

Instruction manual



BASS 30K
AMPLIFIER 30.000 WATTS RMS - 1 OHM



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

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Introduction

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

The **BASS 30K** is a car amplifier with 30,000 Watts RMS of power at 1 Ohm.

It was developed to extract the most from subwoofers.

This equipment guarantees low-frequency reproduction with unparalleled depth and impact, taking your sound experience to a new level.

If you are looking for excellence and maximum performance in subwoofers, the BASS 30K is your best choice.

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 amperage as indicated here in this manual. Use of improper fuse or circuit breaker can 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 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.

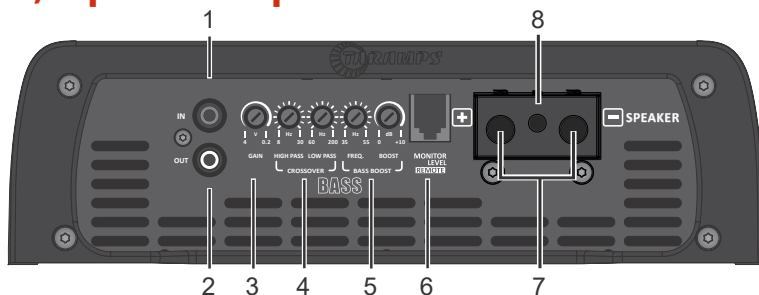
Safety

Pay attention to the safety symbols.



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.

Functions, inputs & outputs



1 - IN: Input of signal to be amplified. Connect to the RCA output of the Head Unit using good shielded cable to avoid noise interference.

2 - OUT: Audio signal output. Sends the same input (IN) signal to another amplifier, allowing cascading.

3 - 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).

4 - CROSSOVER

HIGH PASS FILTER (HPF): Variable setting from 8Hz to 30Hz, which determines the start of the amplifier's operating frequency.

LOW PASS FILTER (LPF): Variable setting from 60Hz to 200Hz, which determines the end of the amplifier's operating frequency.

5 - BASS BOOST

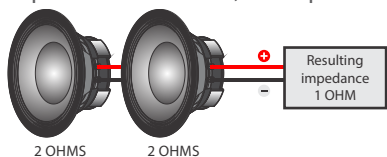
FREQ.: Set the frequency of bass boost from 35Hz to 55Hz.

BOOST: Set the boost level from 0 to + 10dB at the frequency set in FREQ.

6 - 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 amplifier on (ON), such as distortion (CLIP/TEMP) and protection actuation (PROT), will be displayed simultaneously. **(Accessory not included).**

7 - SPEAKER: Output (positive and negative) for connecting transducers (speakers). Follow the indicated polarity.

For speaker associations, the impedance to consider is the resulting impedance:

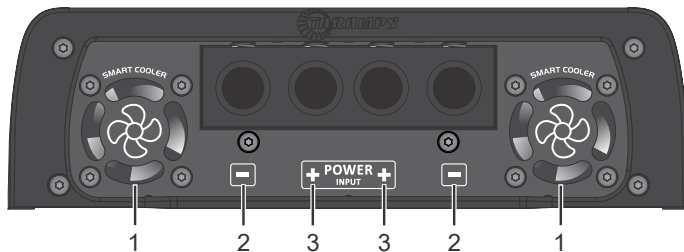


8 - TERMINAL REMOTE: It must be connected to the remote output of the head unit using a 18 AWG cable.



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.

Power supply connector



1 - SMART COOLER: This amplifier has six 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 usual working temperature of this amplifier is 70°C (158°F).

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

2 - NEGATIVE POWER SUPPLY: Use 2/0 AWG cables as short as possible, connected to the negative battery pole.

3 - POSITIVE POWER SUPPLY: Use 2/0 AWG cables direct from the positive battery terminal, with fuse or circuit breaker (1150A), as close to it as possible.

We recommend that all cables have tinned ends, for better electrical contact and that all power inputs are used.

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

LEDs indicators & protection systems



ON (BLUE LED): Indicates that amplifier is on.

CLIP (YELLOW LED): Indicates that the amplifier is operating at the threshold of distortion or excessive temperature. If the red led also blinks, it indicates excessive distortion.

PROT (RED LED): It indicates whether there is a short circuit at the output of the amplifier or impedance lower than the supported by the equipment; Check if the supply voltage is below 9V or above 17V.

SHORT-CIRCUIT PROTECTION: Shutdown the amplifier when detecting a short-circuit or impedance lower than the supported at the output.

THERMAL PROTECTION: When the amplifier reaches a high temperature condition (internally), the thermal protection will activate – The audio output will be disabled and the yellow led will flash continuously. The internal fans will remain on until the internal temperature backs to normal operating levels, then the amplifier resumes the audio playing.

Don't turn off the amplifier under this conditions, in order to get a shorter cooling time.

HIGH/LOW SUPPLY VOLTAGE: If the supply voltage below 9v the LED (PROT) will flash 2x intermittently. Above 17V, the LED (PROT) will flash 3x intermittently, the protection system will be triggered, cutting off the audio signal. The amplifier will only return to its normal functioning when it is switched off and on again and the supply voltage is between 9V and 17V.

