



XR[®] 8300 & XR[®] 8600D Powered Mixers

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, en el interior del cuerpo del producto, de “voltajes peligrosos” sin aislamiento protector, que pudieran ocasionar descargas eléctricas de la magnitud suficiente para ser consideradas como de riesgo para las personas.



Este símbolo tiene el propósito de alertar al usuario de la presencia de instrucciones importantes de operación y mantenimiento (servicio), que se encuentran en los documentos que acompañan al producto.

PRECAUCIÓN: Riesgo de descargas eléctricas — ¡EVITE ABRIR!

PRECAUCIÓN: Evite quitar la cubierta, a fin de reducir el riesgo de descargas eléctricas. No contiene componentes que puedan ser mantenidos o reparados por el usuario. Para todo mantenimiento o reparación acuda al personal de servicio cualificado.

ADVERTENCIA: Para evitar el riesgo de descargas eléctricas y de incendios, este equipo no se debe exponer a la lluvia o la humedad, ni se debe colocar sobre él objeto alguno que contenga líquidos, tales como floreros. Antes de utilizar este equipo, lea la guía de operación a fin de conocer acerca de otras advertencias.



Ce symbole est utilisé pour indiquer à l'utilisateur la présence d'un “courant électrique dangereux” non isolé pouvant être d'amplitude suffisante pour constituer un risque de choc électrique.



Ce symbole est utilisé pour indiquer à l'utilisateur qu'il ou elle trouvera d'importantes instructions concernant l'utilisation et l'entretien de l'appareil dans la documentation accompagnant le produit.


AVERTISSEMENT : Risque de choc électrique — NE PAS OUVRIR !

AVERTISSEMENT : Pour limiter les risques de choc électrique, ne démontez pas le boîtier. Aucun élément intérieur ne peut être révisé par l'utilisateur. Toute opération de maintenance doit être réalisée par un personnel qualifié.

ATTENTION ! Pour limiter les risques de choc électrique ou d'incendie, cet appareil ne doit pas être exposé à la pluie ou à l'humidité. De même, aucun objet contenant du liquide (vases, etc.) ne doit être placé sur cet appareil. Avant d'utiliser cet appareil lisez tous les avertissements de sécurité contenus dans le manuel d'utilisation.

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!

XR® 8300 & XR® 8600D

Powered Mixers

Congratulations on the purchase of your new XR 8300 or XR 8600D powered mixer from Peavey. The XR 8000 Series powered mixers include many of the latest technological developments from Peavey engineering. Incorporating a pair of 300, or 600, Watt amplifiers (XR 8300 and XR 8600D respectively), dual 7-band EQ, digital effects, FLS® (Peavey's award-winning Feedback Locating System), DDT™ speaker protection and a host of other features, these compact powered mixers are perfect for any application.

More power. More features. More reliability. All from Peavey!



Before you begin using your powered mixer 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 its number.

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

FEATURES:

- 8 improved, low-noise, mic preamps
- 10 line inputs
- 3-band equalization on each channel
- Monitor send on each channel
- Effects send on all channels
- 25 dB pad: channels 1–6
- Dual main or main/monitor power amp mode switch
- Dedicated 7-band EQ for mains/monitors with FLS™
- DSP-based effects; 16 presets with parameter control
- Signal/clipping indicator on each channel
- 48 Volt phantom power
- Dual 300 Watt per channel internal power amplifiers (XR 8300)
- Dual 600 Watt per channel internal power amplifiers (XR 8600D)
- DDT speaker protection with activity LED
- Mute switch for input channels 1–8



VENTILATION: For proper ventilation, allow 6" (15.5 cm) clearance on all sides.

