owner's manual

300W Home Theater System

with Intergrated DVD / VCR

RCA

TABLE OF CONTENTS

SAFETY/REGULATORY INFORMATION

WARNING: TO AVOID HAZARDOUS EXPOSURE TO INVISIBLE LASER RADIATION, DO NOT OPEN OR REMOVE/DEFEAT LASER TRANSPORT PROTECTIVE HOUSING.

CLASS 1 LASER PRODUCT This appliance is classified as a CLASS 1 LASER PRODUCT. The

CLASS 1 LASER PRODUCT MARKING is located on the rear panel.

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

User/Installer Caution: Your authority to operate this FCC certified equipment could be voided if you make changes or modifications not expressly approved by the manufacturer, who is responsible for compliance with Part 15 FCC rules. 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.

FCC DECLARATION OF CONFORMITY

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.

Product:	300W Home Theater System
Model:	31-5030
Responsible Party:	RadioShack 100 Throckmorton Fort Worth, TX 76102
Phone:	817-415-3200

THE FCC WANTS YOU TO KNOW

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 your local RadioShack store or an experienced radio/TV technician for help.
- If you cannot eliminate the interference, the FCC requires that you stop using your Home Theater System

Changes or modifications not expressly approved by RadioShack may cause interference and void the user's authority to operate the equipment.

CAUTION: To prevent fire, shock hazard, or annoying interference, use only the recommended accessories. To prevent electric shock, match wide blade plug to wide slot, fully insert. Do not use this (polarized) plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted to prevent blade exposure. To reduce the risk of electric shock, do not remove the unit cover or back. There are no serviceable parts inside. Refer servicing to qualified personnel only.

	CAUTION		WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.
	RISK OF ELECTRIC SHOCK DO NOT OPEN	!	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.			
	The lightning symbol is intended to alert you to the presence of uninsulated dangerous voltage within this product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.		
	The exclamation symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.		

IMPORTANT SAFETY INSTRUCTIONS

1. All the safety and operating instructions should be read before the product is operated.

2. The safety and operating instructions should be retained for future reference.

3. Heed all warnings on the product and in the operating instructions.

4. All operating instructions should be followed.

5. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7. Do not use this product near water – for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

8. Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

9. Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

11. This product may be equipped with a polarized alternating–current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. Power–supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

13. This product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

14. If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna–discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

15. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power lines surges.

16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

17. Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

18. Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Unplug this product from the wall outlet and refer servicing to qualified service personnel under any of the following conditions:

    • When the power-supply cord or plug is damaged,
    • If liquid has been spilled, or objects have fallen into the product,
    • If the product has been exposed to rain or water,
    • If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
    • If the product has been dropped or damaged in any way, and
    • When the product exhibits a distinct change in performance – this indicates a need for service.

21. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original

part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24. The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

KEEP THESE INSTRUCTIONS

WELCOME

Thank you for purchasing the RCA 300W Home Theater System with Intergrated DVD/VCR. This all-in-one digital home theater system comes complete with a progressive scan DVD player, VCR, AM/FM receiver and built-in amplifier! Now you can enjoy all your favorite home entertainment media in one package

UNPACK YOUR HOME THEATER SYSTEM

- DVD/VCR Receiver (1)
- Satellite Speakers (5)
- Passive Subwoofer (1)
- Composite Video cable (1)
- Audio/Video cable (1)
- 16' Speaker cables for L/R front (2)
- 10' Speaker cable for Center (1)
- 25' Speaker cables for L/R surround (2)
- RF Antenna Cable (1)
- Remote control (1)
- 1.5V AAA alkaline batteries (2)
- AM loop antenna (1)
- FM wire antenna (1)
- User's guide (1)

INSERT BATTERIES

1. Remove battery cover.

2. Insert two 1.5V AAA batteries, paying attention to the correct polarities (+/-).

3. Replace cover.

Compatible Media

This system can play the following media:

- DVD Video and DVD-R
- Dolby Digital 5.1
- DTS Digital Surround
- CD-Digital Audio (5" and 3")
- MP3 on CD-R/CD-RW
- VCD (1.0 and 2.0) and SVCD
- Photo CD/Kodak Picture CD
- VHS
- Stereo
- Hi-Fi
- NTSC

CD-ROM, DVD-ROM, DVD-RW and DVD Audio discs cannot be played on this system.

• **Region 1** - Your system has a region code printed on the back of the unit and will only play DVD discs labeled with the same region code.

A QUICK LOOK AT THE REMOTE CONTROL

RECORD — Press to start a VCR recording.

POWER — Press to turn the system on or off.

BYPASS / ANT — Press to view your TV's tuner (RF antenna connection only).

ZERO / GOTO —Press to fast wind the VHS tape to the counter position 0:00:00. (OR) Press to jump to a specific title, chapter, track, or counter position (not available on all discs).

PROGRAM — Press to arrange a custom playback order for the currently loaded disc.

TV-VCR — Press to select the TV-VCR function in order to watch the TV or VHS tapes.

REPEAT — Press to repeat the entire disc, individual chapters, or tracks.

SLEEP — Press to set the sleep timer to turn off the system automatically.

DISC — Press to select any disc function, such as DVD, CD, VCD, or MP3.

0-9 — Use to enter numeric data in on-screen menus and to select channels in TV-VCR mode.

RADIO — Press to select the Tuner function and switch between AM and FM.

MUTE — Press to silence the audio output.

AV 1-2 — Press to select an external device connected to the front or rear line inputs (Line 1 - ANALOG 1, or Line 2 - ANALOG 2, DIGITAL IN.)

VOLUME ▲ / ▼ — Press to adjust the volume level of the system.

DISC MENU/SP/EP — Press to view the disc menu for the currently loaded DVD (if available). (OR) Press to set the VHS recording speed to SP (Standard Play) or EP (Extended Play).

100 / AM-PM — Press to select channel 100 and higher. Also use to set AM or PM in the clock setup menu.

CHANNEL ▼ / ▲ — Press to select channels in the TV or VCR mode.

ENTER / SET — Press to enter or confirm menu settings.

PLAY — Press to begin playback of a disc or VHS tape.

EQ MODE — Press to select one of the preset equalizer settings.

RETURN/CANCEL — Press to cancel certain selections in the menu system.

DISPLAY — Press to reveal on-screen feedback of the curent system status.

◄/ ▲ / ► / ▼ — Press the arrows to navigate the on-screen menus.

PAUSE — Press once to pause playback. Press repeatedly to step forward one frame at a time.

SETUP / MENU — Press to display setup menus for the DVD and VCR. During DVD playback, this activates the disc menu.

SLOW/MEM — Press to activate slow motion playback for a disc or VHS tape. (OR) Press to save a radio preset.

STOP — Press to stop playback of a disc or VHS tape.

PRESET -/+ |◄◄/►►| — Press to skip to the previous or next preset radio station. (OR) Press to skip to the previous or next chapter or track on a disc.

TUNING -/+ ◄◄/►► — Press to tune the radio to the desired station. (OR) Press to scan a disc backwards or forward at variable speeds. (OR) Press to rewind or fast-forward a VHS tape (in the STOP mode). (OR) Press to a scan a VHS tape backward or forward at variable speeds (in the PLAY mode).

SPK LEVELS — Press to select the desired speaker, then adjust the volume level using ▲ / ▼.

ST/MO/ZOOM — Press to set the selected FM station output to stereo or mono sound. (OR) Press to zoom in during DVD playback.

AUDIO/SKIP — Press to select the desired audio track or format (if available) on the current disc. (OR) Press to skip ahead 30 seconds during VHS playback.

TITLE / -DPSS — Press to display the DVD title menu (if available). (OR) Press to search for the previous index mark on a VHS tape.

BASS/TREB Press to select bass or treble, then adjust using ▲ / ▼.

ANGLE / DPSS+ — Press to view DVD scenes from additional angles (if available). (OR) Press to search for the next Index mark on a VHS tape.

SUBTITLE/REPLAY — Press to select the desired DVD subtitle language (if available). (OR) Press to replay the last (previous) 20 seconds of VHS tape.

SURROUND — Press to toggle between surround sound (Dolby Digital 5.1, DTS 5.1, or Pro Logic) and stereo sound (2-channel plus subwoofer).

NOTE: PROGRESSIVE SCAN - To enable Progressive Scan, open the DVD disc tray and then press **STOP** *5 times (PSCAN ON appears on the front panel display). To return to Interlaced Scan mode, open the disc tray and press* **STOP** *5 times (PSCAN OFF appears on the front panel display).*

A QUICK LOOK AT THE FRONT PANEL CONTROLS

1. **POWER** — Press to turn the system on or off.

2. **IR SENSOR** — Aim the remote control here.

3. **EJECT** — Press to remove the currently loaded VHS tape.

4. **VHS DECK** — Insert the videotape here.

5. **OPEN/CLOSE** — Press to open and close the DVD tray.

6. **DISC TRAY** — Insert disc (DVD, CD, etc.) here.

7. **PHONES** — Insert headphone plug here.

8. **FUNCTION SELECTOR** — Rotate to select the desired home theater function: VCR (TV), DISC, FM, AM, ANALOG 1, ANALOG 2 and DIGITAL.

9. **EQ MODE** — Press to select a preset equalizer setting.

10. **BASS/TREBLE** — Press to select bass or treble, and then adjust using ▲ / ▼.

