

# **BODYM SOUND™**

**Home Entertainment Chair**

**INCLUDING**

**The SOUNDNUMBER™ System**

## **Operators Manual**

**Please read this entire manual before using the BodySound chair.**

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All rights reserved, which includes the right to reproduce this manual or portions thereof in any form whatsoever except as provided by U.S. Copyright Law. For information please contact BodySound Technologies, Inc., 10230 West 70<sup>th</sup> Street, Eden Prairie, MN, 55344. 1-952-943-4041, 1-952-944-6355 (fax).

Patents pending.

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.

BodySound remote control: FCC ID:UJFBDSYR001. This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and, 2) This device must accept any interference received including interference that may cause undesired operation.

**CAUTION:**

Changes or modifications not expressly approved by BodySound Technologies could void the user's authority to operate the equipment.

**Warnings – Please also read the Precautions section of this manual**

**Never place power cables beneath the base of the chair.**

**Sound levels above 85 decibels may cause hearing loss.**

**Use only the DC power supply provided.**

**Never place speaker wires directly beneath the base of the chair.**

**Do not walk, step on, or jump on the BodySound Chair.**

**Avoid excess pressure on the speakers located on the back or seat.**

**The BodySound chair has a weight restriction of 300 lbs.**

**If you have a pacemaker, please consult your physician before use.**

**Only one person should sit in the BodySound chair at a time.**

**Do not sit in the BodySound chair with sharp objects in your pocket or sit on arms.**

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## **BodySound Chairs**

### **Introduction**

The BodySound chair is an ultra-comfortable chair with a seamlessly embedded sound system. Six speakers strategically placed within a continuous steel frame create a resonating cocoon of full spectrum sound throughout and around the chair and also directly infuse sound into your body. This creates the BodySound effect, which is the fusion of hearing and feeling, allowing you to feel what you hear. We are used to hearing sound, but are not accustomed to feeling full spectrum sound. Our sense of feeling provides much more intimacy than our sense of hearing. As a result, the BodySound effect creates more physical and emotional engagement as we watch a movie, listen to music, or play games.

BodySound chairs also allow for the ultimate customization of your immediate sound space because you sit where the sound originates and you're in control of your settings. Set the volume of your existing home entertainment equipment at comfortable ambient levels and then add the sound from your BodySound chair the way that you like it. If you have multiple chairs, each may be adjusted to the user's preferred volume setting without the worry of invading another listener's sound space.

Please take a moment to read through this manual, as there are several new technology concepts which allow you to personalize your sound environment in addition to experiencing the BodySound sensation. This technology adds another dimension to movie watching, listening to music, and gaming that words can't adequately describe. Experience and enjoy it.

### **Before You Begin**

What's included with the BodySound home entertainment chair:

Model	Amplifier	Speakers	Recline	Color/Custom
Premium	---	6	Power	Colors
Deluxe	Included	6	Power	Color/Options

The BodySound home entertainment chair is available in two models. For a more complete description of the various components comprising these models, please refer to the Consumer Warranty section of this manual.

Additional components that are included with all BodySound chairs:

- DC power supply and power cord

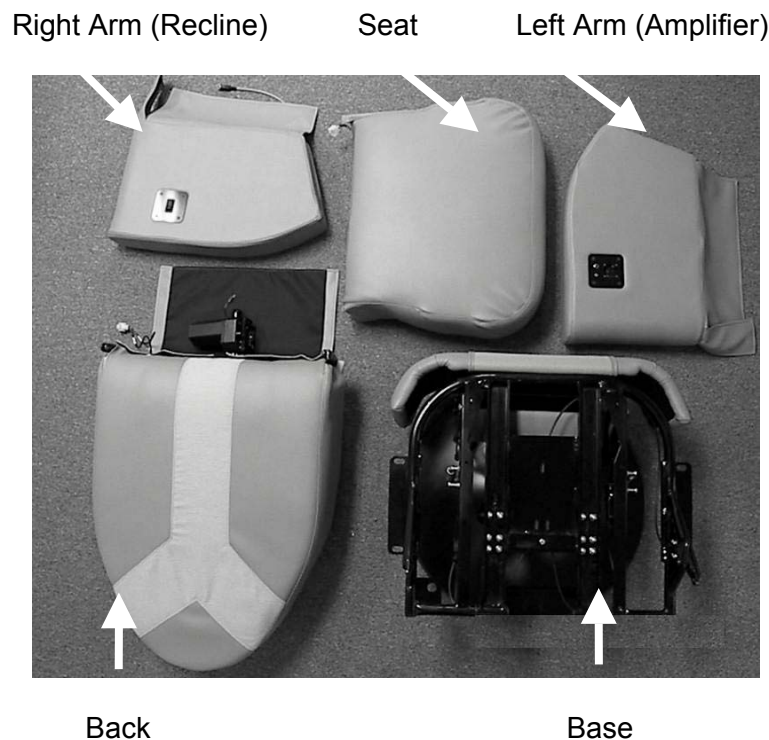
With Deluxe models of the Home Entertainment chair, Theater, and Executive chairs:

- RF (radio frequency) Remote control unit.

- Theater cable—twenty-five foot input cable with a ten pin connector on one end and eight phono plugs on the other end to connect your home entertainment equipment to the BodySound chair.
- Portable audio cable—audio input cable (a four foot cable with a 3.5mm stereo male jack on each end)—this accessory cable is for devices such as portable CD disc players, MP3 players, and laptops to make connections with the 3.5mm audio input jack on the outer aspect of the left arm.

### **Assembly (Home Entertainment Chair):**

The BodySound chair has been designed in modules to protect the enclosed components during shipping and to enhance installation and serviceability. Assembly should proceed as demonstrated after all of the components are removed from their boxes.



Review this process completely in the manual before beginning the assembly process.

Place the chair base in the desired location, checking to see that the front of the base is centered so that it swivels 90 degrees to the left and to the right of the desired center position.

If you are using a Theater cable, it should be routed from your entertainment equipment underneath your carpeting, under the base of the chair, and out the exit hole in the neck of the pedestal. It will be connected to the underside of the left arm after the left arm has been attached to the seat frame. **Allow enough slack in the cable hanging outside**

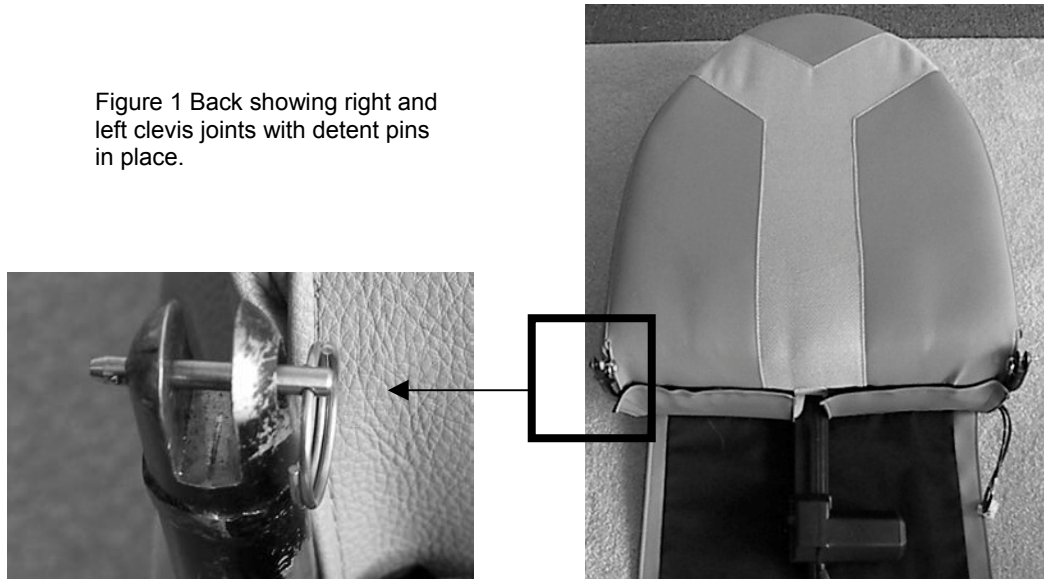
**the chair pedestal so that the chair can swivel full range without pulling on the cable.**

To prepare for laying the cables, mark the perimeter of the chair base after it has been properly positioned in the room. Use masking tape to mark several positions around the base. Move the base aside. Then mark the center point of the chair on the carpet. This is the spot where you will make a slit about two inches long in the carpet, perpendicular to the wall that you will be pulling the carpet back from. You may then pull the carpet (and pad if desired) back from the wall to the spot where you cut the slit. Once the cables have been installed, the carpet should be laid back down and the chair base moved back to its specified location.

1. Back of the chair to seat frame:

- a. Remove both detent pins from the two clevis joints on the back cushion. See Figure 1.

Figure 1 Back showing right and left clevis joints with detent pins in place.



- b. Position the clevis joints of the back frame over the clevis joints of the seat frame on both sides simultaneously (see Figure 2). Once they are in place insert the detent pins from the inner aspect of the chair.



Figure 2 Clevis joint on the back frame fits around the clevis joint of the seat frame.

- c. To attach the power recline module to the seat frame, first remove the detent pin that is currently positioned horizontally in two clearance holes at the bottom of the bracket that supports the recline module (attached to the back of the seat frame) by pulling on the metal ring. The chair back must be supported until the recline motor is secured using this detent pin.



Figure 3 Detent pin in place. Pull out using the attached ring.

- d. Position the recline motor with the motor housing facing left as you face the rear of the chair. **Make sure that you do not trap the power cable attached to the recline motor underneath the recline motor housing.** Position the clearance holes at the bottom of the recline housing between the two clearance holes in the metal recline support bracket on the seat frame. Move the chair back up or down so that the clearance holes are aligned. Once positioned, reinsert the detent pin. Jiggling the detent pin when applying pressure will allow for easier insertion. Ensure that the detent pin is positioned through all the clearance holes.



Figure 4 Detent pin extending through all of the holes in the bracket and bottom of the recline motor. Note recline motor housing facing to the left.

- e. Cover the clevis joints with the clevis joint covers (see Figures 5 and 6).



Figure 5a and 5b Clevis joint covers. Note the difference between the right and left joint covers.



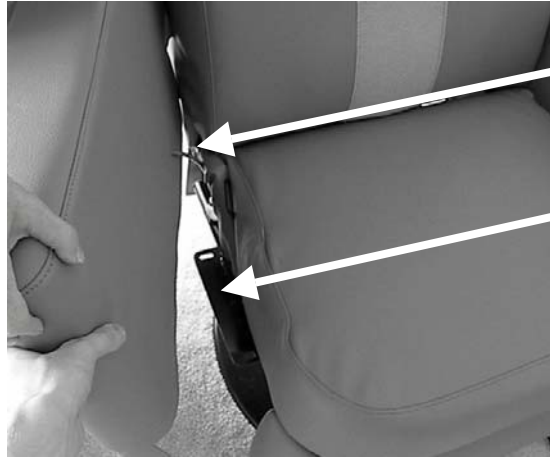
Figure 6 Clevis joint cover positioned over the clevis joint and supporting metal frame. Close the cover with the Velcro strips.

