

# **Fender Passport PD-250**

## **Deluxe Portable Sound System**

### **INTRODUCTION**

#### **250 Watts of Clear Stereo Sound**

**Custom Designed Loudspeakers Utilizing the latest in High-Performance Speaker technology**

#### **Built-in Digital Reverb**

**VIP™ (Vocal Input Priority) Allows input one to automatically override all other inputs when a signal is present on input one**

**Four Mono Microphone / Line Inputs with XLR and 1/4" balanced inputs connections**

**Two Stereo Inputs with 1/4" and RCA Connections**

**Switch Mode Power Supply Allows Use Anywhere In The World**

#### **Everything You Need To Get Started:**

- Passport Mixer Amplifier
- Two Dynamic Microphones & Cables
- Two Speaker Cables, 9m (30')
- IEC Power Cable
- Two, State of the Art, Full-Range Speaker

#### **Enclosures**

- Full transportation enclosure

Congratulations on your purchase of a Fender Passport PD-250 high performance, self-contained portable audio system. Your Passport includes everything you will need for great sound... Anywhere.

Carry your Passport as you would a large sized suit case. Flip open the speaker latches, and you'll discover two full-range speaker cabinets, a powered mixer, dynamic microphones, plus all the cables you need to get started. Use your Passport to amplify voices, musical instruments, computer sound cards, CD's, tape playback and more. Passport's quick and easy set-up, its ability to cover large audiences and simple operation are the hallmarks of this innovative product line.

The Passport's control panel features four mono mic/line inputs and two stereo channels (six channels total). The stereo input channels can be used for either mono or stereo operation allowing superb flexibility in input use. Moreover, the revolutionary speaker technology in each speaker enclosure deliver remarkably clean, full range sound with exceptional audience coverage and remarkable feedback rejection. The self-powered mixer provides a total of 250 watts of high quality stereo sound.

For vocal operation, the Passport's VIP (Vocal Input Priority) feature can be used to reduce or "duck" the background music level as you begin to speak and then restore your background music when you have finished speaking. Experiment with the tone controls, digital reverb and speaker placement and discover the Passport's incredible power and versatility.

#### **IMPORTANT SAFEGUARDS:**

- **WARNING : TO PREVENT DAMAGE, FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.**
- **NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED PERSONNEL ONLY.**
- **THIS UNIT MUST BE EARTH GROUNDED.**



This symbol warns the user of dangerous voltage levels localized within the enclosure.



This symbol advises the user to read all accompanying literature for safe operation of the unit.

## SAFETY PRECAUTIONS



The Fender Passport sound system is supplied with a detachable power cable with an IEC female connector and a male AC connector.

Depending on the territory in which the Passport system is purchased, the power cable will be supplied with one of a number of male AC connectors to accommodate the different safety and code requirements of specific countries. All AC cables supplied with Passport products are three pin grounded types.

Under no circumstances should the ground (earth) pin be disconnected or removed.

Your Passport System features a Switch-Mode-Power-Supply designed to operate on any AC voltage and line frequency to convert AC power with maximum efficiency.

When traveling abroad with the Passport system, as a standard precaution, always check the local voltage and set the voltage selector switch located adjacent to the power input socket on the rear of the mixer / amplifier to the appropriate operating range. This check must be performed before connecting the power cable. The Fender Passport has two range settings: 115 V or 230 V.

*Failure to select the appropriate voltage range will cause the unit to go into protect mode, void any warranty and may cause damage to the unit.*

For example, The United States of America is standardized at 117 volts / 60 Hz, Japan operates on 100 volts / 50 Hz. For both of these countries the range selector must be set to 115 V. Countries in the EEC have standardized at 230 volts / 50 Hz., however, there are different types of AC plugs used. For all these countries the selector should be at the 230 V position. When using plug adapters or operating in a territory other than the one in which the unit was purchased, take great care to comply with local safety requirements and electrical codes of practice.

**If you are not sure of the local voltage, wiring codes & colors, AC grounding, or correct procedures for connection, consult a qualified technician.**

### Warning

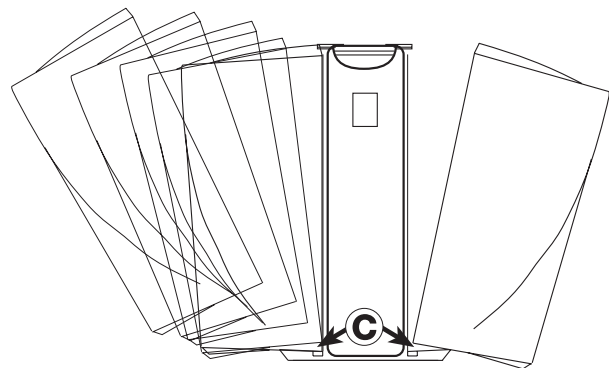
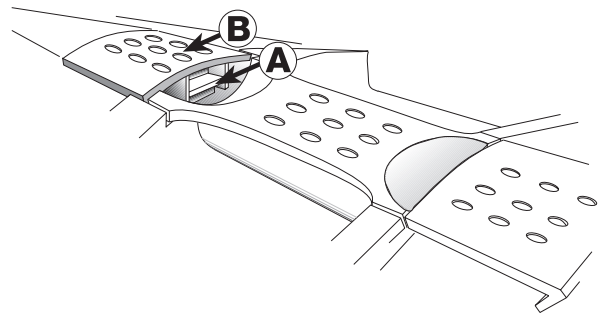


Under no circumstances should the ground pin on the Passport or on any of your electrical equipment be lifted (cut off or disconnected).

