

HKTS 60BQ/230

Home Theater Speaker System


Owner's Manual



ENGLISH



harman/kardon
by HARMAN

Important Safety Instructions

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, 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.

 <p style="font-size: small;">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.</p>	<p>CAUTION</p> <p style="font-size: x-small;">RISK OF ELECTRIC SHOCK DO NOT OPEN</p> <p style="font-size: x-small;">WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.</p>	 <p style="font-size: x-small;">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.</p>
SEE MARKING ON BACK OF PRODUCT.		

harman kardon® HKTS 60BQ/230

Typographical Conventions

We have employed certain conventions to help you use this manual:

1 – (number in an oval) indicates a rear-panel control or connector on the illustration of the HKTS 210SUB subwoofer.

Example (bold type) – indicates the name of a specific control or rear-panel connector on the HKTS 210SUB subwoofer.

EXAMPLE (OCR type) – indicates a control or switch setting on the HKTS 210SUB subwoofer.

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Introduction

Thank you for purchasing the harman kardon HKTS 60BQ speaker system, with which you're about to begin many years of listening enjoyment. The HKTS 60BQ 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 60BQ, hookup and operation are simple. Color-keyed cables and connections, and simple controls make the HKTS 60BQ 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 help ensure that the connections you make to your receiver (or preamp/processor), amplifier and other devices are correct. 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 60BQ is able to deliver.

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

Description and Features

The HKTS 60BQ is a complete six-piece home theater speaker system that includes:

- A 200-watt powered subwoofer with an 8-inch (200mm) low-frequency transducer
- Four identical two-way video-shielded dual-driver satellite speakers for the left and right front, and left and right rear (surround) speaker positions
- A dedicated, voice-matched, video-shielded, dual-driver center speaker
- Removable bases and wall-mount brackets for the satellite speakers and a wall-mount bracket for the center speaker
- All of the cables you need to connect all of the speakers to your receiver or preamp/processor and amplifier.

The speaker cables all use a color-coding system to conform to the Consumer Electronics Association (CEA®) standard. This color-coding system minimizes confusion when connecting the speakers, especially when the HKTS 60BQ system is used with a harman kardon receiver.

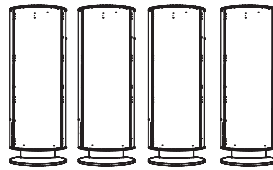
We have equipped the HKTS 210SUB subwoofer with a special input (labeled LFE) that simplifies connection to receivers and preamp/processors with dedicated subwoofer outputs that carry low-frequency signals. Other conveniences include a level control, a phase switch for fine-tuning bass response to suit your listening environment and taste, and an efficient switching system that senses the presence of an audio signal and automatically switches the subwoofer from standby mode to on.

We have included wall-mount brackets for the satellite and centre speakers and shelf stands for the satellite speakers. Optional HTFS 3 floor stands are available separately from your harman kardon dealer.

harman kardon invented the high-fidelity receiver fifty years ago. With state-of-the-art features and time-honored circuit designs, the HKTS 60BQ is a perfect complement to a harman kardon receiver, or any home theater system.

Included Items

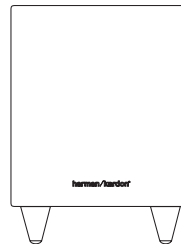
Four satellite speakers for front left/right and surround left/right



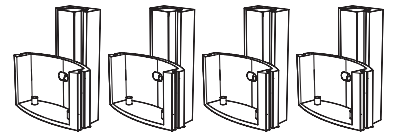
One center speaker



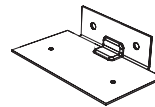
One powered subwoofer



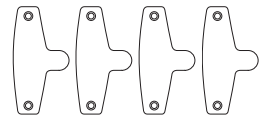
Four wall-mount brackets for satellite speakers



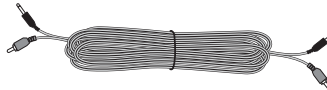
One wall-mount bracket for center speaker



Four metal stop plates and screws (for satellite speaker wall-mount brackets)



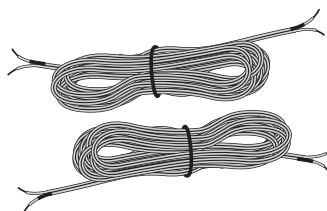
One combination LFE and trigger cable for connection to the subwoofer (LFE cable has purple connectors)



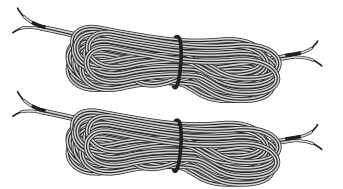
One 4-meter (13.1-foot) speaker cable for center speaker (green color bands)



