

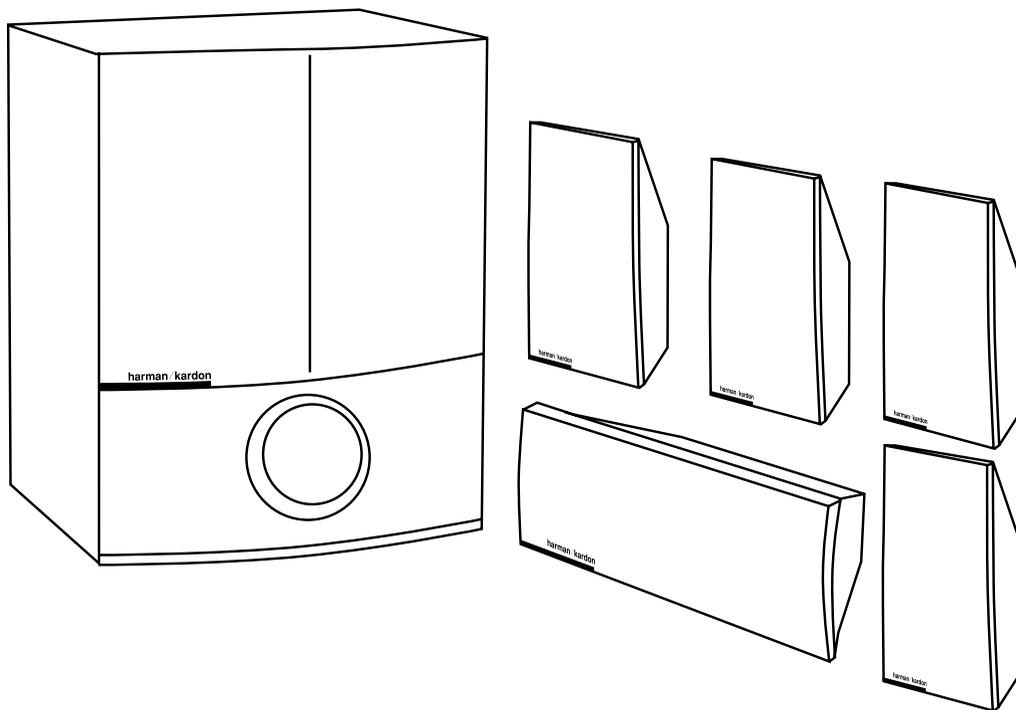
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**harman/kardon®**

**H** A Harman International Company  
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# HKTS 10 Home Theater Speaker System

OWNER'S MANUAL



**harman/kardon®**  
Power for the Digital Revolution.™

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### Typographical Conventions

In order to help you use this manual, certain conventions have been used.

**EXAMPLE** – (bold type) indicates a specific control or rear panel connection on the SUB-TS10 subwoofer

**EXAMPLE** – (OCR type) indicates a control or switch position on the SUB-TS10 subwoofer

**❶** – (number in a circle) indicates a rear panel control or connection on the SUB-TS10 subwoofer

# Read First! Important Safety Precautions!

## CAUTION

### RISK OF ELECTRIC SHOCK DO NOT OPEN

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 Instructions.** All the safety and operating instructions should be read before the product is operated.
- 2. Retain Instructions.** The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings.** All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow Instructions.** All operating and use instructions should be followed.
- 5. Cleaning.** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6. Attachments.** Do not use attachments not recommended by the product manufacturer, as they may cause hazards.
- 7. Water and Moisture.** Do not use this product near water—for example, near a bathtub, wash bowl, kitchen sink or laundry tub; in a wet basement; near a swimming pool; or the like.
- 8. Accessories.** Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- 9. A Product and Cart Combination Should Be Moved with Care.** Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.
- 10. Ventilation.** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation, such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions have been adhered to.



**11. Power Sources.** 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.

**12. Polarization.** This product may be equipped with a polarized alternating-current-line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

**13. Power-Cord Protection.** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

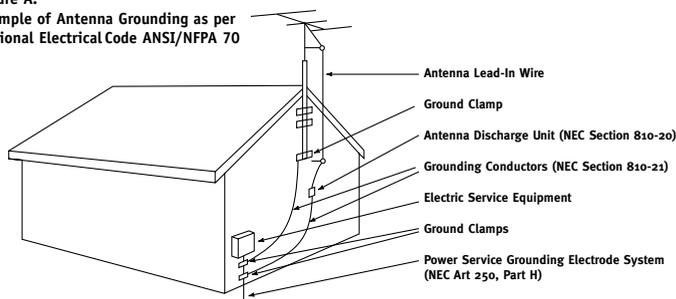
**14. Nonuse Periods.** The power cord of the product should be unplugged from the outlet when left unused for long periods of time.

