

Instruction manual



CRX5plus
Electronic 5 way Crossover



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

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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 or contact direct the factory support:

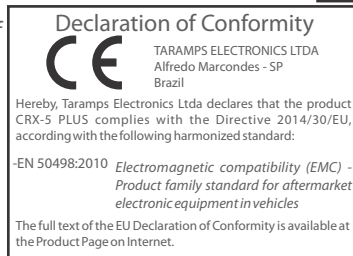
Phones: +55 18 3266-4050 / +55 18 99749-3391

E-mail: service@taramps.com.br

Introduction

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

+55 (18) 3266-4050 or 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 1,5mm² (15 AWG) for positive and negative wires, and 0,50mm² (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

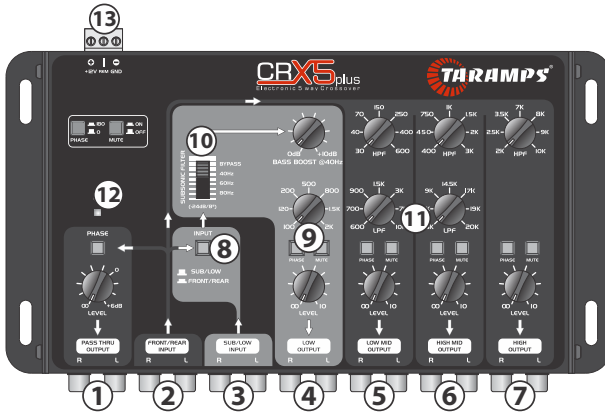
As you read this manual, pay attention to the safety symbols.



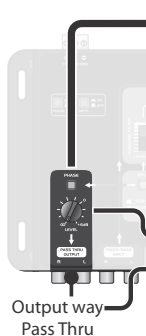
This symbol with “**CAUTION**” is intended to alert the user to the presence of important instructions. Failure to heed the instructions will result in risk of injury to user or product damage.



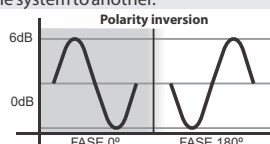
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- 1 Signal output (R + L)
- 2 Signal inputs sent directly from a CD / DVD Player
- 3 Signal inputs (SUB) sent directly from a CD / DVD Player (Optional)
- 4 Signal output, bass / subwoofer (LOW) (R + L)
- 5 Signal output, LOW MID (R + L)
- 6 Way signal output HIGH MID (R and L)
- 7 Way signal output HIGH (R and L)
- 8 LOW input selector switch
- 9 PHASE- Phase Inverter: Inverts phase 0/180 of each route
MUTE - Enable / Disable the audio of each track
- 10 Subsonic filter
- 11 Way filter controls
- 12 LED indicator
- 13 Power connector



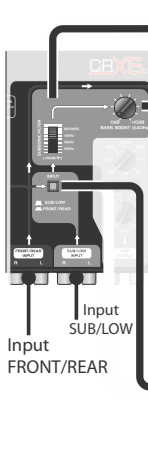
PHASE (0 and 180°) - Inverts the phase from 0 to 180°, to help reduce cancellations from one path to another, or from one system to another.



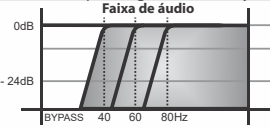
LEVEL - PASSTHRU output volume control.

PASS THRU - FLAT signal output, that is, without any frequency cut, normally used to send the signal to another sound system.

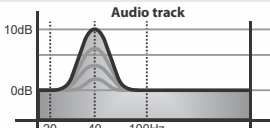
LOW WAY



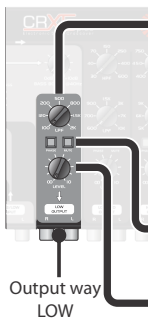
SUBSONIC FILTER - High pass filter at (-24dB/8th), its function is to control the excessive displacement of the speakers, thus improving the efficiency of the system.