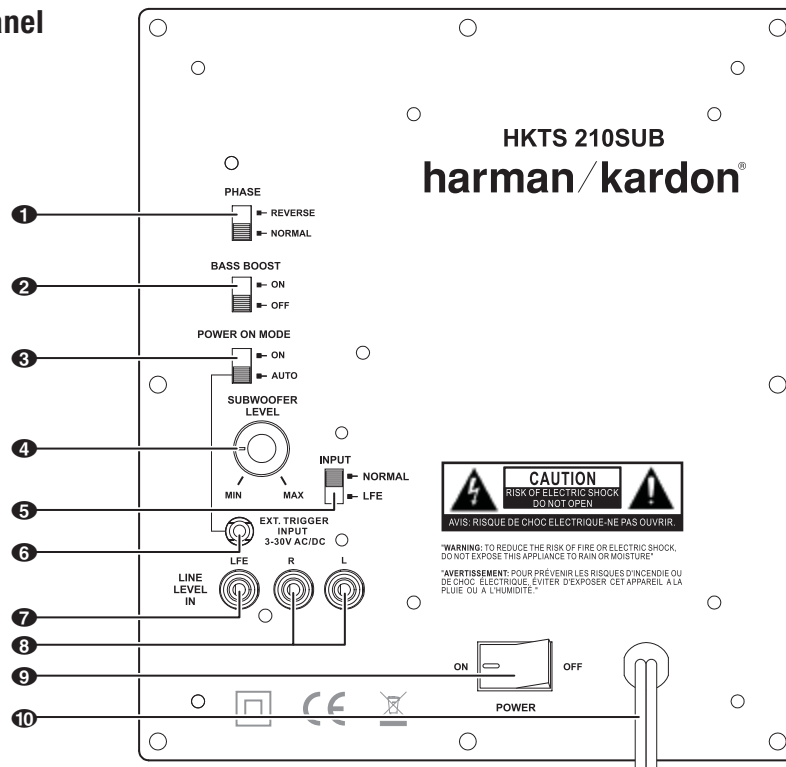
Two 5-meter (16.4-foot) speaker cables for front satellites (red and white color bands)



Two 10-meter (32.8-foot) speaker cables for rear satellites (gray and blue color bands)



HKTS 210SUB Rear-Panel Connections



1 Phase switch: The **Phase switch 1** determines whether the HKTS 210SUB's piston-like action moves in and out in phase with the satellite speakers. If the subwoofer were to play out of phase with the satellite speakers, the sound waves produced by the subwoofer could be canceled out, reducing bass performance and sonic impact. This phenomenon depends in part on the relative placement of all the speakers in the room. In most cases the **Phase switch 1** should be left in the **NORMAL** position. However, it does no harm to experiment, and you can leave the **Phase switch 1** in the position that maximizes bass response and impact.

2 Bass Boost switch: Set this switch to **ON** to enhance the HKTS 210SUB's low-frequency performance. Set this switch to **OFF** for normal low-frequency performance.

3 Power On Mode switch: If this switch is set in the **AUTO** position and the **Power switch 9** is set to **ON**, the HKTS 210SUB will automatically turn itself on when it receives an audio signal and will enter the standby mode once no audio signal has been received for about 15 minutes. When this switch is set in the **ON** position, the HKTS 210SUB will remain on whether or not it is receiving an audio signal. An LED on the HKTS 210SUB's top panel indicates whether the subwoofer is in the on or standby state:

- When the LED glows white, the HKTS 210SUB is turned on.
- When the LED is not illuminated, the HKTS 210SUB is in standby mode.

When the **Power switch 9** is set to **OFF**, the LED will not be illuminated, no matter what setting the **Power On Mode switch 3** is in.

4 Subwoofer Level control: Use this control to adjust the HKTS 210SUB's volume. Turn clockwise to increase the volume; turn counterclockwise to decrease the volume.

5 Input Mode switch: When this switch is in the "Normal" setting, the input signal from the **Line-Level L/R In connectors 8** is active. When this switch is in the "LFE" setting, the input signal from the **Line-Level LFE In connector 7** is active.

6 External Trigger input: Use the mini-plug of the supplied combination LFE and trigger cable to connect the **External Trigger input** to the trigger output of another compatible component. Whenever a trigger signal between 3V and 30V (AC or DC) is detected by the HKTS 210SUB, its amplifier will turn on. The HKTS 210SUB's amplifier will turn off after the trigger signal ceases. (This will occur even when the **Power On Mode switch 3** is in the **AUTO** position.)

7 Line-Level LFE In connector: The signal from this connector bypasses the subwoofer's internal low-pass crossover. When you're connecting the subwoofer to the dedicated subwoofer output of a receiver/processor that has its own low-pass crossover network, use the **Line-Level LFE In connector 7** and set the subwoofer's **Input Mode switch 5** in the "LFE" position.

8 Line-Level L/R In connectors: The signals from these connectors pass through the subwoofer's internal low-pass crossover. When you're connecting the subwoofer to the preamp or subwoofer outputs of a receiver/processor that does not have its own low-pass crossover network, use both **Line-Level L/R In connectors 8** and set the **Input Mode switch 5** in the "Normal" position. If your receiver/processor has only one subwoofer output, you can use either the L or R connector.

9 Power switch: Set this switch in the **ON** position to turn the HKTS 210SUB on. The subwoofer will then either be on or in standby mode, depending on the setting of the **Power On Mode switch 3**.

10 Power cord (non-detachable): After you have made and verified all subwoofer and speaker connections described in this manual, plug this cord into an active, *unswitched* electrical outlet for proper operation of the HKTS 210SUB. **DO NOT** plug this cord into the accessory outlets found in some audio components.

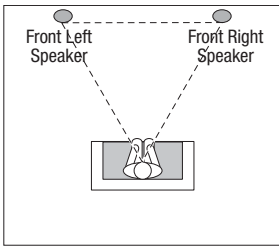
Color-Coding System

The HKTS 60BQ use the channel color-coding system established by the CEA to make setting up your home theater speaker system as easy as possible. The HKTS 60BQ systems include speaker wires with color bands on each end.

Speaker Position	Wire Color Band
Front Left	White
Front Right	Red
Center	Green
Surround Left	Blue
Surround Right	Gray
Subwoofer	Purple

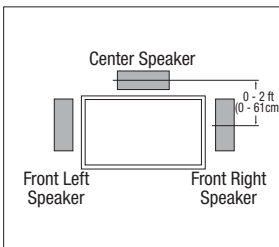
Speaker Placement

Placing the Front Speakers



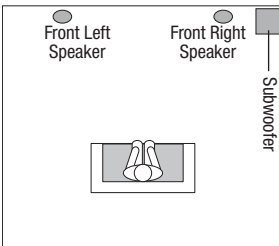
The front speakers should be placed the same distance from each other as they are from the listening position. They should be placed at about the same height from the floor as the listener's ears will be. They also can be angled toward the listener.

