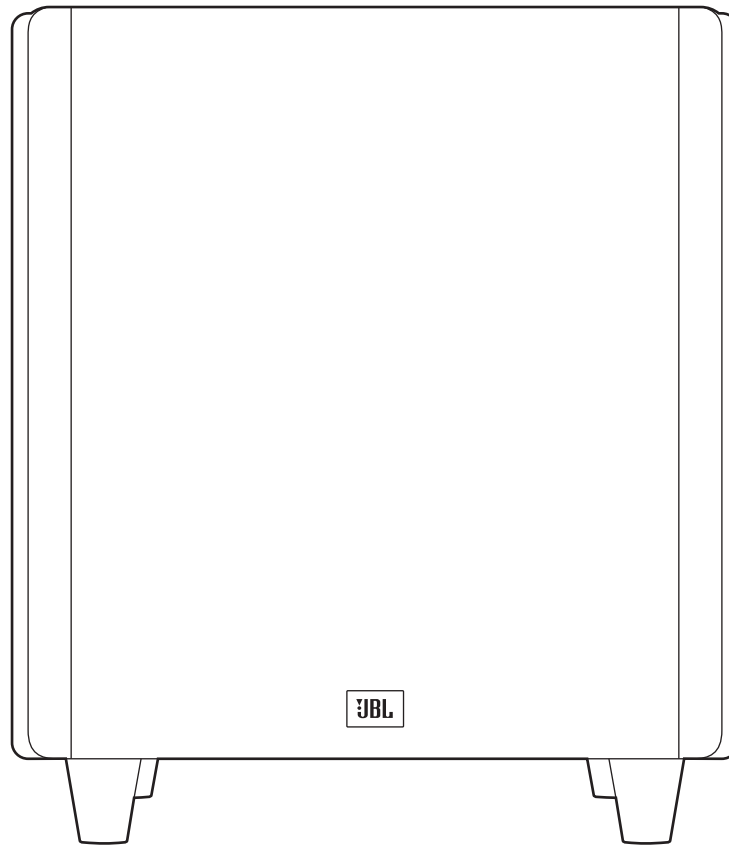




STUDIO 650P/660P

Powered Subwoofer



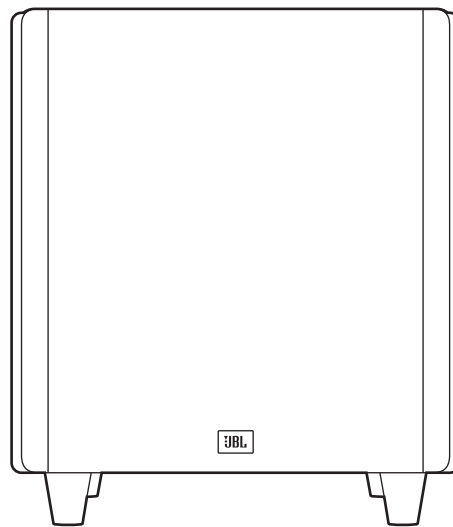
OWNER'S MANUAL





STUDIO 650P/660P

Powered Subwoofer



650P/660P

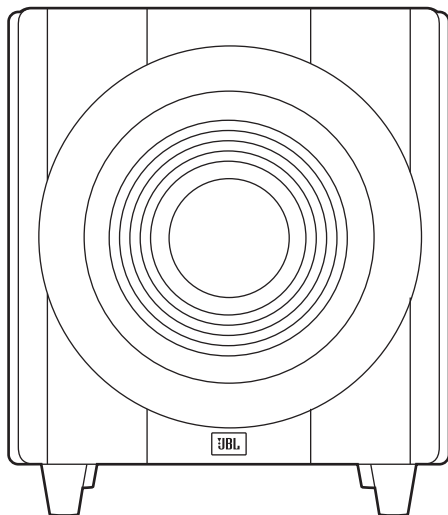
THANK YOU FOR CHOOSING THIS JBL® PRODUCT

Your new JBL® powered subwoofer incorporates a high-performance transducer and built-in amplifier that delivers the powerful, dynamic and accurate low-frequency performance that makes your film soundtracks and music come alive. And with adjustable crossover, phase controls and automatic turn on/off, it is also simple to connect and set up.

