# Authentics L16

Owner's Manual

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## Introduction

Thank you for purchasing the JBL Authentics L16 home audio system, with which you are about to begin many years of listening enjoyment. The audio system is designed to provide excitement and power to the listening experience in your living room.

To obtain maximum enjoyment from your new audio system, we request you to take a few minutes to read through this manual, which:

- Contains a description of the features of the JBL Authentics L16
- Lists the items included in the box
- Describes the JBL Authentics L16 and its components
- Includes step-by-step instructions that will help you set up and get started with the audio system

A few minutes spent learning the functions of the various controls will allow you to take advantage of all the power and refinement of the JBL Authentics L16.

**CONTACT US**: If you have any questions about this product, its installation or its operation, please contact your retailer or custom installer, or visit our website, www.jbl.com

## Description and Features

JBL Authentics L16 is an affordable wireless speaker system with an iconic design that allows you to stream music with quality sound. The JBL Authentics L16 is a complete home theater audio system that includes:

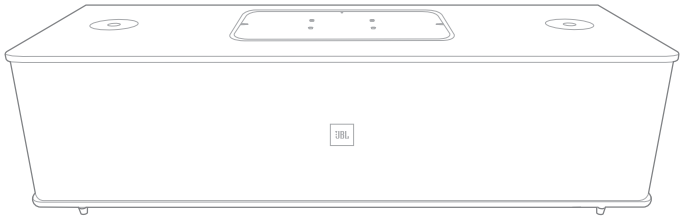
- A powered three-way stereo speaker with wireless audio playback and control
- Wireless audio playback with AirPlay®, DLNA® and Bluetooth®

The JBL Authentics L16 audio system contains two midrange speakers, two woofers, and two tweeters to provide you with an excellent listening experience. The audio system can receive input wirelessly, helping you place the system anywhere in your room without any wires.

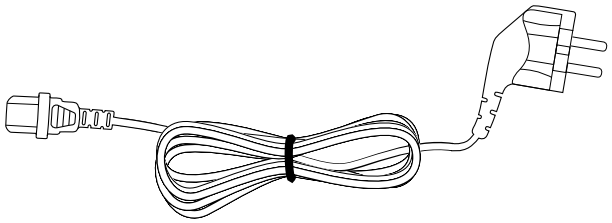
## Included Items

The JBL Authentics L16 audio system includes the following items in the package:

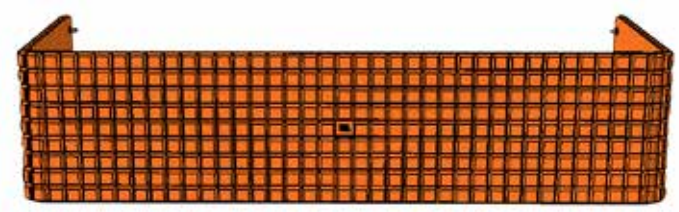
- JBL Authentics L16 audio system



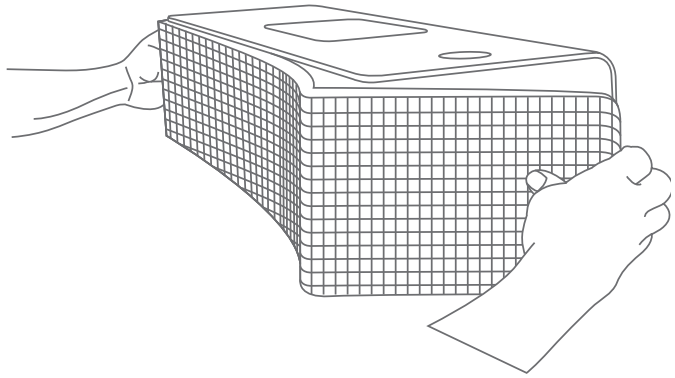
- Regional power cord (varies depending on country)

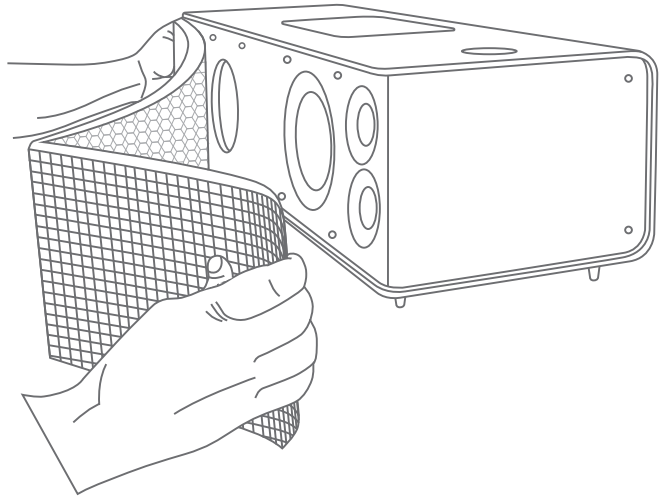


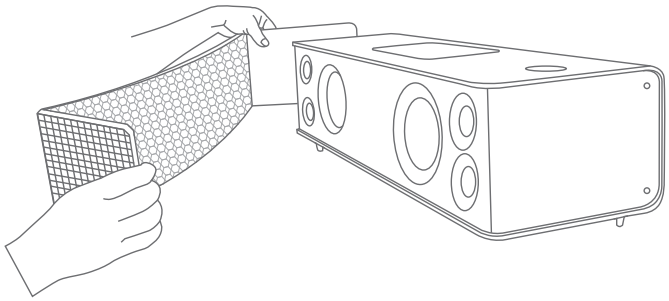
**NOTE: There is a grille that covers the speakers of the audio system. If you want to give a different look to your Authentics L16 audio system, you can buy grilles of different colors (check www.jbl.com for details and availability in your region).**



Refer the following illustrations to remove the grille of your Authentics L16 audio system.