11. **SPEAKER LEVELS** — Press to select the desired speaker, and then adjust the volume level using ▲ / ▼.

12. **STORE PRESET** — Press to save a radio preset.

13. **SETUP/MENU** — In full Stop mode, press to display the setup menus for the DVD and VCR decks. In all other DVD Play modes (PLAY, RESUME STOP, etc.), press to display the DVD disc menu.

14. **ENTER/SET** — Press to enter and confirm menu settings.

15. **◄/ ▲ / ► / ▼** — Press to navigate the on-screen menus.

16. **REC** — Press to start recording in the VCR deck.

17. **REW ◄◄** — In the Disc function, press to skip to the previous chapter/track. In the VCR function, press to rewind the tape. In Play mode, press to scan backward at variable speeds.

18. **PLAY** — Press to start playback of a disc or VHS tape.

19. **PAUSE** — Press once to pause playback. Press repeatedly to step forward one frame at a time.

20. **FF ►►** — In the Disc function, press to skip to the next chapter/track. In the VCR function, press to fast-forward the tape. In Play mode, press to scan forward at variable speeds.

21. **STOP** — Press to stop playback of a disc or VHS tape.

22. **COPY** — Press to copy the disc in the DVD deck to the videotape in the VCR deck. The system will not copy Macrovision® encoded DVDs.

23. **VOLUME** — Rotate to adjust the volume.

24. **AV INPUT 1(VIDEO L-AUDIO-R)** — Connect to the audio/video outputs of a camcorder, video game or other component.

A QUICK LOOK AT THE FRONT PANEL DISPLAY
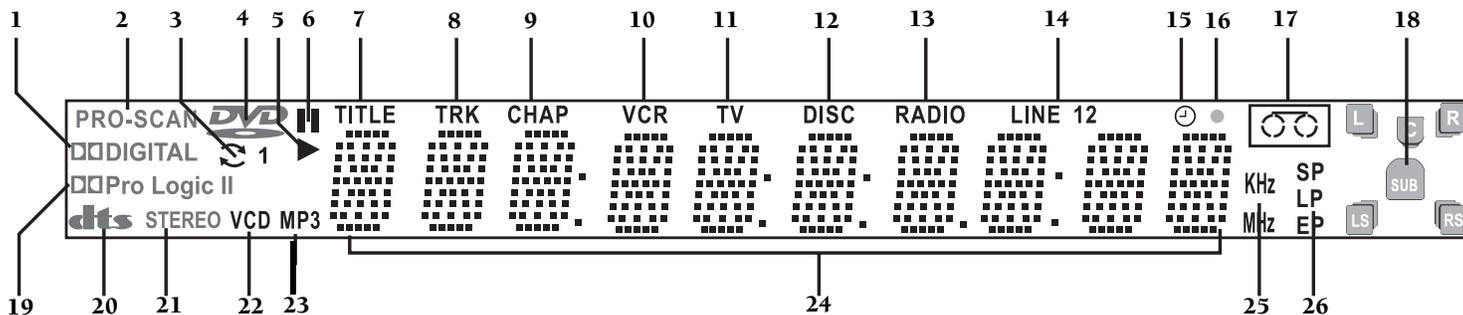
1. **DOLBY DIGITAL** — Lights if a DVD with a Dolby Digital 5.1 soundtrack is playing.

2. **PRO SCAN** — Lights if the Progressive Scan Component Video output is active.

3. **REPEAT** — Lights if a disc is in Repeat mode.

4. **DVD** — Lights if a DVD disc is loaded.

5. **PLAY** — Lights if a disc or videotape is in Play mode.

6. **PAUSE** — Lights if a disc or videotape is in Pause mode.

7. **TITLE** — Shows current title number.

8. **TRACK —** Shows current track number.

9. **CHAPTER** — Shows current chapter number.

10. **VCR** — Lights if the VCR function is active.

11. **TV** — Lights if the TV function is active.

12. **DISC** — Lights if the Disc function is active.

13. **RADIO** — Lights if the Tuner function is active.

14. **LINE 1-2** — Lights if the AV 1 or AV 2 function is active.

15. **TIMER** — Lights if a timed recording is programmed.

16. **RECORD** — Lights if the VCR is in Record mode.

17. **TAPE** — Lights if a tape is loaded in the VCR deck.

18. **SPEAKERS** — Shows the currently active speakers.

19. **DOLBY PRO LOGIC** — Lights if Dolby Pro Logic surround sound is active.

20. **DTS** — Lights if a DVD with a DTS soundtrack is loaded.

21. **STEREO** — Lights if stereo audio is selected in FM mode.

22. **VCD** — Lights if a VCD or SVCD disc is loaded.

23. **MP3** — Lights if an MP3 on a CD-R or CD-RW disc is played.

24. **STATUS** — Shows the current system status; including disc title number, chapter or track number, counter position, and radio frequency.

25. **KHz/MHz** — In the Tuner function, lights KHz for AM mode and MHz for FM mode.

26. **PLAY/RECORD SPEED** — In the VCR function, shows the current playback or record speed.

A QUICK LOOK AT THE REAR PANEL
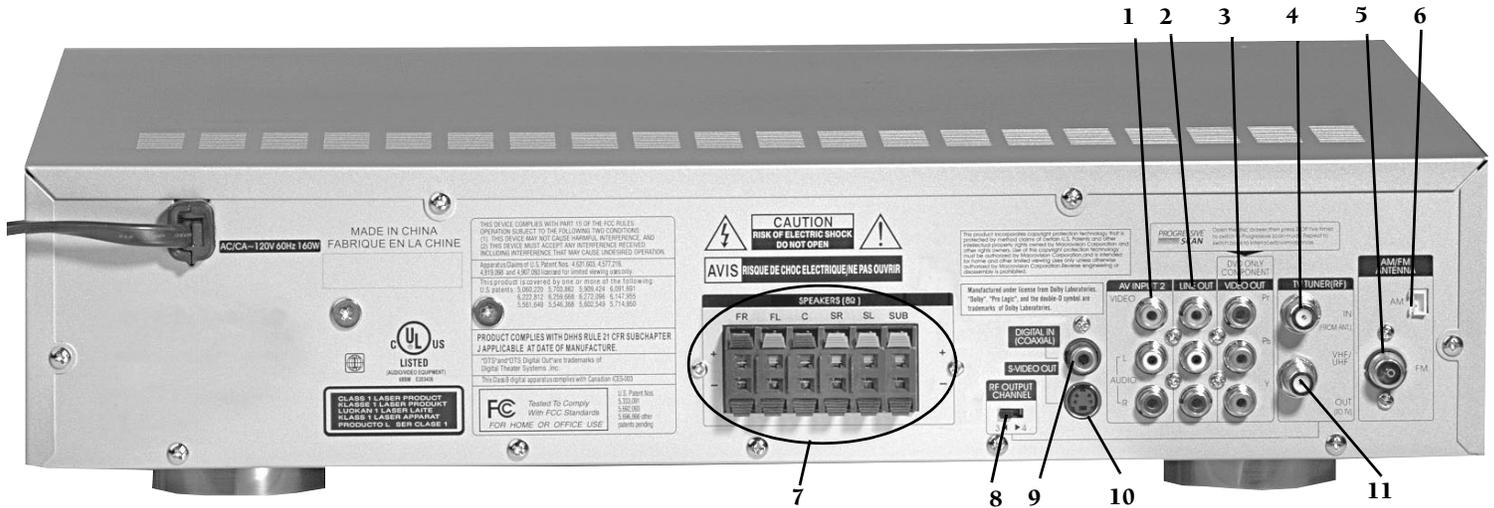
1. **AV INPUT 2** — Connect to the audio/video outputs of an external device, such as a second VCR, with audio/video cables.

2. **LINE OUT** — Connect to the audio/video inputs of your television with audio/video cables.

3. **COMPONENT VIDEO OUT** — Connect to your television's component video inputs (if available) with component video cables.

4. **IN (FROM ANT.)** — Connect to an indoor/outdoor antenna or CATV jack with an RF coaxial cable.

5. **FM ANTENNA** — Connect to the supplied FM Antenna.

6. **AM ANTENNA** — Connect to the supplied AM Antenna.

7. **SPEAKERS (FR, C, FL, SR, SL, SUB)** — Connect to the supplied speakers (Front Right, Center, Front Left, Surround Right, Surround Left, and Subwoofer) with speaker cables.

8. **RF OUTPUT SWITCH** — Switch to 3 or 4, whichever is used by your local area broadcast for TV, when connecting the system with the RF out connection.

9. **DIGITAL AUDIO IN** — Connect to the digital audio output of an external device, such as a digital satellite receiver, with a digital coaxial cable.

10. **S-VIDEO OUT** — Connect to your television's S-Video input (if available) with an S-Video cable.

11. **TV TUNER (RF) OUT (TO TV)** — Connect to your television's RF input with an RF coaxial cable.

CONNECTIONS

Follow these steps to connect the home theater system. It is recommended that you turn off power on all components (or unplug AC power) while you are connecting the system.