**15. Outdoor Antenna Grounding.** 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.

**16. Lightning.** For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

**17. Power Lines.** 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.

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



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

**19. Object and Liquid Entry.** 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.

**20. Servicing.** 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.

**21. Damage Requiring Service.** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- The power-supply cord or the plug has been damaged; or
  - Objects have fallen onto, or liquid has been spilled into, the product; or
  - The product has been exposed to rain or water; or
  - The product does not operate normally when following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation; or
  - The product has been dropped or damaged in any way; or
  - The product exhibits a distinct change in performance; this indicates a need for service.
- 22. Replacement Parts.** 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. Safety Check.** 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. Wall or Ceiling Mounting.** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 25. Heat.** The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

## INTRODUCTION

**Thank you** for purchasing the Harman Kardon HKTS 10, with which you are about to begin many years of listening enjoyment. The HKTS 10 has been custom-designed to provide all the excitement and power of the cinema experience in your own living room.

While sophisticated electronics and state-of-the-art speaker components are hard at work within the HKTS 10 to make all of this happen, hookup and operation are simple. Color-keyed connections and simple controls make the HKTS 10 easy to use.

To obtain maximum enjoyment from your new home theater speaker system, we urge you to take a few minutes to read through this manual. This will ensure that connections to your receiver or preamp/processor and amplifier or other external devices are made properly. In addition, a few minutes spent learning the functions of the various controls will enable you to take advantage of all the power and refinement the HKTS 10 is able to deliver.

If you have any questions about this product, its installation or operation, please contact your dealer, the best local source of information.

### Description and Features

The HKTS 10 is a six-piece home theater speaker system that includes a 12-inch, 150-watt, bass-reflex, powered subwoofer; four identical, 2-way, bass-reflex satellite speakers for use in the left and right front and rear speaker positions; a dedicated, dual-driver, bass-reflex center speaker; wall-mount brackets for the four satellites; and all of the speaker cables you need to connect your speakers to your receiver or preamp/processor and amplifier.

The HKTS 10 subwoofer is easy to connect to your system, since it is equipped with a special subwoofer input for use with equipment that has a dedicated subwoofer connection that carries a low-frequency output. It also includes stereo speaker-level inputs and outputs for connection to older receivers and processors that do not have a line-level subwoofer output. Other conveniences include a level control, high-cut (low-pass) filter switch and phase switch for fine-tuning bass response to suit your listening environment and taste, and an efficient switching system that senses the presence of an audio signal and

automatically switches the unit from Standby mode to Active mode.

Wall-mount brackets are included for the satellite speakers, as well as an adjustable support cradle for the center speaker.

Harman Kardon invented the high-fidelity receiver more than forty-seven years ago. With state-of-the-art features and time-honored circuit designs, the HKTS 10 is a perfect complement to a Harman Kardon receiver or any home theater system.

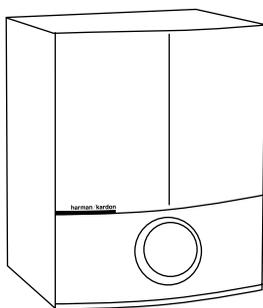
#### ■ Complete Home Cinema Speaker System

#### ■ Speakers Are Magnetically Shielded for Flexible Placement Near Video Monitors

#### ■ Both Line- and Speaker-Level Inputs Offer Compatibility With Most Audio Components

#### ■ Subwoofer Input Offers Superior-Quality Bass Reproduction When Used With Any Digital Audio System That Incorporates Bass Management or Programmable Crossovers

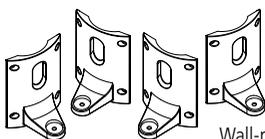
## INCLUDED



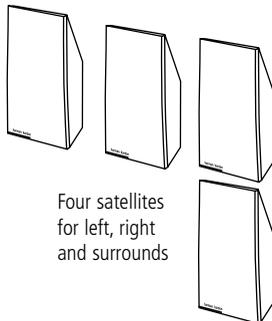
Powered subwoofer



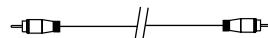
One center channel speaker with adjustable support



Wall-mount brackets



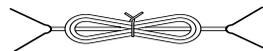
Four satellites for left, right and surrounds



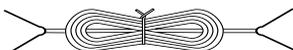
One 15' RCA cable for connection to subwoofer



