



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, do not expose this appliance to rain or moisture. Before using this appliance, 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 evitar descargas eléctricas o peligro de incendio, no deje expuesto a la lluvia o humedad este aparato. Antes de usar este aparato, lea más advertencias en la guía de operación.



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.

AVERTISSEMENT: Afin de prévenir les risques de décharge électrique ou de feu, n'exposez pas cet appareil à la pluie ou à l'humidité. Avant d'utiliser cet appareil, lisez attentivement les avertissements supplémentaires de ce manuel.



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.

ACHTUNG: Um einen elektrischen Schlag oder Feuergefahr zu vermeiden, sollte dieses Gerät nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.

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. 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.
12. Only use attachments/accessories provided by the manufacturer.
13. 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.
14.  Unplug this apparatus during lightning storms or when unused for long periods of time.
15. 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.
16. 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.
17. If this product is to be mounted in an equipment rack, rear support should be provided.
18. 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!

Q™ SERIES EQUALIZERS

Thank you for purchasing a Peavey Electronics Q Series graphic equalizer. The Q family features one dual-channel model (Q2151) and one single-channel model (Q1311), both incorporating Peavey's legendary low noise, low distortion design. These ruggedly constructed Q Series EQs have 20 mm, center-detented control sliders enclosed in metal for durability. These one rack-space units also offer ± 12 dB gain control, switchable ± 12 dB or ± 6 dB frequency band boost/cut and an LED display indicating output level. Other shared features include switchable low cut filters, bypass switches and +21 dBu balanced inputs and outputs. Q Series EQ filters are set at ISO center frequencies within 3% accuracy. Whether on stage, in the studio or simply tweaking your home hi-fi system, the Q Series has an EQ for you.

FEATURES

Q2151

- ▶ **DUAL CHANNEL (15 BANDS PER CHANNEL)**
- ▶ **2/3 OCTAVE FILTER SETS**
- ▶ **25 Hz TO 16 KHz EFFECTIVE EQUALIZATION RANGE**
- ▶ **CONSTANT Q FILTERS**
- ▶ **SWITCHABLE ± 12 dB/ ± 6 dB OF BOOST/CUT IN EACH FREQUENCY BAND**
- ▶ **OUTPUT LEVEL LEDs (-12 TO +12 dB)**
- ▶ **24 dB PER OCTAVE 40 Hz LOW CUT FILTER WITH STATUS LED**
- ▶ **XLR AND 1/4" TRS INPUTS AND OUTPUTS FOR BALANCED OR UNBALANCED OPERATION**
- ▶ **BYPASS SWITCH WITH STATUS LED**
- ▶ **± 12 dB GAIN CONTROL**

Q1311

- ▶ **SINGLE CHANNEL (31-BAND)**
- ▶ **1/3 OCTAVE FILTER SETS**
- ▶ **20 Hz TO 20 KHz EFFECTIVE EQUALIZATION RANGE**
- ▶ **CONSTANT Q FILTERS**
- ▶ **SWITCHABLE ± 12 dB/ ± 6 dB OF BOOST/CUT IN EACH FREQUENCY BAND**
- ▶ **OUTPUT LEVEL LEDs (-12 TO +12 dB)**
- ▶ **24 dB PER OCTAVE 40 Hz LOW CUT FILTER WITH STATUS LED**
- ▶ **XLR AND 1/4" TRS INPUTS/OUTPUTS FOR BALANCED OR UNBALANCED OPERATION**
- ▶ **BYPASS SWITCH WITH STATUS LED**
- ▶ **± 12 dB GAIN CONTROL**

EQUALIZATION PROCESS

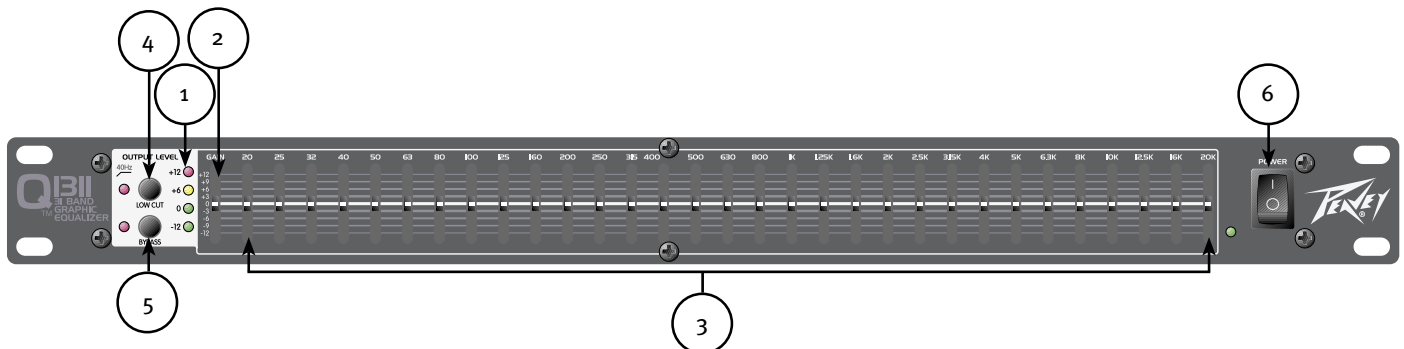
Always begin the equalization process with all sliders at their center-detent (flat response) positions. Lower each fader until the feedback frequency is found. Lower the faders in small amounts to avoid adversely affecting sound quality. Likewise, excessive boosting of a frequency may result in feedback.

