

THANK YOU FOR CHOOSING JBL

For more than 50 years, JBL has been involved in every aspect of music and film recording and reproduction, from live performances to the recordings you play in your home, car or office.

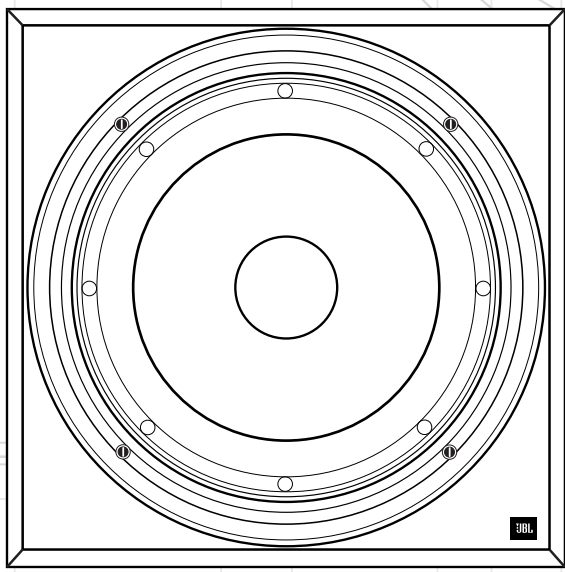
note of enjoyment that you expected – and that when you think about purchasing additional audio equipment for your home, car or office, you will once again choose JBL.

keep you posted on our latest advancements, and helps us to better understand our customers and build products that meet their needs and expectations.

We're confident that the JBL loudspeakers you have chosen will provide every

Please take a moment to complete the enclosed profile card. It enables us to

JBL Consumer Products



X +
0 +
Y²
0
M^{HZ}

X + 0 + Y² 0M^{HZ}
X + 0 + Y²

OWNER'S GUIDE

PRODUCT LINE:	HT SERIES
MODEL NUMBER:	HTPS-400
DESIGN GOAL:	Bring the thrill of live performance and movie sound to the home environment by calling on JBL's professional engineering leadership.
WOOFER TYPE:	Aluminum cone with rubber surrounds
CROSSOVER NETWORK:	THX®-Ultra Certified
ENCLOSURE DESIGN:	Sealed
PROFESSIONAL REFERENCE:	Cinema Loudspeaker Series



READ THIS! Important Safety Precautions!

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION: To prevent electric shock, do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.



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 appliance.

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 are 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, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Do not use attachments not recommended by the product manufacturer, as they may cause hazards.

16. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

17. If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

18. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

19. Do not overload wall outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electric shock.

20. Never push objects of any kind into this product through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

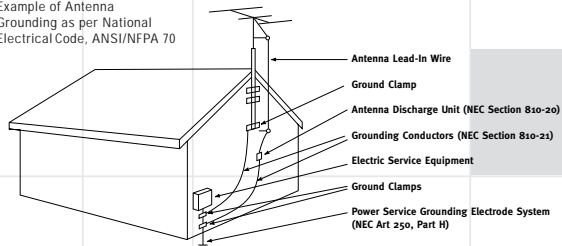
21. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

22. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

23. Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

24. The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

Figure A.
Example of Antenna
Grounding as per National
Electrical Code, ANSI/NFPA 70



UNPACKING

Feet

Your HTPS-400 subwoofer is equipped with 2 sets of feet for use depending on the type of surface the subwoofer will be placed on. Enclosed with this manual is a set of rubber self-adhesive feet for use on hard surfaces, such as wood or tile floors, and a set of spiked feet for use on carpeted surfaces. To install the feet, set the subwoofer gently on a padded surface with the bottom side up. If you are using the rubber

feet, attach them to the four corners of the unit, covering the holes. If you are using the spiked feet, install them by pressing them into the holes. The subwoofer may not perform as well as expected if you neglect to attach the feet.

Grille

Your HTPS-400 subwoofer has been packaged with the grille unattached for shipping purposes. In some applications, such as custom installations, the grille may not be necessary.

In cases where a grille is needed, carefully align the grille pegs with the grommets and insert the grille. The grille is not designed for frequent removal, and cannot be readily removed with bare hands. If for some reason it becomes necessary to remove the grille, it should be pried off very carefully with a small, flat-tipped, jewelers' screwdriver, taking extra care not to damage the baffle or the grille.

SPEAKER PLACEMENT

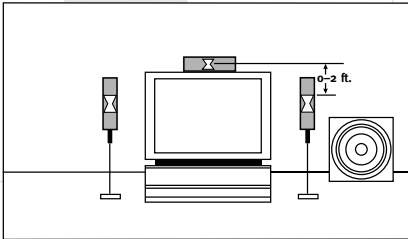
Experiment with placement for the most accurate and uniform bass response throughout the room. It is important to avoid blocking the grille of the subwoofer.

