
FWG 1010

UHF Wireless System™



OWNER'S MANUAL — p. 1
MANUAL DE INSTRUCCIONES — p. 6
MODE D'EMPLOI — p. 11
MANUAL DO PROPRIETÁRIO — p. 16
MANUALE UTENTE — p. 21
BEDIENUNGSHANDBUCH — S. 26

Fender®
www.fender.com

ENGLISH

ESPAÑOL

FRANÇAIS

PORTUGUÊS

ITALIANO

DEUTSCH

Symbols Used



The lightning flash with arrow point in an equilateral triangle means that there are dangerous voltages present within the unit.



The exclamation point in an equilateral triangle on the equipment indicates that it is necessary for the user to refer to the User Manual. In the User Manual, this symbol marks instructions that the user must follow to ensure safe operation of the equipment.

Safety and Environment



Safety

- Do not spill any liquids on the equipment.
- Do not place any containers containing liquid on the device or the power pack.
- The equipment may be used in dry rooms only.
- The equipment must only be opened, serviced, and repaired by authorised personnel. The equipment contains no user-serviceable parts.
- Before connecting the equipment to power, check that the AC mains voltage stated on the supplied AC adapter is identical to the AC mains voltage available where you will use the equipment.
- Only operate the equipment with the supplied AC adapter with a 12-VDC output. Using adapters with a different output voltage or current type may cause serious damage to the unit.
- If any solid object or liquid should get into the equipment, shut down the system immediately. Disconnect the AC adapter from the power outlet at once and have the equipment checked by our customer service department.
- If the equipment is not going to be used for a long time, disconnect the AC adapter from the power outlet. Please note that if you turn the equipment off while leaving the AC adapter plugged in, it is not fully isolated from the power supply.
- Do not place the equipment near heat sources such as radiators, heating ducts, amplifiers, etc. and do not expose it to direct sunlight, excessive dust, moisture, rain, mechanical vibrations, or shock.
- To avoid hum or interference, route all audio lines, particularly those connected to the microphone inputs, away from power lines of any type. If you use cable ducts, be sure to use separate ducts for the audio lines.
- Clean the equipment with a moistened (not wet) cloth only. Be sure to disconnect the AC adapter from the power outlet before cleaning the equipment. Never use caustic or scouring cleaners or cleaning products containing alcohol or solvents since these may damage the enamel and plastic parts.
- Only use the equipment for the applications described in this manual. Fender cannot accept any liability for damages resulting from improper handling or misuse.



Environment

- The power supply unit consumes a small amount of electricity even when the unit is switched off. To save energy, unplug the power supply unit from the socket if you are not going to be using the unit for some time.
- The packaging is recyclable. Dispose of the packaging in an appropriate recycling collection system.
- If you scrap the unit, separate the case, electronics and cables and dispose of all the components in accordance with the appropriate waste disposal regulations.

FCC STATEMENT

The transmitter has been tested and found to comply with the limits for a low-power auxiliary station pursuant to Part 74 of the FCC Rules. The receiver has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded cables and I/O cords must be used for this equipment to comply with the relevant FCC regulations. Changes or modifications not expressly approved in writing by FMIC may void the user's authority to operate this equipment.

The receiver complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

USA only: FCC CONSUMER ALERT

Most users do not need a license to operate this wireless system. Nevertheless, operating this system without a license is subject to certain restrictions: the system may not cause harmful interference; it must operate at a low power level (not in excess of 50 milliwatts); and it has no protection from interference received from any other device.

Purchasers should also be aware that the FCC is currently evaluating use of wireless systems, and these rules are subject to change. For more information, call the FCC at 1-888- CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's website at www.fcc.gov/cgb/wirelessmicrophones.

1. GENERAL

Introduction

... for purchasing a Fender product. This manual contains important instructions for setting up and operating your equipment. Please take a few minutes to read the instructions below carefully before operating the equipment. Please keep the manual for future reference. We hope you enjoy using your system!

