

AMPIRE®

MBM100.2-2G

German Engineering. Out of the ordinary.



Owner's Manual

English



Before attempting to connect or operate this product, please read the instructions completely.

Precautions

- Pay utmost attention if you install the amplifier into the driver's compartment.
- Use only in cars with a 12 Volt negative ground.
- Before wiring, disconnect the cable from the negative battery terminal to avoid short circuits or electrical shocks. Make the correct connections.
- Do not connect the positive and negative cable of the amplifier to the original cables of the car because of its low capacity.
- Do not damage pipe or wiring when drilling holes.
- Arrange the wiring so it is not crimped or pinched by a sharp metal edge.
- Do not install the amplifier in locations which might hinder vehicle operations and do not install in locations with any moisture. Use the installation materials provided with the amplifier.
- Do not use bolts or nuts in the brake, airbags or other safety relevant systems to make ground connections.
- **Warning!** Amplifiers may produce sound pressure levels that exceed the threshold at which hearing loss may result. They may also impair a driver's ability to hear traffic sounds or emergency vehicles. Practice safe listening when listening to your audio system.
When the amplifier works in particularly hard conditions, it can reach up to 90°C. Make sure its temperature is safe before touching it. This amplifiers are developed for motor vehicle use only.

Environmental Reference

- Old electronic devices don't belong into the bin.
- If you want to dispose this equipment later, remove all cables and send it back to Ampire or bring it to a collection point for old electronic devices.
- You can dispose this device together with your old car, too. You don't have to remove it in this case.
- The packing can be recycled. Dispose the packing in a collecting system planned for it.



Front Panel

1. Turn On Switch

It have to be switched to “Radio Remote Line In” if the amplifiers RCA inputs are in use. If the amplifier gets the input signal by the “Hi Input” connector you can choose between Radio Remote Line In” to turn on the amplifier by the remote wire and “DC Sense High Level In” for auto turn on by detecting the “Hi Input” audio signal.

2. Hi input Connector

High level inputs left and right to connect the amplifier to the radios speaker outputs.

3. RCA Input

Left and right RCA inputs.

4. Level Controller

Controls the left and right channels output level.

5. Bass Boost Controller

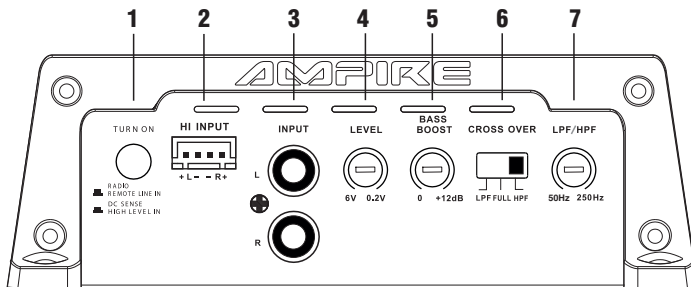
Controls the bass boost at 45Hz between 0 and +12dB.

6. Crossover Switch

Switches the amplifier channels in full range, low pass or high pass mode.

7. Frequency Controller

Controls the low pass or high pass frequency of left and right channels between 50Hz and 250Hz. Only in use if the crossover switch is in Low Pass (LP) or High Pass (HP) position.



Rear Panel

1. Speaker Terminal

Connect the channels left and right to the speakers left and right. Be sure of right polarity. Use only the outputs left + and right - to bridge the channels. In bridged mode you have to use the inputs left and right.

Warning! Never connect the speaker cables to the vehicle body. Don't use speaker impedance lower than 2 Ω in stereo or 4 Ω in bridged mode.

2. LED's

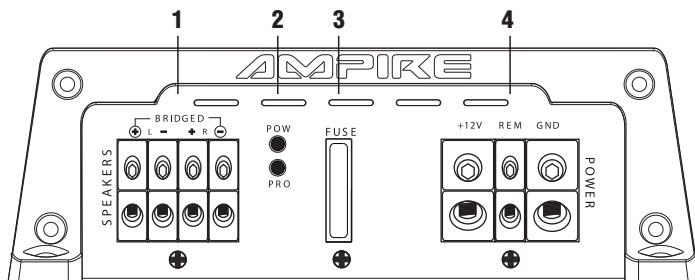
The Power LED lits green if the amplifier is in use. The Protect LED lits red if the amplifier is in saftey mode.

3. Fuse

This fuse protect the amplifier against internal electrical damage. Change it only to other fuse with the same value.

4. Power Terminal

- GROUND: Connect the GND terminal to the chassis ground. Please use a 6mm² cable or bigger. The max length of the ground wire has to be 1m.
- REMOTE: Connect the remote terminal to the remote output of your headunit.
- +12V: Connect this terminal to the battery "+" (Plus)- pole. Please use a 6mm² cable or bigger. Always protect this wire by installing a fuse within 30cm of the battery terminal connection.



Technical Specifications

Power Supply

Power supply voltage	: 10 - 16 VDC
Idling current	: 0,68A
Idling current when off	: <0,4 mA

Amplifier Stage

Output power (RMS) @ 14,4V / 4 Ω	: 70 Watt x 2
Output power (RMS) @ 14,4V / 2 Ω	: 100 Watt x 2
Output power (RMS) @ 14,4V / 4 Ω (bridged)	: 200 Watt x 1
Output power (max.) @ 14,4V / 4 Ω	: 140 Watt x 2
Output power (max.) @ 14,4V / 2 Ω	: 200 Watt x 2
Output power (max.) @ 14,4V / 4 Ω (bridged)	: 400 Watt x 1

Distortion (THD)	: <0,5 %
S/N Ratio	: >90 dB
Channel separation	: >65 dB
Input sensitivity	: 200 mV - 6,0V

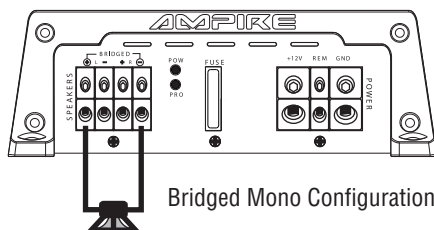
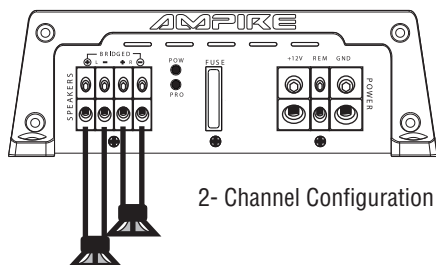
Filters

Low pass filter / slope	: 50 Hz - 250 Hz / 12dB
High pass filter / slope	: 50 Hz - 250 Hz / 12dB
Bass Boost Frequency	: 0 - 12dB @ 45 Hz

Other Functions

Fuse	: 20 A x 1
Max size (L x H x W)	: 200 x 50 x 141 mm
	: 1,35 Kg

Configuration Samples



Since its founding in 1987 Ampire Electronics has only one goal, to provide the best possible Autoalarm-, Autohifi- and Multimedia products, which are available on the international market. All manufacturing facilities and suppliers are certified according to ISO 9001 and QS-9000. Ampire quality products are sold worldwide.

An Ampire customer service is available in many countries.
For more information about distributors in your territory please call: + 49-2181-81955-0.

We are focused on future oriented development of user friendly products.
The outstanding high quality standards, functionalities and designs of our products are unique in the market. "German Development" is taken literally in AMPIRE.

Langwadener Straße 60
D-41516 Grevenbroich
info@ampire.de

Support
+49 2181-81955-0
support@ampire.de

www.ampire.de