PLACING THE SPEAKERS

For best results, arrange the six speakers in your listening area as shown:
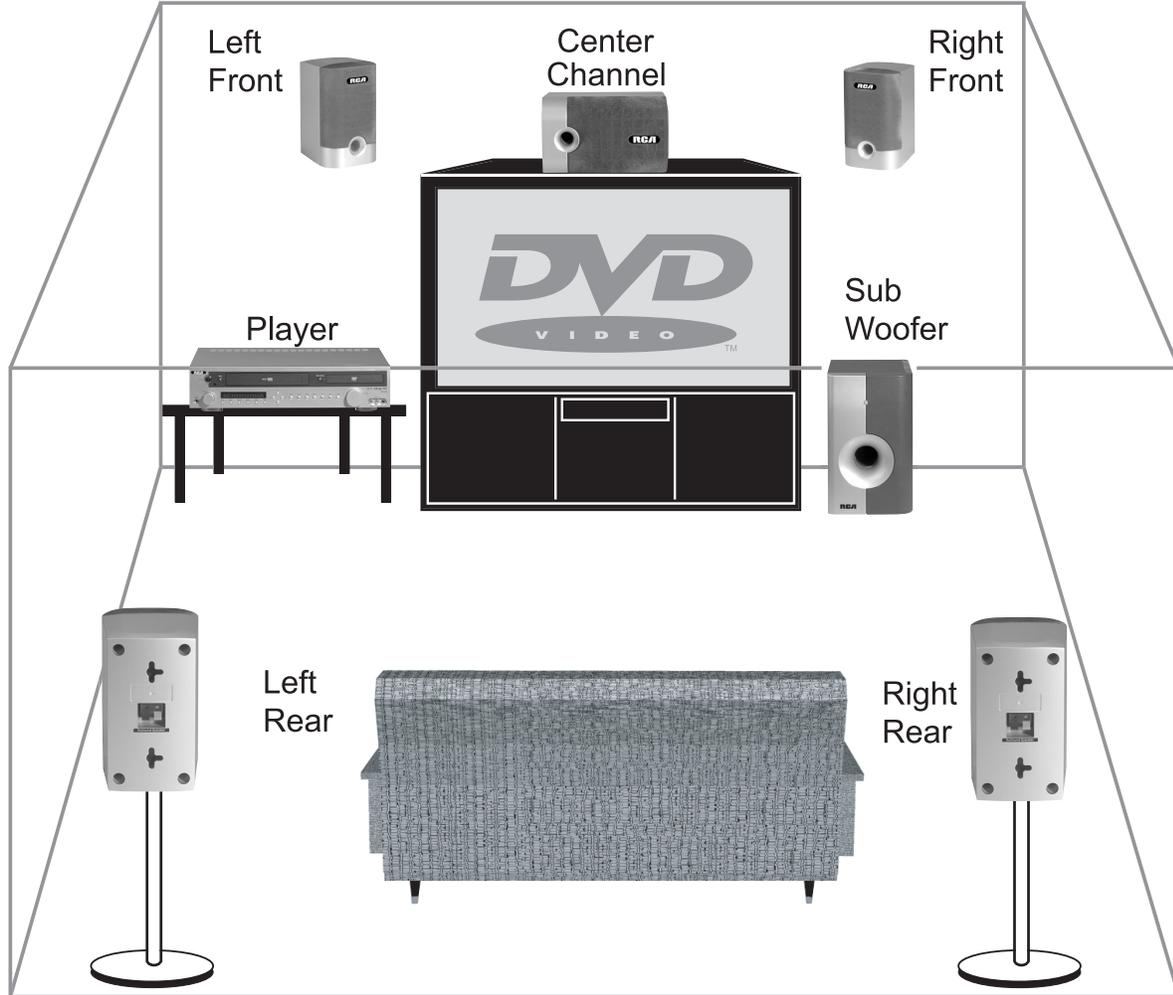
Front Speakers (L, R)

Set the front speakers so they are aligned at ear level and at a horizontal angle of 45 degrees to the primary listening area.

Center Speaker (C)

The center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top of or next to your TV set.

Rear Speakers (LS, RS)

Set the surround speakers further back, parallel to the walls, at two to three feet above the ear level of the primary listening area. If the space behind the listening area is limited (i.e., close to the wall), place the rear speakers facing each other on either side.

Subwoofer (SUB)

Place the subwoofer at any convenient location within the listening area.

CONNECTING SPEAKERS

1. Make sure the power is turned off to prevent possible damage to the system.

2. Connect each pair of speaker wires to the color-coded connectors on the back of each speaker, and to the matching connectors on the back panel of the system (Center = blue, Front = red, Surround = gray, Subwoofer = black).

3. To insert a speaker wire, press down on the red or black thumb lever, insert the tip of the wire, and then release thethumb lever to lock the wire in place.
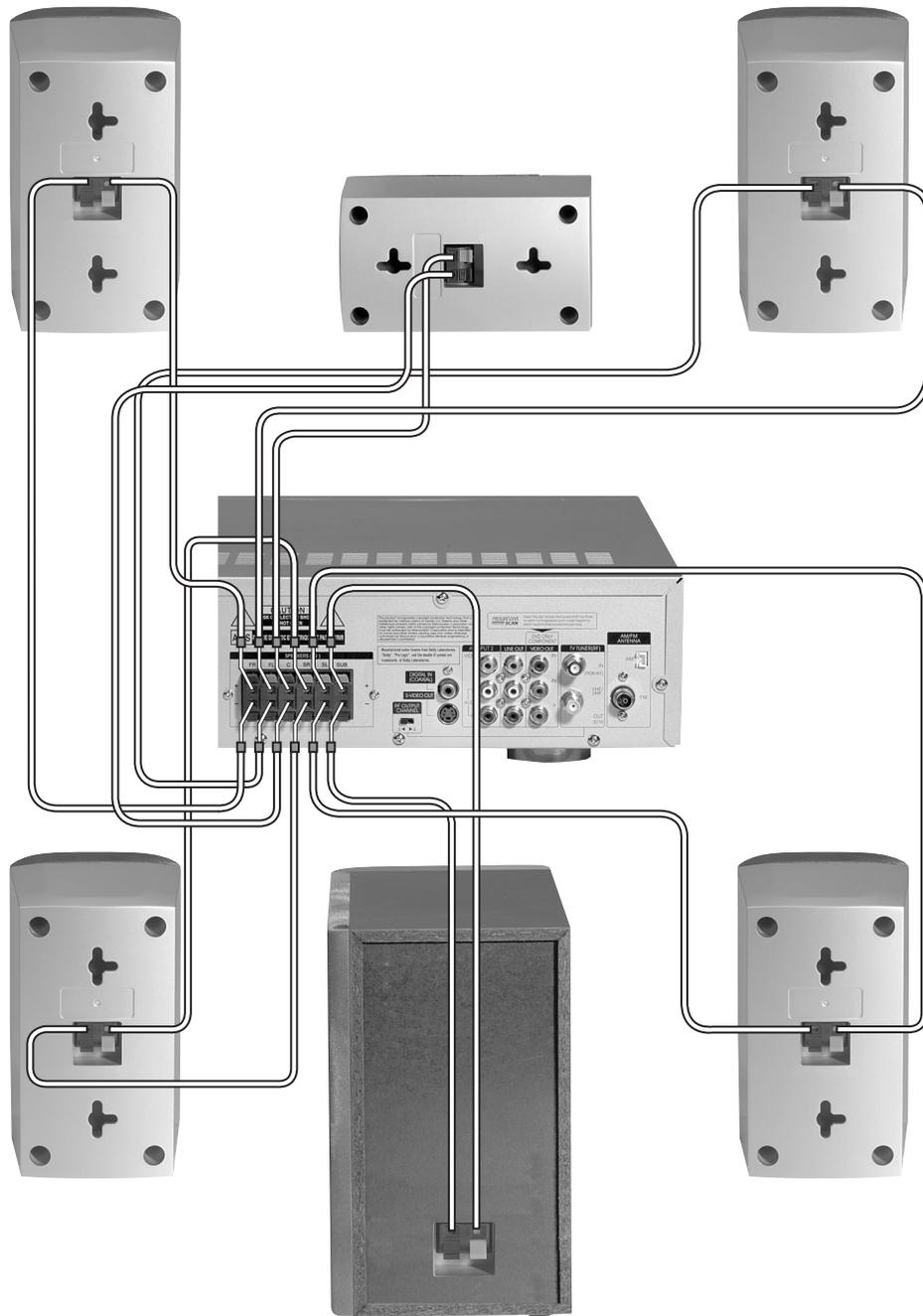
CAUTION : *Short circuits may damage the system. Make sure the exposed tip of each speaker wire does not touch another speaker wire or terminal.*

NOTE: *To obtain the best possible surround sound, use the test tone feature and balance the speakers (see "Audio Menu" on Page 16, and "Adjusting Speaker Levels" on Page 24.)*

CONNECTING THE ANTENNA OR CABLE

Antenna or Basic Cable

Connect the RF coaxial cable from your antenna or cable TV wall jack to the **IN (FROM ANT.)** jack on the back panel of the home theater system.

Cable Box or Satellite Receiver

Connect an RF coaxial cable from the output jack of your cable box or satellite receiver to the **IN (FROM ANT.)** jack on the back panel of the home theater system. With this arrangement, use your cable box or satellite receiver to select channels.

CONNECTING THE AM/FM ANTENNAS

AM Antenna

Assemble the supplied AM loop antenna by rotating the base and snapping it into place. Connect the two wires from the AM loop antenna to **AM** on the back panel. Press down on the thumb levers to insert each wire, and then release to lock the wires in place.