Placing the Center Speaker



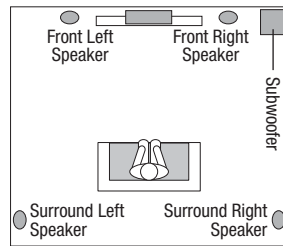
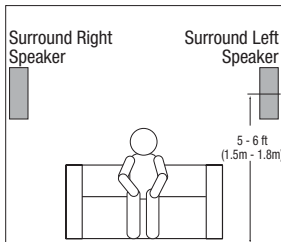
The center speaker should be placed slightly behind (farther away from the listener) the front left and right speakers. Its center should be no more than 2 feet (61cm) above or below the tweeters of the front left and right speakers. If you have a CRT television, it may be convenient to set the center speaker on top of the television set.

Placing the Subwoofer



Since our ears do not hear directional sound at the low frequencies where the subwoofer operates, it will have good performance from just about any location in your room. However, the best bass reproduction is likely to be heard when the subwoofer is placed in a corner along the same wall as the front left and right speakers. You can experiment with subwoofer placement 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 and listen until you find the location where the bass performance is best. Place the subwoofer in that location.

Placing the Surround Speakers



The two surround speakers should be placed slightly behind the listening position, facing each other and, ideally, should be 5–6 feet (1.5m–1.8m) from the floor. An alternate location would be on a wall behind the listening position, facing forward. The surround speakers should not call attention to themselves while they're playing. Experiment with their placement until you hear a diffuse, ambient sound accompanying the program material heard from the front left and right and center speakers.

Mounting Options for Satellite and Centre Speakers

Shelf Placement

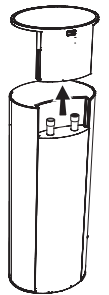
You can place the satellite and centre speakers on shelves. The satellite speakers have built-in bases for shelf placement. You can also remove the bases.

To remove a satellite speaker's base, pull it straight off the speaker, as shown in the illustration. Applying even pressure to both sides of the base will allow it to slide off smoothly.

Apply Pressure Evenly to Both Sides of Base



Lift Base Straight off Speaker



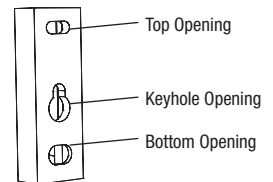
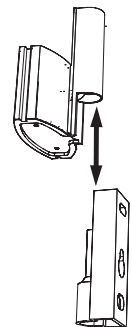
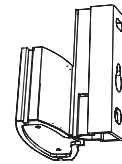
Wall-Mounting: Satellite Speakers

IMPORTANT: Read the *Speaker Connections* section, on page 8, before wall-mounting the satellite speakers. You will need to insert the speaker wires through the wall-mount brackets and connect the wires to the speakers during the process of installing the brackets.

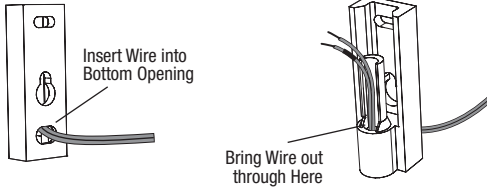
NOTE: If you are using your own speaker wire, it must be no thicker than the wire supplied with the speakers. Thicker wire will prevent the bracket from sliding onto the speaker.

1. Decide on the location for the speaker.
2. Remove the speaker's base as explained in Shelf Placement, above.
3. Disassemble the wall-mount bracket by sliding the two sections apart, as shown in the illustration.
4. Attach the wall portion of the wall-mount bracket onto the wall using hardware that is appropriate for the wall's construction and materials. We recommend first anchoring the bracket using its keyhole, then attaching it with another anchor through its top opening, as shown in the illustration. Note that the satellite speakers weigh 1.55kg (3.4 lb). Be sure to use hardware that can support this weight.

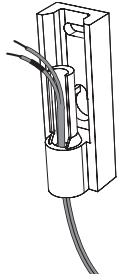
Pull Sections Apart



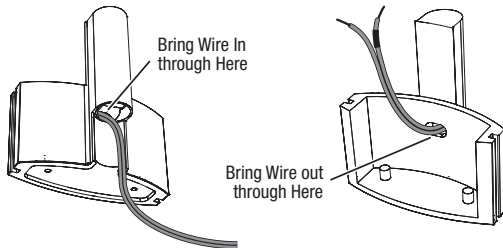
NOTE: If you're running the speaker wire through the wall, you can bring it out directly behind the bracket location and insert it through the bottom opening in the wall portion of the bracket, as shown in the illustration. Running the wire in this way will keep the wire completely hidden from view once the installation is complete.



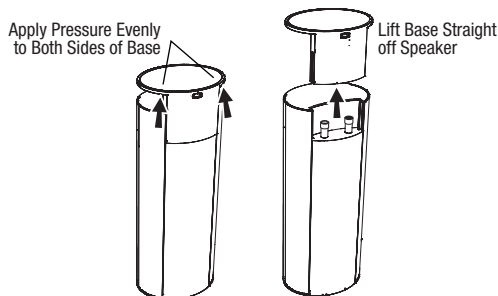
- If you're not running the speaker wire through the wall, insert it through the wall portion of the bracket, as shown in the illustration.



- Pass the speaker wire through the speaker portion of the wall-mount bracket, as shown in the illustration.