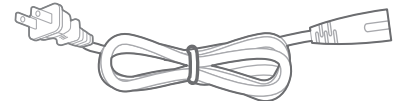
We're confident that this JBL subwoofer will provide every note of enjoyment that you expect – and that when you think about purchasing additional audio equipment for your home, car or office, you will once again choose JBL products.

This quick-start guide contains all the information you need to set up, connect and adjust your new subwoofer. For more in-depth information, go to our web site: www.jbl.com.

INCLUDED ITEMS



4X

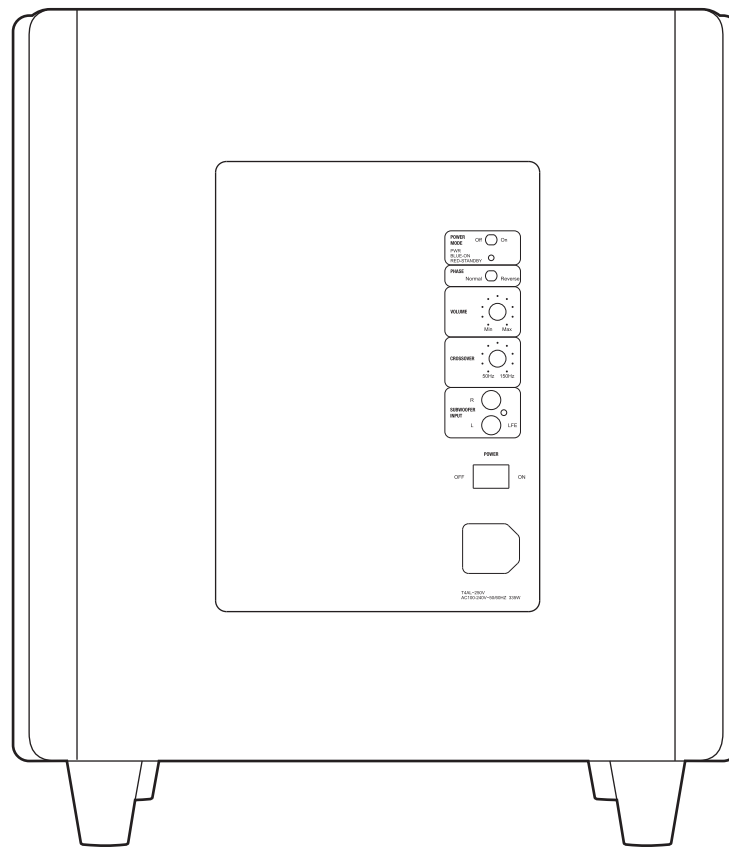


1X

Note: Type of power plug varies by regions.

OWNER'S MANUAL

SUBWOOFER REAR-PANEL CONTROLS AND CONNECTION



1) Power Mode:

When switched to 'Auto' position, the subwoofer will then be in Standby mode. It will automatically turn on when an audio signal is detected and will return to the Standby mode when no audio signal is detected after approximately 10 minutes. Setting this switch to 'On' keeps the subwoofer powered until Power Switch is turned 'Off.'

2) On/Standby LED:

When the Power Switch is in the 'On' position, this LED indicates whether the subwoofer is in the On or Standby state.

- When the LED glows *blue*, the subwoofer is turned On.
- When the LED glows *red*, the subwoofer is in the Standby mode.

3) Phase Switch:

This switch determines whether the subwoofer transducer's piston-like action moves in and out in phase with the main speakers. If the subwoofer were to play out of phase with the main speakers, the sound waves from the main speakers could partially cancel out the sound waves from the subwoofer, reducing bass performance and sonic impact. This phenomenon depends in part on the placement of all the speakers relative to the listening position and to each other in the room.

