

KB2 / KB3 Keyboard Amplifier Owner 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, 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.
-  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 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 ½	102
1	105
½	110
¼ 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!

KB[®]2/KB3

Keyboard Amplifiers

Thank you for selecting the KB2/KB3 keyboard amplifier. Once again, Peavey engineers have listened to input from keyboard players and put together an amplifier that combines excellent features and sound in one portable package. The KB Series amplifiers deliver awesome sound reproduction for all of your keyboard sounds—from thundering bass to crystal highs—it's all there!

Before you begin to play through your amp, it is very important to ensure 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. For the KB3, an external speaker jack is provided for the additional use of an external speaker enclosure. This feature is located on the rear panel as well and is also explained in this section. Each product feature is numbered. Refer to the control and rear panel diagrams 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.

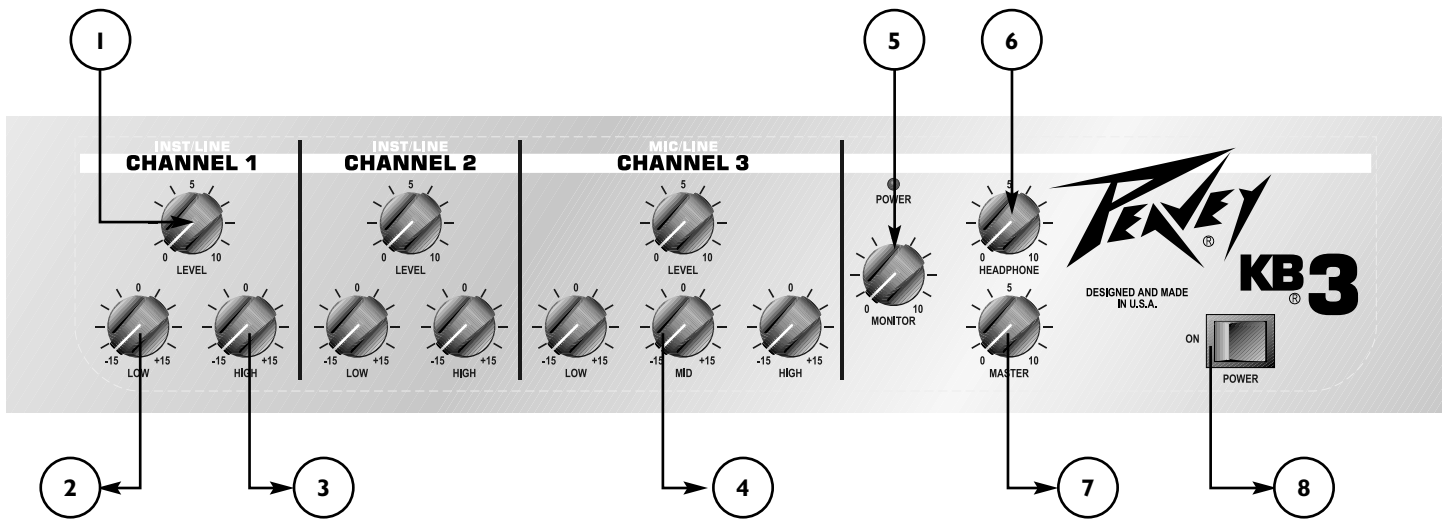
Features

- **4-channels (KB2 and KB3)**
- **KB2: biamped 45 watts and 12 watts**
- **KB3: 80 watts external, 60 watts internal**
- **balanced line out**
- **effects send/return jack**
- **external speaker capability (KB3 only)**

QUICK SET-UP GUIDE

1. Connect the line cord to the appropriately rated receptacle
2. Be certain that all levels are down or set to the fully counter-clockwise position and set all the EQs flat
3. Set the master level to the 12:00 position
4. Connect left output of your keyboard to the left input of the KB2/KB3 and connect right output of your keyboard to the right input of the KB2/KB3
5. Set the DDT switch to the enable position
6. Set the main/monitor switch to the monitor position
7. Turn on power to the KB2/KB3
8. Adjust the channel level for proper volume
9. Adjust the channel EQ as needed

FRONT PANEL



(1) Level

Controls the 1/4" jack input level on channels 1 and 2 and the 1/4" jack input and XLR input on channel 3.

