

MAX[®] Series

158/110/112/115 Bass Amplifier Owner's Manual



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Intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



Intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION: Risk of electrical shock — DO NOT OPEN!

CAUTION: To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To prevent electrical shock or fire hazard, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus. Before using this apparatus, read the operating guide for further warnings.



Este símbolo tiene el propósito, de alertar al usuario de la presencia de “(voltaje) peligroso” sin aislamiento dentro de la caja del producto y que puede tener una magnitud suficiente como para constituir riesgo de descarga eléctrica.



Este símbolo tiene el propósito de alertar al usuario de la presencia de instrucciones importantes sobre la operación y mantenimiento en la información que viene con el producto.

PRECAUCION: Riesgo de descarga eléctrica ¡NO ABRIR!

PRECAUCION: Para disminuir el riesgo de descarga eléctrica, no abra la cubierta. No hay piezas útiles dentro. Deje todo mantenimiento en manos del personal técnico cualificado.

ADVERTENCIA: Para prevenir choque eléctrico o riesgo de incendios, este aparato no se debe exponer a la lluvia o a la humedad. Los objetos llenos de líquidos, como los floreros, no se deben colocar encima de este aparato. Antes de usar este aparato, lea la guía de funcionamiento para otras advertencias.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur la présence d'une tension dangereuse pouvant être d'amplitude suffisante pour constituer un risque de choc électrique.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur qu'il ou qu'elle trouvera d'importantes instructions concernant l'utilisation et l'entretien de l'appareil dans le paragraphe signalé.

ATTENTION: Risques de choc électrique — NE PAS OUVRIR!

ATTENTION: Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve à l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confiez l'entretien et la réparation de l'appareil à un réparateur Peavey agréé.

AVIS: Dans le but de réduire les risques d'incendie ou de décharge électrique, cet appareil ne doit pas être exposé à la pluie ou à l'humidité et aucun objet rempli de liquide, tel qu'un vase, ne doit être posé sur celui-ci. Avant d'utiliser de cet appareil, lisez attentivement le guide fonctionnant pour avertissements supplémentaires.



Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.



Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

VORSICHT: Risiko — Elektrischer Schlag! Nicht öffnen!

VORSICHT: Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden könnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.

WARNUNG: Um elektrischen Schlag oder Brandgefahr zu verhindern, sollte dieser Apparat nicht Regen oder Feuchtigkeit ausgesetzt werden und Gegenstände mit Flüssigkeiten gefüllt, wie Vasen, nicht auf diesen Apparat gesetzt werden. Bevor dieser Apparat verwendet wird, lesen Sie bitte den Funktionsführer für weitere Warnungen.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electrical products, basic cautions should always be followed, including the following:



1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding plug. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
11. Only use attachments/accessories provided by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Never break off the ground pin. Write for our free booklet "Shock Hazard and Grounding." Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
16. If this product is to be mounted in an equipment rack, rear support should be provided.
17. Note for UK only: If the colors of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
 - a) The wire that is colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow.
 - b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.
 - c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids, such as vases, upon the apparatus.
19. 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 Hours	Sound Level dBA, Slow Response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 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 to 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 ensure 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 this unit is in operation.

SAVE THESE INSTRUCTIONS!

MAX[®] 158/110/112/115

Bass Amplifiers

Thank you for selecting a Peavey MAX Series bass guitar amplifier. The MAX Series offers great sound in a small, convenient and easy-to-use package. Its design makes it perfect as a practice amplifier or for small jam sessions. The built-in Tape/CD jack allows you to jam along with your favorite tunes while the headphone input offers the convenience of practicing privately anytime, day or night.



Before you begin playing through your amplifier, it is very important to ensure that the product has the proper AC line voltage supplied. You can find the proper voltage for your amp printed next to the IEC line (power) cord on the rear panel of the unit. Each product feature is numbered. Refer to the front panel diagram in this manual to locate the particular features next to their number.

Please read this guide carefully to ensure your personal safety as well as the safety of your amplifier.

