

5150

5150



OPERATING GUIDE

PEAVEY

5150[®]

OPERATING GUIDE

Congratulations! You have purchased a rock & roll monster. The Peavey 5150 is the result of an extensive research and development project with guitar legend Edward Van Halen 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 5150's controls and functions.

1 INPUTS

The 5150'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 5150 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 5150'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].

12

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.

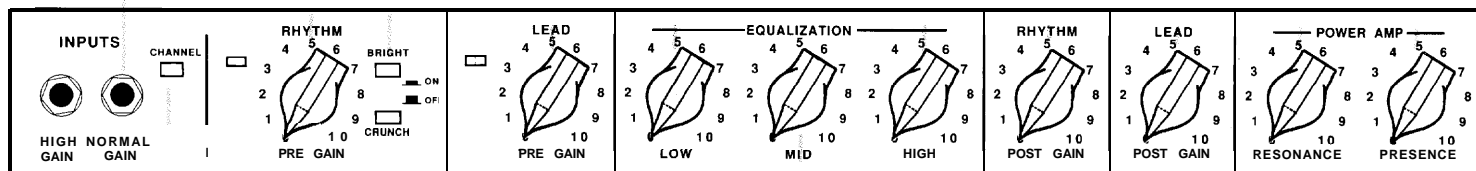
9

EQUALIZATION

The 5150's equalization block features passive **LOW**, **MID**, and **HIGH EQ** that is custom tailored to Edward Van Halen's sound.

10

11

2**4****5****8****9****11****12****13****14****15****FRONT PANEL****1****3****6****10****14****RESONANCE / PRESENCE**

Unique to the 5150, 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.

15**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 mode.

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 fuseholder. 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 5150 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 negative (+ 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 / EFFECTS RETURN**

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 5 150's footswitch.

24**25****PREAMP OUT**

This output can be used to send a preamped signal from the 5150 to a mixing console, tape recorder, etc., using shielded cable. Patching from the **PREAMP OUT** does not affect the normal operation of the amplifier.

17

18

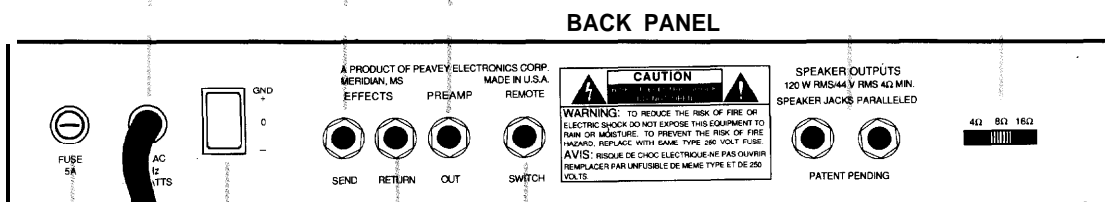
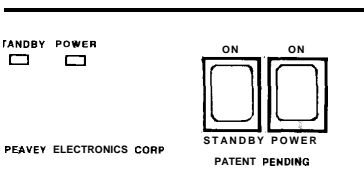
21

