

# Recepter Radio® HD Owner's Manual



Shown with second speaker for stereo operation.



### IMPORTANT SAFETY INSTRUCTIONS



This symbol found on the apparatus indicates hazards arising from dangerous voltages.



This symbol found on the apparatus indicates the user should read all safety statements found in the user manual.



This symbol found on the apparatus indicates double insulation.



#### Warning!

To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.

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 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. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the 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.

14. Maintain a minimum distance of 2" (50mm) around the front, rear, and sides of the apparatus for sufficient ventilation. The ventilation should not be impeded by covering the ventilation openings or placing on or around the apparatus items such as newspapers, table cloths, curtains, etc.
15. No open flame sources, such as lighted candles, should be placed on the apparatus.
16. The apparatus should not be exposed to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the apparatus.

#### U.S. Users

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

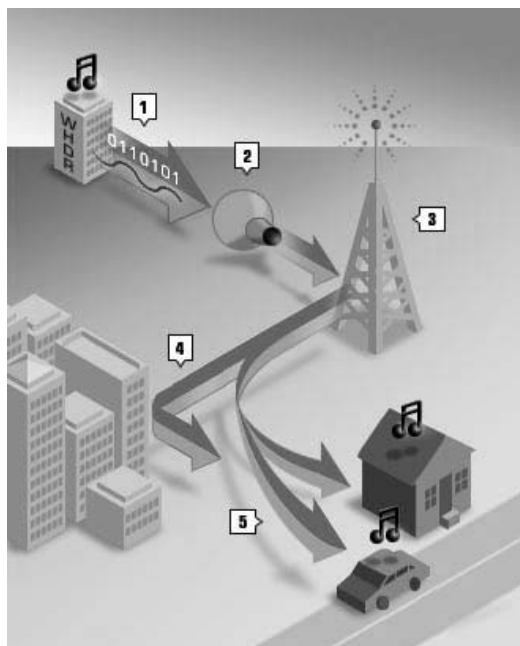
**Caution:** Unauthorized changes or modifications to the receiver could void the user's authority to operate the equipment.

**Canadian Users:** This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

**T**hank you for choosing the **Boston Acoustics® Receptor Radio® HD**. We have designed this product to provide rich, lifelike musical sound and simple operation in a compact, tabletop stereo radio. Across the country, AM and FM radio stations are upgrading to digital HD Radio™ broadcasting, which the Boston Acoustics Receptor Radio HD is specially designed to receive. In addition to greatly enhanced digital quality sound, HD Radio stations will soon broadcast multiple channels and data simultaneously on their same, familiar position on the radio dial. The Receptor Radio HD sorts it all out to bring you your favorite current programming, or new and expanding choices – with a clarity you’ve never experienced before.

iBiquity Digital’s HD Radio technology will enhance both the AM and FM bands’ audio fidelity. AM will sound more like FM does today, and FM will have CD-like audio quality. The static, hiss, pops, and fades heard on today’s analog radios will be virtually eliminated, thus ensuring crystal-clear reception. To learn more about HD Radio technology and find an HD Radio Station On-the-Air, visit [www.hdradio.com](http://www.hdradio.com).



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#### How HD Radio™ works

1. Stations bundle both analog and digital audio signals (with text data, such as artist and song information, weather, traffic, and more).
2. The digital signal is compressed using iBiquity’s HD Radio compression technology.
3. The combined analog and digital signals are transmitted.
4. The most common form of interference, multipath distortion, occurs when part of a signal bounces off an object and arrives at the receiver at a different time than the main signal. HD Radio receivers are designed to sort through the reflected signals and reduce static, hiss, pops, and fades.
5. The signal will be compatible with both HD Radio receivers and analog radios.

