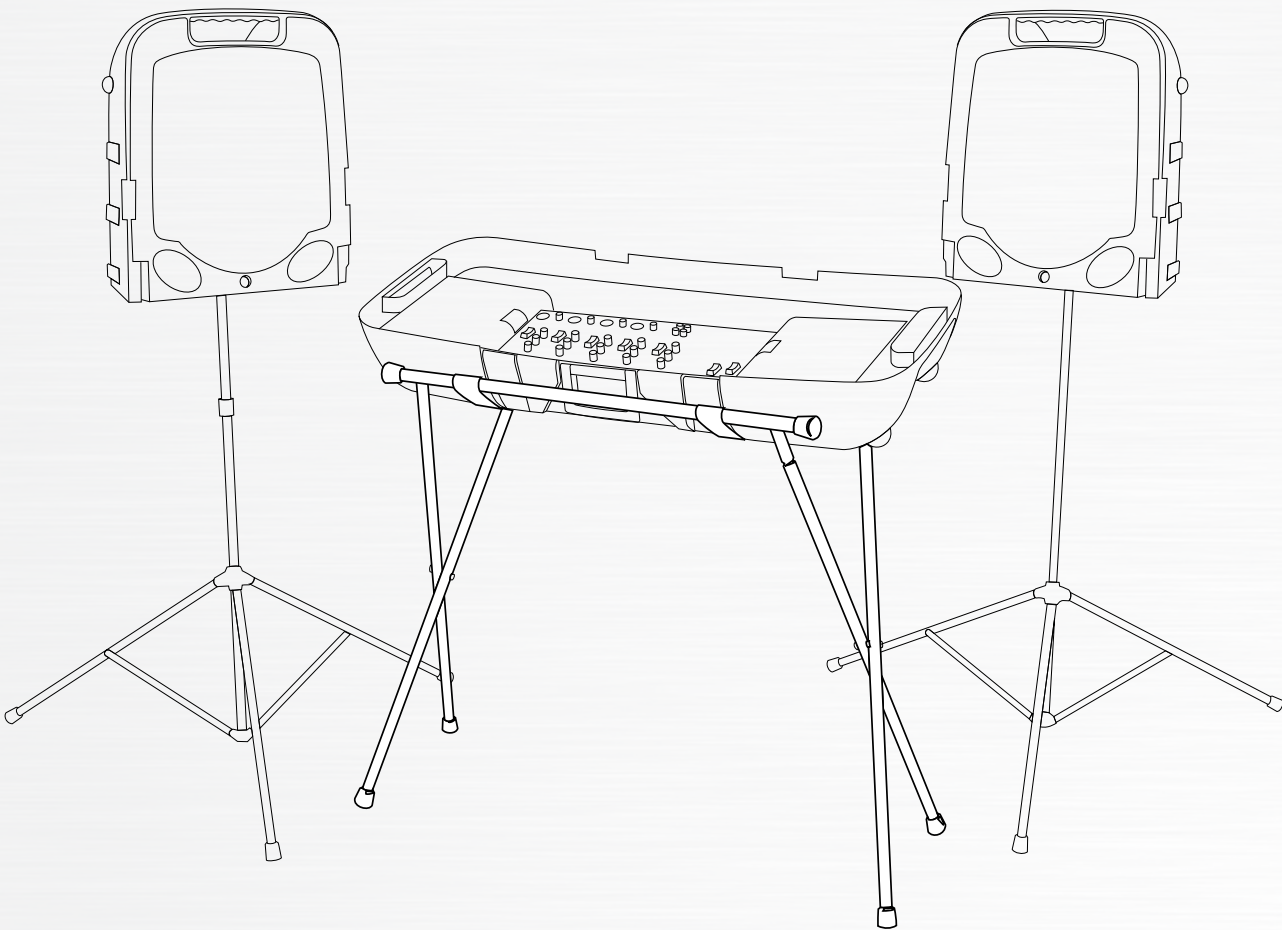





Escort® 6000 Portable PA System

Operating Manual



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. Earplugs 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!

Escort® 6000

Portable Pro Audio System

Congratulations! You have just purchased the world's finest portable PA system. The Escort's integrated design allows for ease of transport, while its user-friendly controls offer ease of operation, making it the perfect choice for schools, churches, civic organizations as well as DJ's and small musical groups. The Escort features dual two-way speakers driven by a nine-channel, powered mixer, making it ideal for vocal, musical and DJ applications. The mixer includes a media channel with several inputs for multiple playback options and Bluetooth®, as well as professional quality features such as a digital effects section, footswitchable effects defeat and a master seven-band graphic EQ with FLS® (Feedback Locating System). The carrying case provides additional storage for microphones, cables and whatever optional gear may be required. The Escort's case provides latches for mounting for speakers, multiple handles for various carrying options, and wheels for easy transport. Please read these instructions carefully and enjoy your new Peavey Escort 6000.