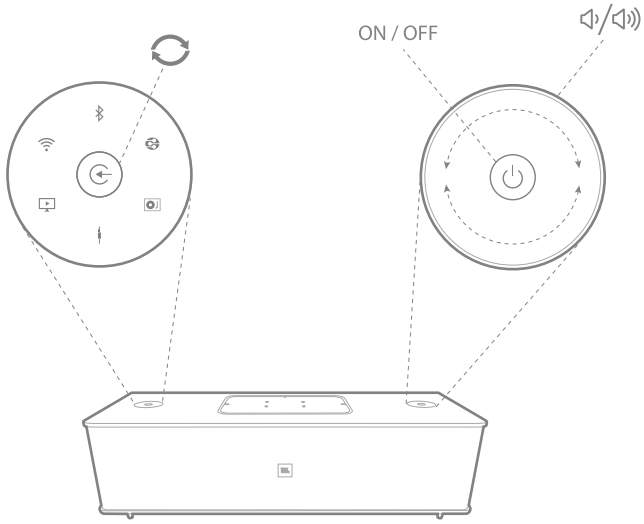


## Controls and Connections

The JBL Authentics system controls and connections are available on the top and bottom panels of the system.

### JBL Authentics L16 Top Panel Controls

On the top-right corner of the system, you will be able to locate the Power button and Volume tuner.



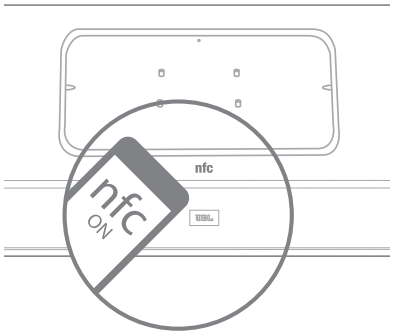

**Power button**: To switch the system ON, press the Power button. The power indicator on the system will turn white and remain on while the system is in Operational mode. To switch the system into Standby, press the Power button again. To restore the settings to the factory defaults, press and hold the Power button for at least 10 seconds.

**Volume tuner**: Use the Volume tuner to increase/decrease the volume level of the audio system. Rotate the tuner clockwise to increase and counterclockwise to decrease the volume level. The volume level is indicated by 10 white LEDs. Each LED indicates 10 percent of the maximum volume level.

**NOTE: The system volume has 40 steps, with 0 being mute. The default volume setting is the 12$^{th}$ step.**

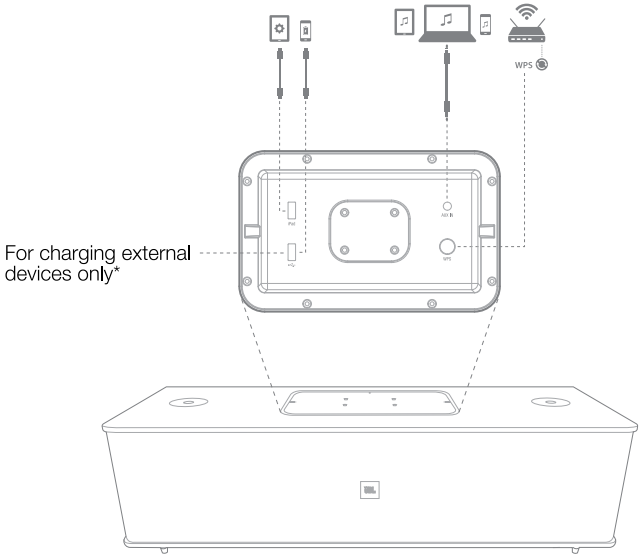
**Source button**: To switch between the sources, press the Source button. The system stops or pauses audio input from the last source and attempts to connect to the new source.

**NFC**: The system also supports Near Field Communication (NFC) for Bluetooth auto-pairing. Place the mobile device near the NFC logo on the top-front of the system to pair or unpair.




The top panel of the JBL Authentics L16 contains the following controls at the center, covered by a lid. The controls can be accessed by removing the lid:

- Two USB Ports
- Aux in
- WPS button




**USB ports**: The USB ports available on the JBL Authentics L16 audio system are used for App communication and charging other devices, such as mobile phones or iOS devices. The system can charge other devices during Operational, Sleep, and Standby modes. The two USB ports are designed to function simultaneously. The system will produce a sound prompt if any device is connected for normal USB charging. No sound prompt is heard when plugging devices into the iPad USB port.

