

# Instruction manual



---

**CRX4**  
Electronic 4 way Crossover



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

- 01** • Term of warranty
  - Technical assistance
  
- 02** • Introduction
  - Safety requirements
  - Key recommendations
  - Safety
  
- 03** • Crossover overview
  
- 04** • Pass thru
  - Low way
  
- 05** • Low Mid Way
  - High Mid Way
  - High Way
  
- 06** • Input & output connections
  
- 07** • Technical features

## 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](http://www.taramps.com.br/en/rede-de-assistencias-tecnicas) or contact direct the factory support:

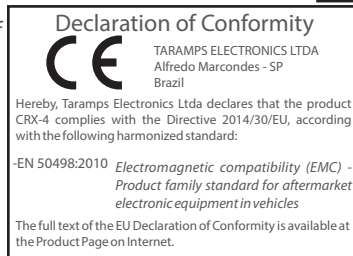
Phones: +55 18 3266-4050 / +55 18 99749-3391

E-mail: [service@taramps.com.br](mailto:service@taramps.com.br)

## Introduction

Read this manual before installing the product. In case of questions contact our technical support:

+55 (18) 3266-4050 or [www.taramps.com.br](http://www.taramps.com.br).



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

## Safety requirements



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

- The installation of this product must be done by a qualified professional.
- Use the correct tools for installing this product.
- This product is for use with 12V batteries. Always check the voltage before installing.
- Never install the product 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.
- Avoid running wires over or through sharp edges. Use rubber or plastic grommets to protect any wires routed through car's body.
- Automotive sound systems may produce high sound pressure levels. Avoid continuous exposure to levels over 85dB to prevent permanent hearing loss.

## Key recommendations

The wire gauge for power supply connections is 1,5mm<sup>2</sup> (15 AWG) for positive and negative wires, and 0,50mm<sup>2</sup> (20 AWG) for remote signal wire.

For protection against overload, install a fuse on positive wire, close to battery terminal (1A). See page 06.

- 1 -  Power supply negative: Connect to negative pole of battery.
- 2 - Remote signal input: Connect to remote signal output from head unit.
- 3 -  Power supply positive: Connect to positive pole (12V) of battery.

## Safety

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



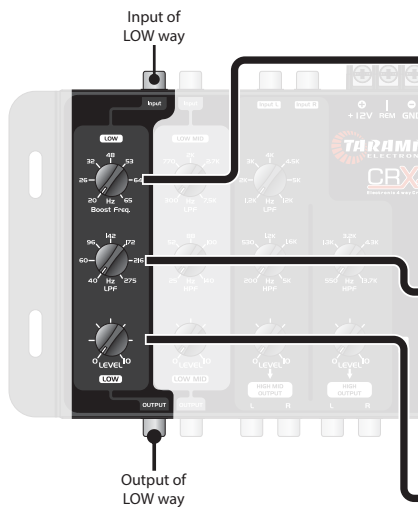
This symbol with **"CAUTION"** is intended to alert the user to the presence of important instructions. Failure to heed the instructions will result in risk of injury to user or product damage.



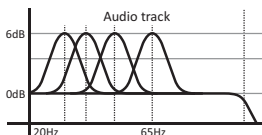
Taramps reserves the right to modify the contents of this document at any time without prior notice and does not have the obligation to apply the changes in units which were previously produced.



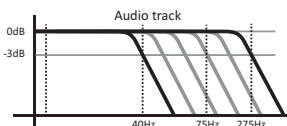
- 1 Signal input (mono) for bass / subwoofer (LOW) way
- 2 Signal input (mono) for LOW MID way
- 3 Signal input (L channel) for mid-treble (HIGH MID) and high (HIGH) way
- 4 Signal input (R channel) for mid-treble (HIGH MID) and treble (HIGH) way
- 5 Power connector
- 6 Signal output (mono) of bass / subwoofer (LOW) way
- 7 Signal output (mono) of LOW MID way
- 8 Signal outputs (L and R) of HIGH MID way
- 9 Signal outputs (L and R) of HIGH way
- 10 Ways filters and controls
- 11 LED indicator ON



**Boost Freq.** - Setting the frequency of the BASS-BOOST operation. In the example below, the frequencies between 20Hz and 65Hz will have an approximate 6dB boost.