Features:

- Convenient package with luggage-style wheels
- Two-way speaker system with 10" woofer and piezoelectric horn
- Nine-channel powered mixer
- USB MP3 playback
- Bluetooth® connectivity for music playback
- High quality digital effects
- 7x XLR - 1/4" combination inputs
- Stereo RCA, 3.5mm, and USB media inputs for media playback
- Seven-band graphic EQ with FLS
- Two folding speaker stands
- 2x 15' speaker cables
- Sub-woofer out
- Monitor line level out
- Storage compartments for microphones, cables, etc.
- Footswitchable effects defeat
- PV microphone and cable*
- Mixer stand*

* Indicates optional features. Available on certain models

Setup Guide

THINK SAFETY FIRST!



Much of the setup of the Escort® is similar to the setup of other sound systems, and many aspects require plain common sense. Safety should always be your first concern. Always use grounded outlets and three-wire extension cords. Run sound system cables in a way to prevent the danger of tripping and tape them down if needed. Place the speaker stands and mixer on a solid, level surface. Following these guidelines will help prevent personal injury and equipment damage, ensuring years of trouble-free use.

Setting Up Mixer and Speakers

Place closed unit so speakers are upward. Release latches by lifting up until the latch disengages. Remove the speakers from the case.

NOTE: The latches can be closed after speakers are removed. This is recommended to avoid interference with removal of other components. This will also help avoid damage to the latches. Close the latch by pushing in until it is flush with the side of the case, then push down until it locks.

Remove the speaker stands from the case. Be sure the legs on the stand are fully extended to provide a stable base for the speakers and are positioned on a level surface. Tighten the thumbscrew on the base so that it is snug, but do not overtighten (Fig.1). Raise the speaker stands to the desired height, tighten the thumbscrew and install the safety pin as shown (Fig.2).

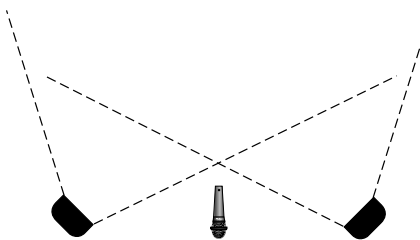


Fig. 1



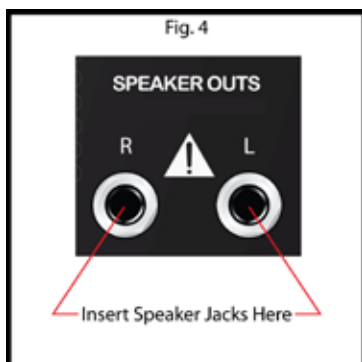
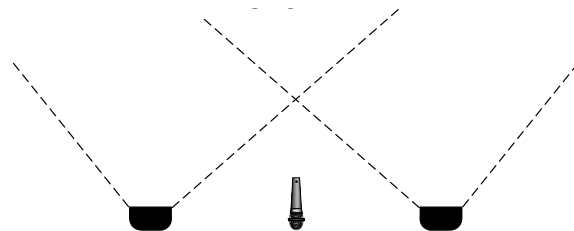
Fig. 2

Place speakers on stands and position them so that they will face toward the audience and away from the microphones (Fig.3). Connect speaker cables from the jack on the lower front of the speaker to the speaker outputs on the back of the mixer. Connect the left speaker to the LEFT OUTPUT and the right speaker to the RIGHT OUTPUT (Fig.4).



OR

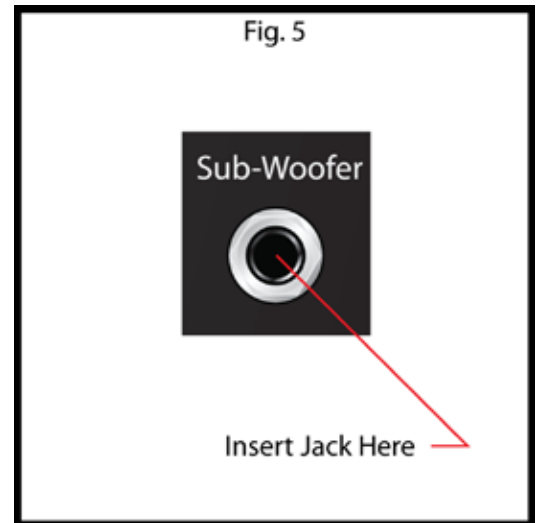
Fig. 3



WARNING! Only connect the included speakers to the mixer. Escort speakers provide optimal load for the powered mixer and using other speakers may result in equipment damage.

