

OWNERS MANUAL

Professional Car Audio



MBA-105.4AB MBA-75.4AB MBA-110.4D MBA-400.4D MBA-700.1D
MBA-2000.1D MBA-3000.1D MBA-5000.1D MBA-8000.1D

- We greatly appreciate your purchase of the unit.
- Be sure to take maximum advantage of all the unit has to offer, read these instructions carefully and set properly. Be sure to keep this manual for future reference, should any questions or problems arise.

WARNING

High powered audio systems in a vehicle are capable of generating "Live Concert" high levels of sound pressure. Continued exposure to excessively high volume sound levels may cause hearing loss or damage. Also, operation of a motor vehicle while listening to audio equipment at high volume levels may impair your ability to hear external sounds such as; horns, warning signals, or emergency vehicles, thus constituting to a potential traffic hazard. In the interest of safety, Consumer Electronics recommends listening at lower volume levels while driving.

Before beginning the installation, consider the following:

- a. If you plan to expand your system by adding other components in the future, ensure adequate space is left, and cooling requirements are met.
- b. Are your components matched? The peak power rating of your speakers must be equal or greater than the Amplifier's. They also must be 2-8 Ohms impedance (This information is normally printed on the speaker magnet).
- c. Consider both the length of your leads, and routing when determining the mounting location. Pre-Amp input Jacks require a length of high quality shielded male to male RCA patch cord.

MOUNTING YOUR AMPLIFIER

The mounting position of your Amplifier will have a great effect on its ability to dissipate the heat generated during normal operation. It has ample heat sink for heat dissipation, and also designed with a thermal shut-down (for heat protection) circuit, making air to be directed over the cooling fins will improve heat dissipation dramatically. DO NOT enclose the amplifier in a small box of cover it so that air cannot flow around fins.

Temperatures in car trunks have been measured as high as 175°F (80°C) in the summer time. since the thermal shut-down point for the Amplifier is 185°F (85°C) it is easy to see that it must be mounted for maximum cooling capability. To achieve maximum advantage of convection air flow in an enclosed trunk, mount the amplifier in a vertical position, on a vertical surface.

Cooling requirements are considerably relaxed when mounting inside the passenger compartment since the driver will not often allow temperatures to reach a critical point. Floor mounting under the seat is usually satisfactory as long as there is at least 1 inch (2cm) above the Amplifier's fins for ventilation.

- a. Select a suitable location that is convenient for mounting, is accessible for wiring, and has ample room for air circulation and cooling.
- b. Use the amplifier as a template to mark the mounting holes. Remove the Amplifier and drill 4 holes. use extreme caution, inspect underneath surface before drilling.
- c. Secure the Amplifier using the screws provided.

TROUBLE SHOOTING GUIDE

This section provides you with a catalog of amplifier symptoms and their probable causes and solutions. Before you consult this listing, make sure the vehicle's electrical system is working properly by verifying that other electrical items (e. g. headlights, windows, etc.) Still function correctly.

