



RECOIL[®]

CRX-PRO

Electronic 5-Way Crossover

User Manual

TERM OF WARRANTY

Recoil Audio 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, Recoil 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.recoilaudio.com or contact direct the factory support: E-mail: support@recoilaudio.com

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.

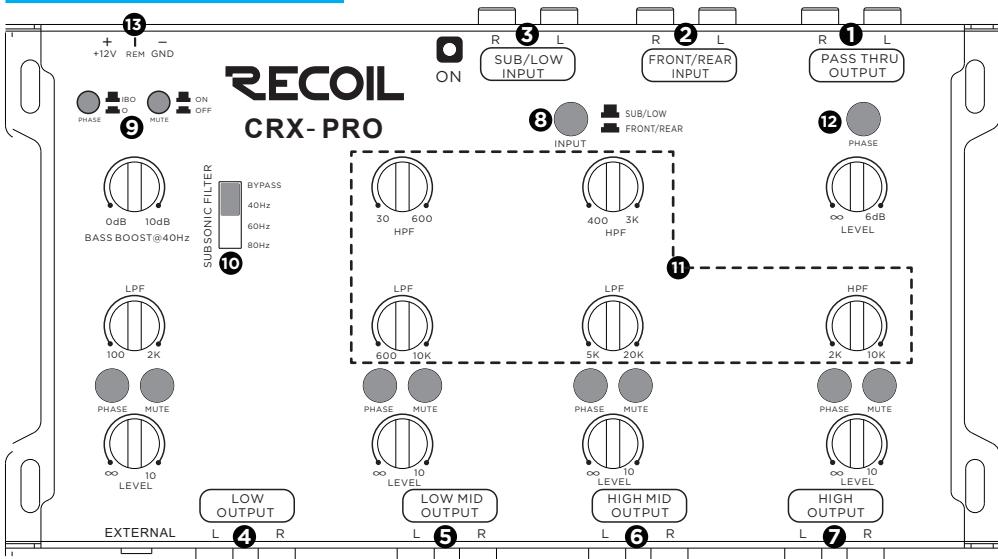
KEY RECOMMENDATIONS

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.

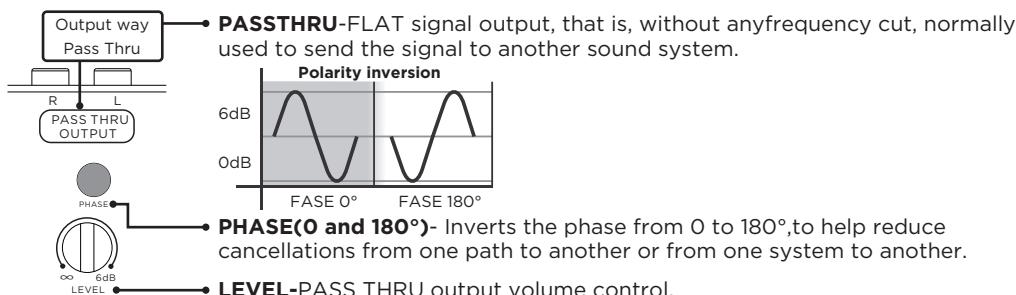
1. ⊖ Power supply negative: Connect to negative pole of battery.
2. Remote signal input: Connect to remote signal output from head unit.
3. ⊕ Power supply positive: Connect to positive pole (12V) of battery.

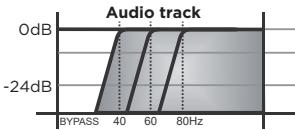
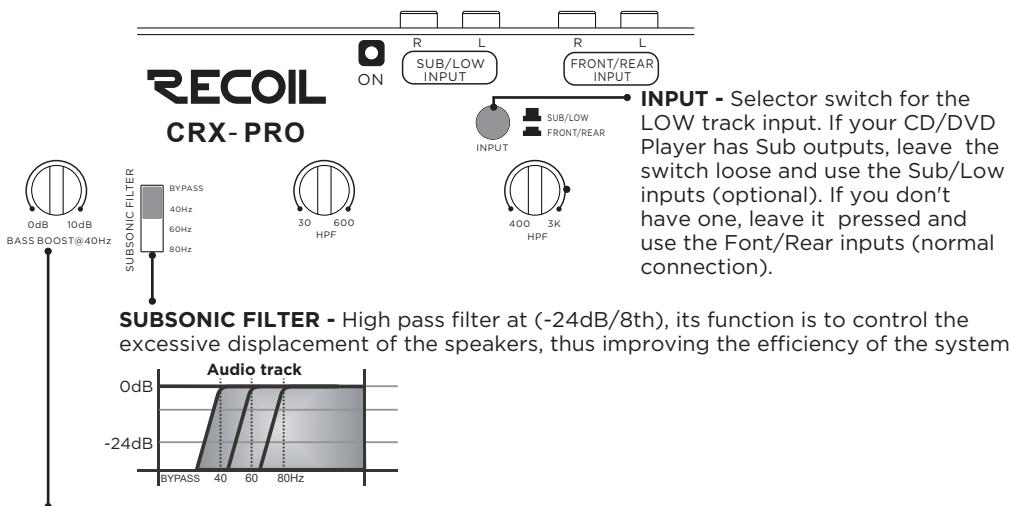
CROSSOVER OVERVIEW



