

Instruction manual



BASS 15K
AMPLIFIER - 15.000WATTS - 1 OHM



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

Index

- 01 • Term of warranty
 - Technical assistance
- 02 • Introduction
 - Safety requirements
 - Safety
- 03 • Functions & inputs
- 04 • Output & power supply connector
 - LEDS indicator & protection system
- 05 • Installation
 - Recommended wire gauge & fuse
- 06 • Technical features

Term of warranty

TARAMPS, located at Júlio Budisk highway, SN, KM 30 – Alfredo Marcondes, SP - Brazil, ZIP CODE 19180-000, warrants this product against any defects on terms of project, making, assembling, and/or with solidarity, due to project vices which cause in it improper or inadequacy as to the purpose for which it was produced 12 months from the date of purchase. In case of defect during the warranty period, TARAMPS' responsibility is limited to the repairing or replacement 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 the 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 directly 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 15K complies with the Directive 2014/30/EU, in accordance with the following harmonized standard:

*Electromagnetic compatibility (EMC) -
-EN 50498:2010 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 **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 must be used 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 a protection fuse or a circuit breaker near the battery. Follow the amperes as indicated here in this manual. Use of improper fuse or circuit breaker could result in overheating, 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 making connection to amplifier, disconnect the battery's negative terminal.
- When in use, the external surface of the amplifier becomes hot. Avoid touching the heatsink area and keep children 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 proceeding any connection or disconnection in this terminal.
- If you want to dispose this amplifier, don't throw it on domestic waste. It must be collected by a disposal service for wasted electronic products proper recycling.

Safety

Pay attention to the safety symbols.

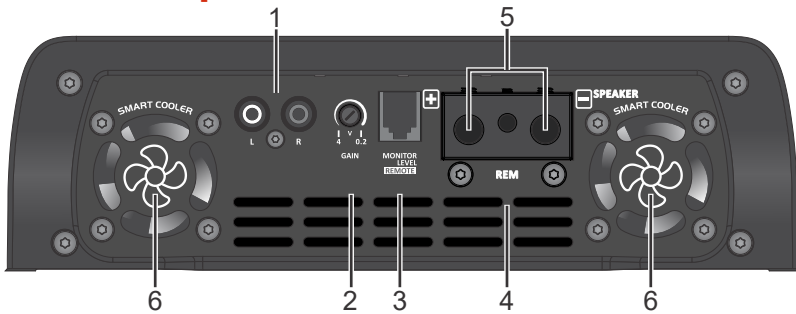
CAUTION

This symbol with **"CAUTION"** is intended to alert the user about 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



1 - L/R: 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 - GAIN: Adjusts the input sensitivity of the amplifier, allowing a perfect adjustment to the output signal levels of various head units models on the market. It is possible to adjust from 4V (minimum sensitivity) to 0.2V (maximum sensitivity).

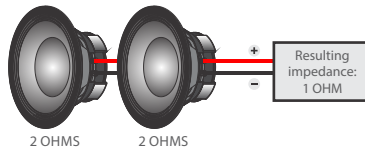
3 - MONITOR LEVEL REMOTE: Connection to an accessory, which function is to control the gain and monitor the amplifier where all information from the indicator LEDs, such as distortion (CLIP/TEMP) and protection actuation (PROT), will be displayed simultaneously. **(Accessory included).**

4 - REMOTE TERMINAL: The remote Head Unit output must be connected by a 0.75mm² (18 AWG) cable.

5 - 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.