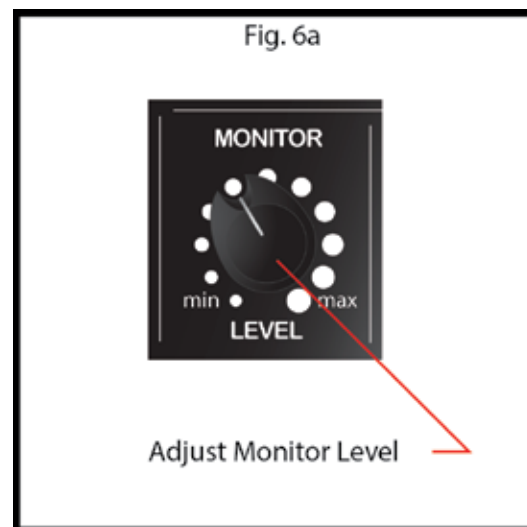
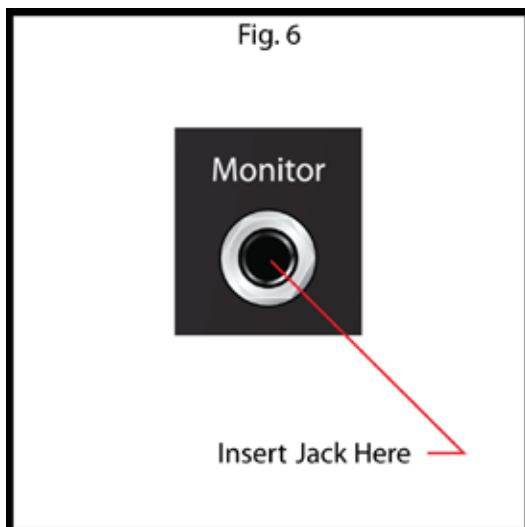
Connecting a Powered Sub-Woofer

The Escort® 6000 features a Sub-Woofer output that is internally crossed over at 100Hz. This output is line level so it will need to be connected to a POWERED Sub or a Power Amplifier that will then drive your passive Subs. Be sure the power for your Escort and your Sub-Woofer is turned OFF. Insert a 1/4" cable into the Sub-Woofer Output (Fig.5) on the back of the Escort, then insert the other end of the cable into your POWERED Sub-Woofer or power amplifier input.



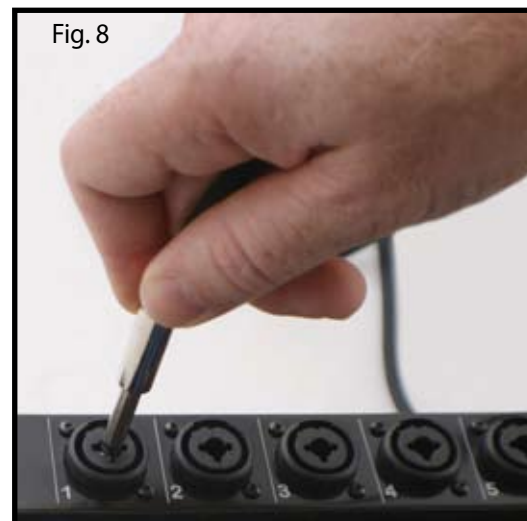
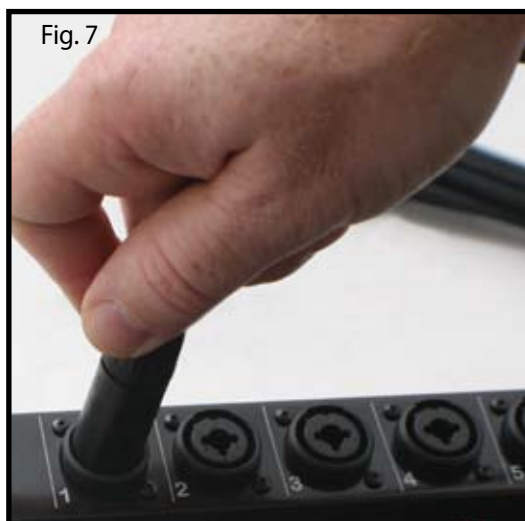
Connecting a Monitor

The Escort 6000 includes a full-range line level Monitor output. This is to be used when monitors are required for a performance. This output is line level so you will need to use POWERED Monitors or a separate power amplifier to drive passive monitors. Be sure the power to your Escort and your Monitors is turned OFF. Insert a 1/4" cable into the Monitor Output on the back of your Escort (Fig.6), then insert the other end of the cable to the input on your POWERED Monitors or power amplifier. This output can also be sent to another mixer or recording device to record the full-range signal from your performance. The level of the monitor mix can be controlled by the master monitor control (Fig. 6a).



Connecting Microphone(s) or Line Input(s)

The Escort's powered mixer is designed to work with any good-quality, balanced, dynamic or condenser microphone such as Peavey's PV®i series of microphones. Connect the microphone to the XLR (three-pin) input connector as shown (Fig.7). If using multiple microphones, connect them in the order they will be on stage for easy adjustment to each microphone. To connect a line level device such as a keyboard, use a 1/4" instrument cable and insert into the center of the XLR-1/4" combo connector as shown (Fig.8).



