

## SPECIFICATIONS

### POWER AMPLIFIER SECTION

#### Rated Power & Load:

120 W RMS into 16, 8, or 4 ohms

#### Power @ Clipping:

(Typically @ 5% THD, 1 kHz, 120 V AC line)

130 W RMS into 16, 8, or 4 ohms

(Bias must be reduced to measure)

#### Frequency Response:

+0, -3 dB, 50 Hz to 20 kHz, @ 100 W RMS into 8 ohms

#### Hum & Noise:

Greater than 75 dB below rated power

#### Power Amp EQ:

Active Presence: +10 dB 2 kHz

Active Resonance: +10 dB @ cabinet resonant frequency

#### Power Consumption: (Domestic)

400 watts 50/60 Hz, 120 V AC

### PREAMP SECTION

The following specs are measured @ 1 kHz with the controls preset as follows:

Low & High EQ @ 0

Bright out

Lead & Rhythm Post @ 10

Presence & Resonance @ 0 dB

Nominal levels with Pre Gains @ 5

Minimum levels with Pre Gains @ 10

#### Preamp High Gain Input:

Impedance: Very high Z, 470K ohms

#### LEAD CHANNEL (with channel select in)

Nominal Input Level: -80 dBV, -1 mV RMS

Minimum Input Level: 92 dBV, .025 mV RMS

#### CLEAN CHANNEL: (with channel select out)

Nominal Input Level: +34 dBV, 20 mV RMS

Minimum Input Level: -50 dBV, 3 mV RMS

Maximum Input Level: 0 dBV, 1.0 V RMS

(Subtract 16 dB with Crunch switch in)

#### Preamp Low Gain Input: (-6 dB pad)

Impedance: High Z 44K ohms

All levels are increased by +6 dB

#### Effects Send:

Load Impedance: 47K ohms or grater

Nominal Output: -10 dBV, 300 mV RMS

#### Effects Return:

Impedance: Very high Z, 470K ohms

Designed Level: -10 dBV, 300 mV RMS

#### Preamp Output:

Load Impedance: 47K ohms or grater

Nominal Output: +10 dBV, 3 V RMS

#### Remote Footswitch:

Special 2 button unit with LED indicators (supplied)

Channel select & Effects loop bypass

#### System Hum & Noise @ Nominal Level:

(Clean channel)

120 Hz to 20 kHz unweighted)

Greater than 74 dB below rated power

#### Equalization:

Custom Low, Mid & High passive type EQ Push

Bright, (Rhythm channel only)

+6 dB @ 2 kHz

Push Crunch (Rhythm channel only) Increases gain



#### FCC/ICES Compliancy Statement

This device complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS Standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Warning: Changes or modifications to the equipment not approved by Peavey Electronics Corp. can void the user's authority to use the equipment.

Note – This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures.

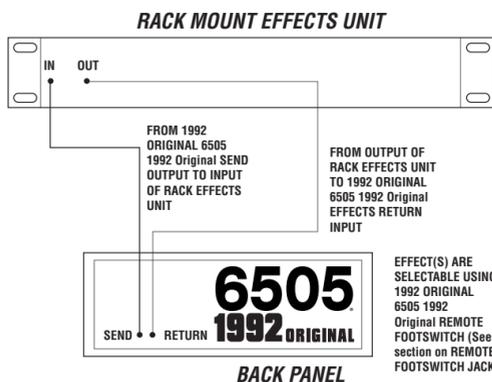
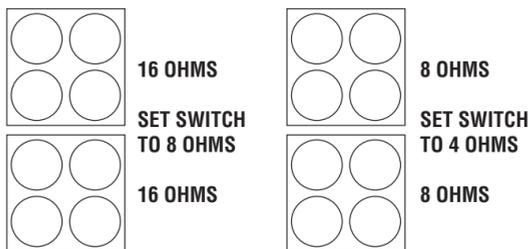
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### Caution