FM Antenna

Connect the supplied FM wire antenna to **FM** on the back panel. Be sure to fully extend the FM wire antenna. Make use of the small loop at the free end of the antenna to maintain its position. If noise or interference occurs, use an external antenna with a 75 ohm coaxial cable (not included).

CONNECTING THE TV
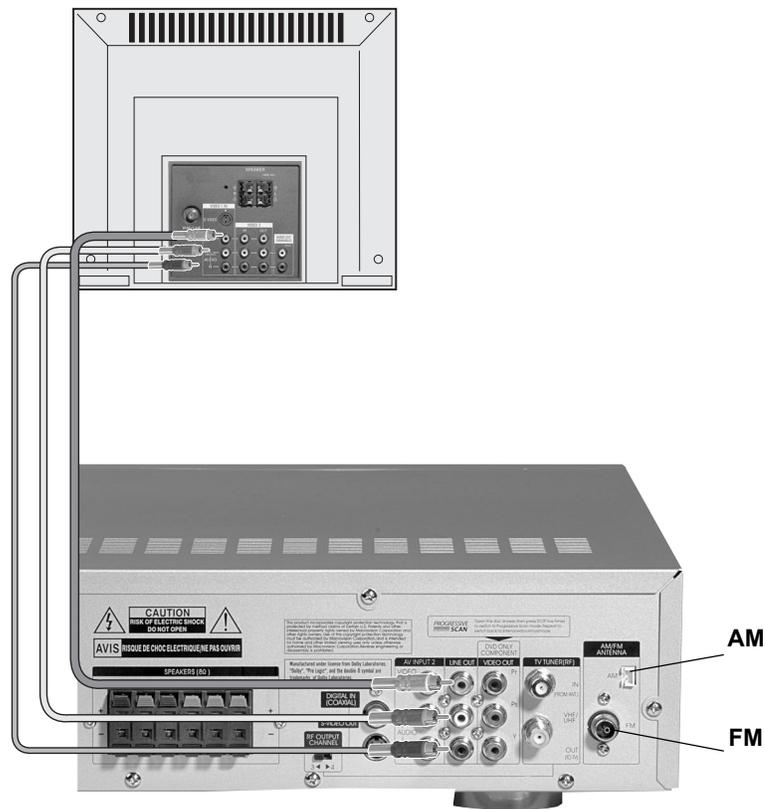
Connecting the TV to RF (Antenna)

Use this connection if you have an older television with only a basic antenna input.

Connect an RF coaxial cable from the **OUT (TO TV)** jack on the back panel of the system to the antenna input on your television. Set the RF Output Channel switch on the back panel to **3** or **4** and tune your TV to the same channel.

Connecting the TV to Composite Video

Use this connection for better sound and picture quality if your television has a video input.

Connect an audio/video cable from the **LINE OUT (VIDEO)** jack on the back panel of the system to the video input on your television. Set your television to view its video input.

Connecting the TV to S-Video

Use this connection for improved picture quality when watching DVD movies.

13

Connect an S-Video cable from the **S-VIDEO OUT** jack on the back panel of the system to the S-Video input on your television. Set your television to view its S-Video input.

Connecting the TV to Component Video (DVD only)

Use this connection for superior picture quality when watching DVD movies.

Connect a component video cable from the **COMPONENT VIDEO OUT** jacks on the back panel of the system to the component video inputs on your television. Set your television to view its Component Video input.

NOTE: *PROGRESSIVE SCAN - To enable Progressive Scan, open the DVD disc tray and then press* **STOP** *5 times (*PSCAN ON *appears on the front panel display). To return to Interlaced Scan mode, open the disc tray and press* **STOP** *5 times (*PSCAN OFF *appears on the front panel display).*

IMPORTANT: *When Progressive Scan is enabled, no Composite or S-Video signals are available from the DVD player.*

CONNECTING EXTERNAL DEVICES

Four additional audio/video inputs and outputs are provided to connect external devices, such as a VCR, satellite receiver or digital cable box (optional).

AV INPUT 1

Connect to the audio/video outputs of a video game, camcorder, or other external device with audio/video cables.

AV INPUT 2

Connect to the audio/video outputs of a cable box, VCR, or other external device with audio/video cables.

Line Out

Connect to the inputs of your TV, stereo, or other external device with audio/video cables.

IMPORTANT: To prevent audio echo, do not use the TV sound system and the home theater sound system at the same time.

Digital In (Coaxial)

Connect to the digital audio output of a satellite receiver, or other external device with a digital coaxial cable.

RUNNING AUTO SETUP

Connect the power cord to a standard 120VAC/60Hz electrical outlet, but DO NOT PRESS THE POWER BUTTON AT THIS TIME. Let the Auto Setup run first.

The Auto Setup feature automatically searches for channels and sets the clock when a cable from an antenna or cable TV outlet is connected to the IN (FROM ANT.) jack on the back panel and the power plug is connected to an AC outlet. DO NOT PRESS THE POWER BUTTON until Auto Setup is complete. Auto blinks on the front panel display while Auto Setup is in progress. When Auto Setup is complete the correct time is displayed

The unit will search for all TV channels in your area. This may take several minutes.

You can also search for channels manually, add/erase channels, or search for cable TV channels (see "Channel Preset" on Page 17.)

The unit will find a TV station broadcasting the time (via Extended Data Services, or EDS) and set the clock.

If the clock is set incorrectly, or if you wish to program a timer recording immediately, you can set the clock manually (see "Setting the Clock Manually" on Page 18.)

Auto Setup is complete when "Auto" stops blinking and the correct time appears on the front panel display.

NOTE: *If you plug in the unit before you connect the antenna, Auto Setup will not be able to preset channels into memory. If this occurs, unplug the unit for several minutes. Check the cable or antenna connection and plug in the unit again. Auto Setup will automatically begin again.*

POWER ON THE SYSTEM

Press **POWER** on the front panel, or the remote control, to turn on the unit.

About Standby Mode

- The system is always in Standby mode when the AC power cord is plugged into an electrical outlet.

- In Standby mode, the clock is shown on the front panel display and the blue power indicator light turns off.

- In Power On mode, the system status is shown on the front panel display and the blue power indicator light turns on.

- The only way to power on the main unit is to press **POWER** on the front panel or remote control.

DVD SETUP MENU

```
┌──────────────────────────────────┐
│          SETUP MENU              │
│  ┌────────────────────────────┐  │
│  │       VIDEO MENU           │  │
│  ├────────────────────────────┤  │
│  │       AUDIO MENU           │  │
│  ├────────────────────────────┤  │
│  │     DISC PREFERENCES       │  │
│  └────────────────────────────┘  │
│  ┌────────────────────────────┐  │
│  │       EXIT SETUP           │  │
│  └────────────────────────────┘  │
│                                  │
└──────────────────────────────────┘
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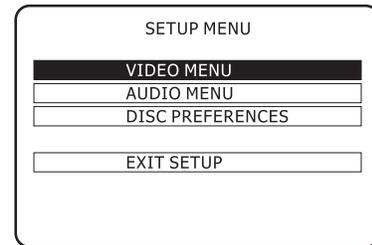
Video Menu

The Video Menu allows you to set TV Display, Video Output and OSD (On-Screen Display) Language.
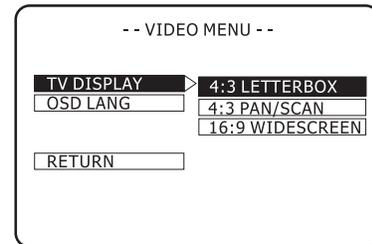
```
┌──────────────────────────────────┐
│        - - VIDEO MENU - -        │
│                                  │
│  ┌────────────┐  ┌────────────┐  │
│  │ TV DISPLAY │► │4:3 LETTERBOX│ │
│  ├────────────┤  ├────────────┤  │
│  │ OSD LANG   │  │4:3 PAN/SCAN │ │
│  └────────────┘  ├────────────┤  │
│                  │16:9 WIDESCREEN│ │
│  ┌────────────┐  └────────────┘  │
│  │  RETURN    │                  │
│  └────────────┘                  │
└──────────────────────────────────┘
```

1. Press **DISC** on the remote control, or rotate **FUNCTION SELECTOR** to select the **DISC** function.

2. Press **SETUP/MENU** to view the DVD Setup Menu.

   Playback must be stopped in order to view the DVD Setup Menu.

3. Use ▼ and ▲ to select **VIDEO MENU** and then press **ENTER/SET**.

4. Use the arrow keys to select each of the following, and then press **ENTER/SET** to set your preference.

   TV Display:

   Some DVDs have both letterbox (widescreen) and pan/scan full screen) versions on the same disc. The TV Display option sets your viewing preference if this occurs.

   4:3 Letterbox: Select if you have a standard 4:3 television and prefer to watch the letterbox (widescreen) versions of DVD movies. Movies will display with black bars above and below the picture.

   4:3 Pan/Scan: Select if you have a standard 4:3 television and prefer to watch the full-screen versions of DVD movies.

   16:9 Widescreen: Select if you have a widescreen 16:9 television.

   OSD Lang:

   OSD LANG sets your preferred language for the DVD setup menu and on-screen displays. Select English, French or Spanish.

5. Press **SETUP/MENU** to save and exit.

Audio Menu

The Audio Menu allows you to set Center Delay, Rear Delay, Test Tone and Dynamic range.
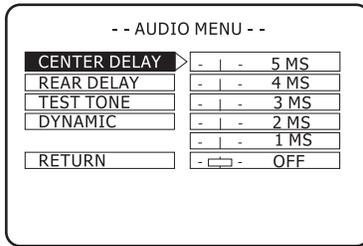
```
- - AUDIO MENU - -

