

NOTICE!!

This is a basic User's Manual which can be used for any model of the Protechnik Home Theatre Amplifiers depending on the specification which may differ from model to model. Protechnik reserves the right to cancel, change, modify or upgrade any of its product or specification without any prior notice. For any further clarification please check with your distributor for the specification, accessories and the service you are eligible to receive on the purchase of this product.

Important Safety Instructions.

Thank you for choosing our product. To ensure the finest performance, please read this manual carefully. Keep it in safe place for further reference.

CAUTION RISK OF SHOCK

CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing only to qualified service personals.

Explanation of Graphical Symbols:-



The lightning flash and arrowhead symbol, within an equilateral triangle is intended to alert you about the presence of danger.



The exclamation point within an equilateral triangle is intended to alert you about the presence important operating and servicing instructions.

WARNING

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

Voltage:

Voltages are 240V AC – Australia & New Zealand

Voltages are 110V AC – U.S.A & Canada

Operations of this device are 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.

Wet Location Marking-C-UL

“Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, Placed on the apparatus”.

- 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 Warning:** - All warnings on the appliances and in the operating instructions should be adhered to.
- 4. Follow Instructions:** - All operating and use instructions should be followed.

Important Safety Instructions.

5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not place any heat resources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and third grounding prong. The wider blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a chart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for a long periods of time.
14. Refer to qualified service personnel for all kinds of servicing. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug damage, liquid has been spilled over or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, or the apparatus does not operate normally or has been dropped.
15. **Cleaning:** - Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
16. **Power Lines:** - An outdoor antenna should be located away from power lines.
17. **Object and Liquid Entry:** - Care should be taken so that objects do not fall and liquid is not spilled into enclosure through openings.

Note:-

To CATV system installer's (U.S.A):-

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and in particular specifies that the cable ground shall be connected as close to the point of the cable entry as practical.

Important Safety Instructions.

Setup and Maintenance of the Receiver:-

1. Provide space for sufficient ventilation.
2. Do not connect to the AC power cords until all apparatus are connected.
3. Do not use your receiver immediately after transferring it from cold place to a warm place due to the risk of condensation.
4. Do not expose your receiver to water or excessively high temperatures.
5. After having disconnected your receiver, clean the case with soft cloth or with a slightly damp leather chamois. Never use strong solvents.

Protect your Receiver from Overheating:-

1. Do not block ventilation holes. Arrange the receiver so that air can circulate freely.
2. Do not stack the receiver and other components directly on top of each other.
3. Allow adequate ventilation when placing your receiver in a stand.
4. Place an amplifier near the top shelf of the stand so that heated air rising from it does not affect other components. If you have a satellite receiver you should place it on the top shelf.

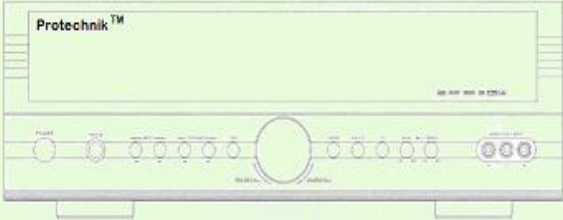




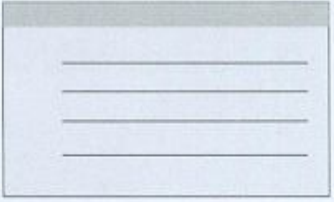
Table of Content

<u>Table of Content</u>	4	Alternative Surround Placement...	11
<u>Getting Started</u>	5	<u>Troubleshooting</u>	12
Fittings.....	6	General.....	12
Installing batteries in the remote controller.....	6	Tuner.....	15
Notes about the Remote Control....	6	Remote Control.....	16
Remote Control operation range....	6	<u>Specification</u>	17
Connection to Audio-Visual Components.....	7		
Connecting for Power.....	8		
Connecting the Speakers.....	8		
Connecting the Main, Centre, Rear Speakers.....	8		
Speaker Polarity.....	8		
Connecting the Subwoofer.....	9		
Positioning Your Speakers.....	9		
Magnetic Shielding.....	10		
Front Speaker Placement.....	9		
Preferred Surround Placement.....	10		

Getting Started

Fittings:-

You should be receiving the below items depending on the product (Model & Specifications) purchased. Please check with your distributor for the items and the parts you should be receiving with your purchase.