(2) Low EQ

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 the possibility of speaker damage.

(3) Hi EQ

An active tone control (shelving type: ± 15 dB) that varies the hi frequency range.

(4) Mid EQ

An active tone control (peak/notch type: ± 15 dB) that varies the mid frequencies. (channel 3)

(5) CH4/Monitor Level

Controls the input level for channel 4. Controls high-impedance microphones or other high-level sources equipped with a 1/4" phone plug.

(6) Headphone Level (KB3 only)

This sets the level to the headphone jack on the rear panel. To avoid damage to your hearing, make sure to turn the dial fully counter-clockwise before using headphones. Slowly turn the knob clockwise until a comfortable listening level is set. This does not affect the master level.

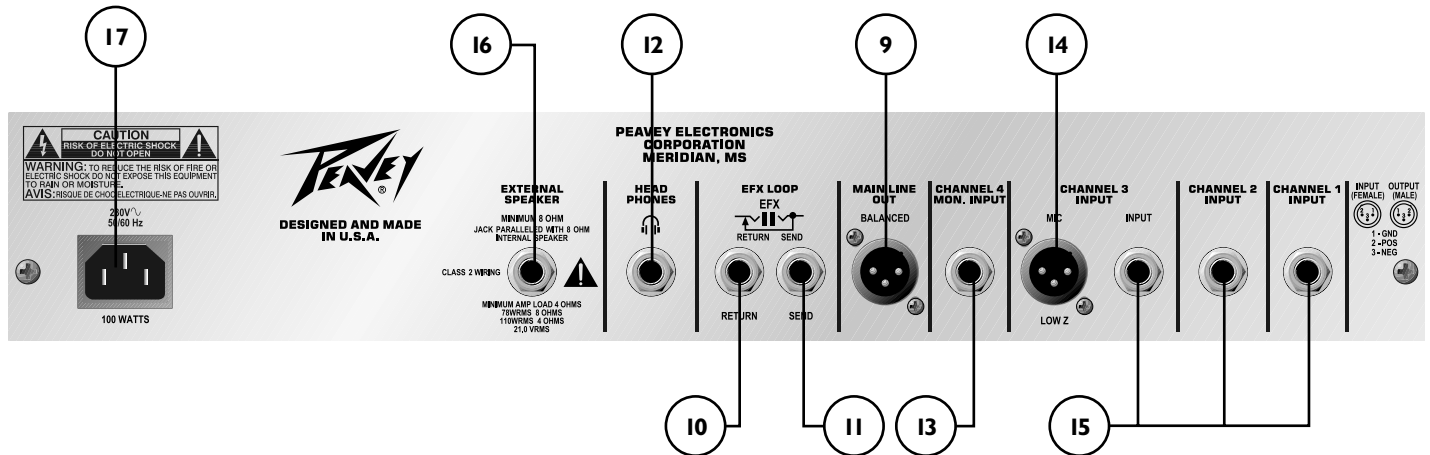
(7) Master Level (KB3 only)

This knob sets the overall level for the unit. Make sure the Master level is completely down (full counter-clockwise) before powering up the unit. This does not affect the headphone level.

(8) Power Switch

This two-way rocker switch applies power to the unit when placed in the ON position.

REAR PANEL



Main Line Out (9)

This low-noise, electronically-balanced XLR connector can be used to route signals to a mixing console, recording device, etc.

Send/Return Jacks Mains (10 & 11)

This pair of 1/4" jacks allow the use of various auxiliary units (effects units, equalizers, etc.) in-line, before the power amp section.

Headphone Jack (12)

This 1/4" jack accepts stereo headphones only.

CH4/Monitor Input Jack (13)

Use this 1/4" jack to connect to the output of any line-level device.

Channel: 3 Low-Impedance Input (14)

For use with low-impedance microphones or other line-level sources equipped with a male XLR connector.

Channels 3, 2 & 1 (15)

These 1/4" jacks accept high-impedance microphones or line-level sources equipped with 1/4" phone plugs.

