

User Guide

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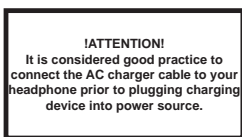
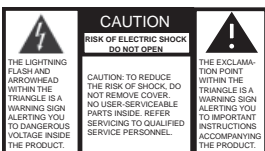
jbl reference series **610**
Bluetooth® wireless headphones for iPod



Important Safety Instructions

Please read the following precautions before use:

- Read these instructions, heed all warnings, and keep for future reference.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings; a minimum distance of 10mm around the entire apparatus is required for sufficient ventilation.
- No naked flame sources such as lighted candles should be placed on or near apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- Apparatus is to be used in moderate climates only.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatuses (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarizing plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or third prong is provided for safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at the plugs and convenience receptacles, and at the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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, or the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). THERE ARE NO USER-SERVICEABLE PARTS INSIDE THIS UNIT. PLEASE REFER SERVICING TO QUALIFIED HARMAN CONSUMER GROUP, INC. SERVICE PERSONNEL.
- Never remove grille covers in order to service the speaker system. The speaker system does not contain any user-serviceable parts.



WARNING: TO PREVENT FIRE OR ELECTRICAL SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: THE APPARATUS SHOULD NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUID, SUCH AS VASES, SHOULD BE PLACED ON THE APPARATUS.

jbl reference series 610

Safety Instructions

Headphone/earphone listening at high volume levels may cause permanent damage to your hearing. Always set the volume control to the lowest level before switching to different sources (tuner, CD player, MP3 player, etc.) or before plugging in the headphones/earphones. For your safety, do not use headphones/earphones while driving or cycling.

Welcome

Thank you for purchasing the JBL Reference Series 610 wireless headphone system. These headphones incorporate 60 years of JBL's professional audio experience and technology, setting a new standard for Bluetooth® wireless headphone systems.

Introduction

JBL is proud to bring you the JBL Reference Series 610 wireless headphone system. This wireless headphone system streams high-fidelity digital sound from your audio device to your headphones. With the included Bluetooth® transmitter attached to your iPod®, you can stream music to your JBL 610 wireless headphones as far as 10 meters away from the music source. With no wires to tangle or restrict your movement, and the volume and track controls conveniently located on the headphones, the JBL Reference Series 610 is both the ultimate in portable audio convenience and the pinnacle of audio quality.

The JBL Reference 610 is compatible with most Bluetooth®-enabled devices, music players, cell phones and laptops. Enabled with Bluetooth® A2DP (Advanced Audio Delivery Protocol) and AVRCP (Audio/Video Remote Control Protocol), the JBL 610 can stream high-quality sound. The JBL Reference Series 610 has raised the bar for high-performance, wireless, portable headphone systems and has earned the right to be a part of the JBL Reference Series family.

Package Contents

1. JBL Reference Series 610 Headphones
2. Carrying Case
3. Bluetooth Transceiver
4. Stereo Phono Adapter
5. Dual Airline Adapter
6. Battery Charger
7. 1.75-Meter Optional Audio Cable

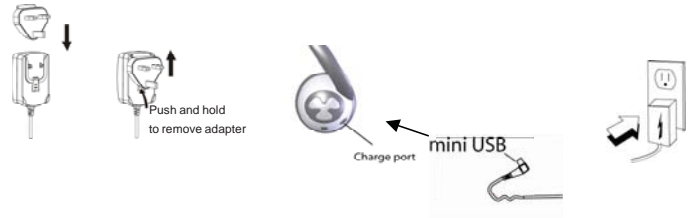


using your jbl reference series 610 wireless headphones

Charging Your Headphones

To optimize your JBL 610 headphone system's performance, the unit must be fully charged prior to operation.

1. Select the proper regional AC adapter plug and assemble onto your battery charger by sliding the plug into the receptacle cavity. (To remove the adapter plug, press the release lever on the charger housing and slide plug in the direction shown.)
2. Connect the mini USB plug on your battery charger to the charge port located on the left ear cup of your headphones.
3. Connect to power outlet and begin charging. Your headphones should reach a complete charge in three (3) hours.

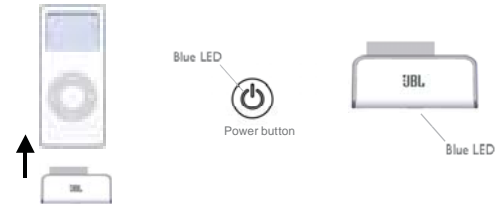


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Starting Up Your Headphones and the Bluetooth Transceiver

The JBL Reference Series 610 is designed for use with iPod generations 4G and above. For your hearing safety, please adjust your iPod volume to the minimum position prior to powering up your headphones.