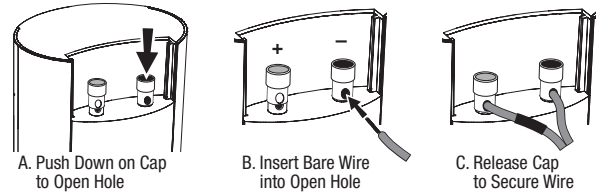
- If you have not already removed the speaker's base, do so by pulling it straight off the speaker, as shown in the illustration. Applying even pressure to both sides of the base will allow it to slide off smoothly.



CAUTION: Before making speaker connections, be sure that your receiver or amplifier is turned OFF and its AC cord is unplugged from the AC outlet.

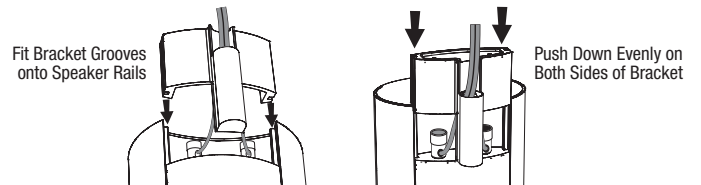
- Connect the speaker wire to the speaker terminals as shown in the illustration:
 - Press down on the top of the terminal to open the connection hole.
 - Insert the wire's bare end all the way into the hole.
 - Release the terminal to secure the wire.

Insert the conductor with the coloured band into the speaker's red (+) terminal, and insert the other conductor into the speaker's black (-) terminal.

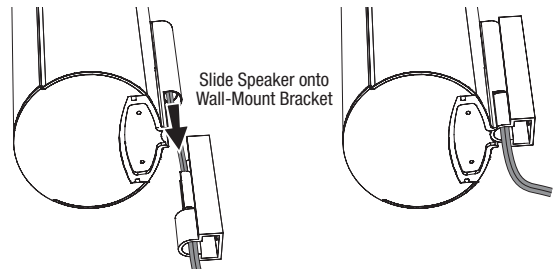


IMPORTANT: Make sure the (+) and (-) bare wires do not touch each other or the other terminal. Touching wires can cause a short circuit that can damage your receiver or amplifier.

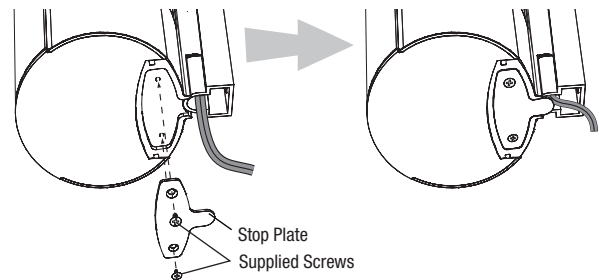
- Slide the speaker portion of the wall-mount bracket onto the speaker as shown in the illustration. Fit the grooves on the bracket onto the rails in the speaker, and apply even pressure on both sides of the bracket so it slides straight onto the speaker.
 - Push the bracket all the way onto the speaker until it snaps into place.
 - Pull any slack speaker wire back through the bracket as you slide the bracket onto the speaker.



- Slide the speaker onto the bracket's wall section, as shown in the illustration. Pull any slack speaker wire back through the bracket's wall section.

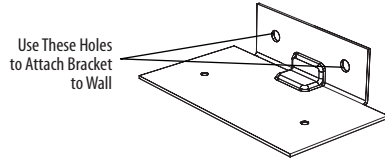


- Fit the metal stop plate into the recess on the bottom of the bracket with the pad facing the bracket, and fasten it to the bracket using two of the supplied screws. Fastening it will prevent the speaker from detaching from the bracket and will hold the speaker's position as you rotate it.



Wall-Mounting: Centre Speaker

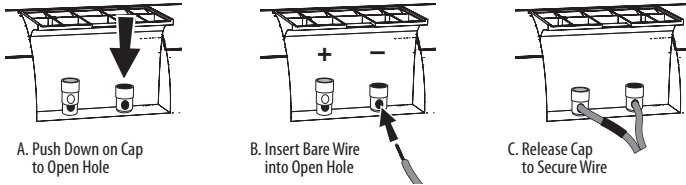
1. Decide on the location for the speaker.
2. Attach the centre speaker wall-mount bracket to the wall using hardware that is appropriate for the wall's construction and materials. Attach the anchors through the holes shown in the illustration.



NOTE: The centre speaker weighs 1.5kg (3.3 lb). Be sure to use hardware that can support this weight.

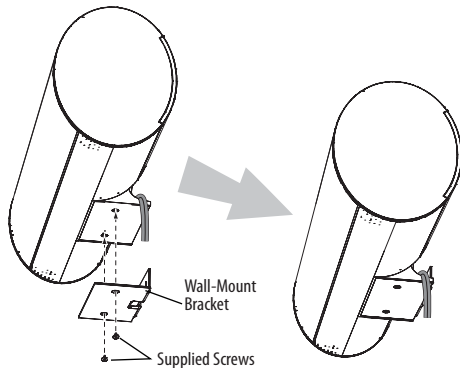
CAUTION: Before making speaker connections, be sure that your receiver or amplifier is turned OFF and its AC cord is unplugged from the AC power source.

3. Connect the speaker wire to the speaker terminals. Press down on the top of the terminal to open the connection hole, insert the wire's bare end all the way into the hole and release the terminal to secure the wire. Insert the conductor with the coloured band into the speaker's red (+) terminal, and insert the other conductor into the speaker's black (-) terminal, as shown in the illustration.



IMPORTANT: Make sure the (+) and (-) bare wires do not touch each other or the other terminal. Touching wires can cause a short circuit that can damage your receiver or amplifier.