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

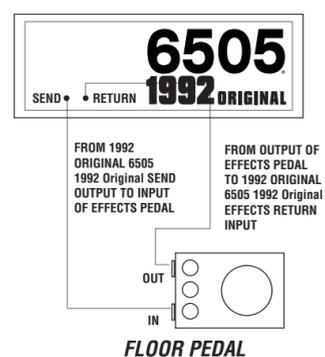
## SPEAKER CONNECTION

When connecting the amplifier to the speaker enclosure, make sure to set the impedance selector switch on the rear of the unit to the impedance that matches your enclosure. When two enclosures of equal impedance are used, set the switch to one half the impedance of one enclosure (e.g. two 16 ohm enclosures: set switch to 8 ohms; two 8 ohm enclosures: set switch to 4 ohms). The 6505 1992 Original is designed to operate into a minimum of 4 ohms.



### EFFECTS PATCHING

USING THE EFFECTS LOOP TO PATCH EXTERNAL, NON GAIN PRODUCING EFFECTS DEVICES (DIGITAL DELAY, REVERS, CHORUS, ETC.)



www.peavey.com

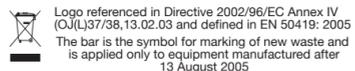
Warranty registration and information for U.S. customers available online at

www.peavey.com/warranty or use the QR tag below



Features and specifications subject to change without notice.

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# OPERATING GUIDE



# 6505

# 1992 ORIGINAL

# 6505 1992 ORIGINAL OPERATING GUIDE

*Congratulations! You have purchased a rock & roll monster. The Peavey 6505® 1992 Original is the result of an extensive research and development to produce the ultimate rock & roll guitar amp. You're ready to experience super rock crunch, harmonic-rich sustain, and screaming metal drive like you've never heard from another amp. Before you begin, please take the time to read this operating guide, familiarizing yourself with the 6505 1992 Original's controls and functions.*

**1** **INPUTS**  
The 6505 1992 Original's input block features HIGH [1] and NORMAL [2] gain inputs. The HIGH gain input has twice the gain of the NORMAL gain input and should be used when maximum overdrive is desired. When both inputs are used simultaneously, the 6505 1992 Original automatically switches to the normal gain mode (6 dB pad). Situations where both inputs are used at once (alternating between two guitars on stage using both inputs, etc.) should be avoided if peak overdrive is expected from the amp. Experimentation with your particular guitar/pickup into each input will determine which input is best for your sound.

**3** **CHANNEL SELECT SWITCH**  
Allows selection of the RHYTHM or LEAD channel. Depressing the switch to the "in" position activates the LEAD channel. The red LED light will illuminate to indicate that the LEAD channel is active. In the "out" position the RHYTHM channel is activated and the green LED illuminates. Channels may be remotely selected using the 6505 1992 Original's footswitch. If remote selection is desired the channel select switch must be set to the "in" position (LEAD channel).

**8** **LEAD PRE & POST GAIN**  
The LEAD CHANNEL PRE GAIN [8] controls the input level and works with the LEAD CHANNEL POST GAIN [13] to determine the overall volume/overdrive of the LEAD channel. Lower settings of the PRE GAIN control produce a relatively clean, undistorted sound while the middle to high settings produce harmonically rich distortion and screaming

overdrive/sustain. Since both PRE and POST GAIN controls work in "combo" a basic rule-of-thumb set-up procedure is to begin with both controls in the lower settings (0 - 2). Using the PRE GAIN control, dial in the amount of overdrive/sustain you want for the LEAD channel. Then, with the POST GAIN control adjust for overall volume.