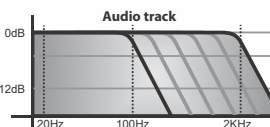
BASS BOOST - Reinforcement of low frequencies (sub-bass), varying the amplitude from 0 to +10 dB at 40Hz.



INPUT - Selector switch for the LOW track input. If your CD/DVD Player has Sub outputs, leave the switch loose and use the Sub/Low inputs (optional). If you don't have one, leave it pressed and use the Font/Rear inputs (normal connection).



LPF - Upper cutoff frequency adjustment. Variable from 100Hz to 2KHz, which determines the end of the LOW track operating frequency.



PHASE: Inverts the phase 0 / 180 of each lane.

MUTE - Enables/Disables the audio for each channel.

LEVEL - LOW output volume control.

HPF - Adjustment of the lower cutoff frequency. Variable from 30Hz to 600Hz that determines the beginning of the operating frequency of the LOW MID path.

LPF - Upper cutoff frequency adjustment. Variable from 600Hz to 10KHz that determines the end of the operating frequency of the LOW MID track.

LEVEL - Adjustment of the output level of this LOW MID path.

Output way LOW MID

Audio track

HIGH MID WAY

HPF - Adjustment of the lower cutoff frequency. Variable from 400Hz to 3KHz that determines the beginning of the operating frequency of the HIGH MID path.

LPF - Upper cutoff frequency adjustment. Variable from 5KHz to 20KHz that determines the end of the operating frequency of the HIGH MID path.

LEVEL - HIGH MID output volume control.

Output way HIGH MID

Audio track

HIGH WAY

HPF - Adjustment of the lower cutoff frequency. Variable from 2KHz to 10KHz, which determines the beginning of the operating frequency of the HIGH path.

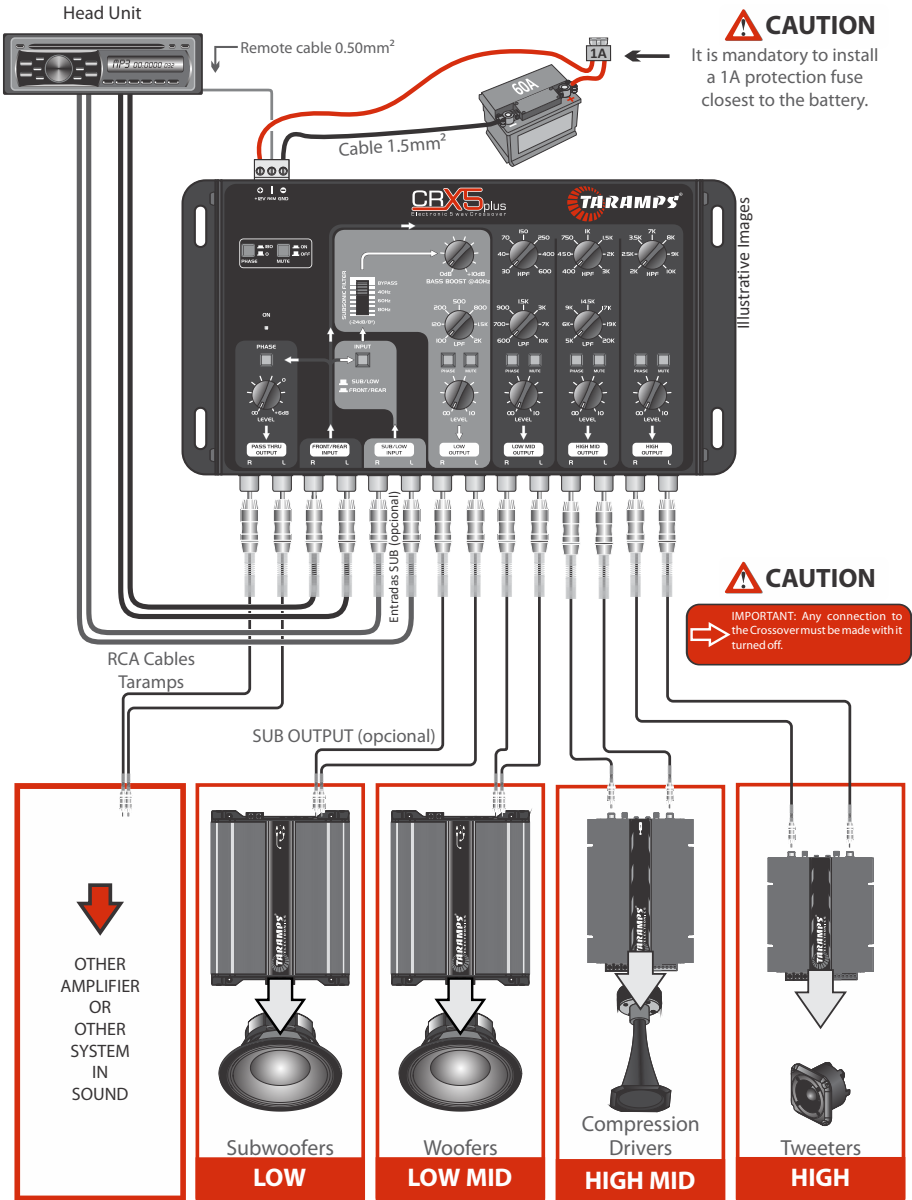
LEVEL - HIGH output volume control.

