

CONTENTS

INTRODUCTION

page 2

UNPACKING

page 3

SETTING UP

page 3

FINE TUNING

page 8

SPECIFICATIONS

page 9

WARNINGS:

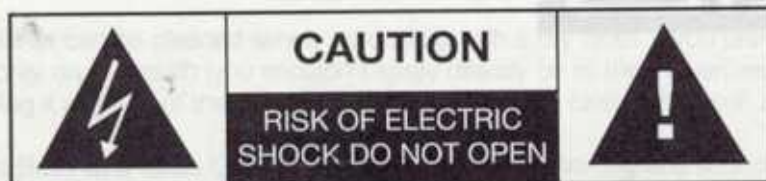
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. OBSERVE ALL WARNINGS ON THE EQUIPMENT ITSELF. TO AVOID ELECTRICAL SHOCK, DO NOT OPEN THE ENCLOSURE OR REMOVE THE AMPLIFIER FROM THE REAR PANEL. THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICE QUESTIONS TO AN AUTHORISED SOLID DEALER.

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARISED) POWER PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ENSURE THAT THE RATED POWER VOLTAGE OF THE AMPLIFIER MATCHES THAT OF THE POWER SUPPLY.

THIS EQUIPMENT IS DOUBLE INSULATED AND DOES NOT REQUIRE GROUNDING.

SAFETY INSTRUCTIONS



CAUTION:

To reduce the risk of electric shock, do not remove the back panel. No user-serviceable parts inside. Refer servicing to qualified personnel.

Explanation of Graphical Symbols



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

- 1 **Read Instructions - All the safety and operating instructions should be read before the appliance is operated.**
- 2 **Retain Instructions** - The safety and operating instructions should be retained for future reference.
- 3 **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
- 4 **Follow Instructions** - All operating and use instructions should be followed.
- 5 **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool and the like.
- 6 **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 7 **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 8 **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet, that may impede the flow of air through the ventilation openings.
- 9 **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances that produce heat.
- 10 **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- 11 **Grounding or Polarisation** - The appliance is double insulated and does not require grounding. Models for use with 100-115V power supplies are fitted with a polarised plug which should be used only with an approved polarised receptacle where the blades can be fully inserted to prevent blade exposure.
- 12 **Power Cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the appliance.
- 13 **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
- 14 **Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- 15 **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 16 **Damage Requiring Service** - The appliance should be serviced by qualified personnel when:
 - a. The power-supply cord or the plug has been damaged; or
 - b. Objects have fallen, or liquid has been spilled into the appliance; or
 - c. The appliance has been exposed to rain; or
 - d. The appliance does not appear to operate normally, or exhibits a marked change in performance; or
 - e. The appliance has been dropped, or the enclosure damaged.
- 17 **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

INTRODUCTION

Congratulations on selecting the Solid PowerBass subwoofer system. Acoustically engineered by B&W Loudspeakers, with cabinet design by industrial designer Morten Villiers Warren, the PowerBass provides amazing sonic performance in a compact package that will grace any living room.

Equipped with its own powerful high quality amplifier and easy to use controls, PowerBass makes your home cinema sound like real cinema. The PowerBass does so much more than simply extending the bass response of your system. By reducing the low-frequency demands on your satellite speakers, the PowerBass improves the vital midrange too.

The PowerBass integrates easily into any home cinema system, but for best results we recommend you match the PowerBass with Solid monitor speakers or, for ultimate acoustic performance, the Solid HCM (Home Cinema Monitor) series, featuring Acoustic Voice Matching - for natural dialogue quality and seamless integration between satellites and subwoofer.

The PowerBass is an extremely flexible addition to your home cinema system. You have a choice of connections - line-level or speaker-level - or of using more than one PowerBass in more sophisticated systems. And, because the PowerBass is magnetically shielded, it's safe to position it close to a screen.

Please read this booklet before connecting the Solid PowerBass

This manual explains how to set up your PowerBass.

The PowerBass has its own amplifier and mains power, so you should take more care than when setting up a conventional loudspeaker system.

This booklet takes you through the steps you need to take to use one or more PowerBasses with your system. To get the best out of your new equipment, you will need to spend a little time experimenting with settings and positioning.

Rock Solid Sounds Inc. supports a world-wide distributor network. If you find a problem that your dealer cannot resolve, our local distributor will be only too willing to help you.

UNPACKING

Unpack your Solid PowerBass carefully

The easiest way to unpack the PowerBass to avoid damage is as follows:

1. Open the flaps right back and invert the carton and contents
2. Lift the carton away from the PowerBass
3. Remove the upper layer from the packing to reveal the PowerBass's base
4. Open the polythene bag
5. Turn the cabinet the right way up
6. Remove the remaining packing and polythene bag

We recommend you retain the packaging for future use.