CENTER DELAY      - | -    5 MS
REAR DELAY        - | -    4 MS
TEST TONE         - | -    3 MS
DYNAMIC           - | -    2 MS
                  - | -    1 MS
RETURN            - ▭ -    OFF
```

1. Press **DISC** on the remote control, or rotate **FUNCTION SELECTOR** to select the **DISC** function.

2. Press SETUP/MENU to view the DVD Setup Menu.

3. Use ▼ and ▲ to select **AUDIO MENU** and then press **ENTER/SET**.

4. Use the arrow keys to select each of the following, and then press **ENTER/SET** to set your preference.

    Center Delay delays the sound from the center speaker so that it arrives at your primary listening area at the same time as the left and right front speakers. Use only if the center speaker is closer to your primary listening area than your front speakers. Assume 1 MS (millisecond) of delay for every 1 foot of difference in distance. For example, if your center speaker is 2 feet closer than your front speakers, then set the Center Delay to 2 MS.

    Rear Delay delays the sound from the rear speakers so that it arrives at your primary listening area at the same time as the left and right front speakers. Use only if the rear speakers are closer to your primary listening area than your front speakers. Assume 1 MS (millisecond) of delay for every 1 foot of difference in distance. For example, if your rear speakers are 9 feet closer than your front speakers, then set the Rear Delay to 9 MS.

    Test Tone sends a test tone to each of the five primary speakers so you can fine tune the levels for your primary listening area. Listen carefully to the test tone as it moves to each speaker in the following order: Left, Center, Right, Right Surround, Left Surround. When finished, use **SPK LEVELS** on the remote control or front panel to adjust the levels for each individual speaker.

    Dynamic limits the dynamic range (the difference between the loudest and quietest portions of the audio track) during DVD playback. For example, when you are watching a movie late at night and want to reduce loud noises (like explosions) and increase the volume of soft noises (like whispering). Choose from $^1/_8$ (minimum compression) to Full (maximum compression).

5. Press **SETUP/MENU** to save and exit.

Disc Preferences

The Disc Preferences menu allows you to set language preferences (for Audio formats, Subtitles and Disc Menus), Parental Control options, and system defaults.
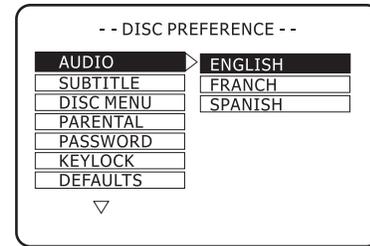
```
- - DISC PREFERENCE - -

AUDIO          ▷ ENGLISH
SUBTITLE         FRANCH
DISC MENU        SPANISH
PARENTAL
PASSWORD
KEYLOCK
DEFAULTS
       ▽
```

1. Press **DISC** on the remote control, or rotate **FUNCTION SELECTOR** to select the **DISC** function.

2. Press **SETUP/MENU** to view the DVD Setup Menu.

3. Use ▼ and ▲ to select **DISC PREFERENCES**, and then press **ENTER/SET**.

4. Use the arrow keys to select each of the following, and then press **ENTER/SET** to set your preference.

    Audio sets your preferred language for DVD audio soundtracks. Select English, French or Spanish. Languages vary from disc to disc. The disc itself may override your selection.

    Subtitle sets your preferred language for Subtitles. Select English, French or Spanish. Languages vary from disc to disc. The disc itself may override your selection. Select **OFF** to always turn Subtitles off.

    Disc Menu sets your preferred language for DVD disc menus. Select English, French or Spanish. Languages vary from disc to disc. The disc itself may override your selection.

    Parental sets a rating to block playback of inappropriate content with a password-protected Rating system. DVDs that are rated higher than the level you select will not play without entering the correct password. Not all discs are rated.

    Password allows you to set a password to lock the Parental rating (see "Parental" above).

    • Select **CHANGE**.

    • Use **0-9** to enter the OLD PASSWORD.

    • Enter the NEW PASSWORD.

    • Re-enter the password to confirm.

    If you forget your password, you can use the universal password (3-3-0-8) to unlock it. The default password is 1-2-3-4.

    Keylock locks the front panel keys so the unit can only be operated with the remote control. Select **On** or **Off**.

    Defaults resets all Disc Preferences to their default settings.

5. Press **SETUP/MENU** to save and exit.

VCR SETUP MENU

```
              MENU

TIMER
SETUP
CHANNEL PRESET
CLOCK
LANGUAGE


SELECT : ▲ ▼
ENTER : SET    EXIT   : MENU
```
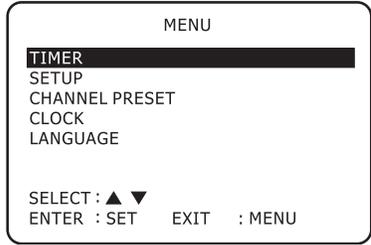
Setup

The VCR Setup menu allows you to adjust miscellaneous system settings, including Auto Repeat, Blue Screen, Second Audio Program (SAP) and Audio Output.
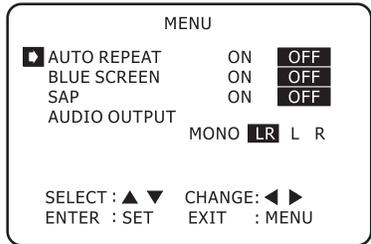
```
              MENU

▶ AUTO REPEAT     ON   OFF
  BLUE SCREEN     ON   OFF
  SAP             ON   OFF
  AUDIO OUTPUT
                MONO LR  L  R


  SELECT : ▲ ▼    CHANGE: ◀ ▶
  ENTER : SET    EXIT   : MENU
```

1. Press **TV-VCR** on the remote control, or rotate **FUNCTION SELECTOR** to select the **VCR** function.

2. Press **SETUP/MENU** to view the VCR Setup Menu.

3. Use ▼ and ▲ to select **SET UP**, and then press **ENTER/SET**.

4. Use the arrow keys to select each of the following, and then press **ENTER/SET** to set your preference.

   Auto Repeat: Causes the tape in the VCR deck to repeat automatically when the end of the tape is reached. Select **ON** or **OFF**.

   Blue Screen: Causes a blue screen to appear when a television station with a weak signal is received. Select **ON** or **OFF**.

   Second Audio Program (SAP): Causes a Second Audio Program, usually a second language, to be broadcast instead of the normal audio while watching TV (not available for all television broadcasts). Select **ON** or **OFF**.

   Audio Output: Sets the audio format from the LINE OUT jacks on the back panel of the home theater system. Select MONO, LR (Stereo), L(eft) or R(ight) channel audio. Set the audio output to MONO, L or R only if you connect the system to a mono TV (with a single white audio input jack) and do not wish to use the surround speakers.

5. Press **ENTER/SET** to save and exit.

Channel Preset

The Channel Preset menu allows you to specify whether you are using an antenna or cable and then allows you to search automatically or manually for local channels.
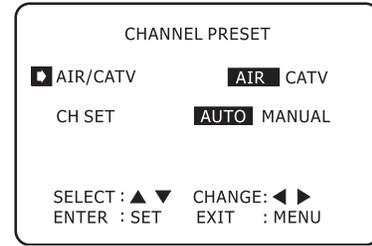
```
           CHANNEL PRESET

▶ AIR/CATV              AIR  CATV

  CH SET               AUTO  MANUAL


  SELECT : ▲ ▼    CHANGE: ◀ ▶
  ENTER : SET    EXIT   : MENU
```

1. Press **TV-VCR** on the remote control, or rotate **FUNCTION SELECTOR** to select the **VCR** function.

2. Press **SETUP/MENU** to view the VCR Setup Menu.

3. Use the arrow keys to select **CHANNEL PRESET** and then press **ENTER/SET**.

4. Use the arrow keys to select each of the following, and then press **ENTER/SET** to set a preference.

   Air/CATV sets the manner in which you receive television programs.

   Air
   Select this option if you are using an indoor/outdoor antenna to receive local channels.

   CATV
   Select this option if you have basic cable (CATV) or have connected a cable box or satellite receiver to the system.

   Channel Set sets the manner in which television programs will be saved.

   Auto
   Select this option to have the system automatically search for all channels that you can receive. This may take several minutes.

   Manual
   Select this option to add or erase channels manually (see below).

   Add/Erase Channels

   • Use ▼ and ▲ to select the desired channel.

   • Use ◀ to add or ▶ to erase the selected channel.