By following the correct procedures and safety precautions, risks of severe shock hazard can be minimized. Best of all, avoid operating the system in conjunction with ungrounded or improperly grounded electrical equipment.

## TRANSPORTATION LATCHES

To open and close your Passport system, simply follow these guidelines:



1. Place your finger tip under the safety latch and gently lift. When the safety latch has disengaged, lift the main latch to remove the speaker.

2. To replace, position the speaker on the tower foot and bring the speaker in to close the engagement with the tower and latch. Position the latch hook over the speaker notch and close the latch. The safety latch will automatically engage.

*Note: These parts are precision engineered and no force is needed to secure them. Careful alignment of parts will ensure easy operation.*

## MONO MIC / LINE CONTROL FUNCTIONS

### CHANNELS 1 - 4



**J. LEVEL** – Adjusts the volume level of the individual channel. Rotating the knob clockwise increases the respective channel’s contribution to the “Main Out” mix, while rotating it counterclockwise decreases the volume. Adjust this control after the Passport’s master output level volume has been set.

**K. VIP (CHANNEL 1 ONLY)** – The VIP or Vocal Input Priority control adjusts the level at which the volume of all other channels are automatically reduced in favor of the source attached to the Mic/Line Input 1. This unique feature permits a user to speak while other inputs (such as background music) continue at temporarily reduced levels. The VIP circuit is “pre-volume control” which means it is effective regardless of level control setting of channel one. Adjust this control while speaking into a microphone on channel 1, with other program material input through another channel. Depending on the duration and level of the signal being input to Mic/Line 1 and the position of the control, the VIP circuit will trigger a reduction in level of all the other channels. The original levels will be automatically restored when there is no signal present on channel 1. In typical use, the circuit will return normal levels in about 4 seconds. With the level set at a higher or a stronger signal, normal levels will be restored after approximately 6 seconds. The VIP circuit has an intentionally slow release time which prevents interruptions when a speaker pauses for thought or effect. Care should be taken to avoid the VIP triggering on sound from the main speakers. At high settings, the microphone may “hear” the main system speakers and trigger a reduction in level. **When not using the VIP feature, be sure to turn the control completely counterclockwise.**

**L. EQ** – Adjusts the amount of frequency increase or decrease in the channel. Rotating the knob counterclockwise increases the bass or low frequency response while simultaneously decreasing the treble or high frequency response. Likewise, rotating the knob clockwise increases the treble or high frequency response while simultaneously decreasing the bass or low frequency response. When the tone controls are set at their notched or straight up position, the channel response is “flat” with no frequencies increased or decreased. To set the EQ, start with this control in the 12 o’clock (notched) position. Simply turn the control until things sound good!

**M. REV/AUX** – Adjusts the amount of signal sent to the Reverb processor, and to the Rev/Aux output jack. Reverb can be used to enhance the sound quality of any

performance where appropriate and desired. In the full left position there is no level sent to the reverb processor or Rev/Aux jack. Care should be taken to set the Reverb return master control to a middle position or above, before adjusting levels from the individual channels. When the reverb/auxiliary mix is set, overall levels of reverb can be adjusted at the master control.

Keep in mind that while Reverb or effects can enhance a musical performance or presentation. Too much reverb can make the same performance or presentation unintelligible or “muffled”. Keep your audience in mind when setting reverb levels.

**N. PAN** – The Pan control features a notched position indicator and adjusts the perceived “position” of the mono signal from the input within the stereo field created by the two speaker cabinets. Full Left or Right rotation of this control sends the signal to the that channel only, with no signal sent to the other. The center position sends the

## STEREO CONTROL FUNCTIONS

same amount of signal to both speakers.



**J. STEREO INPUT LEVEL** – Adjusts the volume level of the stereo input channel. Rotating the knob clockwise increases the stereo input channel’s contribution to the “Main Out” mix, while rotating it counterclockwise decreases the volume. Adjust this control after the Passport’s master output level volume has been set.

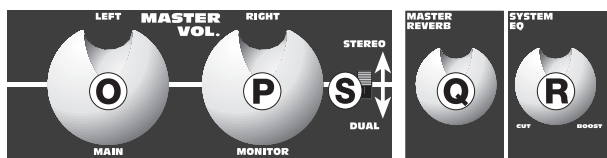
**L. EQ LOW** – Adjusts the relative level of the low frequency content for the stereo channel. Rotating the knob counterclockwise decreases the bass or low frequency response. Likewise, rotating the knob clockwise increases the bass or low frequency response.