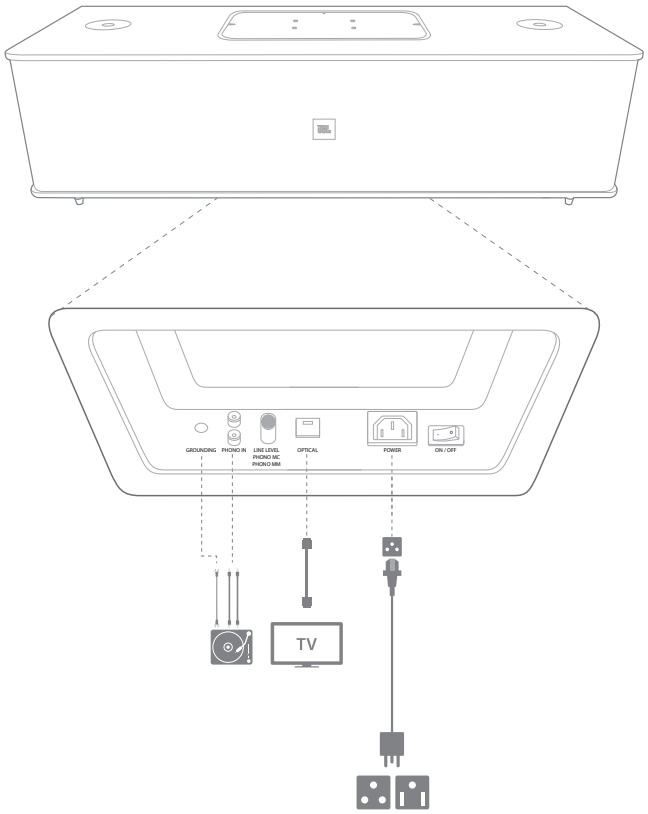
**Aux in**: The audio system includes a 3.5 mm stereo mini analog auxiliary input. It accepts MP3, DVD, cassettes, or CD players when plugged in with an appropriate auxiliary cable.

**WPS**: The Wi-Fi Protected Setup (WPS) button helps your device establish a secure wireless connection easily to any WPS-enabled router.

## JBL Authentics L16 Bottom Panel Controls

The bottom panel of the JBL Authentics L16 audio system provides the following controls:

- Grounding
- Phono in
- Line Level/Phono MC/Phono MM
- Optical
- Power
- ON/OFF




**Grounding**: If you are connecting a turntable to the phono/RCA input, connect the turntable's grounding wire to this terminal.

**Phono/RCA input**: The JBL Authentics L16 audio system has an analog Phono/RCA input (stereo audio). A physical switch is provided to switch between moving-coil, moving-magnet, and line level input. Connect the left and right outputs from your turntable into these input connectors.

**Line Level/Phono MC/Phono MM selector switch**: Set this switch to the correct input level of the device connected to the Phono/RCA input. If you are connecting a turntable with a moving magnet cartridge, a high-output moving coil cartridge, or a moving coil cartridge with a step up transformer, set this switch to Phono MM. If you are connecting a turntable with a moving-coil cartridge, set this switch to Phono MC. For most other devices, set this switch to Line Level.

**IMPORTANT: If you set this switch to the incorrect level, your JBL Authentics L16 may automatically power down into protect mode to avoid damage.**

**Optical input**: If your TV, disc player, or cable/satellite tuner has an optical digital output, use an optical cable (not included) to connect it here.

**Power**: This is the power inlet to provide power for the system to function. Connect the included power cord here.

**ON/OFF**: You can use this switch to connect or disconnect AC power to the system.

# Placing the JBL Authentics L16 System

The audio system is not a portable device and needs to be installed in a specific place in your room to provide you with the best possible music experience. We recommend placing the audio system on a table to enjoy better sound clarity.

The JBL Authentics L16 has been designed alongside the optional JBL stand (sold separately). The floor stand positions your JBL Authentics L16 at the optimal listening height and provides cable management clips for a clutter-free look. Check www.jbl.com to see if the stand is available in your region.

# Connections

The JBL Authentics L16 depends on various connections to work.

## Power Connection

To connect the system to the power source:

1. Connect the supplied AC power cord into the power connector on the bottom panel of the system.
2. Plug the cord into an active, unswitched AC outlet.

**IMPORTANT: DO NOT plug this cord into the accessory outlets found on some audio components.**

## Wi-Fi Connection

You can connect your JBL Authentics L16 to Wi-Fi compatible devices through several methods:

- JBL Music app – If you have installed the JBL Music app on your iOS or Android device
- WPS – If you have a WPS-enabled router
- iOS Wireless Wi-Fi sharing – If you have an iPhone, iPod touch, or iPad running iOS version 5.0 or higher with Bluetooth
- iOS Wi-Fi sharing with cable – If you have an iPhone, iPod touch, or iPad running iOS version 5.0 or higher and a USB to 30 pin or USB to Lightning cable
- Manual Connect mode – If you have an Android device, Mac or PC

### JBL Music App

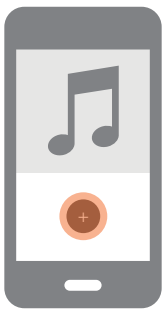
To connect your JBL Authentics L16 to the Wi-Fi network:

1. Download the JBL Music app and open it.

Available on the App Store

ANDROID APP ON Google play

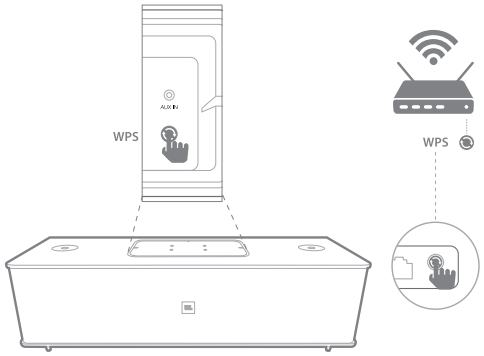
2. Press **+** from the dashboard.



3. Follow the step-by-step instructions.

**WPS Connection**

WPS is a simple way of connecting your system to your home network. Your router may support WPS. To confirm whether it has WPS, look for the logo or the letters WPS on your router. The JBL Authentics L16 supports both WPS-PBC and WPS-PIN modes. If your router supports it, WPS-PBC is the simplest way to set up your Wi-Fi connection.




To connect to your home network via WPS-PBC mode:

1. Press the **WPS** button on your router.
2. Within one minute, press the **WPS** button on the JBL Authentics L16 system for less than two seconds.

