

OWNERS MANUAL

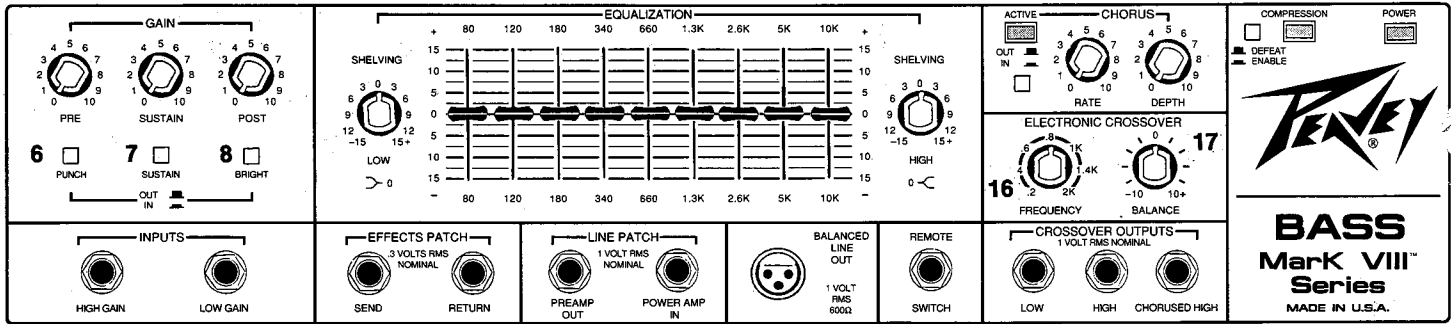


Mark VIII™ Bass

OPERATING GUIDE



WARNING: TO PREVENT ELECTRICAL SHOCK OR FIRE HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. BEFORE USING THIS APPLIANCE, READ THE OPERATING GUIDE FOR FURTHER WARNINGS.



HIGH GAIN INPUT (1)

Used for most electric basses. 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 channel.

SUSTAIN (4)

Provides sustain function with compression. Clockwise rotation of this control increases the amount of sustain/compression. Counter-clockwise rotation decreases amount of sustain/compression.

NOTE: Instrument level should be balanced with pre gain and sustain to obtain desired level between “sustained signal” and “normal signal”. Sustain function may be selected with supplied remote footswitch or with “push” sustain switch. Footswitch “overrides” sustain “push” switch.

POST GAIN (5)

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

PUNCH SWITCH (6)

Provides a preset boost (+8 dB) to midbass frequencies. To activate, depress the switch to its “in” position.

SUSTAIN SWITCH (7)

The “in” position of this switch activates the “sustain” function. The “out” position defeats “sustain” function.

NOTE: The supplied remote footswitch “overrides” the “push” switch regardless of the switch position.

BRIGHT SWITCH (8)

Provides a preset boost (+/- 8 dB) to treble frequencies. To activate, depress the switch to its “in” position.

LOW EQ (9)

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.

GRAPHIC EQUALIZATION (10)

Provides +/- 15 dB equalization at each center frequency.

HIGH EQ (11)

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

CHORUS ACTIVE LED (12)

Illumination indicates chorus effect has been selected.

CHORUS IN/OUT SWITCH (13)

Is used to activate/defeat the chorus circuit. To activate the circuit, depress the switch to its “in” position.

NOTE: Chorus footswitch “overrides” push switch.

RATE CONTROL (14)

Controls the sweep rate (frequency) of the chorus effect.

DEPTH CONTROL (15)

Controls the depth (intensity) of the chorus effect.

CROSSOVER FREQUENCY CONTROL (16)

Adjusts the frequency of the crossover dividing network.

BALANCE (17)

Controls the relative levels of output signals from the crossover. Adjusting this control will only affect signals at the crossover high and low outputs on the front panel. All other output signals are unaffected by this control.

EFFECTS SEND (18)

Output for supplying signals to external low-level effects or signal processing equipment.

EFFECTS RETURN (19)

Input for returning signals from external low-level effects or signal processing equipment.

LINE PATCH — 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.

BALANCED LINE OUT (21)

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.

REMOTE SWITCH JACK (22)

Provided for the connection of the supplied footswitch. Footswitch is used to activate/defeat sustain and chorus effect.

LOW RANGE OUTPUT (23)

Provides a post-crossover low range output signal. Signal level is adjusted by the post gain control and the crossover balance control.

HIGH RANGE OUTPUT (24)

Provides a post-crossover high range output signal. Signal level is adjusted by the post gain control and the crossover balance control.

CHORUSED HIGH OUT (25)

Provides a post-crossover high range output signal. When the chorus effect is enabled, the signal at this point is chorused. The signal level is adjusted by the post gain control and the crossover balance control.

