



# FIREBALL-D 1.600

MONOBLOCK POWER AMPLIFIER

**USER MANUAL**

PLEASE READ CAREFULLY BEFORE USING

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## 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 1 OHMS LOAD
- ◆POWERFUL POWER SUPPLY
- ◆EFFECTIVE PROTECTION
- ◆ULTRA LOW PASS FILTER
- ◆PHASE ADJUSTMENT: 0-180
- ◆12dB/OCT LOW PASS FILTER (LPF)

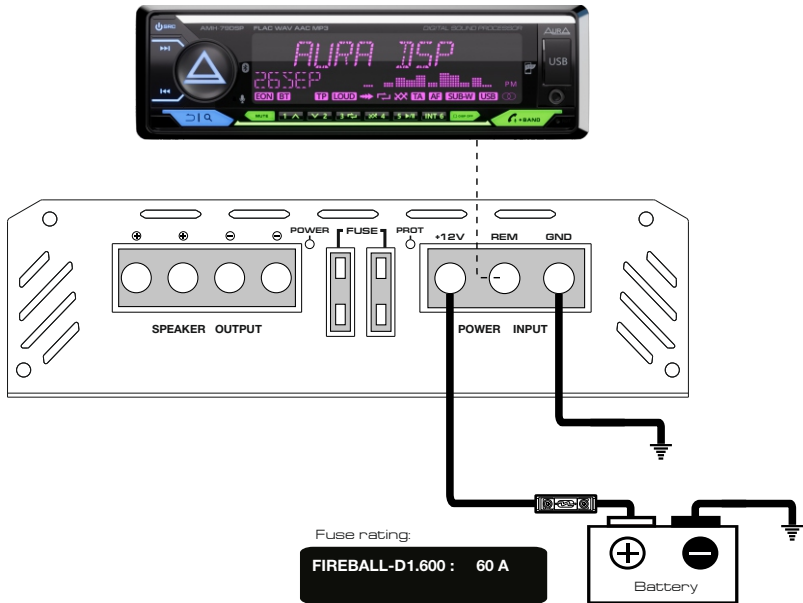
## SPECIFICATIONS

Model:	FIREBALL-D1.600
RMS Power, 4Ω (W):	260 x 1
RMS Power, 2Ω (W):	450 x 1
RMS Power, 1Ω (W):	600 x 1
Operating resistance, Ohm:	1
Input sensitivity:	6 V - 0.2 V
LPF (low-pass filter) filter:	50 - 250 Hz
Ultra-low pass filter:	10 - 50Hz
Bass Boost:	0 - 12 dB
Frequency range:	10 - 250Hz
Signal to noise ratio:	>85 dB
Harmonic distortion factor:	< 0.1%
Operating voltage:	9 V - 15 V
Dimensions: (L x W x H), mm	213x176x54

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 supply +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.

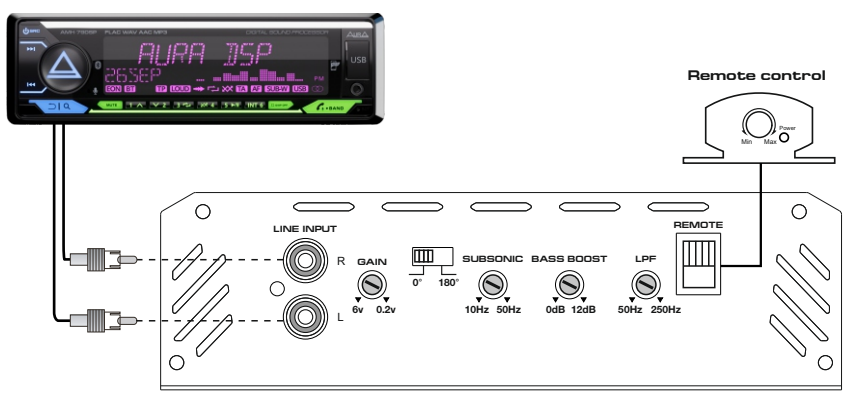
Loose power connections can cause unstable operation and damage to the amplifier.