4. Using two of the supplied screws, attach the centre speaker to the bracket, as shown in the illustration.



Speaker Connections

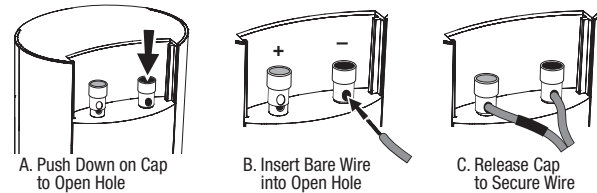
CAUTION: Before making speaker connections, be sure that your receiver or amplifier is turned OFF and its AC cord is unplugged from the AC power outlet.

Speakers and receivers/amplifiers have corresponding (+) and (-) connection terminals. Most electronics makers, including harman kardon engineers, use red to denote the (+) terminal and black for the (-) terminal. Newer harman kardon receivers conform to the CEA standard and therefore use a colour other than red to denote the (+) terminal for some speaker positions. See the table in *Colour-Coding System*, on page 5.

Each speaker wire included with your system has coloured bands at both ends of the (+) conductor, and the subwoofer cable has purple connectors that correspond to the colour of the HKTS 210SUB's LFE jack. This system helps ensure that the speaker in each location is connected to the correct receiver or amplifier terminals. In addition to the coloured bands at each end, each speaker wire's (+) terminal has ribs moulded into its insulation to help you identify it.

It is very important to connect each speaker identically: (+) on the speaker to (+) on the receiver or amplifier, and (-) on the speaker to (-) on the receiver or amplifier. Miswiring one or more speakers 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 correctly is very important to achieving the proper ambience and directionality of the program material.

To connect the speaker wire to the terminals on the satellite and centre speakers, press down on the top of the terminal to open the connection hole, insert the wire's bare end all the way into the hole, and release the terminal to secure the wire. Insert the conductor with the coloured band into the speaker's red (+) terminal, and insert the other conductor into the speaker's black (-) terminal, as shown in the illustration.



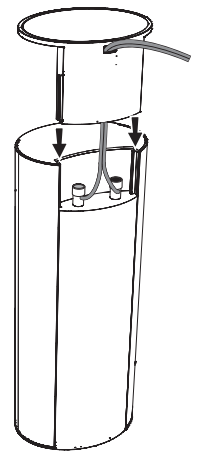
IMPORTANT: Make sure the (+) and (-) bare wires do not touch each other or the other terminal. Touching wires can cause a short circuit that can damage your receiver or amplifier.

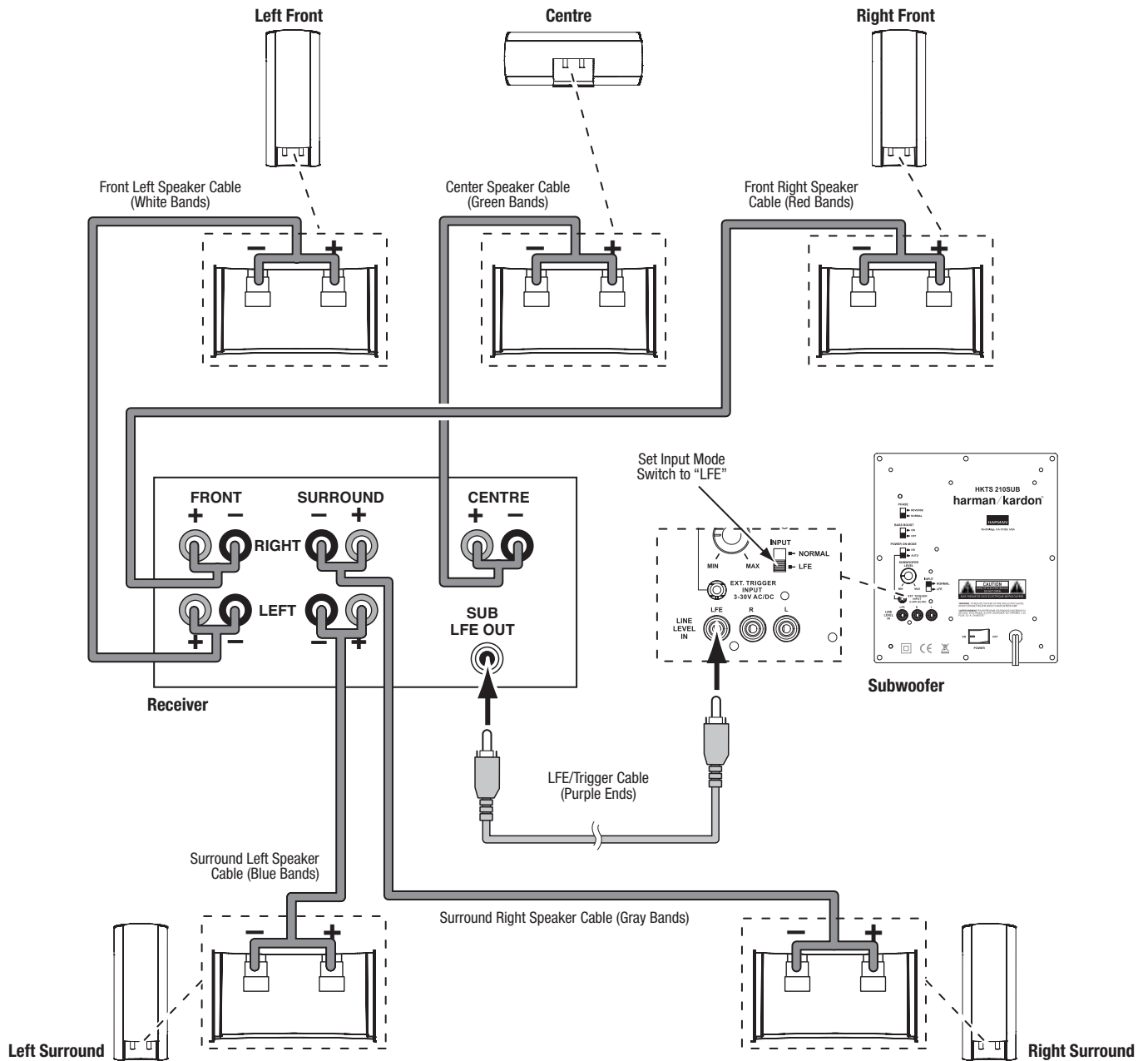
Connecting Satellite Speakers With Supplied Wall-Mount Brackets

Follow the instructions in *Wall-Mounting: Satellite Speakers*, on page 6, and *Wall-Mounting: Centre Speaker*, opposite.