Two 15' speaker cables for connection to front satellites

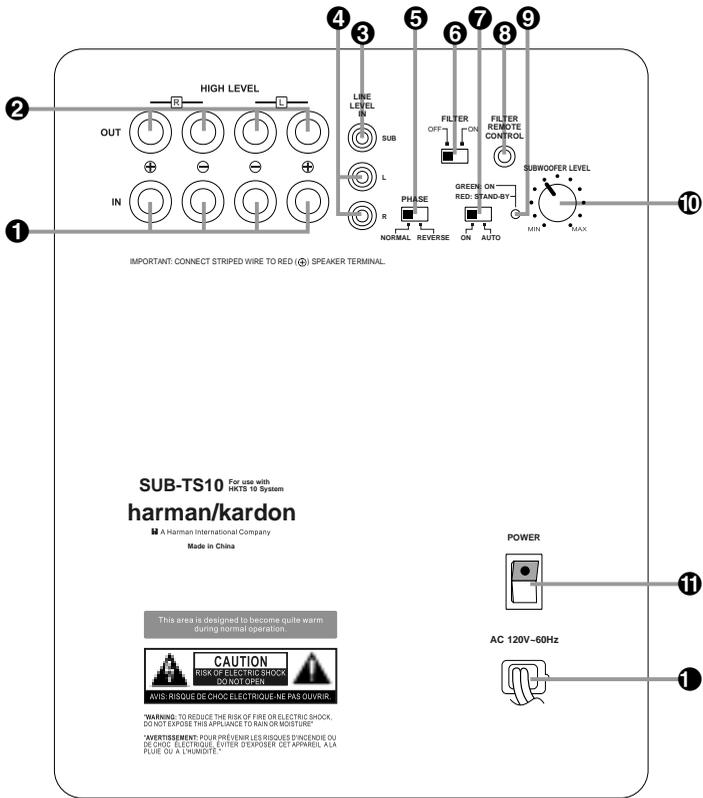


One 20' speaker cable for connection from receiver to center speaker



Two 40' speaker cables for connection from receiver to rear satellites

# SUB-TS10 SUBWOOFER AMPLIFIER PANEL CONTROLS AND CONNECTIONS



- 1 Speaker-Level Inputs
- 2 Speaker-Level Outputs
- 3 Line-Level Subwoofer (SUB) Input
- 4 Line-Level Full-Range Inputs
- 5 Phase Switch
- 6 High-Cut (Low-Pass) Filter Switch
- 7 Music-Sense On/Off Switch
- 8 Filter Remote Control Input
- 9 LED Indicator
- 10 Subwoofer-Level Control
- 11 Master Power Switch
- 12 AC Power Cord

**1 Speaker-Level Inputs:** Connect these binding post terminals to the main left and right speaker terminals of your receiver or amplifier, if your receiver or amplifier does not have a line-level subwoofer output.

Remember to maintain polarity by connecting the (+) terminal on the receiver/amplifier to the (+) terminal on the SUB-TS10 subwoofer, and the (-) terminal on the receiver/amplifier to the (-) terminal on the SUB-TS10 subwoofer.

**2 Speaker-Level Outputs:** If you are using the **Speaker-Level Inputs 1** on the SUB-TS10, you should connect these binding post terminals to your front left and right speakers, remembering to maintain polarity by connecting the (+) terminal on

the SUB-TS10 subwoofer to the (+) terminal on the speaker, and the (-) terminal on the SUB-TS10 subwoofer to the (-) terminal on the speaker. If you are not using the **Speaker-Level Inputs 1**, then connect your front left and right speakers directly to your receiver or amplifier. See pages 11 and 12 for further information.

**3 Line-Level Subwoofer (SUB) Input:** Connect the subwoofer output of a receiver with digital surround sound decoding, such as Dolby\* Digital or DTS® to this input. This input bypasses the SUB-TS10's internal crossover circuitry, and should only be used with a filtered signal. If your receiver does not have digital decoding, you should use the

**Line-Level Full-Range Inputs 4** instead.

**4 Line-Level Full-Range Inputs:** Connect the line-level subwoofer output or preamp output(s) of your receiver or amplifier to these inputs. If your receiver does not have a separate subwoofer output, use a Y-adaptor (not supplied) to bridge the receiver's preamp output to the main amp input for that channel, and connect the long end of the adaptor to the corresponding line-level input on the SUB-TS10. If your receiver has only a single subwoofer output, you may connect it to either the left or right line-level input on the SUB-TS10, and no Y-adaptor is needed.

**5 Phase Switch:** This switch determines whether the SUB-TS10 subwoofer's piston-

## SUB-TS10 SUBWOOFER AMPLIFIER PANEL CONTROLS AND CONNECTIONS

like action moves in and out in phase with the main speakers. If the speakers were to play out of phase, the sound waves produced by the subwoofer would be cancelled out, reducing bass response. This phenomenon depends in part on the relative placement of the speakers in the room. In most cases, the **Phase Switch 6** should be left in the **NORMAL** position. However, it does no harm to experiment with the **Phase Switch 6**, and you may leave it in the position that maximizes bass response.

**6 High-Cut (Low-Pass) Filter Switch:** Placing this switch in the **ON** position activates circuitry that cuts out all audio input signals above 120Hz. This allows the SUB-TS10 to focus its power on reproducing the low-frequency portion of the signal, avoiding inefficiency and distortion. Engage this filter when using the **Speaker-Level Inputs 1**, or when using the **Line-Level Full-Range Inputs 4**, unless your receiver or processor processes its line-level output using a low-pass filter. The filter has no effect when the **SUB Input 3** is used.

**7 Music-Sense On/Off Switch:** When placed in the **AUTO** position, and when the **Master Power Switch 11** is turned on, the SUB-TS10 will automatically turn itself on or place itself in the Standby mode, depending on whether it is receiving an audio signal. When this switch is placed in the **ON** position, the SUB-TS10 will remain on, whether or not it is receiving an audio signal.

**8 Filter Remote Control Input:** This input accepts a remote control signal from a compatible Harman Kardon A/V receiver that enables you to override the **High-Cut**

**(Low-Pass) Filter Switch 6**, by signaling the SUB-TS10 to engage the filter even when the switch is in the **OFF** position.