Connect the negative cable to the “GND” terminal of the “POWER INPUT” block.

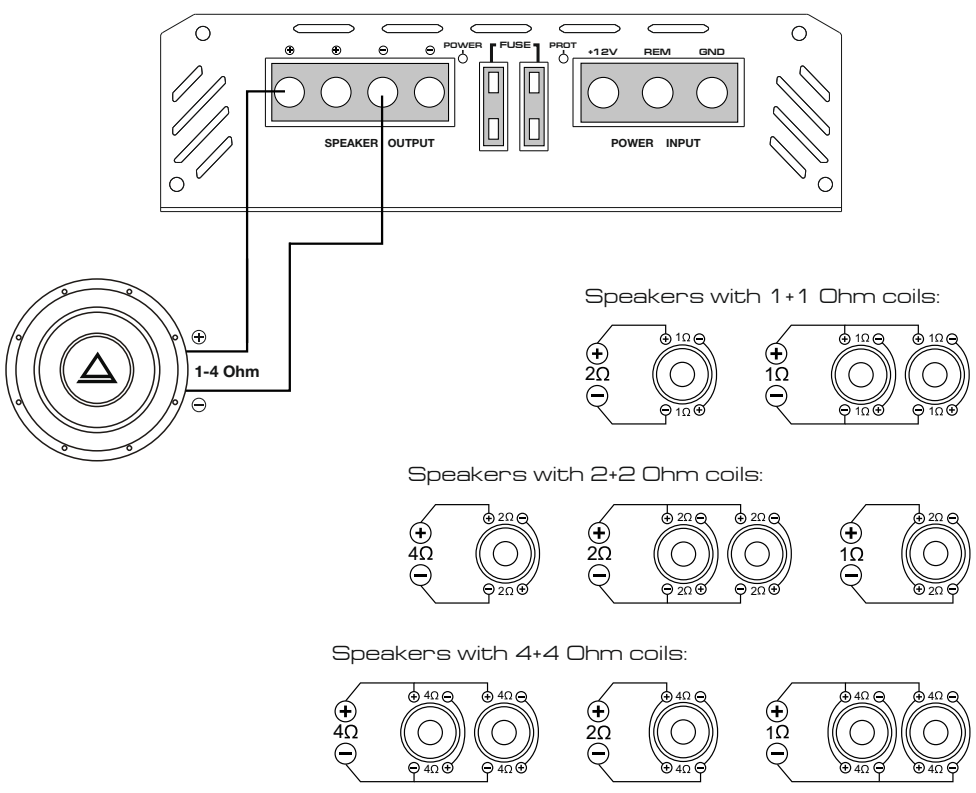
### Control wire (REM)

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. A wire with a cross-section of 18-16AWG (0.75-1.5mm<sup>2</sup>) will be acceptable. The standard color of the control cable is blue.

## RCA-CABLE 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 exceeding 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 extraneous 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 high quality and reliability of products subject to compliance with technical requirements described in the operating instructions. This guarantee 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 manufacturer's workmanship.

Obligations under this guarantee are fulfilled on the territory of the Russian Federation. Federations from the manufacturer, Selling organizations - official dealers The manufacturer and service centers are listed on the manufacturer's website.

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

1. Water or other liquids getting inside the product;
2. Incorrectly completed warranty card or its absence;
3. Unqualified installation (product connection is not provided). appropriate power cross-section of wires, placement on site, preventing the product from cooling).
4. Interference with the design of the product.

In case of disputes arising for reasons not included in the above list, a decision is made at an Authorized Service Center after technical inspection.

Parts with a limited service life (batteries, fuses, etc.) are not covered by this Agreement. guarantee.

This warranty is not valid if the product is used for industrial purposes. All terms of this warranty comply with applicable consumer protection laws. laws.

**Additional information on the website [www.aurael.ru](http://www.aurael.ru)**



**AURA**

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