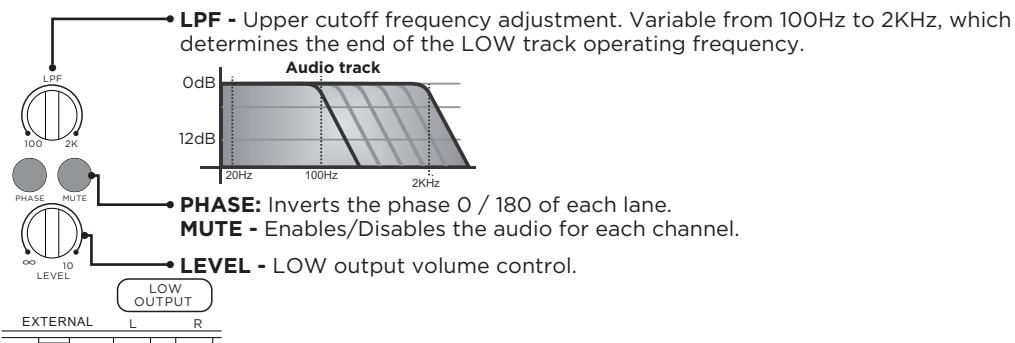
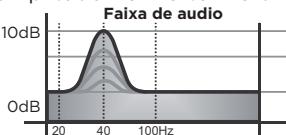
1. Signal pass thru output (R + L)
2. Signal inputs sent directly from a CD / DVD Player
3. Signal inputs (SUB) sent directly from a CD / DVD Player (Optional)
4. Signal output bass / subwoofer (LOW) (R + L)
5. Signal output LOW MID (R + L)
6. Signal output HIGH MID (R + L)
7. Signal output HIGH (R + 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. Crossover filter controls
12. LED indicator
13. Power connector

PASS THRU

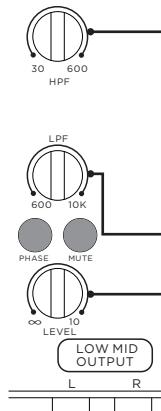


LOW INPUT & OUTPUT

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



LOW MID OUTPUT



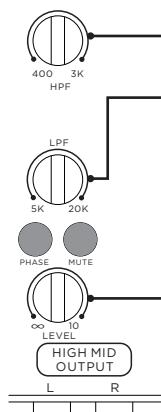
• **HPF** - Adjustment of the lower cutoff frequency. Variable from 30Hz to 600Hz that determines the beginning of the operating frequency of the LOW MID path.



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

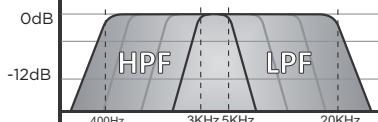
• **LEVEL** - Adjustment of the output level of this LOW MID path.

HIGH MID OUTPUT



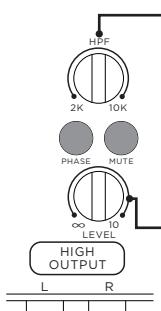
• **HPF** - Adjustment of the lower cutoff frequency. Variable from 400Hz to 3KHz that determines the beginning of the operating frequency of the HIGH MID path

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

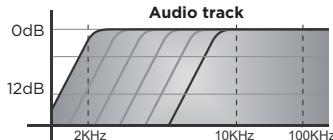


• **LEVEL** - HIGH MID output volume control.