1. Power "On" your headphones by pressing the power button located on the left ear cup. The blue LED on the headphone will light up (at first solid, followed by three consecutive, quick flashes – indicating that headphones are ready to be "discovered"). Plug in your dongle after headphone system is in discoverable mode. The LED on the mating transceiver will start to blink rapidly, indicating pairing with each other. (To power "Off" headphones, press power button.)
2. Connect the Bluetooth transceiver to the mating Omni connector on the base of your iPod. Connecting the transceiver will automatically power up your iPod.
3. Once the headphones and Bluetooth transceiver are paired and connected, the blue LED on the headphones and the transceiver's LED will blink slowly and intermittently. You are now ready to use your wireless headphone system.
(Note: Pairing of the headphones and transceiver may take up to one minute.)
4. If Bluetooth connection is lost due to moving out of transmission range, move closer to the iPod and press the play/pause button ">". It will re-pair to the Bluetooth transceiver.



Navigating Your Headphone Controls

The navigation controls are all conveniently located on the right ear cup.



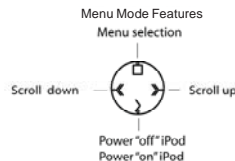
Music Playing Mode

1. The volume "-" and "+" buttons are controlled by pressing to make your selection. Repeated pressing will reduce or increase volume, as desired. If you do not notice a change in the volume, make sure your iPod does not have a low battery.
2. Located on the four-position toggle switch are:
 - (M) "menu" (push once to take you to menu mode)
 - (<<) "previous track" (push once), "fast rewind" (press and hold)
 - (>>) "next track" (push once), "fast forward" (push and hold)
 - (>) "play/pause" (press once to play, once to pause)

Menu Mode

Menu mode brings up a second tier of iPod navigation features, which let you roam through your iPod menus.

1. Push menu button (M) once to take you to the menu mode.
2. To scroll "up" (<<) or "down" (>>) the menu, hold down the proper feature button until you reach your selection.
3. To make a selection from the menu list, push and hold the menu button (M).
4. In the menu mode, pressing and holding play/pause ">" allows you to turn your iPod on or off remotely from your headphones.



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Using Your Headphones With Other Bluetooth Devices

The JBL Reference Series 610 headphones can also be used with other Bluetooth music devices. The Bluetooth product must be enabled with the A2DP (Advanced Audio Distribution Profile). This will allow streaming of music to your headphones. A Bluetooth device with both A2DP and AVRCP (Audio/Video Remote Control Profile) will stream music and allow functionality of the "Music Playing Mode" control features.

1. Make sure headphone power is "Off" and transceiver is disconnected from the iPod.
2. Turn headphone power back "On" and wait for solid LED, then three quick flashes – indicating that the headphone system is in "discoverable" mode.
3. To pair your Bluetooth-enabled device to the headphones, please refer to your user's manual for the proper setup procedure.
4. When your audio device requests a passcode to pair with the JBL Reference Series 610 headphone system, enter the numerical sequence "0000".

Note: The headphone control features may be limited when used with devices other than your iPod, due to the varying designs and possible remote control limitations of your audio device.

Using Your Headphones in Passive Mode

For situations when you are not able to use your Bluetooth wireless mode to stream music, the JBL Reference Series 610 headphones can be connected to your audio device through the included audio cable. Make sure the volume on your audio device is turned to the minimum position, to ensure hearing safety, prior to connecting your headphones.

1. Turn the power "Off" on your headphones.
2. Plug the mini USB connector on your audio cable into the headphone charging port.
3. Plug the 3.5mm mini stereo jack end into the audio device's mating port.
4. The control features buttons will not be functional when the headphone system is used with the audio cable.



troubleshooting your jbl reference series 610

Symptom when used with Bluetooth transceiver	Possible Problem	Solution	Note
Sound Quality			
No sound from headphones.	Headphone system is not powered "On".	Press down power button.	Blue LED should go from solid to three consecutive, fast blinks, indicating that it's ready to be "discovered" by transceiver or other audio source.
	Rechargeable headphone battery is low.	Charge headphones by following the battery charging directions in this User Guide.	If blue LED on headphones continues to blink rapidly after headphone system has paired, it is indicating a low battery. A monotone will also be sounded every 5 seconds for low battery alert.
	Bluetooth transceiver is not receiving power.	Make sure iPod power is on and the transceiver connector is engaged correctly.	Blue LED on transceiver should start blinking.
	iPod battery is low.	Charge your iPod in accordance with the battery charging directions given in your iPod user's guide.	
No sound from headphones.	Headphone has lost the link with the Bluetooth transceiver.	<ol style="list-style-type: none"> 1. Press the play/pause button and the headphone system will re-pair itself with the transceiver. 2. Move back to within Bluetooth connection range. 3. Unplug your transceiver and replug it in to initiate connection. 	Blue LED should start blinking rapidly (indicating pairing). You may have lost the link because you are too far from the iPod. Move closer and try again.
Sound comes from only one side/channel.	Bluetooth transceiver is not connected properly.	Make sure transceiver is connected properly.	
	If using audio cable, connection at mini USB or 3.5mm audio inlet end may not be connected properly.	Make sure connectors are mating correctly to your headphones and audio device.	
Volume is low and will not increase when "+" feature is selected.	The iPod may have a low battery.	Charge iPod according to iPod charging instructions.	
	Your iPod may have a maximum volume setting that is "On".	See whether you have iPod maximum volume setting.	