Output way HIGH

Audio track

Input & output connections

ENGLISH



Number of ways:.....4 + 1 Pass Thru

Via Pass Thru (R+L)

Selectable phase:.....0/180 degrees

Variable level.....-infinite ~ +6dB

Via Low (R+L) Mono

Subsonic Filter:.....Selectable (Bypass/40/60/80Hz) (-24dB/8^a butterworth)

Low Pass Filter:.....Variable 100Hz ~ 2KHz (-12dB/8^a Linkwitz-Riley)

Bass Boost:.....Variable 0 ~ +10 dB (40Hz)

Selectable Phase:.....0/180 degrees

Selectable Phase:.....-infinite ~ +10dB

Via Low Mid (R+L) Mono

High Pass Filter:.....Variable 30Hz ~ 600Hz (-12dB/8^a Linkwitz-Riley)

Low Pass Filter:.....Variable 600Hz ~ 10KHz (-12dB/8^a Linkwitz-Riley)

Fase Selectable:.....0/180 degrees

Variable level.....-infinite ~ +10dB

Via High Mid (R e L) Stereo

High Pass Filter:.....Variable 400Hz ~ 3KHz (-12dB/8^a Linkwitz-Riley)

Low Pass Filter:.....Variable 5KHz ~ 20KHz (-12dB/8^a Linkwitz-Riley)

Selectable Phase:.....0/180 degrees

Variable level.....-infinite ~ +10dB

Via High (R e L) Stereo

High Pass Filter:.....Variable 2KHz ~ 10KHz (-12dB/8^a Linkwitz-Riley)

Selectable Phase:.....0/180degrees

Variable level.....-infinite ~ +10dB

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

Input Impedance:.....10K ohms

Output Impedance:.....470K ohms

Maximum input level R/L:.....4,57 V RMS @ (+15,4 dBu)

Maximum output level R/L:.....9,3 V RMS @ (+21,6 dBu)

Maximum output level Pass Thru R/L:.....9,3 V RMS @ (+21,6 dBu)

Crosstalk:.....85dB

Frequency Response:.....(-1dB) 10Hz ~100KHz

Protection:.....Reverse polarity

Voltage Range:.....10,5 ~ 16VDC

Nominal Consumption (12.6V):.....420mA @ 12,6 Vcc

Dimensions (WxHxD):.....238 x 40 x 145mm / 9.37" x 1.57" x 5.71"

Weight:.....0,70Kg / 1.54lb



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