

Instruction manual



T9.000
CHIPEO
AMPLIFIER - 9.000 WATTS - 1 OHM
2 OHMS



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

Index

- 07 • Term of warranty
 - Technical assistance
- 08 • Introduction
 - Safety requirements
 - Safety
- 09 • Functions, inputs & outputs
- 10 • Power supply connector
 - LEDs indicators & protection system
- 11 • Installation
 - Recommended wire gauge & fuse
- 12 • Technical features

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

E-mail: service@taramps.com.br

Introduction

Congratulations on your purchase of a Taramps product.

It was developed in a modern laboratory and with the latest technology.

This manual covers all features, operations and instructions to solve any doubt that may arise during the installation. Please take some time to read it carefully in order to ensure the proper installation and the use of all benefits that this product can offer.

For questions, please call **+55 (18) 3266-4050**, e-mail **support@taramps.com.br** or visit **www.taramps.com.br**.

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 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.

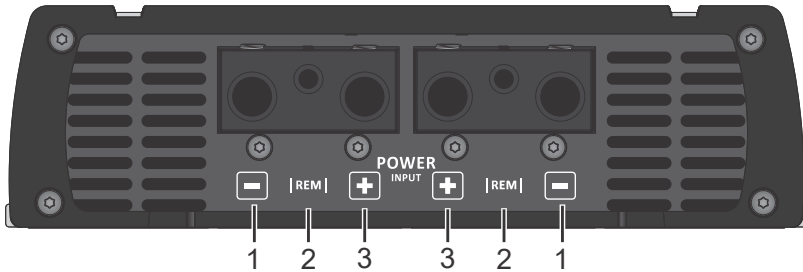
CAUTION

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.

Power supply connector



1 - NEGATIVE POWER SUPPLY TERMINAL: A 1/0 AWG (50mm²) cable as short as possible must be used, connected to the negative battery pole.

2 - REMOTE TERMINAL: The remote Head Unit output must be connected by a 0,75mm² (18 AWG) cable. It is not necessary to connect both remote inputs, just connect one to activate the amplifier.

3 - POSITIVE POWER SUPPLY TERMINAL: Use a 1/0 AWG (50mm²) cable directly from the positive battery terminal with fuse (450A), as close as possible from the battery.

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

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



CAUTION

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

LEDs indicators & protection system



ON

Blue LED steady on:

Indicates that the amplifier is turned on.



CLIP

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.



PROT

Red LED steady on:

Short-circuit or impedance lower than that supported at output.

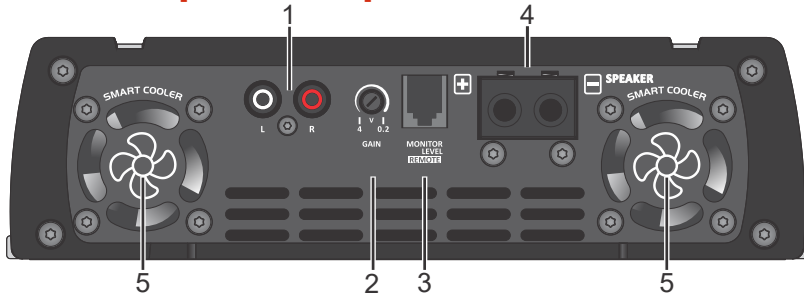
RED LED flashes 2x:

Supply voltage less than 9V.

RED LED flashes 3x:

Power supply voltage greater than 16V.

Functions, inputs & outputs

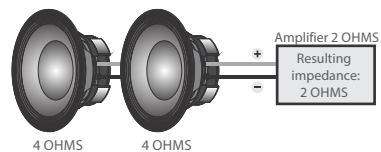
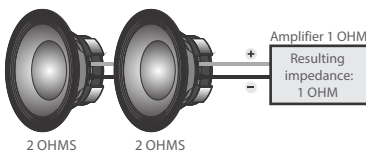


1 - L/R: Inputs of signals to be amplified. Connect these signals to RCA outputs of Head Unit, using good quality shielded cables to avoid noise influence.

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 for the LED Monitor accessory, whose function is to monitor the amplifier, informing clipping and activation of protections and also for the Monitor level Remote which monitors the above functions and controls the volume of the amplifier. **(Accessory not included).**

4 - 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.

5 - SMART COOLER: 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 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.

