

Manual de instruções
Instruction manual



BASS 5K

AMPLIFIER 5.000 WATTS RMS - 1 OHM



A instalação deste produto deverá ser feita por um profissional qualificado.

The installation of this product must be made by a qualified professional.

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Term of warranty

TARAMPS, located on Abilio Daguano Street 274, Res. Manoel Martins – Alfredo Marcondes, SP - Brazil, ZIP CODE 19180-000, guarantees this product against any defects on terms of project, making, assembling, and/or with solidarity, due to project vices which cause it improper or inadequate to its original use within 12 months from the date of purchase. In case of defect during the warranty period, TARAMPS responsibility is limited to the repairing or substitution of the device of its own making.

This warranty excludes:

- Damaged products by improper installation, water infiltration, violation by unauthorized individuals;
- Tamper or torn warranty seal;
- Cases in which the product is not used in adequate conditions;
- Defects caused by accessories, modifications or features attached to the product;
- The product with damage from falling, bumps or nature related problems (flooding, lightning, etc.);
- Warranty card is not properly filled or torn;
- Costs involving uninstallation, reinstallation of equipment as well as shipment to the factory;
- Damage of any kind, due to problems in the product, as well as losses caused by discontinued use of the product.

Technical assistance

For international support, check on our website:

www.taramps.com.br/en/rede-de-assistencias-tecnicas or contact direct the factory support:

Phones: +55 18 3266-4050 / +55 18 99749-3391

E-mail: service@taramps.com.br

Introduction

Read this manual before preparing the product. In case of doubt, contact our technical support: **(18) 3266-4050** or www.taramps.com.br.



At the end of its useful life, this product must not be disposed of in household waste. Look for an electronic equipment collection or recycling center for proper disposal.

Declaration of Conformity



TARAMPS ELECTRONICS LTDA
Alfredo Marcondes - SP
Brazil

Hereby, Taramps Electronics Ltda declares that the product BASS 5K complies with the Directive 2014/30/EU, according with the following harmonized standard:

-EN 50498:2010 *Electromagnetic compatibility (EMC) - Product family standard for aftermarket electronic equipment in vehicles*

The full text of the EU Declaration of Conformity is available at the following Product Page on Internet.

Safety requirements

To ensure proper use, please read through this manual before using the amplifier. It is specially important that you know the **WARNINGS** and **CAUTIONS** contained here.

- The installation of this amplifier must be done by a qualified professional.
- Wear safety glasses, insulated gloves and correct tools for installing this product.
- This amplifier is for use with 12V batteries. Always check the voltage before installing.
- This amplifier must be installed in a firm place with at least 1" space around the heatsink for proper heat spreading.
- Never install the amplifier in places exposed to dust, humidity and water. Pay attention to install it far from fuel tank, fuel lines, heat sources and other parts of vehicle.
- Be sure to install protection fuse or a circuit breaker near to battery. Follow the ampere rating as indicated here in this manual. Use of improper fuse or circuit breaker could result in overheat, smoke, damage to product, injury or burns.
- Avoid running wires over or through sharp edges. Use rubber or plastic grommets to protect any wires routed through car's body.
- Before make any connection to amplifier, disconnect the battery negative terminal.
- When in use, the external surface of may amplifier becomes hot. Avoid touching the heatsink area and keep childrens far from the amplifier.
- This amplifier may produce high sound pressure levels. Avoid continuous exposure to levels over 85dB to prevent permanent hearing loss.
- Output connections for speakers may have voltage levels when the amplifier is operating. Make sure that the amplifier is turned OFF before proceed any connection or disconnection in this terminals.
- If you want to dispose this amplifier, don't throw it on domestic waste. It must be collected by an used electronic product disposal service for proper recycling.

Safety

As you read this manual, pay attention to the safety symbols.

CAUTION

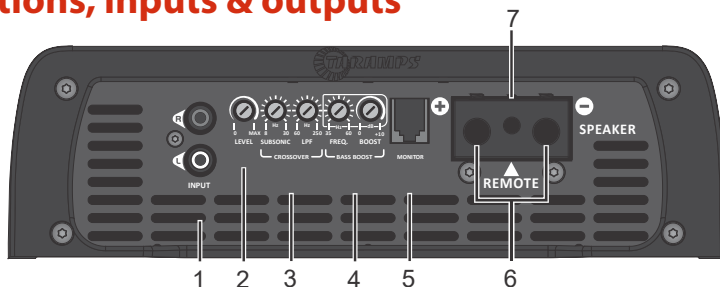
This symbol with **"CAUTION"** is intended to alert the user to the presence of important instructions. Failure to heed the instructions will result in risk of injury to user or product damage.



Taramps reserves the right to modify the contents of this document at any time without prior notice and does not have the obligation to apply the changes in units which were previously produced.