**L. EQ HI** – Adjusts the relative level of the high frequency content. Rotating the knob counterclockwise decreases the treble or high frequency response. Likewise, rotating the knob clockwise increases the treble or high frequency response. When the EQ controls are set at their notched or straight up position, the channel frequency response is “flat” with no frequencies increased or decreased.

**M. REV/AUX** – Adjusts the amount of signal sent to the internal Reverb processor, and to the Rev/Aux output jack. In the full left position the control is effectively off. Care should be taken to set the Reverb return master control to a middle position or above, before adjusting levels from the individual channels. When the reverb/auxiliary mix is set, overall levels of reverb can be adjusted at the master control.

**N. BAL** – The balance control features a notched position indicator and adjusts the perceived “position” of the mono signal from the input within the stereo field created by the two speakers. Full Left or Right rotation of this control sends the signal to the that channel only, with no signal sent to the other. The center position sends the same amount of signal to both speakers.

**MASTER CONTROL FUNCTIONS**



**O & P. MASTER VOLUME LEVEL CONTROLS** – The Left and Right Master Volume Controls adjust the output volume of the PD-250. The Master controls feature notched position indicators. For the majority of applications the Passport system has been balanced to operate with these controls at their notched 12 o’clock positions. In situations where more volume is required the master controls can provide an additional 6 dB of gain when turned to the right of the center position.

Set the system up in the normal manner and adjust levels as necessary. Raise the master volume controls beyond their 12 o’clock positions only after increasing the individual channel level controls.

Passport’s internal amplifiers have on-board processing designed to optimize the system’s performance when used with the custom designed PD-250 speakers.

**S. STEREO/ DUAL SELECTOR SWITCH** – Allows the PD-250’s power amps to be configured as stereo or “dual-mono”. In the Stereo mode, the system operates as a traditional stereo power mixer/ amplifier. In the Dual mode, the channel level controls set the level for the Main mix (LEFT master volume control). The Rev/Aux controls set the individual channel levels for the Monitor (RIGHT master volume control).

When the Dual mode position is selected with the switch, the Pan and Balance controls become inoperative (you have selected a mono setting for the output). Additionally, the internal reverb is only sent to the MAIN speaker output. Reverb is not available to the MONITOR speaker output. The reverb level sends for the MAIN mix are also controlled from the channel REV/AUX channel controls.

The overall reverb level to the MAIN mix is controlled by the Reverb Master Control.

**Q. MASTER REVERB** – Adjusts the amount of reverb signal level sent to the mix or output. Rotating the knob clockwise increases the reverb signal sent to the main mix. When the knob is in its full counterclockwise position, there is no reverb heard in the mix.

**R. SYSTEM EQ** – Adjusts the overall amount of frequency increase or decrease on the Passport. Rotating the knob counterclockwise increases the bass frequency response while simultaneously decreasing the high frequency response. Likewise, rotating the knob clockwise increases the high frequency response while simultaneously decreasing the bass frequency response. When the system EQ control is set at its notched or straight up position, the channel response is “flat” with no frequencies increased or decreased. To set the System EQ, start with this control in the 12 o’clock (flat) position. Simply turn the control until things sound good!

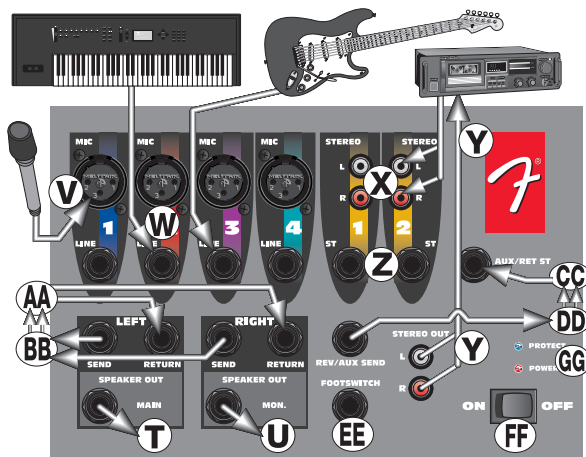
You will notice that the input jacks and channel controls are color coded. This is done to easily identify which set of controls is associated with which input connections.

**MIC / LINE / STEREO INPUTS**



**V. MIC INPUT JACK** – Plug your microphone in here. This three pin XLR balanced female input connector is intended for input signals from low impedance microphones.

**W. LINE INPUT JACK** – Plug your instrument in here. This 1/4 inch balanced input jack suited for use with items having a line level output such as high impedance microphones, keyboards, drum machines, outboard effects, etc. It accepts both balanced and unbalanced cables.



**X & Z. STEREO INPUTS** – Stereo phono (RCA) input jacks and 1/4" TRS jacks (wired for Tip=Left and Sleeve=Ground, the standard format of commercially available cables) designed for use with a tape player, CD player, or any other stereo source. Use these jacks for connecting the output of a computer sound card or other similar device to your Passport. Adapters that convert an 1/8" male plug to RCA male phono plugs are readily available at electronics stores. Note: These connectors are set at a constant "line level".