Connecting Media Playback Sources

The Escort® powered mixer will accept various media playback devices. For connecting a CD player or grounded record player use the CHANNEL 8 RCA Left and Right connections. For connecting an MP3 player or smartphone with media playback use the 3.5mm stereo connector. This will require a stereo 3.5 mm cable (03007820) which can be found at your local Peavey dealer. When using a USB memory stick with MP3 or other audio files stored on it, insert the memory stick into the USB connector on CHANNEL 9, make sure the USB/Bluetooth® button is in the USB position, and use the screen and controls in the master section to navigate and play back audio files (Fig.9). Bluetooth connectivity is covered later in the manual under the MEDIA section.



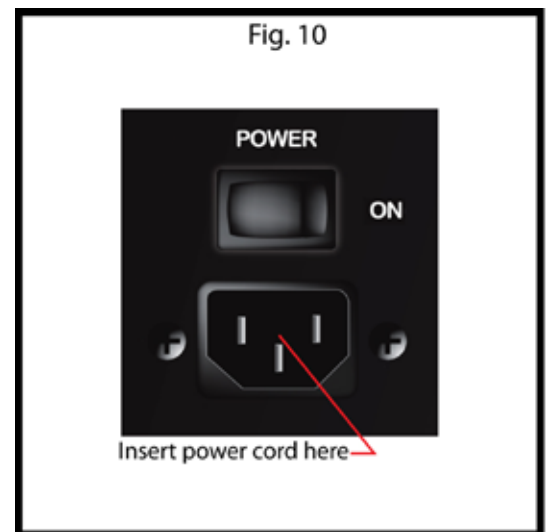
Connecting Power

WARNING! Before connecting power make sure the power switch is in the OFF position.

Connect the IEC power cord to the receptacle on the back panel of the unit as shown (Fig.10), and then to a suitable electrical outlet. If an extension cord is required, make sure it is a three-wire cord with an intact ground pin to preserve the safety ground.

NOTE: FOR UK ONLY

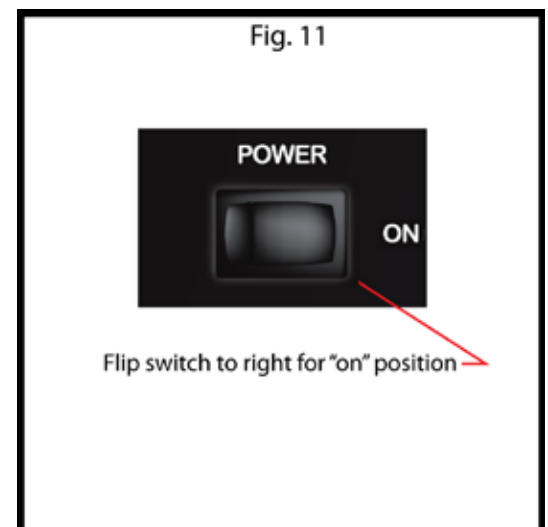
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: (1) The wire that is coloured green and yellow must be connected to the terminal that is marked by the letter E, or by the Earth symbol, or coloured green or green and yellow. (2) The wire that is coloured blue must be connected to the terminal that is marked with the letter N, or the colour black. (3) The wire that is coloured brown must be connected to the terminal marked with the letter L, or the colour red.



Basic Operation:

Setting Controls and Turning Unit On

Before turning on power, make sure all speakers, microphones, and other input devices are connected. Set Master section controls to the 12 o'clock position and all other controls all the way down (rotated fully to the left). Turn power on by placing the ON/OFF switch located on the back of the mixer (Fig.11) in the ON position.



Basic Operation:

Adjusting Gain and Volume Controls

The optimal setting for the powered mixer and included speakers is marked on the MASTER LEVEL control (Fig.12). Adjust the CHANNEL LEVEL control (Fig.13) until the desired volume is achieved. If the desired volume is reached with the CHANNEL LEVEL turned down to one of the first three positions, turn the MASTER LEVEL down so you can turn the CHANNEL LEVEL up. If the desired volume is achieved when the CHANNEL LEVEL is close to max then raise the MASTER LEVEL so you can lower the CHANNEL LEVEL. These are the same as any basic mixer functions.

Adjusting Tone Controls

For each active channel adjust the HIGH, MID-MORPH®, and LOW controls to achieve desired sound. Use moderation when making these adjustments, as extreme high settings of any of these controls can lead to a distortion of the sound and an increased chance of feedback on microphone inputs.

HIGH

This High EQ shelving type of active tone control varies the treble frequencies (+/- 15dB at 12kHz) and is designed to remove noise or add brilliance to the signal, depending on the quality of the source.