23

25

27

28



16

19

20

22

24

26

26

REMOTE **FOOTS WITCH** 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

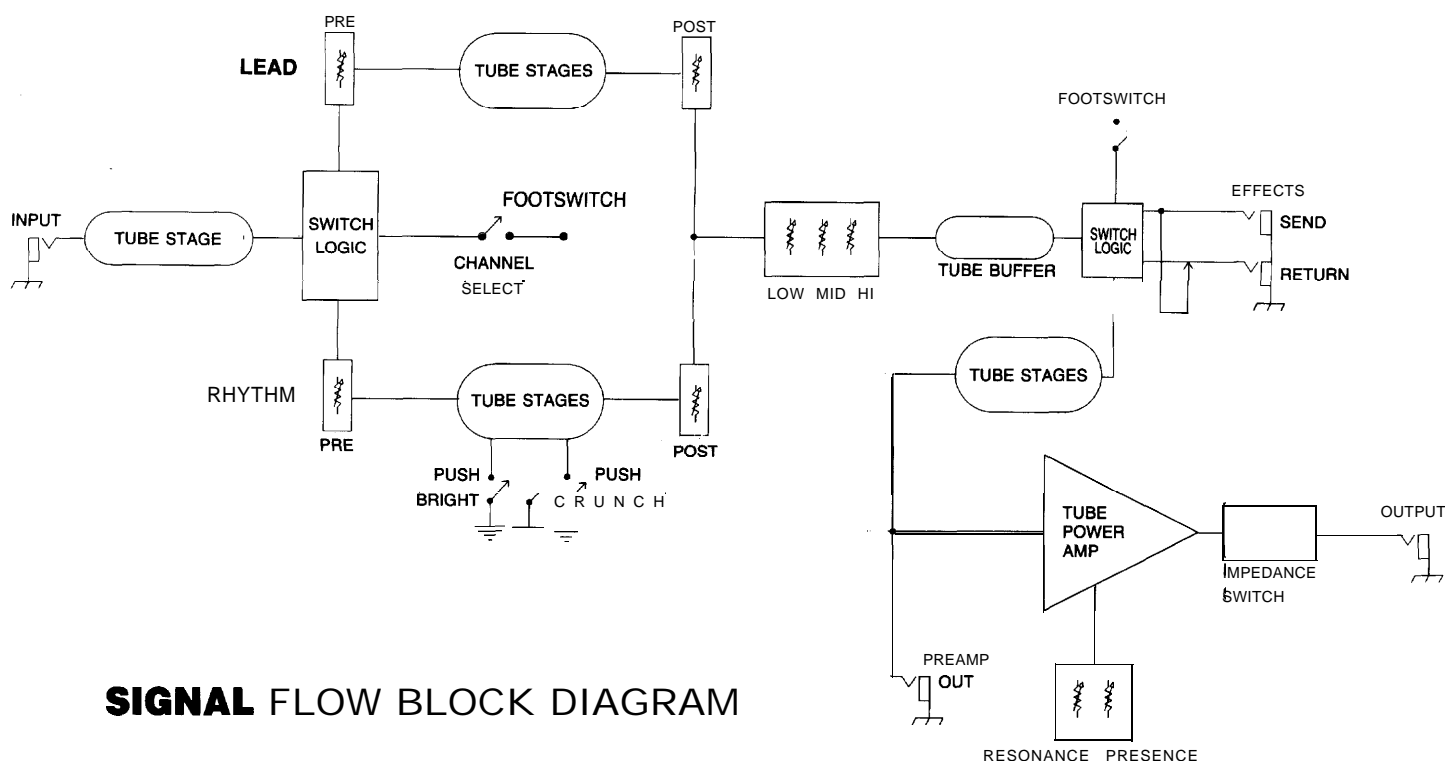


Paralleled 1/4" output jacks for connecting speaker enclosure(s) to the amplifier (minimum: 4 ohms). When using more than one enclosure, be sure to calculate the total impedance and set the impedance switch [28] accordingly. (See section on IMPEDANCE SWITCH.) Important: Use only high quality, UNshielded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

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
(Domestic)

PREAMP SECTION

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

Low & High EQ @ 10

Mid EQ @ 0

Bright out

Lead & Rhythm Posts @ 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 greater

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 greater

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)