**9 LED Indicator:** This LED indicates whether the SUB-TS10 is in the **ON** or **STANDBY** state when used with the **Music-Sense On/Off Switch 7** in the **AUTO** position. The LED is lit Green to indicate that the SUB-TS10 is receiving an audio signal and is turned on, and the LED is lit Red to indicate that no signal is being received and the SUB-TS10 is in Standby mode.

When the **Music-Sense On/Off Switch 7** is in the **ON** position, the LED will be lit Green, whether or not an audio signal is present.

When the **Master Power Switch 11** is turned off, the LED goes dark, no matter which position the **Music-Sense On/Off Switch 7** is in.

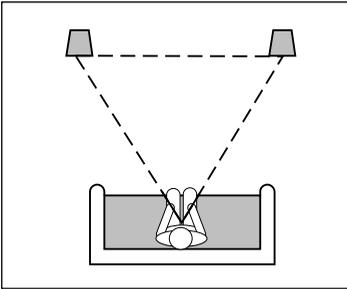
**10 Subwoofer-Level Control:** Volume can be adjusted using the **Subwoofer-Level Control**. Turn the control clockwise to increase the SUB-TS10's volume, or counterclockwise to decrease it.

**11 Master Power Switch:** Place this switch in the "•" position to power-on the SUB-TS10 subwoofer. The SUB-TS10 will then be either in the Standby mode or completely on, depending on the position of the **Music-Sense On/Off Switch 7**.

**1 AC Power Cord:** Make sure to plug this cord into an active, unswitched electrical outlet for proper operation of the SUB-TS10. The cord should not be plugged into the accessory outlets found on some audio components.

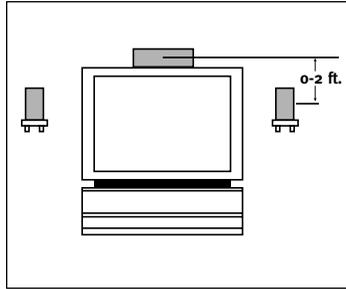
# SPEAKER PLACEMENT

## Front Speakers



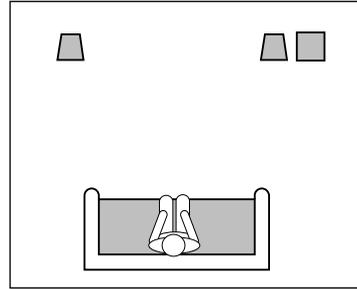
The front speakers should be placed the same distance from each other as they are from the listening position. They should be placed at about the same height from the floor as the listeners' ears will be, or they may be angled toward the listeners. The elegant contoured design of the satellite speaker enclosure allows the speaker to be placed on a lower shelf and tilted upward toward the listener simply by positioning the speaker back onto its tilted surface.

## Center Channel Speaker



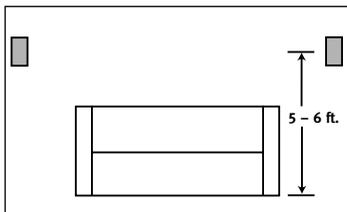
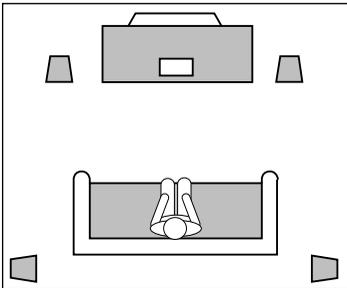
The center channel speaker should be placed slightly behind the front left and right speakers, and no more than two feet above or below the tweeters of the left and right speakers. It is often convenient to set the center speaker on top of the television set, as shown in the drawing. The center speaker uses a supplied adjustable support cradle inserted into holes on its bottom to enable you to adjust the tilt of the speaker to aim it towards the listening area.

## Subwoofer



The low-frequency material reproduced by the subwoofer is mostly omnidirectional, and this speaker may be placed in a convenient location in the room. However, the maximum reproduction of bass will be heard when the subwoofer is placed in a corner along the same wall as the front speakers. Experiment with subwoofer placement by temporarily placing the subwoofer in the listening position and moving around the room until the bass reproduction is best. Place the subwoofer in that location.

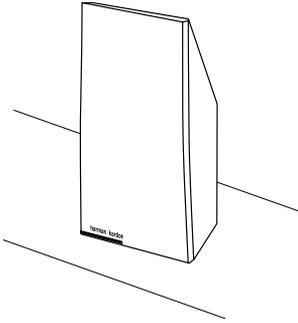
## Surround Speakers



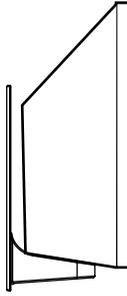
The two surround speakers should be placed slightly behind the listening position and, ideally, should face each other and be at a level higher than the listeners' ears. If that is not possible, they may be placed on a wall behind the listening position, facing forward. The surround speakers should not call attention to themselves. Experiment with their placement until you hear a diffuse, ambient sound accompanying the main-program material heard in the front speakers.