CHANNEL CONTROLS

<p>1 HIGH EQ This High EQ shelving type of active tone control varies the treble frequency (± 15 dB at 12 kHz) and is designed to remove noise or add brilliance to the signal, depending on the quality of the source.</p>	
<p>2 MID EQ Mid EQ is a band pass (peak/notch) type of active tone control that varies the mid-range frequencies (± 15 dB at 450 Hz).</p>	
<p>3 LOW EQ A shelving type of active tone control that varies the bass frequency levels (± 15 dB at 70 Hz). Low EQ adds depth to thin-sounding signals or cleans up muddy ones. As with any EQ, use sparingly. Too much of this EQ can give you a booming bottom end.</p>	
<p>4 MON (monitor) This control varies the level of each channel signal (pre-EQ) that is added to the monitor mix.</p>	
<p>5 EFX The EFX control varies the level into the digital effects processor bus, adjusting signal level from the individual channel to the digital processor. It is post gain and will be affected by the gain control.</p>	
<p>6 SIGNAL/CLIPPING INDICATOR These LEDs illuminate green when a signal is present and red when clipping occurs. If clipping occurs, turn the gain (7) down. If the channel clips when turning the Level control up only slightly, try engaging the Pad switch (8).</p>	
<p>7 GAIN This control sets the signal level sent to the main mix.</p>	
<p>8 PAD Pad attenuates the input signal by -25 dB. If you notice distortion from a particular channel or if the channel becomes loud very quickly, try engaging this switch. In addition to increasing the dynamic range, the channel input can now accommodate a higher input level before clipping occurs, which may be helpful when close-mic'ing a loud guitar amp or drum kit, for example.</p>	
<p>9 LINE INPUT These line inputs are 1/4" balanced TRS inputs. The tip is the positive input which may also be used for unbalanced inputs. A pad switch is provided to attenuate strong signals present at this input. Note: The Mic input and the Line input cannot be used simultaneously within the same channel.</p>	
<p>10 MIC INPUT These mic inputs are XLR balanced, low-impedance channel inputs optimized for a microphone or other low-impedance source. Pin 2 is the positive input. Due to the wide range of gain adjustment, signal levels as high as +10 dBV (2.45 V RMS) can be accommodated with the pad switch engaged. When the phantom power is enabled, this connector has +48 V on pins 2 and 3 with pin 1 as the ground reference.</p>	

11 LINE INPUTS (Ch 7-8)

These high impedance 1/4" inputs are for line-level signals. The inputs are summed to mono, allowing a stereo source to be input into these channels. In critical situations, two mono line sources can be connected to one input.

12 TRACK SELECT

The input to Channel 9/10 can be selected as left (mono), right (mono) or summed mono input. This Track Select switch is specifically included to help when using soundtracks that are split into vocal and accompaniment tracks. By pressing the Left (L) button, the left signal is fed into both channels. By pressing the Right (R) button, the right signal is fed into both channels. However, when both buttons are simultaneously in the "UP" or "DOWN" position, the left and right channel signals are "summed together."

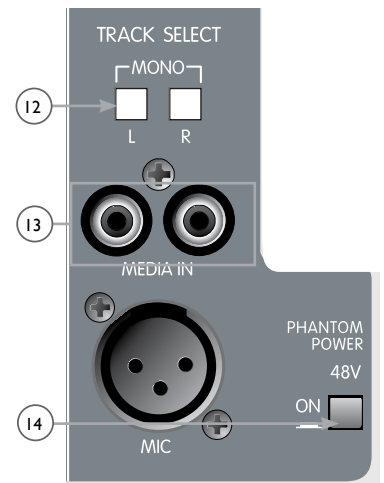
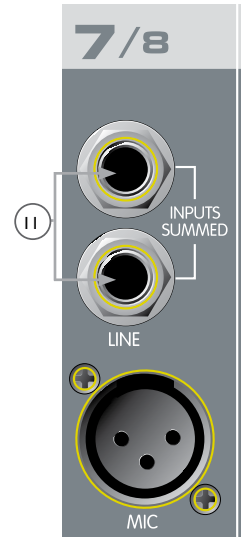
13 MEDIA IN

This pair of RCA jacks accepts a stereo input (-10 dBV nominal) from the output of an MP3 player, CD player, tape deck or other similar device. The signal is placed on the main channel as well as the monitor mix.

14 PHANTOM POWER SWITCH

When depressed, this switch applies 48 VDC to all input XLR connectors to power microphones that require phantom power.

Caution: When phantom power is switched on, make sure that any channel you are plugging a microphone into is turned down and the Master Main and Monitor controls are set to minimum. Otherwise, there will be a loud pop in the system. For best results, first plug in all microphones into their respective channels before phantom power is switched on. This reduces noise through the system and reduces the chance of damage to the microphones. If phantom power is used, do not connect unbalanced, dynamic microphones or other devices to the XLR inputs that cannot handle this voltage. (Some wireless receivers may be damaged. Consult their manuals.) The line input jacks are not connected to the phantom supply and are safe for all inputs (balanced or unbalanced). An unbalanced to balanced impedance converter such as the Peavey 5116 or a Peavey 1:1 Interface Adapter may also be used to isolate a microphone from phantom voltage.





Features and specifications subject to change without notice.

Peavey Electronics Corporation • 711 A Street • Meridian, MS 39301
(601) 483-5365 • FAX (601) 486-1278 • www.peavey.com