

HIGH GAIN INPUT (1)

Used for most electric guitars. It is 6 dB louder than the Low Gain input.

LOW GAIN INPUT (2)

Provided for instruments that have extremely high outputs, which can result in overdriving (distorting) the High Gain input. If both inputs are used simultaneously, the output levels are the same (both are Low Gain).

PRE GAIN (3)

Controls the input volume level of the amplifier.

PRE-EQ PATCH JACKS (4)

Provided for connecting external effects devices into the signal path. To patch an effects device, connect the send jack to the input of the device. Connect the output of the device to the return jack. High-quality shielded cables should be used for these connections.

OPERATION NOTE:

Volume pedals may be patched in at this point; pedal output should be patched into "return", and "send" should be patched into pedal input. Instrument should connect directly to high or low gain inputs when volume pedal is connected in this configuration

LOW EQ (5)

An active tone control (shelving type, +/- 15 dB) that varies the low frequency range. CAUTION: Excessive low frequency boost causes greater power consumption and increases possibility of speaker damage.

MID EQ (6)

A passive tone control that adjusts mid frequencies.

SHIFT (7)

Shifts and selects the frequencies at which the Mid control operates.

HIGH EQ (8)

An active tone control (peak/notch type, +/- 15 dB) that varies the high frequency range.

PRESENCE (ACTIVE) (9)

An active tone control (+15dB) that varies the extreme high frequency range. 0 to +15 boost (increase).

SENSITIVITY (10)

Controls the overall volume level of the amplifier. The final level adjustment should be made after the desired sound has been achieved.

EFFECTS PATCH 1 (11)

Provided for connecting external effects devices into the signal path. To patch an effects device, connect the send jack to the input of the device. Connect the output of the device to the return jack. High-quality shielded cables should be used for these connections.

EFFECTS PATCH 2 (12)

Provided for connecting external effects devices into the signal path. To patch an effects device, connect the send jack to the input of the device. Connect the output of the device to the return jack. High-quality shielded cables should be used for these connections.

REVERB (13)

Reverberation is an echo effect. Rotate clockwise to increase the effect. Remote footswitch can control On/Off.

PILOT LIGHT LED (14)

Illuminates when AC power is being supplied to the amp.

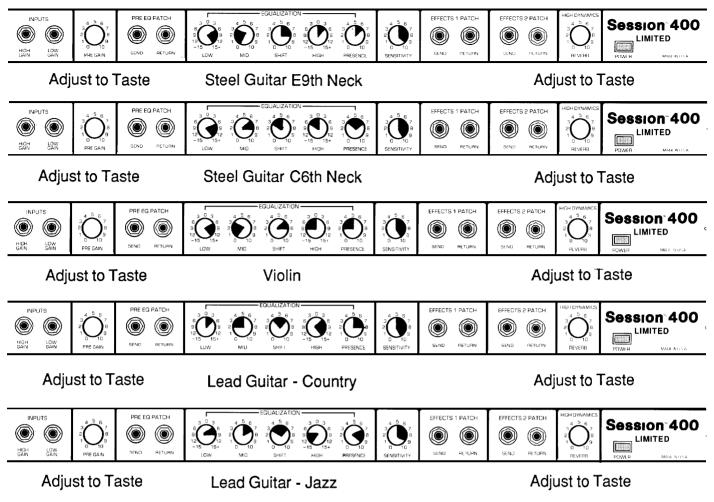
GROUND SWITCH (15)

Three position rocker-type switch which, in most applications, should be operated in its center or zero position. There may be some situations when audible hum and/or noise will come from the loudspeaker. If this situation arises, position the ground switch to either positive or negative (+ or -) or until the noise is minimized. NOTE: Should the noise problem continue, consult your Authorized Peavey Dealer, the Peavey Factory, or a qualified service technician. THE GROUND SWITCH IS NOT FUNCTIONAL ON 220/240 VOLT MODELS.

POWER SWITCH (16)

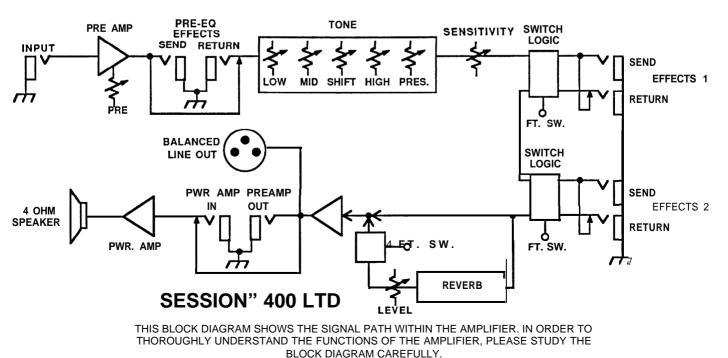
Depress the switch to the "On" position. The red pilot light (LED) will illuminate indicating power is being supplied to the unit.