MID-MORPH

Where most mid-range controls work at just one frequency, the Mid-Morph works at two. When turned to the left, it cuts at 250 Hz to reduce frequencies that muddy the sound. When turned to the right, it boosts at 4 kHz to add intelligibility to vocals. Either way, improved vocal or instrument definition can be achieved.

LOW

A shelving type of EQ that varies the bass frequency levels (+/- 15dB at 80Hz). Low EQ adds depth to thin-sounding signals or cleans up the muddy ones. As with any EQ, use sparingly. Too much of this EQ can give you a booming bottom end.

Fig. 12



Open circles indicate optimal range

Fig. 13



Tone Controls

Channel Level Control

Effects:

Adjusting Effect Settings

The Escort® has built-in digital effects. These effects can be selected in the MASTER section by turning the EFFECTS SELECT knob left or right until the desired effect is shown on the display (Fig.14). Once the desired effect is displayed on the screen push the knob in to select and activate the effect. To adjust the effect parameter simply press the PARAMETER ADJUST button (Fig.14) the available parameter and its adjustments will be shown on the display. Turn the EFFECTS SELECT knob left or right to adjust the parameter then press the PARAMETER ADJUST button or the EFFECTS SELECT knob to return to the effects select screen. To hear more or less of the effect, on any given channel, turn the CHANNEL EFX knob to the left to hear less of the effect, and to the right to hear more of the effect (Fig.15). The EFX MUTE button in the master section (Fig.14) will mute the effects on all channels. There are no effects on the media channels.

Fig. 14



Press to MUTE effects on all channels

Press to enter Parameter Adjust mode

Turn knob to find effect, press knob "in" to select and activate effect

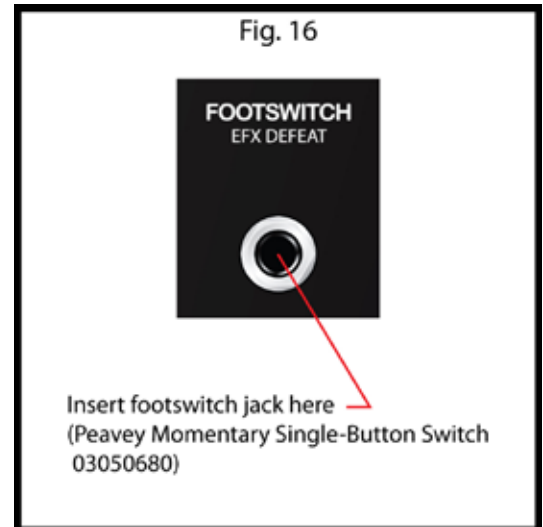
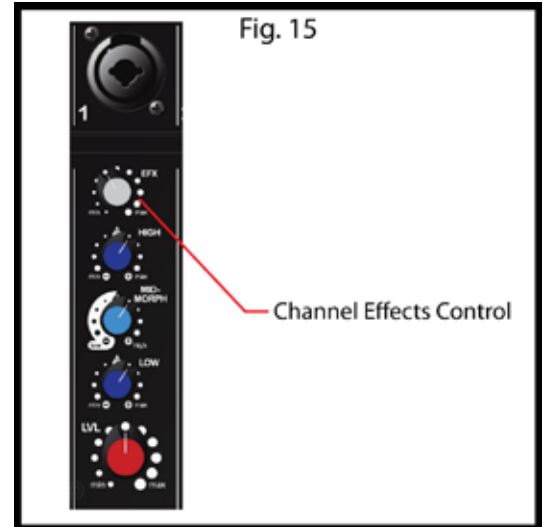
Effects:

Footswitchable Effects Defeat

Your new Escort® has a footswitchable effects defeat. This allows the user to mute the effects on all channels by use of a single button footswitch such as the Peavey Momentary Single-Button Switch (03050680) which can be purchased at your local Peavey dealer. Insert the 1/4" plug from the footswitch into the EFFECTS DEFEAT jack on the rear of the Escort mixer (Fig.16). Once connected, pressing the footswitch button will toggle the EFX MUTE (Fig.14).

