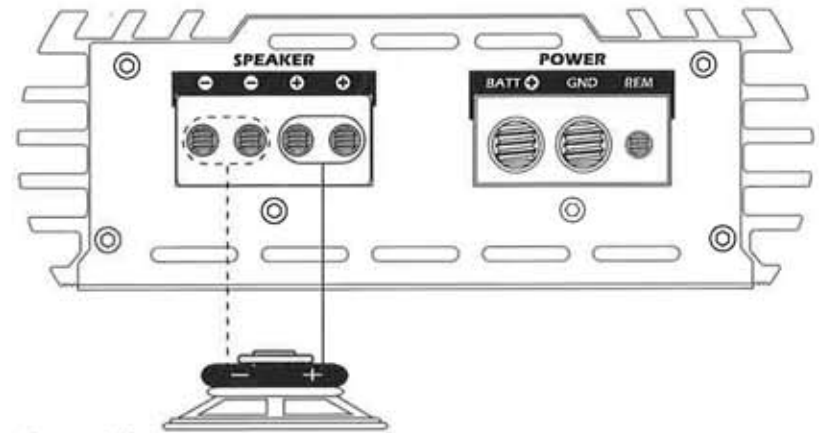
REMOTE

Connect the REM terminal of the amplifier to the power antenna terminal in the car ignition switch using 12 or 16 ga. electrical wire.

DIGITAL MONOBLOCK RCA INPUT CONNECTION

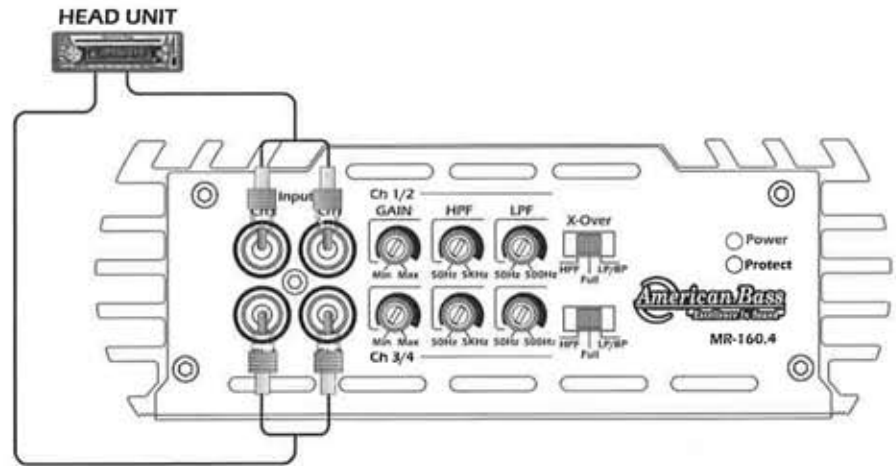


DIGITAL MONOBLOCK SPEAKER CONNECTIONS



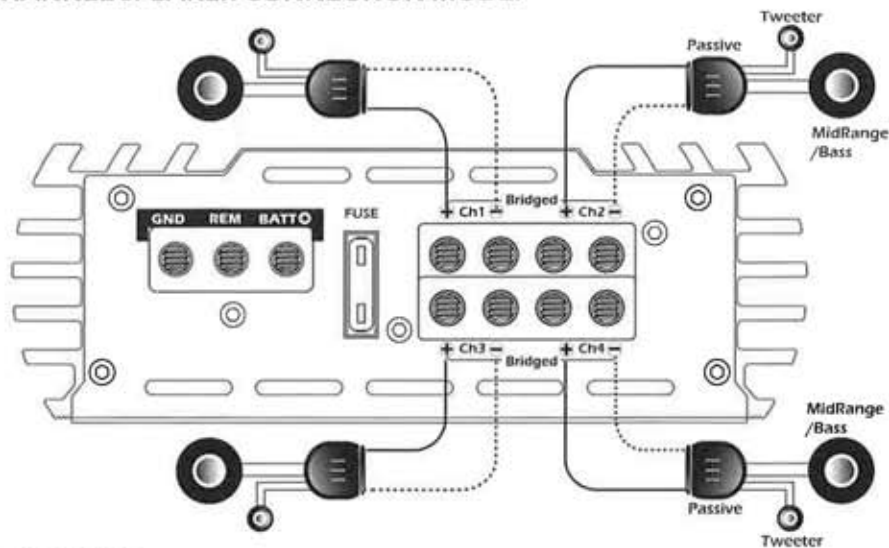
Caution !!
 VFL-HYBRID digital amplifiers' minimum working impedance is 1ohm