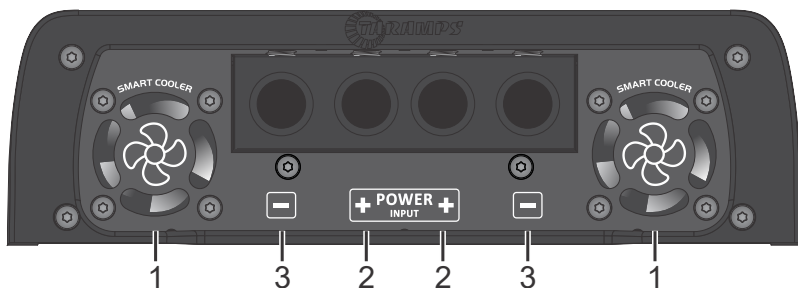
6 - FANS: This amplifier has four internal fans, and cannot be blocked. This fan is controlled by an intelligent system (**Smart Cooler**). The fan only runs at maximum speed after the product reaches a certain temperature level. This function ensures long fan life and silent operation of your amplifier. For a perfect operation, the amplifier must be installed in a dry and ventilated place, with a free space of at least 1" (25mm) on each side. The normal working temperature of this 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.

Output & power supply connector



1 - FANS: See text - 6 on the previous page.

2 - POSITIVE POWER SUPPLY TERMINAL: Use a $2 \times 70 \text{ mm}^2$ (2/0 AWG) cable directly from the positive battery's terminal with fuse (650 A), as close as possible from the battery.

3 - NEGATIVE POWER SUPPLY TERMINAL: Use $2 \times 70 \text{ mm}^2$ (2/0 AWG) cable as short as possible must be used, connected to the negative battery's pole.

We recommend that all cables have tinned ends for better electrical contact.

In case of power bus bar using, avoid tightening with extenders on the allen wrench, as excessive torque may break the terminal.



CAUTION

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

LEDs indicators & protection system



ON

Steady blue LED on:

Indicates that the amplifier is on.



CLIP

Flashing yellow LED: The amplifier is overheating (May be caused by obstructed internal fans, improper installation or poorly ventilated location).

When the amplifier reaches a temperature of approximately 80°C (176°F), the amp goes into thermal protection, the audio ceases, and the yellow LED starts flashing. The fan will keep working to cool the components quickly. Only when the amplifier reaches a safe temperature level the audio will be back on again and the amplifier will be operational again.

We recommend that the amplifier is not switched off, so that the fan continues to work, making the cooling time shorter.

Flashing yellow LED according to music: Indicates that the amplifier is operating at the limit of distortion. If the red LED also flashes it indicates excessive distortion.



PROT

Steady red LED on:

Indicates short circuit or impedance lower than the output can handle.

RED LED flashes 2x:

Battery voltage under 9V.

RED LED flashes 3x:

Battery voltage over 17V.