## MOUNTING OPTIONS

### Satellites and Surrounds

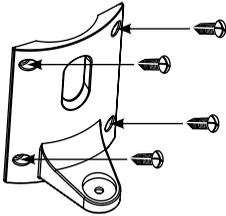


The satellite speakers may be placed on a shelf. They may be tilted upwards simply by tilting them back onto their sculpted surfaces.



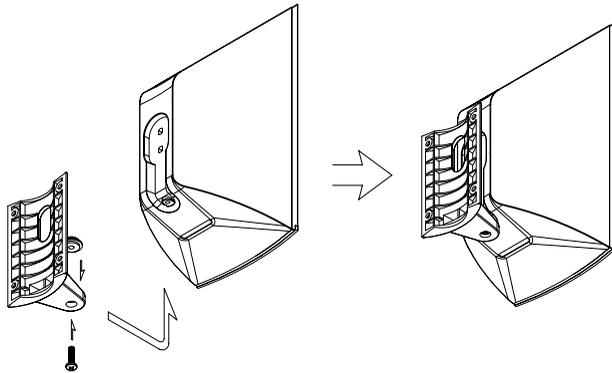
They may be wall-mounted using the supplied brackets.

### Wall-Mounting



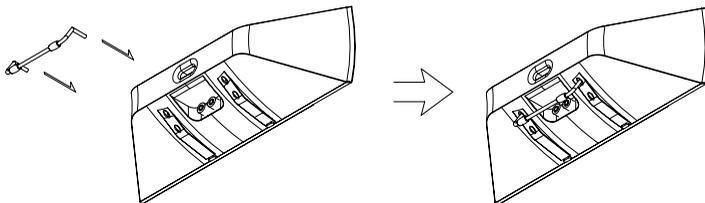
Attach bracket to wall. If possible, position the speakers so that the mounting screws used connect directly to a wooden wall stud. If that is not possible, use optional wall anchors that are rated to support at least twenty-five pounds.

The customer is responsible for proper selection and use of mounting hardware, available through hardware stores, to properly and safely wall-mount the speakers.



Insert knob into bracket as shown, then place speaker on bracket and secure it from below using the supplied screw.

### Center Speaker



With the longest side down, insert the support cradle's pegs fully into either the front or rear pair of holes on the bottom of the center speaker. The front holes will tilt the speaker slightly downward toward the listener, while the rear holes will hold the speaker straight.

## SPEAKER CONNECTIONS

### Speaker-Level Connection Guide



**IMPORTANT NOTE:** Before making speaker connections, be certain that your receiver or audio power amplifier is turned off and preferably unplugged from its AC power source. The SUB-TS10 subwoofer should not be connected to an AC power source until all speaker wire connections have been made.

Separate and strip the ends of the speaker wire as shown. Speakers and electronics terminals have corresponding (+) and (–) terminals. Most manufacturers of speakers and electronics, including Harman Kardon, use red to denote the (+) terminal and black for the (–) terminal.

Newer Harman Kardon receivers conform to the new CEA standard and therefore use a color other than red or black for the (+) terminal to indicate some speaker positions: e.g., surround left. Please see the owner's guide for your AVR Series receiver for further details.

The (+) lead of the speaker wire is noted with a stripe. It is important to connect both speakers identically: (+) on the speaker to (+) on the amplifier and (–) on the speaker to (–) on the amplifier. Wiring "out of phase" results in thin sound, weak bass and a poor stereo image.

With the advent of multichannel surround sound systems, connecting all of the speakers in your system with the correct polarity remains equally important in order to preserve the proper ambience and directionality of the program material.

To connect the supplied speaker wires to the satellite and center speaker terminals, unscrew the binding-post collar until the pass-through hole in the center post is visible under the collar. Insert the bare end of the wire through this hole; then screw the collar down until the connection is tight. The hole in the center of each collar is intended for use with banana-type connectors.

## SPEAKER CONNECTIONS (continued)

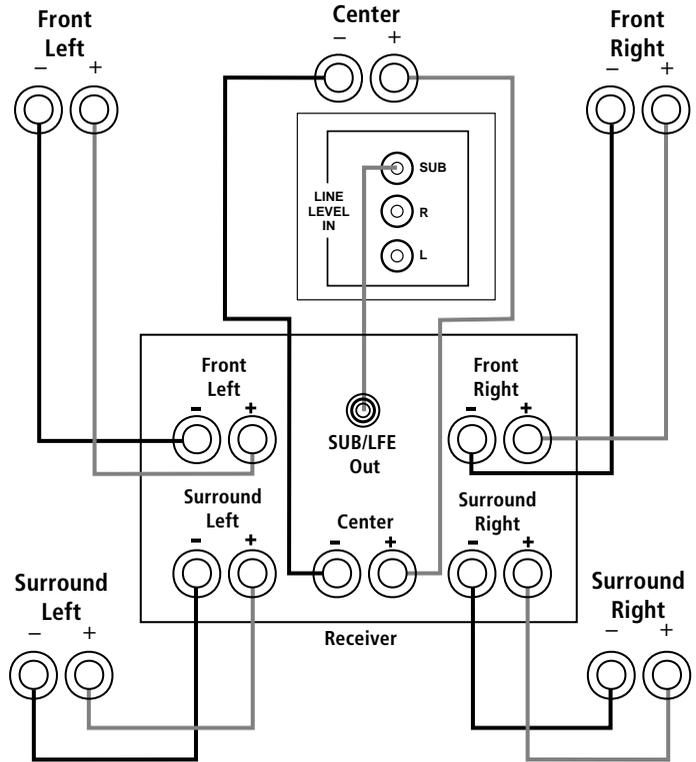
### Dolby Digital or DTS (or other Digital Surround Mode) Connection