To connect to your home network via WPS-PIN mode:

1. Connect to your JBL Authentics L16 via steps 1 to 5 of the Manual Connect mode process on the following page of this Owner's Manual.
2. Press the WPS button on the JBL Authentics L16 for more than three seconds.
3. Note the WPS-PIN code on the top of the JBL Authentics web page.
4. Connect to your router's setup page.
5. Enter the WPS-PIN code from step 3 into the appropriate place on the router's WPS setup page.

The speaker and router will then exchange Wi-Fi settings and connect to each other. Check your Wi-Fi router's manual for compatibility and more information.

**iOS Wireless Wi-Fi Sharing**

If you have an iOS device, use the following method to connect your JBL Authentics L16 to the Wi-Fi network:

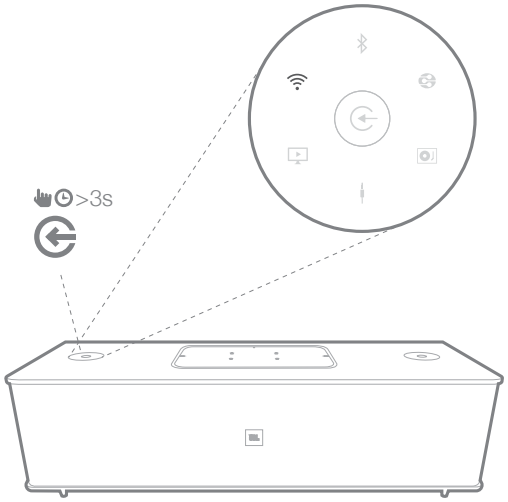
1. Connect your iPhone, iPad or iPod touch to the speaker using Bluetooth.
2. Ensure your iPhone, iPad or iPod touch is connected to your Wi-Fi network.
3. Make sure your device is in the AirPlay source.
4. Press the Source button on the JBL Authentics L16 for at least three seconds.
5. A pop up window will be displayed on your iPad, iPhone or iPod Touch with a message **Share Wi-Fi Settings?**
6. Press **Allow**.

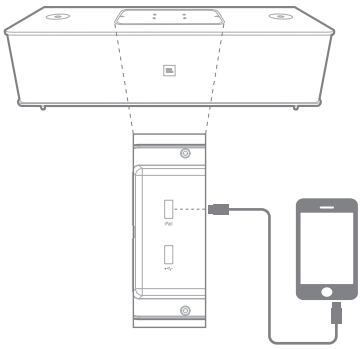
The iPhone, iPad or iPod touch will then share Wi-Fi settings with the JBL Authentics L16 and it will be connected to your Wi-Fi network. This takes at least 40 seconds. Once the JBL Authentics L16 is connected to the network, the system will play a tone indicating the connection is successful.

**iOS Wi-Fi Sharing with Cable**

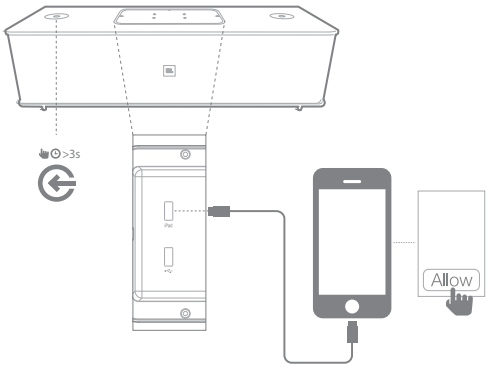
If you have not connected your iOS device with Bluetooth, use the following method to connect your JBL Authentics L16 to the Wi-Fi network:

1. Connect your iPhone, iPad or iPod touch to the system's top USB port, labeled iPad, using the USB to 30-pin or USB to Lightning cable that is provided with your iPhone, iPad or iPod touch.





2. Ensure your iPhone, iPad or iPod touch is connected to your Wi-Fi network.
3. Make sure your device is in the AirPlay source.
4. Press the Source button on the JBL Authentics L16 for at least three seconds.
5. A pop up window will be displayed on your iPad, iPhone or iPod Touch with a message **Share Wi-Fi Settings?**
6. Press **Allow**.

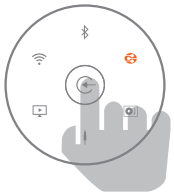



The iPhone, iPad or iPod touch will then share Wi-Fi settings with the JBL Authentics L16 and it will be connected to your Wi-Fi network. This takes at least 40 seconds. Once the JBL Authentics L16 is connected to the network, the system will play a tone indicating the connection is successful.

### Manual Connect Mode

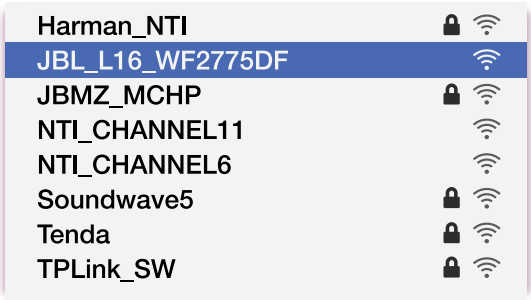
To use your Android or Mac/PC to connect the JBL Authentics L16 to your Wi-Fi network:

1. Switch on the JBL Authentics L16 and wait for about one minute.

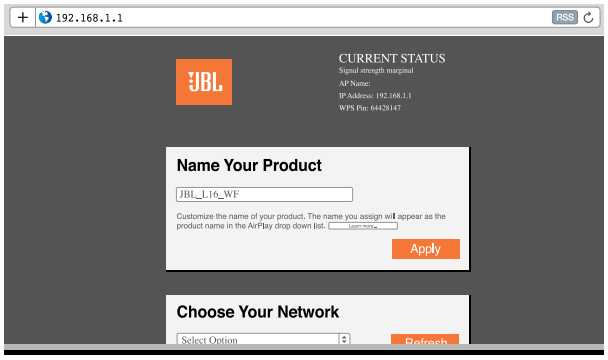


2. Switch sources to DLNA mode.
3. Press and hold the source button for three seconds and then release.
   The DLNA LED will quickly flash twice.