Positioning your Solid PowerBass

Since the PowerBass reproduces only very low notes, positioning the unit is less demanding than positioning conventional speakers, but to get the best from your PowerBass, we recommend you follow these easy tips:

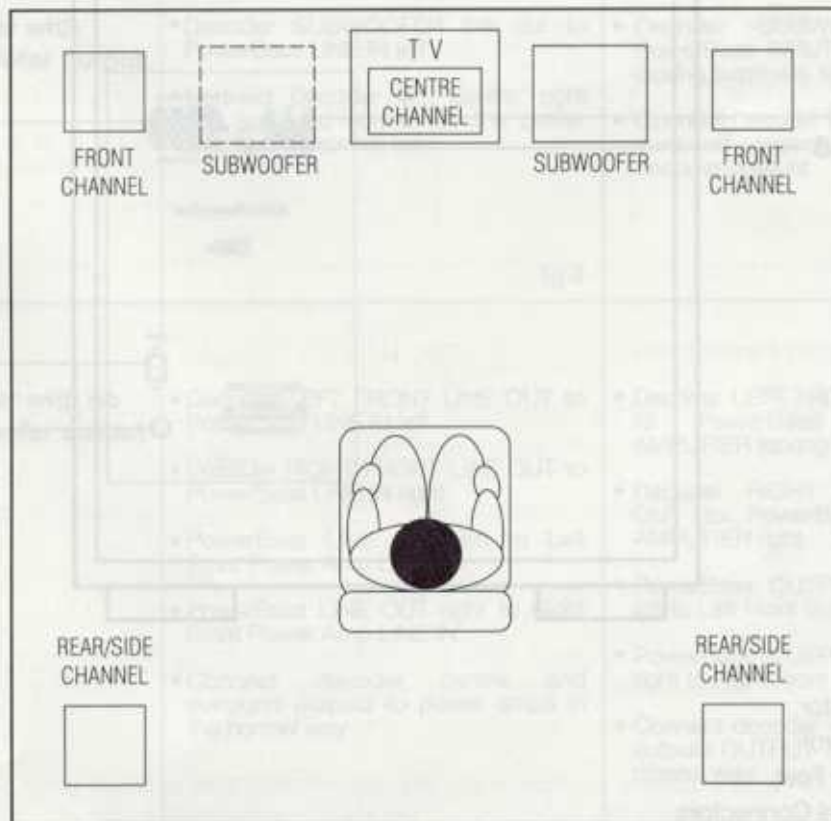
For best imaging, place the PowerBass between the left and right front speakers. If you use two PowerBasses, place one near each front left and right speaker

If you want to use your PowerBass in a confined space, such as in custom-designed furniture, ensure there is plenty of ventilation for PowerBass's on-board amplifier. If you are unsure whether you have adequate ventilation, ask your dealer for advice