Connecting Satellite Speakers with Supplied Bases

1. Remove the speaker's base (see *Shelf Placement*, on page 6).
2. Pass the speaker wire through the opening in the speaker's base.
3. Connect the speaker wire as described above.
4. Reattach the speaker's base, as shown in the illustration.





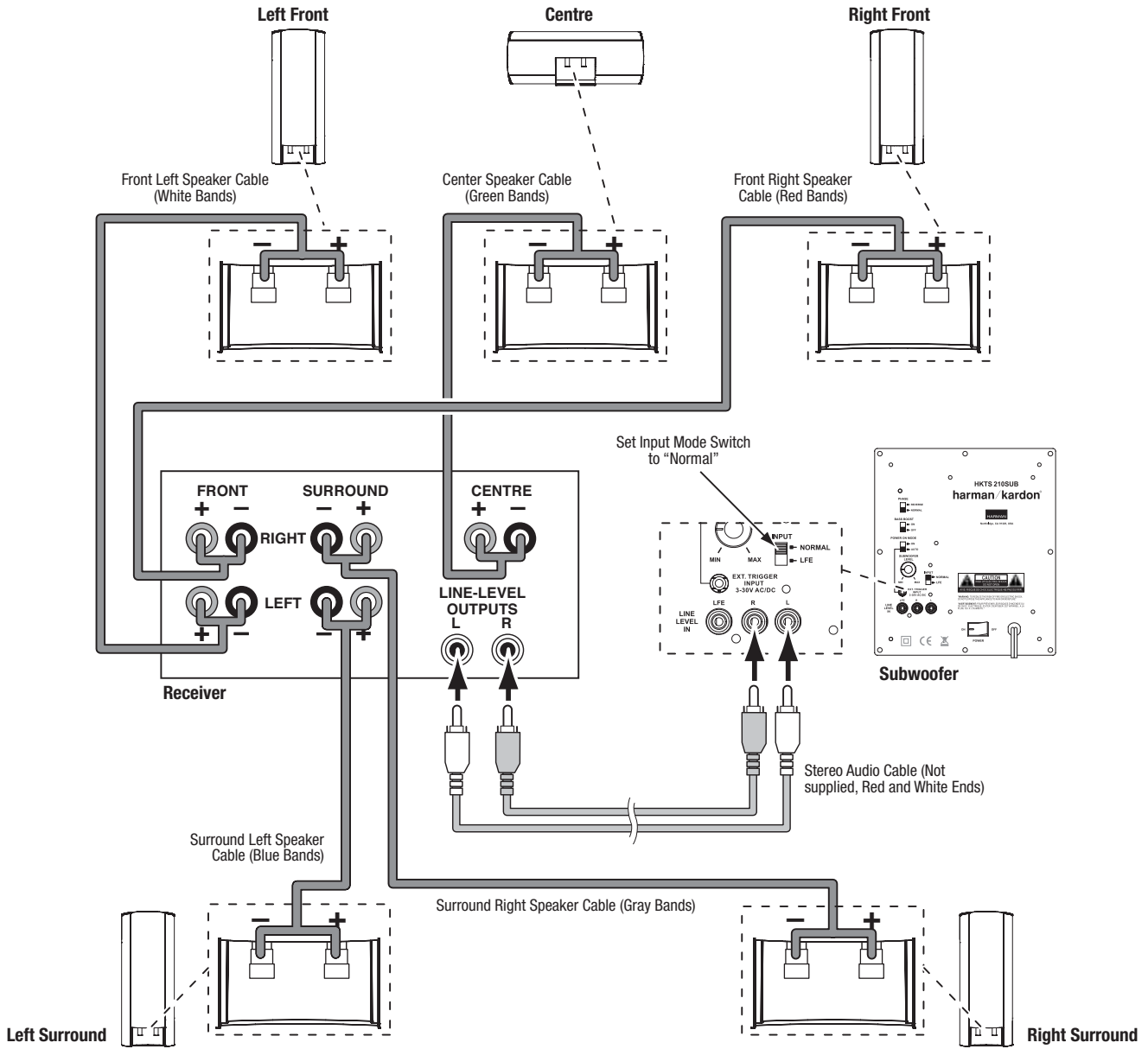
Connecting the Subwoofer to a Receiver or Preamp/Processor with a Dedicated Subwoofer Output

Use this installation method for receivers and preamp/processors that have a dedicated subwoofer output with low-pass filtering (also called bass management). If the dedicated subwoofer output does not have low-pass filtering, follow the instructions in Connecting the Subwoofer to a Receiver or Preamp/Processor *With Line Outputs*, on page 10.

Use the LFE (purple) connector of the supplied combination LFE and trigger cable to connect the HKTS 210SUB's **Line-Level LFE In** connector 7 to the dedicated subwoofer output (or LFE output) of your receiver or preamp/processor. Set the subwoofer's **Input Mode switch** 5 to the "LFE" position.

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

In your receiver or preamp/processor's setup menu, configure the receiver or preamp/processor for "Subwoofer ON," and set the front, center and surround speakers to "Small." After you have made and verified all connections, plug the HKTS 210SUB's **AC Power cord** 10 into an active AC outlet.