Functions, inputs & outputs

ENGLISH



1 - INPUT (R and L): Inputs of signals to be amplified. Connect these signals to RCA outputs of Head Unit, using good quality shielded cables to avoid noise influence.

2 - LEVEL: It sets the amplifier input sensitivity, which allows an optimal adjustment to the output signals levels of nearly all models of Head Unit found in the market.

3 - CROSSOVER

FILTRO SUBSONIC (HPF): Variable adjustment from 8Hz to 30Hz, which determines the beginning of the amplifier operating frequency.

LOW PASS: Variable adjustment from 60Hz to 250Hz, which determines the end of the amplifier operating frequency.

4 - BASS BOOST

FREQ.: Set the Bass Boost center frequency, from 35Hz up to 60Hz.

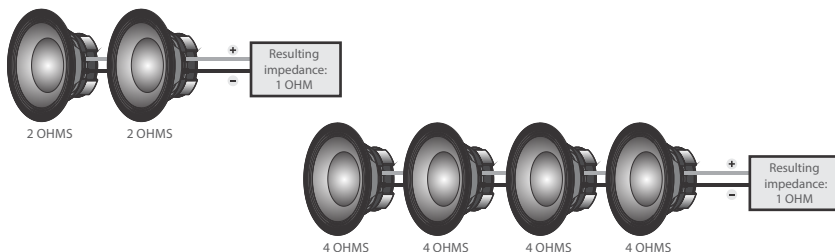
BOOST: Boost for bass levels in 50Hz, with variable gain up 0 to +10dB.

5 - MONITOR: Connection to an accessory, which function is to monitor the amplifier and it is where all information from the indicator LEDs, such as distortion (CLIP) and protection actuation (PROT), will be displayed simultaneously.

6 - SPEAKER: Output (positive and negative) to transducers connection (speakers). Follow the polarity described and the minimum impedance recommended.

To combine speakers, the resulting impedance must be taken into consideration.

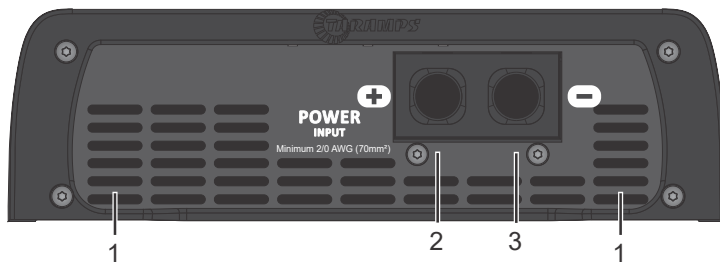
See the examples below:



CAUTION

Due to the presence of voltage at the output terminals when the product is turned on, avoid contact with them. Risk of electric shock.

7 - REMOTE TERMINAL: The remote Head Unit output must be connected by a 0,75mm² (18 AWG) cable.



1 - FANS: This amplifier has two internal ventilation fans. For perfect functioning, the amplifier must be installed in a cool and aired place with at least 1" (25mm) space around the heatsink for proper heat spreading. The usually working temperature of amplifier is 65°C.

CAUTION The fan and ventilation openings are responsible for cooling the amplifier when it is in use, so it cannot be obstructed.

2 - POSITIVE POWER SUPPLY TERMINAL: Use a 2/0 AWG (70mm²) cable directly from the positive battery terminal with fuse (210A), as close as possible from the battery.


3 - REMOTE TERMINAL: The remote Head Unit output must be connected by a 0,75mm² (18 AWG) cable.


4 - NEGATIVE POWER SUPPLY TERMINAL: A 2/0 AWG (70mm²) cable as short as possible must be used, connected to the negative battery pole.

It is recommended that all cables must have tinned ends to improve electrical contact.

CAUTION Before making any connections to the power terminals, make sure that the negative (-) of the vehicle battery is disconnected.


LEDs indicators & protection system

 **Blue LED steady on:** Indicates that the amplifier is turned on.

 **Flashing yellow LED:** Excessive temperature (May be caused by obstruction of the internal fans, improper installation or poorly ventilated location). When the amplifier reaches the temperature of approximately 80°C (176°F), the thermal protection starts working, the audio is interrupted and the yellow LED will start flashing. The fans will be functioning, in order to cool down the components quickly. Only when the amplifier reaches a safe temperature level, the audio is released and the amplifier gets back to its normal functioning.

We recommend don't turn off the amplifier, so that the cooling time will be shorter, through the ventilation of fans.

Blinking yellow LED according to music: Indicates that the amplifier is operating at the threshold of distortion. If the red LED also blinks, it indicates excessive distortion.

 **Red LED steady on:** Short-circuit or impedance lower than that supported at output.
RED LED flashes 2x: Supply voltage less than 9V.
RED LED flashes 3x: Power supply voltage greater than 17V.