```
                    ADD        02




  CHANNEL SELECT        : ▲ ▼
  ADD/ERASE             : ◀ ▶
              EXIT    : MENU
```
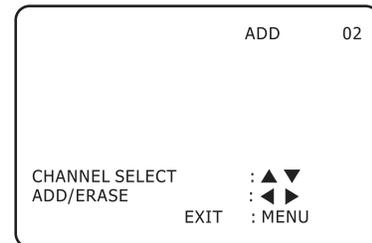
5. Press **ENTER/SET** to save and exit.

Clock

The Clock menu allows you to set the time for your home theater system, which is essential for accurate timer recording.

Follow these steps to set the clock automatically.

1. Press **TV-VCR** on the remote control, or rotate **FUNCTION SELECTOR** to select the **VCR** function.

2. Press **SETUP/MENU** to view the VCR Setup Menu.

3. Use the arrow keys to select **CLOCK** and then press **ENTER/SET**.

4. Use the arrow keys to select **AUTO** and then press **ENTER/SET**.

5. Use the arrow keys to select each of the following, and then press **ENTER/SET** to set your preference.

   EDS Ch Set

   EDS stands for Extended Data Services and refers to information, such as the time and date, that is often broadcast by local PBS stations.

   Auto: Select this option to allow the system to automatically search for a channel that broadcasts the time in your area.

   Manual: Select if you know a local station that broadcasts the time (usually PBS). See "EDS Ch" below.

   EDS Ch: If you set **EDS CH SET** to **Manual**, use ▼ to select **EDS CH** and then use ◀ and ▶ to manually select a channel that broadcasts the local time.

6. Press **ENTER/SET** to save and exit.

Setting the Clock Manually

If the Auto feature sets the clock incorrectly, you can set the clock manually.

1. Press **TV-VCR** on the remote control, or rotate **FUNCTION SELECTOR** to select the **VCR** function.

2. Press **SETUP/MENU** to view the VCR Setup Menu.

3. Use the arrow keys to select **CLOCK** and then press **ENTER/SET**.

4. Use the arrow keys to select **MANUAL**, and then press **ENTER/SET**.

5. Use ▼ and ▲ or **0-9** keys to set the time, and then press ▶. Press **AM/PM** to select AM or PM.

```
                   CLOCK

      TIME       DATE      YEAR   DST
      6:23PM   11/19WED     03    OFF




      SELECT : ▲ ▼    CHANGE: ◀ ▶
      ENTER : SET     EXIT   : MENU
```
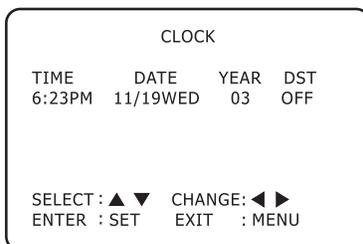
6. Use ▼ and ▲ to set the date, and then press ▶.

7. Use ▼ and ▲ to set the year, and then press ▶.

8. Use ▼ and ▲ to set Daylight Savings Time (DST) on or off.

9. When finished, press **ENTER/SET** to save and exit.

Language

The Language menu allows you to set your preferred language for the VCR setup menu and on-screen displays.
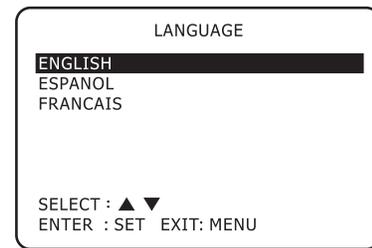
```
                  LANGUAGE

      ENGLISH
      ESPANOL
      FRANCAIS




      SELECT : ▲ ▼
      ENTER : SET   EXIT: MENU
```

1. Press **TV-VCR** on the remote control, or rotate **FUNCTION SELECTOR** to select the **VCR** function.

2. Press **SETUP/MENU** to view the VCR Setup Menu.

3. Use the arrow keys to select **LANGUAGE**, and then press **ENTER/SET**.

4. Use the arrow keys to set the VCR menu language to **English**, **Espanol** or **Francais**.

5. Press **ENTER/SET** to save and exit.

BASIC OPERATIONS

SELECTING FUNCTIONS

The first step in using this Home Theater System is to select one of the four basic functions.

VCR (TV) Function

Press **TV-VCR** to watch TV or watch/record a video with the VCR deck.

Disc Function

Press **DISC** to watch movies on DVD or VCD, or listen to music from a CD or MP3 CD.

Radio Function

Press **RADIO** to listen to the FM or AM tuner.

4 Line 1-2 Function

Press **LINE 1-2** to watch or listen to an external device connected to the front **LINE 1 IN** jack, the rear **LINE 2 IN** or the rear **DIGITAL IN** jacks.

NOTE: *You can rotate* **FUNCTION SELECTOR** *on the front panel to select* TV-VCR, DISC, FM, AM, ANALOG 1, ANALOG 2, *or* DIGITAL.

BASIC TV-VCR FUNCTIONS

Playing a VHS/S-VHS Tape

1. Turn on the system and press **TV-VCR**, or rotate the **FUNCTION SELECTOR** knob on the front panel to select VCR.

2. Insert a VHS or S-VHS tape into the VCR deck.

3. Press **PLAY** to start playback.

4. Press **STOP** to end playback.

5. Press **EJECT** on the front panel to remove the tape.

Options During VHS Playback

- To freeze playback, press **PAUSE**. To advance one frame at a time when paused, press **PAUSE** again.

- To resume normal playback, press **PLAY**.

- To visually scan forward or backward at variable speeds, press ◄◄ or ►►.

- To play in slow motion, press **SLOW/MEM**.

- To skip ahead 30 seconds, press **SKIP**.

- To replay the last (previous) 20 seconds, press **REPLAY**.

- Tracking is adjusted automatically when you play a tape. To adjust tracking manually, press **CHANNEL** ▲ or ▼. To resume automatic tracking, press **CHANNEL** ▲ and ▼ at the same time.

RECORDING A TV PROGRAM

1. Turn on the system and press **TV-VCR**.

2. Insert a standard VHS tape with a record safety tab into the VCR deck.

3. Press **SP/EP** on the remote control to set the record speed to:

   SP Standard Play, for best quality.

   EP Extended Play, for maximum recording time (3 times longer than SP).

4. Use **0-9** or **CHANNEL** ▲ / ▼ to select the channel you wish to record.

5. Press **RECORD** to start recording. The red LED on the RECORD button will light on the front panel.

NOTES:

- *If the record safety tab is removed, the tape will eject if you try to record. If a tape wihout a tab is inserted during DVD mode it plays till it reaches the end. The tape then ejects and powers off the system.*

- *To record from an external device, first connect the device to the front (***LINE 1 IN***) or rear (***LINE 2 IN***) audio/video inputs. Then, press* **LINE 1-2** *or rotate* **FUNCTION SELECTOR** *to* ANALOG 1, ANALOG 2, *or* DIGITAL *to view the desired input on screen. Finally, press* **RECORD** *to record from the device.*

OPTIONS DURING RECORDING

- To pause recording, press **PAUSE**. The red LED on the RECORD button will blink on the front panel.

- To resume recording, press **RECORD** or **PAUSE**.

- To add recording time in 10-minute increments, press **RECORD** repeatedly. The unit will turn off when recording is finished.

- To stop recording, press **STOP**.

- To watch a television program different from the one you are recording, press **ANT/BYPASS** on the remote control, and then select a different television channel (RF connection only).

- To watch a DVD while you are recording, press **DISC** to select the DVD deck, then press **PLAY**.

COPYING A DVD TO VHS TAPE

1. Turn on the system and press **DVD**.

2. Insert the disc you wish to copy in the DVD deck and close the disc tray.

3. Insert a standard VHS tape with a record safety tab into the VCR deck.

4. Press **COPY** on the system front panel.

   The DVD will begin playback and the VCR will begin recording.

   If the DVD disc menu appears, press **PLAY** to start copying.

5. When the DVD is finished playing, press **VCR** on the remote control and then press **STOP**.

NOTES:

- *You must stop the copy process manually when the DVD movie ends, or the DVD may replay and record over and over again.*

- *If the DVD you are attempting to copy is copy protected, you will not be able to copy the disc. It is not permitted to copy Macrovision® encoded DVDs.*

SETTING A TIMED RECORDING

Follow these instructions to program the VCR to record up to eight television shows.

1. Turn on the system and press **TV-VCR**.

2. Press **SETUP/MENU** on the remote control.

3. Use the arrow keys to select TIMER, and then press **ENTER/SET**.

   If you have not set the clock, the CLOCK menu will appear. Set the clock.

4. Use the up/down arrow keys to select any available event and then press **ENTER/SET**.

   The first four events are on page 1 (labeled 1/2), and the second four events are on page 2 (labeled 2/2).

```
                              1/2
     DATE    CH   START    STOP
     --/--   ---  -:--     -:-- --
     --/--   ---  -:--     -:-- --
     --/--   ---  -:--     -:-- --
     --/--   ---  -:--     -:-- --
     ▼ 2/2
     CLEAR  : CANCEL
     SELECT : ▲ ▼   CHANGE: ◀ ▶
     ENTER  : SET     EXIT  : MENU
```

5. Use the up/down arrow keys to set when to record, and then press ▶. Choose one of these options.

   1/01 — Records only on the selected date.

   MO-FR — Records weekdays only (Monday – Friday).

   MO-SA — Records Monday – Saturday.

   DAILY — Records every day.

   SUN/MON/TUES/ETC. — Records every week on the same day.

6. Use ▲ / ▼ to set the channel to record, and then press ▶.

7. Use ▲ / ▼ to set the starting time, and then press ▶.

   Press the **AM/PM** button to select AM or PM.

8. Use ▲ / ▼ to set the stop time, and then press ▶.

   Press the **AM/PM** button to select AM or PM.

9. Use ▲ / ▼to set the record speed (SP or EP), then press ▶.

10. When finished, press **ENTER/SET** to save the programmed event.

11. Repeat steps 4-10 to record another event, or press **SETUP/MENU** to exit.