FEATURES:

- Vintage control with patented Peavey TransTube[®] circuitry for vintage tube bass amp sound
- Selectable EQ presets
- Gain control
- Multi-band equalization
- Headphone connection
- Tape/CD input connection
- Custom-voiced speaker
- DDT[™] speaker protection circuit

Front Panel



(1) Input Jack

Plug your bass into this 1/4" jack. Connect your bass prior to turning on the power switch.

(2) Gain

This control sets the MAX® preamp input gain and works in conjunction with the selected Voicing preset (see 3, Voicing). Rotating the control clockwise increases gain, but your final setting will depend on the output of your bass (passive or active) as well as your playing style.

(3) Voicing

The Voicing switch offers several EQ and TransTube® gain variations which essentially offer the user several amplifiers in one, each with distinct tonal characteristics.

Modern - Based on "West Coast" EQ voicing with no tube simulation

Vintage - Based on Peavey TransTube front-end with a vintage tube bass voicing

MAX - Based on classic Peavey EQ voicing with no tube simulation (on MAX 115 only)

(4) Equalization

The EQ section allows for tonal adjustment of the amp model selected in the Voicing section (3) and causes the EQ to respond in a manner similar to the amp being modeled. The EQ controls on the MAX 158, 110 and 112 are of a standard passive type (controls interact depending on setting), while the MAX 115 has an active EQ with independent cut and boost.

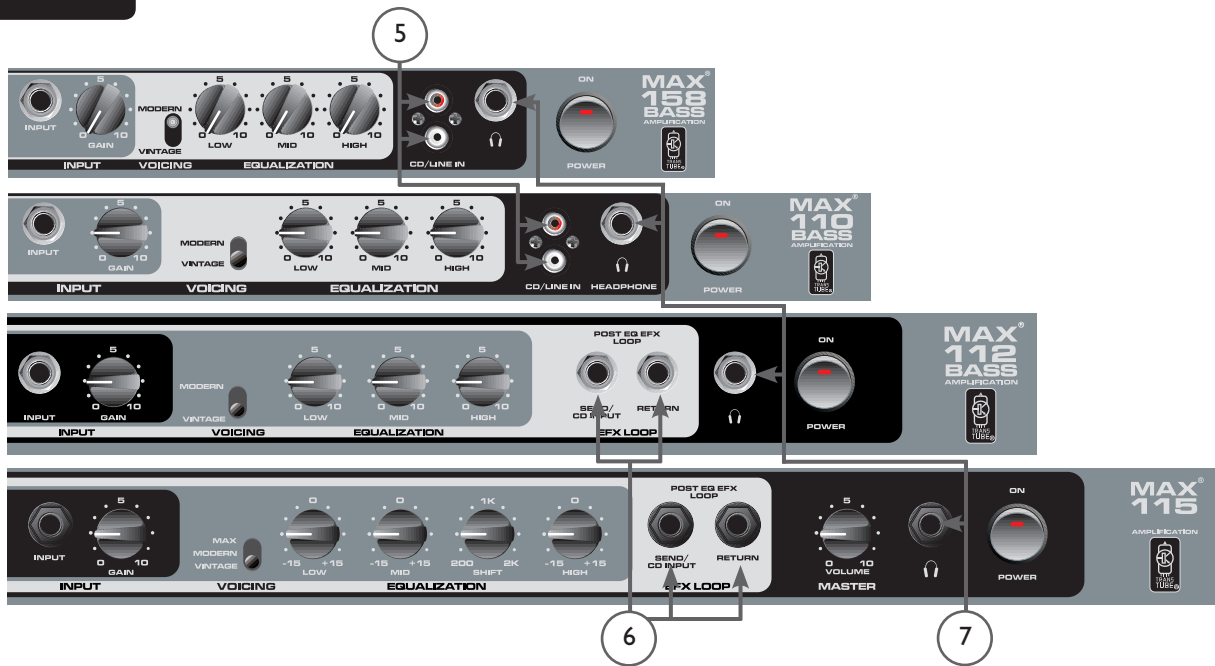
Low - Rotate the control clockwise to increase the low frequencies

Mid - Rotate the control clockwise to increase the mid frequencies

Shift (MAX 115 only) - This control provides a semi-parametric EQ that sets the frequency at which the mid control cuts or boosts. Rotating the control clockwise from left to right increases this frequency; it can be set anywhere between 200 Hz and 2 kHz.