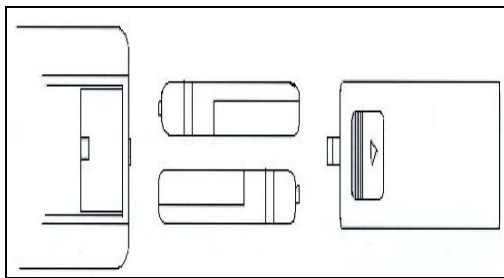
<p>One Receiver Unit</p>  <p>A silver Protechnik receiver unit with a digital display and various control buttons and knobs.</p>	<p>One Remote Control</p>  <p>A silver Protechnik remote control with numerous buttons, including a numeric keypad and a directional pad.</p>
<p>Indoor FM Antenna (Not Inclusive with all Model's)</p>  <p>A coiled silver indoor FM antenna with a connector at one end.</p>	<p>One Instruction Book</p>  <p>The cover of the Protechnik instruction book, featuring the brand name and an image of the receiver unit.</p>
<p>AAA,R3P,UM-4 Batteries(Not Inclusive with all Model's)</p>  <p>Two AAA, R3P, UM-4 batteries shown from different perspectives.</p>	<p>Warranty Card</p>  <p>A blank warranty card with several horizontal lines for text.</p>

Getting Started

Installing Batteries in the Remote Controller:-

Since the remote control will be used for many of this units control operations, you should start by installing the batteries.

1. Turn the remote control over and slide the battery compartment cover in the direction of the arrow.
2. Insert the batteries (AAA, R03P, UM-4 TYPE) according to the polarity markings on the inside of the battery compartment.
3. Close the battery compartment cover.



Notes about the Remote Control:-

Batteries Replacement:-

If you find that the remote control must be used closer to the main unit, the batteries are weak. Replace both batteries with new ones.

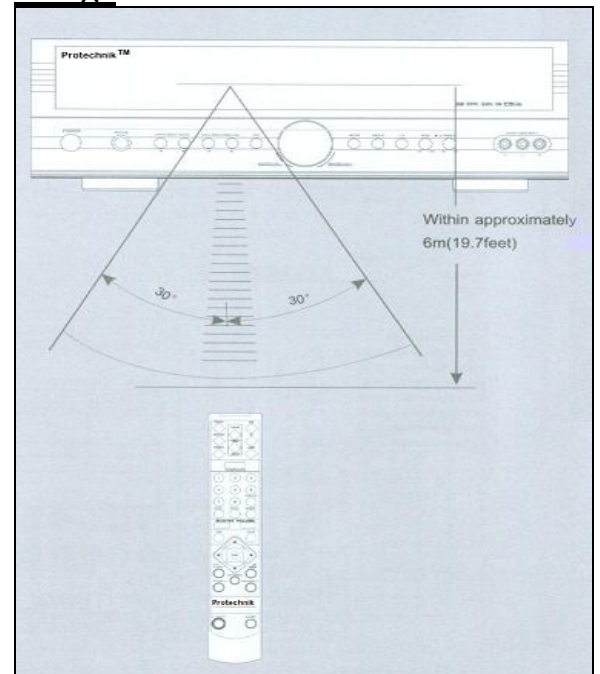
Notes

1. Use AAA, R3P, UM-4 batteries.
2. Be sure the polarities are correct. (See the illustrations inside the battery compartment).

3. Remove the batteries if the remote control is not used for an extended period of time.
4. If batteries leak, dispose of them immediately. Avoid touching the leaked material and contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.