## 2. Right arm to seat frame:

The right arm has the power recline switch which operates the power recline module. The rounded end of the arm assembly faces towards the front of the chair. The zipper is on the underside and back of the arm.

- a. Remove both hand-bolts from the bottom of the right arm assembly.
- b. Position the right arm assembly on top of the L-bracket (attached to the right side of the seat frame)—as if you are sitting in the chair). Ensure that the power recline control cable is not caught between the arm assembly and the seat frame. The cable exiting the right arm assembly should pass over the seat frame and behind the metal frame that supports the clevis joint (see Figure 7).





Recline  
Control Cable

L-bracket

Figure 7 The right arm assembly is being held next to the right side of the chair to be placed on the L-bracket. Note the recline control cable as it exits the right arm assembly and is positioned properly over the back of the seat frame.

- c. Position the right arm assembly so that the holes in the L-bracket of the seat frame are aligned with the bolt holes in the bottom of the arm assembly. Insert the bolts and hand-tighten securely but do not over-tighten (see Figure 8).



Figure 8 The right arm assembly is being held on top of the right side L-bracket and is positioned properly so that the holes in the bottom of the arm assembly match the holes in the L-bracket so that the hand-bolts can be inserted and tightened.

- d. Connect the cable exiting from right arm assembly directly to the recline motor.



Figure 9 The recline control cable exiting the right arm connects directly to the recline motor.

- e. Connect the recline power cable originating at the left rear of the seat frame to the power cable attached to the front of the recline motor.



Figure 10 The recline power cable originating at the left rear of the seat frame connects to the power cable attached to the recline motor.

3. Seat pad to seat frame:

- a. Position the seat pad on the seat frame so that the front of the seat pad overhangs the front of the seat frame by about two inches. Ensure that the speaker cable does not get caught underneath the pad or between the pad and the chair back. The cable should rest on top of the back of the seat frame (see Figure 11).

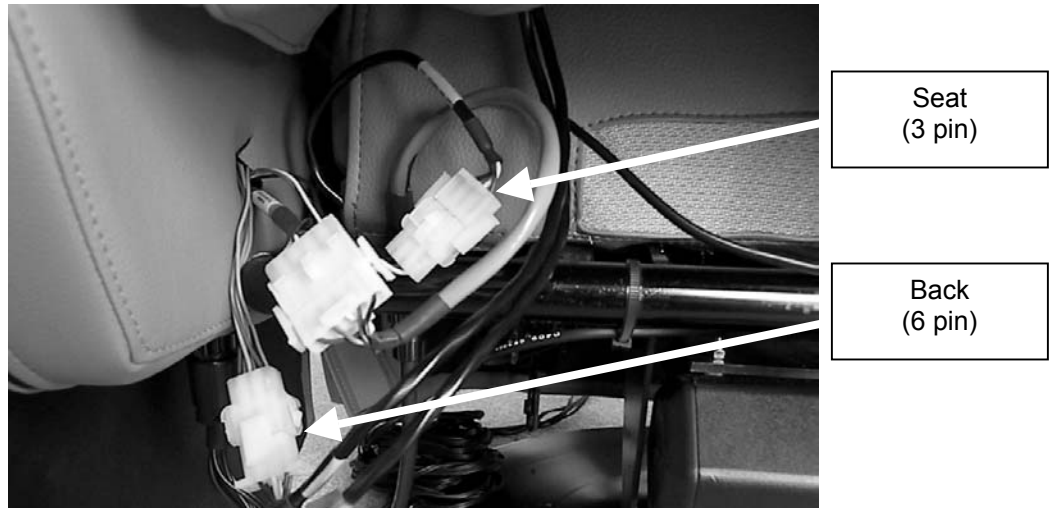


Figure 11 Speaker cables from the seat and back pad positioned behind the seat pad.

- b. Extend the leg rest by pulling on the “D” ring located on the inner aspect of the right arm next to the seat. You will notice a fabric flap attached to the leg rest at one end with a Velcro strip on the free end. Secure the Velcro strip to Velcro strip located on the underside of the seat pad that overhangs the frame (see Figures 12 and 13).



Figure 12 Free end of the flap of material attached to the leg rest.



Figure 13 Completed attachment of the free end of leg rest material to the bottom of the seat cushion.

#### 4. Left arm to seat frame:

The outer aspect of the left arm has a plate with an audio input connector, headphone connector and fan grate if there is an amplifier contained within. The rounded end of the arm assembly faces towards the front of the chair. The zipper is on the underside and back of the assembly.

- a. Remove both hand-bolts from the bottom of the left arm assembly.
- b. Position the left arm assembly on top of the L-bracket (attached to the left side of the seat frame—as if you are sitting in the chair). For chairs with an amplifier in the left arm, ensure that the exiting cables are not caught between the arm assembly and the seat frame. The cables should pass over the seat frame and behind the metal frame that supports the clevis joint.
- c. Position the left arm assembly so that the holes in the L-bracket of the seat frame are aligned with the bolt holes in the bottom of the arm assembly. Insert the bolts and hand-tighten securely but do not over-tighten.

If your chair does not have an amplifier enclosed in the left arm please proceed to step 5.

- d. Connect the two amplifier cables exiting from the left arm assembly to the speaker cables exiting from the seat (3 pin) and back (6 pin) pads.

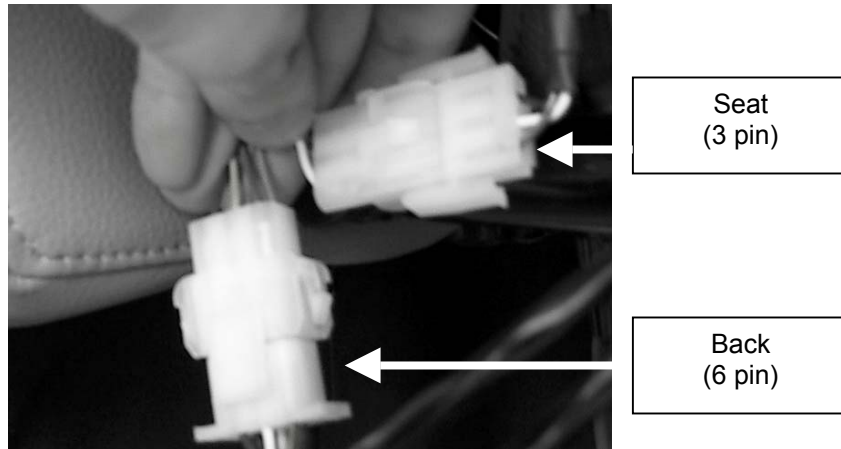


Figure 14 The seat (3 pin) and back (6 pin) speaker cables connect to the 3 and 6 pin amplifier cables exiting the left arm.

- e. Connect the amplifier power cable exiting the left arm to the amplifier power cable originating at the left rear of the seat frame.

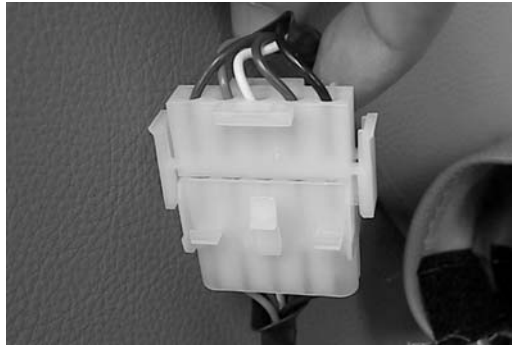


Figure 15 The amplifier power cable (5 pin) connects to the 5 pin amplifier power cable originating at the left rear of the seat frame.

## 5. Power supply and power supply cabling:

- a. Turn the power supply switch off ("O"). Place the power supply near an AC outlet.



Figure 16 View of the power supply with the AC plug attached and the power supply switch turned off (O).

- b. Plug the AC power cord into the power supply and then into the AC outlet.



Figure 17 Power supply plugged into an AC outlet with the DC cable ready to be connected to the BodySound chair.

- c. Plug the DC power cord from the power supply into the chair receptacle located on the underside of the chair at the left back section of the seat frame. Never place the base of the chair on top of the DC power cable as this could cause the cable to be cut.

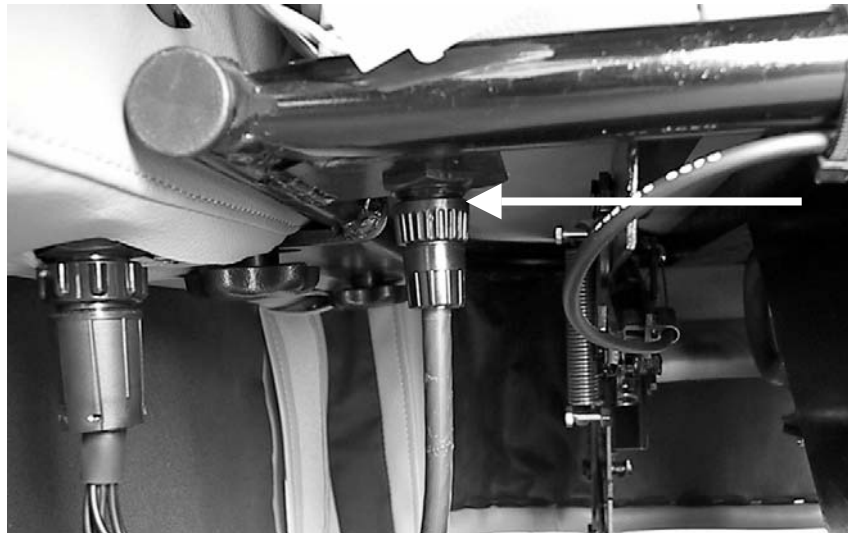


Figure 18 DC power cable connected to the BodySound chair.



- d. When you are ready to use your BodySound chair, turn the power supply switch to on ("I").

#### 6. BodySound Chair Internal Cabling:

If your chair does not have an enclosed amplifier, then the speaker cables exiting from the seat and back pads must be attached to an external amplifier in order to drive the speakers. Alternatively, if your chair does have an enclosed amplifier and you wish to drive the speakers from an external amplifier, you will also need additional cabling. Wiring diagrams for the speaker cables can be requested from BodySound Technologies, Inc. directly if needed.

### **Chair Operation:**

Even without the amplifier and speakers, the BodySound chair has a number of sophisticated mechanisms. It contains a swivel with 180 degrees of movement, near horizontal power recline, extendable leg rest, and a heavy-duty, double-torsion, rocking spring.