DDT™ DEFEAT/ENABLE SWITCH (26)

DDT™ compression is defeated with the switch in the "out" position. DDT should be enabled at all times to protect speakers.

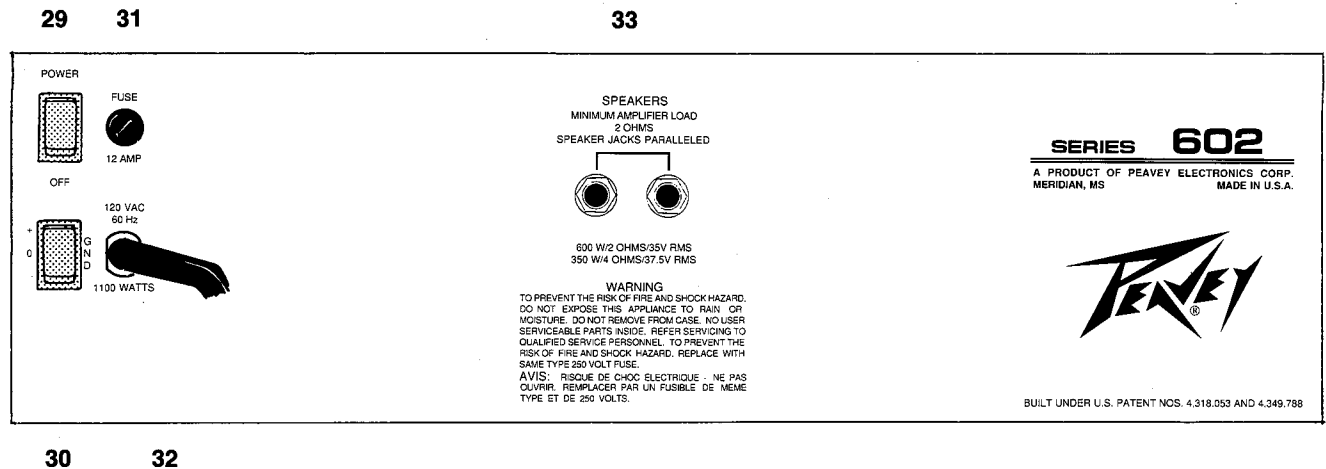
DDT™ COMPRESSION (27)

The amplifier is equipped with the patented DDT™ compression circuit (U.S. Patent 4,318,053). The compression circuit eliminates audible power amp clipping, reduces distortion, and protects the loudspeaker.

In use, the Compressor LED may occasionally illuminate, indicating that the compressor is engaging to prevent distortion. If the LED is continuously illuminated, Gain control or Low EQ control settings should be reduced to prevent possible loudspeaker damage.

POWER LED (28)

Illuminates when AC power is being supplied to the amp.



POWER SWITCH (29)

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

GROUND SWITCH (30)

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 Dealer, the Peavey Factory, or a qualified service technician. THE GROUND SWITCH IS NOT FUNCTIONAL ON 220/240 VOLT MODELS.

FUSE (31)

The fuse is located within the cap of the fuseholder. If the fuse should fail, 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.

LINE CORD (120V PRODUCTS ONLY) (32)

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 grounding receptacles.

SPEAKER JACKS (33)

Provided for connection of external speaker cabinet. Minimum total impedance is 2 ohms.

CORD RETAINERS (34)

Allow storage of mains cable for travel.

WARNING: To prevent damage to mixer, connector and/or external power supply, do not connect or disconnect cable from mixer to external power supply while power supply is turned on.

SPECIFICATIONS

POWER AMP SECTION

RATED POWER & LOAD

350 Watts into 4 ohms
600 Watts into 2 ohms
with DDT™ compression

POWER @ CLIPPING (Typically)

(1 kHz, 120V AC line)
395 Watts RMS into 4 ohms @ 1% THD
506 Watts RMS into 4 ohms @ 5% THD

FREQUENCY RESPONSE

+/- 0 dB, 20 Hz to 20 kHz
@ 350 Watts RMS into 4 ohms

TOTAL HARMONIC DISTORTION

Less than 0.1%, 100 mW to
350 Watts RMS,
20 Hz to 10 kHz, 4 ohms, typically below
0.05%

DDT™ DYNAMIC RANGE

Greater than 23 dB

DDT™ MAXIMUM THD

Below 0.5% THD for 6 dB overload
Below 1% THD for 16 dB overload

HUM & NOISE

Greater than 83 dB below rated power

POWER CONSUMPTION (Domestic)

1100 Watts @ 120V AC, 50/60 Hz

PREAMP SECTION

The following specs are measured @
1 kHz with the Low, High, Graphic EQ @
0 dB; Push Bright & Push Punch Out (Off);
Post Gain @ 10; Push Chorus Off; and
Sustain Off. Nominal Levels are with Pre
Gain @ 5; Minimum Levels are with Pre
Gain @ 10