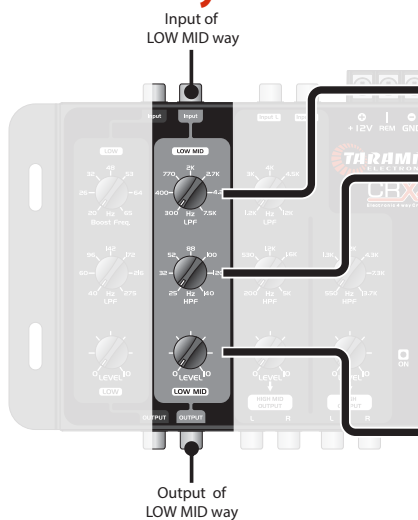


**LPF** - Setting the upper cut-off frequency. Variable from 40Hz to 275Hz which determines the end of the operating frequency of the LOW way.



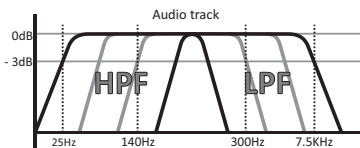
**LEVEL** - Adjust the output level of this LOW channel.

# Low Mid Way



**LPF** - Setting the upper cut-off frequency. Variable from 300Hz to 7.5KHz which determines the end of the operating frequency of the LOW MID way.

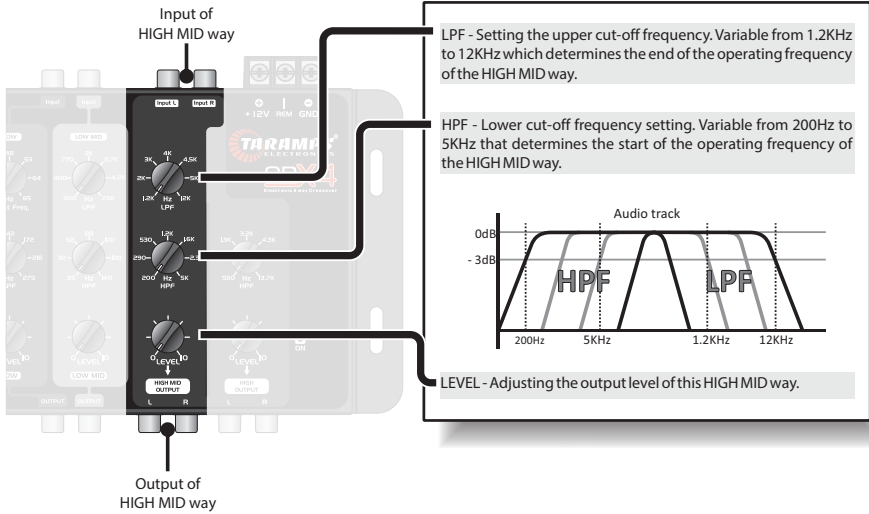
**HPF** - Lower cut-off frequency setting. Variable from 25Hz to 140Hz which determines the start of the operating frequency of the LOW MID way.



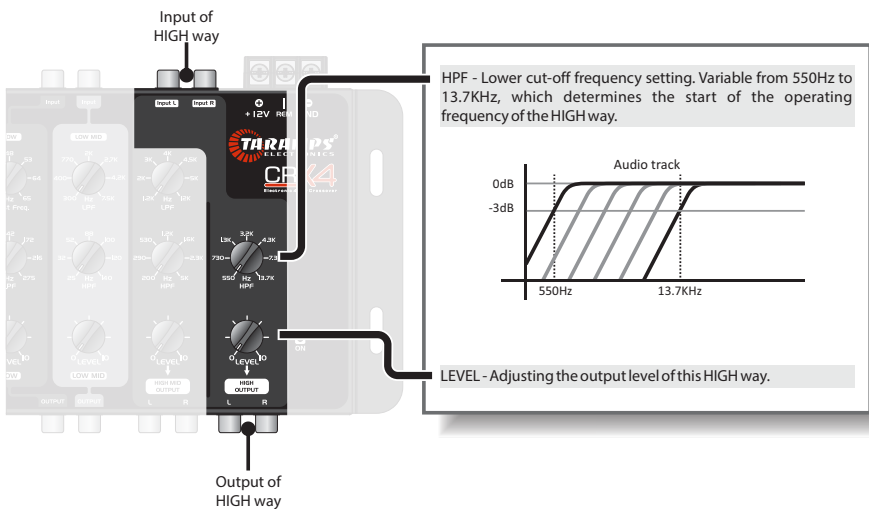
**LEVEL** - Adjust the output level of this LOW MID way.