(20 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

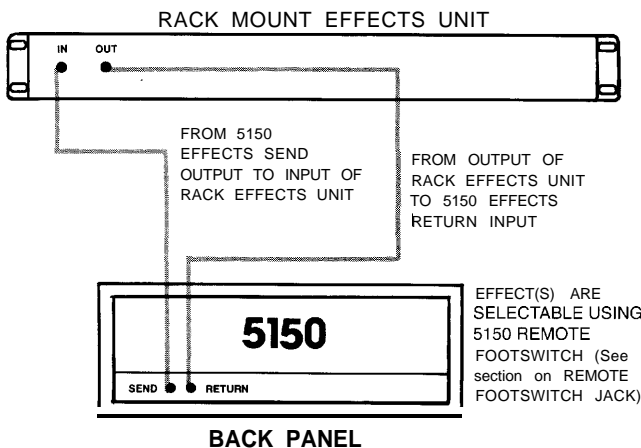
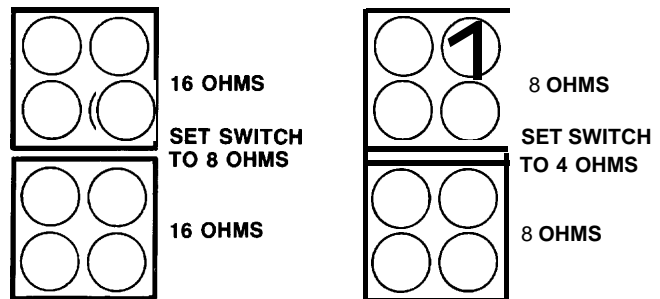
Push Crunch (Rhythm channel only)

Increases gain

Features and specifications subject to change without notice.

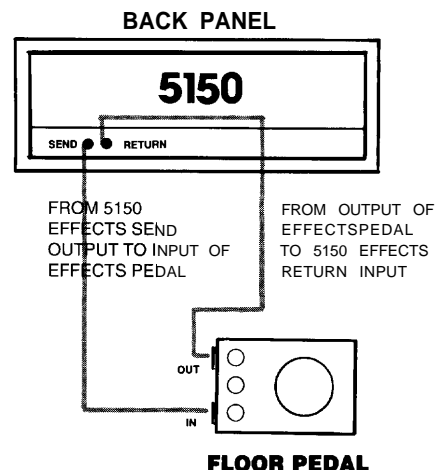
SPEAKER CONNECTION

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 5150 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, REVERB, CHORUS, ETC.)



DANGER
EXPOSURE TO EXTREMELY HIGH NOISE LEVELS MAY CAUSE A PERMANENT HEARING LOSS. INDIVIDUALS VARY CONSIDERABLY IN SUSCEPTIBILITY TO NOISE INDUCED HEARING LOSS BUT NEARLY EVERYONE WILL LOSE SOME HEARING IF EXPOSED TO SUFFICIENTLY INTENSE NOISE FOR A SUFFICIENT TIME.
THE U.S. GOVERNMENT'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAS SPECIFIED THE FOLLOWING PERMISSIBLE NOISE LEVEL EXPOSURES

DURATION PER DAY IN "OURS"	SOUND LEVEL dBA, SLOW RESPONSE
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
3/4	110
1/2 or less	115

ACCORDING TO OSHA, ANY EXPOSURE IN EXCESS OF THE ABOVE PERMISSIBLE LIMITS COULD RESULT IN SOME HEARING LOSS.

EAR PLUGS OR PROTECTORS IN THE EAR CANALS OR OVER THE EARS MUST BE WORN WHEN OPERATING THIS AMPLIFICATION SYSTEM IN ORDER TO PREVENT A PERMANENT HEARING LOSS IF EXPOSURE IS IN EXCESS OF THE LIMITS AS SET FORTH ABOVE TO INSURE AGAINST POTENTIALLY DANGEROUS EXPOSURE TO HIGH SOUND PRESSURE LEVELS. IT IS RECOMMENDED THAT ALL PERSONS EXPOSED TO EQUIPMENT CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS SUCH AS THIS AMPLIFICATION SYSTEM BE PROTECTED BY HEARING PROTECTORS WHILE THE UNIT IS IN OPERATION.