```
                              1/2
     DATE    CH   START    STOP
     11/19   04   6:30PM   7:30PM SP
     --/--   ---  -:--     -:-- --
     --/--   ---  -:--     -:-- --
     --/--   ---  -:--     -:-- --
     ▼ 2/2
     CLEAR  : CANCEL
     SELECT : ▲ ▼   CHANGE: ◀ ▶
     ENTER  : SET     EXIT  : MENU
```

12. Press **POWER** to turn off the system.

NOTES:

- *To cancel a recording, highlight it in the timer record menu and press* **RETURN/CANCEL**.

- *The system must be turned off for timed recordings.*

BASIC DISC FUNCTIONS

Playing a DVD, CD or VCD

Follow these steps to play a DVD, CD or VCD.

1. Turn on the system and press **DISC** on the remote control, or rotate **FUNCTION SELECTOR** to select DISC.

2. Press **OPEN/CLOSE** on the front panel to open the disc tray.

3. Place the disc in the tray with the label side facing up. If the disc has two sides, place the disc with the desired side facing down.

4. Press **OPEN/CLOSE** again to close the disc tray.

5. Most discs will play automatically when the disc drawer closes. If not, press **PLAY**.

   If the DVD has a disc menu, or more than one title, the disc menu may appear.

Disc Menu Navigation

Use the following keys to navigate DVD disc menus.

DISC MENU — Press to display the disc menu for the currently loaded disc.

◀/ ▲ / ▶ / ▼ — Press to highlight options in the disc menu.

ENTER/SET — Press to confirm selections in the disc menu.

0-9 — Press to make direct selections in some disc menus.

RETURN/CANCEL Press to display the previous menu or to exit the disc menu.

SETUP/MENU — (Front Panel) In DVD Play modes (PLAY, RESUME STOP, etc.), press to display the DVD disc menu.

Additional Disc Playback Options

- To freeze playback, press **PAUSE**. To advance one frame at a time (DVD only), press **PAUSE** again.

- To resume normal playback, press **PLAY**.

- To skip to the next or previous chapter/track, press ◄◄ or ►►.

- To scan forward or backward at variable speeds, press ◄◄ or ►►.

- To play in slow motion, press **SLOW/MEM**.

- To stop playback, press **STOP** once. **PRESS PLAY TO CONTINUE** appears on the TV screen. To resume playback from the same place on the disc, press **PLAY**. To stop playback completely and restart the disc, press **STOP** twice.

BASIC RADIO FUNCTIONS

Presetting Radio Stations

1. Turn on the system and press **RADIO** on the remote control, or rotate **FUNCTION SELECTOR** to select **FM** or **AM**.

   The last station received is tuned in and its band and frequency are displayed on the front panel display.

2. Press and hold **TUNING +/-** until the frequency starts to change. Then release.

   Scanning stops when the system tunes in a station.

   To tune in weak stations manually, press **TUNING +/-** repeatedly.

3. Press **SLOW/MEM** on the remote control or **STORE PRESETS** on the front panel.

   P - - appears on the front panel display.

4. Use the **0-9** buttons or press **PRESET +/-** to enter a preset number from **01** to **40** .

   You must enter the desired preset number within five seconds.

5. Press **SLOW/MEM** on the remote control or **STORE PRESETS** on the front panel again to store the preset number. **MEM** will appear to indicate the preset has been memorized.

6. Repeat steps 2-5 to preset up to 40 AM/FM stations.

   To change a preset station, simply save over the previously memorized preset.

Listening to Presets

1. Turn on the system and press **RADIO** on the remote control, or rotate **FUNCTION SELECTOR** to select **FM** or **AM**.

2. To select a preset station, use **0-9** , or press **PRESET +/-** to skip to the next or previous station.

Adjusting Stereo/Mono

If an FM station is noisy, press **ST/MO**.

- This turns off stereo sound, but may improve sound quality.

- To switch back to stereo, press **ST/MO** again. **Stereo** appears in the display.

- Not all stations are broadcast in stereo. For those stations without stereo, pressing the **ST/MO** button has no effect.

ADVANCED FEATURES

DISPLAY

In the Disc Function

Each time **DISPLAY** is pressed while a disc is playing, information about the disc appears in this sequence:

1. Title or Chapter number and Title elapsed time.
2. Title remaining time.
3. Chapter elapsed time.
4. Chapter remaining time.
5. Display is turned off.

In TV-VCR Function

Information about the TV and VCR status is displayed in this sequence:

1. Press **DISPLAY** once to view basic TV and VCR information that turns off after a few seconds. With this setting, the on-screen display information will always appear for three seconds when an operation button, numbered button or **CHANNEL ▲ / ▼** is pressed.
2. Press **DISPLAY** again. **Auto Enhance On** appears, and remains active until you press **DISPLAY** again. This may result in better video playback quality.
3. Press **DISPLAY** again to view basic TV-VCR information that turns off after a few seconds, but leaves the tape counter position displayed in the lower-right corner.
4. Press **DISPLAY** again to turn the display off.

GO TO

Press **GO TO** in the Disc function to jump to a specific Title, Chapter, Track or Time on your disc.

DVD Operation

1. Press **GO TO** once, and then use ◄ and ► to select Title or Chapter.
2. Use the **0-9** buttons to enter the desired Title or Chapter number, and then press **ENTER/SET**.
3. Press **GO TO** twice to jump to a specific time.
4. Use the 0-9 keys to enter the desired hours, minutes and seconds, and then press ENTER/SET.

CD Operation

1. Press **GO TO** to jump to a specific time.

2. Use the **0-9** keys to enter the desired minutes and seconds.

TITLE

When you play a DVD that contains several titles, you can select the title you want using the title menu.

1. Press **TITLE** to display the disc title menu (if available).

   Pressing **TITLE** may open the disc menu.
2. Use the arrow keys to select a title for playback.
3. Press **ENTER/SET** to start playback of the selected title.

ANGLE

Some DVDs contain scenes filmed from multiple angles. 🎥 appears during playback when additional angles are available.

1. Press **ANGLE** when 🎥 appears on screen during DVD playback.
2. Continue to press **ANGLE** to select among all available angles on the disc.

ZOOM

1. Press **ZOOM** once during DVD playback to display the scene at 1.5x normal size.
2. Press **ZOOM** twice for 2x normal size.
3. Press **ZOOM** three times to return to normal size.

SUBTITLE

Many DVDs contain subtitles in multiple languages.

1. Press **SUBTITLE** during DVD playback.
2. Continue to press **SUBTITLE** to select among all available subtitle languages.

AUDIO

Many DVDs contain multiple audio formats and languages.

1. Press **AUDIO** during DVD playback.

2. Continue to press **AUDIO** to select among all available audio formats.

REPEAT

This function is used to repeat a title, chapter, track, or entire disc.

1. Press **REPEAT** once to repeat the current chapter or track.

2. Press **REPEAT** twice to repeat the current title or disc.

3. Press **REPEAT** three times to turn off the Repeat feature.

PROGRAM PLAYBACK

Program Playback lets you play CD tracks in a custom order.

1. Press **PROGRAM** while a CD is in Stop mode.

   PROGRAM P00:00 appears on the screen.

2. Use the **0-9** buttons to enter the number of the first track you wish to play, and then press **ENTER/SET**.

   For example, to play track 8 first, press **08**, and then press **ENTER/SET**.

   The display will now show **PROGRAM P01:08**.

3. Repeat step 2 to enter all tracks in your custom playlist.

4. Press **PLAY** to begin playing your custom program list.

   The disc will play in the programmed order.

   If you press ◄◄ or ►►I you will only be able to skip to the tracks within your play list.

5. To cancel your program, press **STOP** twice.

SLEEP TIMER

The sleep timer will turn off the system automatically after a predetermined length of time.

1. Press **SLEEP** once to schedule the system to turn off in 15 minutes.

2. Press **SLEEP** repeatedly to extend the sleep timer to 30, 45, 60, 90 or 120 minutes.

   Press **SLEEP** until **OFF** appears to turn off the sleep timer.

3. The system will shut down when the time has elapsed.

MP3 PLAYBACK

Your system can play MP3 files burned onto CD-R or CD-RW discs.

1. Insert a CD-R/CD-RW disc with MP3 files into the DVD disc tray.

   After a brief delay, the MP3 NAV screen will appear.

   Folders appear on the left and tracks appear on the right.

2. Use the arrow keys to select the desired folder and press **ENTER/SET**.

3. Use the arrow keys to select the desired track and press **ENTER/SET**, or **PLAY**, to begin playback of the track.

4. To play the entire folder, press **REPEAT** until you select one of the following:

   REPEAT TRACK — Plays the selected track repeatedly.

   REPEAT FOLDER — Plays all tracks in the selected folder repeatedly.

   REPEAT ALL — Plays all tracks on the disc repeatedly.

   REPEAT OFF — Turns off repeat mode.

5. To end playback, press **STOP**.

PHOTO CD PLAYBACK

Photo CDs, including Kodak Picture CDs, contain JPEG images that you can view and manipulate on your television screen.

1. Insert a Kodak Picture CD into the DVD disc tray.

2. A slideshow of all images on the disc will begin playing automatically.

3. To exit the slideshow, press **STOP**.