Installation



CAUTION

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

Recommended wire* gauge & fuse

Positive / negative power supply cable _____ **2 x 70 mm² (2 x 2/0 AWG)**

Output cables wire gauge _____ **10 mm² (7 AWG)**

Remote cable _____ **0,75 mm² (18 AWG)**

Protection fuse or circuit breaker _____ **650 A**

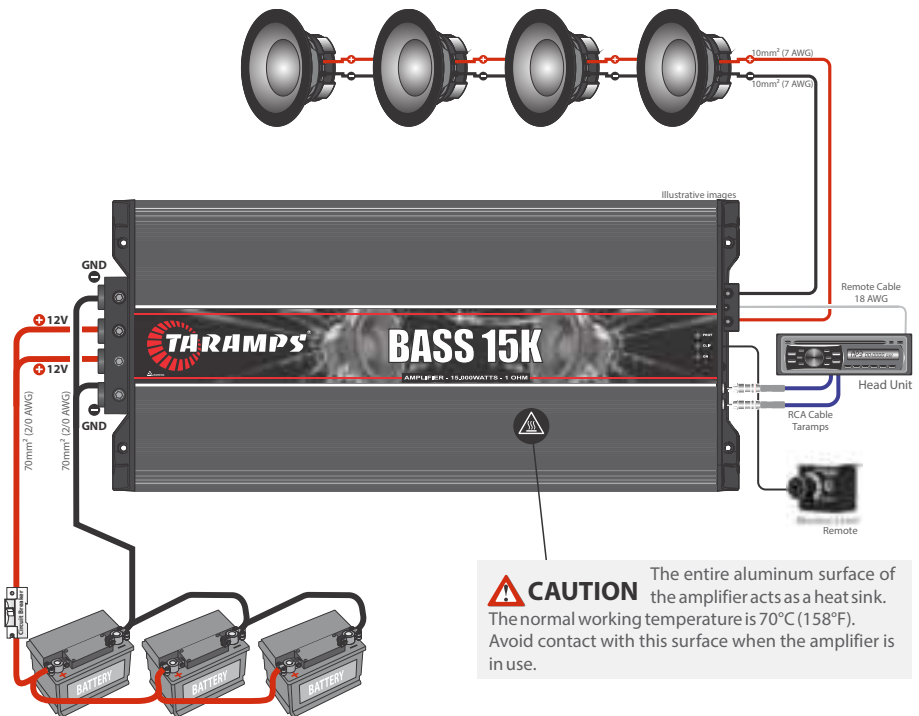
*Calculated considering a maximum length of 4m. To reach a distance greater than this, you will need to increase the cable gauges.



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 fuse or circuit breakers as close as possible from batteries.



Examples of connections at the power input:
Minimum capacity required of the bank of batteries: 650A

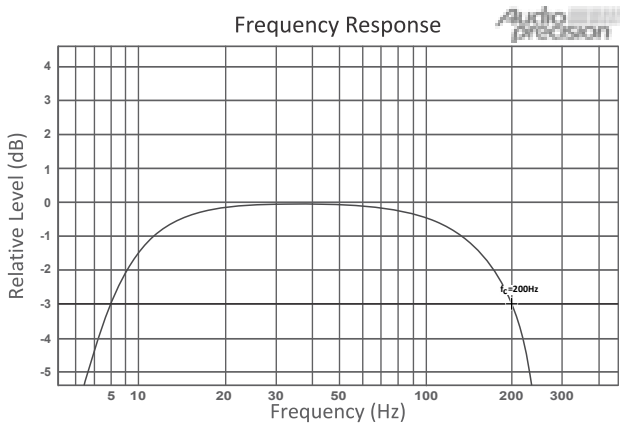


CAUTION This equipment is not suitable for use in places where children may be present.

Technical features

Minimum output impedance:	1 Ohm
Number of channels:	01
Output power @14.4VDC:	
1 OHM:	15.400W RMS*
2 OHMS:	9.399W RMS
Input sensitivity:	150mV ~ 4V Rms
Signal- to-noise ratio:	>90 dB
Frequency response:	5 Hz ~ 200 Hz (-3 dB) ** (Graphic)
Crossover	
HPF (Subsonic Filter):	5 Hz (-3 dB) Fixed
LPF (Low pass filter):	200 Hz (-3 dB) Fixed
Efficiency:	81%
Input impedance:	10K Ohms
Protection system:	Output short circuit to GND, low impedance protection, low/high voltage protection and thermal protection.
Minimum supply voltage:	9 VDC
Maximum supply voltage:	17 VDC
Idle consumption:	4.2 A
Musical consumption @14.4VDC:	659 A
Rated power consumption:	1318 A
Dimensions (W x H x L):	239 x 73 x 533 mm (9.41" x 2.87" x 20.91")
Weigth:	7.2 Kg (15.84lb)

*Rated power with 40 Hz sinusoidal signal, THD <= 10%, with resistive loads, measured with SMD/AD-1 audio power analyzer or equivalent and the product at lower than 50°C case temperature and 14.4 V supply voltage.
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 TARAMP'S support.





+55 18 3266-4050

Manufactured by:
TARAMPS ELECTRONICS LTDA
TAX ID: 11.273.485/0001-03
Highway: Júlio Budisk, SN, KM 30
Alfredo Marcondes - SP
Made in Brazil
www.taramps.com.br