



FIREBALL-4.101
FIREBALL-4.101 24V
FIREBALL-2.101



FIREBALL-4.101
4-CH CLASS AB AMPLIFIER



FIREBALL-4.101 24V
4-CH CLASS AB AMPLIFIER



FIREBALL-2.101
2-CH CLASS AB AMPLIFIER

USER MANUAL

PLEASE READ CAREFULLY BEFORE USING

INTRODUCTION

Congratulations and thank you for purchasing the AurA FIREBALL Series amplifier, a logical choice for beginner to intermediate projects. Your amplifier was designed and engineered using quality components to help you achieve superior sound quality.

To achieve optimal amplifier performance, please take a few minutes to read this owner's manual or, if necessary, contact an authorized dealer before beginning installation.

MAIN FUNCTIONS

♦STABLE OPERATION AT 2 OHMS LOAD

♦POWERFUL POWER SUPPLY

♦EFFECTIVE PROTECTION

♦12dB/OCT HIGH PASS FILTER (HPF)

♦12dB/OCT LOW PASS FILTER (LPF)

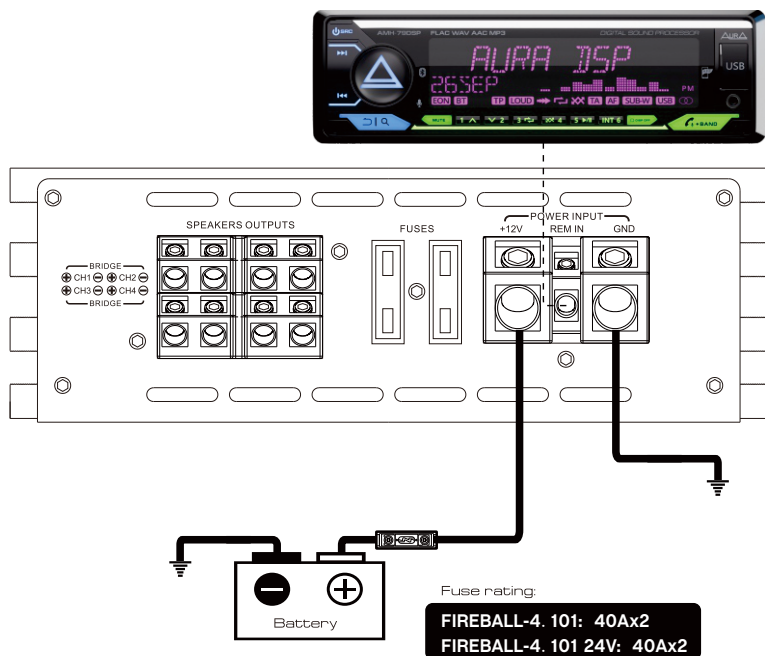
SPECIFICATIONS

Model:	FIREBALL-4.101	FIREBALL-4.101 24V	FIREBALL-2.101
RMS power, 4Ω (W):	101 x 4	101 x 4	101 x 2
RMS power, 2Ω (W):	125 x 4	125 x 4	125 x 2
RMS power, 4Ω bridge (W):	250 x 2	250 x 2	250 x 1
Working resistance, Ohm:	2 / 4	2 / 4	2 / 4
Input sensitivity:	6 V - 0.2 V	6 V - 0.2 V	6 V - 0.2 V
HPF filter:	40 Hz - 3 kHz	40 Hz - 3 kHz	40 Hz - 3 kHz
LPF filter (rear channels):	50 - 250 Hz	50 - 250 Hz	50 - 250 Hz
Bass Boost (rear channels):	0 / 6 / 12 dB	0 / 6 / 12 dB	0 / 6 / 12 dB
Frequency range:	10 Hz - 30 kHz	10 Hz - 30 kHz	10 Hz - 30 kHz
Signal/noise ratio:	>95dB	>95dB	>95dB
Total harmonic distortion:	< 0.1%	< 0.1%	< 0.1%
Working Voltage:	9 V - 15 V	9 V - 24 V	9 V - 15 V
Dimensions: (L x W x H), mm	340x165x54.5	340x165x54.5	186x165x54.5

Due to continuous development and improvement of the product, all technical specifications, as well as appearance, are subject to change without prior notice.



POWER CONNECTION



Power +12V

Before installing amplifiers, disconnect the negative cable from the battery to protect your system from accidental damage.

Connect the positive power cable to the “+12V” terminal of the “POWER INPUT” block. All AurA FIREBALL amplifiers must use external fuses as rated in the diagram above. Connect one terminal of the fuse holder to the power cable going to the amplifier and the other terminal to the positive terminal of the battery.

This will protect the system and the vehicle from a short circuit of the power cable to the vehicle body.