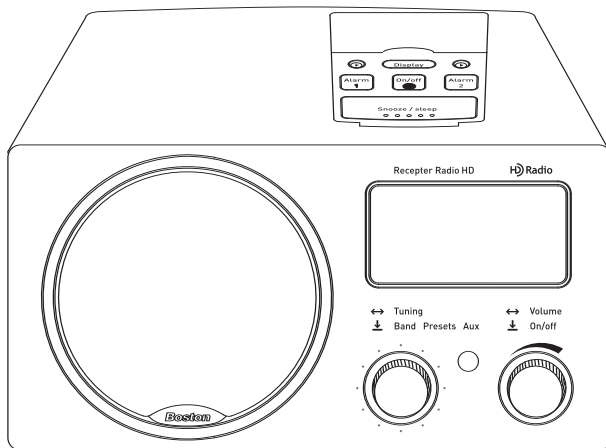
The Receptor Radio HD’s surprising performance is made possible by Boston Acoustics’ many years of experience in designing and manufacturing high-performance audio equipment. The key to the Radio’s sound is its Boston-designed wide-range driver. Optimized specifically for the Radio, it is combined with a digitally equalized amplifier that uses proprietary BassTrac® circuitry for full, satisfying bass even at low volume.

The result is smooth, natural response and room-filling sound that belies its small size. This outstanding audio performance is coupled with an HD Radio AM/FM tuner with a 20 preset-station memory for clear, distortion-free reception.

The Receptor Radio® HD also has two independent wake-up alarms. Either alarm can be set to music or tone. A large, easy-to-read LCD clearly presents the station, clock, and alarm/sleep status, while a built-in sleep function lets the Radio play for up to 60 minutes before turning off automatically.

The Radio is fast and easy to use and set, since times and stations can be rapidly selected by spinning a knob rather than repeatedly pressing buttons. And once you have stored your favorite stations in memory, the tuning knob can be set to tune in only those stations.

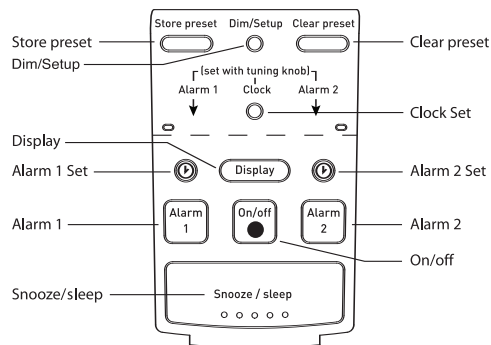
The Receptor Radio HD also features an auxiliary input that allows the connection of any device with a headphone output. Simply connect the device to the 1/8" input jack (located in the rear of the Radio) and you can listen to your iPod®, MP3 player, CD player, or other source through the Receptor Radio HD.



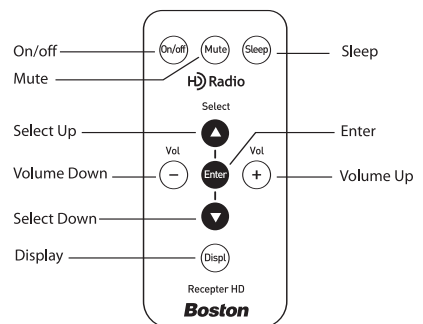
## The Display



## The Control Panel



## The Remote Control



## Owner's Manual

Please save this owner's manual for future reference. If you should need an additional copy, it may be downloaded from the Boston Acoustics website: [www.bostonacoustics.com/RRHD](http://www.bostonacoustics.com/RRHD).

## Owner's Manual Legend



Some operations may be accomplished with either the Remote Control or the Radio. Icons will represent where the buttons are located. Text in quotes (e.g., “Alarm”) are indicators shown on the display, while bold words (e.g., **Tuning** knob) refer to buttons and knobs.



## Unpacking the Receptor Radio® HD

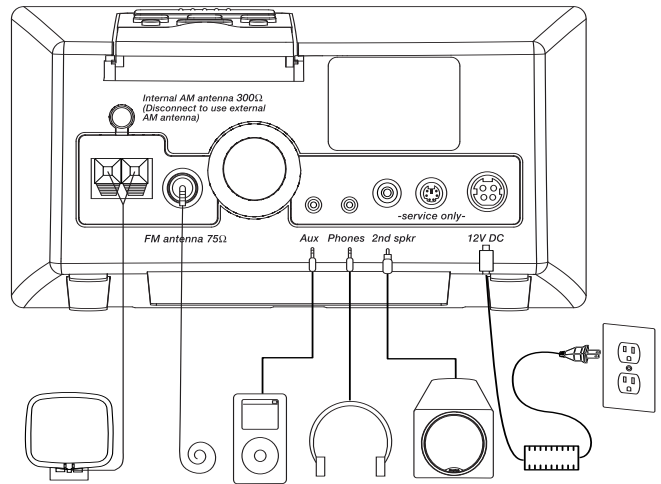
Please save all the original packaging. It provides the safest way to transport your unit.