Installation

ENGLISH

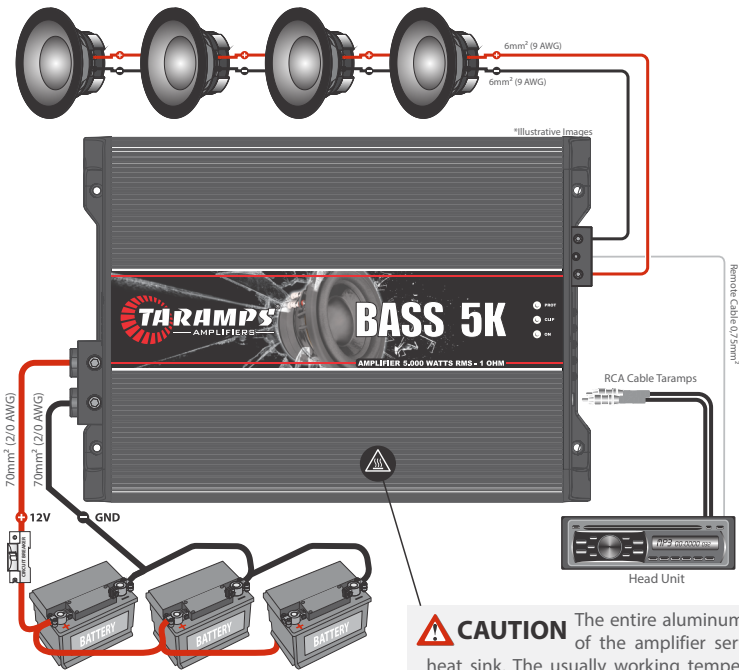
CAUTION CAUTION: All connections to power supply, input and output connectors must be carried out only with amplifier off.

Recommended wire gauge & fuse

Positive / negative power supply cable _____ **2/0 AWG**
Output cables wire gauge _____ **7 AWG**
Remote cable _____ **18 AWG**
Protection fuse or circuit breaker _____ **210A**

Calculated considering a maximum length of 4m. Distance greater than this, you will need to increase the cable gauges.

CAUTION Using wire gauges below the recommendation will result in power loss and overheating of wiring.
Check polarity and never reverse power supply cables due to the risk of damage to the amplifier.
It is compulsory to install a protection fuses or circuit breakers as close as possible from batteries.



CAUTION The entire aluminum surface of the amplifier serves as a heat sink. The usually working temperature is 65°C. So, avoid contact with this surface when the amplifier is in use..

Examples of connections in the power supply input.
Note: Required battery bank capacity: At least 210Ah

CAUTION This equipment is not suitable for use in places where children may be present.

Technical features

ENGLISH

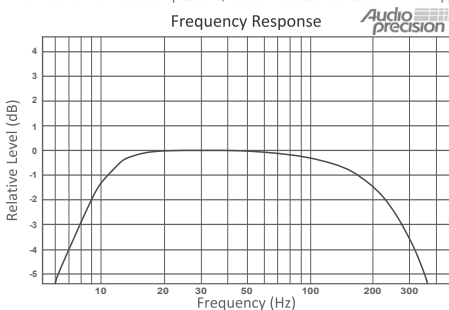
Minimum Output Impedance:	1 Ohm
Number of Channels:	01
Output Power @14.4VDC	
1 OHM:	5000W RMS
2 OHMS:	3200W RMS
4 OHMS:	-----
Input Sensitivity (Level 100%):	220mV
Signal- to-noise Ratio:	>95dB
Frequency Response (Full Range):	8Hz ~ 250Hz (-3dB)**
Crossover HPF (Subsonic Filter):	8Hz ~ 30Hz (-12dB/8°) Variable
LPF (Low Pass Filter):	60Hz ~ 250Hz (-12dB/8°) Variable
Bass Boost: Freq.: Boost:	35Hz ~ 60Hz 0 ~10dB
Efficiency:	83%
Input Impedance:	15K Ohms
Protection System:	Short-Circuit to Output, Short on output compared to GND, Low impedance at output, High/Low supply voltage and Thermal protection
Minimum Supply Voltage:	9VDC
Maximum Supply Voltage:	17VDC
Idle Consumption:	1.20A
Musical Consumption @14.4VDC:	209A
Rated Power Consumption:	418A
Dimensions (W x H x L):	239 x 73 x 327mm (9.41" x 2.87" x 12.87")
Weigth:	5Kg (11lb)

*Rated power with 60Hz sinusoidal signal and THD <= 1%, with resistive loads, measured with Audio Precision APx525 audio analyzer or equivalent and the product at lower than 50°C case temperature and 14.4V supply voltage.

**Frequency response measured at 2 times the minimum impedance.

The values as above are typical and may vary, due to electronic components tolerance or manufacturing process.

For further informations or questions, visit our website or contact TARAMPS support.





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