Connecting the Subwoofer to a Receiver or Preamp/Processor with Line Outputs

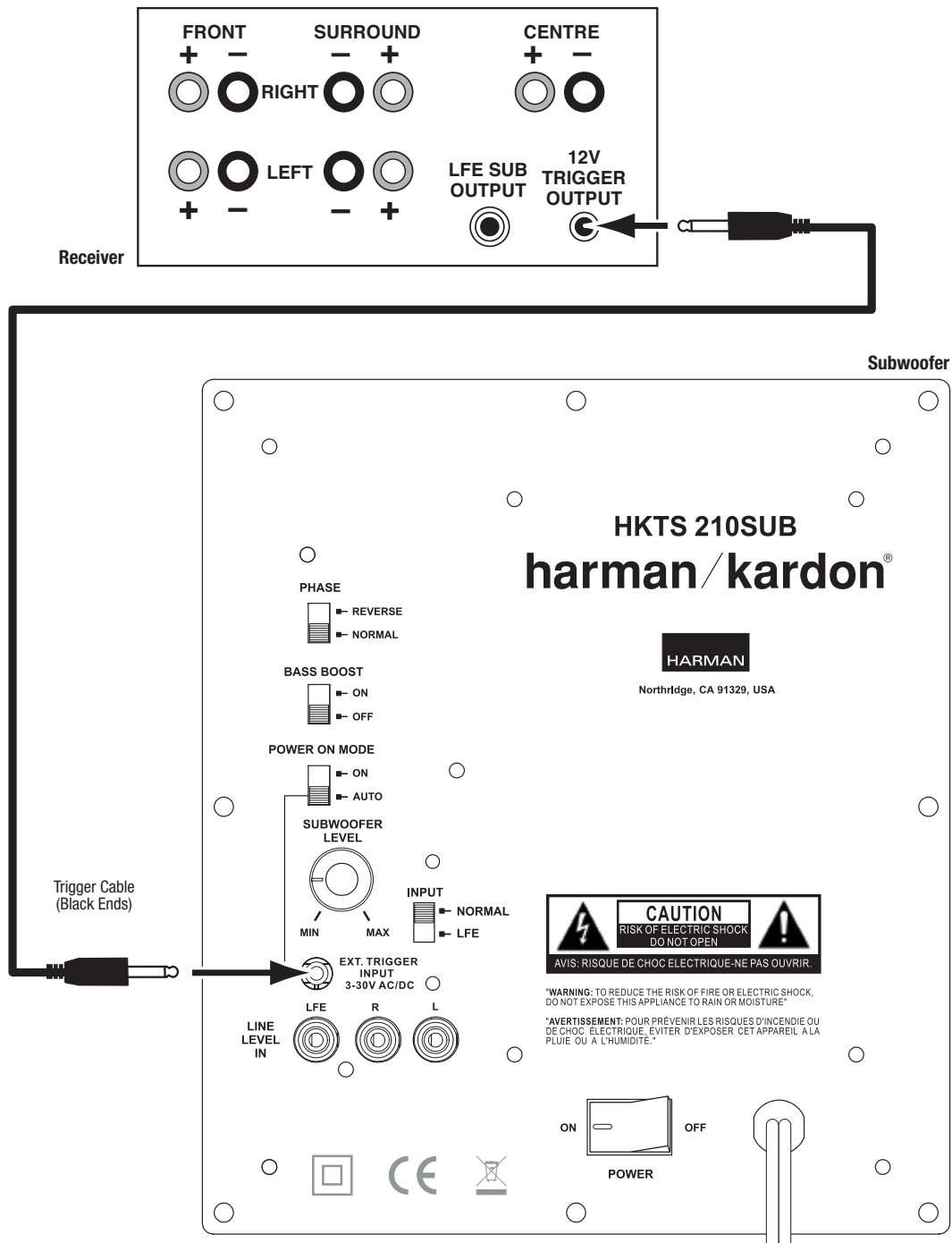
Use this installation method for receivers and preamp/processors that do not have a dedicated subwoofer output but do have preamp-level (volume-controlled) line outputs. If the receiver or preamp/processor has a dedicated subwoofer output with low-pass filtering, see *Connecting the Subwoofer to a Receiver or Preamp/Processor With a Dedicated Subwoofer Output*, on page 9.

If you're connecting to a receiver with left and right line outputs that are not connected to amplifier inputs, connect the LFE (purple) connector of the supplied combination LFE and trigger cable to one of those outputs and to either of the HKTS 210SUB's **Line-Level L/R In Connectors ③**. Use a second RCA cable (not supplied) to connect the other receiver or preamp line output to the other of the HKTS 210SUB's **Line-Level L/R In Connectors ③**.

If you're connecting to a receiver or preamp/processor with left and right line outputs that are connected to amplifier front left and front right inputs, connect the single line outputs. Connect one of the Y-adapter's double ends to the HKTS 210SUB's **Line-Level L/R In Connectors ③**, and connect the other double end to your amplifier's front left and right inputs.

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

After you have made and verified all connections, plug the HKTS 210SUB's **AC Power Cord ⑩** into an active AC outlet.



Connecting to a Trigger-Voltage Source

If your preamp/processor or another audio/video component has a trigger-voltage connection that supplies between 3V and 30V (AC or DC), connect it to the HKTS 210SUB's **External Trigger Input 6**. If the component's trigger-voltage connection has a 3.5mm mini jack, you can use the supplied combination LFE/trigger cable to make the connection.

NOTE: Please do not connect the subwoofer ON/OFF trigger cable to the Remote Control Output (IR Out) of your home cinema system or surround receiver. Doing so could lead to malfunction.