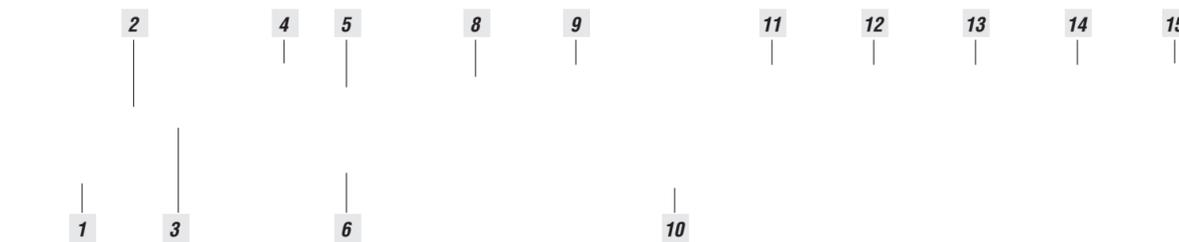
**4** **RHYTHM PRE & POST GAIN**  
The RHYTHM channel PRE [4] and POST GAIN [12] operate in the same manner as the LEAD channel gain controls. For most applications, the RHYTHM channel should be set up with the PRE GAIN at the lower, "cleaner" settings (0 - 4) and the POST GAIN set for overall volume. The RHYTHM channel can be converted to a second "lead" channel by activating the CRUNCH SWITCH [6].

**5** **BRIGHT SWITCH**  
Activates a preset boost in the treble frequencies (6 dB at 2 kHz) and affects only the rhythm channel.

**6** **CRUNCH SELECT SWITCH**  
Boosts the gain of the rhythm channel to create a second "lead" channel. Depress to the "in" position to activate.

**9** **EQUALIZATION**  
The 6505 1992 Original's equalization block features passive LOW, MID, and HIGH EQ.

**14** **RESONANCE I PRESENCE**  
Unique to the 6505 1992 Original, the RESONANCE [14] control can be set to boost the gain of the power amp in the low frequencies



at the resonance/attenuation point of the speaker cabinet. In simple terms, the RESONANCE control works like a low EQ to offset low-end frequency drop-out. The PRESENCE [15] control works in the same manner, boosting the high frequencies. Experimentation using your particular speaker cabinet along with personal taste will determine your setting for these important controls.

**18** **STANDBY SWITCH**  
Allows the 5150 to be placed in a non-operational standby mode. When the standby switch is activated, the tubes remain hot and ready for instantaneous operation, eliminating warm-up time. The STANDBY LED indicator light [16] will illuminate when the amp is in the operational.

**19** **POWER SWITCH**  
Supplies power to the unit. Depressed to the "ON" position, the POWER LED indicator light [17] will illuminate indicating power is being supplied to the unit.

**20** **FUSE**  
A 5 amp fuse is located within the cap of the fuse holder. It must be

replaced with the same type and value in order to avoid damage to the equipment and to prevent voiding the warranty. If the amp repeatedly blows fuses, it should be taken to a qualified service center for repair. WARNING: The fuse should only be replaced when the power cord has been disconnected from its power source.

**21** **LINE CORD (120 V units 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 6505 1992 Original without proper grounding facilities, suitable grounding adaptors should be used. Greatly reduced shock hazard exists when the unit is operated with the proper grounded receptacles.

**22** **GROUND SWITCH**  
Three position, rocker-type switch which, for most applications, should be operated in the center (zero) position. If hum or noise is noticed coming from the speaker enclosure(s) with the ground switch in the center

position, place the ground switch to positive (+or -) to minimize hum. Should a hum/noise problem continue, consult your authorized Peavey Dealer, the Peavey factory, or a qualified service technician. NOTE: The ground switch is not functional on 220/240 volt models.

