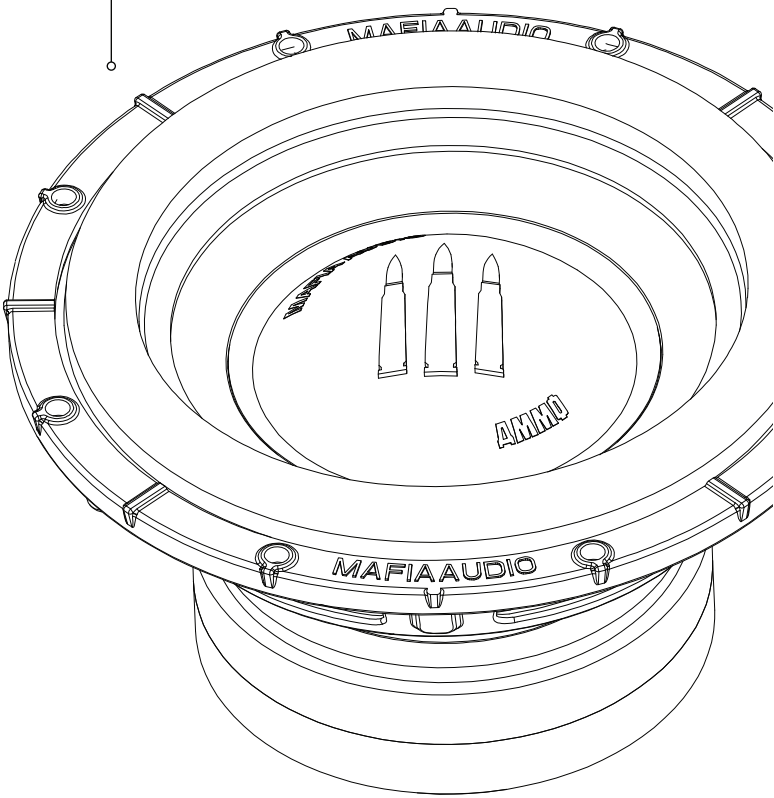
SUBWOOFER MANUAL

SUBWOOFER

AMMO



SERIES

AMMO 510 / AMMO 512

MAFIA AUDIO

ENGINEERED TO HIT HARD.

1. INRTODUCTION

Thank you for purchasing this MAFIA AUDIO product! Our company is committed to the creation of extremely loud sound systems with no loss of quality.
To ensure proper use, please carefully read through this manual before using this product. It is especially important that you read and observe caution's in this manual. Please keep the manual in a safe and accessible place for future reference.

2.SAFETY INSTRUCTIONS

1. Fasten the subwoofer properly when installing it in the vehicle. If the component is disconnected during driving, it may cause serious damage to the passengers of the vehicle or another vehicle.
2. Before installing the components, if possible store the product in its original package to avoid accidental damage to the product.
3. Be careful when installing and dismantling the subwoofer! Do not let the subwoofer drop to avoid damage of its moving parts.
4. When working with tools follow safety rules.
5. Before the installation switch off the head unit and all other audio devices to avoid their damage.
6. make sure that the location of the subwoofer does not hinder the proper operation of mechanical and electrical devices of the vehicle.
7. Do not install components in places exposed to water, excessive humidity, high or low temperature, dust or dirt. ATTENTION!!! The
8. product may be operated at +5 °C (41 °F) to +40 °C (104 °F). In case of moisture condensation, let the product to dry.
9. When performing plumbing, drilling or cutting works with the car, make sure that there is no wiring, brake lines, fuel pipe or other
10. structural elements under the place of work. Follow the safety rules! Use protective glasses and gloves.
11. When stretching back the speaker cables make sure that they are not in contact with sharp edges or moving mechanical devices. Make
12. sure that they are firmly fixed and protected over the entire length.
13. The diameter of the speaker cables must be selected in accordance with the length and applied power.
14. Never stretch the cables outside of the car and near the moving parts of the car. This can lead to destruction of the insulating layer,
15. short circuit and fire.
16. To protect the cables use rubber gaskets if the wire passes through a hole in the plate, or other similar materials if it lies close to the parts exposed to heat.

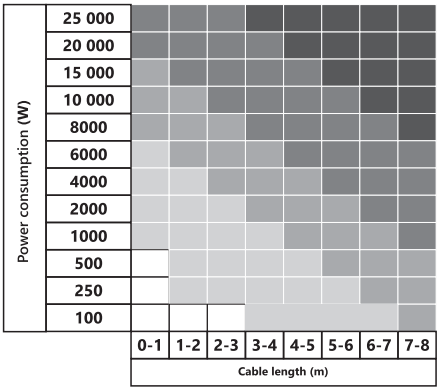
CAUTION!!! HIGH SOUND PRESSURE CAN DAMAGE YOUR HEALTH!
PLEASE USE THE COMMON SENSE WHEN CONTROLLING VOLUME!