Symptom when used with Bluetooth transceiver	Possible Problem	Solution	Note
Headphone controls have intermittent operation.	Bluetooth transceiver is not connected properly.	Make sure transceiver is connected properly.	
	May be moving out of Bluetooth range.	Move closer to iPod.	Bluetooth does not have good transmission through metal or water.
	Headphone battery is low.	Charge headphones by following the battery charging directions in this User Guide.	If blue LED on headphones continues to blink rapidly after headphone system has paired, it is indicating a low battery. A monotone will also be sounded every 5 seconds for low battery alert.
	The iPod may have a low battery.	Charge iPod according to iPod charging instructions.	
Sound drops in and out.	Moving out of transmission range.	Move closer to the iPod or change position.	
Distortion (static, crackling or hissing sounds).	Noise may be caused by interference from a monitor, cell phone or other transmitting device.	Turn monitor off to see whether noise is eliminated. Use headphones further away from monitor.	
	If using audio cable, headphone system may be overdriven by an amplified audio source.	Ensure that the JBL Reference Series 610 is connected to an appropriate source device. Make sure cables are inserted snugly into receptacles. Reduce volume on the audio source.	

Symptom when used with Bluetooth transceiver	Possible Problem	Solution	Note
Pairing			
Audio device does not pair with headphones.	Audio device does not support AzDP profiles.	Audio device is not compatible. Verify with manufacturer.	
	Headphone system is not powered "On".	Press down on power button.	Blue LED should go from solid to three consecutive, fast blinks, indicating that it's ready to be "discovered" by transceiver or other audio source.
	Headphone system is still paired to Bluetooth transceiver.	Disconnect transceiver from iPod and turn headphone power "Off", then back "On".	If LED has intermittent, slow blinks on both dongle and headphones, both devices are connected. If you wish to re-pair, please follow initial pairing instruction.
	iPod battery is low.	Charge headphones by following the battery charging directions in this User Guide.	If blue LED on headphones continues to blink rapidly after headphone system has paired, it is indicating a low battery. A monotone will also be sounded every 5 seconds for low battery alert.

Technical Specifications

Manufacturer:	Harman Consumer Group, Inc.
Model Name:	JBL Reference Series 610
Available in:	White/Black with Chrome
Features Sensitivity:	95dB SPL/mW @ 1kHz
Input Requirement, iPod Dongle:	iPod Dongle connected to iPod models 4th generation and above
Input Requirement, iPod Dongle:	Bluetooth AzDP and AVRCP profile streaming
Drivers:	Two 40mm neodymium drivers
Input Power:	2 x 50mW maximum power
Frequency Response:	20Hz – 20kHz (-10dB)
Dimensions:	Diameter – 102mm, hardwire audio cable – 1.75m
Weight:	212g without cord
Input Impedance:	32 ohms
Wireless Compatibility:	Most Bluetooth-enabled audio devices with AzDP and AVRCP profiles
Hardwired Compatibility:	Audio devices with 3.5mm mini audio jack connection
Battery Usage:	8–10 hrs continuous play

Symptom when used with Bluetooth transceiver	Possible Problem	Solution	Note
Control Features			
Headphone controls do not work with Bluetooth audio device.	Audio device is not compatible with AVRCP profile.	Audio device is not compatible. Verify with manufacturer.	
Headphone controls have limited operation.	Audio device does not recognize some control features.	Contact your audio device manufacturer to check limitations.	Because of the large variation in design, the control features may be limited due to restrictions on your audio device.
Sound Quality			
No sound from headphones.	Headphone system has lost the link with the audio device.	Follow your audio device's user guide instructions to re-pair the Bluetooth connection.	
	If using audio cable, connection at mini USB or 3.5mm audio inlet end may not be connected properly.	Make sure connectors are mating correctly to your headphone and audio device. Make sure headphone power is "Off".	
Sound drops in and out.	Moving out of transmission range.	Move closer to audio device or change position.	
	Audio device is dropping transmission.	Contact audio device manufacturer for guidance.	
	Headphone battery is low.	Charge headphones by following the battery charging directions in this User Guide.	If blue LED on headphones continues to blink rapidly after headphone system has paired, it is indicating a low battery. A monotone will also be sounded every 5 seconds for low battery alert.
Distortion (static, crackling or hissing sounds).	Noise may be caused by interference from a monitor, cell phone or other transmitting device.	Turn monitor off to see whether noise is eliminated. Use headphones further away from monitor.	
	If using audio cable, headphone system may be overdriven by an amplified audio source.	Ensure that the JBL Reference Series 610 is connected to an appropriate source device. Make sure cables are inserted snugly into receptacles. Reduce volume on the audio source.	

Federal Communication Commission Interference Statement

This equipment 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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device 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.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IC Caution

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.