Available Effects and Parameters

ON SCREEN NAME	EFFECT	AVAILABLE PARAMETER
1 REV Plate Br1	Plate Reverb Bright	Time
2 REV Plate Br2	Plate Reverb Gentle Low-Pass	Time
3 REV Plate Med	Plate Reverb Medium Low-Pass	Time
4 REV Plate Dk1	Plate Reverb Hard Low-Pass	Time
5 REV Plate Dk2	Plate Reverb Dark	Time
6 REV Vocal	Hall Reverb Vocal	Time
7 REV Vocal Big	Hall Reverb Vocal Huge	Time
8 REV Vox Warm	Hall Reverb Vocal Glow	Time
9 REV Strings	Hall Reverb Strings	Time
10 REV Lg Brass	Hall Reverb Brass Hall	Time
11 REV Vox Air	Room Reverb Vocal Air	Time
12 REV Vox Club	Room Reverb Vocal Club	Time
13 REV Snare	Room Reverb Snare Low	Time
14 REV Ac Guitar	Room Reverb Acoustic Guitar	Time
15 REV Sm Brass	Room Reverb Brass	Time
16 ENH Tube	Enhancer Tube Distortion	Brightness
17 ENH Vocal 1	Vocal Enhancer Vox	Brightness
18 ENH Vocal 2	Vocal Enhancer Vox Medium	Brightness
19 DLY Double	Delay Double	Time
20 DLY Slap	Delay Slapback	Time
21 DLY BRT 1	Delay Bright, Few Repeats	Time
22 DLY BRT 2	Delay Bright, More Repeats	Time
23 DLY BRT 3	Delay Bright, Most Repeats	Time
24 DLY Dark 1	Delay Dark, Few Repeats	Time
25 DLY Dark 2	Delay Dark, More Repeats	Time
26 DLY Dark 3	Delay Dark, Most Repeats	Time
27 CHO Deep Slow	Chorus High Depth, Slow Rate	Rate
28 CHO Mod Wide	Chorus Moderate Depth, Wide Rate	Rate
29 CHO Shrt Wide	Chorus Short Depth, Wide Rate	Rate
30 CHO Shrt Fast	Chorus Short Depth, Fast Rate	Rate
31 CHO Deep Mod	Chorus High Depth, Moderate Rate	Rate



MEDIA:

Playback from Media Source

Hook up your media source device as mentioned previously. Hook up your media source device as mentioned previously. When using RCA jacks for a CD player, record player, or tape machine make sure the 3.5mm TRS jack is not in use (Fig.17). Use the controls on the source device for play, stop, forward and reverse functions. Adjust channel controls on Escort® mixer for desired sound. For media playback using a MP3 player, smartphone, or other similar device connect using a stereo 3.5mm cable mentioned previously. Use the source device for playback controls. When a device is connected to the 3.5mm jack the RCA jacks are automatically disabled. For MP3 or audio file playback from a USB memory stick make sure the button is in the down position (Fig.18) so the USB plug is active. The currently active digital input (USB or Bluetooth®) will be displayed on the LCD in the Master section. Playback from a Bluetooth media source is covered later in this section.

NOTE: The Escort does not allow playback through multiple media inputs simultaneously.

With your USB device attached, use the MEDIA SELECT knob (Fig.19) to navigate through your audio files. Once the desired file is displayed on the screen press the MEDIA SELECT knob to cue that file. Use the controls on the mixer for play, pause, forward and reverse. If you do not choose to navigate or select a certain file the Escort will play the files in the order they are stored on your USB memory device.

Supported Audio File Types

.WAV
.MP3
.WMA

Bluetooth®

Bluetooth/USB switch

Selects the audio source for channel 9. In the “down” position, the audio source is the USB slot. The LCD will indicate the slot is ready for a jump drive, and will display “Insert USB drive” (Refer to SETUP section, Connecting Media Playback Sources). In the “up” position, the audio source will be any connected Bluetooth device. The LCD will indicate this by displaying “Bluetooth Input”.

Bluetooth Active LED

The blue “Bluetooth Active” LED indicates the status of the Bluetooth connection. If the LED is off, the Bluetooth module is powered off. If the LED is flashing, the Escort is not paired with any device, but is available for connection. If the LED is lit continuously, that means a Bluetooth enabled device is paired with the Escort.

Bluetooth Operation

To listen to the music via the Bluetooth wireless connection, you must first pair (link) your Escort 6000 with your Bluetooth phone and/or music device.

Turn off any Bluetooth devices previously paired with the Escort 6000.

Turn on the Bluetooth feature on your phone or music device.

Make sure the Escort 6000 is ready for a Bluetooth connection.

The Bluetooth/USB switch must be in the “up” position.