3.WIRING DIAGRAMS

1. Attention! You need to connect both voice coils of the subwoofer.
2. Do not expose your amplifier to loads below the value predetermined by the manufacturer.
3. Various examples of connection types are given at the pages below. Use these examples to determine the required load
4. impedance of your connection.

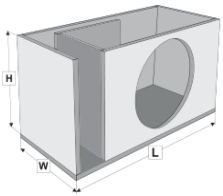
4.SELECTION OF THE DIAMETER OF SPEAKER CABLE

Use the table below to select the desired diameter based on the length and the power consumption.



Size	
A.W.G	mm²
3	26.7
5	16.8
8	8.37
10	5.26
14	2.08

5. RECOMMEND ENCLOSURE PARAMETERS



Bass reflex box

L*W*H = body volume

Model	AMMO 510	AMMO 512
The recommended volume, liters / ft³	40/1.4	50/1.8
Port area, cm² / inch²	80/12.4	150/23
Port length, cm / inch	35/13.8	62/24.4
Port setting, Hz	37	35

6. HOW TO USE

The correct choice of the amplifier, its settings and enclosure design prolongs the lifetime of your subwoofer. You should select an amplifier with a nominal power below the nominal power of the subwoofer. Proper coordination of the head unit (HU) with the amplifier will provide clean, undistorted signal fed to the subwoofer, which prevents overheating and voice coil damage. Like any other speaker the subwoofer has moving and stationary parts. We strongly recommend that the moving parts of the subwoofer should be warmed up at the beginning of operation. Be extra careful when warming up the parts. Warm up the subwoofer using musical material for 40 hours at medium power. If you feel strange smell during operation at maximum volume, you should lower the volume of the subwoofer and let the device to cool down at a low volume. Recommended settings of the amplifier and HU: Volume of HU should not exceed 80%. The amplifier sensitivity should be set to 50%, subsonic filter frequency (Subsonic) should be set to 5 Hz below the port settings. For example, if you configure the port at 30 Hz, Subsonic should be set to 25 Hz

MAFIA AUDIO

AMMO 510 / AMMO 512

7. SPECIFICATIONS

Model	AMMO 510	AMMO 512
Frame	Steel	Steel
Type	Subwoofer	Subwoofer
Size	10 inch	12 inch
Magnet	Ferrite / 156*40mm	Ferrite / 156*40mm
Voice coil	Copper / 2 inch	Copper / 2 inch
Cone material	Paper	Paper
Power RMS (Watt)	500	500
Power MAX (Watt)	1000	1000
Mounting depth(mm)	124.8	136.6
Cut-out dimension(mm)	232	278.5
Gross weight (kg)	6.7	7.2

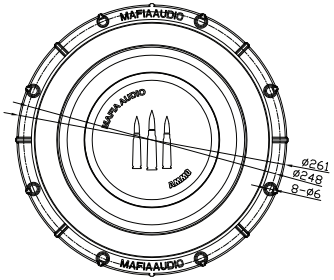
THIELE-SMALL PARAMETERS

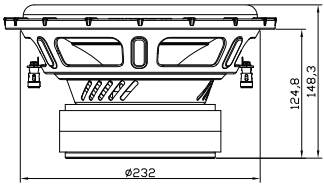
Impedance (Ohm)	2+2/4+4	2+2/4+4
Re (ohm)	1.8+1.8/3.6+3.6	1.8+1.8/3.6+3.6
SPL(dB)	86/86.2	88/88.2
Xmax(mm)	12	12
Fs(Hz)	40/40.6	38/38.3
Vas(L)	13.5/14.2	42/43.1
Qts	0.48/0.49	0.46/0.47
BL	17.5/17.8	16.6/16.9

This specified sensitivity is not directly connected with the sound pressure in the vehicle, and therefore should not be used as the sole indicator for comparison with other speakers.

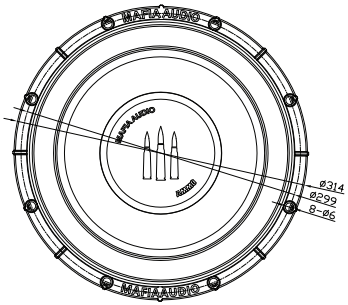
8. DIMENSIONS

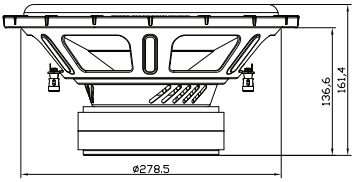
AMMO 510





AMMO 512





9. BOX CONTENTS

1.Subwoofer -1 pc.
2.Owner's Manual -1 pc.
3.Warranty card -1 pc.

10. WARRANTY AND MAINTENANCE IN

Our company shall not be liable for any damage caused by transportation. Our company shall not be liable for any expenses or lost profits arising out of or in connection with the use or inability to use the product or any other incidental or indirect costs, expenses, or damages incurred by the customer. The warranty is valid in accordance with the laws currently in force. For more information, please visit our company website and refer to the warranty card.

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