**23** **EFFECTS SEND I EFFECTS RETURN**

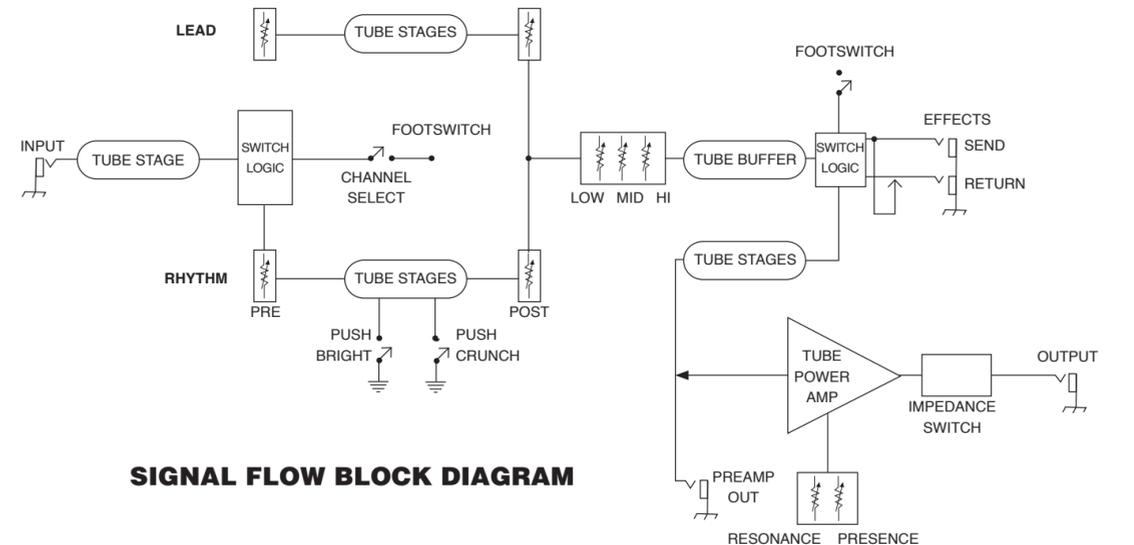
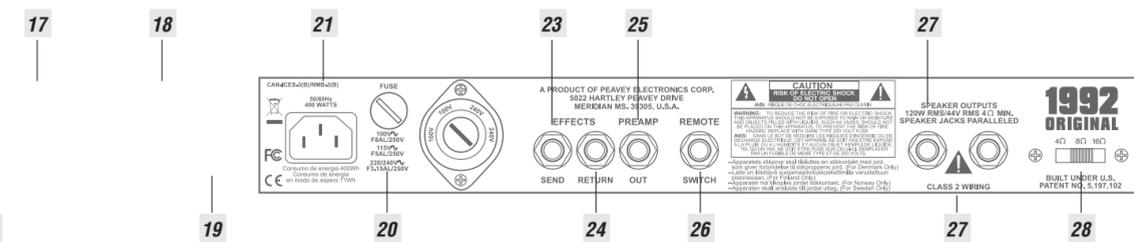
**24** Signals are supplied to outboard effects or signal processing units by patching from the EFFECTS SEND [23] output into the outboard unit(s) and back into the EFFECTS RETURN [24] input using shielded cable with 1/4" phono jacks. Only non gain effects devices (chorus, reverb, delay, etc.) should be used in the effects loop. Remote (on/off) selection of outboard effects devices can be achieved using the 6505 1992 Original's footswitch.

**25** **PREAMP OUT**  
This output can be used to send a preamped signal from the 6505 1992 Original to a mixing console, tape recorder, etc., using shielded cable. Patching from the PREAMP OUT does not affect the normal operation of the amplifier.

**26** **REMOTE FOOTSWITCH JACK**  
Provided for the connection of the supplied remote footswitch. When the footswitch is plugged into the remote footswitch jack, the channel select switch [3] must be pressed to the "in" position for remote selection to operate. Remote selection of the LEAD or RHYTHM channel (left footswitch button) or outboard devices in the effects loop (right footswitch button) is possible with the remote footswitch.

**27** **SPEAKER OUTPUTS**  
Paralleled 1/4" OUTPUTS output jacks for connecting speaker enclosure(s) to the amplifier (minimum: 4 ohms). When using more than one enclosure, be sure to calculate the total impedance and set the impedance switch [28] accordingly. (See section on IMPEDANCE SWITCH.) Important: Use only high quality, Unshielded cable for speaker connections.

**28** **IMPEDANCE SELECTOR SWITCH**  
Use to select the appropriate impedance of the speaker enclosure(s). If two enclosures of equal impedance are used, the switch should be set at one half of that value (e.g., two 16 ohm enclosures: set switch to 8 ohms; two 8 ohm enclosures: set switch to 4 ohms).



**SIGNAL FLOW BLOCK DIAGRAM**