**Y. STEREO OUT** – The Tape Out RCA jacks provide a mix output that is independent of the Master Level Controls. Connect these to the inputs of a recording device, such as a cassette or DAT recorder, to record your event. Changes made during the performance, to the input level controls, channel EQ, and reverb controls will be heard in the Tape Out mix. Changes made to the master level controls will not effect the level of the recording. Adjust recording levels according to the instructions on your recording device.

### AUX AND FOOTSWITCH JACKS

**DD. REV/ AUX SEND** – Plug your external effects signal processor in here. Although the Passport is already equipped with on-board digital reverb, an external effects signal processor can be incorporated into the Passport's signal flow. This 1/4 inch output jack is designed to feed the Passport's effects bus signal to an external signal processing device, such as a digital delay or a chorus.

**CC. AUX RETURN** – Plug your external effects signal processor's output signal in here. This 1/4 inch input stereo jack is designed to accept signals from an external processing device, such as a digital delay or a chorus unit. This input can also be used as a stereo input with the volume controlled at the master volume knobs.

**EE. FOOT SWITCH** – The Footswitch connector allows the internal reverb return to be muted, or shut off, through the use of a simple foot operated switch (Fender part number 099-4052-000). The footswitch should be wired to connect the tip to the sleeve to turn the reverb off, and requires a standard speaker or instrument cable.

**AA & BB. – AMPLIFIER SEND/ RETURN JACKS** – Each channel of the amplifier has a Send and Return jack. These jacks provide a point to patch in an equalizer, or other processor into the sound system. The signal at the send jack is located after the mixer section and before the power amplifier. The send jack should be connected to the input of the external device. The return jack is a patch point that enters into the power amplifiers. The return jack should be connected to the output of the external device.

**T & U. SPEAKER OUTPUTS** – These are speaker level (powered) output jacks designed to feed each of your Passport speaker enclosures. Use the enclosed cables (or other speaker cable) to connect the Passport's speakers to the power tower.

**FF. POWER SWITCH** – Turns the AC power ON and OFF. When the switch is in the OFF position, your Passport is completely shut down.

### REAR PANEL

**AC CONNECTOR/ LINE CORD** – The Passport is equipped with a grounding type IEC supply cord to reduce the possibility of shock hazard. Be sure to connect it to a grounded AC receptacle. **DO NOT ALTER THE AC PLUG.**



The power mains (AC) fuse and fuse holder are under the IEC (power cord) socket. Replacement fuses must be of the same rating (6.3A, 250V) and size as originally equipped. To replace a blown fuse, remove the IEC power cord. Pull out the fuse holder and find the spare fuse inside.

Your Passport system is capable of running on battery power. The off-white plastic connector on the rear of your Passport is the DC power input connector for connecting the Passport DC-DC converter. The converter is then connected to a battery. Available accessories include the Passport DC-DC converter (Fender part number 069-1002-000) and 12 volt battery pack (Fender part number 069-9003-000).



## REAR STORAGE COMPARTMENT

A small storage compartment can be found on the rear of the Passport tower. To access this compartment, simply lift the latch and pull open the storage door. This compartment is ideal for storing cables, microphones or other items when you are transporting your Passport.

On the back panel of the storage compartment you will see a narrow metal strip with a screw on either end. This is the protective cover for the wireless adapter terminal. Custom wireless systems are available for your Passport. The receiver for the wireless system installs in the storage compartment.

## SET-UP AND CONNECTIONS

Before turning on the Power, read and heed the safety warnings on page 2.

It is wise to establish a routine for connecting and powering up your sound system. Provided you have a properly grounded AC outlet or outlet strip with sufficient power handling capacity, plug all sound system equipment into the same outlet or strip. This will enhance system safety and performance. Take care that the AC circuit is capable of handling the peak power demands of your system. Consult the product handbooks or a qualified electrician if in doubt.

When setting up, be sure to follow these simple set-up guidelines:

1. First, turn all channel Level, VIP (channel 1 ONLY) and Rev/Aux controls to their full counterclockwise (OFF) positions. Next, place all EQ, Pan and Master controls at 12 o'clock in their center notched positions. Be sure to set the appropriate input (mic/line switch position) for the source you are setting up.
2. Next, connect each speaker cable to the appropriate Left & Right Speaker outputs on the rear tower and on each speaker front panel with the enclosed cables.
3. Connect all sources such as microphones, tape decks, keyboards etc., into the appropriate inputs.
4. Finally, check the local voltage and set the voltage selector switch located adjacent to the power input socket on the rear of the mixer/amplifier to the appropriate operating range. (See Safety Precautions on page 2.) Plug the power cable into the IEC (power cord) socket on the rear of the Passport Tower and connect the other end to a properly grounded 3 wire AC power outlet.

## POWERING UP

Turn the Power Switch to the ON position. The Power LED will illuminate green and the system will turn on. If other powered equipment is to be attached to the system, it is always advisable to turn on your Passport last. In this way any transient spikes and thumps caused by other equipment will not be amplified and sent to your system speakers. For the same reasons it is advisable to turn off your Passport system first before turning off the attached equipment.