Operation

Turning the Subwoofer On and Off

Set the HKTS 210SUB's **Power Switch 9** to the **ON** position.

- If the **Power On Mode Switch 3** is set to **AUTO**, the HKTS 210SUB will automatically turn itself on when it receives an audio signal, and it will go into the standby mode after it has received no audio signal for 15 minutes. The HKTS 210SUB's LED will glow white when the subwoofer is on and will not be illuminated when the subwoofer is in standby.
- If the **Power On Mode Switch 3** is set to **ON**, the HKTS 210SUB will remain on at all times. The HKTS 210SUB's LED will glow white.
- If the **External Trigger Input 6** is connected to a trigger-voltage source, the HKTS 210SUB will turn on whenever a trigger voltage is present and will enter the standby mode after the trigger voltage ceases, regardless of the position of the **Power On Mode Switch 3**.

If you will be away from home for an extended period of time, or if you will not be using the subwoofer for an extended period, switch the **Power Switch 9** to the **OFF** Position.

Subwoofer Adjustments: Volume

Use the **Subwoofer Level Control 4** to set the HKTS 210SUB's volume. Turn the knob clockwise to increase the subwoofer's volume; turn the knob counterclockwise to decrease the subwoofer's volume.

Subwoofer Adjustments: Phase

The **Phase Switch 1** determines whether the HKTS 210SUB's piston-like action moves in and out in phase with the satellite speakers. If the subwoofer were to play out of phase with the satellite speakers, the sound waves from the satellites could cancel out sound waves from the subwoofer, reducing bass performance and sonic impact. This phenomenon depends in part on the placement of all the speakers in the room.

Although in most cases the **Phase Switch 1** should be left in the **NORMAL** position, there is no absolutely correct setting for the **Phase Switch 1**. When the HKTS 210SUB is properly in phase with the satellite speakers, the audio will be clearer, have maximum impact and make percussive sounds like drums, piano and plucked strings sound more lifelike. The best way to set the **Phase Switch 1** is to listen to music that you know well and set the switch in the position that gives drums and other percussive sounds maximum impact.

Subwoofer Adjustments: Bass Boost

When set to the **ON** position, the **Bass Boost Switch 2** enhances low-frequency performance, resulting in bass with more impact, which you may prefer while watching movies or listening to music. There is no harm in experimenting with this control. Setting the switch to the **OFF** position will return normal low-frequency performance.

Troubleshooting

This unit is designed for trouble-free operation. Most problems that users encounter are due to operating errors. So if you have a problem, first check this list for a possible solution. If the problem persists, consult your authorized harman kardon service centre.

Problem	Solution
If there is no sound from <i>any</i> of the speakers:	<ul style="list-style-type: none"> • Check that the receiver/amplifier is on and a source is playing. • Make sure that all wires and connections between the receiver/amplifier and the speakers are connected properly. • Make sure none of the speaker wires is frayed, cut or punctured. • Review the proper operation of your receiver/amplifier.
If there is no sound coming from <i>one speaker</i> :	<ul style="list-style-type: none"> • Check that the balance control on your receiver/amplifier is not set all the way to one channel. • Check your receiver/amplifier's speaker setup procedure to make sure that the speaker in question has been enabled and its volume level has not been turned all the way down. • Make sure that all wires and connections between the receiver/amplifier and the speaker are connected properly. • Make sure the speaker wires are not frayed, cut or punctured.
If there is no sound coming from the <i>center speaker</i> :	<ul style="list-style-type: none"> • Check your receiver/amplifier's speaker setup procedure to make sure that the center speaker has been enabled and its volume level has not been turned all the way down. • Make sure that all wires and connections between the receiver/amplifier and the center speaker are connected properly. • Make sure the speaker wires are not frayed, cut or punctured. • If your receiver is operating in Dolby® Pro Logic® mode, make sure that the center speaker is not set to Phantom.

You can find additional troubleshooting information in the FAQs link on the Support page at www.harmankardon.com.

Specifications

HKTS 60BQ/230 System

Frequency Response	45Hz – 20kHz (-6dB)
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SAT-TS60 Satellites

Recommended Power	20 ~ 150 watts
Impedance	8 ohms nominal
Sensitivity	83dB @ 2.83V/1 meter
Tweeter	One 1" (25mm) CMMD Lite dome, video-shielded
Midrange	Dual 3" (75mm) flat-diaphragm drivers, video-shielded
Dimensions – including stands (H x W x D)	299mm x 110mm x 88mm (11-25/32" x 4-11/32" x 3-15/32")
Weight	1.5 kg (3.4 lb)

CEN-TS60

Recommended Power	20 ~ 150 watts
Impedance	8 ohms nominal
Sensitivity	83dB @ 2.83V/1 meter
Tweeter	One 1" (25mm) CMMD Lite dome, video-shielded
Midrange	Dual 3" (75mm) flat-diaphragm drivers, video-shielded
Dimensions (H x W x D)	110mm x 272mm x 88mm (4-11/32" x 10-11/32" x 3-15/32")
Weight	1.5kg (3.3 lb)

HKTS 210SUB Subwoofer

Power requirement	AC 100–120V, 50/60 Hz, 200W (USA) AC 220–240V, 50/60 Hz, 200W (EU)
Amplifier Power	200 watts RMS
Woofer	8" (200mm) woofer, sealed enclosure
External Trigger Input Voltage	3 ~ 30 volts AC/DC
Dimensions (H x W x D)	353mm x 267mm x 267mm (13-29/32" x 10-1/2" x 10-1/2")
Weight	9.0 kg (19.8 lb)

HKTS 60BQ/230

HARMAN

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Features, specifications and appearance are subject to change without notice.

Part No 950-0336-001



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