High - Rotate the control clockwise to increase the high frequencies

Front Panel



(5) RCA CD/Line In jacks (MAX® 158 and 110 only)

These RCA input jacks allow you to connect a stereo, tape or CD player to your MAX Series bass amp and play along.

(6) Post-EQ EFX Loop (MAX 112 and 115 only)

This section allows you to add an effect or connect a CD player post-EQ or after settings have been applied to the EQ section (see 4).

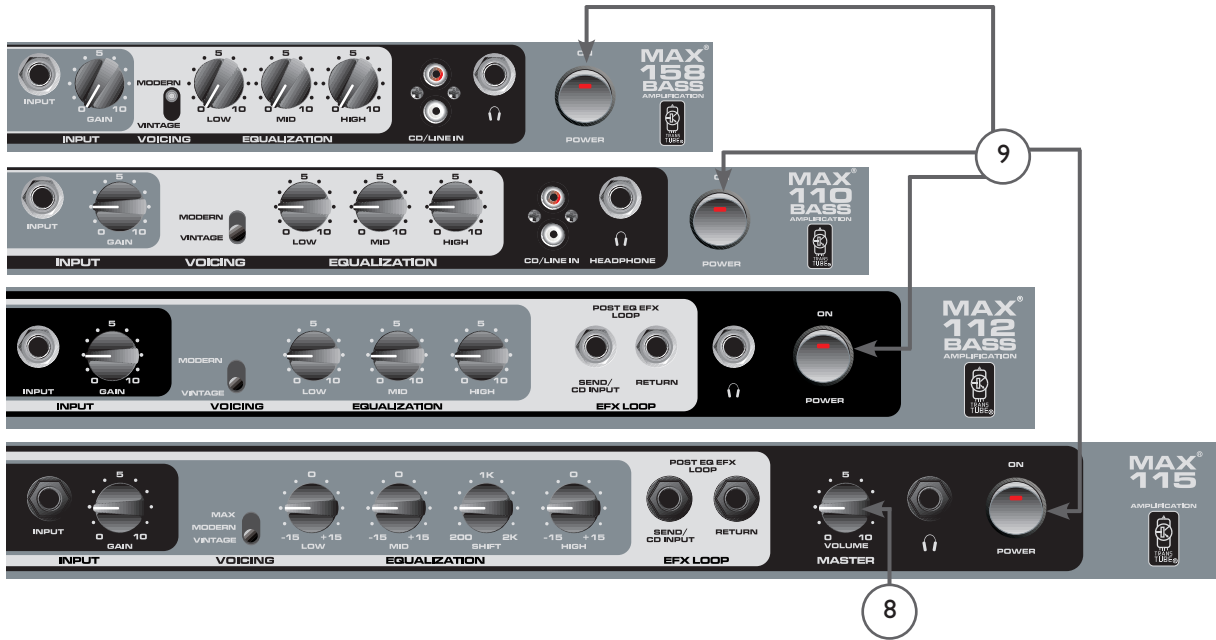
Send/CD Input This standard 1/4" input jack allows you to connect a tape or CD player to your MAX Series bass amp and play along. The jack also allows you to connect the input of an effects unit to your MAX Series amp (see Return below).

Return Used in conjunction with the Send/CD input, this jack allows you to complete the loop of the effects patched in by inserting the output from the effects unit into the return jack.

(7) Headphone Input

This standard 1/4" input jack allows you to connect standard stereo headphones to the amplifier. Turn the Gain control all the way down before using headphones. Slowly turn up the Gain and find a comfortable listening level. When headphones are connected to MAX Series amplifiers, the speaker is automatically turned off.

Front Panel



(8) Master Volume (MAX 115 only)

This control sets the overall volume for a preset. As with the Gain knob, rotating this control clockwise increases gain or overall output.