CAUTION

THIS AMPLIFIER HAS BEEN DESIGNED AND CONSTRUCTED TO PROVIDE ADEQUATE POWER RESERVE FOR PLAYING MODERN MUSIC WHICH MAY REQUIRE OCCASIONAL PEAK POWER TO HANDLE OCCASIONAL PEAK POWER. ADEQUATE POWER "HEADROOM" HAS BEEN DESIGNED INTO THIS SYSTEM EXTENDED OPERATION AT ABSOLUTE MAXIMUM POWER LEVELS IS NOT RECOMMENDED SINCE THIS COULD DAMAGE THE ASSOCIATED LOUDSPEAKER SYSTEM. PLEASE BE AWARE THAT MAXIMUM POWER CAN BE OBTAINED WITH VERY LOW SETTINGS OF THE GAIN CONTROLS IF THE INPUT SIGNAL IS VERY STRONG.

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be retained for future reference.
3. Obey all cautions in the operating instructions and on the back of the unit.
4. All operating instructions should be followed.
5. This product should not be used near water, i.e. a bathtub, sink, swimming pool, wet basement, etc.
6. This product should be located so that its position does not interfere with its proper ventilation. It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
7. This product should not be placed near a source of heat such as a stove, radiator or another heat producing amplifier.

8. Connect only to a power supply of the type marked on the label affixed to the power supply cord.
9. Never break off the ground pin on the power supply cord. For more information on grounding write for our free booklet "Shock Hazard and Grounding."
10. Power supply cords should always be handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for cuts or signs of stress, especially at the plug and the point where the cord exits the unit.
11. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
12. If this product is to be mounted in an equipment rack, rear support should be provided.

13. Metal parts can be cleaned with a damp rag. The vinyl covering used on some units can be cleaned with a damp rag, or an ammonia based household cleaner if necessary.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation holes or any other openings.
15. This unit should be checked by a qualified service technician if:
 - A. The power supply cord or plug has been damaged.
 - B. Anything has fallen or been spilled into the unit.
 - C. The unit does not operate correctly.
 - D. The unit has been dropped or the enclosure damaged.
16. The user should not attempt to service this equipment. All service work should be done by a qualified service technician.

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 sont valables qu'aux Etats-Unis et au Canada. Dans tous les autres pays, les clauses de garantie et de maintenance sont fixées par le distributeur national et assurees par lui selon la legislation en vigueur.
Diese Garantie laetutur in den USA und Kanada gueltig. Alle Export-Produkte sind der Garantie und dem Service des Importeurs des jeweiligen Landes unterworfen.
Esta garantia es valida solamente cuando el producto es comprado en E.U. continental o en Canada. Todos los productos que seen comprados en el extranjero, estan sujetos alas 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 coven, 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 W-DAY LIMITED WARRANTY ON TUBES AND METERS

If this product contains tubes or meters, Peavey warrants the tubes 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 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 OF 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

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 Peavey's receipt of these items.

If the defect is remedied 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 \$5000.00 or an amount equal to the purchase price of the product that caused the damage or that is the subject of or 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.

UNDER NO CIRCUMSTANCES WILL PEAVEY BE LIABLE FOR ANY LOST PROFITS, LOST SAVINGS, ANY INCIDENTAL DAMAGES OR ANY CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

THESE LIMITED WARRANTIES ARE IN LIEU OF ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE, PROVIDED HOWEVER THAT IF THE OTHER TERMS AND CONDITIONS NECESSARY TO THE EXISTENCE OF THE EXPRESS, LIMITED WARRANTIES, AS HEREIN ABOVE STATED, HAVE BEEN COMPLIED WITH, IMPLIED WARRANTIES ARE NOT DISCLAIMED DURING THE APPLICABLE ONE-YEAR OR NINETY-DAY PERIOD FROM DATE OF PURCHASE OF THIS PRODUCT.

SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR 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 2698
MERIDIAN, MISSISSIPPI 39302-2698

- 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 necessary for any condition that may require correction the REGISTRATION CARD will help ensure that you are contacted and properly notified.
b. 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.

Peavey Electronics Corporation 711 A Street / Meridian, MS 39301 / U.S.A. / (601) 483-5365 / Fax 486-1278

01994

#80302 108

Printed in U.S.A. 10/95