#### 1. Power Recline:

Power recline operation:

The switch on the outer aspect of the right arm allows the back of the chair to be placed in a more reclined or upright position.

- Pressing the switch downward will cause the back of the chair to move back and down, assuming a more reclined position.
- Pressing the switch upward will cause the back of the chair to move forward and up into a more upright position.

#### 2. Leg Rest:

The leg rest release mechanism ("D" ring) is located between the right arm and the seat pad towards the back. When you pull the release the leg rest will extend.

To close the leg rest, place pressure on it until it snaps shut.

#### 3. Maintenance:

Every six months the following bolts should be checked for tightness:

Check and hand tighten the four hand-bolts securing the left and right arms to the seat frame if necessary. If you can wiggle the arms in and out, then these bolts are too loose.

Check to see that the detent pin that secures the lower end of the power recline module to the bracket that supports the recline module is inserted through all holes. If it is not then insert it through all three holes. See Figure 4.

**The following bolts/nuts should only be tightened if they are loose.**

To check these bolts/nuts you must remove the seat pad. To do so, carefully slide the seat pad forward slightly to allow access to the seat speaker cable. Disconnect the seat speaker cable from the seat amplifier cable. Release the leg rest and detach the free end flap attached to the foot rest from the bottom of the seat pad. Now you can remove the seat pad. After you have performed the following maintenance, please follow step 3 in the assembly procedure to position the seat pad and reconnect the seat speaker cable and free flap of the foot rest.

On the underside of the seat frame check visually and with your fingers to see that there is no looseness of the six U-bolts (twelve nuts) that secure the free ends of the double torsion spring to the seat base.

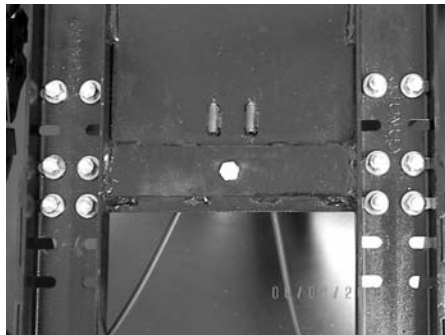


Figure 19 With the seat removed, visually inspect the twelve nuts securing the six U-bolts. The six U-bolts can be seen if you look on the underside of the seat frame.

Check to see that there is no looseness in the four bolts that secure the torsion spring retaining plate to the swivel plate and the four bolts that secure the swivel plate to top of the pedestal. If any of these bolts are loose you may notice that when you rock back or forward the back and seat portion of the chair will lean to one side on the base (see Figure 20).



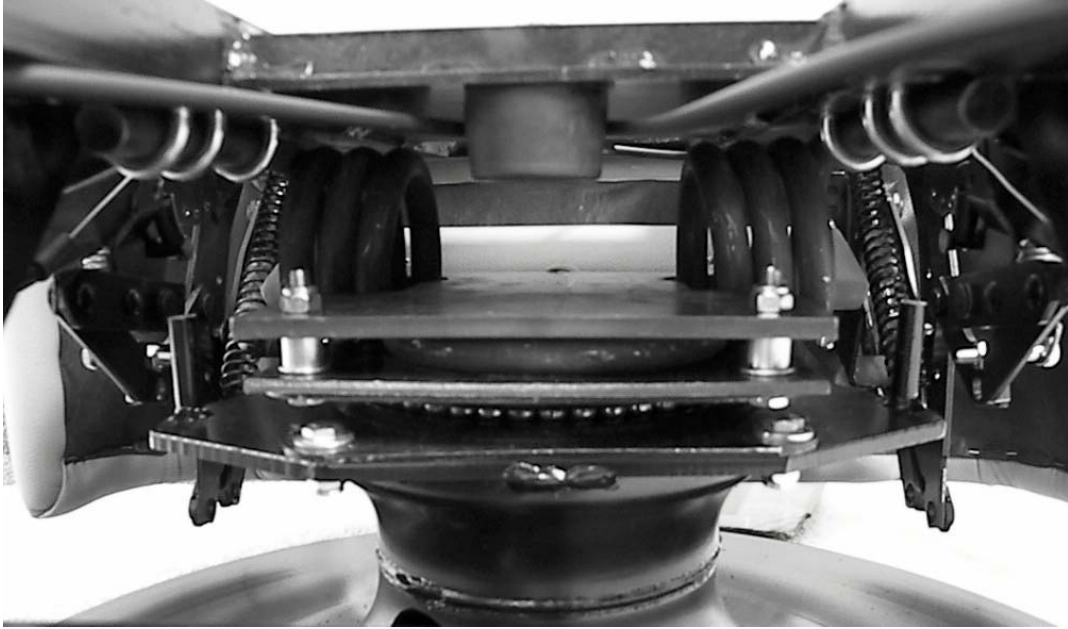


Figure 20 View from the back showing two bolts connecting the torsion spring retaining plate to the top of the swivel plate and two bolts connecting the bottom of the swivel plate to the pedestal.

**If there is any looseness of any of the twelve nuts that secure the six U-bolts, the four bolts that secure the torsion spring retaining plate to the swivel plate, or the four bolts that secure the swivel plate to the pedestal, then tighten the loose bolts/nuts securely. Swivel the chair on the base about 45 degrees to gain better access to the bolts and nuts attached to the swivel plate as necessary.**

#### **BodySound Amplifier Operation:**

The amplifier, when present, is contained within the left arm assembly. On the outer side of the armrest there is a plate that supports one stereo 3.5mm audio input jack and one headphone jack. Additional audio inputs are located on the bottom of the left arm. A grate located below the audio input and headphone jacks on the outer side of the arm allows the release of warm air from within the left arm assembly. There is a fan behind the grate that blows air out. Cooler air is drawn up from the underside of the armrest. **Do not place anything under the armrest or against the fan grate that could block the flow of air, as that could cause over-heating and damage to the amplifier. Do not spray any liquids into the grate or the hole in the underside of the arm. Placing any objects under either armrest could also impede the chair's rocking motion and cause damage to the arm assembly.**

#### Audio Input Modes & Connections to Your Home Entertainment Equipment

There are three input modes that are selectable with your remote control. They are Theater, Stereo, and Wireless. Depending upon how you connect the BodySound chair to your home entertainment equipment you can play stereo music using any input mode, but you can only have surround sound capability in Theater mode.

To use Theater mode connect the twenty-five foot Theater cable to your equipment. It has a ten pin connector on one end and four pairs of phono plugs on the other end. The four pairs are labeled Head, Back, Seat, and Stereo. These phono plugs must be inserted into the preamp outputs of your home entertainment equipment.

The recommended method of connection is as follows:

#### Preamp outputs on the back of Receiver

Right and Left Surround channels  
Front Right and Left channels  
Center channel  
Subwoofer Optional

#### Phono Plugs

Head (right & left)  
Back (right & left)  
Seat (right **OR** left)  
Seat (right **OR** left)

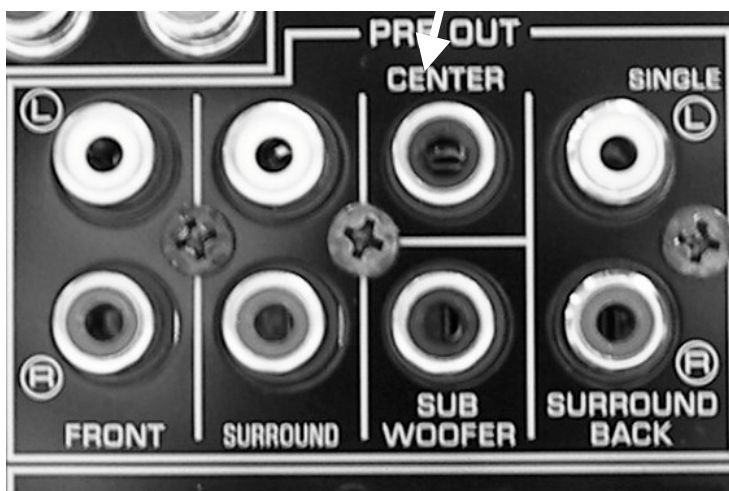
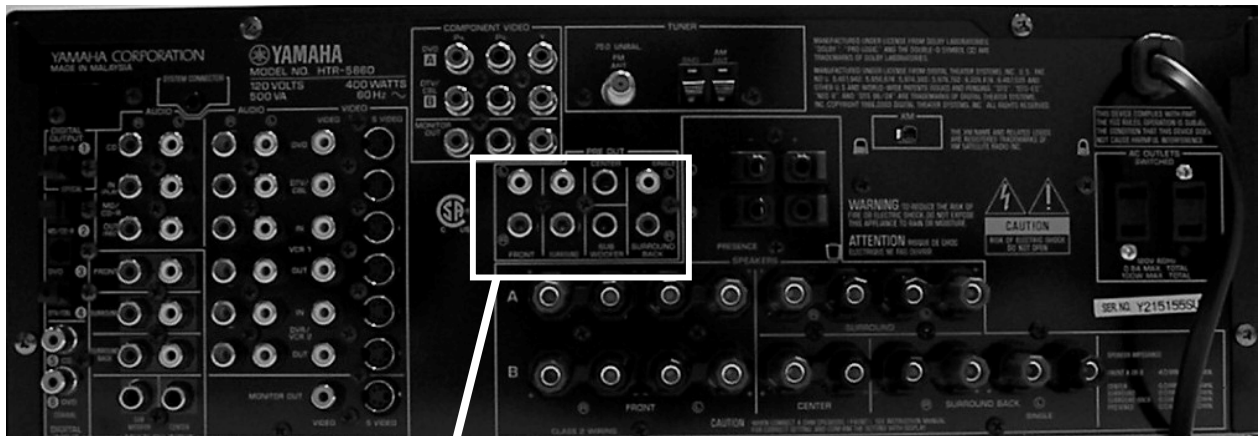
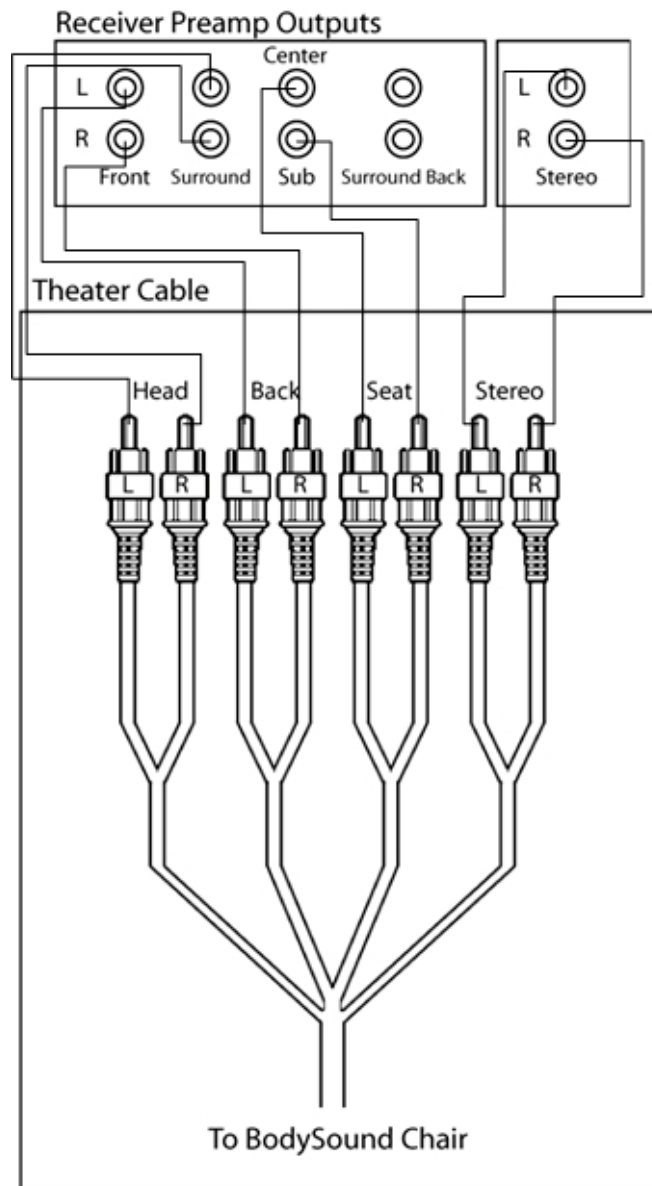