USE THIS INSTALLATION METHOD FOR DOLBY DIGITAL, DTS OR OTHER DIGITAL SURROUND PROCESSORS:

Use the line-level input jack marked **SUB**  for the Low-Frequency Effects channel. Connect this jack to the subwoofer output or LFE output on your receiver or amplifier. Connect each speaker to the corresponding speaker terminals on your receiver or amplifier.

Make sure that you have configured your surround sound processor for "Subwoofer On." The front left, front right, center and rear surround speakers should all be set to "Small."

When all connections have been made, plug the AC power cord on the subwoofer into an AC outlet.



## SPEAKER CONNECTIONS (continued)

### Dolby Pro Logic (Non-Digital) – Line Level

USE THIS INSTALLATION METHOD FOR DOLBY PRO LOGIC APPLICATIONS (NOT DOLBY DIGITAL, DTS OR OTHER DIGITAL PROCESSING), WHERE THE RECEIVER/PROCESSOR IS EQUIPPED WITH A SUBWOOFER OUTPUT, OR A VOLUME-CONTROLLED PREAMP (LINE-) LEVEL OUTPUT:

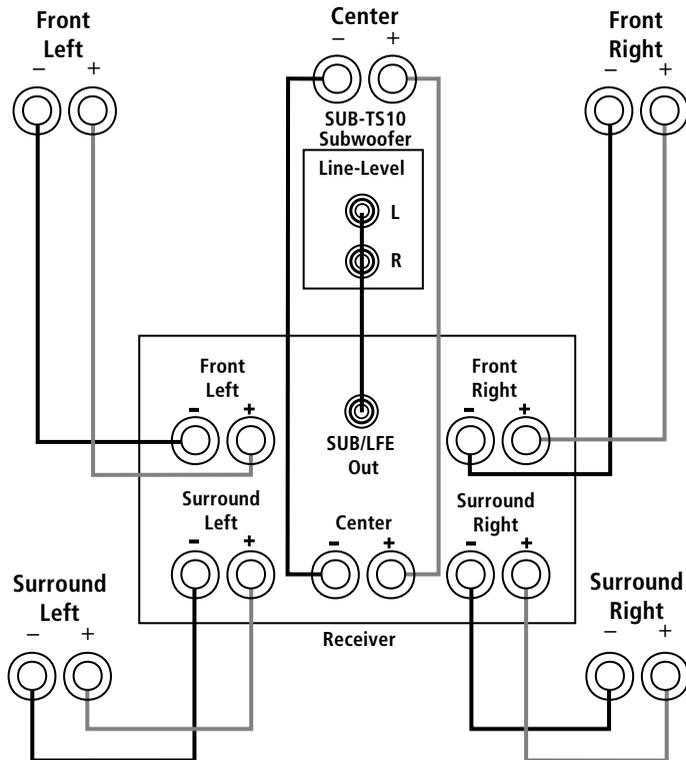
Use the supplied RCA-type patch cord to connect the line-level subwoofer output on your receiver or amplifier to either the left or right **Line-Level Full-Range Input ④** on the SUB-TS10 subwoofer. Use both the left and right inputs on the subwoofer if your receiver or processor has both left and right line-level outputs.

If your receiver is equipped with line-level outputs but does not have a separate subwoofer output, use a Y-adaptor (not supplied) to bridge the receiver's preamp output to the main amp input for that channel, and connect the long end of the adaptor to the corresponding line-level input on the SUB-TS10.

**IMPORTANT:** Do not use the **SUB Input ③** on the subwoofer with Dolby Pro Logic processors. Make sure that you have configured your surround sound processor for "Subwoofer On." The front left, front right, center and rear surround speakers should all be set to "Small."

When all connections have been made, plug the AC power cord on the subwoofer into an AC outlet.

Connect each speaker to the corresponding speaker terminals on your receiver or amplifier.