Should the Power LED not illuminate when the rear panel power switch is operated, check your power connections and retry. Should the Power LED still fail to illuminate after you have confirmed the power connections, disconnect all cables and check the Passport fuses. Be sure to replace any blown fuses with fuses of the correct value. Reconnect the power and speaker cables and turn the rear panel power switch on.

Re-set the system by turning on the power switch. If the Power LED illuminates red, the system is indicating a thermal protect mode or cooling problem. Be sure to check the air inlet filter at the base of the unit by removing it and making sure it is clear of debris.

Turn power off and wait for a few minutes allowing heat to dissipate and the Passport to reset itself. If after doing so the Power LED continues to glow red this indicates a fault with your system and you should consult an authorized Fender service center.

If no audio is present in one of the speakers, check to see if your control settings are correct. Next, unplug the cable from your working speaker and reconnect it to the other speaker. If the second speaker now works, this indicates that the first cable is bad, and should be repaired or replaced.

## SET-UP SYSTEM VOLUME AND LEVELS

To set system volume and operating levels, be sure to follow these simple set-up guidelines:

1. First, slowly raise the large Left and Right Master volume controls to their 12 o'clock notched positions.
2. Use a microphone (or other source) in the same position as it will be used on stage and in the manner in which it will be used for the event. Slowly bring up the appropriate channel input level control listening for the onset of feedback or howling or until the required level is reached. Have a helper "walk" the audience area to make sure coverage and levels are sufficient for your needs. The system's overall volume can be raised simply by rotating the Left and Right Master volume controls to the desired level.

3. Consider the application and needs of the event and set the System EQ control as appropriate. This is best achieved by playing recorded material of the same type as your show program, or by having an assistant speak into the microphone while you listen in the audience area.

For public address (spoken voice), it is advisable to rotate the System EQ control clockwise to enhance the mid and high frequencies, and limit the low frequency content. For large outdoor spaces this will also give the maximum headroom and output capability. Carefully consider the individual event's needs and set your control for the maximum effect.

### POWER TOWER™

In setting up the system, the Passport Mixing console should ideally be placed where system performance can be evaluated by the operator. If no ongoing adjustments will be necessary, the mixer may be placed conveniently and where the cable lengths allow.

Take care to place the Power Tower where the cables will not trip anyone. All cables should be carefully secured.

The storage compartment in the rear of the Tower can hold cables, microphones and other system parts. To open simply slide the catch upwards and pull open.

The mains (AC) fuse holder is under the IEC (power cord) socket on the right rear of the Tower. To change a fuse, remove the IEC plug and, using an appropriate tool pull out the fuse holder. Note there is a spare fuse in the fuse holder; the Passport utilizes a T6.3A 250V fuse. Only replace fuses with one of an identical value and size.

The Passport System is weather resistant in its packed- transport mode. However, when operating outdoors, take care to fully protect the Power Tower in the event of exposure to rain.

**Remember to allow free air flow through the front air inlet located at the bottom of the front panel on the Passport power tower.**

## SPECIFICATIONS

### Part Number

069-2001-0X3

### Frequency Response

20 Hz to 40 kHz  $\pm$  1 dB (at send output)  
30 Hz to 30 kHz  $\pm$  1 dB (at speaker output, with processor threshold exceeded)

### Distortion

< 0.05%, 20 Hz to 20 kHz, 1 dB below rated output

### System Signal to Noise Ratio

> 80 dB @ 1 w, "A" WTD

### Power Output

125 W/ch continuous average power, 8ohm, both channels driven with THD < 1%

### Input Impedance (Channels 1-2-3 XLR and 1/4")

"Mic" switch position: 2 k ohm  
"Line" switch position: 66 k ohm

### Input Impedance (Phono and Stereo Channel 1/4")

78 k ohm

### Max. Input Level

Mic: -7 dBu  
Line: 30 dBu  
Stereo: 26 dBu

### Return Input Impedance

47 k ohm

### Fuse type

T6.3A, 250 V

### Passport System

Width: 840 mm (33.7 in.)  
Height: 615 mm (24.2 in.)  
Depth: 300 mm (11.8 in.)  
Weight: 24 kgs (53 lbs)

### Speakers

Width: 340 mm (13.4 in.)  
Height: 610 mm (24.2 in.)  
Depth: 300 mm (11.8 in.)  
Weight: 6.8 kgs (15 lbs)

### Power Tower

Width 185 mm (7.3 in.)  
Height 615 mm (24.2 in.)  
Depth 300 mm (11.8 in.)  
Weight 10.5 kgs (23 lbs)

### Tower Footprint

350 x 300 mm (13.8 x 11.8 in.)