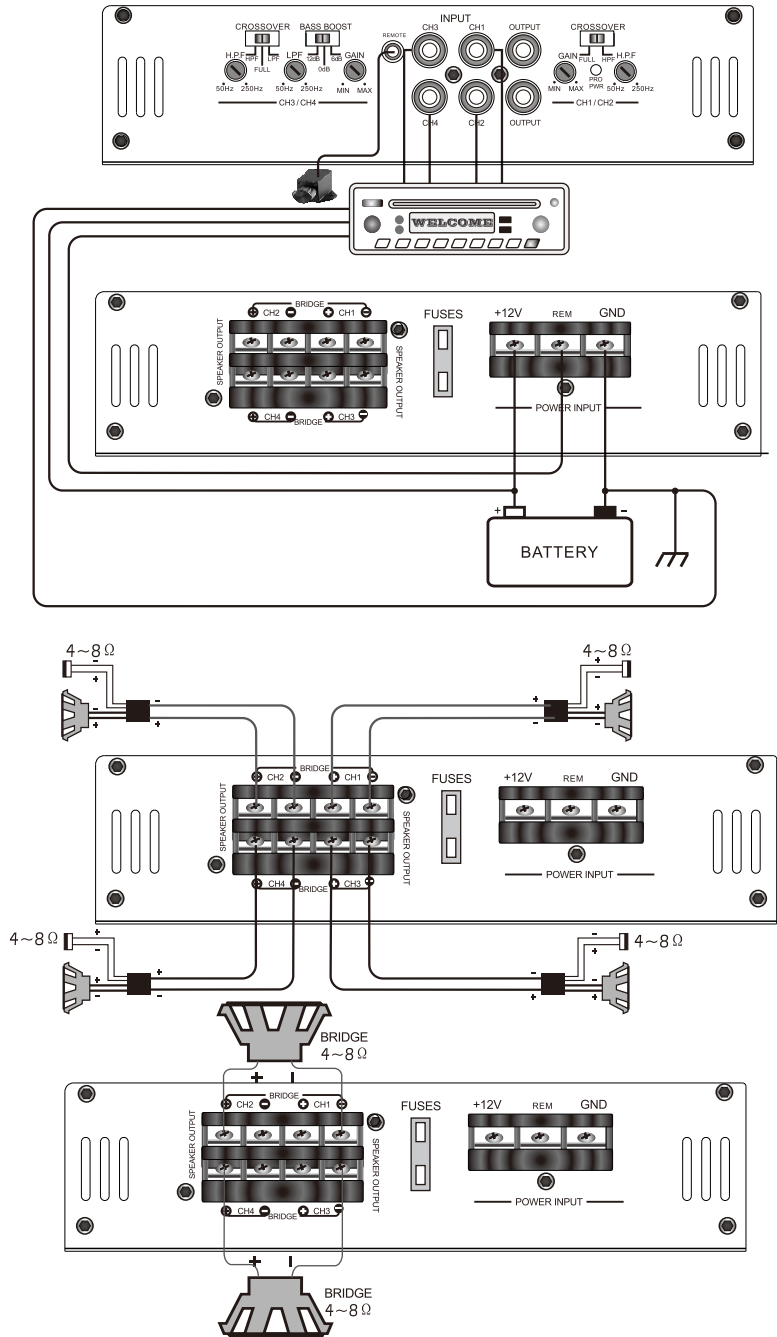
SYMPTOM	PROBABLE CAUSE	SOLUTION
No Audio	Low or N. C Remote Turn-on connections	Check remote turn-on voltage at amp and head unit
	Blown Fuse Power Wires not connected	Replace with new fuse Check butt splices or solder joints Check ground and battery connections
Distorted Audio	Blown or no speakers connected	Use VOM or DVM to measure speaker coil impedance; check speaker wiring connections
	Input Sensitivity not set properly or damaged speaker cones	See adjustment procedure and check each step; Inspect each speaker for damage and repair or replace suspected component Refer to head unit owner's manual
Audio Level Low	Low turn-on voltage	
	Mute circuit on head unit is on.	Check electrical system for low voltage; Check ground connection
Audio Lacks	Speakers wired with wrong polarity, causing cancellation of bass frequencies	Check polarity of wires from amplifiers to each speaker as defined by the system design Check battery voltage at amplifier during operation
External Fuse Blowing	Incorrect wiring or short circuit	Refer to electrical installation and check each installation step
Whining noise on audio with engine running	Amplifier is picking up alternator noise	Install an in-line noise filter on the head unit's power wire; Check alternator routing diodes or voltage regulator for proper operation. Check all grounds, battery voltage, and RCA cables
Ticking noise on audio with engine running	Amplifier is picking up radiated spark noise	Check RCA audio cable; Install an in-line noise filter on the head unit's power wire. Check spark plug wires.

