

■ Warranty

LIMITED ONE-YEAR CONSUMER WARRANTY

LIMITED TWO-YEAR CONSUMER WARRANTY WITH PURCHASE AND INSTALLATION BY A PRECISION POWER AUTHORIZED DEALER

Precision Power promises to the original purchaser, to repair or replace this product with a new or refurbished unit (at Precision Power's sole and absolute discretion) should it prove to be defective in workmanship or material under normal use, for a period of ***two-years** from the date of purchase from the Precision Power authorized dealer, **PROVIDED** the product was purchased and installed by a Precision Power authorized dealer. During this ***two-year** period, there will be no charge for product repair or replacement, **PROVIDED** the unit is returned to Precision Power, return shipping pre-paid, along with the required proof of installation, the bill of sale or other dated proof of purchase, and the consumer's contact information.

If the unit is installed by anyone other than a Precision Power authorized dealer, the warranty period will be **90-days** from the date of purchase. This warranty is non-transferable and does not apply to any unit that has been modified or used in a manner contrary to its intended purpose, and does not cover damage to the unit caused by installation or removal of the unit. During this **90-day** period, there will be no charge for the repair or replacement **PROVIDED** the unit is returned to Precision Power, return shipping prepaid, along with the bill of sale or other dated proof of purchase and the consumer's contact information.

This warranty is void if the product has been damaged by accident or unreasonable use, neglect, improper service or other causes not arising out of defects in materials or construction. This warranty does not cover the elimination of externally generated static or noise, or the correction of antenna problems or weak reception, damage to speakers, accessories, electrical systems, cosmetic damage or damage due to negligence, misuse, failure to follow operating instructions, accidental spills or customer applied cleaners, damage due to environmental causes such as floods, airborne fallout, chemicals, salt, hail, lightning or extreme temperatures, damage due to accidents, road hazards, fire, theft, loss or vandalism, damage due to improper connection to equipment of another manufacturer, modification of existing equipment, or Product which has been opened or tampered for any reason. Units which are found to be damaged by abuse resulting in thermally damaged voice coils are not covered by this warranty but may be replaced at the absolute and sole discretion of Precision Power. Unit must be returned to Precision Power, postage pre-paid, with bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number, and address, authorized dealer's name and address, and product description. **Please contact Precision Power warranty office at 800-724-1377 or repairs@precisionpower.com to obtain a Return Authorization number & address prior to shipping the product.**

Note: This warranty does not cover labor costs for the removal and reinstallation of the unit. **IN ORDER FOR THE TWO-YEAR WARRANTY TO BE VALID, YOUR UNIT MUST BE SHIPPED WITH PROOF OF INSTALLATION BY A PRECISION POWER AUTHORIZED DEALER. ALL UNITS RECEIVED BY PRECISION POWER FOR WARRANTY REPAIR WITHOUT PROOF OF PRECISION POWER AUTHORIZED DEALER INSTALLATION AND PURCHASE WILL BE COVERED BY THE LIMITED 1 YEAR WARRANTY.**

BY PURCHASING THIS PRODUCT, ALL WARRANTIES INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY ARE EXPRESSLY EXCLUDED TO THE MAXIMUM EXTENT ALLOWED BY LAW, AND PRECISION POWER NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT. PRECISION POWER HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. BY PURCHASING THIS PRODUCT, THE CONSUMER AGREES AND CONSENTS THAT ALL DISPUTES BETWEEN THE CONSUMER AND PRECISION POWER SHALL BE RESOLVED IN ACCORDANCE WITH CALIFORNIA LAWS IN LOS ANGELES COUNTY, CALIFORNIA. Some states do not allow limitation on how long an implied warranty lasts. In such states, the limitation or exclusions of this Limited Warranty may not apply. Some states do not allow the exclusion or limitation of incidental or consequential damages. In such states, the exclusion or limitation of this Limited Warranty may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights which vary from state to state.

end

PrecisionPower®

INT.5B

OEM INTEGRATION WITH BASS PROCESSOR

Owner's Manual and Installation Guide

■ Introduction

Thank you for choosing Precision**Power** audio equipment. At Precision**Power**, we proudly design and engineer the world's finest audio products. Our award winning products utilize innovative design and technology to consistently deliver **Absolutely State of the Art** performance, sound quality, reliability, and value. This Precision**Power** product reflects our commitment to offer you unparalleled versatility and quality for years of dependable service and listening enjoyment.