Figure 21 Component Pre-amp outputs from an AV Surround Receiver. The leftmost pair are Front left (white) and right (red), the next pair are left and right Surround and the Center channel is the single jack above the Sub Woofer jack. You do not need to connect to the Surround Back outputs.

## Receiver Outputs to Theater Cable



This configuration will maintain dialogue in front of you and surround effects behind you consistent with your existing surround sound equipment.

Using these same connections you can play stereo music in Theater mode providing you have your CD or DVD player hooked up to your surround receiver. Remain in Theater mode and simply change the program or operating mode on your surround receiver to 7 channel stereo. That will send the stereo signals out the preamp connections that you have already made. You can also watch TV in Theater mode by using the program

mode on your receiver that you use for movies or the 5 or 7 channel stereo mode if you want to hear voices from the head speakers.

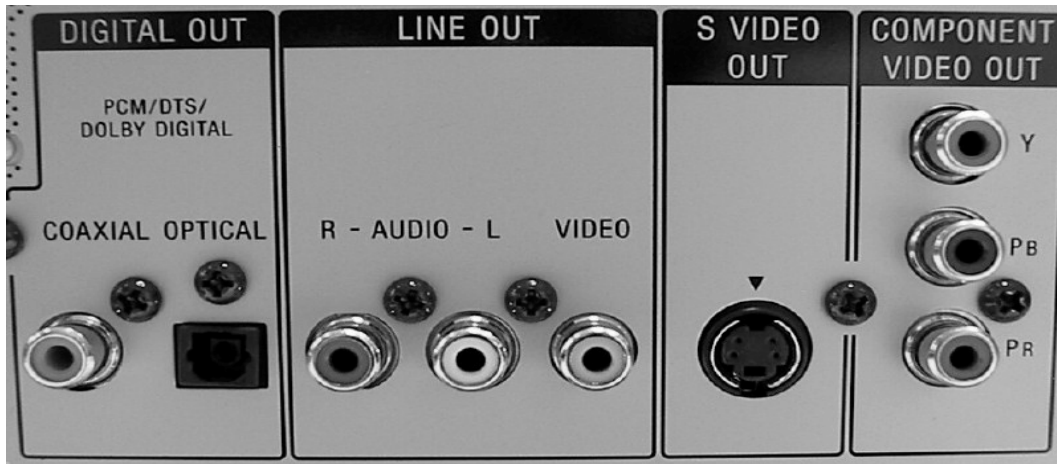


Figure 22 Stereo outputs labeled as R – Audio – L line out.

You may have noticed that there is also a pair of stereo phono plugs on the Theater cable. We recommend that you plug those directly into the left and right preamp outputs of whatever equipment you use to play CDs (Figure 22). That will typically be your DVD or CD player. To use this connection select Stereo mode as your input setting using the remote control. In this way you have the option of listening to music through the BodySound chair while muting your surround sound equipment.

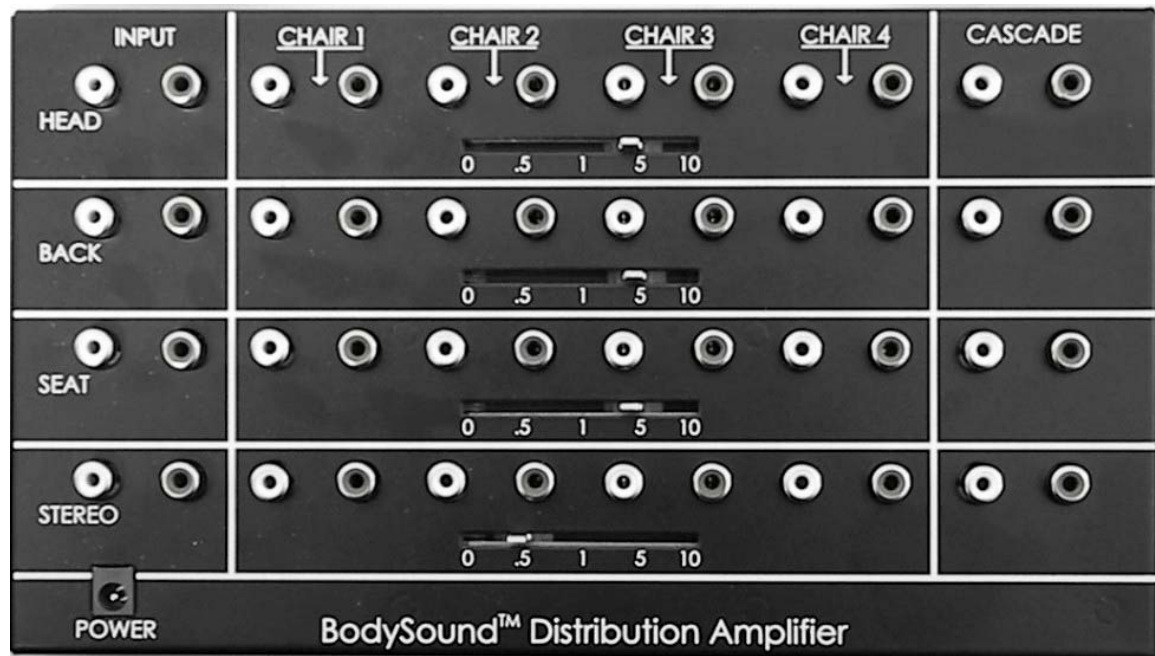
There is another stereo connection on the outside of the left arm that is designed primarily for portable equipment (MP3 player, portable CD disc players, Laptop, etc.). A four foot cable is provided that has a 3.5mm stereo plug on each end. When this 3.5mm input jack is occupied, it will take precedence over the other wired stereo input (in the theater cable).

A 5.8 GHz BodySound Wireless Transmitter (Figure 23) can also send stereo signals directly to the built in wireless stereo receiver in the left arm. The wireless transmitter must be connected to left and right stereo preamp outputs of the equipment playing the audio source (receiver, DVD player, or TV). For the BodySound chair to use the wireless stereo audio source, the user must select the Wireless mode as the Input setting using the remote control.



Figure 23 BodySound Wireless Transmitter.

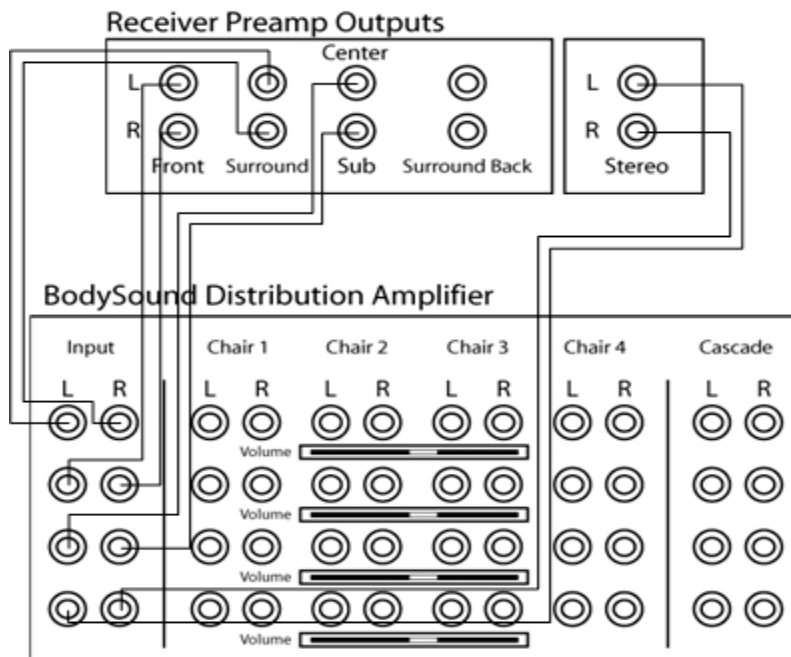
The BodySound Distribution Amplifier:



The BodySound distribution amplifier is an optional device that is recommended if you have more than one BodySound chair in the same location or if the signals from your home entertainment equipment are insufficient to allow for proper calibration (see Calibration procedure).

