

Instruction manual



TL-500



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

Index

- 01 • Term of warranty
 - Technical assistance
- 02 • Introduction
 - Safety requirements
 - Safety
- 06 • Installation
 - Recommended wire gauge & fuse
 - Technical features

Term of warranty

TARAMPS, located at Júlio Budisk highway, SN, KM 30 – Alfredo Marcondes, SP - Brazil, ZIP CODE 19180-120, warrants 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 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 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/es**



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 TL 500 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 **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 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 braker 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 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.

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 _____ **15 AWG**

Output cables wire gauge _____ **15 AWG**

Protection fuse or circuit breaker _____ **20A**

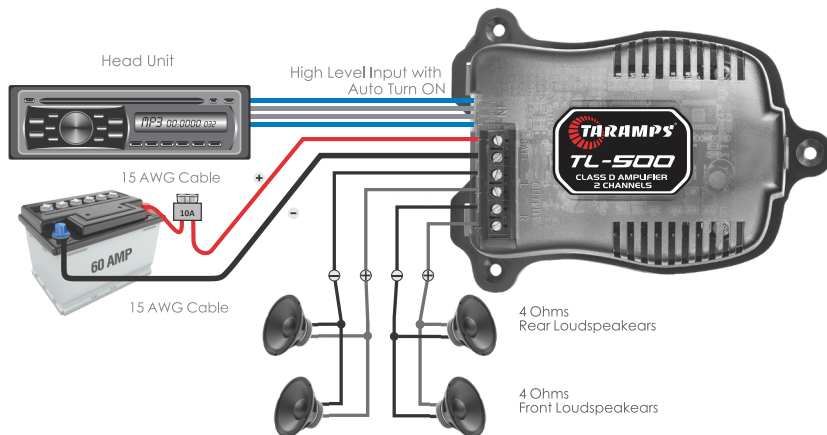
Calculated considering a maximum length of 4m. Distance greater than this, you will need to increase the cable gauges.



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.



The TL 500 amplifier has a feature that turn on the amplifier automatically based on audio level at the inputs. In order to keep the amplifier working, a minimum sound volume is needed, around 2 to 5 volume units on head unit (it may vary according the song or head unit model). If you turn on your head unit with volume 0 or mute, the amplifier will stay OFF.

After turn off the head unit, the amplifier will remain ON by about 30 seconds.

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).

Technical features

Minimum Output Impedance:	2 Ohms
Number of Channels:	02
Output Power:	90W RMS (2 x 45W RMS)
Supply Voltage:	8 ~ 16VDC
Max. Musical Consumption:	3.8A
Max. Sinusoidal Consumption:	7.6A
Frequency Response (Full Range):	80Hz ~ 40KHz (-3dB)
Input Impedance:	1K Ohm
Protection System:	Output Overload / Thermal Protection
Dimensions (W x H x L):	89 x 29 x 119mm (3.50" x 1.14" x 4.69")
Weight:	0,1Kg (0.22lb)

*Power measured at 1KHz, resistive load at nominal impedance, with THD less than 10% and supply voltage = 14.4VDC.
- Due to natural tolerances of internal components and manufacturing process, technical features may vary.
For further informations or questions please refer to the instruction manual or contact TARAMPS support.



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