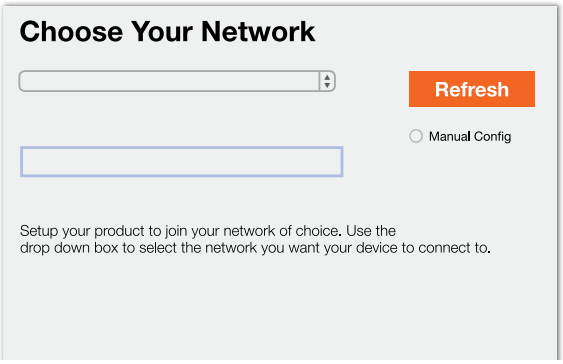
4. Use your computer or phone/tablet to search for a Wi-Fi Network called **JBL_L16_WFXXX** on the Wi-Fi list (this might take about 30 seconds) and connect it. Once connected successfully, the DLNA LED will stop flashing.




5. Open the web browser on your computer or phone/tablet, and in the address bar, enter **192.168.1.1** and press enter.
   The JBL Authentics setup page will appear.




6. Choose the Wi-Fi network you want to connect to, enter the password and click **Save**.



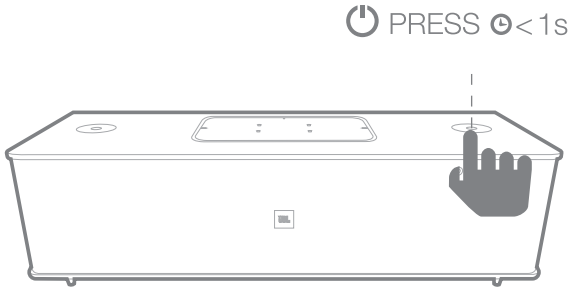

7. JBL Authentics will then attempt to connect to your Wi-Fi Network (the LED shall flash during the connection process).
   Once connected successfully, the LED will stop flashing and an audio tone will be heard.

You can connect your computer or phone/tablet to the same Wi-Fi network as Authentics and enjoy your music wirelessly.

# Operation

## Turning the JBL Authentics L16 ON and OFF

To turn the JBL Authentics L16 ON, press the Power button on the top panel of the system.




To put the system into Standby mode, again press the Power button.

**NOTE: You can toggle between the Standby and the Operational modes by pressing the Power button.**

## Adjusting the System's Volume

Rotate the Volume tuner on the panel of the system clockwise to increase and counter-clockwise to decrease the volume. The white LEDs around the Volume tuner indicate the volume level of the audio system. The system has 40 steps and 12 is the default volume level. All the voice prompts will be played at the default level.

**NOTE: When the system goes into Operational mode from Standby, the volume set during the Operational mode before it went to Standby becomes the default volume level.**

**IMPORTANT: The lowest setting of the volume tuner will mute the system.**

## Muting the System

To mute the JBL Authentics system:

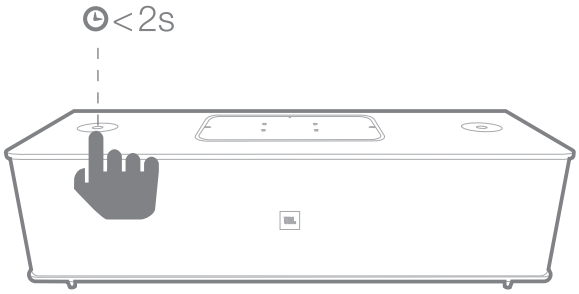
- Set the volume to level 0 by rotating the Volume tuner counterclockwise.

**NOTE: There are no other means to mute the audio system.**

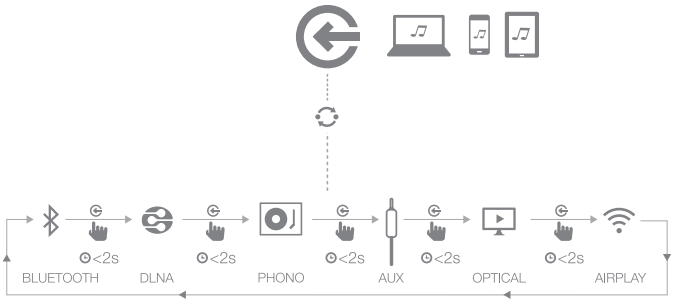
## Switching Sources

Press the JBL Authentics L16 Source button for up to two seconds to cycle between the sources in the following sequence:

1. AirPlay
2. DLNA
3. Bluetooth
4. Aux Input
5. Phono
6. Digital Optical




The system can play only one active source at a time. Press the Source button whenever you want to change the source.

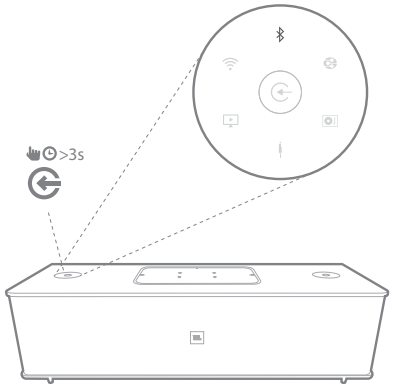



The system has an auto-switch function to switch sources automatically. If you attempt to connect to another source while the system is in operational mode with one source, the system stops or pauses the audio from the last source.