Installation

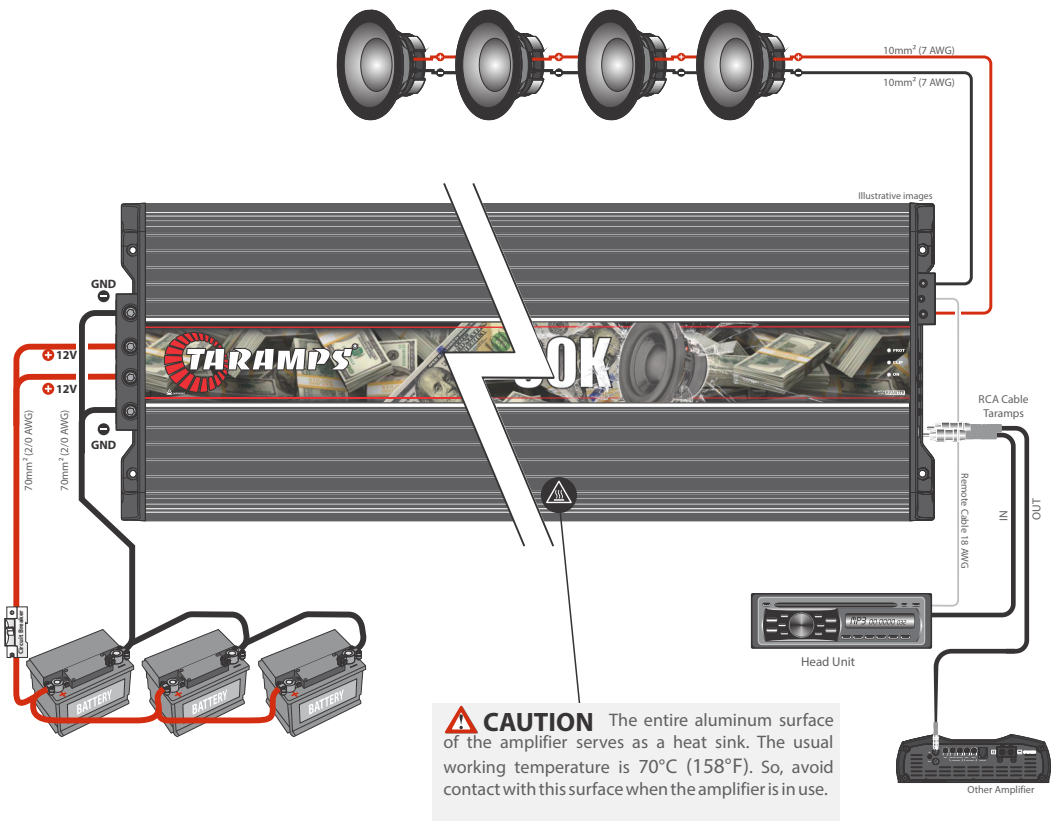
CAUTION All connections to power supply, input and output connectors must be carried out only with amplifier off.

Recommended wire gauge & fuse

Positive / negative power supply cable	2 x 2/0 AWG
Output cables	7 AWG
Remote cable	18 AWG
Protection fuse or circuit breaker	1150A

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 to install a protection fuses or circuit breakers as close as possible from batteries.



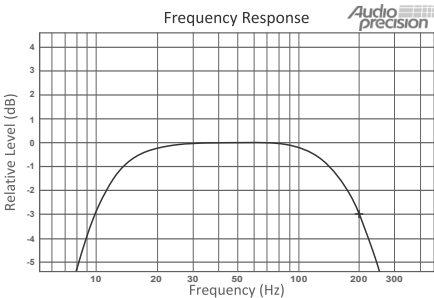
Examples of connections in the power supply input.
Note: Required battery bank capacity: At least 1150Ah

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:	30,000W RMS*
2 OHMS:	18,000W RMS
Input Sensitivity (Level 100%):	220mV ~ 4V RMS
Signal- to-noise Ratio:	>90dB
Frequency Response (Full Range):	8Hz ~ 200Hz (-3dB)
Crossover	
HPF (Subsonic Filter):	8Hz ~ 30Hz (-12dB/8ª) Variable
LPF (Low Pass Filter):	60Hz ~ 200Hz (-12dB/8ª) Variable
Bass Boost:	Freq.: 35Hz ~ 55Hz Boost: 0 ~+10dB
Efficiency:	90%
Input Impedance:	10K Ohms
Protection System:	Short-Circuit to Output, Short on output to GND, Low impedance at output, low/high supply voltage and Thermal protection
Minimum Supply Voltage:	9VDC
Maximum Supply Voltage:	17VDC
Idle Consumption:	6A
Musical Consumption @14.4VDC:	1150A
Rated Power Consumption:	2300A
Dimensions (W x H x L):	239 x 73 x 912mm (9.41" x 2.87" x 35.91")
Weigth:	13.50Kg (29.7lb)

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



Declaration of conformity



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.

Term of warranty

TARAMPS, located at Julio 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

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