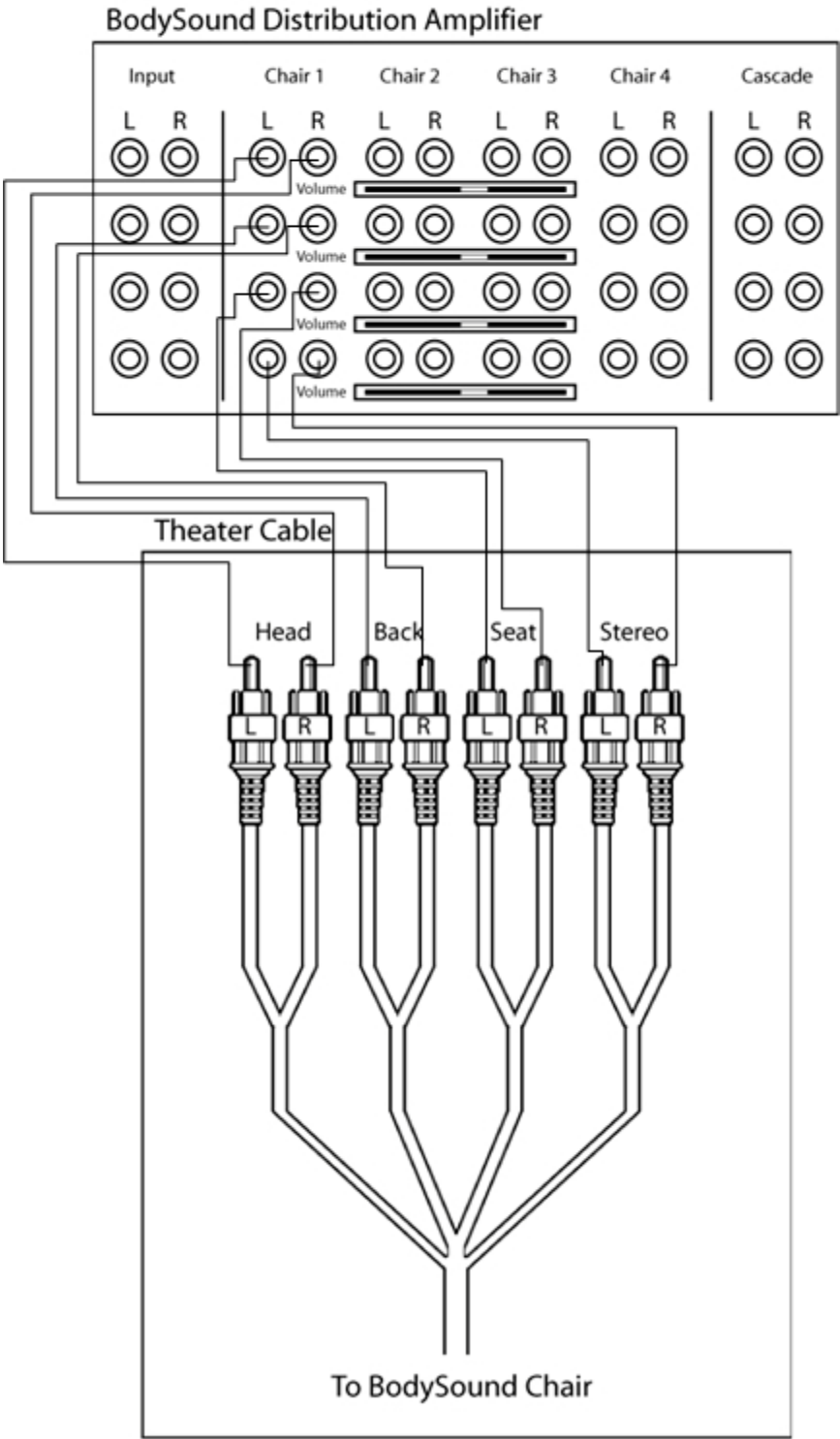
This device is an intermediary signal amplifier or attenuator in that it can either boost or diminish the signal output before it is transmitted to the BodySound chair or BodySound Wireless Transmitter. The BodySound distribution amplifier is also a router that can send outputs to up to four BodySound chairs and also to another BodySound distribution amplifier if you have more than four BodySound chairs in the same location.

Separate cabling is supplied with the BodySound distribution amplifier to connect to your home entertainment equipment. The input connections to this device from your entertainment equipment are as outlined in the section on connections to home entertainment equipment. The chair outputs should be connected to the BodySound chair(s) using the twenty-five foot theater cable.

Receiver Outputs to  
Distribution Amplifier



Distribution Amplifier Connection to Theater Cable



## Remote Control Functions

### Setting up a unique identifier between a remote control unit and a BodySound chair:

Before a remote control unit can communicate and control a specific chair it must be setup to do so. Use the following setup procedure:

- Turn off all other BodySound chairs in the room.
- Make sure the power supply to the chair you are using is turned on ("I").
- Put batteries in the remote control unit or press the on/off key if batteries are present.
- Press and hold both left and right arrow buttons down on the remote until SYSID (system identification) appears on the display.
- Use the up and down arrow keys to select a number from 1 to 50. Do not select a number that you have previously used for the SYSID for another BodySound chair.
- Once you have selected a number press the display key. Once communication has been established between the remote control and amplifier, a db (decibel) sound level will be displayed. **Tip: If you have more than one BodySound chair, you may find it helpful to tape the SYSID number on the back of the remote control and the underside of the head pillow for quick identification.**

This procedure can be repeated whenever you wish to change the SYSID number.

The remote control unit transmits to and receives signals from the amplifier using radio-frequency communication at 433 MHz. You do not need to point the remote at the amplifier like an infrared remote control unit. If you have more than one BodySound chair you will need to key each remote control unit to a specific chair to avoid operating more than one chair with a single remote control. After setting a unique identifier you will control only the chair you are using and not any others.

An LCD display is located at the top of the remote control. This display can show you the current sound level or decibel level (db) that the chair is producing through only the BodySound speakers. When you occupy the chair the sound that is heard tends to be lower (can be significantly lower depending on body mass) than the reported value as your body is blocking some of the sound volume. However, sound volume is also produced from the head speakers, which are not accounted for on the LCD. The sound volume produced by the head speakers can cause the volume experienced by the user to be higher than reported on the LCD. Please see the Precautions section for more information.

The display also shows the menu settings that can be modified (described below). To conserve power, the LCD display turns off automatically approximately 5 seconds after the last button press (quiet mode). When the remote is in quiet mode pressing any key will activate it. When the batteries are low (below 2.3 volts) the LCD will display "Low Batt."

To keep the display and the remote unit active at all times (active mode), press the Display button three times in succession. To allow the display to re-enter quiet mode,



press the Display button three times when it is in active mode. **Tip: The preferred mode of operation is quiet mode, which will greatly prolong the battery life.**

- e. Up/Down Arrows    b. Mute    c. Display    g. Balance Rocker Switch



- a. On/Off    d. Select Forward and Backward    f. Sound Number

#### Buttons:

When the remote is functioning in quiet mode, the first time any button is pressed will cause the remote to “wake up.” Subsequent button presses will accomplish the desired function. You will likely see the message “System On” for a second or two while the remote is “waking up.” Once it does it will display the current db level.

##### a. On/Off:

The on/off button will turn the amplifier on when it is off and turn the amplifier off when it is on. If the remote is in active mode and the amplifier is on, pressing the on/off button will return the remote to quiet mode in addition to turning the amplifier off. The fan will continue to run for fifteen minutes after the amplifier has been turned off to cool the unit.

##### b. Mute/Un-mute:

Pressing this button will toggle between muting the sound and un-muting the sound from all of the speakers. The mute function will not affect headphone sound. After un-muting the amplifier, the sound will ramp up gradually over approximately two to three seconds to allow you to accommodate to the current sound setting and to avoid excessive volume.

c. Display:

Pressing the display button will cause the LCD to display the current db level. Pressing the display button three times in succession when the remote is in quiet mode will cause the LCD to display constantly and keep the remote control in active mode. When in active mode, pressing the display button three times in succession will cause the remote to return to quiet mode.

d. Select forward and backward:

Pressing the forward and backward buttons (right and left arrows) will scroll through the menu fields forward and backward.

e. Up/Down arrows:

Pressing the up or down arrow keys will change the values of the currently displayed menu item accordingly.

Pressing these keys first without a currently displayed menu item will cause the volume setting of the BodySound speakers to change up or down if the SoundNumber system is disabled. If the SoundNumber system is enabled (you are running with the automatic volume adjustments in progress) then pressing the up and down arrow keys will cause the Headbias setting to be modified up or down. When the SoundNumber system is enabled both the BodySound and Head speaker volume settings are under automatic control and these settings are no longer available menu options.

f. SoundNumber™ rocker switch (left rocker switch):

This rocker switch will adjust the SoundNumber up or down when the SoundNumber system is enabled. When this function is not enabled the LCD will display "DISABLED" when the rocker switch is pressed once. When the SoundNumber system is disabled, pressing this switch repeatedly will enable the SoundNumber system and begin to change the SoundNumber setting. You can scroll between values of 50 to 90 db to customize your SoundNumber setting.

g. Balance rocker switch (right rocker switch):

This rocker switch will shift the volume of the BodySound speakers (this does not include the head speakers) either more towards the back (top of the switch) or more towards the seat (bottom of the switch). The range of settings varies from SEAT 5 to CENTER to BACK 5.

Menu Parameters:

1. BODY VOL – BodySound volume (range from 1 to 99). This setting controls the volume level of the BodySound speakers (the two speakers in the seat and the two speakers behind the spine). This menu item is not shown when the SND# SYS is ENABLED, as these speakers are then under automatic control.

2. HEAD VOL – Head speaker volume (range from 1 to 99). This setting controls the volume of the head speakers (the pair of speakers behind your shoulders). This menu item is not shown when the SND# SYS is ENABLED, as these speakers are also under automatic control. Whenever headphones are plugged into the headphone jack on the outer side of the left arm behind the audio input connector, the head speakers are deactivated and then this setting will apply to headphone volume.
3. HEADBIAS – Head speaker bias (range from -15 to 0 to +15). This function is used when the automatic volume function (the SoundNumber system—SND# SYS) is ENABLED. This setting either decreases or increases the relative volume of the head speakers or headphones. When this setting is left at zero, there is a fixed volume ratio that exists between the BodySound and Head speakers or headphones. That ratio can be biased when using this setting. If you prefer that the head speakers or headphones are quieter when using the SoundNumber system then bias the sound lower by using a negative HEADBIAS setting. Alternatively, if you like the sound louder then use a positive HEADBIAS setting. This menu item is not shown when the SND# SYS is DISABLED because in that situation you have individual control over the BodySound (BODY VOL) and Head (HEAD VOL) speakers.
4. SWITCHES – ENABLED or DISABLED. Pressure sensitive switches located in the seat and back can control whether or not the seat or back speakers are on or off. If you select DISABLED then the speakers will play regardless of whether or not anyone is sitting in the chair when it is on. If you select ENABLED then pressure must be applied to the seat in order for the seat to play and the back in order for the back to play (including head speakers, but not headphones—headphones will play even if the user does not apply pressure to the back). If pressure is applied to only the back, the chair assumes you are seated and so all the speakers in the seat and back will play.

When the SWITCHES setting is ENABLED you can turn on the BodySound chair by simply sitting on the chair provided the power supply is plugged into an AC outlet and the power supply is turned on. The chair will run using the last settings that were in use. When the SWITCHES setting is ENABLED the chair will turn itself off when it is unoccupied for fifteen minutes. The automatic on/off functioning will not occur when the SWITCHES setting is DISABLED. You must manually turn off the chair when the SWITCHES setting is DISABLED. To do so, press the on/off button on the remote.

Sitting on the chair when the SWITCHES setting is ENABLED, causes the sound to ramp up gradually over approximately two to three seconds to allow you to accommodate to the current sound setting.

When you want to use the BodySound chair as only a chair, set the SWITCHES setting to DISABLED. In doing so, the chair will remain off when you sit on it after it has previously been turned off.