Browsing Images During a Slideshow

To advance to the next or previous image manually, use ◄◄ or ►►I.

To advance to a particular image number, use the **0-9** buttons.

Manipulating Images During a Slideshow

To rotate a picture clockwise, press ►.

To rotate a picture counter-clockwise, press ◄.

To flip a picture vertically, press ▲.

To flip a picture horizontally, press ▼.

SEARCHING FOR INDEX MARKS

This Home Theater System is equipped with the Digital Program Search System (DPSS). Whenever you start recording, the VCR automatically marks the tape with an index signal. This signal is like a bookmark on your VHS tape that helps you easily find the start of any recording.

1. Insert a VHS tape with recorded material in the VCR deck.

2. While the tape is stopped or playing, press **DPSS+** or **DPSS-**.

3. The system will automatically search for the next or previous index mark and begin playing.

RETURN TO 0:00:00

The **ZERO** key automatically fast-forwards or rewinds your tape to counter position 0:00:00.

1. Insert a VHS tape with recorded material in the VCR deck.

2. While the tape is stopped or playing, press **ZERO**.

3. The system will automatically rewind or fast-forward the tape to counter position **0:00:00**.

NOTE: *You can press* **RETURN/CANCEL** *to set the tape counter to zero*(**0:00:00**).

ADJUSTING SPEAKER LEVELS

You can adjust the volume level of each satellite speaker and subwoofer individually.

1. Press **SPK LEVELS** repeatedly.

   Each press of the **SPK LEVELS** button will cycle through the speakers and display in the following order:

   FL (Front Left),

   CNTR (Center),

   FR (Front Right),

   SR (Surround Right),

   SL (Surround Left),

   SUB (Subwoofer),

   VOLUME (All).

2. Use ▲ and ▼ to adjust the dB (decibel) level of the selected speaker relative to the other speakers.

3. Continue in this manner until you have balanced the speaker levels ideally for your listening area.

SETTING EQ MODES

The EQ MODE feature offers five preset equalizer settings.

1. Press **EQ MODE** to view the current EQ setting.

2. Press **EQ MODE** repeatedly to select **STANDARD**, **CLASSIC**, **ROCK**, **POP**, **JAZZ** or **SPEECH**.

ADJUSTING BASS/TREBLE

1. Press **BASS/TREB** repeatedly to toggle between **BASS** and **TREBLE**.

2. Use ▲ and ▼ to adjust the bass and treble level from -10 to +10 dB.

CHANGING SURROUND MODES

The SURROUND feature allows you to toggle between the current surround mode (Dolby Digital, DTS or Pro Logic) and stereo sound.

Press **SURROUND** repeatedly to toggle between surround sound and stereo sound.

- In TV and VCR mode, the surround sound will change between Dolby Pro Logic and stereo sound.

- In Disc mode, the suround sound will change between Dolby Digital/DTS and stereo sound with subwoofer.

TROUBLESHOOTING

Problem	Solution
No power	• Make sure the AC power cord is securely connected.
No picture	• Securely connect video cable. • Repair or replace damaged video cable. • Make sure the system is connected to the correct TV input. • Make sure the video input on the TV is set to view the system.
Picture noise	• Make sure the disc is not dirty or flawed.
DVD picture does not fill screen on standard television.	• The aspect ratio of the disc is fixed on your DVD.
Left/Right sounds unbalanced or reversed.	• Make sure speakers and components are correctly and securely connected. • Adjust balance of speaker levels.
Echo during audio playback	• Turn the volume down on your TV and use the Home Theater sound system. • Do not use the TV sound system and the Home Theater sound system at the same time.
No sound	• Securely connect all audio cables. • Repair or replace any damaged audio or speaker cables. • Press **MUTE** button on remote control if mute is displayed on the TV screen. • The system is in Pause, Slow Motion, Forward/Reverse Scan. Press **PLAY** on the remote control to return to normal playback mode. • Check speaker levels.
Severe hum or noise	• Make sure speakers and components are correctly and securely connected. • Make sure connecting cables are away from a transformer or motor, and at least 10 feet away from a TV or fluorescent light. • Move your TV away from your audio components. • The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol. • Clean the disc.
No surround effect during playback of Dolby Digital soundtrack	• Check speaker connections and settings. • Depending on the DVD, the output signal may not use all 5.1 channels, but rather output monaural or stereo sound, even if the soundtrack is recorded in Dolby Digital format.
Cannot tune in radio stations	• Make sure antennas are securely connected. Adjust the antennas and connect an external antenna if necessary. • The signal strength of the stations is too weak (when tuning in with automatic tuning). Use manual tuning. • No stations have been preset or the preset stations have been cleared. Program stations as presets.
Remote does not function	• Remove any obstacles between the remote and the system. • Move closer to the system when operating the remote. • Point the remote directly at the sensor on front panel of the system. • Replace the batteries.
Disc does not play	• Make sure there is a disc in the tray. • Turn the disc over. Make sure the playback side is facing down on the disc tray. • The disc is skewed or warped. • The region code on the DVD does not match the system. • Moisture has condensed inside the system. Remove the disc and leave the system turned on for about half an hour.
Disc does not start playing from the beginning	• Program Play or Repeat Play is selected. Cancel these functions before playing a disc. • Resume Play is active. Press **STOP** twice and then restart DVD playback.
Disc plays automatically	• The DVD features an auto playback function.
OSD comes on unexpectedly while watching TV	• Make sure the OSD is in off mode by pressing **DISPLAY** repeatedly.

SPECIFICATIONS

DVD PLAYER

System ....NTSC

Video Output ....Output connector: audio/video jack; Output level: 1 Vp-p (75ohm).

S-Video Output ....Y output level: 1 Vp-p (75ohm)

Component Video Output ....0.3 Vp-p (75ohm); 75% color

S/N Ratio ....DVD: 60dB; CD: 60dB

Audio Signal Frequency Characteristics

For DVD linear PCM playback: ....20Hz to 20kHz (48kHz sampling)/20Hz to 20kHz (96kHzsampling)

For CD playback: ....20Hz to 20kHz

Dynamic Range

DVD linear PCM .... 85dB, (2kHz, -60dBFS)

CD 85dB

Overall Harmonic Distortion Ratio ....CD: 0.2% or less

VCR PLAYER

Format ....VHS NTSC standard

Number of Video Heads 4

Video Signal Standard .... NTSC color system

Tape Width .... 12.7mm (1/2 inch)

Tape Speed ....SP: 33.35mm/sec (1.31 i.p.s); LP (playback only): 16.67mm/sec (0.66 i.p.s); EP:11.12 mm/sec (0.44 i.p.s)

Channel Coverage ....VHF 2-13, UHF 14-69, CATV 1-125

Antenna Input 75ohm

Video Input .... 0.5 to 2.0 Vp-p; 75ohm unbalanced

Video Output .... 1.0 Vp-p; 75ohm unbalanced

Audio Input .... -8dBs, 47kOhm unbalanced (0 dBs = 0.775 Vrms)

Audio Output .... -8 dBs, 1kOhm unbalanced (0 dBs = 0.775 Vrms)

Memory Backup.. 5 seconds

OTHER

Operating temperature ....32ºF to 109.4ºF (0ºC to 43ºC)

Power supply .... 120V , 60Hz (Standby, 7W)

Unit Dimensions ....18.3"(W) X 3.8"(H) X 15.8"(D); 465mm(W) X 95.9mm(H) x 400mm(D)

Subwoofer Dimensions ....8.7"(W) X 14.2"(H) X 13.5"(D); 220mm(W) X 360mm(H) x343mm(D)

Satellite Speakers Dimensions ....3.5"(W) X 5.9"(H) X 4.2"(D); 90mm(W) X 150mm(H) x 107mm(D)

Weight .... 17 lbs. (7.71 kg)

Power output .... Subwoofer: 50W; Satellite: 5x50W

Total Harmonic Distortion .... <10% (with speakers at full power)

Frequency Response .... Subwoofer: 45Hz~150Hz, ±4dB; Satellite: 150Hz~20kHz, ±4dB

*Specifications subject to change without notice

CARE

Keep the Home Theater System dry; if it gets wet, wipe it dry immediately. Use and store the Home Theater System only in normal temperature environments. Handle the Home Theater System carefully; do not drop it. Keep the Home Theater System away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Caution: You might permanently damage your speakers by cleaning them with a vacuum cleaner. Use a feather duster or a soft loose cloth instead.

NOTES ABOUT DISCS

Handling Discs

To keep the disc clean, handle the disc by its edge. Do not touch the surface.

Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.

After playing, store the disc in its case.

On Cleaning Discs

Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.

Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.

NOTES ABOUT VIDEOCASSETTES

Cassette Tape Requirements

This video cassette recorder (VCR) uses **ONLY** cassette tapes, NTSC video signals and 120 VAC, 60 Hz (standard household current).

Cassette Erase Protection

A cassette has a removable tab to prevent accidental erasure of recorded material. Removing the tab prevents recording.

To record on a video cassette with the tab removed, place adhesive tape over the tab opening.

SERVICE AND REPAIR

If your Home Theater System is not performing as it should, take it to your local RadioShack store for assistance. To locate your nearest RadioShack, use the store locator feature on RadioShack's website (www.radioshack.com), or call 1-800-The Shack (843-7422) and follow the menu options. Modifying or tampering with the Home Theater System's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it.