Tone Settings



Tone settings given are general and will vary according to type of guitar, type and gauges of strings, type of pickup and even type of pick. Personal taste, playing style, and type of music greatly contribute to desired tonality.

BLOCK DIAGRAM



SESSION® 400 LIMITED ENGINEERING SPECIFICATIONS

POWER AMPLIFIER SECTION

Rated Power & Load 210 Watts into 4 ohms with DDT™ compression

Power @ Clipping: (typical) (5% THD, 1 kHz, 120 VAC line) 240 Watts RMS into 4 ohms

Frequency Response:

+0, -2 dB, 80 Hz to 10 kHz,@ 200 Watts RMS into 4 ohms

Total Harmonic Distortion:

Less than 0.2%, 100 mW to 200 Watts RMS, 60 Hz to 10 kHz, 4 ohms (typically below 0.1%)

Hum & Noise:

Greater than 100 dB below rated power

Power Consumption: (domestic) 600 Watts @ 120 VAC 60 Hz

PREAMP SECTION

The following specs are measured @1kHz with the controls preset as follows: Low & High EQ @ 0 dB Mid & Shift EQ @ 10 Presence EQ @ 0 Sensitivity @ 5

High dynamics reverb @ 0 Nominal levels are with pre gain @ 5 Minimum levels are with pre gain @ 10

Preamp High Gain Input:

Impedance: High Z, 220 K ohms Nominal Input Level: -22 dBv, 80 mV RMS Minimum Input Level: -36 dBv, 15mVRMS Maximum Input Level: +10 dBv, 3.0 V RMS

Preamp Low Gain Input: (6 dB pad)

Impedance: High Z, 44 K ohms Nominal Input Level: -16 dBv, 160 mV RMS Minimum Input Level: -30 dBv, 30 mV RMS Maximum Input Level: +16 dBv, 6.0 V RMS

Pre EQ Patch Send: (pedal send)

Load impedance: 10 K ohms or greater Nominal output: -12 dBv, 0.25 V RMS Maximum output: +8 dBv, 2.5 V RMS

Pre EQ Patch Return: (pedal return)

Impedance: High Z, 220 K ohms Designed input level: -12 dBv, 0.25 V RMS (Switching jack providing pre EQ patch send to pre EQ patch return connection when not used)

Effects 1 & 2 Patch Sends:

Load impedance: 1 K ohms or greater Nominal output: -10 dBv, 0.3 V RMS Maximum output: +10 dBv, 3 V RMS

Effects 1 & 2 Patch Returns:

Impedance: High Z, 100 K ohms Designed Input Level: -10 dBv, 0.3 V RMS (Switching jacks providing effects patch send to effects patch return connections when not used)

Preamp Out:

Load impedance: 1 K ohms or greater Nominal Output: 0 dBv, 1 V RMS Maximum Output: +18 dBv, 8 V RMS

Power Amp In:

Impedance: High Z, 10 K ohms Designed Input Level: 0 dBv, 1 V RMS (Switching jack providing preamp out to power amp in connection when not used)

Balanced Line Out:

Load Impedance: 600 ohms or greater Nominal Output: -10 dBv, 0.3 V RMS Maximum Output: +10 dBv, 3 V RMS (XLR male connector, transformer driven; special equalization circuitry employed)

System Hum & Noise @ Nominal Input Levels:

(20 Hz to 20 kHz unweighted) 84 dB below rated power

Equalization:

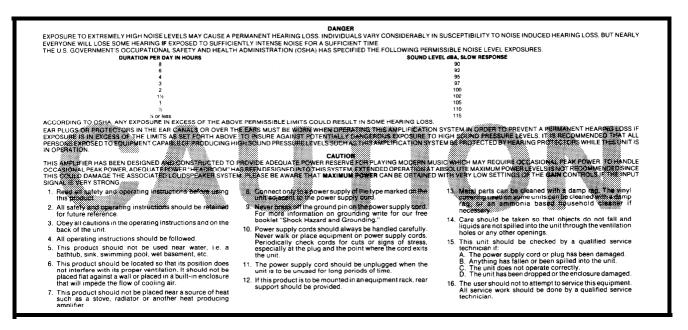
Low: +/-15dB@ 80 Hz, active shelving Mid: +0, -12 dB, passive notch Shift: 300 Hz to 1 kHz range of mid notch High: +/-15 dB@ 2 kHz, active peak/notch Pres: -0, +15dB@ 8 kHz, active shelving

External Footswitch Function:

Reverb defeat (when reverb control raised) Effects 1 patch return defeat Effects 2 patch return defeat

AN OPTIONAL COVER IS AVAILABLE FOR THE SESSION @ 400 LIMITED DIRECTLY FROM THE FACTORY. THE PART NUMBER IS #6890065 AND THE COST IS \$21.00.