Using the Solid PowerBass with Dolby Pro Logic®

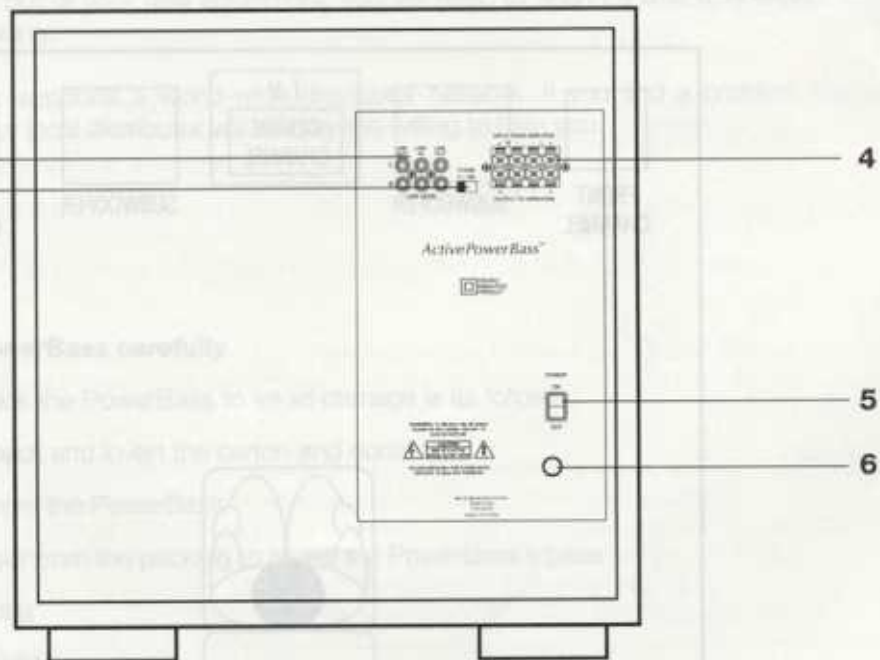
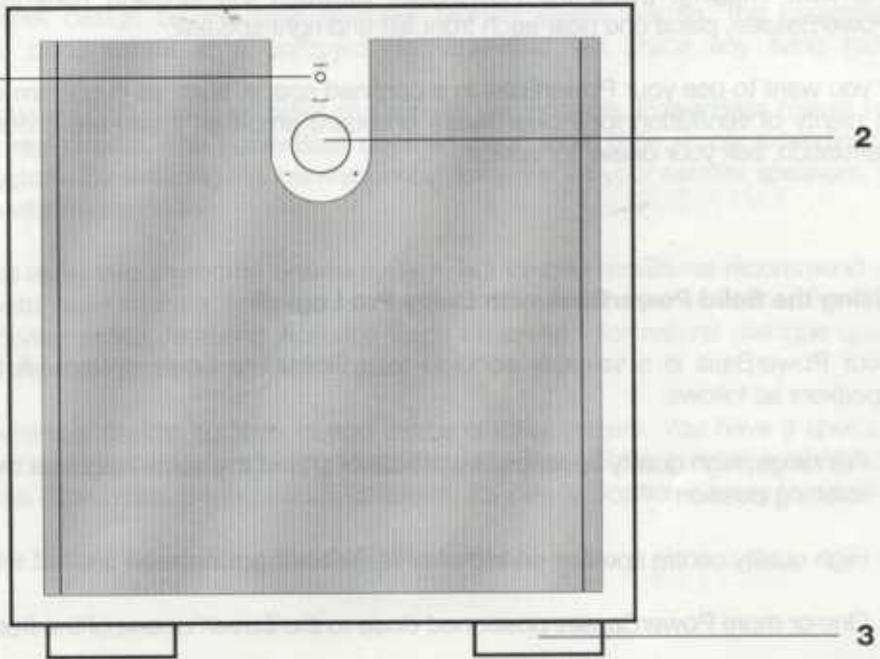
Your PowerBass is a valuable addition to a Dolby Pro Logic system. A typical system should have its speakers as follows:

- Full range, high quality speakers, each side of and at the same height as the screen, angled in towards the listening position
- High quality centre speaker on top of or underneath your screen
- One or more PowerBasses positioned close to the screen or one of the front speakers
- Surround speakers - these can be smaller than the front speakers - positioned behind or in line with the listeners. Best results are often obtained with the surround speakers mounted higher than the listeners and directed away from them to create a more diffuse sound field



SETTING UP

A tour of the Solid PowerBass



- ① Power Indicator
- ② Volume Control
- ③ Anti vibration Feet
- ④ Speaker Level Connectors
- ⑤ Power Switch
- ⑥ Mains Cable
- ⑦ Line Level Connectors
- ⑧ On Line Switch

Connecting the Solid PowerBass to your system

First of all, make sure your PowerBass and all other system equipment is disconnected from the electrical power supply. This ensures there's no risk of damage as cables are connected or disconnected.

If your system has separate pre- and power amplifiers, use line level connections (RCA Phono sockets). If not, use speaker level connections from the speaker outputs of your audio amplifier or decoder.

You must not use a mixture of line-level and speaker-level connections in your system.

Use this table to decide how you should connect a single PowerBass in your system.