4) Crossover Control:

This control determines the highest frequency at which the subwoofer reproduces sounds. The higher you set the Crossover control, the higher in frequency the subwoofer will operate and the more its bass will "overlap" that of the speakers. This adjustment helps achieve a smooth transition of bass frequencies between the subwoofer and the speakers for a variety of different rooms and subwoofer locations.

5) Volume:

Use this control to adjust the subwoofer's volume. Turn the knob clockwise to increase the volume; turn the knob counterclockwise to decrease the volume.

6) Subwoofer (LFE Input):

Connect the subwoofer to the dedicated subwoofer / LFE output of a receiver/processor.

7) Power Switch:

Set this switch in the 'On' position to turn the subwoofer on. If you will be away from home, or will not be using the subwoofer for an extended period, set this switch in the 'Off' position to conserve energy.

8) Power Input:

After you have made and verified the subwoofer's input connection, plug the power cord into an active, unswitched electrical outlet for proper operation of the subwoofer. DO NOT plug the power cord into the accessory outlets found on some audio components.

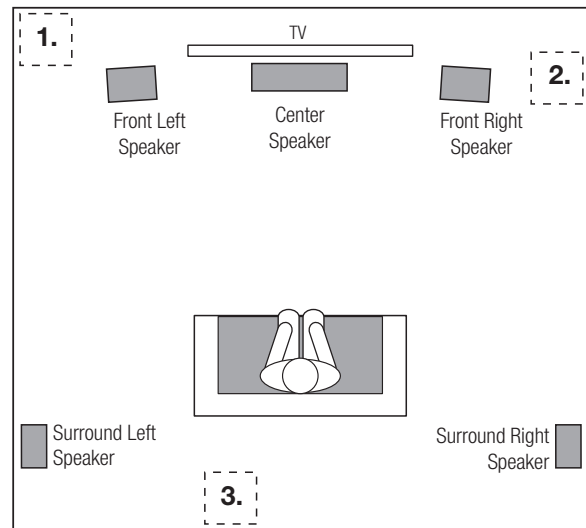
PLACING THE SUBWOOFER

The performance of a subwoofer is directly related to its placement in the listening room and its physical position relative to the other speakers in the system.

While it is true that in general our ears do not hear directional sounds at the low frequencies where subwoofers operate, when installing a subwoofer within the limited confines of a room, the reflections, standing waves and absorptions generated within the room will strongly influence the performance of any subwoofer system. As a result, the specific location of the subwoofer in the room does become important to the amount and quality of bass that is produced.

For example, placing the subwoofer next to a wall generally will increase the amount of bass in the room; placing it in a corner (1) generally will maximize amount of bass in the room. However, corner placement can also increase the destructive effect of standing waves on bass performance. This effect can vary depending on the listening position – some listening positions may yield very good results while others may have far too much (or too little) bass at certain frequencies.

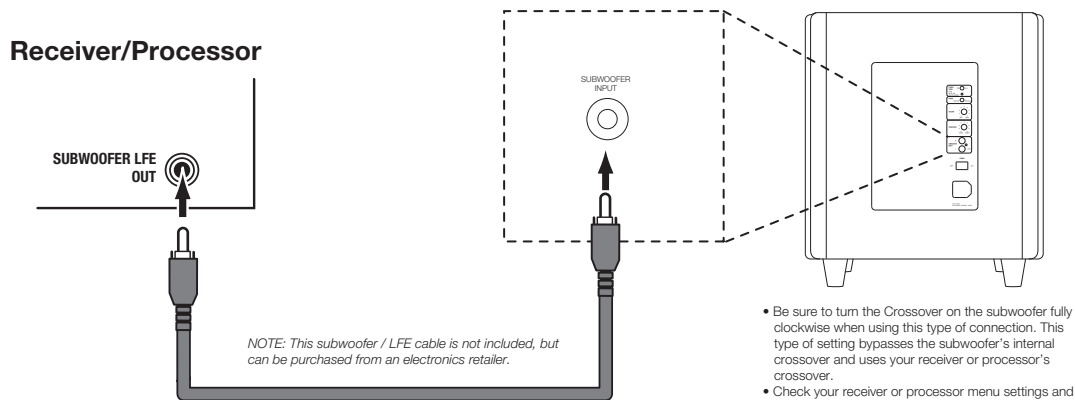
In many rooms, placing the subwoofer along the same plane as the left and right speakers (2) can produce the best integration between the sound of the subwoofer and that of the left and right speakers. In some rooms, the best performance could even result from placing the subwoofer behind the listening position (3).