## Connecting the power cord

1. Insert the power supply cord into the port labeled **12V DC** on the rear of the Radio.
2. Insert the AC cord into the power supply and insert the AC plug into the wall outlet.

Be sure to keep the power supply away from the Radio while in use, as it may cause interference.

**Note:** The Receptor Radio HD is not designed for automotive use.



## Connecting the FM antenna wire

The FM antenna comes attached. If the antenna is disconnected or you wish to attach an external indoor FM antenna, follow these steps:

1. Push the Type F connector plug on the end of the antenna wire on the receptacle on the Radio marked **FM antenna 75Ω**.
2. Straighten out the antenna to its full length and orient the wire for the best reception.

## Connecting the second speaker

1. Remove the second speaker from the packaging.
2. Insert the speaker plug into the jack labeled **2nd spkr**.

The Radio's default setting is stereo; however, if you do not hear stereo sound from the system, please follow this procedure:



1. Press and hold the **Dim/Setup** button for three seconds to bring up the “SETUP MENU.”

2. Using the **Tuning** knob, scroll down to “2ND SPKR” and push the knob in to select. The selection will flash.

3. Turn the **Tuning** knob to select “YES (STEREO).” Press the Tuning knob to accept.



**Note:** If you choose to operate the radio without the second speaker, please set the radio to “NO (MONO).”

## Connecting an auxiliary device (iPod®/MP3 Player/CD Player)



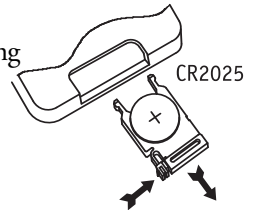
1. Turn down the volume level on the device you would like to connect to the Radio and connect the device to its cable (not included).
2. While both units are off, insert the plug into the input labeled **Aux** on the rear of the Radio.
3. Turn on the Radio and press the **Tuning** knob to select “-AUX-” or press the **Enter** button on the remote.
4. Raise the volume of the device to find the best sound without distortion. If the volume is too soft, raise the volume on the Receptor Radio® HD.

## Connecting headphones

Insert the headphones plug into the stereo minijack labeled **Phones** on the rear of the radio. When you are listening to headphones, the speakers will be muted except for the alarms. **Note:** The headphone jack is also designed to be used as a stereo line output for connecting to another system. Headphones are in stereo mode, even when the second speaker is not attached.

## Installing the remote battery

Place the remote control face down on a flat surface. Using your thumb, push the locking tab to the right and pull the battery compartment open with your finger. Insert the battery with positive side (+) up. Carefully close the compartment until it clicks.



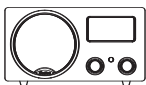
## The Basics – Setting the clock



1. Lift the door of the control panel and push the **Clock** button to bring up the “Clock Set” display.
2. Turn the **Tuning** or **Volume** knob to the desired time and press the **Clock** button, **Tuning** or **Volume** knob to set.

**Note:** This radio is equipped with a supercapacitor. The supercapacitor will keep the clock time, preset/alarm settings, and stored presets for up to two days when AC power is interrupted. The Radio and alarm will not operate without AC power. Clock display, radio operation, and alarm functionality will resume when AC power is restored.

## Turning on/off the radio



Press the **On/off** button on the Receptor Radio HD or on the Remote Control to turn the unit on or off. The Radio can also be turned on by pressing the **Volume** knob or the + or – buttons on the Remote Control.

## Adjusting the volume



Turn the **Volume** knob on the Receptor Radio HD or press the + or – buttons on the remote to adjust the volume. When the Radio is turned on, the volume will return to the previous setting unless it was very loud, in which case it will go to volume level 40.

## Muting the system



Pressing the **Mute** button on the Remote Control will mute all sound. The Radio will remain silent until the **Mute** button or a volume control is used. Turning off the Radio will also cancel the mute command.

## Radio – Choosing the AM/FM band

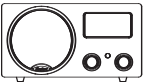


Push the **Tuning** knob or the **Enter** button on the Remote Control to select the source: “-AM-”, “-FM-”, “-Presets-”, and “-AUX-”.

The **Tuning** knob tunes the radio, sets the time, and controls the Setup Menu.