## SPEAKER CONNECTIONS (continued)

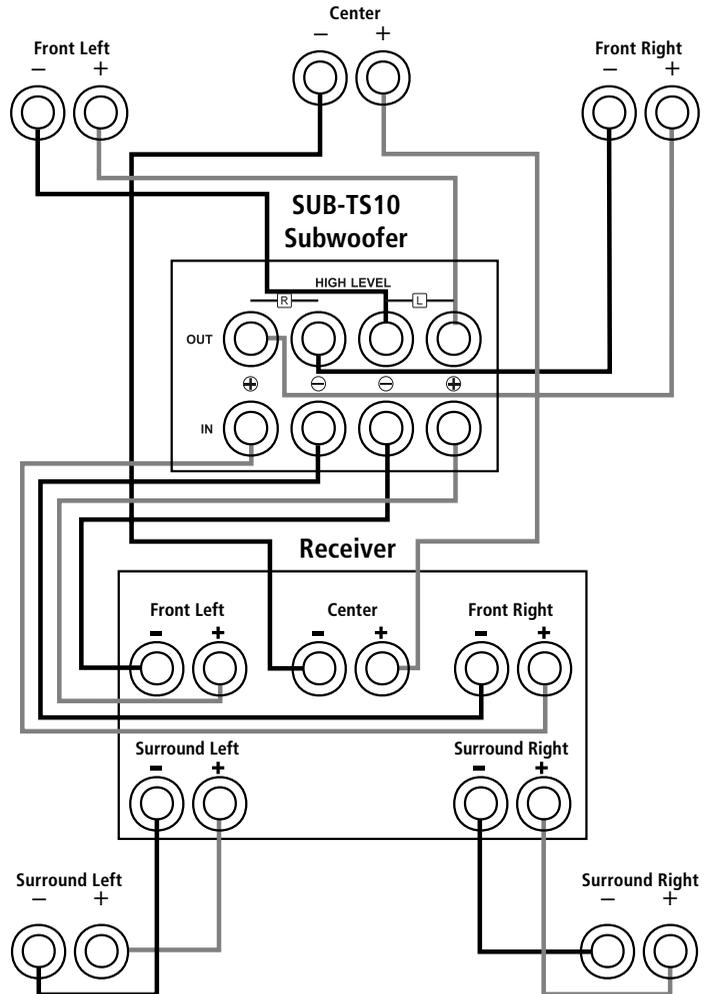
### Dolby Pro Logic\* (Non-Digital) – Speaker Level

USE THIS INSTALLATION METHOD FOR DOLBY PRO LOGIC APPLICATIONS (NOT DOLBY DIGITAL, DTS OR OTHER DIGITAL PROCESSING), WHERE THE RECEIVER/PROCESSOR DOES NOT HAVE A SUB-WOOFER OUTPUT, OR A VOLUME-CONTROLLED PREAMP (LINE-) LEVEL OUTPUT:

Connect your receiver or amplifier's front left and right speaker terminals to the left and right **Speaker-Level Input 1** terminals on the SUB-TS10 subwoofer that are marked "High Level In." Connect the left and right **Speaker-Level Output 2** terminals on the SUB-TS10 subwoofer that are marked "High Level Out" to the corresponding terminals on the back of your front left and right speakers.

Connect your receiver or amplifier's center, and surround left and right speaker terminals to the corresponding terminals on the back of your center, and surround left and right speakers.

When all connections have been made, plug the AC power cord on the subwoofer into an AC outlet.



## OPERATION

Move the **Master Power Switch ①** (marked **Power**) to the “●” (On) position. The SUB-TS10 subwoofer will automatically turn itself on or go into Standby mode, depending on whether or not a signal is being sent to it by your receiver or surround processor, and provided that the **Music-Sense On/Off Switch ⑦** is moved to the right so that it is in the **AUTO** position.

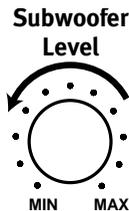
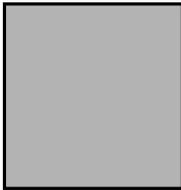
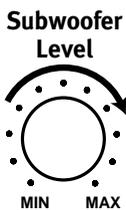
When your receiver or amplifier is off, or is not sending program material to the subwoofer, the subwoofer will be in Standby mode and the **LED Indicator ⑨** on the amp panel will turn red. When the subwoofer senses an audio signal, it will automatically turn itself on and the **LED Indicator ⑨** will turn green. If the subwoofer does not sense a signal after approximately twenty minutes, it will automatically go into Standby mode.

When the **Music-Sense On/Off Switch ⑦** is switched to the **ON** position, the subwoofer will remain on, whether or not program material is playing.

If you will be away from home for an extended period of time, or if the subwoofer will not be used, switch the **Master Power Switch ①** to the **OFF** position.

## Volume

Volume can be adjusted using the **Subwoofer-Level Control ⑩**, as shown below.



## Additional Bass Adjustments

In addition to the volume adjustments described above, the SUB-TS10 subwoofer includes a **Phase Switch ⑤** and a **Filter Switch ⑥** that can be used to adjust the bass response to suit your listening environment or taste.

In most situations, the **Phase Switch ⑤** should be left in the **NORMAL** position. If you suspect that the subwoofer is playing out of phase with the other speakers, which would tend to diminish bass response, try placing this switch in the **REVERSE** position. There is no harm in experimenting, and you may return the switch to the **NORMAL** position at any time. If you rearrange your room and reposition the speakers, it would be a good idea to check whether they are in phase by flipping this switch.