## Operating through Bluetooth

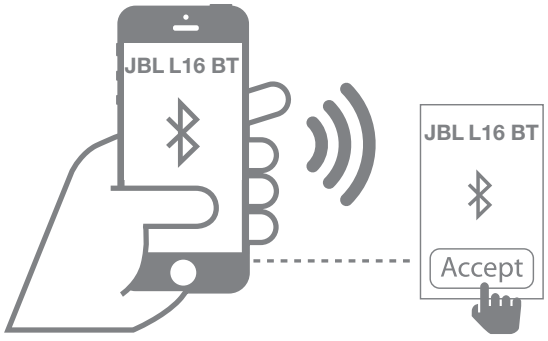
To wirelessly stream audio to the JBL Authentics L16 from a Bluetooth-enabled device:

1. Confirm that the system is in the Bluetooth pairing mode (the Bluetooth indicator LED will flash white on a regular basis). If the LED does not flash white, press and hold the Source button until the system disconnects from the other source and the Bluetooth indicator LED starts flashing white.




2. Use the device's Bluetooth pairing menu to pair it with the JBL Authentics L16. The system will appear as **JBL L16 BT** in the list of Bluetooth available devices. When the system's Bluetooth indicator LED illuminates constantly, it is paired with the device and you can stream audio via Bluetooth from the device to the system.

To listen to audio from the Bluetooth device, press the Source button on the system to switch to the Bluetooth source. As long as the device has already been paired with the system, you can automatically wake the system up from Standby mode by starting to stream an audio Bluetooth signal to it.



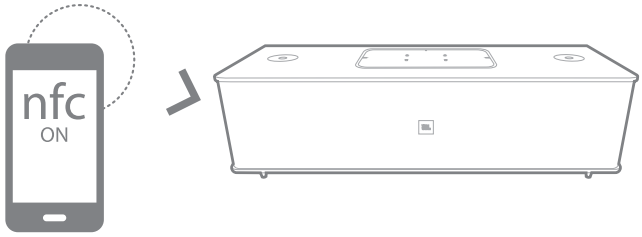

To disconnect the Bluetooth device, press and hold the Source button until the LED begins flashing.

**NOTE:**

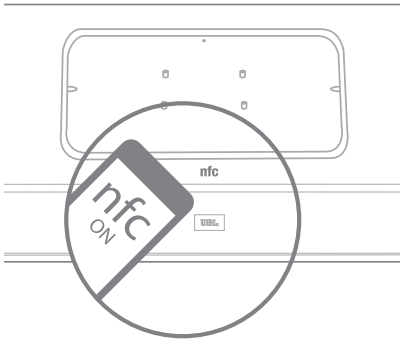
- **You can switch sources to the paired Bluetooth device by pressing the Source button.**
- **If you switch the system to a different source while a paired Bluetooth device is streaming to the system, the system will send a STOP or PAUSE command, and the Bluetooth device will stop streaming.**
- **While pairing the Bluetooth device for the first time, it may reset the volume level to the default.**

## Operating through NFC

The JBL Authentics L16 audio system supports NFC for Bluetooth auto-pairing.




The system has an NFC area on the top panel. To connect through NFC, first disconnect any other sources and switch to the Bluetooth source. Make sure your mobile phone has NFC turned on and the screen is unlocked, then tap the phone to the NFC area on the top panel of the JBL Authentics L16.




If there is a pop-up on your phone asking if you want to pair with the device, select **Yes** and the mobile device will automatically connect to the JBL Authentics L16.

The system name for NFC connection is **JBL L16 BT**.

If the system is in Standby or Sleep mode, the system enters into the Operational mode upon tapping with a mobile phone.

## Operating through Apple AirPlay®

If you have connected your JBL Authentics L16 to your home network, you can stream audio to it via AirPlay® from a compatible iPhone, iPod touch, or iPad with iOS version 4.2 or higher, and computers with iTunes 10.1 or higher that are connected to the same network.

To initiate AirPlay streaming from a computer with iTunes,

1. Launch **iTunes**.
2. Click the **AirPlay** button that appears at the bottom of the **iTunes** window.
3. Select **JBL_L16_WF_XXXXXX** in the pop-up list, where XXXXXX is the last six characters of the system's MAC address.

To initiate AirPlay streaming from an iPod, iPhone, or iPad device,

1. Tap the **AirPlay** button on the device's screen.
2. Select **JBL_L16_WF_XXXXXX** in the speaker selection drop-down list.

The AirPlay audio stream will break in and stop the currently playing source. If the system is in Sleep mode, it will turn on and begin playing the AirPlay audio stream.

You can change the display name of your JBL Authentics L16 using the JBL Music app or the JBL Authentics setup page.

## Operating through DLNA®

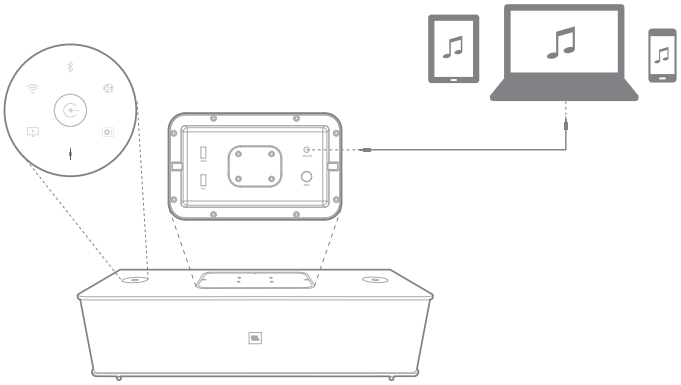
You can use DLNA® compliant software to stream audio to your JBL Authentics L16 from a PC or Android device that is connected to the same network. To operate through DLNA, from the media player software, select audio to play back on the **JBL_L16_WF_XXXXXX,** where XXXXXX is the last six characters of the system's MAC address. The DLNA audio stream will break in and stop the currently playing source. If the system is in Sleep mode, it will turn ON and begin playing the DLNA audio stream. Check your media player software documentation for more details.

