



Ecooustic[®] Series

E20 Acoustic Guitar Amplifier

**Operating
Manual**





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. The on/off switch in this unit does not break both sides of the primary mains. Hazardous energy can be present inside the chassis when the on/off switch is in the off position. The mains plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
20. 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!

Ecoustic® E20

Acoustic Guitar Amplifier

Thank you for selecting the Peavey Ecoustic® E20 acoustic guitar amplifier. The E20 is perfect for practice, pre-gig warm-ups, song writing or any application where quality sound is important, but a large, bulky unit is just too much. The design of the E20 makes it a compact workhorse amplifier for acoustic guitar players, keyboardists and other musicians needing full-range output in a small package. At 20 Watts RMS, the E20's heavy-duty 8" speaker gets the job done! And for situations that require headphones, the E20 delivers. Two channels are provided, featuring 1/4" inputs, level controls, and two-band active equalization (Low, High). The front panel headphone jack automatically disables the internal speaker when connected. Special attention was given to make the E20 as compact and light as possible to maximize portability, yet provide a "big" sound. Go ahead, pick it up! At 17.4 lbs., it's perfect for "on-the-go" projects. And the size? Well, let's say it'll fit just about anywhere. Like all of the Ecoustic Series, the E20 is built for the road. First, extremely tough black covering is provided along with heavy-duty corners. Second, a heavy-duty metal grille is provided to protect the speaker. This amp is for real. Check it out, it's all there; sound, portability, road worthy design. Also, with every Ecoustic series amplifier, you get Peavey's excellent five-year warranty (check the warranty document at the end of the manual for full details), and the best in customer service from Peavey's award winning repair and service department.

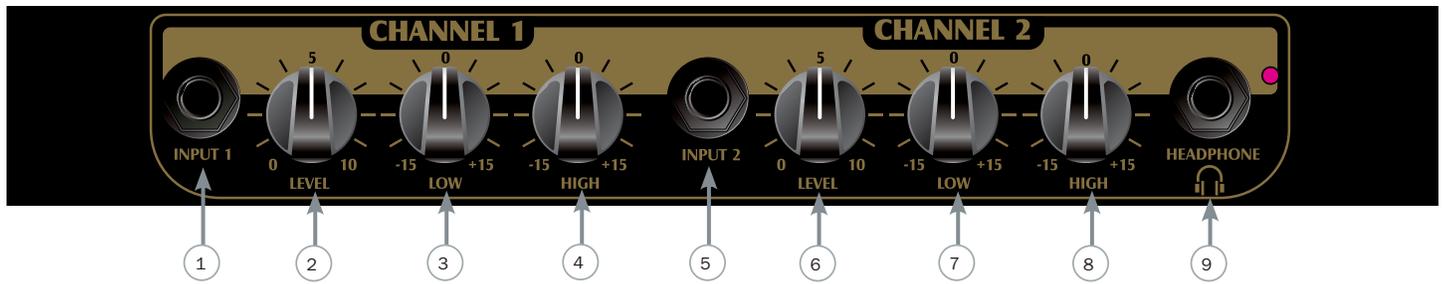


Please read this guide carefully to ensure your personal safety as well as the safety of your amplifier.

FEATURES:

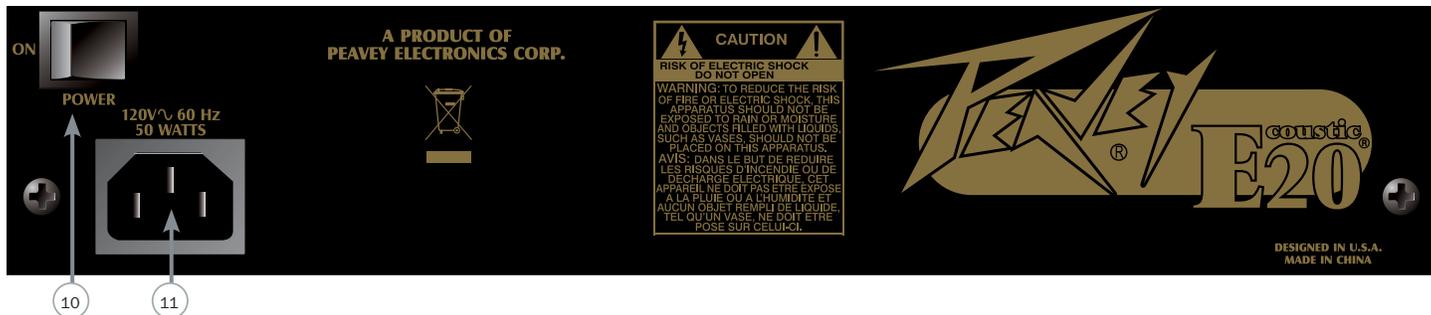
- Premium full range speaker
- 2 channels
- Separate inputs and EQ for each channel
- Headphone output
- Attractive styling