### Microphone

Dynamic Cardioid, balanced

### Microphone Cable

XL -Male to XL-Female, 6 m (20 feet)

### Speaker Cables

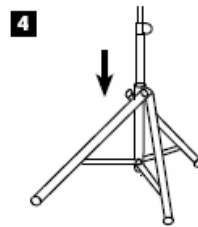
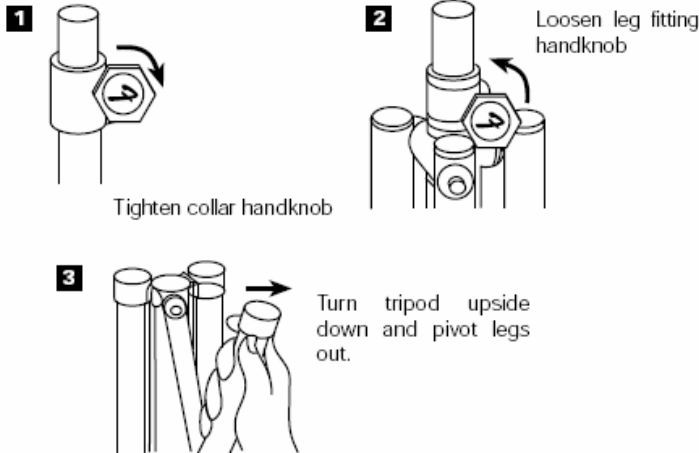
1/4 in. to 1/4 in., 9 m (30 feet)  
0 dBu is referenced to 0.775 volts rms

## YOUR FENDER® PASSPORT TRIPOD SPEAKER STAND

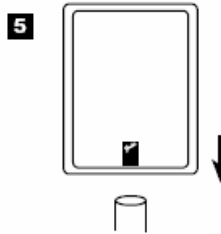
The Passport tripod speaker stand is constructed from rugged anodized aluminum alloy tubing and is specially designed to support the Passport loudspeaker enclosures. Because loudspeaker enclosures placed on the Passport tripod speaker stand could be damaged or cause bodily harm if they fall, please read through these instructions and heed all caution and safety warnings.

### IMPORTANT

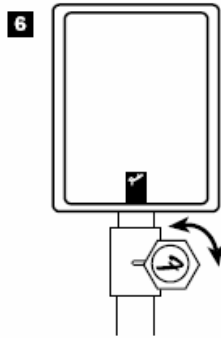
When setting up your Passport tripod speaker stand, make sure it is placed on a dry, flat and secure surface. Also, when placing, raising or lowering gear on the Passport tripod speaker stand, it is recommended that at least two people undertake these procedures. **THE FENDER PASSPORT TRIPOD SPEAKER STAND IS DESIGNED FOR USE WITH PASSPORT OR OTHER LIGHTWEIGHT LOUDSPEAKER ENCLOSURES. THIS STAND IS NOT RECOMMENDED FOR LOUDSPEAKERS WEIGHING IN EXCESS OF 35 lbs. (15.9 kg).**



Turn tripod upright and slide leg fitting to adjust the width of the leg spread until the center pole is approximately 1/4" (64 mm) from the floor. This will ensure the Passport tripod speaker stand is at its maximum footprint (Using a smaller footprint will adversely affect the stability of the unit). Tighten the handknob.



Place your speaker on the stand. Remember to secure all wires coming from the Passport tripod speaker stand for reasons of both safety and good presentation (loose wires can be tripped on and give a cluttered, unprofessional appearance).



Loosen collar handknob and raise equipment to the desired height. **Do not extend the center pole more than 36" (91.4 cm) above the locking collar support.** Re-tighten handknob and check the stability of the unit at the desired height setting.

### REMEMBER ...

Check to ensure that all handknobs are secure when supporting equipment.

Always loosen handknobs with caution.

Clean your Passport tripod speaker stand Tripod using a damp cloth or any non-abrasive cleaner.

Make sure that speakers are securely mounted on the stand. **Use ONLY loudspeaker enclosures weighing less than 35 lbs. (15.9 kg) with this unit.**



Thank you for selecting the Fender Passport Wireless System. Before installing or operating this system please read this instruction manual thoroughly and familiarize yourself with the system components and correct operating procedures.

## **What is covered in this manual**

Descriptions, installation and usage for the Passport Wireless Handheld System, Passport Wireless Executive System and Passport Docking Receiver are covered in this manual.

## **Overview**

The Fender Passport Wireless Systems are unique, extremely simple, yet effective systems, which provide high quality, reliable wireless microphone operation.

The Fender Passport Wireless System combines high technology design with the latest construction methods and high quality components for superior performance in all applications. Fender's fifty-plus years of experience in building professional instruments gives us a clear understanding of the importance of reliable and consistent operation show after show. Your choice of this high quality system will result in years of reliable service.

## **Design Notes**

In keeping with the principles of ease of use and reliability, the Passport Wireless System accessories for the Passport family of products is designed to require little or no additional operations or adjustments before each use. In fact these wireless systems require less set-up than even the normal wired microphone! Once installed, the only requirement of the operator is to make sure the microphone/ transmitter is fitted with a fresh battery.

## **Systems**

### ***The Passport Wireless Handheld System***

Contains a handheld wireless microphone (transmitter) and custom-designed docking receiver.