Since the HTPS-400 is video-shielded, it may be placed in proximity to a television monitor.

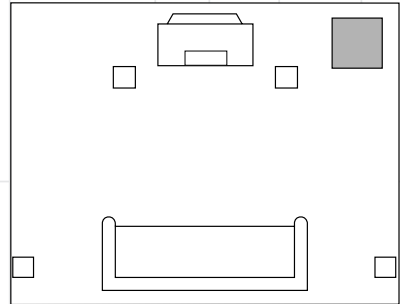
A single HTPS-400 subwoofer meets THX Select requirements for a 3000-cubic-foot room.

However, to meet THX Ultra requirements for a 3000-cubic-foot room, two or more HTPS-400 subwoofers are required. The preamp output featured on the HTPS-400 simplifies the hookup of multiple units (see page 4).

Front view



Top view



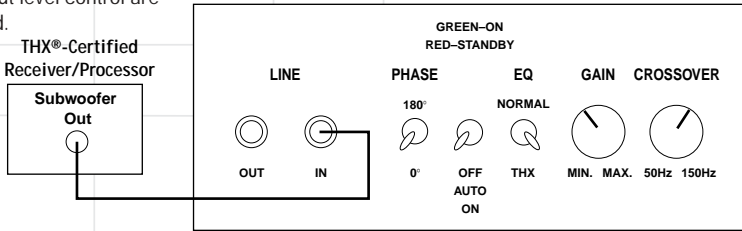
HOOKUP

Line-Level Inputs

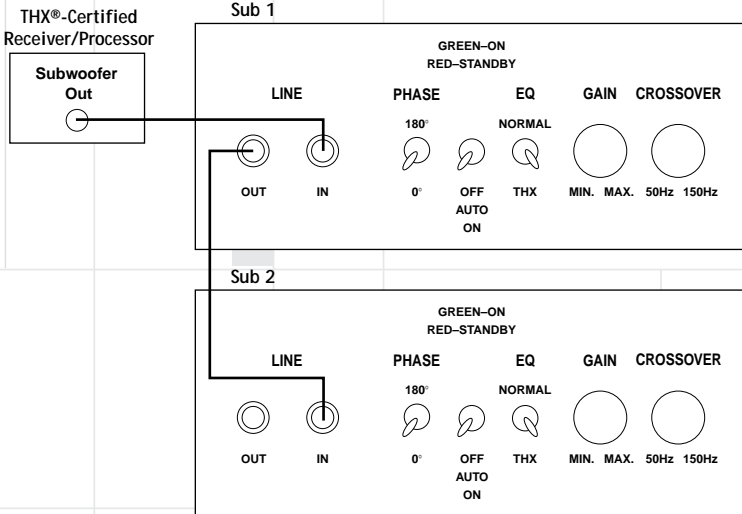
THX Mode:

If your surround processor/receiver is THX-certified:

Note: When the THX/Normal switch is set to "THX," the subwoofer's internal crossover and output level control are bypassed.



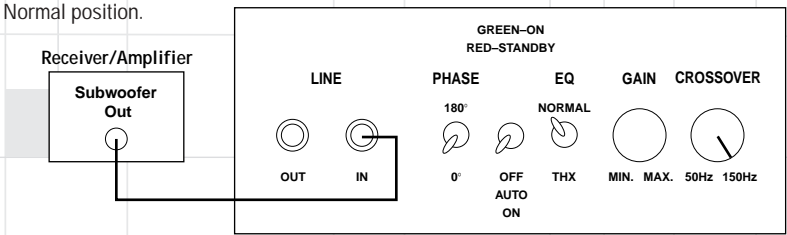
To continue enjoying THX-quality bass response in a very large room, two or more HTPS-400 subwoofers may be connected in series. For every 3000 cu. ft. of room volume, it is recommended that you add one HTPS-400.



Normal Mode:

Use this hookup for all non-THX processors, including Dolby® Digital, DTS®, Dolby Pro Logic® or stereo.

Note: If using Dolby Digital or DTS, set the crossover frequency knob fully clockwise to the maximum position. Make sure the THX/Normal switch is in the Normal position.



Note: Some receivers/processors have stereo subwoofer outputs. In that case, you must use a "Y"-connector (not included) in order to maximize the subwoofer's performance.