5. BODY BAS – BodySound speaker bass (range from -7 to 0 to +7). This setting controls the level of bass in the four BodySound speakers.

6. BODY TRB – BodySound speaker treble (range from -7 to 0 to +7). This setting controls the level of treble in the four BodySound speakers.
7. HEAD BAS – Head speaker bass (range from -7 to 0 to +7). This setting allows you to set the amount of bass you experience in the two head speakers or headphones if in use.
8. HEAD TRB – Head speaker treble (range from -7 to 0 to +7). This setting allows you to set the amount of treble you experience in the two head speakers or headphones if in use.
9. HEAD BAL – Head speaker balance (range from LEFT 5 to CENTER to RIGHT 5). This setting allows you to adjust the balance between the two head speakers or headphones if in use.
10. SETTINGS SAVE – range from 1 to 9. This function allows you to save up to 9 entire sets of settings to be restored later. Use the up and down arrows to select a number and then press either the left or right arrow buttons or the display button to exit the menu.
11. SETTINGS RESTORE – range from 1 to 9. This function allows you to restore previously saved settings. Use the up and down arrows to select a number and then press either the left or right arrow buttons or the display button to exit the menu.

## 12. The **SOUNDNUMBER™** System

SND# SYS – SoundNumber System – ENABLED or DISABLED. This setting toggles the SoundNumber system on and off.

### Choosing Your SoundNumber Setting

The BodySound chair provides you with the ability to set a sound level number to automatically regulate volume and personalize your sound space. Sound tracks on videotapes, DVDs, and broadcast transmission have a wide range of volume levels. As a result, in order to hear all of the conversation or soundtrack without having sound exposure at other times that is too high often requires frequent volume adjustments by the viewer/listener. The microprocessor within the BodySound chair can automatically make the adjustments for you based upon your setting.

When you are watching a movie and you notice that you're unable to hear the dialogue or if the volume has become too loud, press the Display button on the remote and look at the readout on the display. You will quickly begin to recognize sound levels that are too low and too high for you. This information will allow you to set the SoundNumber value that will work best for you. The system will automatically decrease the volume when the volume becomes excessive and increase the volume when it becomes too low.

Once you get used to the SoundNumber system you will use the SoundNumber rocker switch instead of adjusting the individual volume settings (BODY VOL and

HEAD VOL), but much less frequently—that's the benefit. When using the SoundNumber system remember that you can use the HEADBIAS setting to customize the relationship between volume from the BodySound speakers and volume from the head speakers.

13. INPUT – Audio source (Theater, Stereo, or Wireless).

**Note: The quality of the sound produced by the BodySound chair is somewhat dependent upon the audio source that you connect it to. The sound output from the preamp connections of different AV Surround or Stereo Receivers, DVDs, VCRs, TVs, etc. produce different sound quality and have a variable degree of signal strength (voltage output from their preamp outputs). It is important that you understand the information contained in this section in order to ensure that you experience the best possible sound from your BodySound chair. You should be able to achieve excellent, distortion-free sound, although in some instances an external BodySound Distribution Amplifier will be required.**

Theater mode instructs the BodySound chair to amplify the surround sound inputs it receives from the surround sound outputs from your home entertainment equipment (typically your AV Surround Receiver). Use the portion of the theater cable with phono plugs labeled Head, Back, and Seat on one end to connect to your AV Surround Receiver (plug into the surround sound component preamp outputs) or BodySound Distribution Amplifier (Head, Back, and Seat outputs). The other end of the cable connects to the ten pin connector on the underside of the left arm. The theater cable should be routed underneath your carpeting, under the base of the chair, out the exit hole in the neck of the base, and connected to the underside of the left arm. **Allow enough slack in the cable outside the base so that the chair can swivel full range without pulling on the cable.**

The recommended method of connection for surround sound compatibility is as follows:

<u>Preamp outputs on the back of your Receiver</u>	<u>Phono Plugs</u>
Right and Left Surround channels	Head (right & left)
Front Right and Left channels	Back (right & left)
Center channel	Seat (right <b>OR</b> left)
Subwoofer	Seat (right <b>OR</b> left)

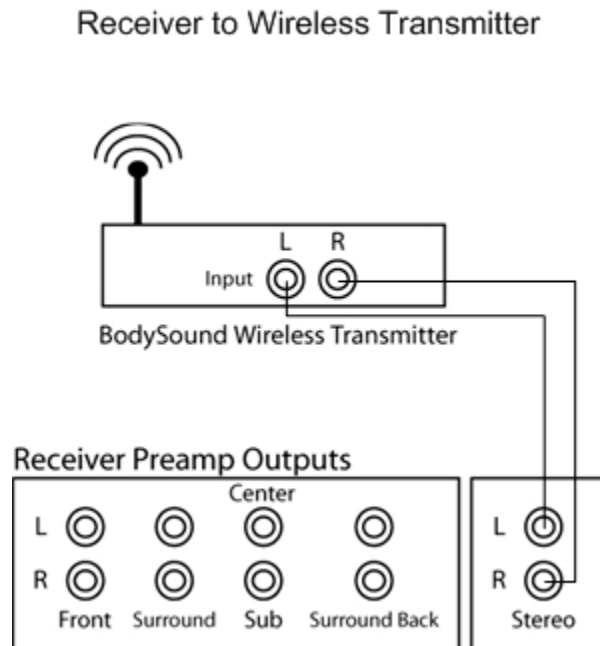
This configuration will maintain dialogue in front of you and surround effects behind you consistent with your existing surround sound equipment. When in Theater mode, headphone usage will only allow you to hear the surround channels, as they have been routed to the head speakers and so there will not be any dialogue heard through the headphones. Therefore, headphone usage should be reserved for Stereo or Wireless modes.

Stereo mode instructs the BodySound chair to amplify the stereo inputs (right and left) it receives from the stereo outputs of your home entertainment equipment. Use the portion of the theater cable with phono plugs labeled Stereo (right and left) on one end to connect to the right and left stereo preamp outputs

on your home entertainment equipment or the stereo outputs of your BodySound Distribution Amplifier. The other end of the cable connects to the ten pin connector on the underside of the left arm.

Note: If you are connected to an AV Surround receiver you may receive the best stereo sound quality by simply selecting the 5 or 7-channel stereo function on your surround receiver, while leaving your BodySound input mode setting on Theater mode.

Wireless mode instructs the BodySound chair to amplify the input from the wireless stereo receiver (built in to the BodySound amplifier in the left arm) it receives input from the BodySound Wireless Transmitter. **A BodySound Wireless Transmitter is required** and must be connected to the right and left stereo outputs of your home entertainment equipment that will provide the audio source (Receiver, DVD, VCR, TV, CD, etc.) or the stereo outputs of your BodySound Distribution Amplifier.



#### Preamp Settings:

Each mode of operation (Theater, Stereo, and Wireless) has an associated Preamp level setting. This value can range from 1 to 25, however, the preferred range is from **5 to 10**. When not using a BodySound distribution amplifier, this setting will vary depending upon the equipment that the chair is connected to. For instance, a DVD player that has a high voltage preamp output will require a low preamp setting on the BodySound chair to avoid distortion, while a receiver with a low voltage preamp output will require a high preamp setting on the BodySound chair to produce higher volumes.

Some home entertainment equipment have such high voltage outputs that the signal must be attenuated before it enters the BodySound chair circuitry, while

other equipment may have signals so low that they must be amplified. In these instances a BodySound distribution amplifier will be required to either attenuate or amplify the signal before it is transmitted to the BodySound chair. The following calibration procedure will inform you if the signal from your home entertainment equipment requires conditioning (attenuation or amplification).

#### Preamp Calibration Procedure:

Your BodySound chair must be cabled to your home entertainment equipment before this procedure can be performed. This procedure must be performed separately for Theater mode, Stereo mode, and Wireless mode.

<u>Input Mode</u>	<u>Type of Equipment</u>	<u>Cable leads</u>
Theater	AV Surround Receiver	Head, Back, & Seat
Stereo	Receiver, DVD or CD player, or TV	Stereo
Wireless	Receiver, DVD or CD player, or TV	Wireless Transmitter

- A. Put the BodySound Calibration CD into a DVD/CD player that sends its output to the input of your AV Surround Receiver.
- B. Turn the volume on your AV Surround Receiver to minus (-) 30 db. Make sure that your receiver is in the Surround mode that you typically use for watching movies on DVD.
- C. Turn your BodySound Chair on and disable the seat switches.
- D. Select the Input mode that you wish to calibrate with your BodySound remote control—Theater, Stereo, or Wireless. After you select the Input mode the next item that will appear will be the Preamp setting. Accept that by pressing the display button.
- E. Play the BodySound Calibration CD. You should hear the tones from the Calibration CD from your external speakers as well as from the BodySound chair.
- F. On the BodySound remote control, press and hold first the display button (middle button with the rectangle on it) and also the mute button until the screen changes and you see V=?? ?? . Sound from the chair will automatically mute. Release both buttons. The first number on the top line is the average percent full scale deflection. The second number is the percent of time that the signal exceeds 95% of full scale.

If you are using a BodySound distribution amplifier:

Leave the Preamp setting at the default value of 7. Begin with all slider switches at zero (left).

For Theater mode: Move the top three slider switches to the right until the average percent full scale deflection is approximately 50%. Wait about 15 seconds between adjustments for the measurement to stabilize. If the number is below 50% move the slider switch to the right and if it is above 50%, move it to the left.

For Stereo mode: Move the bottom slider switch to the right until the average percent full scale deflection is approximately 50%. Wait about 15 seconds between adjustments for the measurement to stabilize. If the number is below 50% move the slider switch to the right and if it is above 50%, move it to the left.

If you are not using a BodySound distribution amplifier:

Use the up and down arrows to adjust the preamp setting (initially set to 7).

If the average percent full scale deflection is above 50%, then reduce the preamp setting until the percent full scale deflection is approximately 50%. If you are unable to reduce this value to 50% you will either need to connect the BodySound chair to a preamp output on another piece of your equipment or you will need a BodySound distribution amplifier to attenuate the signal.

**Preamp settings lower than three** can result in sound distortion—static or tinny sounding music particularly noticeable in the head speakers, or reverberation particularly noticeable from the seat speakers or unclear dialogue. Low Preamp settings at times can also cause you to hear some audible shifts in volume that occur with automatic volume adjustments when using the SoundNumber system. These shifts in volume that accompany automatic volume changes are rarely noticeable at more acceptable Preamp settings.

If the average percent full scale deflection is lower than 50%, then increase the preamp setting until the average percent full scale deflection is approximately 50%. If you are unable to increase this value to 50% you will either need to connect the BodySound chair to a preamp output on another piece of your equipment or you will need a BodySound distribution amplifier to boost the signal.

