

USER'S GUIDE

RV-9968

RV-9978

REDA



AUDIO/VIDEO RECEIVER

FEDERAL COMMUNICATIONS COMMISSION (FCC) INFORMATION

This device generates and uses radio frequency (RF) energy, and if not installed and used properly, this equipment may cause interference to radio and television reception.

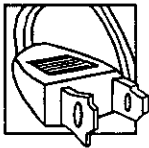
This equipment has been type tested and found to comply with the specifications in Subpart J of Part 15 of FCC Rules. These rules are designed to provide reasonable protection against radio and television interference in a residential installation. However, there is no guarantee that interference will not occur in particular installations.

If this equipment does cause interference to radio or television reception (which you can determine by turning the equipment off and on), try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna (that is, the antenna for the radio or television that is "receiving" the interference).
- Move the unit away from the equipment that is receiving interference.
- Plug the unit into a different wall outlet so that the unit and the equipment receiving interference are on different branch circuits.

If these measures do not eliminate the interference, please consult your dealer or an experienced radio/television technician for additional suggestions.

Also, the Federal Communications Commission has prepared a helpful booklet, "How To Identify and Resolve Radio TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Please specify stock number 004-000-00345-4 when ordering copies.



FOR YOUR SAFETY

The AC power plug is polarized (one blade is wider than the other) and only fits into AC power outlets one way. If the plug won't go into the outlet completely, turn the plug over and try to insert it the other way. If it still won't fit, contact a qualified electrician to change the outlet, or use a different one. **Do not attempt to bypass this safety feature.**

FOR YOUR RECORDS

In the event that service should be required, you may need both the model number and the serial number. In the space below, record the date and place of purchase, and the serial number:

Model No. RV-9968/RV-9978

Remote Control No. CRK67G

Date of Purchase _____

Place of Purchase _____

Serial No. _____

SERVICE INFORMATION

This product should be serviced only by those specially trained in appropriate servicing techniques. For instructions on how to obtain service, refer to the warranty included in this Guide.

WARNING: TO PREVENT FIRE OR ELECTRICAL SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

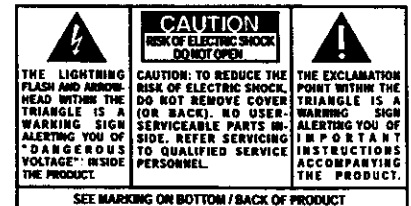


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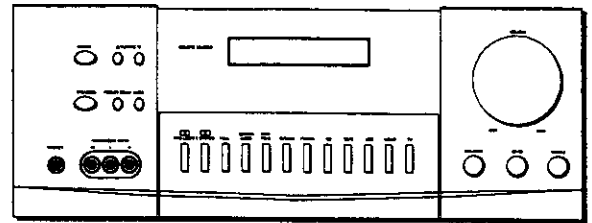
- CANADIAN SERVICE 28**

FIRST THINGS FIRST

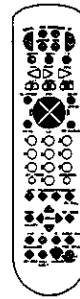
UNPACK THE RECEIVER

Unpack the receiver and locate all the accessories. You should have:

- one receiver unit;
- one RCA Universal Remote Control (CRK67G);
- two packs - one pair each - of AAA batteries;
- one audio cable (two wires) with red and white RCA connectors;
- one video cable (single wire) with yellow RCA connectors;
- one external, detachable FM T-type antenna;
- one external AM loop antenna;
- one instruction book;
- one owner registration/survey card;
- and one safety leaflet.



central unit



remote



video cable



audio cable



AM loop



FM T-type antenna

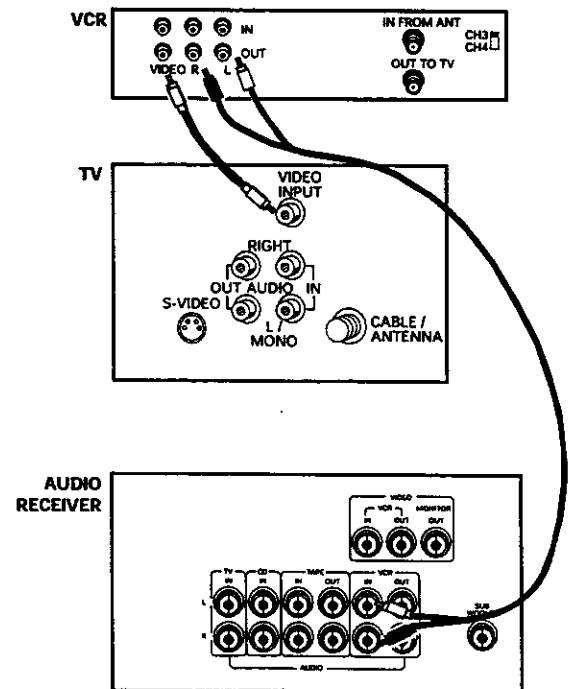
BASIC CONNECTIONS

Assuming you have a VCR, the following steps will help you quickly set up your new receiver. If you have more electronic components, consult the table of contents or index for the page on which to find the connection description that best suits your situation.