Front Panel



- 1 **INPUT (Channel One)**
Signal input for Channel One. This 1/4" jack input will accept signals from a variety of acoustic and keyboard instruments.
- 2 **LEVEL (Channel One)**
Controls the Channel One 1/4" phone jack input level.
- 3 **LOW EQUALIZATION (Channel One)**
An active tone control (shelving type +/-15 dB) for boosting or cutting the bass frequency range.
CAUTION: Excessive low frequency boost can damage the speaker.
- 4 **HIGH EQUALIZATION (Channel One)**
An active tone control (shelving type +/-15 dB) for boosting or cutting the treble frequency range.
- 5 **INPUT (Channel Two)**
Signal input for Channel Two. This 1/4" jack input will accept signals from a variety of acoustic and keyboard instruments.
- 6 **LEVEL (Channel Two)**
Controls the Channel Two 1/4" phone jack input level.
- 7 **LOW EQUALIZATION (Channel Two)**
An active tone control (shelving type +/-15 dB) for boosting or cutting the bass frequency range.
CAUTION: Excessive low frequency boost can damage the speaker.
- 8 **HIGH EQUALIZATION (Channel Two)**
An active tone control (shelving type +/-15 dB) for boosting or cutting the treble frequency range.
- 9 **HEADPHONE JACK**
An headphone jack is provided for stereo headphones. This switching jack disengages the internal speaker when plugged in.

Front Panel



10 POWER SWITCH

On/Off switch. The red pilot light illuminates when the unit is turned on.

11 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. 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 a heavy-duty, three conductor type with a conventional 120VAC plug with ground pin. If the outlet used does not have a ground pin, a suitable adapter should be used and the third wire grounded properly. All apparatus with class 1 construction shall be connected to a mains socket with a protective earthing connection.



Never break off the grounding pin on any equipment. It is provided for your safety. The use of extension cords should be avoided but, if necessary, always use a three wire type. Always use a qualified electrician to install any electrical equipment. To prevent the risk of shock or fire hazard, always be sure the amplifier and all associated equipment is properly grounded.

NOTE: For UK Only

If the colors of the wires in the mains lead of this unit do not correspond with 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, the earth symbol, colored green or green and yellow. (2) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black. (3) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.



Ecoustic® E2o Acoustic Guitar Amplifier Specifications

Rated Power & Load:

20 W(rms) into 4 ohms

Power @ clipping (typical):

(5% THD, 1 kHz, 120 VAC line)
20 watt RMS into 4 ohms

Total Harmonic Distortion:

Less than 0.5%, 100 mW to 12 watt RMS, 60 Hz to 10 kHz,
4 ohms (typically below 0.2%)

Power Consumption:

50 watts, 50/60 Hz, 120 VAC

Preamp Section:

The following specs are measured @ 1 kHz with the EQ flat @ 0 dB. Nominal values are with levels @ 5, minimum values are with levels @ 10.

Instrument Inputs:

Input impedance: 220 K ohms
Nominal input level: -4.5 dBV, 600 mV RMS
Minimum input level: -20.6 dBV, 93 mV RMS
Maximum input level: +12 dBV, 4 V RMS
Frequency response: +0, -2 dB, 50 Hz to 10 kHz

Headphone Output:

(Stereo headphone jack, mono signal)

Load impedance: 4 ohms or greater

Nominal power output: 20 mW into 4 ohms

(Switching jack disconnects the internal speaker when plug is inserted)

System hum and noise:

80 dBV (both channels operating)

Equalization (both channels)

15 dB @ 80 Hz and 8 kHz, shelving

Dimensions (H x W x D):

14.25" (362 mm) x 13.75" (349 mm) x 9.0" (229 mm)

Weight:

17.4 lbs. (7.89 kg)

NOTE: Specifications subject to change without notice.

PEAVEY ELECTRONICS CORPORATION LIMITED WARRANTY

EFFECTIVE DATE: JANUARY 1, 2009

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	2 years (+ 3 years)*
Digital Effect Devices	1 year (+ 1 year)*
Microphones	2 years
Speaker Components (including speakers, baskets, drivers, diaphragm replacement kits and passive crossovers)	1 year
Rockmaster® Series, Strum'n Fun, Vectra, Rotor®, OCC Stage Pack, GT & BT Series Amps, Retro Fire, Metal Maker, and Iron Wing	1 year
Tubes and Meters	90 days
Cables	Limited Lifetime

[*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. 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

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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