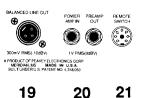
Prices, features and specifications are subject to change without notice.





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LINE CORD (17)

(120V products only)

For your safety, we have incorporated a 3-wire line (mains) cable with proper grounding facilities. It is not advisable to remove the ground pin under any circumstances. If it is necessary to use the equipment without proper grounding facilities, suitable grounding adaptors should be used. Less noise and greatly reduced shock hazard exists when the unit is operated with the proper grounded receptacles.

SPEAKER JACK (18)

Provided for connection of internal and/or external speakers. Minimum total impedance is 4 ohms.

BALANCED LINE OUT (19)

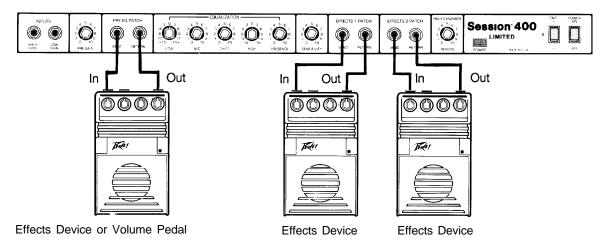
Provides 600 ohm, transformer balanced signal to be used as "direct" patch into mixing consoles, tape recorders, etc. The signal at this point has been frequency compensated for low noise operation.

PREAMP OUT/POWER AMP IN (20)

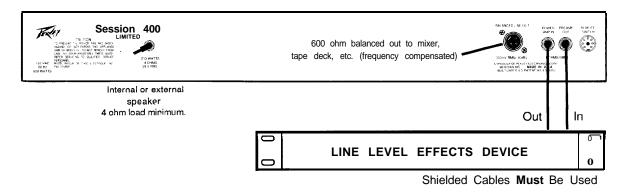
These jacks are provided for in-line patching of effects devices. To patch an effects unit, connect the Preamp Output to the Input of the device. Next, connect the output of the device to the Power Amp Input (high-quality shielded cables must be used for these connections). The Preamp Output can also be used to route the amplified signal to a mixing console, tape recorder, etc. Connect the Preamp Output, using a shielded cable, to an input of the tape recorder, mixer, etc. This patch does not affect the operation of the amplifier. NOTE: The preamp output level is approximately 1 volt RMS and is of relatively low impedance (600 ohms). Any effects device used in this effects loop must be capable of receiving 1 volt input and providing 1 volt output in order to properly drive the power amp. The Power Amp Input has an internal switch which disconnects the internal preamp.

FOOTSWITCH JACK (21)

Provided for connection of the supplied remote footswitch. Footswitch is used to defeat reverb, post effects loop 1, and post effects loop 2.



Shielded Cables Must Be Used



EFFECTS PATCH

THIS LIMITED WARRANTY VALID ONLY WHEN PURCHASED AND REGISTERED IN THE UNITED STATES OR CANADA. ALL EXPORTED PRODUCTS ARE SUBJECT TO WARRANTY AND SERVICES TO BE SPECIFIED AND PROVIDED BY THE AUTHORIZED DISTRIBUTOR FOR EACH COUNTRY. Ces clauses de garantie ne sont vaiables qu'aux Etats-Unis et au Canada. Dans tous les autres pays, les clauses de garantie et de maintenance sontfixees parle distributeur national et assuree par lui seion la legislation en vigueur.

Diese Garantie ist nur In den USA and Kanada gultig. Alle Export-Produkte sind der Garantie und dem Service des Importeurs des jewelligen Landes unterworfen Esta garantia es valida solamente cuando el producito es comprado en E.U. continentales o en Canada. Todos los producios que sean comprados en el extranjero, estan sujetos a las garantias y servicio que cada distribuidor autorizado determine y ofrezca en los diferentes paises

ONE-YEAR LIMITED WARRANTY/REMEDY

PEAVEY ELECTRONICS CORPORATION ("PEAVEY") warrants this product, EXCEPT for covers, footswitches, patchcords, tubes and meters, to be free from defects in material and workmanship for a period of one (1) year from date of purchase, PROVIDED, however that this limited warranty is extended only to the original retail purchaser and is subject to the conditions, exclusions and limitations hereinafter set forth:

PEAVEY 90-DAY LIMITED WARRANTY ON TUBES AND METERS

If this product contains tubes or meters, Peavey warrants thefubes or meters contained in the product to be free from defects in material and workmanship for a period of ninety (90) days from date of purchase, PROVIDED, however, that this limited warranty is extended only to the original retail purchaser and is also subject to the conditions, exclusions and limitations hereinafter set forth.