*The wires and jacks have been color-coded to assist you.

1. Using an audio wire with red and white connectors, connect the audio "OUT" jack on the back of your stereo VCR to the audio "IN" jack under the VCR heading on the back of the receiver.
2. Using the video cable with yellow connectors, connect the video "OUT" jack on the back of your VCR to the "VIDEO IN" or "VIDEO INPUT" on the back of your TV. If there are multiple video jacks on the back of your TV, use "VIDEO 1."

NOTE: If your TV has more than one video input, make sure the VCR and VIDEO buttons tune the TV to the same channel that the receiver monitor out is plugged into. Refer to the TV's user's guide for more information.



FIRST THINGS FIRST

CONNECTING, PLACING & BALANCING THE SPEAKERS

CONNECTING THE WIRES

Each speaker - the two main, two surround and one central - has a designated set of terminals on the back panel of the central unit.

Uncoil the speaker wires and locate the bare ends. Press and hold down on the tab to open the red terminal, then insert the red (+) wire. Release hold to close tab. Use the same procedure for black (-) wire into black terminal.

WARNING: Be sure to follow these instructions carefully. The system can be damaged if speakers are improperly connected.

SETTING UP FOR SURROUND SOUND

THE MAIN SPEAKERS

The two main speakers should be set between six and 10 feet apart. Putting the speakers any closer or any farther apart may result in distorted sound.

The speakers should also form a 45 degree angle to the central listening point in the room, creating a triangle of listening enjoyment.

NOTE: You may need to place the main speakers closer together when not utilizing the center speaker. Do not place them so close, however, that their magnetic fields affect the TV's reception.

THE CENTER SPEAKER

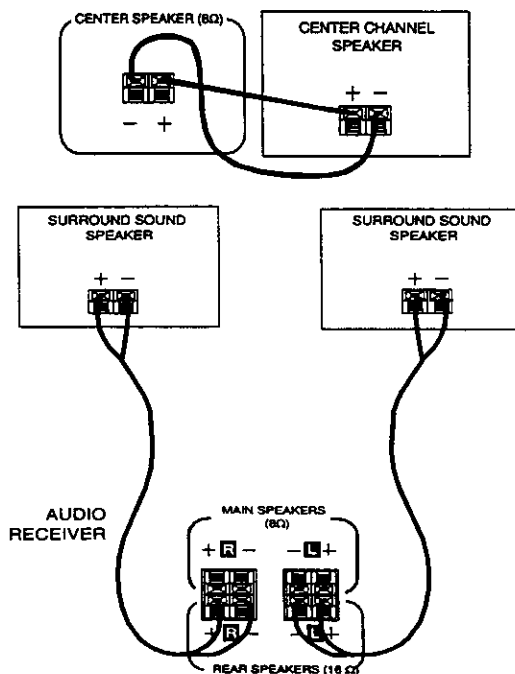
For optimal performance, you should try to place the center speaker as close as possible to the same height as the left and right main speakers. You should also try to align all three speakers, or set the center speaker slightly behind the left and right mains. However, you should never place the center speaker forward of the left and right mains, as this will distort the sound for those listeners not seated in the center of the room.

THE SURROUND SPEAKERS

Placement of the surround speakers for optimal performance is truly subject to the size and type of room in which the system is to be placed.

The following are a few position suggestions.

1. Set the speakers on the side walls, facing each other, approximately two to three feet above the listeners head.



FIRST THINGS FIRST

2. Aim the speakers directly at the two main speakers, matching height to height. If the room is sparsely decorated, it may be necessary to slightly tilt the speakers down to increase sound quality. If the room is densely decorated, it may be necessary to face the speakers toward the rear wall or at the ceiling.
3. Mount the speakers up on the ceiling. Set them a few feet wide of the listeners and make sure they are facing one another, not the floor.

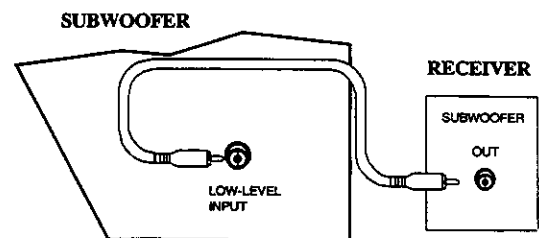
Obviously there are many more possible positions, so it may be necessary to simply experiment to find the right balance for your situation.