YOUR SYSTEM	LINE LEVEL CONNECTIONS	SPEAKER LEVEL CONNECTIONS
Stereo Audio	<ul style="list-style-type: none"> • Pre-amp line out left to PowerBass LINE IN left • Pre-amp line out right to PowerBass LINE IN right • PowerBass LINE OUT left to power amp LINE IN left • Connect satellite speakers to power amp as normal <p style="text-align: right;">fig 1</p>	<ul style="list-style-type: none"> • Amplifier SPEAKER OUT left to PowerBass INPUT FROM AMPLIFIER (spring terminals) left • Amplifier SPEAKER OUT right to PowerBass INPUT FROM AMPLIFIER right • PowerBass OUTPUT TO SPEAKERS left to Left Satellite speaker • PowerBass OUTPUT TO SPEAKERS right to Right Satellite speaker <p style="text-align: right;">fig 2</p>
Surround Decoder with dedicated subwoofer output	<ul style="list-style-type: none"> • Decoder SUBWOOFER line-out to PowerBass LINE IN left • Connect Decoder left, centre, right and surround outputs to the power amps in the normal way <p style="text-align: right;">fig 3</p>	<ul style="list-style-type: none"> • Decoder SUBWOOFER OUT to PowerBass INPUT FROM AMPLIFIER (spring terminals) left • Connect Decoder left, centre, right and surround speakers to their respective decoder outputs <p style="text-align: right;">fig 4</p>
Surround Decoder with no dedicated subwoofer output	<ul style="list-style-type: none"> • Decoder LEFT FRONT LINE OUT to PowerBass LINE IN left • Decoder RIGHT FRONT LINE OUT to PowerBass LINE IN right • PowerBass LINE OUT left to Left Front Power Amp LINE IN • PowerBass LINE OUT right to Right Front Power Amp LINE IN • Connect decoder centre and surround outputs to power amps in the normal way <p style="text-align: right;">fig 5</p>	<ul style="list-style-type: none"> • Decoder LEFT FRONT SPEAKER OUT to PowerBass INPUT FROM AMPLIFIER (spring terminals) left • Decoder RIGHT FRONT SPEAKER OUT to PowerBass INPUT FROM AMPLIFIER right • PowerBass OUTPUT TO SPEAKERS left to Left Front Speaker • PowerBass OUTPUT TO SPEAKERS right to Right Front Speaker • Connect decoder centre and surround outputs OUTPUT TO SPEAKERS in the normal way <p style="text-align: right;">fig 6</p>

Using more than one Solid PowerBass

Multiple PowerBasses give you the following benefits:

- Better performance in large rooms
- Maintains channel separation to the lowest frequencies when a separate PowerBass is used for each channel in a stereo audio system
- Enables greater maximum sound output - especially for special effects

The following table shows how to add a second PowerBass.

YOUR SYSTEM	LINE LEVEL CONNECTIONS	SPEAKER LEVEL CONNECTIONS
<p>Stereo Audio with PowerBass #1 positioned near left satellite and PowerBass #2 positioned near right satellite</p>	<ul style="list-style-type: none"> • Pull RCA Phono plug from PowerBass #1 LINE IN right and plug into PowerBass #2 LINE IN right • Pull RCA Phono plug from PowerBass #1 LINE OUT right and plug into PowerBass #2 LINE OUT right 	<ul style="list-style-type: none"> • Disconnect leads from PowerBass #1 INPUT FROM AMPLIFIER right and connect to PowerBass #2 INPUT FROM AMPLIFIER right • Disconnect leads from PowerBass #1 OUTPUT TO SPEAKERS right and connect to PowerBass #2 OUTPUT TO SPEAKERS right
<p>Surround Decoder and Stereo Audio with PowerBass remote from satellite speakers</p>	<ul style="list-style-type: none"> • PowerBass #1 LINK OUT to PowerBass #2 LINE IN <p>Apply to all channels used in original connections to PowerBass #1</p>	<ul style="list-style-type: none"> • PowerBass #1 INPUT FROM AMPLIFIER (spring terminals) to PowerBass #2 INPUT FROM AMPLIFIER <p>Apply to all channels used in original connections to PowerBass #1</p>

Power up the Solid PowerBass

We recommend that you switch the PowerBass on before any power amplifiers receiving signals from the PowerBass. Similarly, when switching off, switch the PowerBass off last.

Before switching on your system and PowerBass you must double-check the connections.

1. **Connect the Solid PowerBass power cord to the power outlet**
2. **Ensure phasing is correct** - speaker level connections should be positive to positive, and negative to negative. If you have positive and negative mixed, you will get a fuzzy sound with imprecise image, or lack of bass - or even both.
3. **Check left and right channel connections are consistent throughout your system** - in a correctly installed home cinema system, the sound image will be properly coordinated with the image on the screen. For example, if an aircraft flies from left to right, its sound should do the same. If you have wrong connections, you may find the sound image moving from right to left when the video image is moving from left to right