Remote Control Operation

Range:-

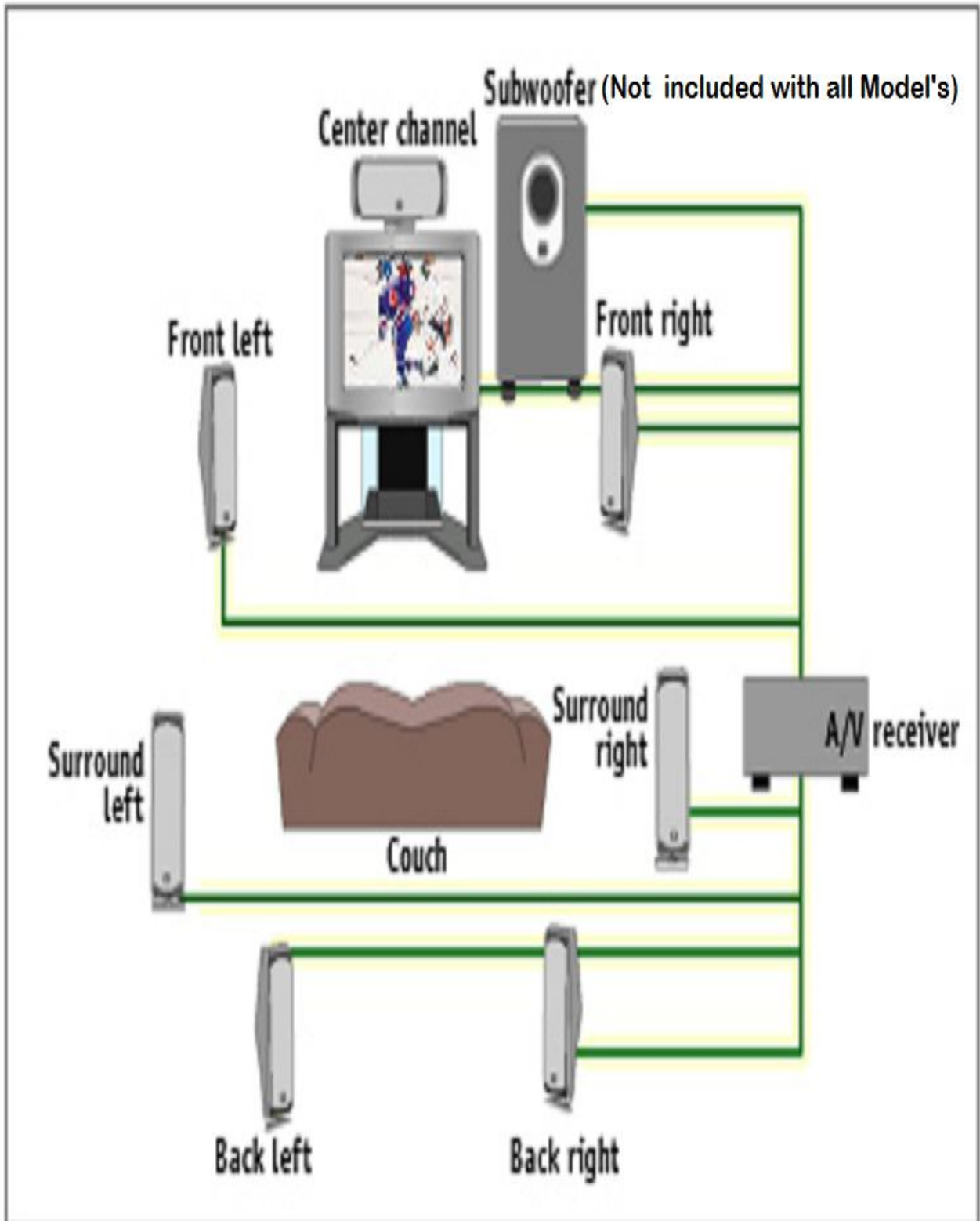


Notes

1. The area between the remote control and the main unit must be clear of large obstacles.
2. Do not expose the remote control sensor to strong lighting, in particular an inverter type fluorescent lamp. Otherwise the remote control may not work properly. If necessary, position the main unit away from direct lighting.

Getting Started

Connecting to Audio-Visual Components:-



Getting Started

Connecting for Power:-

Make sure you connect all your other electronic components and the speakers before plugging your receiver into the outlet. Plug the power cord in the wall outlet, matching the wide blade of the plug with the wide slot in the outlet. Be sure to insert the plug completely.