### ***The Passport Wireless Executive System***

Contains a belt-pack transmitter, a lavalier microphone, a headset microphone, an instrument cable, and a custom designed docking receiver.

*An additional transmitter may be purchased separately to compliment either system. Make sure to order any additional transmitters in the correct frequency. Consult your Fender dealer for details and options.*

## **Wireless Components**

### ***Transmitters***

#### **Handheld Microphone (Handheld System)**

The Fender Handheld microphone and transmitter is a high quality microphone combined in a compact and lightweight package. The microphone element is a professional, electret-condenser type with very low handling noise, excellent frequency response and cardioid pattern characteristics.

The Handheld microphone uses a 9v battery in the lower battery housing. To replace, simply remove the bottom section by twisting counter clockwise. Note the plus and minus signs and make sure to insert the battery in the correct direction and orientation. Take care to not cross threads in the housing when replacing.

An ON/OFF switch is the only control on the unit. When the switch is moved to the ON position the LED indicator should momentarily flash red. If the LED stays on, the battery level is too low for normal operation.

## **Belt Pack Transmitter Unit (Executive System)**

The Belt Pack transmitter has a 4-pin input connector for use with the interchangeable microphones and instrument cable. The microphone and instrument cables have a miniature jack plug. These have threaded collars to assure secure attachment to the transmitter. When attaching an input source, make sure to insert its jack plug, then turn clockwise to lock into place.

Located on the front panel is an on/off switch and battery low indicator. The Power LED will flash briefly upon turn-on when the battery is in good condition. When the LED is on continuously, the battery level is too low for normal operation.

On the side of the transmitter are level controls. A level switch provides two input level settings – GT (electric guitar) and MT (microphone). When in the MT position, the Gain control adjusts the input gain for the microphone. The gain is fixed (and the gain control is inoperative) when in the GT position.

The transmitter uses one 9-volt alkaline battery, with the battery compartment accessed on the lower right side. Take care to place the battery into its housing in the correct direction. Look carefully at the battery and identify the plus or positive terminal.

### **Lavalier Microphone**

For general purpose public speaking a lavalier microphone, sometimes known as a lapel microphone, can be very effective. One advantage of this type of microphone is its relative invisibility. The microphone element is an electret-condenser type.

### **Headset Microphone**

This microphone is essentially of the same type as the lavalier microphone. Fender's design features a number of advantages for entertainment and presentation applications. The Fender headset system can be worn securely and comfortably even when used by physically active performers or instructors. It is designed to go underneath and around the hairline at the back of the neck and fix lightly but securely to the ears of the user.

The headset assembly has a number of adjustments. The neckband is adjustable for size and fit. The pivot arm tension and length can be adjusted. Do not adjust the arm without loosening the screws slightly.

### **Instrument Cable**

The instrument cable allows virtually noise-free, high quality wireless transmission of instruments or line level sources. The cable simply plugs directly into the source instrument and the transmitter.

## **Receiver**

### **Custom Docking Receiver**

The wireless receiver is built into the "docking" unit that mounts inside Passport's storage compartment. All power, audio and antenna connections are built into the docking receiver.

When you install the docking receiver, audio connections are automatically made to input channel one of the Passport. In other words, input channel one is now dedicated to the Wireless System. The Wireless Systems come with "blanking plugs" (install in the XLR and ¼" jacks for channel one) intended as a reminder that this input is in use.

### **Docking Receiver Indicators**

The Passport docking receiver receives power from the Passport. When the Passport main power switch is on (\*), the red "Power" LED on the Wireless docking receiver will illuminate.

*\* For DC operation only: The Passport front panel ON/OFF switch is not operational when used with a DC-DC converter. The Passport is turned on and off via the DC Converter On/Off switch. The Wireless Module power LED (red) will illuminate as normal.*

The "Signal Present" Green LED on the docking receiver will illuminate when the transmitter is turned "on"- showing the receiver is "seeing" a signal from your transmitter.

### **Tone Key**

With the Passport Wireless System, the transmitter and receiver are locked to a specific tone key frequency that is carried "invisibly" with the signal from the transmitter. If the receiver loses this tone key, it soft-mutes the output of the receiver. In this way, should for example, the battery run low in your transmitter, and its transmission is interrupted, no annoying noises or spurious signals will be fed to the system.

A second advantage to this tone key system is that the transmitter can be turned on and off without having to turn off the receiver – or mute its channel on the Passport.

# Setting Up

## ***Unpacking***

Your Passport Wireless System (or accessory) was packed with care at the factory. The shipping carton was designed to protect it during initial shipment. Please retain this carton in the unlikely event that you need to return your Passport Wireless for servicing.

Remove the Docking Receiver and the transmitter (either Handheld or Belt pack) from their respective packaging and check that nothing is missing and/ or damaged from shipping.

Confirm that the Receiver and Transmitter are of the same frequency. If you find the pieces are NOT the same frequency please contact the dealer where you purchased the item(s).

## ***Pre-Installation***

The Passport Wireless Systems and accessories are custom designed to work with “wireless ready” Passport Sound Systems. “Wireless Ready” Passport Sound Systems have a “docking connector” in their rear storage compartment. This is very easy to identify as “non-wireless ready” Passports have nothing in their storage compartments.