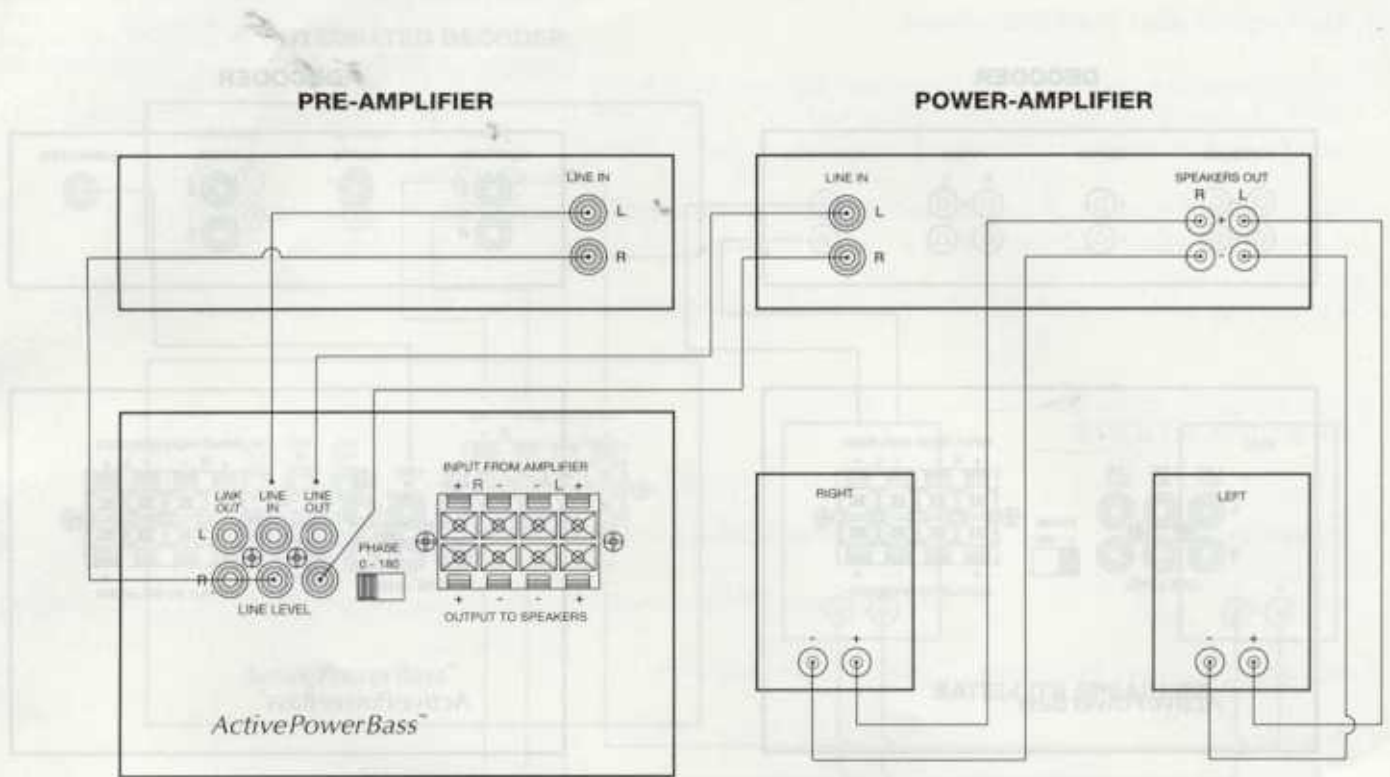


Fig 1

INTEGRATED AMPLIFIER

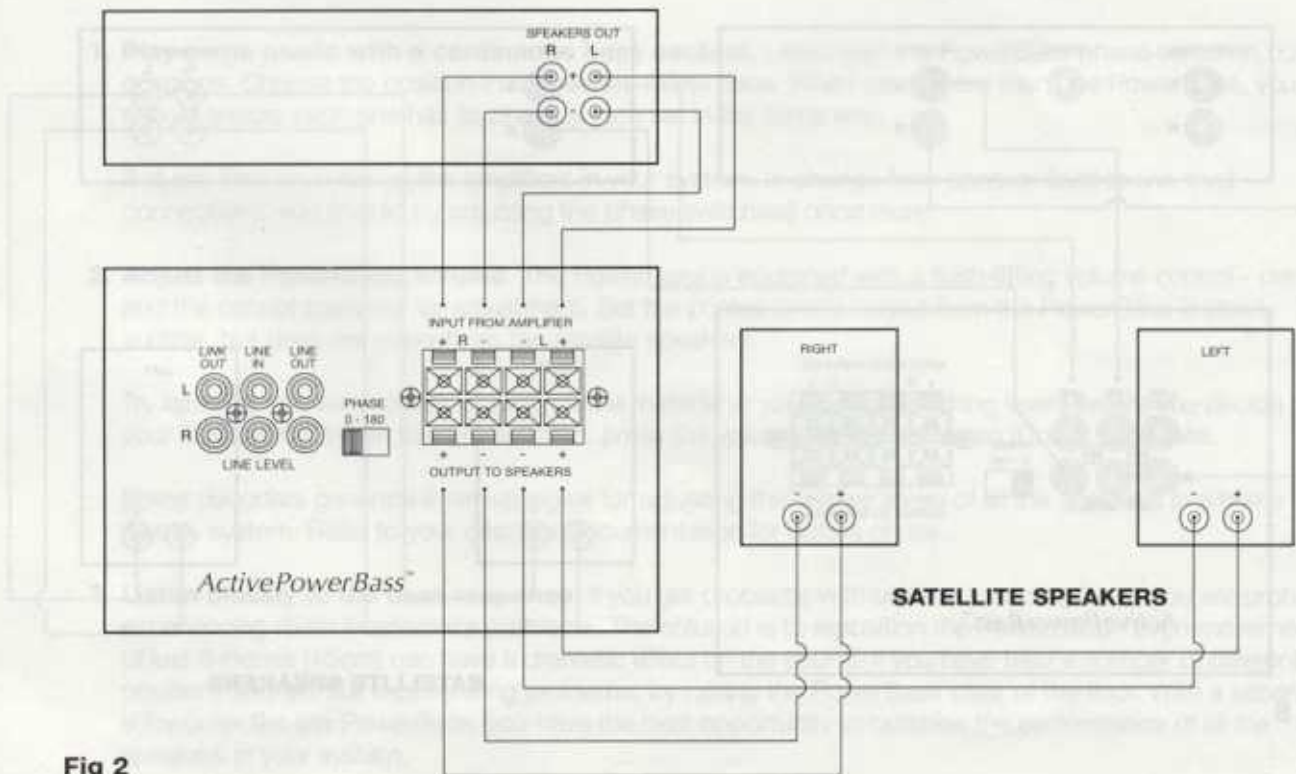


Fig 2

DECODER

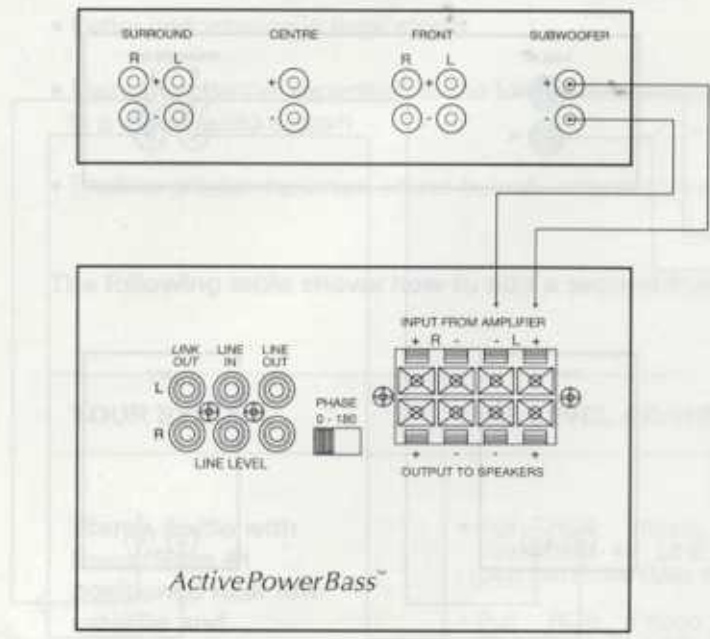


Fig 3

DECODER

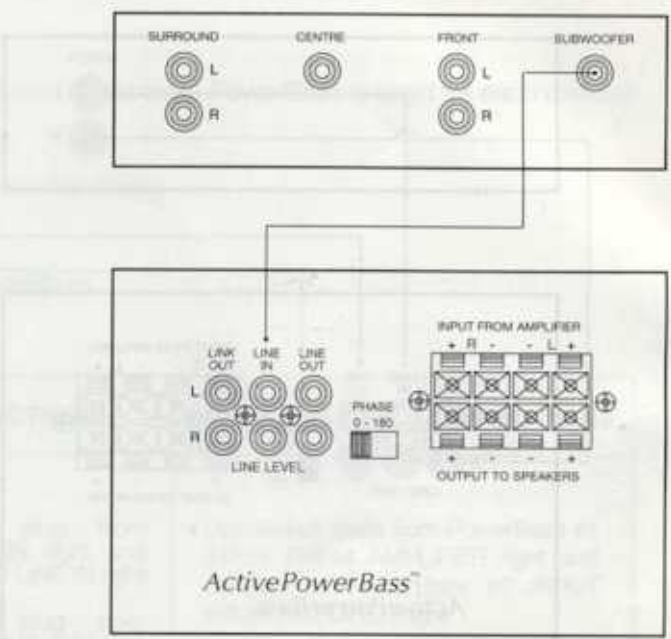


Fig 4

DECODER