Connecting the Speakers:-

You will need 7 speakers with the unit [Front Left, Front Right, Front Centre, Rear Surround Left 1, Rear Surround Right 1, Rear Surround Left 2, Rear Surround Right 2 and a Subwoofer depending on the model purchased). In order to enjoy good surround effects all seven speakers need to be connected to the receiver.

At least two front speakers (Front left and right) are required. For better sound quality Centre speaker, Rear Surround speakers and Subwoofer

should also be connected. Adding Centre and Rear Surround speakers will enhance surround effects. Adding a Subwoofer will increase bass response.

If you want to enjoy full range of sound effects with small speakers, it is a must to use the subwoofer with the speakers to maintain adequate bass signals.

Connecting the Main, Centre, Rear Speakers:-

1. Loosen the knob.
2. Insert the bare wire [Remove approx 5mm (1/4") insulation from the speaker wires.]
3. Tighten the knob and secure the wire.

Speaker Polarity:-

When connecting the speakers, make sure the polarity (“+” speaker wire to “+” on the receiver) of speaker wires and terminals are matched. If the cords are reversed, the sound will be distorted and will lack bass (“out of phase” effect).

Notes

1. Do not let the bare speaker wire touch each other or any metal part of this unit. This could damage this unit or the speaker or both.
2. Connect the speaker terminals to your speakers with the wire of the proper gauge (keep as short as possible). If the connections are faulty no sound will be heard from the speakers.

Getting Started

Connecting the Subwoofer:-

To connect your own powered subwoofer, a mono aural audio cord (not supplied) is needed (RCA Terminal).

Positioning Your Speakers:-

1. Left & Right (Front Speakers)

They carry primarily music and sound effects.

2. Centre

In surround mode the centre speaker carries much of the dialogue as well as music and effects. It should be set between the left and right speakers.

3. Surround left & Right (Rear Speakers 1 pair)

Their overall sound balance should be as close as possible to the front speakers. Proper placement is vital to establish an evenly distributed sound field.

4. Surround left & Right (Rear Speakers 2 pair)

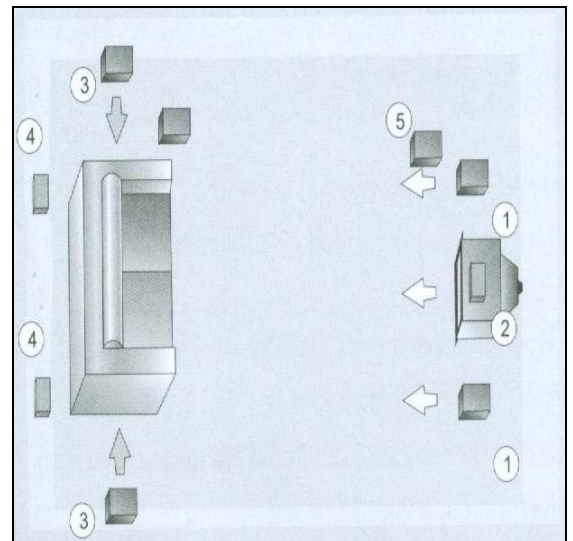
The surround rear 2 speakers supplement the surround rear 1 speakers and provides for more realistic front-to-back transitions. Place the speaker directly behind the listening position and at the same height as the surround speakers.

5. Subwoofer (Not inclusive with all models)

A subwoofer is designed to reproduce powerful low bass effects (explosions, the rumble of spaceships, etc). This dramatically heightens the involvement with the action on the screen. It is therefore recommended to connect subwoofer when small speakers are in use.

Magnetic Shielding:-

Speakers placed less than two feet from the TV set must be magnetically shielded in order to prevent picture distortion. It is not recommended to place the rear speakers near the TV set.