OPERATION

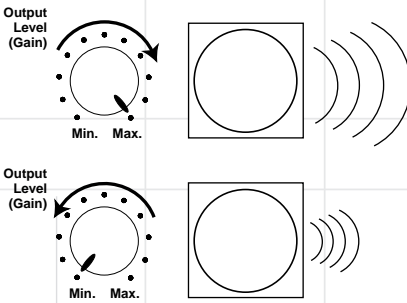
The HTPS-400 contains a signal-sensing auto turn-on/turn-off circuit. This feature will automatically turn the subwoofer on when you turn

your system on with the power switch in the "Auto" position and begin playing any program material. The subwoofer will return to standby mode when

no signal is received for approximately 15 minutes. The power switch's "Off" position is for vacation use only.

Toggle Position	Procedure	LED Color
Off	Power switch off	Red
On	Power switch on and playing program material	Green
Auto	Simply turn off your receiver/processor. The HTPS-400 will turn off after approximately fifteen minutes. The subwoofer will turn on when your receiver/processor begins playing again.	No signal present for more than 15 minutes – Red; signal present – Green

Output Level (Gain) – Normal (non-THX) Modes Only



Note: When the THX/Normal switch is set to "THX," the output (gain) control is bypassed. Output level is then adjusted at the THX processor.

Crossover Frequency – Normal (non-THX) Modes Only

The Crossover Frequency adjustment determines the highest frequency the HTPS-400 will reproduce. It allows a seamless transition from the subwoofer to the

satellite speakers. Experiment with this adjustment to find the crossover frequency that sounds best with your speakers.

Note: When the THX/Normal switch is set to "THX," the internal crossover is bypassed. Crossover frequency is then adjusted at the THX processor.

Phase

The Phase switch is used to adjust the relative polarity of the subwoofer to the other speakers. When the speakers are out of phase, the low-frequency sound waves will cancel each other out, reducing bass response. The HTPS-400 provides a convenient phase switch that allows you to remedy this situation without relocating the speakers or changing any speaker connections. In

normal THX operation, the Phase switch should be set to 0 degrees so that the subwoofer is operating in phase with the main speakers. This should produce a smooth frequency response up to 80Hz. In rare cases when the subwoofer is placed more than 25 feet away from the main speakers, or where the subwoofer is not being used with a THX-certified receiver, or processor, and speakers,

the 180-degree position may provide a smoother frequency response.

Listen to your HTPS-400 subwoofer and main speakers with the switch in the "0°" position, then listen to the same material with the switch set to "180°". Decide which sounds better and leave the switch in this position. Repeat this procedure if you change the location of the subwoofer.

TROUBLESHOOTING

If there is no output from the subwoofer:

- Make sure the system is on and a source is playing.
- Make sure the HTPS-400 is plugged into an active outlet and the power switch is in either the "Auto" or "On" position.
- If you are using a THX-certified processor/receiver, make sure the THX/Normal switch is set to "THX."
- If you are not using a THX-certified processor/receiver, make sure the THX/Normal switch is set to "Normal."
- Adjust the "Output Level" (Gain) control.
- Review proper operation of your receiver/amplifier.
- Check all wires and make sure they are properly connected. Make sure none of the wires are frayed, cut or punctured.
- If you are not using a THX-certified processor/receiver, make sure that you have configured your processor/receiver so that the subwoofer/LFE output is on.

If there is no (or low) bass output:

- Make sure that the subwoofer is plugged into a live electrical outlet and the power switch is in either the "Auto" or "On" position.
- Adjust the "Crossover Frequency."
- Adjust the "Output Level" (Gain) control.
- Change the setting on the Phase switch.
- If you are not using a THX-certified processor/receiver, make sure that you have configured your processor/receiver so that the subwoofer/LFE output is on.

If you are hearing midrange frequencies (such as vocals) through the subwoofer:

- When using the THX mode, make sure the subwoofer crossover is activated on your processor/receiver.
- When using the Normal Mode, adjust the "Crossover Frequency" to a lower frequency.

SPECIFICATIONS

HTPS-400 Powered Subwoofer

Amplifier Power	1000 watts
Driver	12" with aluminum cone and rubber surround, video-shielded
Input	THX and normal line level
Output	Line level (loop through from input)
Crossover Frequency – Normal Mode	50Hz – 150Hz (continuously adjustable)
Frequency Response (Determined by crossover setting)	25Hz – crossover point
Dimensions (H x W x D)	14-5/8" x 14-5/8" x 14-5/8" 371mm x 371mm x 371mm
Weight	62 lb/28kg

Occasional refinements may be made to existing products without notice, but will always meet or exceed original specifications unless otherwise stated.

THX is a registered trademark of Lucasfilm Ltd.

* Trademarks of Dolby Laboratories.

DTS is a registered trademark of Digital Theater Systems, Inc.

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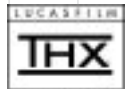
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