(9) Power Switch

This two-way rocker switch applies power to the unit when placed in the ON position. A red LED on the Power switch illuminates when power is supplied.

WARNING: The power switch breaks only one side of the mains. Hazardous energy can be present inside the enclosure when the switch is in the OFF position.



Rear Panel



(1) IEC Mains Connector

This is a standard IEC power connector. An AC mains cord having the appropriate AC plug and ratings for the intended operating voltage is included in the carton.

Never break off the ground pin on any equipment. It is provided for your safety. If the outlet used does not have a ground pin, a suitable grounding adapter should be used and the third wire should be grounded properly. To prevent the risk of shock or fire hazard, always make sure that the equalizer and all associated equipment is properly grounded.



MAX® Series Specifications

MAX 158

Rated Power:

15 watts RMS into 4 ohms,
nominal @ 1 kHz, 120 VAC line

Power Consumption:

(Domestic)

50 watts, 60 Hz, 120 VAC

(Export)

50 watts, 50/60 Hz, 230 VAC

The following specs are measured at 1 kHz with all controls preset at 5; "Modern" voicing:

Input Sensitivity:

Nominal Input Level (Modern):

-12.4 dBV, 240 mV RMS

Maximum Input Level:

6.0 dBV, 2.0 V RMS

Tape/CD Input:

Impedance: High-Z, 1Meg ohms

Nominal Input Level:

5.60 dBV, 1.90 V RMS

Headphone Output:

Nominal Output Level:

75 mW into 8 ohms

(Disconnects internal speaker when used)

System Hum & Noise @

Nominal Input Level:

(Clean channel, 20 Hz to 20 kHz unweighted)

Greater than 78 dB below rated power

Dimensions (H x W x D):

14.375" x 12.563" x 8.875"
(366 mm x 320 mm x 226 mm)

Weight:

17.5 lbs. (7.94 kg)

MAX 110

Rated Power:

20 watts RMS into 4 ohms,
nominal @ 1 kHz, 120 VAC line

Power Consumption:

(Domestic)

50 watts, 60 Hz, 120 VAC

(Export)

50 watts, 50/60 Hz, 230 VAC

The following specs are measured at 1 kHz with all controls preset at 5; "Modern" voicing:

Input Sensitivity:

Nominal Input Level (Modern):

-15.4 dBV, 170 mV RMS

Maximum Input Level:

7.04 dBV, 2.25 V RMS

Tape/CD Input:

Impedance: High-Z, 1.1Meg ohms

Nominal Input Level:

8.79 dBV, 2.75 V RMS

Headphone Output:

Nominal Output Level:

100 mW into 8 ohms

(Disconnects internal speaker when used)

System Hum & Noise @

Nominal Input Level:

(Clean channel, 20 Hz to 20 kHz unweighted)

Greater than 73 dB below rated power

Dimensions (H x W x D):

17.653" x 15.375" x 11.188"
(449 mm x 391 mm x 285 mm)

Weight:

25.4 lbs. (11.5 kg)

MAX® Series Specifications

MAX 112

Rated Power:

40 watts RMS into 8 ohms,
nominal @ 1 kHz, 120 VAC line

Power Consumption:

(Domestic)

75 watts, 60 Hz, 120 VAC

(Export)

75 watts, 50/60 Hz, 230 VAC

The following specs are measured at 1 kHz with all controls preset at 5; "Modern" voicing:

Input Sensitivity:

Nominal Input Level (Modern):

-15.4 dBV, 170 mV RMS

Maximum Input Level:

7.04 dBV, 2.25 V RMS

Tape/CD Input:

(Stereo cable must be used)

Impedance: High-Z, 33k ohms

Nominal Input Level:

8.46 dBV, 2.65 V RMS

Effects Loop:

Nominal send and return level:

7.23 dBV, 2.3 V RMS

Headphone Output:

Nominal Output Level:

235 mW into 8 ohms

(Disconnects internal speaker when used)

System Hum & Noise @

Nominal Input Level:

(Clean channel, 20 Hz to 20 kHz unweighted)