POWER-AMPLIFIER

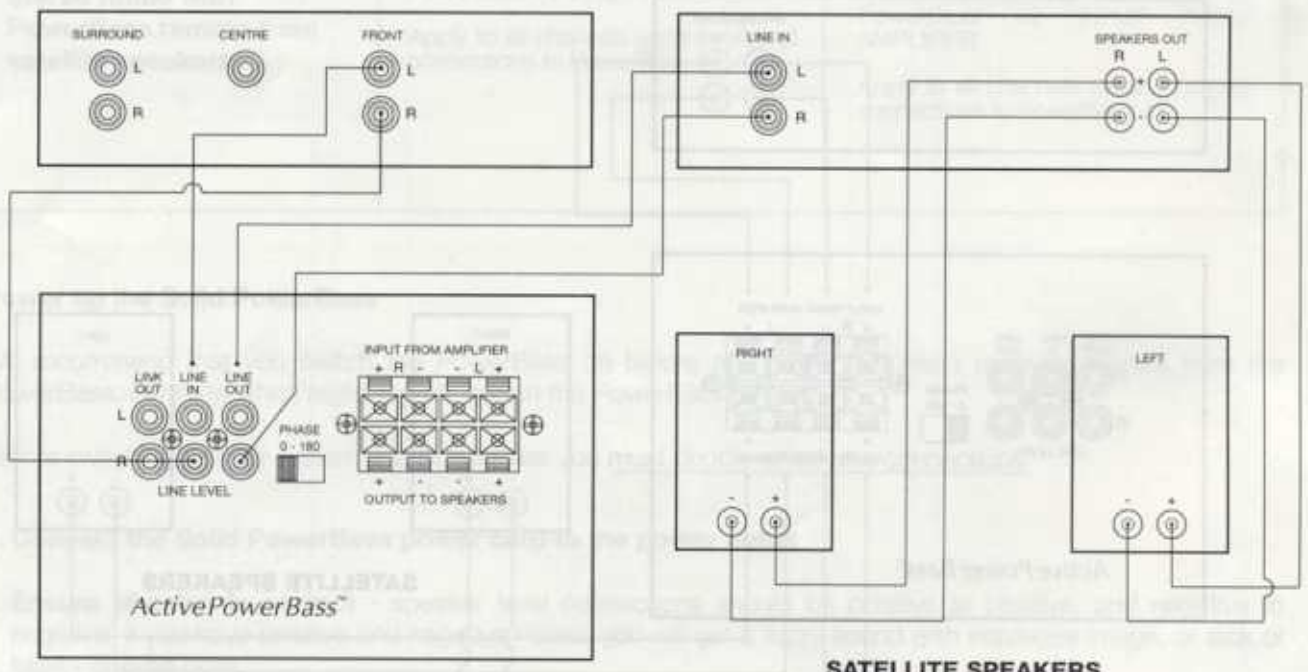


Fig 5

SATELLITE SPEAKERS

Check left and right channel connections are consistent throughout your system. In a correctly installed front channel system, the sound image will be moving correctly without change as the music is played. If an error has been made, the sound image will be moving in the wrong direction. For example, if an error has been made, the sound image will be moving from right to left when the music image is moving from left to right.