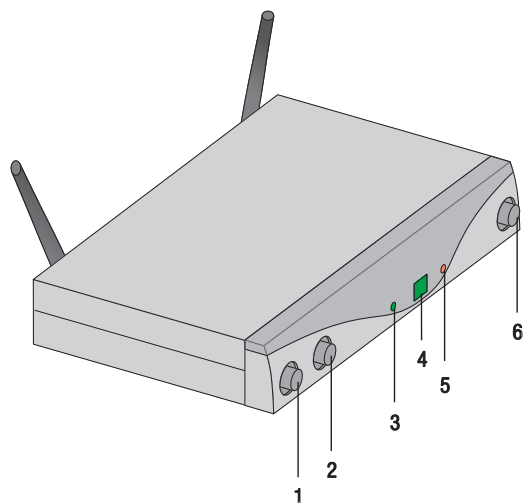
Accessories/Parts

Part Number	Item
7704710000	PASSIVE DIRECTIONAL ANTENNA
7744711000	ACTIVE DIRECTIONAL ANTENNA
7704712000	PASSIVE WD-BND OMNIDIRECTIONAL ANTENNA
7704713000	ACTIVE WD-BND OMNIDIRECTIONAL ANTENNA
7704714000	POWER SW SUPPLY 12V 500 MA MULTIPLUG
7704715000	BODY PACK TRANSMITTER CHARGING STATION
7704721000	PT 1010 WIRELESS BODY PACK TRANSMITTER
7704717000	FMKPS ANTENNA CABLE 2 FT 65 CM
7704718000	FMKA5 ANTENNA CABLE 16 FT 5 M
7704719000	FMKA20 ANTENNA CABLE 66 FT 20 M
7704720000	FRONT MOUNT ANTENNA RACKMOUNT KIT

Receiver

The SR1010 is a stationary receiver for all channels of the FWG1010 system. The SR1010 operates in a switching bandwidth of up to 30 MHz in the UHF carrier frequency range from 530.025 MHz to 931.850 MHz and can be switched to up to eight different carrier frequencies.

Front Panel

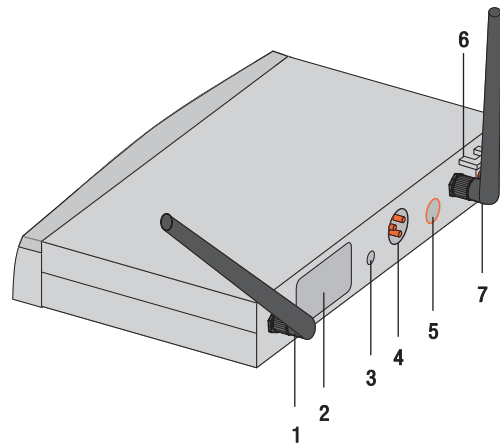


- 1 ON/OFF:** Switches power to the unit on or off.
- 2 VOLUME:** This rotary control allows continuous adjustment of the audio output level.
- 3 RF OK:** This LED lights up to indicate that signal is being received. If no signal is received or the automatic squelch is on, the RF OK LED

goes out and the audio output is muted.

- 4 Display:** Shows the selected receiving channel.
- 5 CLIP:** This LED lights up if the audio level is too high.
- 6 CHANNEL:** This button allows you to select one of up to 8 different carrier frequencies within the receiver's carrier frequency range.

Rear Panel



- 1 ANTENNA A/B:** BNC jacks for connection of the two supplied UHF antennas or remote antennas (optional).
- 2 Carrier frequency label:** An adhesive label stating the carrier frequency band is affixed on the back of the receiver. The enclosed frequency chart provides further information about the available frequencies.
- 3 SQUELCH:** The squelch function turns the receiver off if the received signal is too weak so that the associated static noise or inherent noise of the receiver are not audible when the transmitter is turned off. Set the SQUELCH control to minimum before turning the receiver on for the first time.
- 4 AUDIO OUT/BALANCED:** Symmetric audio output on 3-pole XLR jack: You can connect the input of a mixer to this output, for example.
- 5 AUDIO OUT/UNBALANCED:** Asymmetric audio output on 6.3 mm mono jack bush. Here you can connect a guitar amplifier, for example.