■ Service & Warranty

Do not attempt to service Precision**Power** products yourself. Performing exploratory surgery on your audio equipment yourself will void the warranty. Many parts of your Precision**Power** gear are custom built to our specifications. Our factory parts are not made available to anyone else nor are they for sale. Our goal is to make sure that your Precision**Power** product will always sound as good as the day it was purchased. Contact your authorized Precision**Power** dealer about obtaining any warranty service through Precision**Power**.

(See Warranty inside back cover)

■ Cautions

High-powered car audio systems may produce sound pressure levels that exceed the threshold at which hearing loss may result. They may also impair a driver's ability to hear traffic sounds or emergency vehicles. Use common sense and practice safe listening habits when listening to or adjusting your audio system.

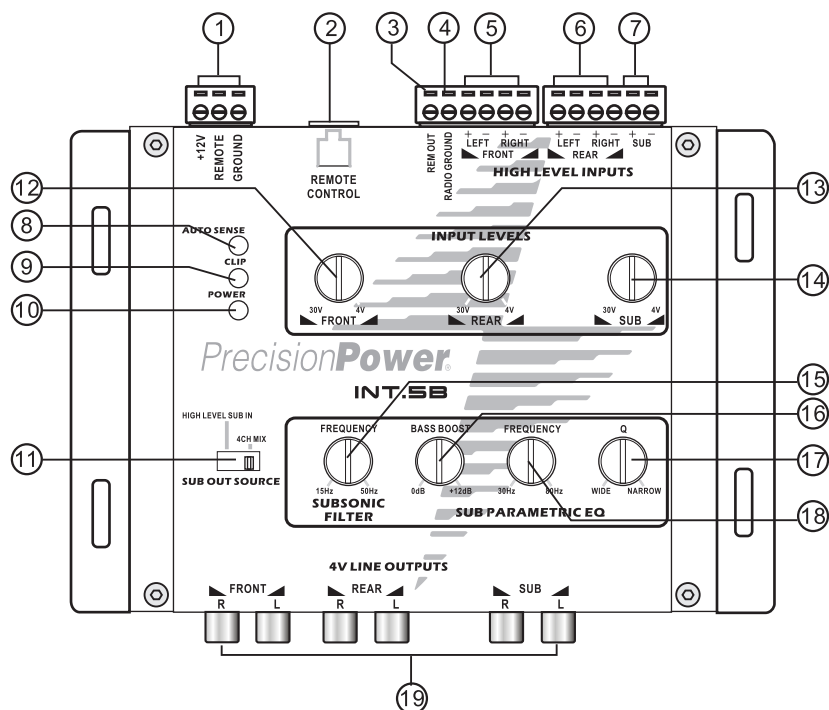
■ Features

- 5 Channels Hi-Level input
- 4V-30V Input Sensitivity
- Variable 30-80Hz Bass EQ
- Variable 0-12dB Bass Boost
- Variable Boost Q
- Subwoofer Input Selector
- 15-50Hz Subsonic Filter
- Remote Subwoofer Gain Control
- Front, Rear and Sub Low Level Outputs
- Delayed Remote Turn-on Output
- On-Board Clip Indicator
- Signal Sense Auto Turn-On

■ Specifications

Maximum Input Level	15 V rms
Maximum Output Level	13.5 V peak
Frequency Response	10Hz - 100KHz ; +/-1dB
Total Harmonic Distortion	0.03%
Signal to Noise Ratio.....	130dB
Balanced Input Noise Rejection.....	>60dB
Input Impedance.....	10 Kohm
Output impedance.....	150 Ohms
Power Supply	High Headroom PWM
Power draw.....	150 mA
Recommend fuse rating	1 Amp

■ Functions And Operations:



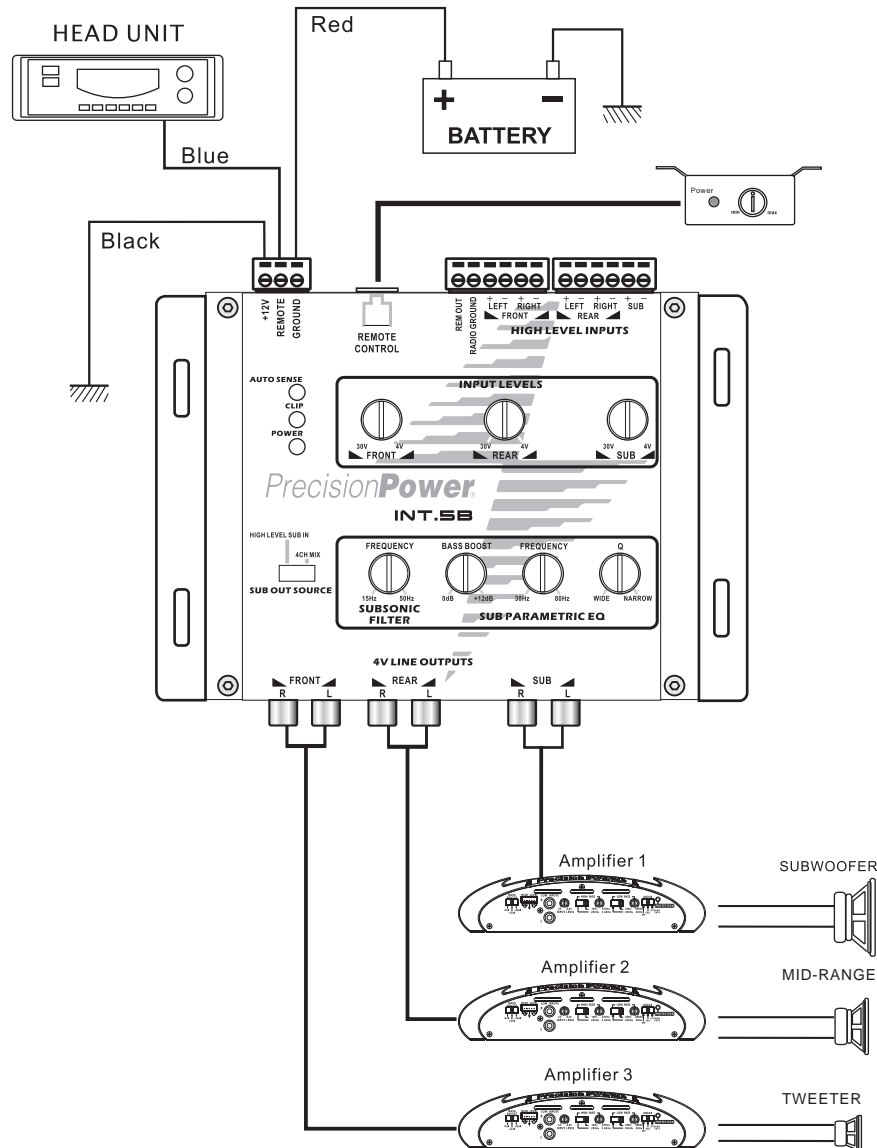
- 1. Power, Ground, & Remote Disconnect:** Secure +12V constant power, ground, and factory source unit remote turn-on (if available) connections to the appropriate terminal of the supplied disconnect plug.
- 2. Remote Control Module Connection:** Connect one end of the supplied Remote Control Module Cable to this port. The other end should connect to the Remote Control Module.
- 3. Delayed Remote Turn-On:** Connect a lead to the remote turn-on terminals of the other components in the audio system. This remote turn-on has a built-in delay to eliminate unwanted pops.
- 4. Radio Ground:** Connecting a wire from this terminal to the Radio's ground wire will eliminate ground loops and eliminate or greatly reduce this type of induced noise.
- 5. Front High Level Input:** Connect the front left and front right factory source unit speaker level outputs to the High Level Front Input terminals. (consult the vehicle manufacturer for the correct factory source unit wire configuration)
- 6. Rear High Level Input:** Connect the rear left and rear right source unit speaker level outputs to the High Level Rear Input terminals. (consult the vehicle manufacturer for the correct factory source unit wire configuration)
- 7. High Level Subwoofer Input:** Connect the subwoofer source unit speaker level outputs to the High Level Subwoofer Input terminals. If the factory stereo system does not have a subwoofer and subwoofer control within the source unit, set the Subwoofer Source Selector to 4 Ch. Mix, eliminating the need for a High Level Subwoofer Input connection. See #11 Subwoofer Source Selector below for further information.