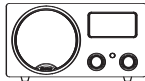
## Manually tuning to a station



After choosing either the AM or FM band, turn the **Tuning** knob until the desired station is selected or press the **Select Up** or **Select Down** buttons on the Remote Control.

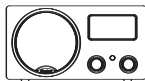


## Entering stations into preset memory



1. Tune the Radio to a desired station.
2. Press and hold the **Store Preset** button for 2 seconds.
3. The display will show the preset station number in the upper-left corner of the display. **Note:** Stations will store in the order that they were entered into memory, regardless of whether they are FM or AM stations.

## Listening to preset stations



1. Push the **Tuning** knob until the “-Presets-” display appears.
2. Turn the **Tuning** knob or **Select Up** or **Select Down** buttons on the Remote Control to select the preset you wish to listen to.



## Clearing stations from preset memory



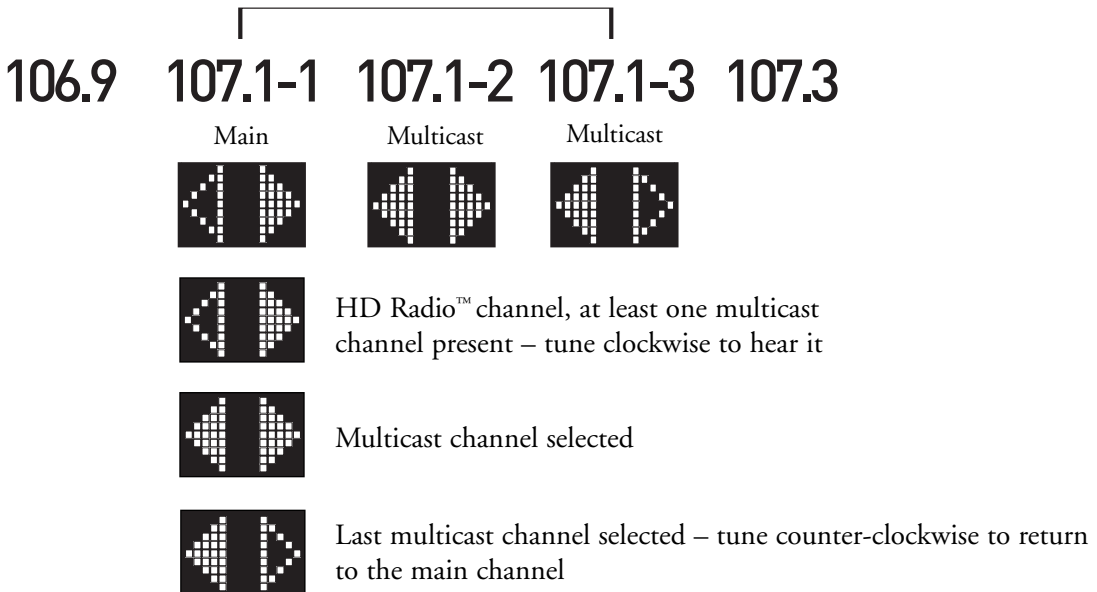
1. Push the **Tuning** knob until the “-Presets-” display appears.
2. Turn the **Tuning** knob to the preset you wish to clear.
3. Press and hold the **Clear Preset** button for 2 seconds until the “-Presets Empty-” display appears. When a station is cleared from memory, the Radio will mute until the tuning knob is turned again. **Note:** Holding the clear preset button for 10 seconds will clear **ALL** the preset stations.



## HD Radio™ multicast channels (FM only)

In addition to digital sound quality, HD Radio technology gives broadcasters the opportunity to offer more than one programming channel simultaneously using their existing frequency on the radio dial. If the Receptor Radio® HD recognizes an HD Radio channel, the HD Radio logo starts blinking until the signal is tuned in. After the Receptor Radio HD is tuned to an HD channel, arrows will appear on the right side of the display. The arrows will indicate the existence of multicast services. Use the **Tuning** knob to select the multicast channels.

**Example: 107.1 has two multicast channels.**



## Special information about delay in the HD Radio™ system

Digital systems inherently produce a delay in audio. To overcome this delay, HD Radio utilizes a station's current analog signal to enable fast tuning of an AM or FM station. After approximately 5 seconds, the audio will blend from analog to digital HD Radio. If the blend is smooth, the radio station has implemented the HD Radio broadcast correctly. However, if the station has not, you will experience a skip in content of approximately 5 seconds. This is not a problem with your Receptor Radio® HD. This is an HD Radio broadcaster's implementation issue, which should be corrected by the station over time. Today's analog is only present on the main channel. Should you tune directly to a station's multicast channel, the Receptor Radio HD will delay playing audio or content for approximately 5 seconds. This is normal operation.