**Preamp settings higher than fifteen** may result in a limitation of the volume of sound that the BodySound chair can produce. This limitation may make it difficult for you to achieve a high BodySound chair volume when your external speakers are producing a low volume level.

G. Repeat steps D. through F. for each Input mode.

## **PRECAUTIONS:**



**NEVER OPEN THE RIGHT OR LEFT ARM ASSEMBLY. THIS ACTION COULD VOID YOUR WARRANTY.**

**1. HEARING LOSS:**

Maintain the ambient sound level below 85 decibels (OSHA 3074) during usage to avoid hearing loss. The decibel readout that is displayed on the LCD is an approximation of the decibel level produced by the BodySound speakers only (not head speakers) when nobody is seated in the chair. When someone is seated on the chair a certain amount of that sound is blocked and therefore not transmitted to the user's ears through the ambient environment. However, excessive sound levels can be produced from the head speakers alone given the proximity of those speakers to the user's ears.

**2. POWER REQUIREMENTS:**

The BodySound chair with an enclosed amplifier requires DC power only and should receive DC power only from the power supply provided with the unit. Never attempt to plug AC power directly into the BodySound chair.

**3. NEVER PLACE THE BASE OF THE BODY SOUND CHAIR ON TOP OF POWER CABLES OR CORDS.**

Only speaker wires (the theater cable) should be placed underneath carpet that is beneath a BodySound chair. Placing power cables or cords under the base of the chair can cause them to be cut, potentially allowing DC or AC current to be transmitted directly to the chair frame. This can result in electric shock and death.

**4. DO NOT PLACE THE BODY SOUND CHAIR DIRECTLY ON TOP OF SPEAKER WIRES.**

Speaker wires can be placed underneath carpet that is beneath a BodySound chair, but not directly under the base of the chair.

**5. UNDO FORCE:**

Do not walk, step on, or jump on the BodySound chair. Do not sit on the arms of the chair. Avoid excessive pressure on the speaker positions of the back pad and the front ten inches of the seat pad, as that can potentially damage the speakers. Do not sit in the BodySound chair with sharp objects in your back pockets.

**6. USAGE:**

Only one person should use the BodySound chair at a time. Children should not use this product without adult supervision.

**7. WEIGHT RESTRICTION:**

Do not sit in the BodySound chair if you weigh more than 300 pounds.

## 8. CONSUMERS WITH PACEMAKERS:

As with any product that produces a vibrating motion, it is possible that some pacemakers may interpret this motion as a false sense of movement and/or exercise. This may or may not affect your pacemaker. Consult your physician before use.

### Troubleshooting:

#### No sound is generated by the BodySound chair.

1. Can you feel air coming out of the fan grate on the outer aspect of the left arm? If so, then skip to #2, otherwise check items 1.a. – 1.e. and take any required actions.
  - a. Is the power supply turned on? **Tip:** Even if it is on, turn it off and then on again.
  - b. Is the power supply plugged into an AC outlet that is active?
  - c. Is the DC cable from the power supply firmly plugged into the power connector in the chair?
  - d. Are the amplifier power cables connected?
  - e. Is the chair turned on using the remote control?
2. Is the SWITCHES setting enabled or disabled? If enabled you need to be sitting in the chair in order for sound to be produced. **Tip:** Use the remote control to disable the SWITCHES setting to see if the chair turns on or sit in the chair (assumes that the SWITCHES setting is enabled).
3. Do you hear appropriate sound from other external speakers that are connected to the equipment generating the sound? **Tip:** If not, is the equipment providing the sound turned on or has the sound generating equipment been set to mute?
4. Is the volume setting too low? **Tip:** Use the remote control to check either the SoundNumber setting (rocker switch) if the SoundNumber system (SND# SYS) is enabled or the BODY VOL and HEAD VOL settings if the SND# SYS is disabled. If the appropriate setting is too low then increase it.
5. Are the two connections properly made between the amplifier speaker cables and the speaker cables extending from the seat and back pads? **Tip:** Check to see that the speaker cables are well connected.
6. Is the signal input too low? **Tip:** Run step F of the Preamp Calibration Procedure to determine if the signal input is too low. If there is no or very little signal (average percent full scale deflection < 10) then check #7 (there is a mismatch between the Input setting and the home entertainment equipment that is generating the sound) and if necessary proceed to #8 (the sound generating equipment is not properly connected to the BodySound chair).
7. Is the Input mode setting appropriate to the sound generating equipment that you are playing? **Tip:** Make sure that you are in the appropriate mode (Theater, Stereo, or Wireless) for the sound generating equipment that is providing sound for that mode. Use the remote control to switch between Input modes to check if sound is produced in any of the Input modes. You may wish to review the section on Connections to Peripheral Equipment. As you are switching between input modes make sure the preamp settings are above three.

8. Are the connections between the sound generating equipment and either the BodySound chair, BodySound Distribution Amplifier, or BodySound Wireless Transmitter secure and correct? **Tip:** If in Wireless mode, please make sure that the Wireless Transmitter is also plugged and that when it is transmitting the green light on top is working. If the green light is not lit, unplug the power adapter from the AC outlet and the Transmitter and once again plug both connections back in. Also check the right and left stereo connections between the sound generating equipment and the BodySound Wireless Transmitter.

**No sound is generated by some of the BodySound speakers.**

1. Are the two connections properly made between the amplifier speaker cables and the speaker cables extending from the seat and back pads? **Tip:** Check to see that the speaker cables are well connected.
2. Is the SWITCHES setting enabled or disabled? If enabled you need to be sitting in the chair and leaning against the back in order for sound to be produced from all parts of the chair. **Tip:** Using the remote control, disable the SWITCHES setting to check if all of the speakers are working.
3. Are the balance settings skewed too much to one side or the other? **Tip:** Check the BodySound balance setting (rocker switch) and the head speaker balance setting and adjust as necessary.
4. Are the volume settings too low? **Tip:** Check the SoundNumber setting (rocker switch) if the SoundNumber system (SND# SYS) is enabled, otherwise check the BODY VOL and HEAD VOL settings and increase as necessary.

**The sound is distorted (sound is tinny, mixed with static, or there is reverberation) or the dialogue is garbled or isn't as clear as it should be.**

Are the two connections properly made between the amplifier speaker cables and the speaker cables extending from the seat and back pads? **Tip:** Check to see that the speaker cables are well connected.

Is the Preamp setting too high or is the signal input too high? **Tip:** You can follow two different procedures listed below (#1 or #2).

1. Using the remote control, go to the Input setting.
  - A. Press the up arrow once to move to the next selection and then press the down arrow once to move back to the Input setting that you have been using.
  - B. Press the right arrow to see the Preamp setting for that Input mode. If the Preamp setting is three or lower proceed to step D.
  - C. Decrease the Preamp setting by one level using the down arrow button and replay the portion of music or soundtrack that sounded distorted, while listening for distortion. If you no longer hear distortion, press the display button to accept this new Preamp setting. If you still hear distortion, continue to decrease the Preamp setting one level at a time and listen for distortion. When you no longer hear distortion press the display button to accept this new Preamp setting.
  - D. If you reach a Preamp setting of three and you still hear distortion, then the signal input from your entertainment equipment or the BodySound Distribution Amplifier is too high. Please run the Preamp Calibration Procedure.

### **The sound volume is too low when using the SoundNumber system.**

1. Is your SoundNumber setting too low? **Tip:** Use the SoundNumber rocker switch to check the setting and if necessary increase the SoundNumber setting.
2. Is the volume still too low based upon your SoundNumber setting? **Tip:** Change the SND# SYS setting from enabled to disabled and check to see what the BODY VOL setting is set to. This setting will reflect the BodySound volume that the BodySound amplifier has set itself to in order to achieve your desired SoundNumber setting.
  - Is the BODY VOL setting above 95? **Tip:** If so then either the Preamp setting is too low or the voltage input signal is too low. Run the Automatic Preamp Calibration Procedure.
  - Is the BODY VOL setting below 95? **Tip:** If so, then check the following:
    - Is the BodySound balance setting between the back and seat (balance rocker switch) set so that most of the sound is coming out of the back? If too much sound is directed to the back then the volume in the ambient space may be too low, especially if the volume from the head speakers is too low. **Tip:** Direct more sound to the seat using the balance rocker switch.
    - Is the HEAD VOL setting too low? **Tip:** If the volume coming out of the head speakers is too low then increase this setting using the HEADBIAS setting when using the SoundNumber system.
    - Is there no sound from some of the speakers? **Tip:** Check the speaker connections between the amplifier and pad speaker cables to see that the connections are secure.

### **The sound volume is too low when you are not using the SoundNumber system.**

1. Is the BODY VOL setting above 95? **Tip:** If so then either the Preamp setting is too low for that input mode or the voltage input signal is too low. Run the Automatic Preamp Calibration Procedure.
2. Is the BODY VOL setting below 95? **Tip:** If so, then check the following:
  - Is the BodySound balance setting between the back and seat (balance rocker switch) set so that most of the sound is coming out of the back? If too much sound is directed to the back then the volume in the ambient space will be lower. **Tip:** Direct more sound to the seat using the balance rocker switch.
  - Is the HEAD VOL setting too low? **Tip:** If the volume coming out of the head speakers is too low then increase this setting.
  - Is there no sound from some of the speakers? **Tip:** Check the speaker connections between the amplifier and pad speaker cables to see that the connections are secure.

### **The level of vibration or resonance seems to have diminished.**

1. Is the level of vibration or resonance reduced in the seat, back, and arms? **Tip:** Check BODY VOL or SoundNumber setting, BODY BAS, BODY TRB, and BodySound balance (rocker switch) to determine if those settings have changed from your preferences. Make adjustments as necessary.

2. Is the level of vibration or resonance reduced in only the seat or back? **Tip:** Check the BodySound balance (rocker switch) to determine if those settings have changed from your preferences.

**When you use the SoundNumber system the volume from the head speakers is too loud or too low.**

When using the SoundNumber system you can use the HEADBIAS setting with the remote control as one of the menu items to add or diminish sound from the head speakers. If you wish to lower the volume of the head speakers use a negative number. Alternatively, if you wish to increase the volume of the head speakers, then use a positive number. The higher or more negative number you choose, the more dramatic the effect will be.

**The BodySound chair does not turn on or off automatically when you get in and out of it, respectively.**

Check to see that the SWITCHES setting is enabled. The automatic on/off function will only work if the SWITCHES setting is enabled.

**The remote control does not communicate with the BodySound amplifier.**

1. **Tip:** Turn the power supply off and then on again.
2. Are the batteries in the remote control getting low on power? **Tip:** Try changing both AA batteries.
3. Are you using the remote control unit that is programmed for that chair?
4. Has the SYSTEM ID in either the remote control unit or amplifier been corrupted? **Tip:** Turn off any other BodySound chairs you may have and then press and hold both left and right arrow keys to initiate the procedure for creating a unique identifier between the chair and remote. Do not use an identifier that is in use in another BodySound chair.