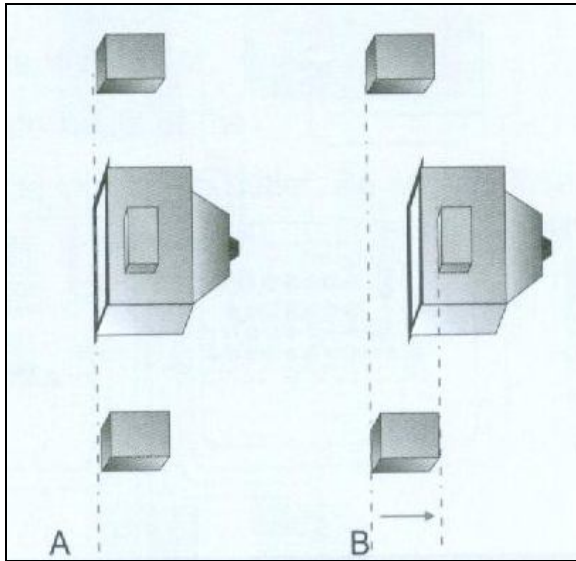
Front Speaker Placement:-

Even if you can't duplicate ideal home theatre setup exactly, the suggestions for speaker placement which will help you get good results if followed properly are the following :-

Getting Started

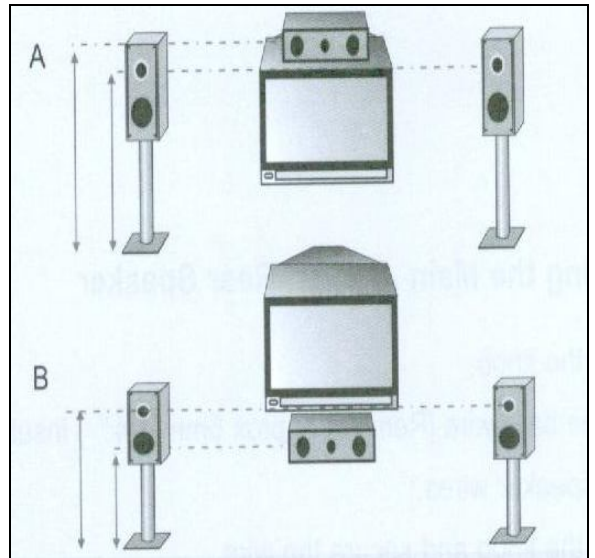
Alignment:-

Align the centre speaker evenly with (A), or slightly behind (B), the left and right speakers, but not ahead of them.



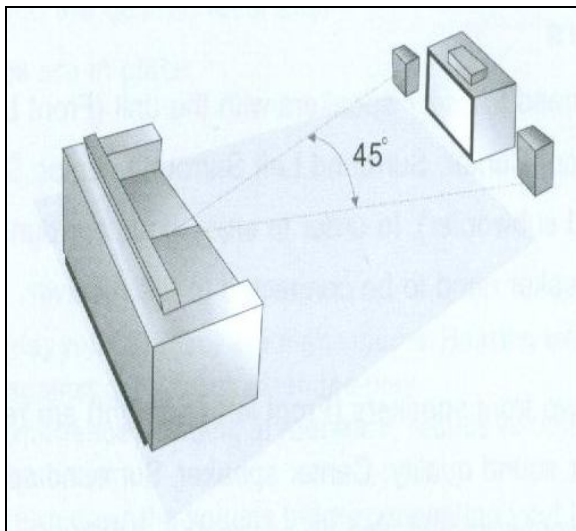
Height:-

The mid-and high-frequency drivers of the three front speakers should be as much as possible to the height. This often requires placing the centre speaker directly on top (A) or beneath (B) the TV set.



Angel:-

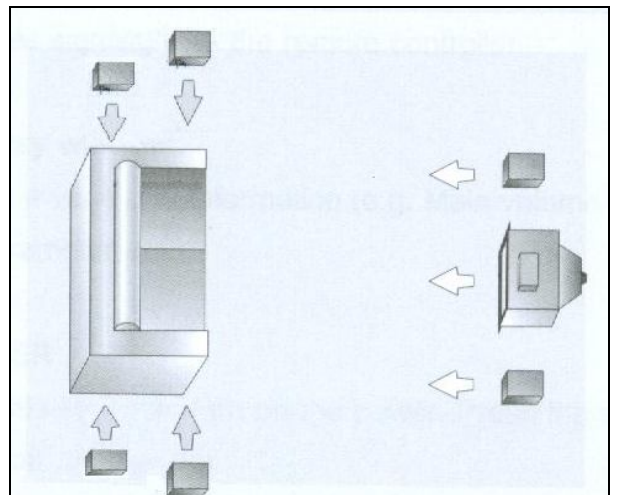
Placing the left and the right speakers to form a 45-degree angle with your favourite viewing position will duplicate the soundtrack mixer's perspective.