PREAMP HIGH GAIN INPUT

Impedance: High Z, 220K ohms
Nominal Input Level: -20 dBV,
100 mV RMS
Minimum Input Level: -40 dBV,
10 mV RMS
Maximum Input Level: +10 dBV, 3V RMS

PREAMP LOW GAIN INPUT

Impedance: High Z, 44K ohms
Nominal Input Level: -14 dBV,
200 mV RMS
Minimum Input Level: -34 dBV,
20 mV RMS
Maximum Input Level: +16 dBV, 6V RMS

PREAMP OUTPUT

Load Impedance: 1K ohms or greater
Nominal Output Level: 0 dBV, 1.0V RMS
(at the DDT™ limit of 350W RMS output)
Maximum Output Level: +18 dBV,
8V RMS

POWER AMP INPUT

Impedance: High Z, 22K ohms
Designed Input Level: 0 dBV, 1V RMS
(Switching jack providing preamp
output to power amp input connection
when not used)

SYSTEM HUM & NOISE @ NOMINAL INPUT LEVEL

(20 Hz to 20 kHz unweighted)
Greater than 77 dB below rated power

EQUALIZATION

Low & High: +/- 15 dB @ 80 Hz & 8 kHz,
shelving
9 Band Graphic: +/- 15 dB @ 80, 120,
180, 340, 660, 1.3K, 2.6K, 5K, 10K;
peak/notch
Push Bright: +8 dB @ 2 kHz
Push Punch: Special EQ

VARIABLE CROSSOVER

Controls: Frequency, Balance
Frequency Range: 200 Hz to 2 kHz
Slope: 12 dB/octave

CROSSOVER HIGH/CHORUS OUTPUT (HIGH PASS SIGNAL)

Load Impedance: 1K ohms or greater
Nominal Output Level: 0 dB,
1.0 volt RMS
(At the DDT™ limit of 350 Watts RMS
output)
Maximum Output Level: +18 dBV,
8 Volts RMS

CROSSOVER HIGH (HIGH PASS SIGNAL)

Load Impedance: 1K ohms or greater
Nominal Output Level: 0 dB, 1.0
volt RMS
(At the DDT™ limit of 350 Watts RMS
output)
Maximum Output Level: +18 dBV,
8 volts RMS

CROSSOVER LOW OUTPUT (LOW PASS SIGNAL)

Load Impedance: 1K ohms or greater
Nominal Output Level: 0 dB, 1.0
volt RMS
(At the DDT™ limit of 350 Watts RMS
output)
Maximum Output Level: +18 dBV,
8 volts RMS

CHORUS

Controls: Depth and rate with push
switch
Source: Crossover high pass output
signal
Re-mix: With full range output & high
pass output

SUSTAIN

Controls: Depth and rate with push
switch

REMOTE SWITCH

External two button controls chorus and
sustain

EFFECTS PATCH SEND

Function: Low level Pre EQ effects send
Load Impedance: 100K ohms or greater
Nominal Output: -10 dBV, 0.3V RMS

EFFECTS PATCH RETURN

Function: Low level Pre EQ effects
return
Impedance: High Z, 47K ohms
Designed Input Level: -10 dBV,
0.3V RMS
(Switching jack providing send to return
connection when not used)

LINE PATCH SEND

Function: High level post EQ signal send
Load Impedance: 1K ohms or greater
Nominal Output: 0 dBV, 1V RMS

LINE PATCH RETURN

Function: High level post EQ signal
return
Impedance: High Z, 22K ohms
Designed Input Level: 0 dBV, 1V RMS
(Switching jack providing send to return
connection when not used)

BALANCED LINE OUTPUT (FREQUENCY COMPENSATED)

Function: Low level mixing console feed
Load Impedance: 600 ohms
Nominal Output: -10 dBV, 0.32V RMS
Maximum Output: +5 dBV, 1.7V RMS