- 8. Signal Sense Indicator:** The Current Sense Indicator will illuminate if the processor has been activated by receiving power from the remote input, or sensing audio signal to the high-level inputs. Signal sensing eliminates the need to connect remote turn-on power. A built-in delay prevents the processor from turning off between song tracks. The processor remains active approximately 1 minute after audio signal is lost.
- 9. Clipping Indicator:** The Clipping Indicator will illuminate if the Low Level Output signal is clipped regardless of voltage. A clipped signal is noticeable to a trained ear in the form of distortion, which can and will cause damage to all speakers.
- 10. Power Indicator:** The Power Indicator will illuminate when and while the unit is receiving power.
- 11. Subwoofer Source Selector** Set the Subwoofer Source Selector to High Level Sub In if the factory source unit has speaker level outputs and source unit control for a factory subwoofer. Connect the factory source unit subwoofer speaker level outputs to the High Level Subwoofer Input terminals. If the source unit does not have subwoofer control or dedicated subwoofer high level output wires, then set the Subwoofer Source Selector to 4 Ch. Mix. The processor will now use the signal from the Front & Rear High Level Inputs as the subwoofer signal.
- 12. Front Channel Input Sensitivity:** Set the Front Channel Input Sensitivity to closely match the factory source units maximum front channel output voltage. The minimum setting is 4V, the maximum is 30V. You can use the clipping indicator to help properly set this control. If the clipping indicator lights up frequently, then turn the control down a bit until the clipping indicator remains off.
- 13. Rear Channel Input Sensitivity:** Set the Rear Channel Input Sensitivity to closely match the factory source units maximum front channel output voltage. The minimum setting is 4V, the maximum is 30V. You can use the clipping indicator to help properly set this control. If the clipping indicator lights up frequently, then turn the control down a bit until the clipping indicator remains off.
- 14. Subwoofer Channel Input Sensitivity:** Set the Subwoofer Channel Input Sensitivity to closely match the factory source units maximum front channel output voltage. The minimum setting is 4V, the maximum is 30V. You can use the clipping indicator to help properly set this control. If the clipping indicator lights up frequently, then turn the control down a bit until the clipping indicator remains off.
- 15. Subsonic Filter Control:** Set the Subsonic Filter Control to the desired subsonic filter frequency. The minimum frequency is 15Hz, the maximum is 50Hz. Generally, subsonic filters are set between 20-30Hz to avoid harmful low frequencies that will damage subwoofers. The power wasted on subsonic frequencies will now be useful in the audible sub bass region.
- 16. Bass Boost Level Control:** This control allows you to set the amount of boost desired. Be careful not to overdrive the subwoofer and pay attention to the clipping indicator.
- 17. Boost Q Level:** will increase or decrease the bandwidth of frequencies boosted above and below the selected Bass Boost Frequency. The minimum setting of Narrow will boost only a small range of frequencies above and below the Bass Boost Frequency, while the maximum setting of Wide will boost the largest range of frequencies above and below the Bass Boost Frequency.
- 18. Bass Boost Frequency Control:** The Bass Boost Frequency Control will select the desired frequency to be boosted. The minimum frequency is 30Hz and the maximum is 80Hz.
- 19. Low-Level Front, Rear & Subwoofer Outputs:** RCA connections for Low-Level Front, Rear, & Subwoofer Output signal. Use RCA cables to connect the RCA outputs to the low-level inputs of the corresponding amplifier(s) if the source unit is equipped with RCA outputs.

ELECTRONIC CONNECTIONS & WIRING

Power connection

- **B+(12V)** : Connect a red wire to the car battery or other power source.
- **REMOTE** : Connect a blue wire to remote (12V DC) wire of car stereo.
- **GND** : Connect a black wire to the car chassis for ground connection.



TROUBLE SHOOTING GUIDE

If the unit does not turn-on, and /or the power indicator LED is NOT illuminated, do this:

- 1) Check and make sure that B+ and GND are not reversed.
- 2) Check that all power wires are properly connected and have 12 - 15 volts.
- 3) Check that the fuse is intact.

If you experience high audible distortion or low output volume:

- 1) Check that the input and output levels are set correctly. Input should match the source and output should match the sensitivity of the host.
- 2) Check the crossover settings; make sure they are correct.

If you experience whining or engine noises:

- 1) Verify that the GND connection is secure and the wire is not too thin and unnecessarily long.
- 2) Check that the B+ wire is not too thin and unnecessarily long.
- 3) Change the power source; try taking power from a different point.

INSTALLATION

TAPPING SCREW

SPRING WASHER

PLAIN WASHER