Preferred Surround Placement:-

Location:-

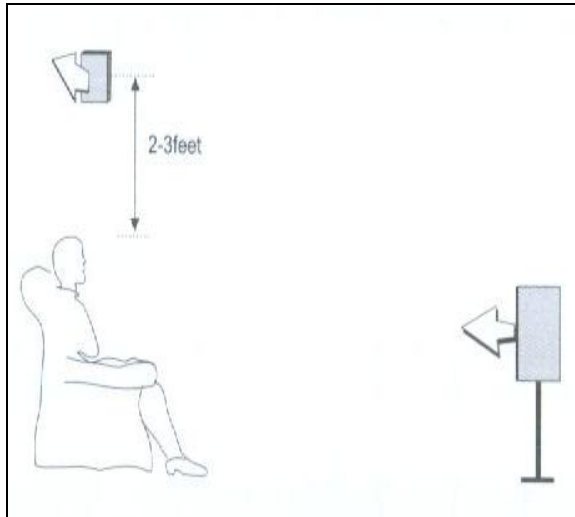
If possible, place surround speaker to either sides of the listening area and not behind it.



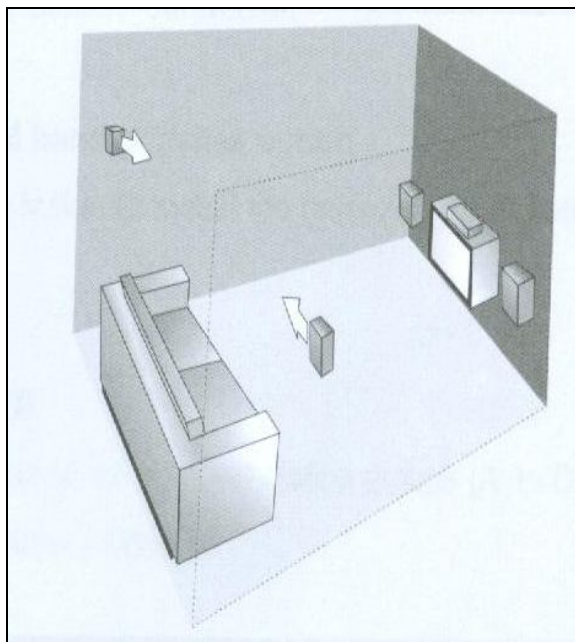
Getting Started

Height:-

If Space permits, install surrounds 2-3 feet high above the viewers. This helps to minimize localization effects.



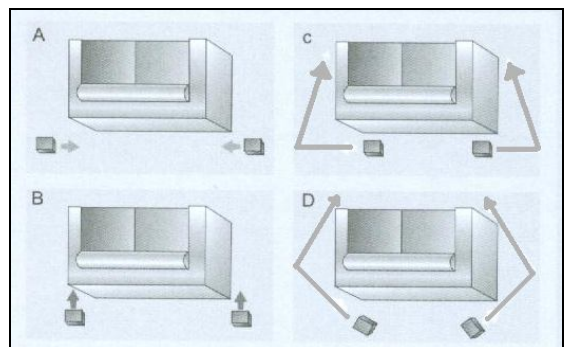
Aiming surround straight across the room and not down at audience, help creating a more open and spacious surround sound field.