INTEGRATED DECODER

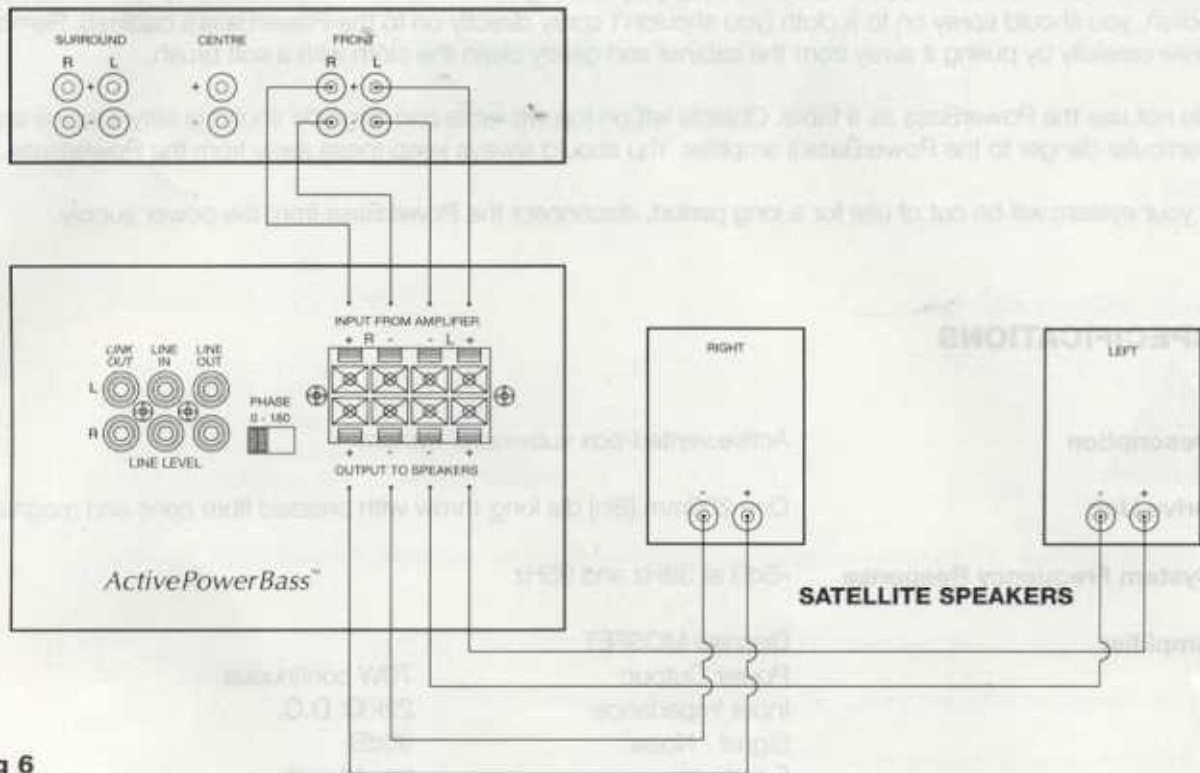


Fig 6

Fine-tune the system

1. **Play some music with a continuous bass content.** Listen with the PowerBass phase switch in both positions. Choose the position that gives the fullest bass. When using more than one PowerBass, you should ensure each one has its phase switch set in the same way.

If at any time you change the amplifiers in your system, or change from speaker-level to line-level connections, you should try adjusting the phase switch(es) once more.

2. **Adjust the PowerBass volume.** The PowerBass is equipped with a flush-fitting volume control - press and the control pops out for adjustment. Set the control so the output from the PowerBass is clearly audible, but does not overwhelm the satellite speakers.

Try listening to a wide variety of programme material at your normal listening levels before you decide on your final setting. When you are satisfied, press the volume control home, so it locks into place.

Some decoders generate a set-up signal for adjusting the relative levels of all the speakers in a home theatre system. Refer to your decoder documentation for details of use.

3. **Listen closely to the bass response.** If you get problems with uneven-sounding bass, you are probably experiencing room interference problems. The solution is to reposition the PowerBass - even movements of just 6 inches (15cm) can have a dramatic effect on the sound. If you have tried a number of different positions and are still experiencing problems, try raising the PowerBass clear of the floor. With a separate subwoofer like the PowerBass, you have the best opportunity to optimise the performance of all the speakers in your system.

If you have moved the PowerBass closer to or further from the listener, you may have to readjust the phase setting (step 1), and possibly the level as well (step 2).

Take care of your Solid PowerBass

The PowerBass's cabinet can be cleaned simply by dusting with a dry cloth. If you prefer to use an aerosol polish, you should spray on to a cloth (you shouldn't spray directly on to the PowerBass's cabinet). Remove the grille carefully by pulling it away from the cabinet and gently clean the cloth with a soft brush.

Do not use the PowerBass as a table. Objects left on top will rattle and degrade sound quality. Liquids are a particular danger to the PowerBass's amplifier. You should always keep these away from the PowerBass.

If your system will be out of use for a long period, disconnect the PowerBass from the power supply.

SPECIFICATIONS

Description	Active vented-box subwoofer system	
Drive Unit	One 200mm (8in) dia long-throw with pressed fibre cone and magnetic shielding	
System Frequency Response	-3dB at 38Hz and 95Hz	
Amplifier	Discrete MOSFET	
	Power Output:	70W continuous
	Input Impedance:	22k Ω D.C.
	Signal / Noise:	96dB
	Functions:	Input Level
	Inputs:	Phase 0° / 180° Line In (RCA Phono) Speaker Level In (Spring Terminals)
	Outputs:	Line Out (RCA Phono) Link Out (RCA Phono) Speaker Level Out (Spring Terminals)
Low-pass Filter	Active 2nd-order at 95Hz	
High-pass filter	Low level:	passive 1st-order at 95Hz
	Speaker level:	passive 1st-order at 95Hz into 8 Ω resistor (response using speaker level connections dependent on satellite system impedance)
Internal Volume	27 litres (0.95cu ft)	
Dimensions Height:	Height: 365mm (14.4in), 390mm (15.4in) inc. feet Width: 330mm (13.0in) Depth: 344mm (13.5in)	
Net Weight	10kg (22lb)	
Finish	Cabinet: Black Grille: Black	

Rock Solid Sounds Inc. reserves the right to amend specifications without notice in line with technical developments.

Dolby and Pro Logic are registered trade marks of Dolby Licensing Corporation Lucasfilm and THX are registered trade marks of Lucasfilm Ltd. PowerBass is a trademark of Rock Solid Sounds Inc. Ltd.