## RBDS (Radio Broadcast Data System)

This radio supports RBDS, Program Identification and Radio Text. This function allows a radio station to transmit free-form textual information that can be either static e.g. station slogans or in sync with the programming such as the title and artist of the currently-playing song.

# Alarms

## Setting the alarms



1. Press the **Alarm 1** or **Alarm 2** button to choose the desired alarm mode — one press for Music , two presses for Tone , and three presses to turn it off. The display will indicate if an alarm is set and its mode of operation.



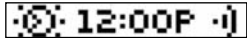
2. Press the **Alarm Set** button above the **Alarm 1** (or **Alarm 2**) button.
3. Turn the **Tuning** knob to the desired time.

Music Mode

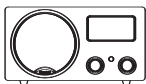


4. Turn the **Volume** knob to adjust the alarm volume.

Tone Mode



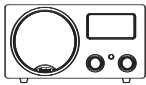
## Displaying the alarm time



When an alarm is set, press the **Alarm Set** button above the appropriate **Alarm 1** or **Alarm 2** button to check the respective alarm time setting.

The alarm time will display for 3 seconds. The display will revert to its normal readout (either current clock time or radio frequency if the Radio power is on, or current clock time if the Radio power is off).

## Turning off the alarm when it is sounding



1. To turn off the alarm, press the **On/off** button on either the top or front of the Radio or on the Remote Control. The alarm will reset.



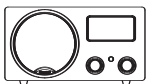
2. To disable the alarm completely, press the **Alarm 1** (or **Alarm 2**) button repeatedly until the “Alarm” indicator is no longer visible in the display.



## Dual alarms

If one alarm is sounding or in the Snooze/sleep mode when the second alarm sounds, the first alarm is reset.

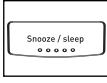
## Using the Snooze function



1. When the alarm sounds, push the **Snooze/sleep** button (or the **Sleep** button on the Remote Control) once to silence the alarm for 10 minutes.
2. If the **Snooze/sleep** button is pushed again within 3 seconds of the first push, 5 minutes will be added to Snooze/sleep time, up to a maximum of 60 minutes. **Example:** If the button is pushed rapidly three times, the Radio will go into Snooze/sleep mode for 20 minutes (10 + 5 + 5 minutes).
3. Once the Radio is in Snooze/sleep mode, tapping the **Snooze/sleep** button will display the remaining Snooze/sleep time for 5 seconds.



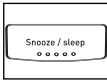
## Using the Sleep function



This function will turn the Radio off automatically after a predetermined time.

1. When the Radio is on (no alarm is sounding), hold down the **Snooze/sleep** button (or the **Sleep** button on the Remote Control) for 1 second.
2. The words “–SLEEP TIME SET–” are shown in the display, and the time “60:00” is shown temporarily.
3. Each additional press of the **Snooze/sleep** button will reduce the remaining Sleep time in 10-minute increments, to the nearest 10 minutes. **Example:** If there are 59:48 minutes remaining in Sleep time, pressing the button once will reduce the Sleep time to 50 minutes, twice will reduce it to 40 minutes, etc.

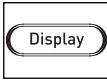
## Displaying the remaining Sleep time



While the Radio is in Sleep mode, press the **Snooze/sleep** button once. The remaining Sleep time will be temporarily displayed, after which the display will revert to its normal readout (either current clock time or radio frequency, depending on which has been selected).

## More Features

### Changing the display mode (station frequency/song info\*/clock time)



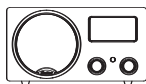
The Radio normally displays the station frequency when the power is on. To recall the clock time:



1. Tap the **Display** button.
2. When the power is off, the Radio displays the current clock time, even if the default display mode is the station frequency.

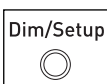
\* **Note:** Song artist and title may be available as an additional display mode if the station broadcasts in HD Radio.

### Dim/Setup button



The bright display mode is the default setting. Tap the **Dim/Setup** button to change the display from dim to medium or bright.

### Bass Trim



When the Receptor Radio® HD is near a wall, the bass may be more pronounced.