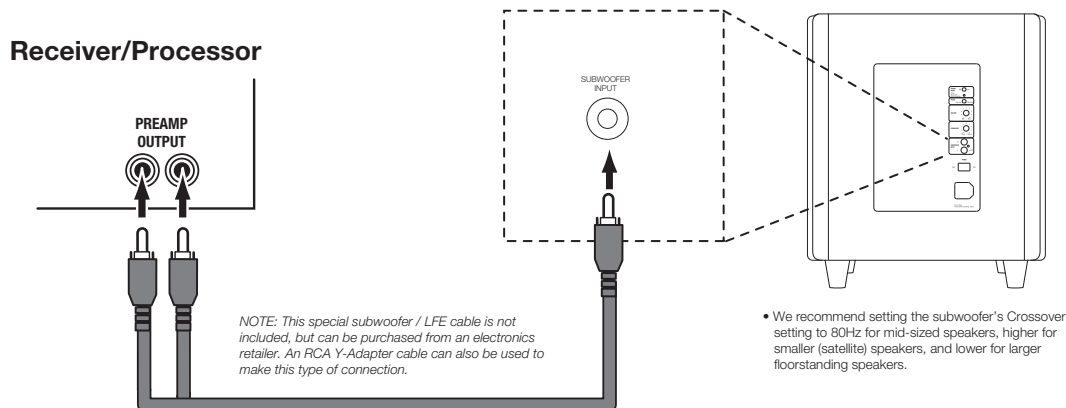
We strongly recommend that you experiment with placement before choosing a final location for your subwoofer. One way you can determine the best location for the subwoofer is by temporarily placing it in the listening position and playing music with strong bass content. Move around to various locations in the room while the system is playing (putting your ears where the subwoofer would be placed), and listen until you find the location where the bass performance is best. Place the subwoofer in that location.

CONNECTING THE SUBWOOFER

TO A RECEIVER OR PREAMP/PROCESSOR WITH A LOW-PASS FILTERED DEDICATED SUBWOOFER OUTPUT (LFE)



TO A RECEIVER OR PREAMP/PROCESSOR WITH PREAMP OUTPUTS





STUDIO 650P

10" Powered Sub-woofer System with 500W amplifier

- 10" (254mm) PolyPlas Low-Frequency Woofer
- Power: 250W RMS (500W Dynamic)
- Frequency Response: 28 Hz - 150 Hz
- Crossover Frequencies: 50 Hz - 150 Hz (variable) 24 dB/octave
- Controls: Auto Power, Crossover, Level, Phase
- Input: One (1) Line-Level LFE Input
- Enclosure Type: Bass-Reflex via Bottom-Firing Tuned Port
- Power Requirement: 120V, 60Hz (US) 220-230V, 50/60Hz (EU)
- Power Consumption (Idle/Full/Power): <0.5W (standby) / 335W/2.1A (max - 230V) / 335W/4A (max - 120V)
- Dimensions (W x D x H): 395 x 395 x 395 mm
- Weight: 23 lbs (kg)

OPERATING THE SUBWOOFER

TURNING THE SUBWOOFER ON AND OFF

Set the subwoofer's Power Switch to the 'On' position. Now set the subwoofer's Power Mode to the 'Auto' position. The subwoofer will automatically turn itself on when it receives an audio signal, and it will go into Standby mode after it has received no audio signal for approximately 10 minutes. The subwoofer's LED will glow blue when the subwoofer is on and will glow red when the subwoofer is in Standby.