SPECIFICATIONS

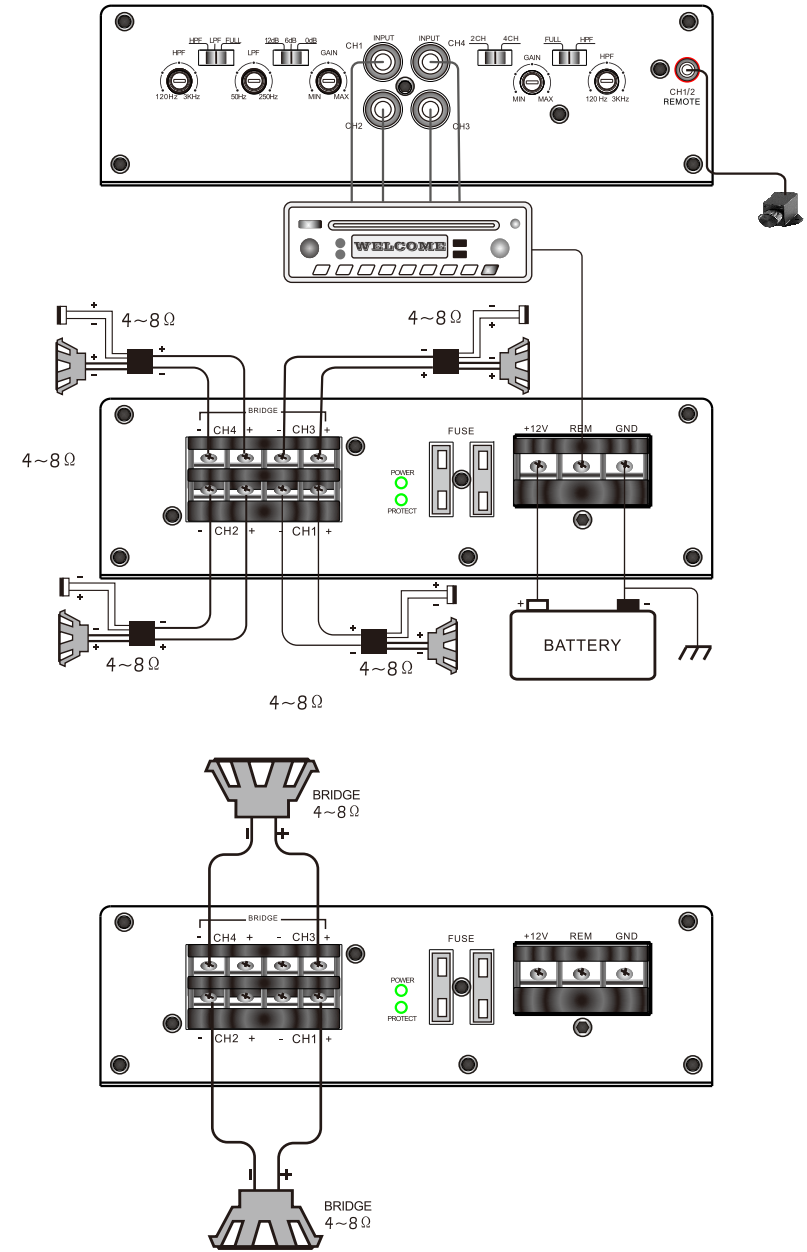
MODEL	MBA-105.4AB	MBA-75.4AB	MBA-400.4D	MBA-2000.1D		MBA-110.4D	MBA-700.1D	MBA-3000.1DV2	MBA-5000.1DV2	MBA-8000.1DV2
Supply Voltage	9-16V	9-16V	9-16V	9-16V		9-16V	9-16V	9-16V	9-16V	9-16V
Rms Watt @ 4Ohm	105Wx4	75Wx4	400Wx4	800Wx1		110Wx4	280Wx1	1500W	2100W	3400W
Rms Watt @ 2Ohm	125Wx4	100Wx4	580Wx4	1350Wx1		150Wx4	450Wx1	2100W	3600W	5800W
Rms Watt @ 1Ohm	/	/	/	2000Wx1		/	700Wx1	3000W	5000W	8000W
Bridge @4ohm	250Wx2	200Wx2	1160Wx2	/		300Wx2	/	/	/	/
Frequency Response	20HZ~36KHZ	20HZ~36KHZ	10HZ~45KHZ	50Hz-250Hz		10HZ~45KHZ	50Hz-250Hz	20HZ~36KHZ	20HZ~36KHZ	20HZ~36KHZ
Signal Noise Ratio	≥85dB	≥83dB	≥95dB	≥95dB		≥95dB	≥95dB	>90dB	>90dB	>90dB
Input Sensitivity	0.2V-6V	0.2V-6V	0.25V-6V	0.25V-6V		0.25V-6V	0.25V-6V	0.3-6V	0.3-6V	0.3-6V
T.H.D.	≤0.05%	≤0.05%	≤0.05%	≤0.2%		≤0.05%	≤0.2%	≤0.3%	≤0.3%	≤0.3%
Low Pass Freq.	50Hz-250Hz	50Hz-250Hz	50Hz-250Hz	35Hz-250Hz		50Hz-250Hz	35Hz-250Hz	80Hz~20KHz	80Hz~20KHz	80Hz~20KHz
High Pass Freq.	120Hz~3KHz	120Hz~3KHz	10Hz~250Hz	10Hz~250Hz		10Hz~250Hz	10Hz~250Hz	15Hz~80Hz	15Hz~80Hz	15Hz~80Hz
Bass Boost	0-12dB	0-12dB	12dB	12dB		12dB	12dB	49Hz	49Hz	49Hz

All specifications are with 14.4 volts DC.

