**IMPORTANT SAFETY PRECAUTIONS**

Read First!

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized 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 the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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.
15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. The mains plug of the power supply cord shall remain readily operable.
18. Do not expose batteries to excessive heat such as sunshine, fire or the like.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

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**FEDERAL COMMUNICATIONS 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:** To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment. (Example – use only shielded interface cables when connecting to computer or peripheral devices.)

**FCC Radiation Exposure Statement**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

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.
INTRODUCTION
ES150PW/ES250PW
Wireless Powered Subwoofers
For more than 60 years, JBL® audio equipment has been used in concert halls, recording studios and movie theaters around the world, and become the hands-down choice of leading recording artists and sound engineers. With the JBL ES Series, innovative technologies such as titanium-laminate-dome tweeters, Elliptical Oblate Spheroidal (EOS) waveguides and PolyPlas™ transducer reinforcement are available to you. In addition, the ES150PW/ES250PW’s compact enclosure and wireless capability allow for easy integration into any residential environment. Enjoy!

Unpacking the Subwoofer
If you suspect damage from transit, report it immediately to your dealer. Keep the shipping carton and packing materials for future use.

Included
1 x Owner’s manual
1 x USA warranty sheet
1 x Subwoofer
1 x 15’ Audio cable, RCA-RCA
1 x Transmitter module
1 x Power supply for transmitter
1 x 120V AC power cord for transmitter power supply
1 x 5’ Audio cable, RCA-RCA
1 x Wall-mount bracket for transmitter (with two pan-head M3 x 4 machine screws for attaching wall-mount bracket to transmitter)
4 x Small, round, self-adhesive feet – to be attached on transmitter’s left side panel if transmitter is to be used vertically.

PLACEMENT
Since the installation of a subwoofer can be somewhat more complicated than installing full-range speakers, it is essential that you read this section very carefully prior to connecting the subwoofer to your system. Should you have questions relating to your installation, it is advisable to contact either your dealer or the JBL Customer Service Department for advice.

The performance of the subwoofer is directly related to its placement in the listening room and how you align the subwoofer with its satellite speakers. The ES150PW/ES250PW’s wireless capability makes it even easier to properly locate the subwoofer in your room. Setting the volume of the subwoofer in relation to the left and right speakers is also of critical importance because it is essential that the subwoofer integrate smoothly with the entire system. Setting the subwoofer’s volume level too high will result in an overpowering, boomy bass. Setting the volume level too low will negate the benefits of the subwoofer. Here are several additional facts on installation that may prove useful. It is generally believed by most audio authorities that low frequencies (below 125Hz) are nondirectional and, therefore, placement of a subwoofer within any listening room is not critical. While in theory it is true that the larger wavelengths of extremely low frequencies are basically nondirectional, the fact is that, when installing a subwoofer within the limited confines of a room, 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 becomes important, and it is strongly recommended that you experiment with placement before choosing a final location.

Placement will depend upon your room and the amount and quality of bass required (for example, whether or not your room permits placement of the subwoofer near other satellites).

Figure 1. This example shows the subwoofer positioned behind the right-channel satellite speaker to re-create the actual location of bass instruments in an orchestra and/or add impact to movie soundtracks.
CONTROLS AND CONNECTIONS

Rear Panel

1. Power Switch
2. Line-Level Inputs
3. LFE Input
4. Low-Pass Selector (Wireless Input Only)
5. ID-Code Selector
6. Crossover Adjustment Control
7. Subwoofer-Level Volume Control
8. Phase Switch
9. Wireless Antenna

Transmitter
10. Transmitter Antenna
11. Transmitter Power-Supply Input
12. Transmitter ID-Code Selector
13. Transmitter Sub Input

JBL Professional
A Harman International Company

CAUTION

DO NOT OPERATE THE UNIT IN A WET ENVIRONMENT.
DAMAGED EQUIPMENT MAY RESULT FROM WATER LEAKAGE.

AC 120V~60Hz 2A
SYSTEM CONNECTIONS

Choose either Wireless or Wired connection, then follow the appropriate instructions.

WIRELESS

Connecting the Subwoofer for Wireless Applications

1. Connect a subwoofer cable from the subwoofer or LFE output of your receiver to the Sub In on the transmitter.
2. Plug the transmitter module’s power supply into the wall outlet, and connect the included power cord to the transmitter. Make sure the Transmitter Antenna is extended upward.
3. Set the ID code on the transmitter and subwoofer to the same position, as described on page 6. When connected properly, the LED on the top of the subwoofer will be orange.
4. Set the Low-Pass Selector to the “Off” position.