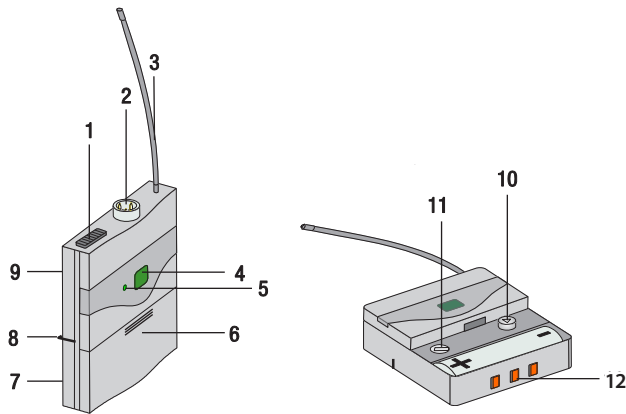
i Using the two output jacks (BALANCED and UNBALANCED) at the same time may lead to level drops and increased noise.

- 6 Strain relief** for the supply cable of the provided AC adaptor.
- 7 DC IN:** Supply socket for connecting the supplied AC adapter.

Pocket Transmitter

You can use the pocket transmitter with an electric guitar, electric bass or keytar. The PT1010 operates within a switching bandwidth of up to 30 MHz in the 530.025 to 931.850 MHz UHF carrier frequency range and offers up to 8 selectable carrier frequencies.

ENGLISH



- 1 ON/OFF switch:** This slider has three positions:
 - Green:** The battery will last for more than one hour, the transmitter is in normal mode.
 - ON:** The transmitter's power supply is turned on.
 - MUTE:** The audio signal emitted by the instrument is muted. The power supply and HF carrier frequency remain activated.
 - OFF:** The transmitter's power supply is turned off.
- 2 Audio input jack:** 3-pole mini XLR jack with contacts for line level. The right contacts are automatically assigned thanks to the connector assignment of the recommended MKG L guitar cable.
- 3 Antenna:** Integrated flexible antenna.
- 4 Display:** Shows the set transmission channel.
- 5 Control LED:** This LED indicates the operational availability of the transmitter.
 - LED is green:** Battery is OK.
 - LED is red:** As soon as the LED changes to red, the remaining battery power allows at most one more hour of operation. We recommend exchanging the batteries as soon as possible.
- 6 Battery compartment cover** with integrated screwdriver.
- 7 Inspection window:** The inspection window allows you at all times to check whether a battery or a rechargeable battery is inserted in the battery compartment.
- 8 Belt clip:** To attach the pocket transmitter to a belt.
- 9 Carrier frequency label:** An adhesive label stating the carrier frequency band is affixed on the back of the transmitter. The enclosed frequency chart provides further information about the available frequencies.
- 10 CHANNEL:** With this button, you can adjust the transmitter to one of up to eight different carrier frequencies within the transmitter's carrier frequency band.
- 11 GAIN:** This control serves to adapt the sensitivity of the audio input to the level of the connected instrument.
- 12 Charging contacts:** The recessed charging contacts allow you to charge a battery using the optional charger without having to remove the battery from the battery compartment. Turn the transmitter off prior to charging.

2. SETTING UP

Positioning the receiver

- Set up the receiver as a free-standing unit.
- Reflections off metal parts, walls, ceilings, etc. or the shadow effects of musicians and other people may weaken or cancel the direct transmitter signal.

For best results, set up the receiver as follows:

- 1) Place the receiver near the performance area (stage). Make sure, though, that the transmitter will never be any closer to the receiver than 10 ft (3 m). Optimum separation is 16 ft (5 m).
- 2) Check that you can see the receiver from where you will be using the transmitter.
- 3) Place the receiver at least 5 ft. (1.5 m) away from any large metal objects, walls, scaffolding, ceilings, etc.

Connecting Antennas

The supplied ¼-wave antennas can be mounted quickly and easily and are suitable for applications where a direct line of sight between the transmitter and the receiver antenna is available and a wireless system has to be set up within a very short time.

Remote Antennas

If reception is less than ideal at the receiver's position, use remote antennas:

- Connect the remote antennas to the BNC sockets on the receiver rear panel.
- Use the BNC extension cable (Front Mount Antenna Rack Mount Kit P/N 7704720000) to mount the ¼-wave antennas on the front panel.
- Use RG58 or RG213 cable to connect the antennas.