**The BodySound chair leans to one side or the other when rocking back or forward.**

Review and perform chair maintenance as described in the Maintenance section under Chair Operation, as one or more of the bolts securing the torsion spring retaining plate to the swivel plate, the swivel plate to the pedestal, or the torsion spring to the bottom of the seat frame may have become loose.

**The recline mechanism does not work.**

1. Can you feel air coming out of the fan grate on the outer aspect of the left arm? If so, then skip to #2, otherwise check items 1.a. – 1.c. and take any required actions.
  - a. Is the power supply turned on? **Tip:** Even if it is on, turn it off and then on again.
  - b. Is the power supply plugged into an AC outlet that is active?
  - c. Is the DC cable from the power supply firmly plugged into the power connector in the chair?

2. Can you depress the switch in both directions? **Tip:** If not, the right arm requires servicing.
3. Are the electrical connections secured? **Tip:** Make sure that the recline power cables are connected and make sure that the recline control cable is connected directly to the recline motor.
4. Is the detent pin in place connecting the bottom of the recline mechanism and the bracket attached to the seat frame that surrounds the power recline housing?

# BODY SOUND™

## Consumer Warranties

### Support:

Consumers can contact BodySound™ Technology's (BST) Customer Service department between 9:00AM and 5:00PM, Monday thru Friday, Central Time, for any warranty or service issues – call **1 - (877) 943 - 4041**.

Non-warranty repair is available on a per incident basis. BST's Customer Service will determine whether the unit requires Service Center repair, provide instructions for disassembly, shipping, and handling of the damaged part, and provide authorization to return the part to BST. A per incident charge plus applicable repair, parts, shipping, and handling costs, and local tax will be charged for non-warranty repairs.

It is required that consumers have their serial number and dated proof of purchase (sales receipt) available when they call. Once a consumer reaches an Account Manager or Customer Service representative, an account will be opened in the consumer's name with an account number assigned. This account number will be provided to the consumer for future reference. While the Account Manager or Customer Service representative handles most consumer inquiries during the initial call, in some instances the account will be assigned to a technical specialist for additional support.

All conversations with consumers, as well as Customer Service, Service Center, and Account Management involvement related to the consumer's account are documented in our database for future reference. This documentation permits our management and employees to monitor the progress of individual calls and repairs and to measure the performance of our products and service levels to improve our products and services.

### **Repairs:**

The products that BST designs, manufactures, and sells are modular in nature for greater manufacturability, support, and servicing. This design feature allows BST to service our customers more efficiently and reliably avoiding the need for our customers to repair their product using company-supplied parts and also, to avoid paying higher shipping and handling costs.

Instructions for module disassembly can be supplied directly from BST's Customer Service. If you need additional support or have any questions during disassembly, please call BST's Customer Service for assistance. After repair, Customer Service will provide instructions and phone assistance if necessary for product re-assembly.

### **Product Returns and Shipping to BST:**

BST Customer Service will only issue Return Material Authorization numbers (RMA numbers) for products being returned to BST or BST's Service Center, for authorized repair and/or evaluation. BST will not issue RMA numbers for, but not limited to:

- Buyers remorse (unless purchased within 30 days from BST directly),
- Freight Damage for shipments to end-user, except for drop shipments direct from BST, or
- For products purchased from a reseller.

Any returns for the above circumstances require a written request to BST's Sales Manager for a return allowance through the appropriate sales channel.

Any allowed returns will be subject to credit deductions that are assessed in the returns and refurbishment process, which may include, but are not limited to: costs related to shipping, freight, and handling, restocking fees, inspection and evaluation, and refurbishment. Any allowed returns that include customer's own materials (COM) will be subject to an additional credit deduction for the associated costs of manufacture using COM.

For returns, the consumer is responsible for packing the product in the original box(es) or in approved packaging that is available for sale from BST. Shipping and freight coverage for repairs under warranty requires scheduling with BST and only includes "curb-side" pickup and delivery. Products received without a valid RMA number or one clearly marked on the box will be refused.

BST is not responsible for any applicable duties, taxes, and brokerage fees associated with returned parts or products.

Consumers in other countries should first check with their own Customs Authority and register the merchandise before sending it to BST for repair. Every country's Customs Authority has a different procedure and documentation for repairs, so it is important that this information is obtained prior to sending the product to BST's Service Center.

### **Consumer Warranties:**

BST's products are backed by limited warranties against defects in materials and workmanship. The warranty begins on the original purchase date if purchased from in-stock inventory through a reseller of the product. If product was shipped from BST directly to the consumer or to the reseller for that consumer the warranty begins five (5) days after the product was shipped from BST.

Products or parts thereof received by BST's Service Center receive a full inspection and diagnostic evaluation of all mechanical and electrical systems. Any systems found to be deficient are repaired or replaced automatically if covered under existing warranties, or the consumer is provided a quotation for service if not covered by an existing warranty.



BodySound™ Home Entertainment Systems	Factory Service	Frame	Modules	Pads	Covers
BodySound Premium and Deluxe chairs (new products— original box only)	90 days	2 years	1 year	6 months	90 days
BodySound Premium and Deluxe chairs (refurbished products)	60 days	1 year	1 year	3 months	90 days
BodySound Premium and Deluxe chairs (floor demos— including "out of box")	None	1 year	6 months	None	None

**Factory Service and Labor:** BST will supply packaging materials, if required, and cover return shipping to BST's Service Center, parts identified by this warranty, labor for repair work, and return shipping to the consumer when repairs are completed.

**Frame:** The metal frame includes the back and seat frames, and joints connecting the two, armrest steel support bars, and base cone. It does not include the extendable leg rest module, tilt spring or the swivel plate. BST will supply packing materials and repair parts covered by this warranty and return shipping to purchaser for repairs performed at BST's Service Center.

**Modules:** Modules include tilt spring, swivel plate, amplifier and non-detachable cabling connected to the amplifier, power recline module, extendable leg rest module, and wooden armrest structures. Modules do not include covering materials (Covers). When replacing a part that is covered by material, BST will use the customer's original cover.

**Pads:** Back, seat, and leg rest pads, including foam and any other stuffing, padding, or support materials and any electronics, speakers, cabling, and switches contained within the pads themselves. This does not include the covering materials. When replacing a part that is covered by material, BST will use the customer's original Cover(s).

For repairs related to **Frame**, **Modules**, and **Pads**: BST will repair the consumer's part or supply new or refurbished parts, at the option of BST, as replacement parts in exchange for defective parts that are covered by this warranty. BST will provide return shipping to the consumer for repairs performed at BST's Service Center. It is the consumer's responsibility to return the defective part(s) to BST in the original packaging or in approved packaging that is available for sale from BST. Any repair or replacement parts will be warranted for the remainder of the original manufacturer's warranty period or ninety (90) days from installation by BST's Service Center, whichever is longer.

Replacement parts or units provided to the consumer are the property of the consumer; the replaced parts or units become the property of BST.

**Covers:** Fabric materials that cover the back and seat pads, arms, joints, pillows, cushions, and are otherwise used in covering parts of the product. It is the consumer's responsibility to return the defective part(s) to BST. Any repair or replacement parts will be warranted for the remainder of the original manufacturer's warranty period or ninety (90) days from installation by BST's Service Center, whichever is longer.

### **Consumer Warranty Limitations and Exclusions (Read Carefully):**

All warranty start dates begin as specified above. No allowance or extension is offered for installation. Warranties do not apply to rental, business, commercial, institutional, or other non-residential users. Proof of purchase (original receipt) is required for all warranty repairs or service. Warranties are only valid within the United States provided the equipment has been operated according to the instructions in the Operating Manual. The warranty only applies to the product.

The following conditions do not constitute defects under this warranty: Fading, wear, and pilling of fabrics as those conditions naturally occur with fabrics; natural markings, grain, and dye variations in covering materials as no two pieces of covering materials are alike; softening of foams and filling materials in pillows and pads as those items naturally change with use; and squeaks, clicks, or other sounds when rocking the chair, which often arise during normal use.

Shipping and freight coverage under this warranty requires scheduling with BST and only includes "curb-side" pickup/delivery. It does not include any duties, taxes, brokerage, or other import/export fees. For returns, the consumer is responsible for packing the product in the original box or in approved packaging that is available for sale from BST. Products received without a valid RMA number or one clearly marked on the box will be refused.

WARRANTIES DO NOT COVER ANY LOSS OR DAMAGE RESULTING FROM: IMPROPER INSTALLATION, UNAUTHORIZED REPAIRS OR MODIFICATIONS, IMPROPER USE OF ELECTRICAL/POWER SUPPLY, LOSS OF POWER; DROPPED PRODUCT, A MALFUNCTION OR DAMAGE OF AN OPERATING PART FROM FAILURE TO PROVIDE MANUFACTURER'S RECOMMENDED MAINTENANCE; TRANSPORTATION DAMAGE; THEFT, ABUSE, MISUSE, NEGLECT, VANDALISM, OR ENVIRONMENTAL CONDITIONS (FIRE, FLOODS, RUST, CORROSION, SAND, DIRT, WINDSTORM, HAIL, EARTHQUAKE, OR EXPOSURE TO WEATHER CONDITIONS); LOSS OF USE DURING THE PERIOD THE PRODUCT IS AT A REPAIR FACILITY OR OTHERWISE AWAITING PARTS OR REPAIR. DAMAGE INCURRED DUE TO SHIPPING AND HANDLING DOES NOT CONSTITUTE A DEFECT UNDER THIS WARRANTY.

UNDER NO CIRCUMSTANCE SHALL BST OR ITS REPRESENTATIVES BE LIABLE FOR INDIRECT, CONSEQUENTIAL, OR INCIDENTAL DAMAGES (INCLUDING DAMAGES FOR LOST PROFITS, BUSINESS INTERRUPTION, BODILY INJURY, MEDICAL, AND THE LIKE), EVEN IF ANY PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

THE WARRANTIES PROVIDED BY BST HEREIN ARE NON-TRANSFERABLE AND SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR PARTICULAR USE. BST'S SOLE LIABILITY AND THE PURCHASER'S EXCLUSIVE REMEDY SHALL BE FOR THE REPAIR, OR AT BST'S OPTION, FOR THE REPLACEMENT OF THE DEFECTIVE PART. NOTWITHSTANDING THE ABOVE, IF REPLACEMENTS PARTS FOR DEFECTIVE MATERIALS ARE NOT AVAILABLE, BST RESERVES THE RIGHT TO MAKE SUBSTITUTIONS IN LIEU OF REPAIR OR REPLACEMENT.

BodySound Technologies, Inc.  
10230 West 70<sup>th</sup> Street, Suite 2  
Eden Prairie, MN 55344  
877-943-4041  
[www.bodysoundsystem.com](http://www.bodysoundsystem.com)