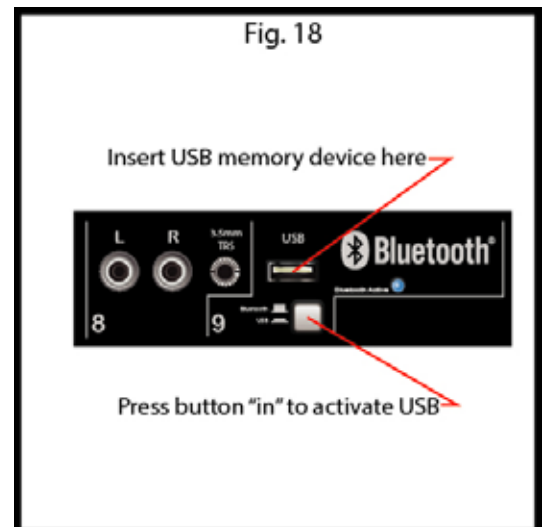
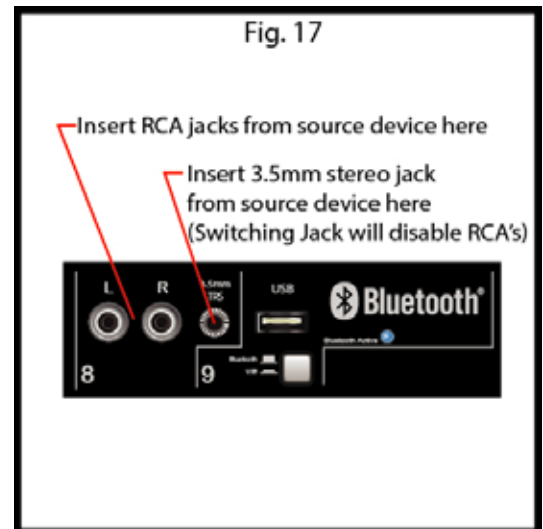
The “Bluetooth Active” LED should be flashing.

The LCD will say, “Bluetooth input”.

Place your phone or music device in Bluetooth search mode. The phone or music device will begin searching for the Escort 6000.

Select “ES6000” from the search results on your phone or music device.

Select Ok or Yes to pair your Escort 6000 with your phone or music device.



When your Escort® 6000 successfully pairs and connects with your phone or music device, the Bluetooth® Active LED changes from flashing to steadily lit. You will now be able to play music from your connected music source through your Escort 6000. The level can either be adjusted from the connected source or by the level control in channel 9.

*Wireless range can vary depending on Bluetooth class of source device, and may be subject to interference from obstructions such as walls or other electronic devices.

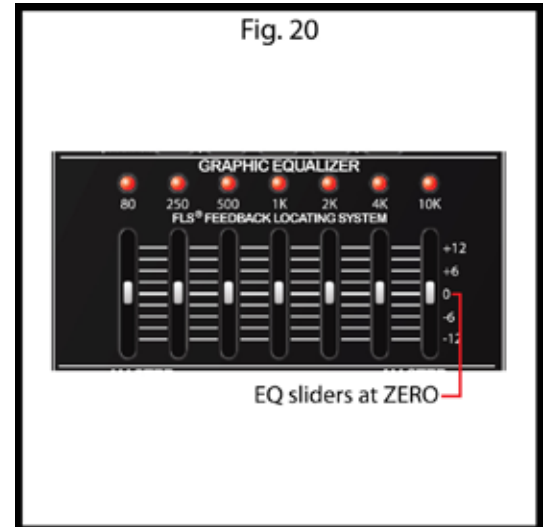
EQUALIZATION:

Using the Graphic Equalizer

Unlike the HIGH, MID-MORPH, and LOW controls on each channel that adjust only the tone of their own input signals, the seven-band graphic equalizer adjusts the tonal balance of all the signals going through the powered mixer. This graphic equalizer is also a powerful tool to help reduce or eliminate acoustic feedback. This offers the user great flexibility in adjusting the sound, but use moderation in making these adjustments.

FLS® Feedback Locating System

The FLS (Feedback Locating System) LED indicators are invaluable tools in helping to reduce/eliminate feedback. Acoustic feedback is the loud howl or squealing sound heard through sound systems as the result of sound from the speakers re-entering the microphones. To use the FLS feature, start by setting all graphic EQ sliders (Fig. 20) to 0. Then before the audience arrives, increase the MASTER LEVEL and/or CHANNEL LEVEL until feedback occurs. Note which LED illuminates and slightly lower the corresponding slider. This reduces gain at the feedback frequency and can be repeated if necessary to improve gain before feedback. Only adjust the sliders a small amount to avoid adversely affecting sound quality.



GENERAL USE TIPS:

Avoiding Acoustic Feedback

When encountering feedback it is always best to start looking at the placement of the mics and speakers in the system before resorting to equalization (EQ) adjustments. Make sure that the speakers are positioned to direct the sound toward the audience and away from the microphones. Position mics as close to the sound source as reasonable. Moving the mic closer increases the volume of the sound through the system without having to turn up the gain.

Microphone Usage Guidelines

When practical, a single microphone is preferred. Additional microphones pick up more sound from the speakers and each mic must then be turned down to prevent feedback. However, if you have difficulty balancing the level of different individuals with one mic or if you still cannot get sufficient gain, using more mics can offer an advantage. For example, giving several singers their own microphone allows placement of the microphones much closer to each singer. This increases the volume of the sound at the mic and far outweighs any detrimental effect from using multiple mics. It also allows the volume of each mic to be adjusted separately for proper balance.