External Speaker Jack (16) (KB3 only)

This 1/4" jack provides the powered signal from the amplifier. Use this jack to add a second speaker cabinet in parallel. The external minimum speaker load impedance is 8 ohms.

IEC connector/detachable line cord (17)

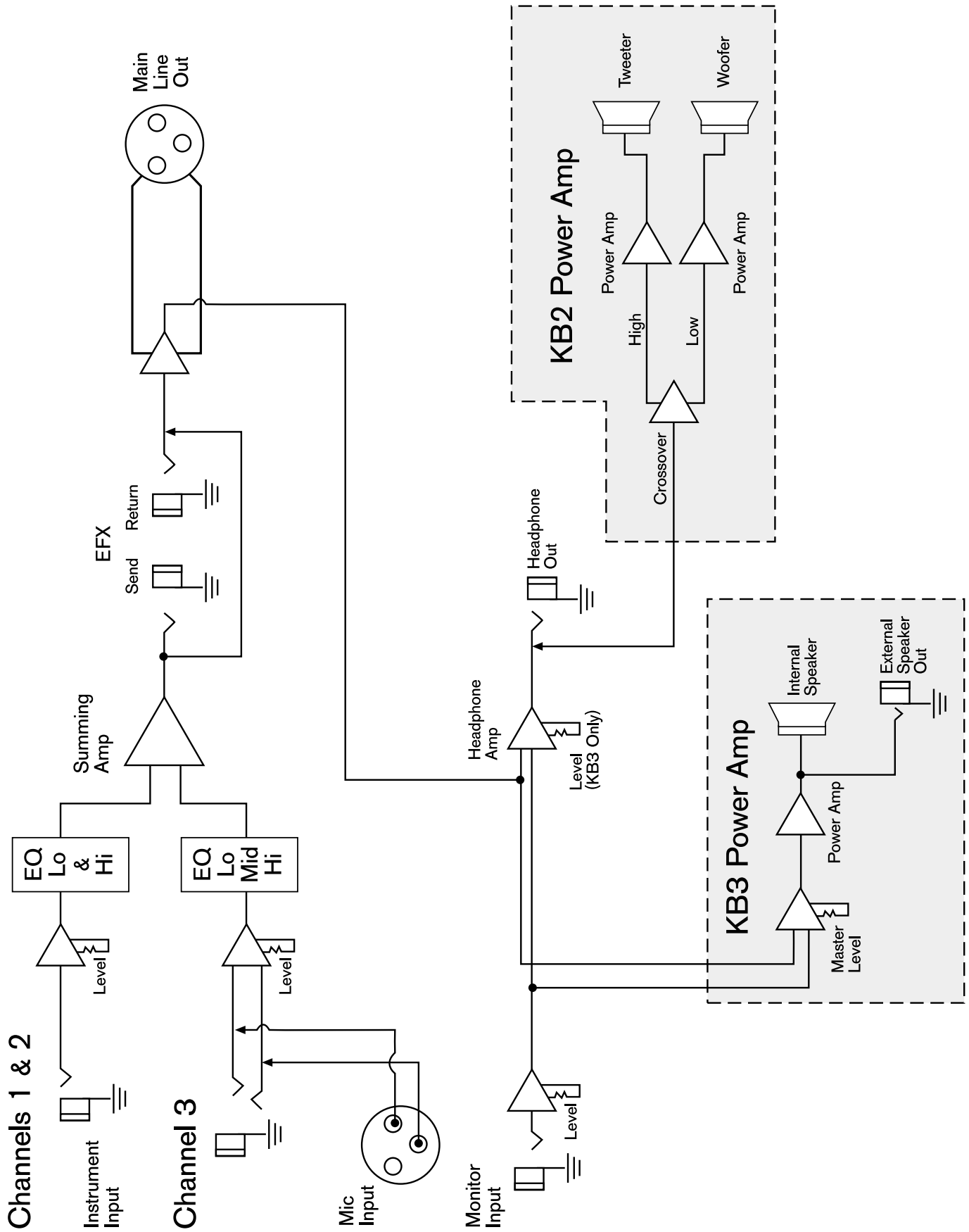
This is a standard IEC power connector. An AC mains cord having the appropriate AC plug and ratings for the intended operating voltage is included in the carton. The mains cord should be connected to the amplifier before connecting to a suitable AC outlet.