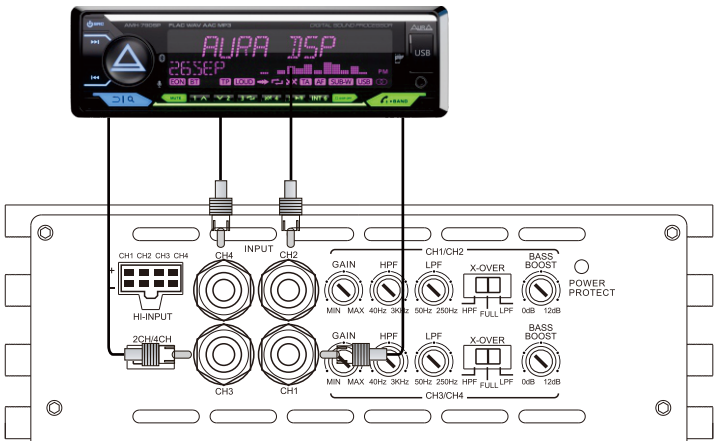
Minus (GND)

The negative cable must be connected to the car body exclusively with a bolted connection. The connection point must be cleaned of paint and reliably protected from corrosion. Loose power connections can cause unstable operation and damage to the amplifier. Connect the negative cable to the “GND” terminal of the “POWER INPUT” block. Подключите минусовой кабель к терминалу “-” колодки «POWER INPUT».

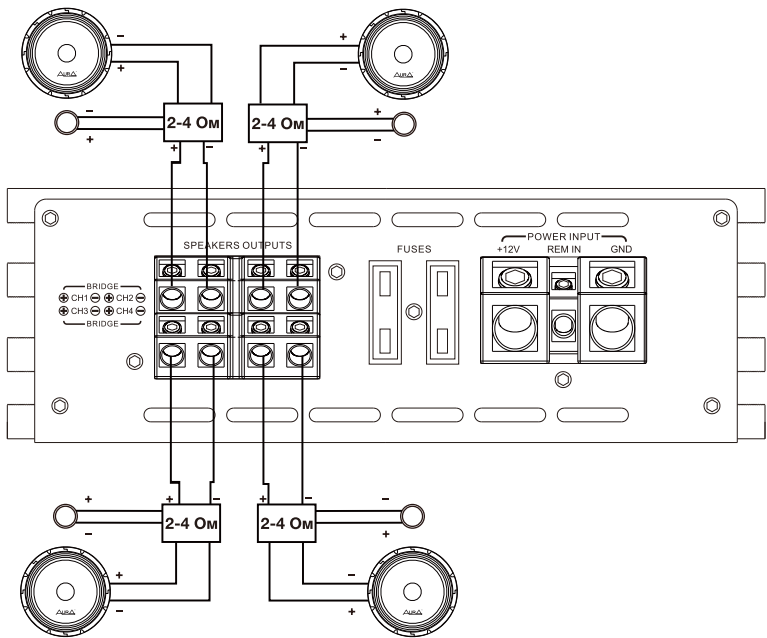
Control wire (REM)