Connecting the receiver to a balanced input

- 1) Use an XLR cable to connect the BALANCED output on the back of the receiver to a balanced input (XLR socket) on the mixer or amplifier.
- 2) Turn the VOLUME control on the receiver fully anticlockwise to set the receiver output to mic level.

Connecting the Receiver to Power

- 1) **CAUTION:** Check that the AC mains voltage stated on the included power supply is identical to the AC mains voltage available where you will use your system. Using the power supply with a different AC voltage may cause damage to the unit.
- 2) Plug the feeder cable of the included power supply into the DC IN socket on the receiver.
- 3) Plug the AC adapter into a power outlet.
- 4) Press the ON/OFF switch to switch the receiver on.

Inserting and testing batteries in the transmitter

- 1) Depress the snap hook on the battery compartment cover.
- 2) Pull the battery compartment cover off the transmitter in the direction shown by the arrow.
- 3) Insert the supplied battery into the battery compartment conforming to the polarity marks. The transmitter will not function if you insert the battery the wrong way round.
- 4) To turn the transmitter on, set the on/off switch to "ON". If the battery is in good condition, the status LED will be lit green. If the status LED is lit red, the battery will be flat within about one hour. Replace the battery with a new one as soon as possible. If the status LED is not lit, the battery is flat. Insert a new battery.



If you use a rechargeable battery, the LED will change to red approximately 15 minutes before the battery goes flat.

- 5) To close the battery compartment, slide the battery compartment cover onto the battery compartment from below until the snap hook engages.

Setting the frequency on the receiver

Set the transmitter and receiver to the same frequency:

- 1) Set the desired channel number by pressing CHANNEL. With each press of the button, the channel number increases by one.
- 2) The set channel is indicated on the display and activated immediately.

Setting the frequency on the transmitter

- 1) Switch the receiver on or, if it is already on, press CHANNEL. The selected channel (e.g. 1) blinks for 3 seconds after which it is displayed without blinking, indicating that the selected channel is active.
- 2) During those 3 seconds, press CHANNEL to obtain the required channel number. Each press of the button increases the channel number by one.

- 3) Once you have reached the required channel number, the display blinks for a further 3 seconds after which the channel you have just selected becomes active.

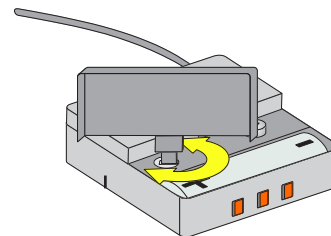
Connecting an instrument

Only use the supplied MKG L instrument cable with the Pocket Transmitter.



Fender cannot guarantee that the pocket transmitter will work perfectly with products from other manufacturers and any damage that may result from such use is not covered by the Fender warranty scheme.

- 1) Remove the battery compartment cover.
- 2) Plug the jack plug on the MKG L guitar cable into the output jack of your instrument and the mini XLR connector on the guitar cable into the audio input socket of the pocket transmitter.
- 3) Turn the pocket transmitter on by setting the on/off switch to "ON".
- 4) Set the SQUELCH control on the receiver to minimum and switch the receiver on.
- 5) Play your instrument.
- 6) Use the screwdriver integrated in the battery compartment cover to set the GAIN control to a position where the CLIP LED on the receiver will flash occasionally.



- 7) Replace the battery compartment cover on the transmitter.

Before the soundcheck

- 1) Move the transmitter around the area where you will use the system to check the area for "dead spots", i.e. places where the field strength seems to drop and reception deteriorates. If you find any dead spots, try to eliminate them by repositioning the receiver. If this does not help, avoid the dead spots.
- 2) If the RF OK LED on the receiver goes out, this means no signal is being received or the squelch is active. Switch the transmitter on, move closer to the receiver or adjust the squelch level to the point where the green RF OK LED lights up.
- 3) If interference noise occurs, adjust the squelch level until the interference noise goes away.



Do not set the squelch level higher than necessary. The higher the squelch level, the lower the sensitivity of the receiver and hence the smaller the range between transmitter and receiver.