EXERCISE CAUTION WHEN ATTEMPTING TO BOOST FREQUENCIES BELOW SPEAKER SYSTEM TRANSDUCER CUT-OFF.

Typical sound reinforcement enclosures are not designed for 20 Hz performance, and transducer damage could result from “over-boosting” low frequencies. Excessive boost at very low frequencies could also limit overall system headroom. Engaging the 40 Hz low cut filter is the best way to avoid these problems.

NOTE: Superb tonality, absence of feedback and great-sounding systems may not be attainable regardless of the equalizer used; all system components must be of high quality and designed for the application. No amount of equalization will correct poor acoustics, poor microphone/speaker arrangement or the response curve of a poor loudspeaker.

FRONT PANEL



FEATURES AND CONTROLS

(1) OUTPUT LEVEL LED METER

This LED array indicates output level from -12 dB to +12 dB.

(2) GAIN

This calibrated, detented control regulates overall gain of the EQUALIZER section (3). Total gain throughout the signal chain can be maintained by recovering lost signal gain at this point. The equalization process may result in noticeable signal loss. To compensate for this loss, engage the BYPASS (5) switch and compare the signal level with that of the equalized level. Increase the GAIN control until the equalized level approximates that of the bypassed level. Let your ears be your guide.

(3) EQUALIZER SECTION

These calibrated, detented controls adjust the amount of cut or boost within their respective

frequency bands. They are adjustable within ± 12 dB, or ± 6 dB for improved precision.

(4) LOW CUT FILTER

This switch activates the low cut filter, which rejects frequencies below 40 Hz. Frequency roll-off is 24 dB per octave with the switch engaged. This filter will operate even with the BYPASS (5) switch engaged. The adjacent red LED indicates activation.

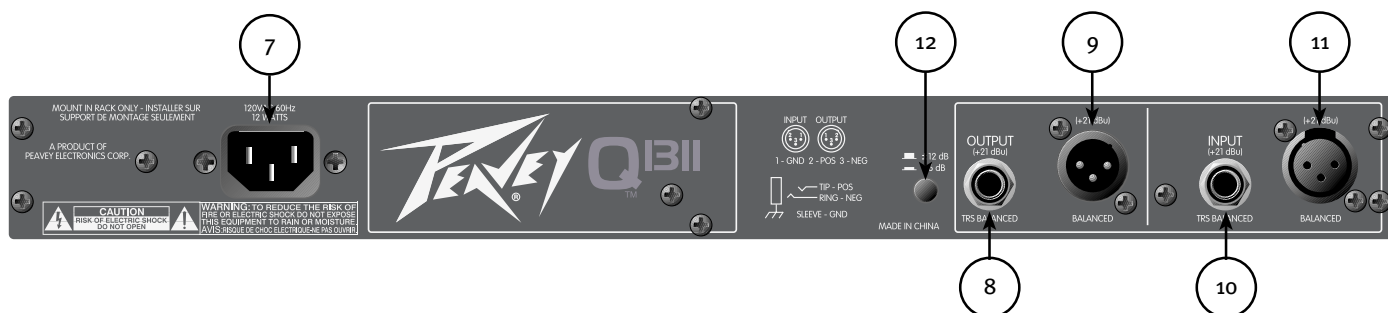
(5) BYPASS

When this switch is engaged, the signal is routed from the INPUT (10 and 11) through the LOW CUT FILTER (4) to the OUTPUT (8 and 9), bypassing the remainder of the unit.

(6) POWER

This two-position rocker switch applies mains power to the unit when in the ON position. The adjacent green LED indicates mains power activation.

REAR PANEL



(7) IEC MAINS CONNECTOR

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

Never remove the ground pin from 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 are properly grounded.

NOTE FOR UK USERS ONLY:

If the colors of the wires in the mains lead of this unit do not correspond to the colored markings identifying the terminals in your plug, proceed as follows: (1) The wire that is colored green and yellow must be connected to the terminal that is marked by the letter E or an earth symbol, or colored green or green and yellow. (2) The blue wire must be connected to the terminal that is marked with the letter N or the color black. (3) The brown wire must be connected to the terminal that is marked with the letter L or the color red.

(8) TRS BALANCED OUTPUT

These 1/4" tip/ring/sleeve (stereo) jacks provide balanced output when used with TRS connectors and two-conductor shielded cables. When used with a mono 1/4" (TS) phone plug, the output is unbalanced.

(9) XLR OUTPUT

These three-pin male connectors provide balanced output when used with female XLR connectors.