MR-160.4 RCA CONNECTION



MR-160.4 SPEAKER CONNECTIONS

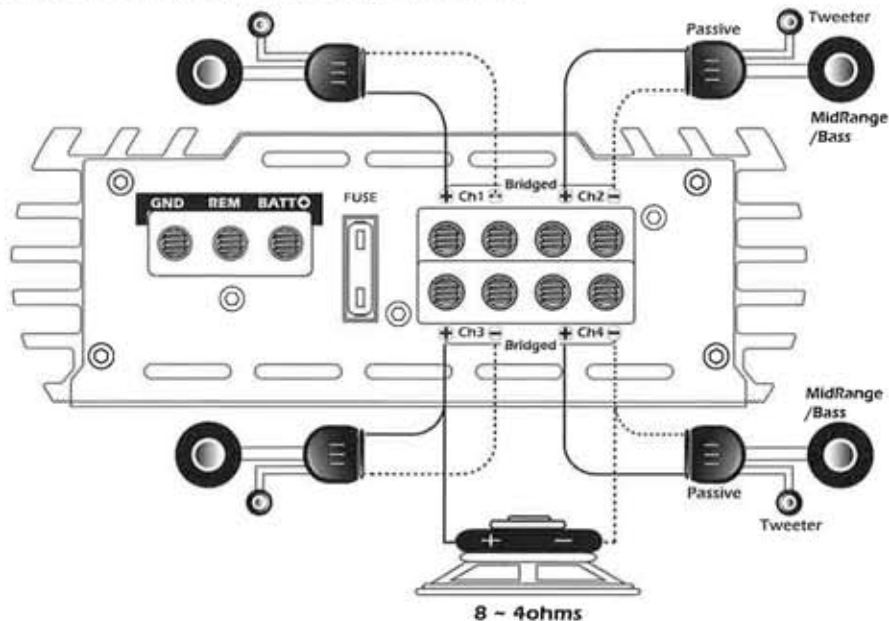
4CHANNEL SPEAKER CONNECTION MODE.



⚠ Caution !!

MR-160.4 minimum working impedance is 2ohm stereo or 4ohm mono.

5CHANNEL SPEAKER CONNECTION MODE.



TROUBLE SHOOTING

MARINE amplifiers have the protection features to prevent any damages from misuse or faulty conditions.

If MARINE amplifiers sense excessive heat, short circuited speakers DC, or voltage the protection indicator will light, and the system will be turned off.

In order to check the problem, you should turn all levels down and all power off and carefully check the installation for wiring mistakes or short.

If MARINE amplifiers shuts down due to excessive heat, They will be working later when it is cooled down

Before removing your amplifier, refer to the list below and follow the suggested procedures.

NO OUTPUT

1. Check remote turn-on voltage at amplifier and headunit, when remote turn-on voltage is low or no turn-on voltage, there is no sound.
2. Check fuses at the battery side or external fuses and all wire connections.
3. Check RCA Input is properly connected.

AMPLIFIER SHUT DOWN (PROTECTION)

1. Please check POWER, GND and REMOTE wire connection and other wires properly connected.
2. When DC over 4V come into the amplifiers, amplifiers is DC protected. Pls check whether amplifiers work after removing RCA-Input. If amplifier work, then check DC by checking RCA-Input. When DC is over 4V at input, try by replacing head-unit or source.
3. When amplifier is over-heated, amplifier goes into the thermal protection. Amplifier will be back after cooling down little bit. Please install amplifier in better ventilation and make it cool.
4. MR-2500.1 digital monoblock have minimum working impedance as 1ohm. MR-160.4 minimum working impedance is 2ohm stereo or 4ohm mono.
5. MARINE amplifiers working voltage is 11~14.4Volts.
6. Make sure chassis and remote use same GROUND.

DISTORTION & NOISE

1. Please readjust amplifier input level which is printed on endplate.
2. Make sure good ground contact of amplifier or headunit.
3. Use sufficiently shielded RCA interconnects and good RCA routing.
4. Check all ground connections of all other audio equipments.

POOR BASS RESPONSE

1. Check speaker wiring and reverse polarity.