To reduce the bass:

1. Press the **Dim/Setup** button for three seconds to bring up the “SETUP MENU.”
2. Select with Bass Trim with the **Tuning** knob. Press the **Tuning** knob to enter Bass Setup. Adjust to achieve the desired amount of bass output. The range is: 0 (Normal) to -6. Press the Tuning knob to accept changes.

# Other Connections

## Connecting the Receptor Radio® HD to a cable radio signal

The Radio’s FM antenna connector is a standard “F” connector and will accept the cable FM feed from most cable systems that provide FM programming. To connect your radio to the FM signal available from some cable TV providers, contact your cable TV provider for assistance.



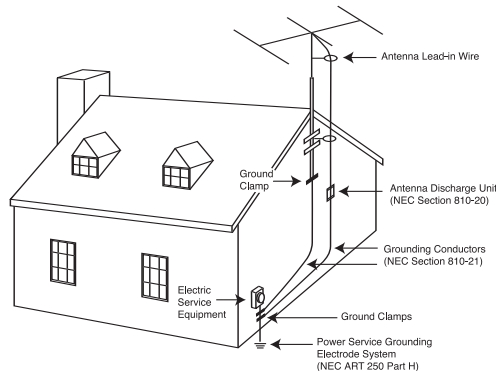
Be sure that the installation includes a splitter that filters the signal to prevent any re-emission of the TV spectrum through the Radio, so only the FM band, not the cable TV signal, is transmitted to the Radio. As of the writing of this manual, HD signals are not being rebroadcast via cable providers.

## Antenna grounding

Example of antenna grounding, per the National Electrical Code, ANSI/NFPA 70.

### Notice for Cable TV System Installer

Please make note of Article 820-40 of the NEC (of USA) that provides guidelines for proper grounding. In particular, this standard specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as is practical.



## Connecting the supplied external AM antenna

If AM reception is weak, you may improve the AM reception by connecting the provided antenna.

1. Disconnect the built-in internal AM antenna wires by pressing the spring terminals and pulling the wires out of the slot.
2. Connect the wires of the external AM antenna to these terminals.
3. Position the antenna for the best reception.

## Specifications

Receptor Radio® HD

Dimensions: 4<sup>3</sup>/<sub>8</sub> x 7<sup>3</sup>/<sub>8</sub> x 6<sup>3</sup>/<sub>4</sub>" (H x W x D)  
(111 x 194 x 172mm)

Weight: 2.8 lbs (1.2kg)

Second Speaker Dimensions: 4<sup>3</sup>/<sub>8</sub> x 4<sup>3</sup>/<sub>8</sub> x 6" (H x W x D)  
(111 x 111 x 153mm)

Weight: 1.6 lbs (.8kg)

Remote Control Dimensions: 1<sup>7</sup>/<sub>16</sub> x 3<sup>3</sup>/<sub>8</sub> x 1/4" (H x W x D)  
(40 x 86 x 6mm)

Remote Battery: CR2025 3-volt

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## Limited Warranty

For one year from the date of purchase, Boston Acoustics will repair for the original owner any defect in materials or workmanship that occurs in normal use of the Receptor Radio® HD, without charge for parts and labor.

Your responsibilities are to use the unit according to the instructions supplied, to provide safe and secure transportation to an authorized Boston Acoustics service representative, and to present proof of purchase in the form of your sales slip when requesting service.

Excluded from this warranty is damage that results from abuse, misuse, accidents, shipping, or repairs or modifications by anyone other than an authorized Boston Acoustics service representative.

This warranty is void if the serial number has been removed or defaced.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

### **If service seems necessary:**

First, contact the retailer from whom you purchased the system. If that is not possible, write to:

Boston Acoustics, Inc., 300 Jubilee Drive, Peabody, MA 01960 U.S.A.

Call 978.538.5000 or email: [parts@bostonacoustics.com](mailto:parts@bostonacoustics.com).

We will promptly advise you of what action to take. If it is necessary to return the product to the factory, please ship it prepaid. After it has been repaired, we will return it freight prepaid in the U.S. and Canada.

# **Boston**

*Boston Acoustics*

300 Jubilee Drive  
Peabody, MA 01960 U.S.A.  
978.538.5000  
[www.bostonacoustics.com](http://www.bostonacoustics.com)

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