Troubleshooting

ENGLISH

PROBLEM	POSSIBLE CAUSE	REMEDY
No sound	<ol style="list-style-type: none"> 1. AC adapter is not connected to receiver and/or power outlet. 2. Receiver is OFF. 3. Receiver is not connected to mixer or amplifier. 4. VOLUME control on receiver is at zero. 5. Instrument is not connected to pocket transmitter. 6. Transmitter has a different frequency range or is tuned to a different frequency from the receiver. 7. Transmitter on/off switch is at "OFF" or "MUTE". 8. Transmitter batteries are not inserted properly. 9. Transmitter batteries are flat. 10. Transmitter is too far away from receiver or squelch level set too high. 11. Obstructions between transmitter and receiver. 12. No line of sight between transmitter and receiver. 13. Receiver is too close to metal objects. 	<ol style="list-style-type: none"> 1. Connect AC adapter to receiver and/or power outlet. 2. Push ON/OFF switch to switch receiver ON. 3. Connect receiver output to mixer or amplifier input. 4. Turn up VOLUME control. 5. Connect instrument to audio input on the pocket transmitter. 6. Use a transmitter with the same frequency range as the receiver or tune both to the same frequency. 7. Set transmitter on/off switch to "ON". 8. Insert batteries conforming to "+" and "-" marks. 9. Replace transmitter batteries. 10. Move closer to receiver or reduce squelch level. 11. Remove obstructions. 12. Avoid spots where you cannot see receiver. 13. Remove interfering objects or move receiver away from them.
Noise, crackling, unwanted signals.	<ol style="list-style-type: none"> 1. Antenna location. 2. Interference from other wireless systems, TV, radio, CB radios, or defective electrical appliances or installations. 	<ol style="list-style-type: none"> 1. Relocate receiver or antennas. 2. Switch off interference sources or defective appliances or tune transmitter and receiver to a different frequency; have electrical installation checked.
Distortion.	<ol style="list-style-type: none"> 1. GAIN control on transmitter is set too high or too low. 2. Interference from other wireless systems, TV, radio, CB radios, or defective electrical appliances or installations. 3. Antenna location. 	<ol style="list-style-type: none"> 1. Decrease or increase GAIN setting just enough to stop the distortion. 2. Switch off interference sources or defective appliances or tune transmitter and receiver to a different frequency; have electrical installation checked. 3. Relocate receiver or antennas. If dead spots persist, mark and avoid them.

Specifications

	RECEIVER	TRANSMITTER
Carrier frequencies	530.025 - 931.850 MHz	530.025 - 931.850 MHz
Switching band width up to	30 MHz (Depends on the used frequency band)	30 MHz (Depends on the used frequency band)
Modulation	FM	FM
Audio transmission bandwidth	40 - 20,000 Hz	40 - 20,000 Hz
Total harmonic distortion at 1 kHz	typ. 0.8%	typ. 0.8%
Signal/S/N ratio	typ. 105 dB(A)	typ. 105 dB(A)
Transmission power	–	10 mW, 50 mW*
Voltage supply	Power supply unit 12 V / 500 mA (or via antenna splitter)	1x 1.5 V battery size AA
Operating time	–	6 - 8 h (Depends on RF power used)
Squelch threshold	-100 to -70 dBm, adjustable	–
Audio output	XLR symmetric and 6.3 mm jack plug asymmetric: Adjustable from microphone to line level. Output level at rated travel: 500 mV eff.	–
Dimensions:	200 x 150 x 45 mm (without antennas)	60 x 74 x 30 mm
Weight:	373 g	60 g



SPANISH SECTION STARTS HERE

ESPAÑOL

PART NUMBERS / REFERENCIAS / RÉFÉRENCE / NÚMERO DAS PEÇAS / NUMERO PARTI / TEILENUMMERN

FWG1010

P/N _____

P/N _____

P/N _____

P/N _____

P/N _____

部件名称 (Part Name)	有毒有害物质或元素 (Hazardous Substances' Name)					
	铅 (PB)	汞 (Hg)	镉 (Cd)	六价铬 (Cr ⁶⁺)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
部分电子元件	X	O	O	O	O	O
部分机器加工金属部件	X	O	O	O	O	O
部分其他附属部件	X	O	O	O	O	O
O: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 规定的现量要求以下 X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 规定的现量要求						

EQUIPO DE AUDIO

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RFC: IMF870506R5A Hecho en China. Servicio de Cliente: 001-8665045875

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