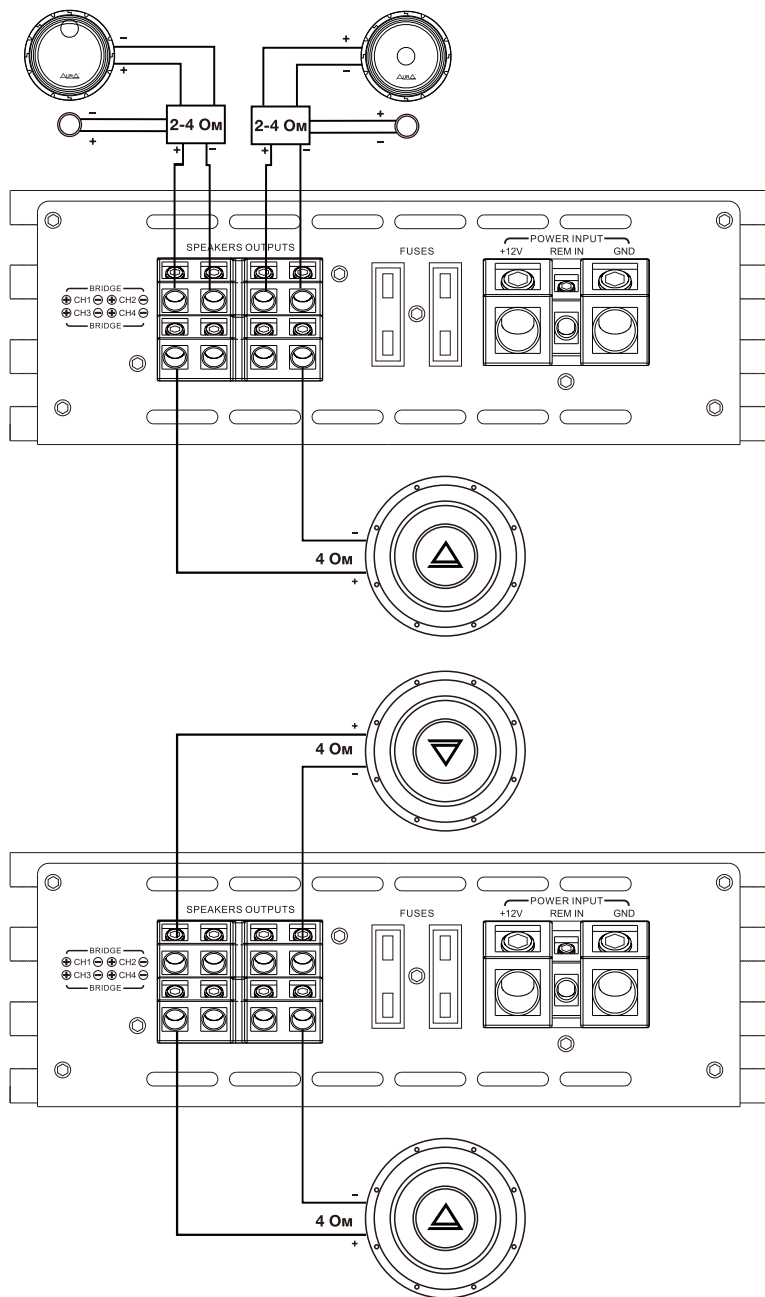
The device turns on when +12 volts is supplied to the “REM”. terminal. This terminal is low-current and does not require connection with a cable of the same cross-section as the positive or negative one. Acceptable wire would be 18-16AWG (0.75-1.5mm²). The standard color of the control cable is blue.

RCA-CABLE CONNECTION



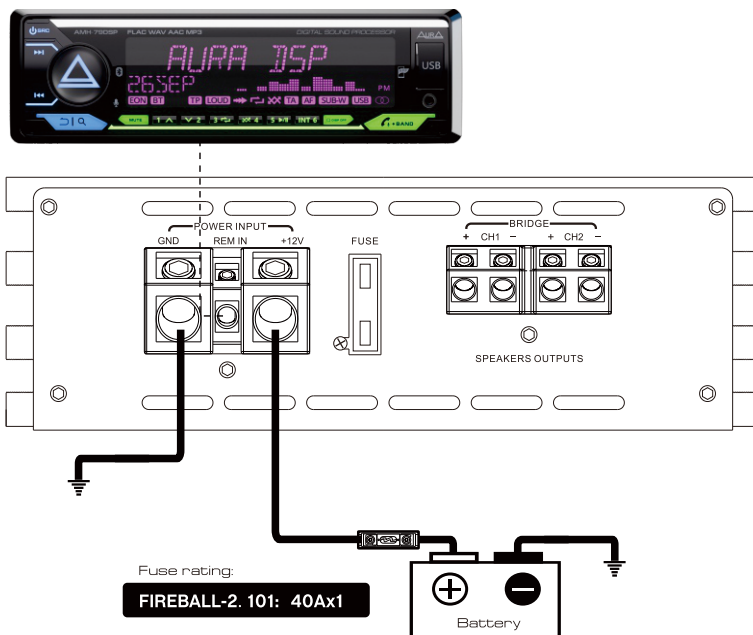
SPEAKER CONNECTION



**SPEAKER CONNECTION**



POWER CONNECTION



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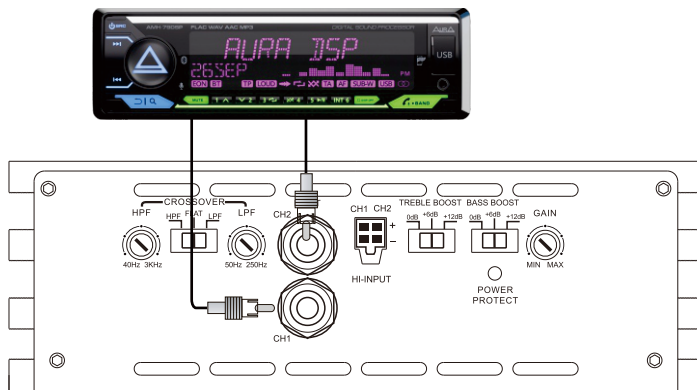
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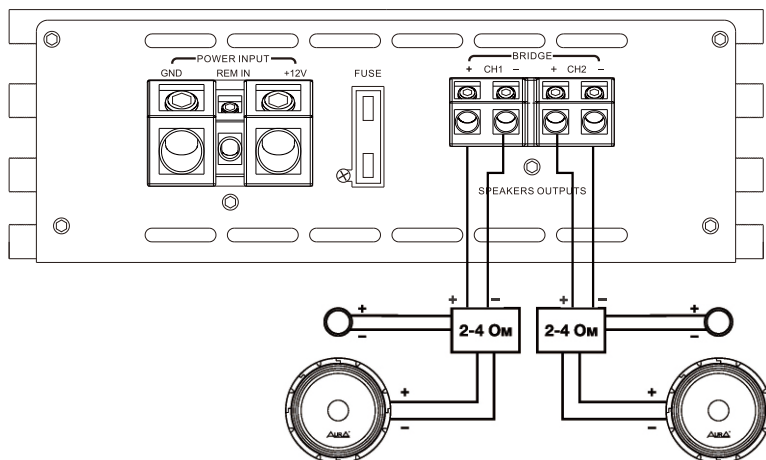
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RCA-CABLE CONNECTION