Installation



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 x 1/0 AWG**
 Output cables wire gauge _____ **7 AWG**
 Remote cable _____ **18 AWG**
 Protection fuse or circuit breaker _____ **450A**

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

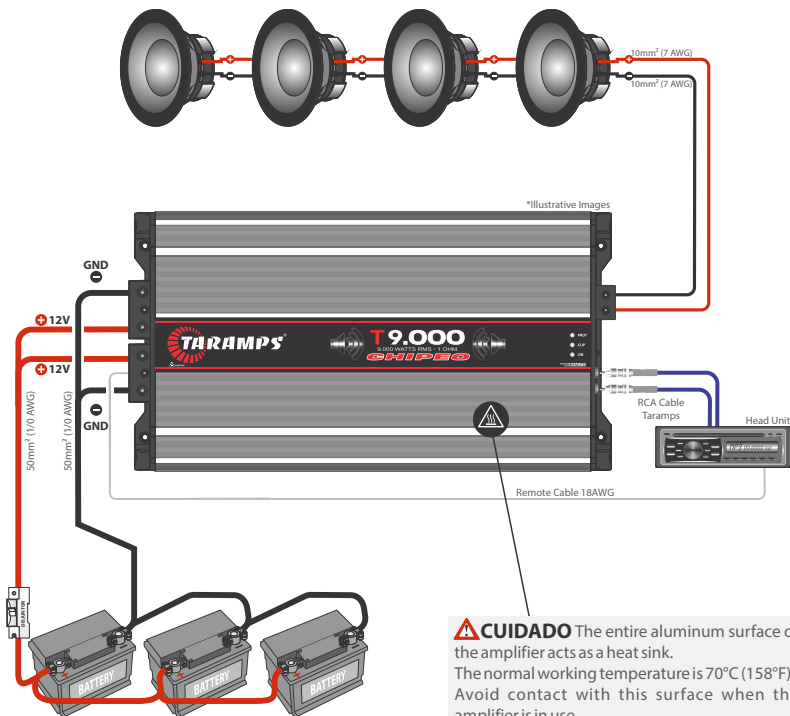


CAUTION

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.

Note: In case of compression drivers and tweeters you must install a passive filter in the positive terminal of the same ones (Consult transducer's manufacturer manual).



CUIDADO

The entire aluminum surface of the amplifier acts as a heat sink. The normal working temperature is 70°C (158°F). Avoid contact with this surface when the amplifier is in use.



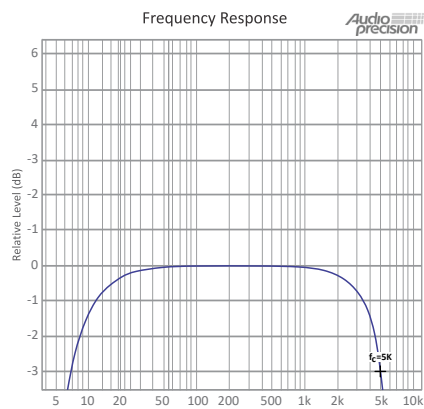
CUIDADO

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

Required battery bank capacity: At least 450Ah

Technical features

Minimum Output Impedance:	1 Ohm	2 Ohms
Number of Channels:	01	
Output Power @12.6VDC		
1 OHM:	9000W RMS	-----
2 OHMS:	5445W RMS	9000W RMS
4 OHMS:	-----	5445W RMS
Output Power @13.8VDC		
1 OHM:	10000W RMS	-----
2 OHMS:	6100W RMS	10000W RMS
4 OHMS:	-----	6100W RMS
Output Power @14.4VDC		
1 OHM:	11000W RMS	-----
2 OHMS:	6710W RMS	11000W RMS
4 OHMS:	-----	6710W RMS
Input Sensitivity:	220mV ~ 4V Rms	
Signal- to-noise Ratio:	>90dB	
Frequency Response :	5Hz ~ 5KHz (-3dB)**	
Efficiency:	79%	84%
Input Impedance:	10K 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:	3.70A	1.50A
Musical Consumption @12.6VDC:	450A	423A
Rated Power Consumption:	900A	846A
Dimensions (W x H x L):	228 x 64 x 446mm (8.98" x 2.52" x 17.56")	
Weigth:	5.80Kg (12.76lb)	



*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 12.6V supply voltage.

**Frequency response measured at double the 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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