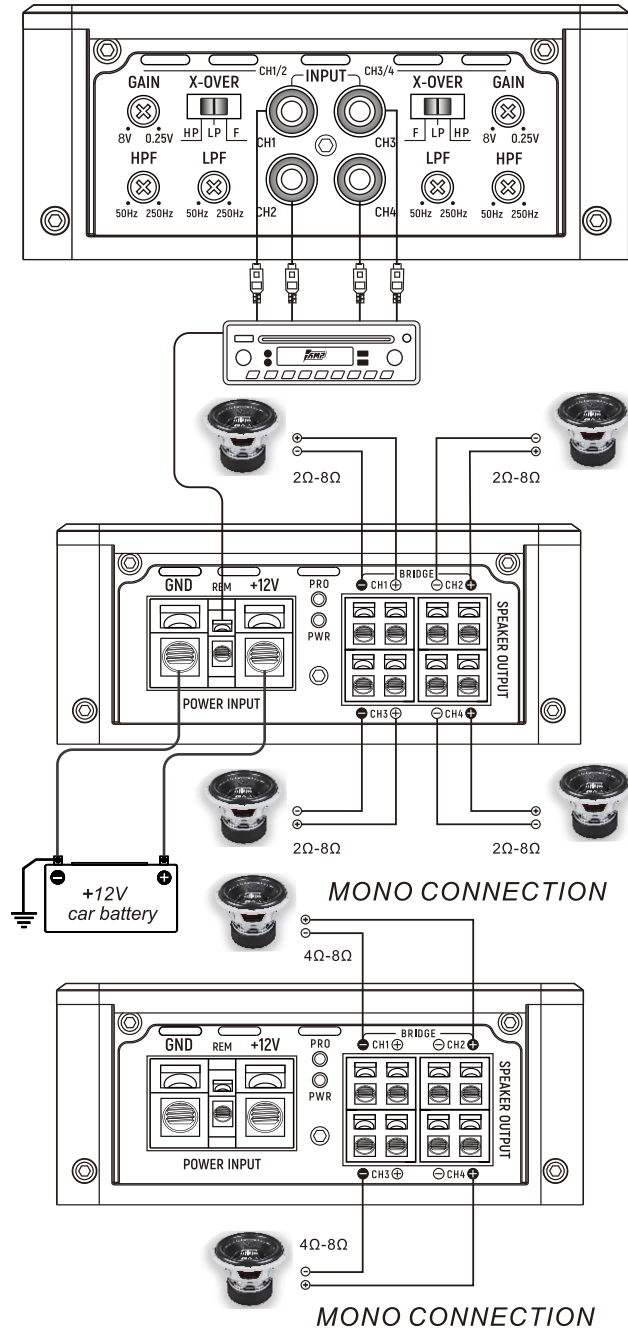
MBA-75.4AB



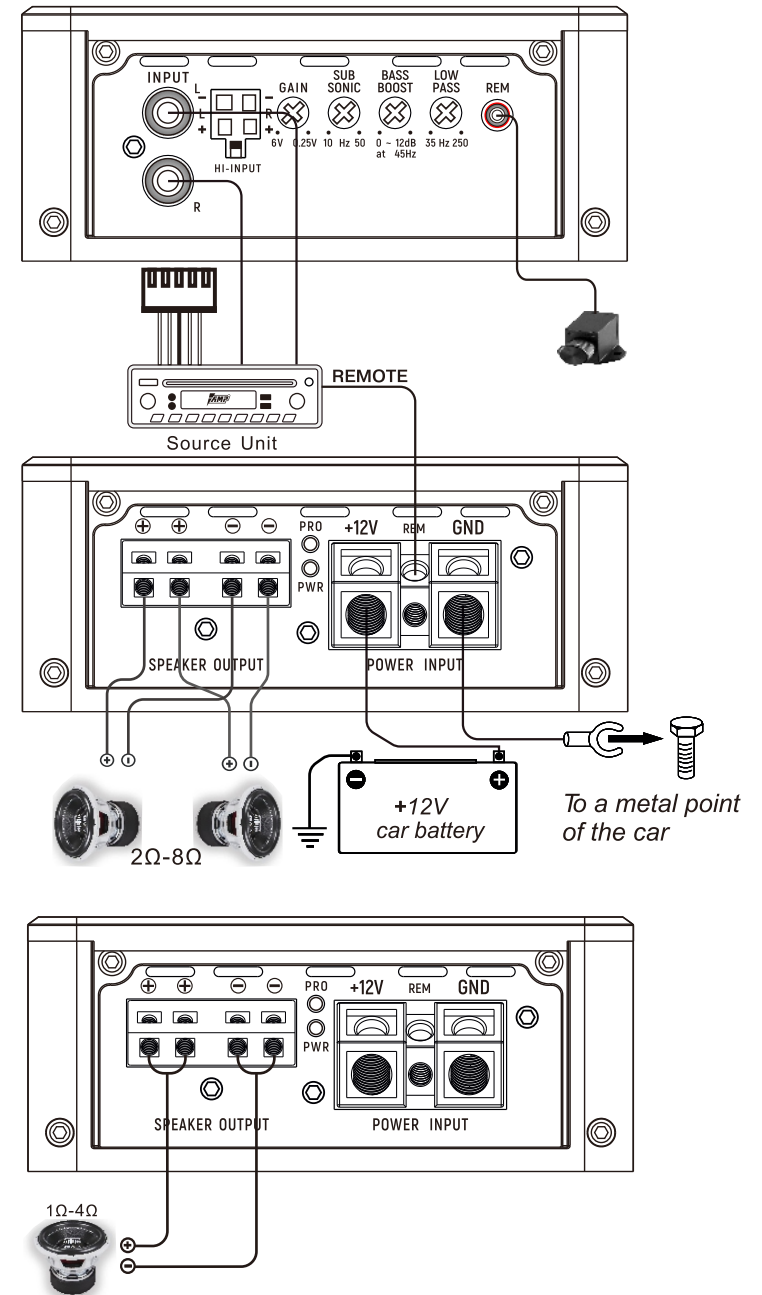
MBA-105.4AB



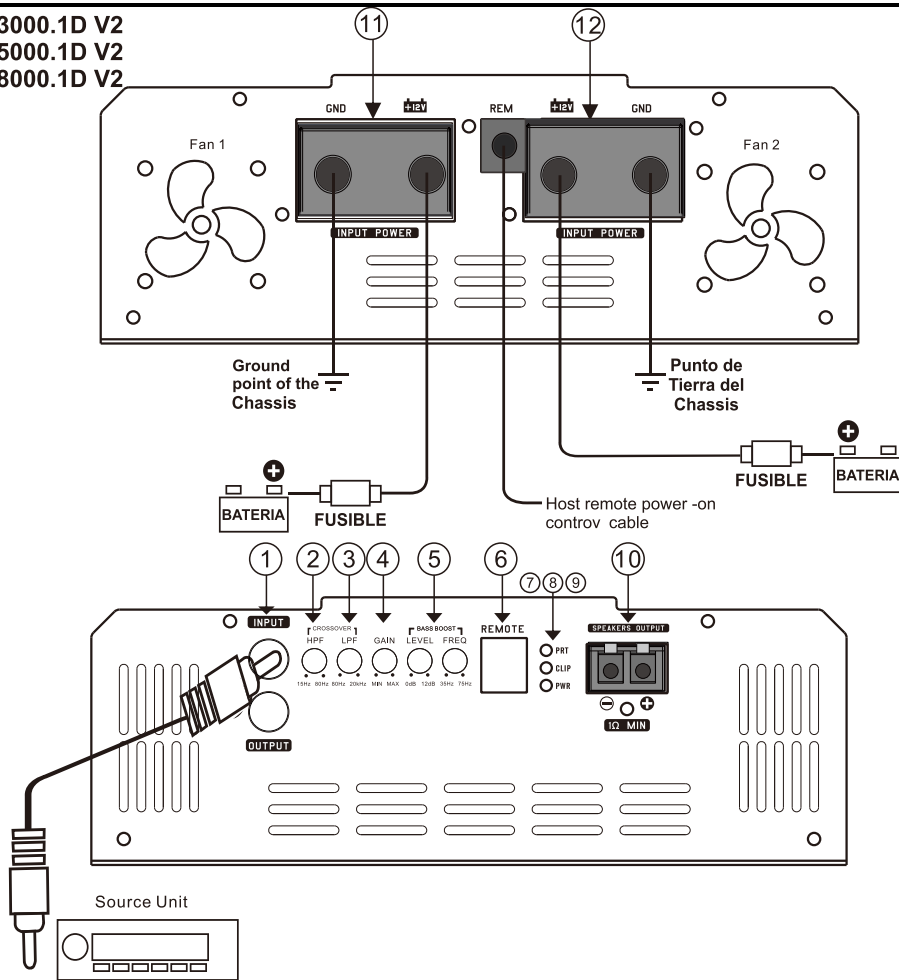
MBA-110.4D ` MBA-400.4D



MBA-700.1D ` MBA-2000.1D



MBA-3000.1D V2
MBA-5000.1D V2
MBA-8000.1D V2



- ① Audio Signal input
- ② High Pass Frequency Range Regulation
- ③ Low Pass Frequency Range Regulation
- ④ Volume Regulator
- ⑤ Bass Boost Regulator
- ⑥ Remote Bass Control
- ⑦ Power indicator
- ⑧ LED indicator
- ⑨ Protection Indicator
- ⑩ Horn Output Terminal
- ⑪ ⑫ Power Input Terminal