U.S. Domestic AC Mains Cord

The mains cord supplied with the unit is heavy-duty, 3-conductor type with a conventional 120 VAC plug with ground pin. 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 properly grounded.



KB2/3 Block Diagram



KB[®]3 SPECIFICATIONS

PREAMP SECTION

The following preamp specs are measured @ 1 kHz, nominal signal levels are with channel level controls set at 5, minimum levels are with channel level controls set at 10.

Channel 1 & 2 Inputs:

Input Impedance: 100k
Nominal Input Level: 6 dBV, 2 V RMS
Minimum Input Level: -10 dBV, 316 mV RMS

Channel 3 Input:

Low Z Input Impedance: 10k Ohms
Nominal Input Level: -15 dBV, 178 mV RMS
Minimum Input Level: -33 dBV, 22 mV RMS
High Z Input Impedance: 75k
Nominal Input Level: -15 dBV, 178 mV RMS
Minimum Input Level: -33 dBV, 22 mV RMS

Channel 4 Input:

Input Impedance: 10k Ohms
Nominal Input Level: 0 dBV, 1 V RMS
Minimum Input Level: -25 dBV, 56 mV RMS

Headphone Output

Load Impedance: 8 Ohms or greater
Nominal Output: 100 mW RMS

Main Line Out

Output Impedance: <100
Output Level: 18 dBV

POWER AMPLIFIER SECTION

Rated Power & Load:

80 W RMS/4 Ohms or 60 W RMS/8 Ohms

(1 kHz, 1% THD @ 120 VAC line)

Frequency Response:

+0, -1 dB, 20Hz–20 kHz @ 30 W RMS/8 Ohms

DDT Dynamic Range:

Greater than 20 dB

DDT Maximum THD:

Below 0.5% THD for 6 dB overload
Below 1% THD for 20 dB overload

Hum & Noise:

Greater than 100 dB below rated power

Power Consumption:

120 W @ 120V AC, 50/60 Hz, Domestic
120 W @ 220–230/240V AC, 60 Hz, Export

KB[®]2 SPECIFICATIONS

PREAMP SECTION

The following preamp specs are measured @ 1 kHz, nominal signal levels are with channel level controls set at 5, minimum levels are with channel level controls set at 10.

Channel 1 & 2 Inputs:

Input Impedance: 100 k
Nominal Input Level: 1.5 dBV, 1.2 V RMS
Minimum Input Level: -16 dBV, 158 mV RMS

Channel 3 Input:

Low Z Input Impedance: 10 k Ohms
Nominal Input Level: -21 dBV, 89 mV RMS
Minimum Input Level: -38 dBV, 13 mV RMS
High Z Input Impedance: 75 k
Nominal Input Level: -21 dBV, 89 mV RMS
Minimum Input Level: -38 dBV, 13 mV RMS

Channel 4 Input:

Input Impedance: 10 k Ohms
Nominal Input Level: 0 dBV, 1 V RMS
Minimum Input Level: -25 dBV, 56 mV RMS

Headphone Output

Load Impedance: 8 Ohms or greater
Nominal Output: 100 mW RMS

Main Line Out

Output Impedance: <100
Output Level: 18 dBV

POWER AMPLIFIER SECTION

Rated Power & Load:

45 W RMS/8 Ohms/low channel
12 W RMS/8 Ohms/high channel

(1 kHz, 1% THD @ 120 VAC line)

DDT Dynamic Range:

Greater than 20 dB

DDT Maximum THD:

Below 0.5% THD for 6 dB overload
Below 1% THD for 20 dB overload

Hum & Noise:

Greater than 90 dB below rated power

Power Consumption:

150 W @ 120V AC, 50/60 Hz, Domestic
150 W @ 220–230/240V AC, 60 Hz, Export

Crossover:

Fixed, 18 dB/octave, 3.5 kHz crossover frequency

NOTES:

NOTES:

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.



Features and specifications subject to change without notice.

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