Tone Settings

ROCK

ADJUST TO PERSONAL TASTE

ADJUST TO PERSONAL TASTE

BIAMPED OPERATION ADJUST TO TASTE

**BIAMPED OPERATION
ADJUST FREQUENCY TO
MATCH ENCLOSURE RESPONSE
NORMAL CROSSOVER FREQ.
200 - 300 HZ**

**BIAMPED OPERATION
ADJUST TO TASTE**

FUNK

ADJUST TO PERSONAL TASTE

ADJUST TO PERSONAL TASTE

BIAMPED OPERATION ADJUST TO TASTE

**BIAMPED OPERATION
ADJUST FREQUENCY TO
MATCH ENCLOSURE RESPONSE
NORMAL CROSSOVER FREQ.
200 - 300 Hz**

**BIAMPED OPERATION
ADJUST TO TASTE**

COUNTRY

ADJUST TO PERSONAL TASTE

ADJUST TO PERSONAL TASTE

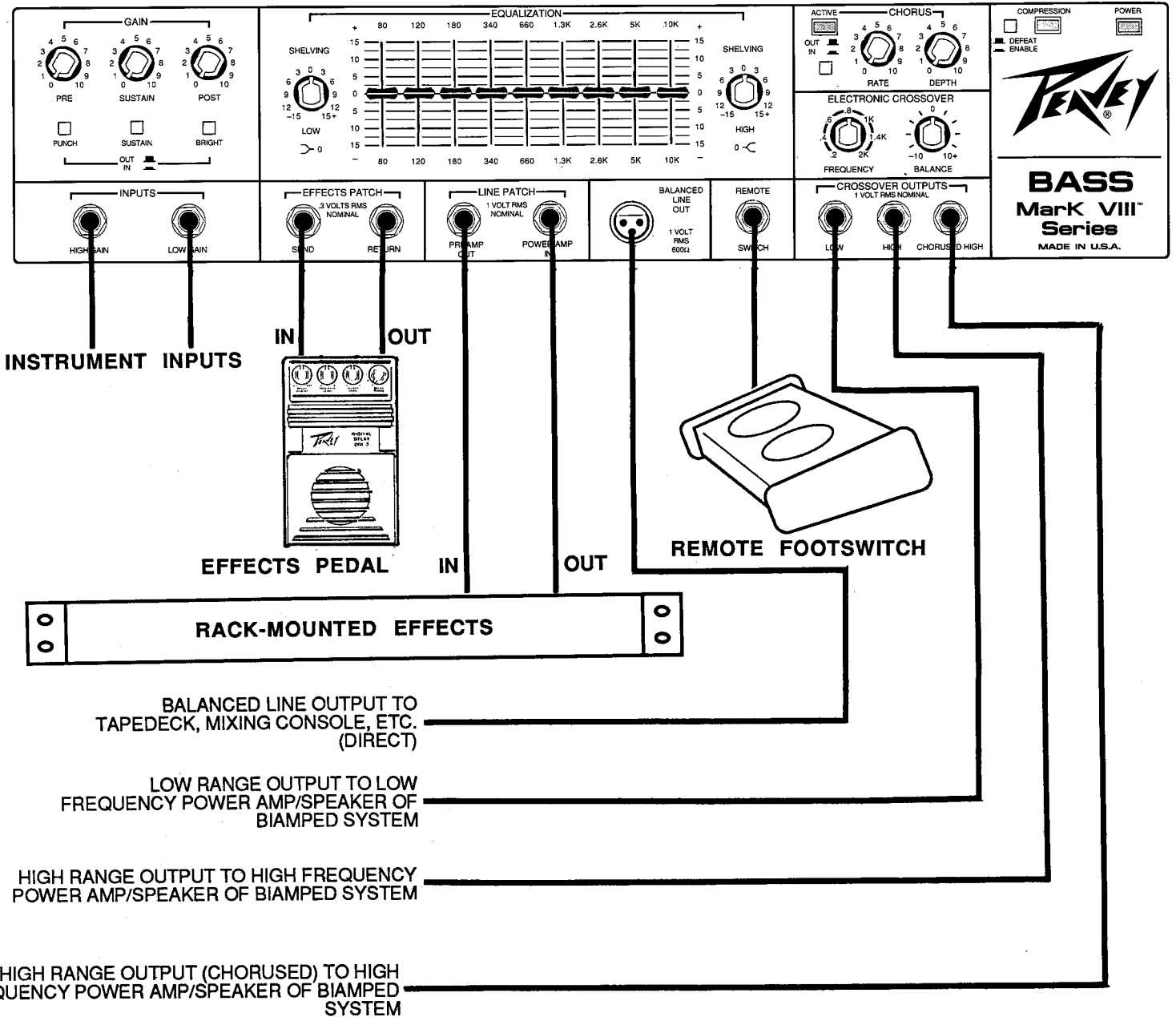
BIAMPED OPERATION ADJUST TO TASTE

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**BIAMPED OPERATION
ADJUST TO TASTE**

PATCH DIAGRAM

NOTE: If CHORUS EFFECT is desired for BIAMPED SYSTEM this output should be used for high pass.



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 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 assurée par lui selon la législation en vigueur.
Diese Garantie ist nur in den USA und Kanada gültig. Alle Export-Produkte sind der Garantie und dem Service des Importeurs des jeweiligen Landes unterworfen.
Esta garantía es válida solamente cuando el producto es comprado en E.U. continentales o en Canada. Todos los productos que sean comprados en el extranjero, están sujetos a las garantías y servicio que cada distribuidor autorizado determine y ofrezca en los diferentes países.

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 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:

- 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 Peavey'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.

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 HEREINABOVE 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 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 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.