NOTES:
You may also connect a variable full-range output from an A/V receiver or processor, such as a preamp output or second-room output. In this case, set the Low-Pass Selector to the “On” position and set the crossover adjustment as described on page 6.

Some receivers have two subwoofer outputs. In that case, use either connector.

WIRED

Connecting the Subwoofer for Wired Applications

If you have a Dolby® Digital or DTS® receiver/processor with a low-frequency effects (LFE) or subwoofer output:

1. Connect a subwoofer cable from the subwoofer or LFE output of your receiver to the Sub In on the transmitter.
2. Plug the transmitter module’s power supply into the wall outlet, and connect the included power cord to the transmitter. Make sure the Transmitter Antenna is extended upward.
3. Set the ID code on the transmitter and subwoofer to the same position, as described on page 6. When connected properly, the LED on the top of the subwoofer will be orange.
4. Set the Low-Pass Selector to the “Off” position.

NOTE: If your receiver/processor has only one sub out, you may use either the L or R input.
With the Power Switch
The transmitter will automatically enter Standby mode after approximately

GREEN (SOLID) = Transmitter is on and has already established a link

RED = STANDBY (No signal detected, transmitter off)

signal from the source, it will immediately turn on and the LED will turn to

The Status LED (not shown) will be

Transmitter (Wireless Connection Only):

Auto On/Standby

For the subwoofer. Initially set the Subwoofer-Level Control to the “Mix” position. Turn on your sub by pressing the Power Switch on the rear panel. Turn on your entire audio system and start a CD or movie soundtrack at a moderate level.

Auto On/Standby

Transmitter (Wireless Connection Only):

Operate the transmitter and subwoofer so that they are in the same system. Initially set the Subwoofer-Level Control to the “Mix” position. Turn on your sub by pressing the Power Switch on the rear panel. Turn on your entire audio system and start a CD or movie soundtrack at a moderate level.

Auto On/Standby

Transmitter (Wireless Connection Only):
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>ES150PW</th>
<th>ES250PW</th>
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</thead>
<tbody>
<tr>
<td><strong>Frequency Response</strong></td>
<td>27Hz – 150Hz</td>
<td>25Hz – 150Hz</td>
</tr>
<tr>
<td><strong>Amplifier RMS Power</strong></td>
<td>300 Watts</td>
<td>400 Watts</td>
</tr>
<tr>
<td><strong>Amplifier Peak Dynamic Power†</strong></td>
<td>500 Watts</td>
<td>700 Watts</td>
</tr>
<tr>
<td><strong>Crossover Frequencies</strong></td>
<td>50Hz – 150Hz; 24dB/octave, continuously adjustable when activated</td>
<td>50Hz – 150Hz; 24dB/octave, continuously adjustable when activated</td>
</tr>
<tr>
<td><strong>Driver</strong></td>
<td>10” (250mm) PolyPlas™</td>
<td>12” (300mm) PolyPlas™</td>
</tr>
<tr>
<td><strong>Operating Range</strong></td>
<td>Up to 75’ (22m), depending upon conditions</td>
<td>Up to 75’ (22m), depending upon conditions</td>
</tr>
<tr>
<td><strong>RF Operating Frequency</strong></td>
<td>2.4GHz</td>
<td>2.4GHz</td>
</tr>
<tr>
<td><strong>Subwoofer Dimensions (H x W x D)</strong></td>
<td>18” x 13-1/4” x 18-1/8” (457mm x 337mm x 469mm)</td>
<td>19-3/4” x 15-3/4” x 17-7/8” (502mm x 400mm x 454mm)</td>
</tr>
<tr>
<td><strong>Transmitter Dimensions (H x W x D)</strong></td>
<td>3-3/4” x 4-7/8” x 3-15/16” (99mm x 124mm x 100mm)</td>
<td>3-3/4” x 4-7/8” x 3-15/16” (99mm x 124mm x 100mm)</td>
</tr>
<tr>
<td><strong>Subwoofer Weight</strong></td>
<td>39 lb (17.7kg)</td>
<td>43 lb (19.5kg)</td>
</tr>
<tr>
<td><strong>Transmitter Weight</strong></td>
<td>0.5 lb (0.2kg)</td>
<td>0.5 lb (0.2kg)</td>
</tr>
</tbody>
</table>

† The Peak Dynamic Power is measured by recording the highest center-to-peak voltage measured across the output of a resistive load equal to minimum impedance of the transducer, using a 50Hz sine wave burst, 3 cycles on, 17 cycles off.