If you will not be using the subwoofer for an extended period – for instance, if you're going on vacation – set the Power Switch to the 'Off' position.

SUBWOOFER ADJUSTMENTS: CROSSOVER

The Crossover control adjusts the subwoofer's built-in low-pass filter crossover between 50Hz and 150Hz. The higher you set the Crossover control, the higher in frequency the subwoofer will operate and the more its bass will 'overlap' that of the speakers. This adjustment helps achieve a smooth transition of bass frequencies between the subwoofer and the speakers for a variety of different rooms and subwoofer locations.

To set the Crossover control, listen for the smoothness of the bass. If the bass seems too strong at certain frequencies, try a lower Crossover control setting. If the bass seems too weak at certain frequencies, try a higher Crossover control setting.

SUBWOOFER ADJUSTMENTS: VOLUME

Use the volume control to set the subwoofer's volume. Turn the knob clockwise to increase the subwoofer's volume; turn the knob counterclockwise to decrease the volume. Once you have balanced the subwoofer's volume with that of the other speakers in your system, you shouldn't have to change the volume control setting.

Notes on Setting Subwoofer Volume:

- Sometimes the ideal subwoofer volume setting for music is too loud for films, while the ideal setting for films is too quiet for music. When setting the subwoofer volume, listen to both music and films with strong bass content and find a 'middle ground' volume level that works for both.
- If your subwoofer always seems too loud or too quiet, you may want to place it in a different location. Placing the subwoofer in a corner will tend to increase its bass output, while placing it away from any walls or corners will tend to lessen its bass output.



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STUDIO 660P

12" Powered Sub-woofer System with 1000W amplifier

- 12" (305mm) PolyPlas Low-Frequency Woofer
- Power: 500W RMS (1000W Dynamic)
- Frequency Response: 28 Hz - 150 Hz
- Crossover Frequencies: 50Hz – 150Hz (variable) 24 dB/octave
- Controls: Auto Power, Crossover, Level, Phase
- Input: One (1) Line-Level LFE Input
- Enclosure Type: Bass-Reflex via Bottom-Firing Tuned Port
- Power Requirement: 120V, 60Hz (US) ; 220V-230V, 50/60Hz (EU)
- Power Consumption (Idle/Full/Power): <0.5W (standby) / 700W 4A (max - 230V) / 700W/7.2A (max - 120V)
- Dimensions (W x D x H): 420 x 420 x 420 mm
- Weight: 25.10 lbs (kg)

SUBWOOFER ADJUSTMENTS: PHASE

The Phase switch determines whether the subwoofer driver's piston-like action moves in and out in phase with the speakers. If the subwoofer were to play out of phase with the speakers, the sound waves from the speakers could partially cancel out the waves from the subwoofer, reducing bass performance and sonic impact. This phenomenon depends in part on the placement of all the speakers relative to each other and the listener(s) in the room.

Although in most cases you should leave the Phase switch in the 'Normal' position, there is no absolutely correct setting for the Phase switch. When the subwoofer is properly in phase with the speakers, the sound will be clearer and have maximum impact, and percussive sounds like drums, piano and plucked strings will sound more life-like. The best way to set the Phase switch is to listen to music that you know well and to set the switch in the position that gives drums and other percussive sounds maximum impact.

USING THE SUPPLIED CARPET SPIKES

Four metal spikes are supplied for use when you place the subwoofer on a carpeted surface. Do not use these spikes when placing subwoofer on non-carpeted surfaces.

To insert the spikes:

1. Gently lay the subwoofer on its side (not its front or back) on a soft, nonabrasive surface.
2. Screw each spike into the threaded insert in each foot. Make sure all four spikes are screwed in completely for stability.

Note: NEVER drag the subwoofer to move it. Always carefully lift the subwoofer and carry it to its new location.



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