The JBL Authentics L16 is a DLNA Digital Media Renderer (DMR) device. Your media player software must be capable of acting as a DLNA Digital Media Server (DMS) and Digital Media Controller (DMC) to initiate the audio stream. Third party DLNA software can be found online, or on Google Play for Android devices. Compatible software can also be found on the Apple App Store for a Mac or iOS device. The JBL Authentics L16 is capable of playing MP3, WMA, AAC, or PCM audio files via DLNA.

## Operating through Aux Input

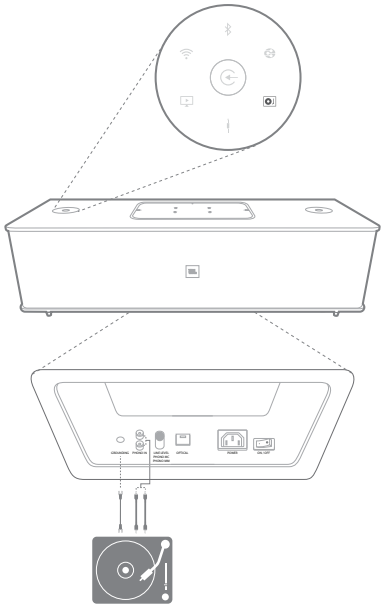
To play music through Aux input in the system:

1. Connect the auxiliary device to the Aux in jack using a stereo 3.5 mm (1/8" auxiliary cable).
2. Switch to the Aux input source.
3. Control music playback through the auxiliary device.



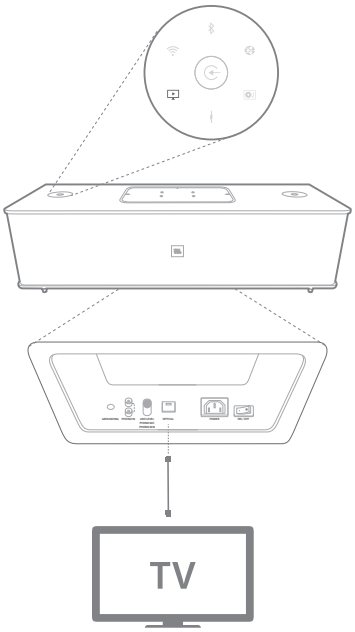
## Operating through Phono/RCA Input

The audio system also allows non-digital audio input to play through an analog Phono/RCA input (stereo audio). You may connect a turntable with either a moving-magnet or moving-coil cartridge to this input. Make sure to select the correct input level (MM, MC, or line level), using the input level selector switch on the bottom panel.



## Operating through Digital Optical Input

The digital optical input port in the system allows the system to play raw PCM at a sample rate of 44.1 kHz or 48 kHz. If any audio signal is available in the digital optical input, the system detects the signal and starts playing music.




## Web Page Functions

You can access the web page to change Wi-Fi settings or upgrade the device firmware. You can access the web page by typing its IP address into your browser on your Mac or PC. To find the IP address, access your router's setup page. For more information, consult the documentation for your router.

## Charging Devices through Qi

The optional JBL Authentics Qi module (sold separately) allows your JBL Authentics L16 to wirelessly charge your Qi-compatible mobile devices.

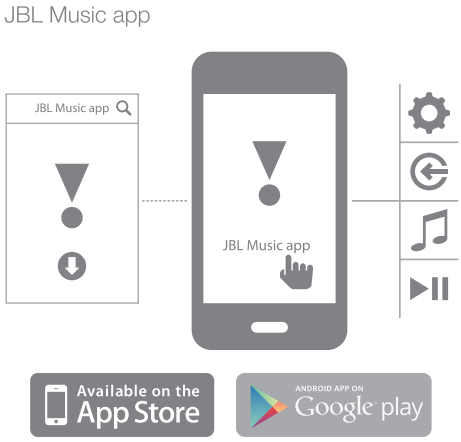
To install the JBL Authentics Qi module,

1. Remove the top panel cover of the JBL Authentics L16.
2. Plug the JBL Authentics Qi module's USB connector into the JBL Authentics L16's top USB port labeled **iPad**.
3. Set the JBL Authentics Qi module into the top panel cover spot. It will fit securely, replacing the top panel cover entirely.
4. Place your device on the top of the JBL Authentics L16. It will automatically start charging.

Many mobile devices including mobile phones, video game controllers and mobile phone accessories are Qi-compatible. Consult the retailer or manufacturer's specifications to find out whether your mobile device is Qi-compatible. Check www.jbl.com to see if the Authentics Qi module is available in your region.

## JBL Music App

JBL Authentics L16 can be operated through the JBL Music app available in the App Store for Apple products or Google Play for Android products. You can use the JBL Music app to stream music to and control the JBL Authentics L16 through your smart phone or tablet.




## Firmware Upgrade and Factory Setting Reset

JBL will release firmware updates for your JBL Authentics L16 on a regular basis. Check www.jbl.com periodically to see if any updates are available. If a new firmware version is released, first download it from the JBL website and save the file to an easy-to-remember location on your computer.