(10) TRS BALANCED INPUT

These 1/4" tip/ring/sleeve (stereo) jacks provide balanced input when used with TRS connectors and two-conductor shielded cables. When used with mono 1/4" (TS) phone plugs, the input is unbalanced.

(11) XLR INPUT

These three-pin female connectors provide balanced input when used with male XLR connectors.

(12) ± 12 dB/ ± 6 dB SWITCH

This switch changes the boost and cut range in each frequency band from ± 12 dB (default) to ± 6 dB for improved precision.

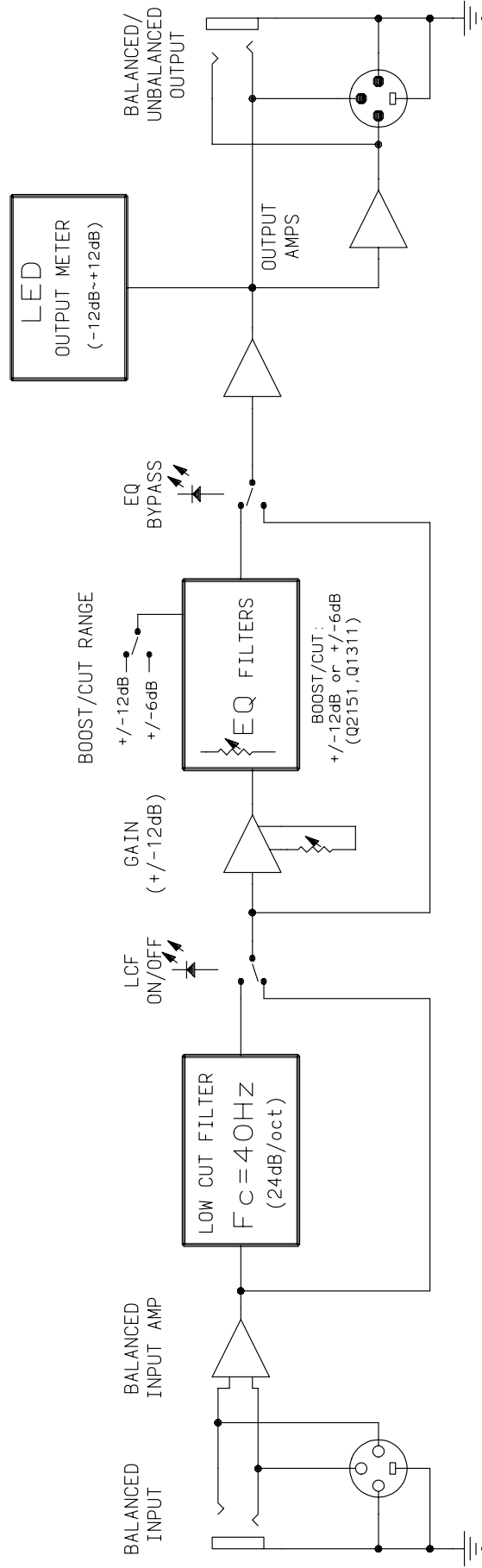
Q2151/Q1311 SPECIFICATIONS

SPECIFICATIONS*	Q1311	Q2151
Filter Q	4.77	2.3
Filter Center Frequencies, Hz	20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1 k, 1.25 k, 1.6 k, 2 k, 2.5 k, 3.15 k, 4 k, 5 k, 6.3 k, 8 k, 10 k, 12.5 k, 16 k, 20 k	25, 40, 63, 100, 160, 250, 400, 630, 1 k, 1.6 k, 2.5 k, 4 k, 6.3 k, 10 k, 16 k
Maximum Filter Boost/Cut	±12 dB / ±6 dB	±12 dB / ±6 dB
Output Noise		
Bypass Mode	-99 dBu	-99 dBu
Filter (Flat) Mode	-95 dBu	-95 dBu
<i>BOTH MODELS</i>		
Frequency Response	±1 dB (20 Hz – 20 kHz)	
Distortion	0.002% (20 Hz – 20 kHz)	
Input Impedance	Balanced 20 k Ohms	
Output Impedance	200 Ohms	
Maximum Input Level	+20 dBu	
Maximum Output Level	+20 dBu (Unbalanced); +26 dBu (Balanced)	
Nominal Input / Output Levels	0 dBu	
Input Headroom	+20 dB	
Output Headroom	+20 dB (Unbalanced); +26 dB (Balanced)	
Maximum Gain Boost/Cut	±12 dB	
Low Cut Filter	40 Hz @ 24 dB/oct	
Power consumption	Domestic: 120 VAC, 60 Hz, 12 Watts Export: 230 VAC, 50/60 Hz, 12 Watts	
Dimensions	1.73" (44 mm) H x 19" (483 mm) W x 7.375" (187 mm) D	
Weight	6.6 lbs. (3.0 kg)	

* All specifications are typical unless otherwise noted and referenced to nominal output level 0 dBu = 0.775 Volts.

Note: All specifications measured at 0 dBu (0.775 Volts RMS) input, unbalanced output, sliders at center position and all switches disengaged unless otherwise stated.

QTM SERIES BLOCK DIAGRAM



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.



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