Greater than 72 dB below rated power

Dimensions (H x W x D):

21.25" x 18.188" x 12.125"

(540 mm x 462 mm x 308 mm)

Weight:

37.0 lbs. (16.8 kg)

MAX 115

Rated Power:

60 watts RMS into 4 ohms,
nominal @ 1 kHz, 120 VAC line

Power Consumption:

(Domestic)

75 watts, 60 Hz, 120 VAC

(Export)

75 watts, 50/60 Hz, 230 VAC

The following specs are measured at 1 kHz with all controls preset at 5; "Modern" voicing, Master Volume preset at 10:

Input Sensitivity:

Nominal Input Level (Modern):

-15.5 dBV, 168 mV RMS

Maximum Input Level:

7.04 dBV, 2.25 V RMS

Tape/CD Input:

(Stereo cable must be used)

Impedance: High-Z, 100 k ohms

Nominal Input Level:

-8.0 dBV, 398 mV RMS

Effects Loop:

Nominal send and return level:

-10 dBV, 325 mV RMS

Headphone Output:

Nominal Output Level:

320 mW into 8 ohms

(Disconnects internal speaker when used)

System Hum & Noise @

Nominal Input Level:

(Clean channel, 20 Hz to 20 kHz unweighted)

Greater than 90 dB below rated power

Dimensions (H x W x D):

24.125" x 21.188" x 13.125"

(613 mm x 538 mm x 334 mm)

Weight:

57.8 lbs. (26.2 kg)

PEAVEY ELECTRONICS CORPORATION LIMITED WARRANTY

EFFECTIVE DATE: JULY 1, 1998

What This Warranty Covers

Your Peavey Warranty covers defects in material and workmanship in Peavey products purchased and serviced in the U.S.A. and Canada.

What This Warranty Does Not Cover

The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Peavey; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized Peavey Dealer.

Who This Warranty Protects

This Warranty protects only the original retail purchaser of the product.

How Long This Warranty Lasts

The Warranty begins on the date of purchase by the original retail purchaser. The duration of the Warranty is as follows:

Product Category	Duration
Guitars/Basses, Amplifiers, Pre-Amplifiers, Mixers, Electronic Crossovers and Equalizers	2 years *(+ 3 years)
Drums	2 years *(+ 1 year)
Enclosures	3 years *(+ 2 years)
Digital Effect Devices and Keyboard and MIDI Controllers	1 year *(+ 1 year)
Microphones	2 years
Speaker Components (incl. speakers, baskets, drivers, diaphragm replacement kits and passive crossovers) and all Accessories	1 year
Tubes and Meters	90 days

[*Denotes additional warranty period applicable if optional Warranty Registration Card is completed and returned to Peavey by original retail purchaser within 90 days of purchase.]

What Peavey Will Do

We will repair or replace (at Peavey's discretion) products covered by warranty at no charge for labor or materials. If the product or component must be shipped to Peavey for warranty service, the consumer must pay initial shipping charges. If the repairs are covered by warranty, Peavey will pay the return shipping charges.

How To Get Warranty Service

- (1) Take the defective item and your sales receipt or other proof of date of purchase to your Authorized Peavey Dealer or Authorized Peavey Service Center.
OR
- (2) Ship the defective item, prepaid, to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301 or Peavey Canada Ltd., 95 Shields Court, Markham, Ontario, Canada L3R 9T5. Include a detailed description of the problem, together with a copy of your sales receipt or other proof of date of purchase as evidence of warranty coverage. Also provide a complete return address.

Limitation of Implied Warranties

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Exclusions of Damages

PEAVEY'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT PEAVEY'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. PEAVEY SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If you have any questions about this warranty or service received or if you need assistance in locating an Authorized Service Center, please contact the Peavey International Service Center at (601) 483-5365 / Peavey Canada Ltd. at (905) 475-2578.

FEATURES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



Logo referenced in Directive 2002/96/EC Annex IV (OJ(L)37/38, 13.02.03 and defined in EN 50419: 2005)
The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005



Features and specifications subject to change without notice.

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