Alternative Surround Placement:-

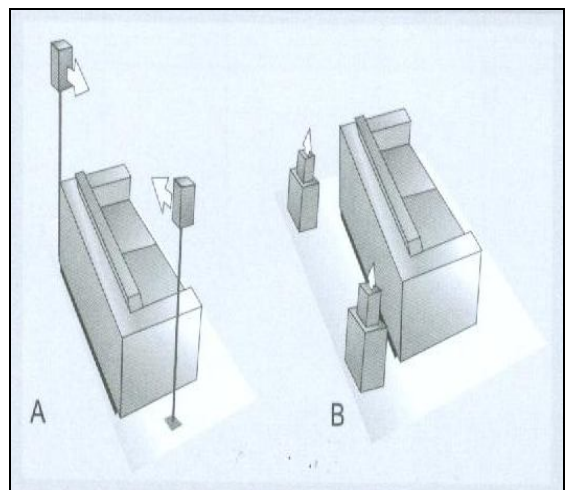
Rear wall:-

If rear wall mounting is the only choice, aim the speaker at each other (A), towards the front (B) or even towards the side walls (C, D). Experiment with placement until surround sounds seem to envelop you, rather than coming from behind you.



On Adjacent Walls:-

Surrounds can go on stands facing each other to approximate the preferred sidewall mounting (A), or to the sides or rear of the viewing area aimed upwards. In the later case, they can go right on the floor, or preferably, a few feet off the floor such as on end tables (B).



Troubleshooting

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, set this unit to the standby mode, disconnect the power cord, and contact our nearest authorized dealer or our service centre.

General

Problem	Cause	Remedy
The unit fails to turn on when STANDBY/ON (or SYSTEM POWER) is pressed, or enters in the standby mode soon after power has been turned on.	The power cord is not connected or the plug is not completely inserted.	Connect the power cord firmly.
	The protection circuitry has been activated.	Make sure all speaker wire connections on this unit and on all speakers are secure and that the wire for each connection does not touch anything other than its respective connection.
	This unit has been exposed to a strong external electric shock (such as lightning and strong static electricity)	Set this unit in the standby mode, disconnect the power code, plug it back after 30 seconds, and then use it normally.
No Sound.	Incorrect input or output cable connections.	Connect the cable properly. If the problem persists, the cable may be defective.
	No appropriate input source has been selected.	Select an appropriate input source with INPUT, 6CH INPUT or the input selector buttons.
	Speaker connections are not secure.	Secure the connections.
	The Volume is turned down.	Turn up the volume
	The sound is muted.	Press MUTE or any operation buttons of this unit to cancel a mute and adjust the volume.
	The signals this unit cannot reproduce are being received from a source component e.g.: a CD-ROM.	Play a source whose signals this unit can reproduce.

Troubleshooting

Problem	Cause	Remedy
The sound suddenly goes off.	The protection circuitry has been activated because of a short circuit, etc.	Check that the speaker wires are not touching each other and then turn this unit back on.
	The sleep timer has turned the unit off.	Turn on the power, and play the source again.
	The Sound is muted.	Press MUTE to cancel a mute.
Only the speaker on one side can be heard.	Incorrect cable connection.	Connect the cables properly. If the problem persists, the cables may be defective
Only the centre speaker outputs substantial sound.	When playing a monaural source with a pro-logic II listen mode the source signal is directed to the centre channel and the front and surround speaker output effect sounds.	/
No sound from the effect speakers.	You are using a source or program combination that does not output sound from all channels.	Try another sound field program.
No sound from the centre speaker.	The output level of the centre speaker is set to minimum.	Raise the level of the centre speaker.
	“CENTER” in “Speaker Setting” is set to NONE.	Select the appropriate setting for the surround left and right speakers.
No sound from the surround speakers.	The output level of the surround speakers is set minimum.	Raise the output level of the surrounds speakers.
	“SURROUND LR” in “Speaker Setting” is set to NONE.	Select the appropriate setting for the surround left and right speakers
No sound from the surround Centre speaker.	“Surround centre” in “Speaker Setting” is set to NONE.	Select the appropriate setting for the surround left and right speakers
	The source or the listen selected mode does not contain surround centre signals.	Select “6 stereo” or another appropriate listen mode.
No sound from the subwoofer.	“SW” in “Speaker Setting” is set to “NONE” when a Dolby Digital or DTS or other source signal is being played.	Select “SW” is “YES”.
	The source does not contain in low bass signals	/