CONDITIONS, EXCLUSIONS AND LIMITATIONS OF LIMITED WARRANTIES

These limited warranties shall be void and of no effect if:

- a. The first purchase of the product is for the purpose of resale; or b. The original retail purchase is not made from an AUTHORIZED PEAVEY DEALER: or
- c. The product has been damaged by accident or unreasonable use, neglect, Improper service or maintenance, or other causes not arising out of defects in material or workmanship; or
- d. The serial number affixed to the product is altered, defaced or removed.
- In the event of a defect in material and/or workmanship covered by this limited warranty, Peavey will: a. In the case of tubes or meters, replace the defective component without charge;
- b. In other covered cases (i.e., cases involving anything other than covers, footswitches, patchcords, tubes or meters), repair the defect in material or workmanship or replace the product, at Peavey's option;
- and provided, however, that, in any case, all costs of shipping, if necessary, are paid by you, the purchaser. THE WARRANTY REGISTRATION CARD SHOULD BE ACCURATELY COMPLETED AND MAILED TO AND RECEIVED BY PEAVEY WITHIN FOURTEEN (14) DAYS FROM THE DATE OF YOUR PURCHASE.
- In order to obtain service under these warranties, you must:
- a. Bring the defective item to any AUTHORIZED PEAVEY DEALER or AUTHORIZED PEAVEY SERVICE CENTER and present therewith the ORIGINAL PROOF OF PURCHASE supplied to you by the AUTHORIZED PEAVEY DEALER in connection with your purchase from him of this product. If the DEALER or SERVICE CENTER is unable to provide the necessary warranty service you will be directed to the nearest other PEAVEY AUTHORIZED DEALER or
- AUTHORIZED PEAVEY SERVICE CENTER which can provide such service.

OR

b. Ship the defective item, prepaid, to:

PEAVEY ELECTRONICS CORPORATION

International Service Center

Highway 80 East

MERIDIAN, MS 39301

including therewith a complete, detailed description of the problem, together with a legible copy of the original PROOF OF PURCHASE and a complete return address. Upon Peavev's receipt of these Items:

If the defect is remedial under these limited warranties and the other terms and conditions expressed herein have been complied with, Peavey will provide the necessary warranty service to repair or replace the product and will return it, FREIGHT COLLECT, to you, the purchaser.

Peavey's liability to the purchaser for damages from any cause whatsoever and regardless of the form of action, including negligence, is limited to the actual damages up to the greater of \$500.00 or an amount equal to the purchase price of the product that caused the damage or that is the subject of or is directly related to the cause of action. Such purchase price will be that in effect for the specific product when the cause of action arose. This limitation of liability will not apply to claims for personal injury or damage to real property or tangible personal property allegedly caused by Peavey's negligence. Peavey does not assume liability for personal injury or property damage arising out of or caused by a non-Peavey alteration or attachment, nor does Peavey assume any responsibility for damage to Interconnected non-Peavey equipment that may result from the normal functioning and maintenance of the Peavey equipment.

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SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF INCIDENTALOR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THESE LIMITED WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

THESE LIMITED WARRANTIES ARE THE ONLY EXPRESS WARRANTIES ON THIS PRODUCT, AND NO OTHER STATEMENT, REPRESENTATION, WARRANTY OR AGREEMENT BY ANY PERSON SHALL BE VALID OR BINDING UPON PEAVEY.

In the event of any modification or disclaimer of express or implied warranties, or any limitation of remedies, contained herein conflicts with applicable law, then such modification, disclaimer or limitation, as the case may be, shall be deemed to be modified to the extent necessary to comply with such law.

Your remedies for breach of these warranties are limited to those remedies provided herein and Peavey Electronics Corporation gives this limited warranty only with respect to equipment purchased in the United States of America.

INSTRUCTIONS -WARRANTY REGISTRATION CARD 1. Mail the completed WARRANTY REGISTRATION CARD to:

PEAVEY ELECTRONICS CORPORATION

POST OFFICE BOX 2898 MERIDIAN, MISSISSIPPI 39302-2898

a. Keep the PROOF OF PURCHASE. In the event warranty service is required during the warranty period, you will need this document. There will be no identification card issued by Peavey Electronics Corporation.

- 2. IMPORTANCE OF WARRANTY REGISTRATION CARDS AND NOTIFICATION OF CHANGES OF ADDRESS:
- a. Completion and mailing of WARRANTY REGISTRATION CARDS-Should notification become necessaryforanycondition that may requirecorrection, the REGISTRATION CARD will help ensure that you are contacted and properly notified.
- Notice of address changes If you move from the address shown on the WARRANTY REGISTRATION CARD, you should notify Peavey of the change of address so as to facilitate your receipt of any bulletins or other forms of notification which may become necessary in connection with any condition that may require dissemination of information or correction.

3. You may contact Peavey directly by telephoning (601) 483-5365.

4. Please have the Peavey product name and serial number available when communicating with Peavey Customer Service.



Features and specifications subject to change without notice.

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