HIGH OUTPUT

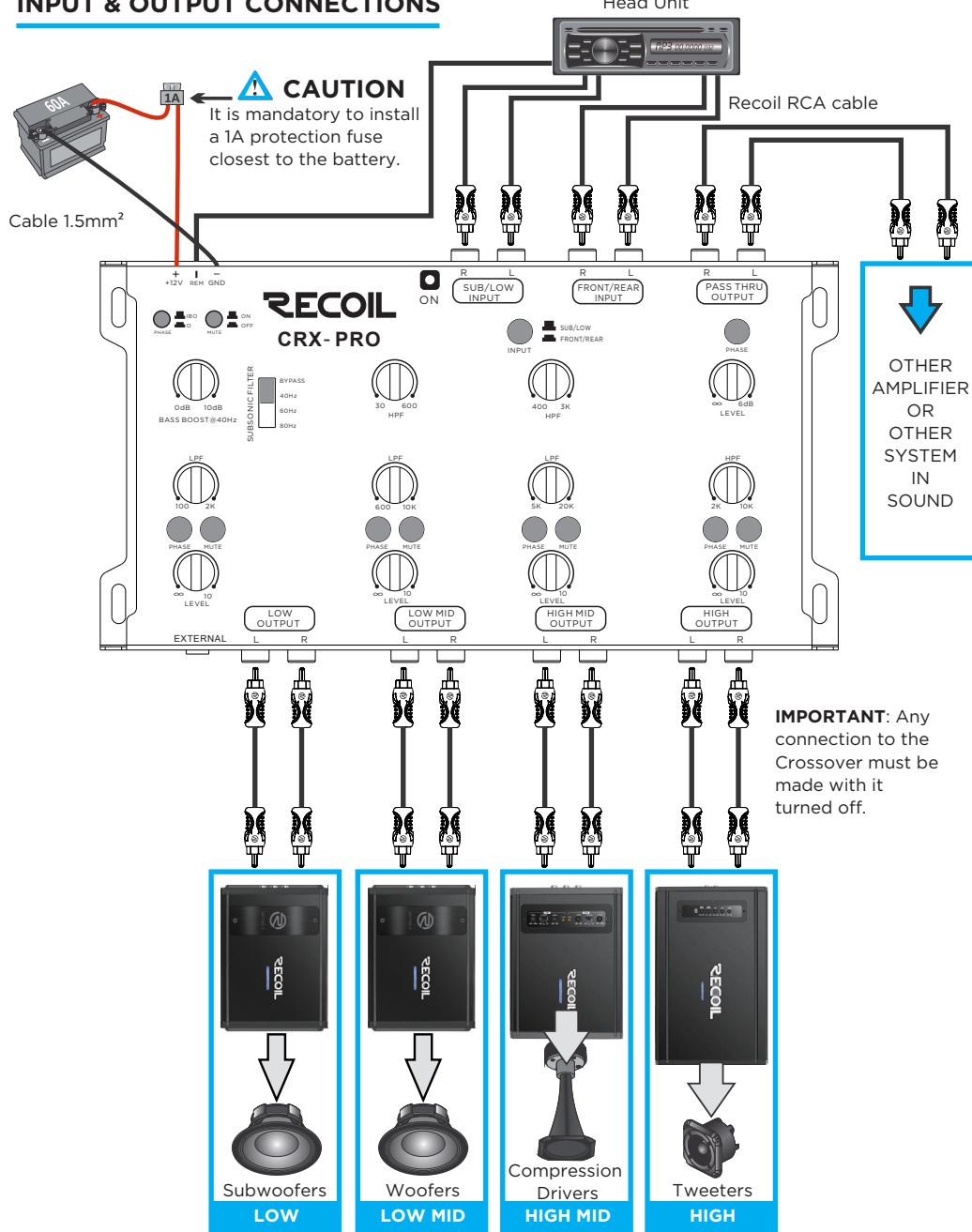


• **HPF** - Adjustment of the lower cutoff frequency. Variable from 2KHz to 10KHz, which determines the beginning of the operating frequency of the HIGH path.



• **LEVEL** - HIGH output volume control.

INPUT & OUTPUT CONNECTIONS



TECHNICAL FEATURES

| | |
|---|---|
| Number of outputs | 4 + 1 PassThru |
| Via PassThru (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 | 4,57V RMS @ (+15,4 dBu) |
| Maximum output level R/L | 9,3 V RMS @ (+21,6 dBu) |
| Maximum output level PassThru R/L | 9,3V RMS @ (+21,6 dBu) |
| Crosstalk | 85dB |
| Frequency Response | (-1dB) 10Hz ~100KHz |
| Protection | Reverse polarity |
| Voltage Range | 10,5 ~ 16VDC |
| Nominal Consumption (12,6V) | 420mA @ 12,6Vcc |
| Dimensions (WxHxD) | 224 X 116 X 30mm / 8.81" x 4.56" x 1.18" |
| Weight | 0.70Kg / 1.54(lb) |

User Manual



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