If you have purchased a wireless system and find you’re Passport does not have the “wireless ready” feature, please contact your Authorized Fender Pro Audio dealer or our Customer Service department for information and availability of a “wireless retro-fit kit”. This kit will need to be installed by an Authorized Fender Pro Audio Service Center.

## ***Safety Precautions***

Warning: To avoid the risk of shock or fire, do not expose this unit to moisture. Do not attempt to disassemble or alter any circuitry. There are no user-serviceable parts inside. Refer all servicing to an Authorized Fender Pro Audio qualified service personnel.

## ***Installation***

### **Custom Docking Receiver**

#### **Disconnect power cable!**

Identify the Docking Receiver module and familiarize yourself with the unit, noting the two locking screws and multi-pin connector.

Place your Passport power tower facedown on a level and stable surface. Open the storage compartment door and identify the docking connector on the rear wall of the storage compartment.

Locate the two small screws attaching the protective cover over the docking connector. Loosen these screws just enough to allow the cover to be removed from the connector. Gently re-tighten the two screws.

Holding the Docking Receiver with the logo in an upright position, place the male, multi-pin connector into engagement with the female connector on the Passport storage compartment rear wall. When properly aligned, gently (but firmly) push the unit until it engages fully. Using the two screws on the sides of the module, attach the module to the Passport. Do not over-tighten.

Identify the two “blanking plugs” and install these into the channel one, XLR and 1/4” connectors.

### **Transmitter (Handheld and belt pack)**

Identify the battery compartment on the transmitter and install a fresh 9V Alkaline Battery. If using the belt pack transmitter, select a microphone or cable to use and attach to the transmitter.

You have now completed the installation, and all that remains is to confirm the proper operation of your system.

## Operation

Once installed, the wireless system is automatically input to channel one of the Passport. The Wireless Systems come with “blanking plugs” (install in the XLR and ¼” jacks for channel one) intended as a reminder that this input is in use.

Set-up your Passport system as you would for normal use. Confirm operation of the system with a CD or wired microphone source.

Make sure the input one level control is turned to its minimum setting. (fully counter-clockwise).

Turn the Passport main power on, open the storage compartment and confirm that the Red “Power” LED on the wireless-docking receiver is illuminated.

Turn on the handheld or belt pack transmitter. The Green LED on the docking receiver will illuminate - showing the receiver is “seeing” a radio frequency carrier signal from your transmitter.

While using the microphone at a normal level, slowly bring up the input level control for channel one. You should be hearing yourself in a clear and natural tone much the same as the wired microphone with which you checked the system. Adjust the EQ control to your requirements.

**Note:** The front panel Mic/Line switch does not effect the level sensitivity for Wireless operation. Fender has “normalized” the docking receiver’s output to the system-input section. No additional adjustments are required of the operator.

Congratulations you have successfully set-up the wireless system!

From this point onwards, you should need only to change batteries in your transmitter for continued operation.

If your wireless system fails to work properly, consult your authorized Fender Service Center.

## Frequencies

Passport Wireless Systems are available in a number of frequencies. The last three digits of the part number indicate the frequency of your system (or component). If ordering an additional component for your existing system, be sure to order the component with the same frequency. The frequencies and three digit numbers are identical for all Passport Wireless Accessories.

The most popular wireless frequencies are the Travel Frequencies. As their name implies, travel frequencies are “open channels” in all areas of North America.

Wireless systems broadcast in the same way as radio and television stations broadcast (only a much weaker signal). It is easy to see why a wireless system could pick up interference from a local television station broadcasting on the same frequency. You will notice that all frequencies except “travel” frequencies have television channels associated with them. When selecting a wireless frequency, choose one that is a television channel NOT broadcast in your area (or the area where you will most typically use your Passport). Cable channels should not affect the performance of your wireless.

The following list shows the available frequencies and their associated part numbers for Passport Wireless Systems.

<b>Part Number:</b>	<b>Channel</b>	<b>Frequency</b>
069-xxxx-001	Travel A	169.505 MHz
069-xxxx-002	Travel B	171.905 MHz
069-xxxx-004	Channel 7	174.8 MHz
069-xxxx-005	Channel 11	202.4 MHz
069-xxxx-006	Channel 12	206.4 MHz
069-xxxx-007	Channel 10	195.4 MHz
069-xxxx-008	Channel 13	208.2 MHz



## Wireless System Specifications

Carrier	VHF 160-250MHz specific freq. Only
Oscillation Mode	Quartz-Controlled
Channel	Single
Receiving Mode	Non-Diversity
Dynamic Range	>100dB
Squelch	Tone Key squelch controlled circuitry
S/N Ratio	>100dB
T.H.D.	< 0.5%
Freq. Response	50Hz-18kHz +/-3dB

Product Specifications are subject to change without notice.

Please visit [www.fenderaudio.com](http://www.fenderaudio.com) and [www.fender.com](http://www.fender.com)



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