# High Mid Way

ENGLISH



# High Way

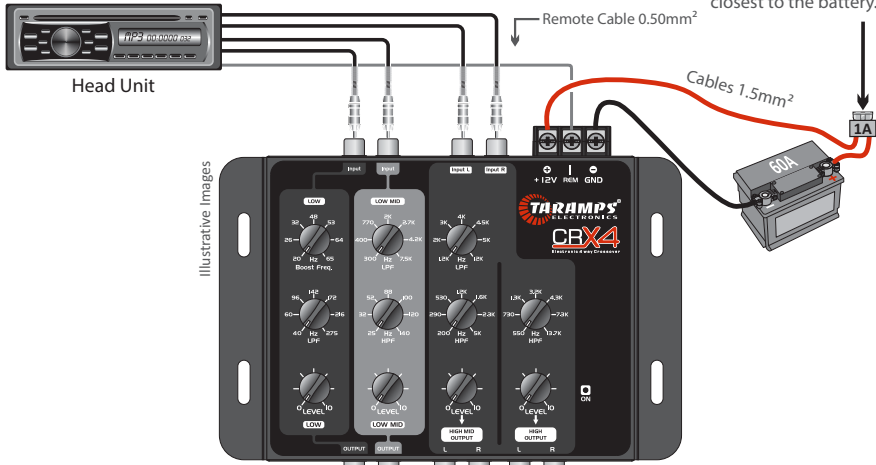


# Input & output connections

ENGLISH



**CAUTION**  
It is mandatory to install a 1A protection fuse closest to the battery.

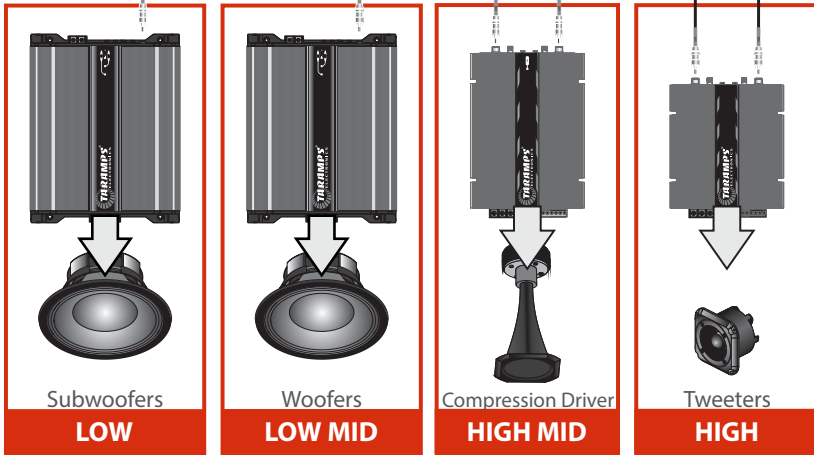


Illustrative Images



**IMPORTANT:** Any connection to the Crossover must be made with it turned off.

RCA Cables  
Taramps



Subwoofers  
**LOW**

Woofers  
**LOW MID**

Compression Driver  
**HIGH MID**

Tweeters  
**HIGH**

# Technical features

Number of ways:.....4

## Via Low / Low way (Mono)

Cutting frequency / Variable (LPF).....40Hz ~ 275Hz (-12dB/8<sup>a</sup>)

## Bass Boost:

Frequency Central Variable.....20 ~ 65Hz (6dB / Fixed gain)

## Via Low Mid / Low Mid way (Mono)

Minimum frequency of (cut HPF) / Variable.....25Hz ~ 140Hz (-12dB/8<sup>a</sup>)

Maximum frequency of (cut LPF) / Variable.....300Hz ~ 7.5KHz (-12dB/8<sup>a</sup>)

## Via High Mid / High Mid way (Stereo)

Minimum frequency of (cut HPF) / Variable.....200Hz ~ 5KHz (-12dB/8<sup>a</sup>)

Maximum frequency of (cut LPF) / Variable.....1.2KHz ~ 12KHz (-12dB/8<sup>a</sup>)

## Via High / High way (Stereo)

Cutting frequency / Variable.....550Hz ~ 13.7KHz (-12dB/8<sup>a</sup>)

Harmonic Distortion (THD):.....<0,01% ~ 1KHz

Output Impedance:.....27K ohms

Maximum input level:.....8V RMS

Maximum output level:.....8V RMS

Crosstalk:.....>80dB

Protection:.....Reverse polarity

Power supply:.....With switched-mode DC-DC converter

Voltage Range:.....10 ~ 15.5VDC

Nominal Consumption (12.6V):.....0.38A

Dimensions (WxHxD):.....181x 40 x 145mm / 7.13" x 1.57" x 5.71"

Weight:.....0,550Kg / 1.21lb





+55 18 3266-4050

Manufactured by:  
TARAMPS ELECTRONICS LTDA  
TAX ID: 11.273.485/0001-03  
Street: João Silvério, 121 • Res. Manoel Martins  
Alfredo Marcondes - SP  
Made in Brazil  
[www.taramps.com.br](http://www.taramps.com.br)