The **High-Cut (Low-Pass) Filter Switch ⑥** limits the frequencies of the audio signal inputted to the subwoofer to the low frequencies that the subwoofer reproduces best. This allows the subwoofer to perform more efficiently, and with superior bass reproduction, minimizing distortion that might occur if the subwoofer attempted to reproduce higher frequencies. This switch should be left in the **ON** position, **except**:

1. When the **SUB Input ③** is being used, in which case it has no effect, or
2. When the **Speaker-Level Inputs ②** or the **Line-Level Full-Range Inputs ④** are being used with a crossover or filter on board the receiver or processor. In these two circumstances, place the switch in the **OFF** position.

## TROUBLESHOOTING

### If there is no sound from any of the speakers:

- Check that receiver/amplifier is on and a source is playing.
- Check that the powered subwoofer is plugged in and its **Master Power Switch** **ⓘ** is switched on to the “●” position.
- Check all wires and connections between receiver/amplifier and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
- Review proper operation of your receiver/amplifier.

### If there is no sound coming from one speaker:

- Check the “Balance” control on your receiver/amplifier.
- Check all wires and connections between receiver/amplifier and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured, and that no wires are touching each other.
- In Dolby Digital or DTS mode, make sure that the receiver/processor is configured so that the speaker in question is enabled.
- Turn off all electronics and switch the speaker in question with one of the other speakers that is working correctly. Turn everything back on, and determine whether the problem is in the same place: i.e., the speaker that was working previously now has no sound and the speaker that was not working now sounds fine; or whether it has moved: i.e., the speaker that was not working still has no sound and the speaker that was working is still fine. If the problem is in the same place, the source of the problem is most likely with your receiver or amplifier, and you should consult the owner’s manual for that product for further information. If the problem has followed the speaker, consult your dealer for further assistance or, if that is not possible, visit our Web site at [www.harmanardon.com](http://www.harmanardon.com) for further information.

### If there is no sound from the center speaker:

- Check all wires and connections between receiver/amplifier and speaker. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
- If your receiver/processor is set in Dolby Pro Logic mode, make sure the center speaker is not in phantom mode.
- If your receiver/processor is set in Dolby Digital or DTS mode, make sure the receiver/processor is configured so that the center speaker is enabled.

### If the system plays at low volumes but shuts off as volume is increased:

- Check all wires and connections between receiver/amplifier and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
- If more than one pair of main speakers is being used, check the minimum impedance requirements of your receiver/amplifier.

### If there is low (or no) bass output:

- Make sure the SUB or line-level inputs of the SUB-TS10 subwoofer and SUB or LFE output of your receiver or amplifier are properly connected by the RCA-type patch cord.
- If you are using the SUB-TS10’s speaker-level inputs, check your speaker cables to make sure they are all connected; that none of the wires are frayed, cut or punctured; and that you have maintained the correct polarity by connecting positive terminals to positive terminals, and negative terminals to negative terminals.
- Make sure the subwoofer is plugged into an active electrical outlet and its **Master Power Switch** **ⓘ** is switched on to the “●” position.
- Check the speaker setup (bass management) settings in your AVR receiver or processor to make certain that the front, center and surround speakers are configured for “Small,” and that the subwoofer is set for “Yes” or “On.”

### If there is no sound from the surround speakers:

- Check all wires and connections between receiver/amplifier and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
- Review proper operation of your receiver/processor and its surround sound features.
- Make sure the movie or TV show you are watching is recorded in a surround sound mode. If it is not, check to see whether your receiver/processor has other surround modes you may use.
- In Dolby Digital or DTS mode, make sure your receiver/processor is configured so that the surround speakers are enabled.
- Review the operation of your DVD player and the jacket of your DVD to make sure that the DVD features the desired Dolby Digital or DTS mode, and that you have properly selected that mode using both the DVD player’s menu and the DVD disc’s menu.

## SPECIFICATIONS

### HKTS 10 System

**Frequency Response**  
35Hz – 20kHz (–6dB)

### SAT-TS10 Satellites

**Recommended Power**  
10 – 110 watts

**Impedance**  
8 ohms nominal

**Sensitivity**  
86dB @ 1 watt/1 meter

**Tweeter**  
One 1" dome, video-shielded

**Midrange**  
One 4" driver, video-shielded

**Dimensions (H x W x D)**  
10-1/8" x 5-1/4" x 5-3/8"  
257mm x 133mm x 137mm

**Weight**  
6.6 lb/3.0kg

### CEN-TS10 Center

**Recommended Power**  
10 – 110 watts

**Impedance**  
8 ohms nominal

**Sensitivity**  
86dB @ 1 watt/1 meter

**Tweeter**  
One 1" dome, video-shielded

**Midrange**  
Dual 4" drivers, video-shielded

**Dimensions (H x W x D)**  
5-1/16" x 16-1/2" x 5-3/16"  
128mm x 418mm x 131mm

**Weight**  
10 lb/4.5kg

### SUB-TS10 Subwoofer

**Amplifier**  
150 watts RMS

**Bass**  
12" woofer, bass-reflex enclosure

**Dimensions (H x W x D)**  
20-5/16" x 16-3/8" x 15-1/16"  
515mm x 416mm x 382mm

**Weight**  
40 lb/18.0kg

All features and specifications are subject to change without notice.

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