The system is non-functional during the upgrade process. The previous user settings and preferences are retained after the upgrade process is completed. After the upgrade is successful, the system will automatically reboot.

The JBL Music app makes it easy to check if your JBL Authentics L16 is already running the latest version. To check for new updates with the app:

1. Make sure your iOS or Android device is connected to your JBL Authentics L16. This is done either by connecting both devices to the same Wi-Fi network, connecting your device to the system via Bluetooth, or by connecting your iOS or Android device via USB to the top USB port on the JBL Authentics L16 top panel (labeled iPad).
2. Open the JBL Music app on your iOS or Android device.
3. Select L16 from the app's dashboard.
4. Open the upgrade tab on the app, which will automatically check and inform you if there is a new version available.

If a new version is available, download it from the JBL website and proceed with the following upgrade method:

1. Place the upgrade file downloaded from the website, www.jbl.com onto the root directory of a USB drive.
2. Insert the USB drive into the top USB port on the top panel (labeled iPad).
3. Press the Power and Source buttons simultaneously for five seconds. The system will automatically begin the upgrade process.

**NOTE: The upgrade process normally takes up to 30 minutes to complete. Do not attempt to operate or remove power from the system during the upgrade process.**

**If the upgrade process has not completed after 1 hour, restart the system by removing and reconnecting AC power, then begin the upgrade process again.**

### Factory Setting Reset

To restore all settings to the factory defaults, press and hold the power button for at least 10 seconds. The following settings will be reset:

- Source
- Volume settings
- EQ settings
- AirPlay name
- Wi-Fi settings

## LED Indication Table

| LED | State | Indication |
|---|---|---|
| Power LED | White, Constant | Operational mode |
| | Amber, Constant | Sleep mode |
| | Off | OFF/Standby mode |
| Bluetooth LED | White, Constant | Bluetooth connected |
| | White, Regular Flash | Bluetooth disconnected and pairing mode |
| AirPlay LED | White, On | AirPlay source active, Wi-Fi info sharing |
| DLNA LED | White, On | DLNA source active, Wi-Fi Manual Connect mode |
| Aux-in LED | White, Constant | Aux-in source active |
| Phono LED | White, Constant | Phono source active |
| Optical LED | White, Constant | Optical source active |
| Volume LEDs | White, Constant | Volume Level |
| All LEDs | Flash five times | Factory settings restored |
| Wireless Charging | White, On | Charging device recognition |
| | White, Breathing | Charging |
| | White, Quick Flash | Error indicator |

## Troubleshooting

If your JBL Authentics L16 system is not performing the way you think it should, check if the problem is covered in this section before calling your dealer or contacting a JBL representative.

| Problem | Solutions |
|---|---|
| My JBL Authentics L16 does not turn ON | • Make certain the AC power cord is plugged into a live outlet.<br>• Check to see whether the outlet is switch-controlled. |
| No sound from any speaker | • Contact your local JBL service center. |
| Audio sources sound distorted | • If the distortion is heard in the Phono/RCA input source, make sure the MM/MC/Line switch is set to the correct setting.<br>• If the distortion is heard in the Aux-in source, check to make sure the connection is secure. |
| Amplifier turns ON, but no audio from one or more channels | • Check input connections.<br>• Check the settings on your preamp, processor or controller. |

## Specifications

| | |
|---|---|
| Type | Powered three-way stereo speaker with wireless audio playback and control |
| High-frequency transducers | 1 inch tweeter |
| Mid-range transducers | 2 inch midrange |
| Low-frequency transducers | 5.25 inch woofer |
| Frequency response | 35 Hz – 35 kHz |
| Maximum SPL | 108 dB @ 1m |
| Signal-to-Noise ratio (analog inputs) | 92 dB |
| Signal-to-Noise ratio (phono MM input) | 78 dB |
| Signal to Noise Ratio (digital inputs) | 95 dB |
| Amplifier power | 6 x 50W RMS |
| Amplifier THD at full power | <1% |
| Wireless audio playback technologies | AirPlay, DLNA, Bluetooth |
| Connections | 1 x stereo 3.5 mm, 2 x USB (type A), 1 x Stereo RCA phono input, 1 x Digital optical input |
| Dimensions (H x W x D) | 294 mm x 818 mm x 369 mm |
| Weight | 16.3 kg |
| Power supply | 100-240 V~50/60 Hz |
| Power consumption | 300 W maximum, <0.5 W eco-standby mode |
| Bluetooth transmitter frequency range | 2.402 - 2.480 GHz |
| Bluetooth transmitter power | Max 4 dBm |
| Bluetooth transmitter modulation | GFSK, π/4 DQPSK, 8DPSK |
| AirPlay frequency range | 2412 MHz~2472 MHz (2.4GHz ISM Band, USA 11 Channels, Europe 13 Channels) |
| AirPlay transmitter power | <20 dBm (EIRP) |
| AirPlay modulation | 802.11b:DSSS (DBPSK, DQPSK, CCK) ;<br>802.11g:OFDM (BPSK, QPSK, 16QAM, 64QAM) |
| AirPlay network compatibility | 802.11b/g |

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The Wi-Fi Protected Setup Identifier Mark is a mark of the Wi-Fi Alliance.

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“Made for iPod,” “Made for iPhone,” and “Made for iPad” mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance. AirPlay, iPad, iPhone, iPod, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.” Made for iPhone 5, iPhone 4S, iPhone 4, iPhone 3GS, iPad (3rd and 4th generation), iPad 2, iPad, iPad mini, and iPod touch (3rd through 5th generation).

AirPlay works with iPhone, iPad, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion, and Mac and PC with iTunes 10.2.2 or later.