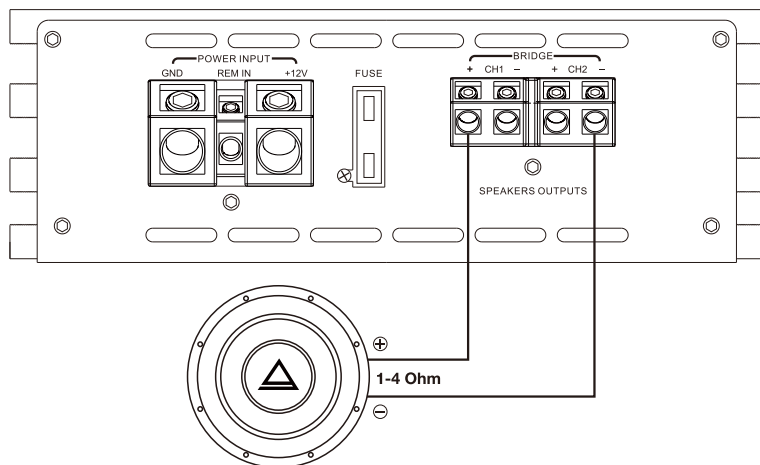


SPEAKER CONNECTION





SPEAKER CONNECTION



TROUBLESHOOTING

- ♦ AurA FIREBALL series amplifiers have safety features to prevent any damage from improper connection or use.
- ♦ In case of overheating, short circuit of speaker wires or excess operating voltage, the protection indicator will light up and the system will be turned off immediately.
- ♦ To identify the problem, set the GAIN control to the far left and turn off the power. Check that all cables are connected correctly and that there are no short circuits.
- ♦ If the amplifier shuts down due to overheating, wait until the temperature drops. The amplifier will automatically turn on after it has cooled down.
- ♦ Before removing the amplifier, review the list below and follow the suggested procedures.

No sound

- ♦ Please check all connections, cable routing and voltage.
- ♦ Please check the fuses. If they are burnt out, replace them with new ones.
- ♦ Please test the speakers by connecting them to a known working amplifier.

Distortion and background noise

- ♦ Adjust the input level and test the speakers on a known working amplifier. Replace failed speakers with new ones.
- ♦ Check the RCA cable. Replace the damaged cable with a new one.
- ♦ Engine noise is caused by poor grounding of the amplifiers, head unit, and other system components such as the alternator. Check all grounding points.

No low frequencies (anti-phase)

- ♦ Please check the speaker wire connections. Change polarity.



WARRANTY CARD

Model name

Serial No.

Buyer name

Buyer address
Phone No.

Sales date

Signature

Seller name/stamp



TERMS OF WARRANTY SERVICE

The manufacturer guarantees the high quality and reliability of the products, subject to the technical requirements described in the operating instructions. This warranty is issued for a period of one year from the date of purchase and is provided in the event that the product is found to be defective due to inadequate quality of materials or workmanship of the manufacturer.

Obligations under this warranty are performed on the territory of the Russian Federation by the manufacturer, Selling organizations - authorized dealers of the manufacturer and service centers indicated on the manufacturer's website.

The product is not subject to warranty repair if it has the following features:

1. The fact that water or other liquids get inside the product;
2. Incorrectly completed warranty card or its absence;
3. Unqualified installation (connection of the product is not appropriate power section of wires, placement in place, hindering product cooling).
4. Intervention in the design of the product.

In case of disputes for reasons not included in the above list, the decision is made by the Authorized Service Center after a technical examination.

Parts with a limited life span (batteries, fuse links, etc.) are not covered by this warranty.

This warranty is not valid if the product is used for industrial purposes.

All terms of this warranty are in accordance with applicable consumer protection laws.

Additional information on the website www.aurael.ru



AURAE

www.aurael.ru



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