Troubleshooting

Problem	Cause	Remedy
A “humming” sound can be heard.	Incorrect cable connection.	Firmly connect the audio plugs. If the problem persists, the cable may be defective.
The volume level cannot be increased, or the sounds distorted.	The component connected to the PRE OUT (REC) jacks of this unit is turned off.	Connect the component to other analog input jacks of this unit.
The sound effect cannot be recorded.	It is not possible to record the sound effect with a recording component.	/
A source cannot be recorded by a recording component.	The source component is not connected to this unit’s analog the PRE OUT jacks.	Connect the recording component to the analog the PRE OUT jacks.
This unit does not operate properly.	The internal microcomputer has been frozen by an external electric shock (such as lightening or excessive static electricity or by a power supply with low voltage.	Disconnect the AC power cords from the outlet and the plug it again after about. 30 seconds.
There is noise interface from digital or high frequency equipment or this unit.	The unit is too close to the digital or high-frequency equipment.	Move the unit further away from such equipment.
The picture is disturbed.	The video source uses scrambled or encoded signals to prevent dubbing.	/
No picture to monitor.	Video signal is not input in correct source	Change to a correct source.
	Video cable is bad.	Change a connecting cable.
The unit is suddenly turned off automatically. No sound. No display.	The internal temperature becomes too high and the overheat protection circuitry has been activated.	Wait about 1 hour for this unit to cool down and then turn it back on.

Troubleshooting

Tuner (Not Inclusive With All Models)

	Problem	Cause	Remedy
FM	FM stereo reception is noisy.	The characteristics of FM stereo broadcasts may cause this problem when the transmitter is too far away or the antenna input is poor.	Check the antenna connections. Try using a high-quality directional FM antenna.
			Use the manual tuning method.
	There is distortion, and clear reception cannot be obtained even with a good FM antenna.	There is multipath interference.	Adjust the antenna position to eliminate multipath interference.
FM	The desired station cannot be tuned in with the automatic tuning method.	The signal is too weak.	Use a high-quality directional FM antenna.
			Use the manual tuning method.
AM	Previously preset stations can no longer be tuned in.	This unit has been disconnected for a long period.	Preset the stations again.
	The desired station cannot be tuned in with the automatic tuning method.	This signal is weak or the antenna connections are loose.	Tighten the AM loop antenna connections and orient it for best reception.
			Use the manual tuning method.
	There are continuous crackling and hissing noises.	Noises result from lighting. Fluorescent lamps, motors, thermostats and other electrical equipment.	Use an outdoor antenna and a ground wire. This will help some what, but it is difficult to eliminate all noise.
There are buzzing and whining noises.	A TV set is being used nearby.	Move this unit away from the TV.	

Troubleshooting

Remote Control

Problem	Cause	Remedy
The remote control does not work nor function properly.	Wrong distance angle.	The remote control will function within a maximum range of 6m (20 feet) and a more than 30degrees off axis from the front panel.
	Direct sunlight or lighting (from an inverter type of florescent lamp, etc.) is striking the remote control sensor of this unit.	Reposition this unit.
	The batteries are weak.	Replace the batteries.
	No batteries installed.	Install the batteries before attempting to operate the remote. Be sure to match the + and – ends of each battery to the symbols shown in the remote battery compartment.

Specifications

Note:-

The below given specifications may differ from model to model depending on the product purchased. Please check with your distributor for the specifications, accessories and the service you are eligible to receive on the purchase of this product.

- 1) Up to 3000 Watt A/V Receiver.
- 2) Up to 500 Watt/Channel/8 OHMS.
- 3) DPS 7.1 Pro-sound III Decoder.
- 4) Mp3 Digital Pro-Input.
- 5) AC-3 Active Scan A/V Inputs.
- 6) 20Hz ~ 20 KHz Frequency Response.
- 7) 0.09% Total Harmonic Distortion.
- 8) Cooling System Fan.
- 9) Full Function Remote Control.
- 10) Illuminated Display.
- 11) W x H x D : 500mm x 220mm x 440mm