Packing the Escort®

One of the Escort's many benefits is that the entire sound system can be packed inside its easily transportable case (Fig.21). Begin by folding the speaker stands, then secure them into their storage compartment using the two straps. Place the optional microphone(s) in their storage compartment, putting the cables in the other compartment or with the speaker stands. Lay the speakers face down on top of the bottom tray and secure the four latches. The Escort is now ready to be carried or pulled on its built-in, luggage-style wheels.

Fig. 21



OPTIONS:

Optional Accessories (available from local Peavey dealer)

Microphone Stands - Tripod mic stand with boom (00722910)

Additional Microphones and Cables - PVi® 2 mic with cable included (00496360)

Microphone Wind Screens - Black wind screen (00069100)

Additional Speaker Cables in Various Lengths - 25' 16 AWG (00060450)

Additional Speaker Stands in Various Sizes - Black Speaker Stand (00722890)

Audio Cables for CD Player, Record Player, Tape Machine, or MP3 Player/Smartphone Hook-up

Optional Mixer Stand Assembly (00496340)

Remove the mixer stand from the case. The mixer stand consists of three parts: two pairs of legs and the stand cross-members (Fig.22). Hold the stand cross-member with the leg sockets together as shown (Fig.23). Fully insert one set of legs into the cross-members (Fig.24). Still holding the cross members together, set the legs on the floor and insert the second pair of legs. If you need to move the stand, carry it folded by holding the legs.



WARNING: For safety, be sure to fully open the mixer stand and place it on a stable, level surface.

Fig. 22



Fig. 23

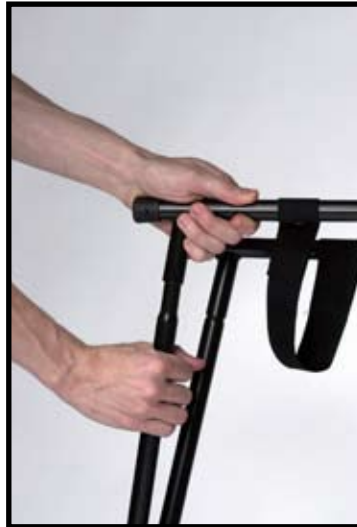


Fig. 24



Escort® 6000 Troubleshooting Guide

Problem	Check	Correction
No sound (LCD not lit)	Is power switch on? Is line cord connected to live power outlet?	Turn power switch on Connect power cord to live outlet
No sound (LCD lit)	Are MASTER and CHANNEL GAIN controls up?	Adjust both MASTER and CHANNEL LEVEL controls upward to desired level. Check speaker connections. Turn mic switch on. Check mic or sound source connection.
No Effects	Are the channel EFX controls turned up? Is the master EFX MUTE enabled? Is an effect activated in menu?	Make sure desired effect is selected in Master effect menu. Check the master EFX MUTE. If the LED is illuminated the EFX MUTE is active. Press the EFX MUTE button once to disable. Adjust channel EFX control until audio effect is heard.
Files on USB memory device will not play back	Is the file cued for playback? Are the audio files the proper format?	Make sure once MEDIA SELECT knob is rotated to display desired file the knob is then pressed to cue the file. Make sure your audio files are the correct format. See the list of supported audio formats mentioned previously in this manual.
Loud howling or squeal from speakers	If it goes away when the CHANNEL or MASTER LEVEL controls are turned down, then it is acoustic feedback.	Reduce microphone gain. Reposition microphone behind or farther from speakers. Observe FLS light above Graphic EQ and reduce level of corresponding slider.
Sound is distorted	Is the CHANNEL GAIN at a very high setting?	Reduce LEVEL controls accordingly. Start with CHANNEL LEVEL then adjust MASTER LEVEL accordingly to achieve desired volume with no distortion.
No sound (Bluetooth®)	Is the “Active” light flashing?	Place the Bluetooth/USB switch in the “Bluetooth” position. Bluetooth enabled device must be “paired” before music can be played through the Escort 6000. Once the device is paired, the Active LED will light continuously.

Escort® 6000 Specifications:

Output Power:	300 watts RMS (per channel)
Frequency Response:	40 Hz to 20 kHz +/-3 dB
Overload Protection:	10 dB of DDT™ that limits the PA output to prevent clipping that can damage the speakers
Distortion:	Less than 0.2% THD @ Max power
Signal/Noise Ratio:	88 dB mic input typical
AC Power:	115 V AC 60 Hz or 230 V AC 50/60 Hz
Weight Assembled: (stands included)	50 lbs. (22.67 kg)
Dimensions:	14.5” H x 36.75” W x 15.5” D (36.8 cm x 93.3 cm x 39.4 cm)
Speakers:	Woofer 10” (254 mm) Piezoelectric Horn Tweeter