SUBWOOFER


Before you begin, make sure that the subwoofer is turned off and unplugged.

Connect your A/V receiver to the subwoofer as shown.

NOTE: A receiver with a single output should be connected to the input labeled LOW-LEVEL INPUT.



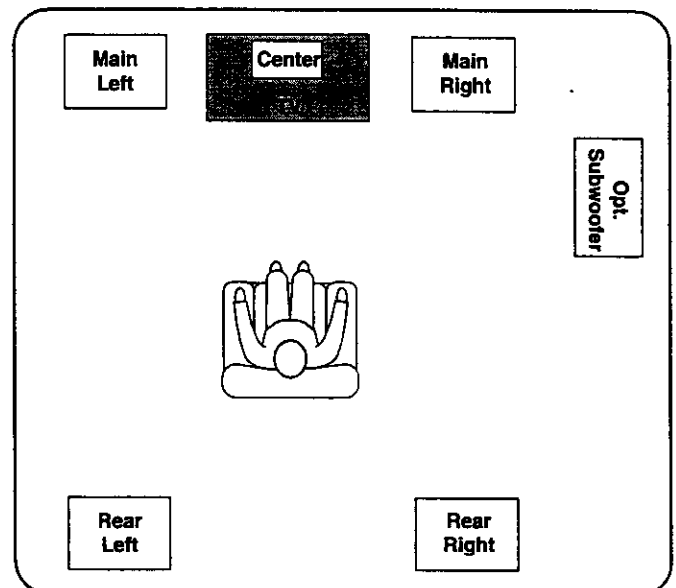
BALANCING YOUR SPEAKERS

Your system is equipped with , which enables you to reproduce sound effects as they were intended. But to do so, the speakers must be correctly balanced.

To balance the speakers using the Test Tone, all speakers must be connected to your receiver. Your receiver must be in the Dolby Pro Logic Surround Mode.

1. Press the TEST TONE button on the receiver front panel. The receiver generates a "pink noise" and applies it automatically at two-second intervals to the left main channel, center channel, right main channel and left and right rear channels (simultaneously), in that order.
2. As the pink noise is generated, go to the spot in the room where you are most likely to be when listening to your system. The rear surround and center speakers should be adjusted to equal the level of output from the left and right main speakers.
3. Make adjustments by pressing the REAR•CTR button, and then the +/- button on your remote control. The output from the selected speaker(s) is adjusted accordingly.

A SAMPLE SET UP FOR SURROUND SOUND ENJOYMENT



*  Manufactured under license from Dolby Laboratories Licensing Corporation. Dolby, the double-D symbol (DD) and Pro Logic are trademarks of Dolby Laboratories Licensing Corporation.

FIRST THINGS FIRST

Each time you press the + or - button on your remote control to adjust a channel, the receiver provides you with two more seconds of pink noise to that channel before moving on to the next.

4. Press the TEST TONE button again to end the test.

You may not need to check or adjust these levels again unless you move your system, rearrange the speakers, or change your preferred seating location in the room.

CONNECTING THE ANTENNAS

The AM and FM antennas connect to the AM and FM terminals on the system's back panel. They must be hooked up for you to receive clear reception.

Uncoil the antenna wires and locate the bare ends. Press down on the tab to open the terminal and insert the wire. Snap the tab closed.

After connecting the antennas, extend them to their full length and adjust their positioning for better reception.

CONNECTING FOR POWER

Make sure you connect all your other electronic components and your 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.

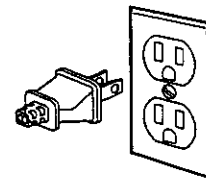
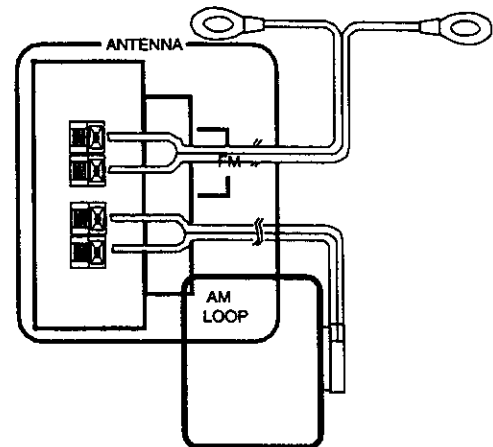
USING HEADPHONES

To listen privately through your audio system, use the PHONES jack to the right of the volume dial on the receiver.

NOTE: Headphones are not included.

Sit Back and Listen ...

Fine tuning is best performed with the remote control so that adjustments can be made from the viewing or listening area.

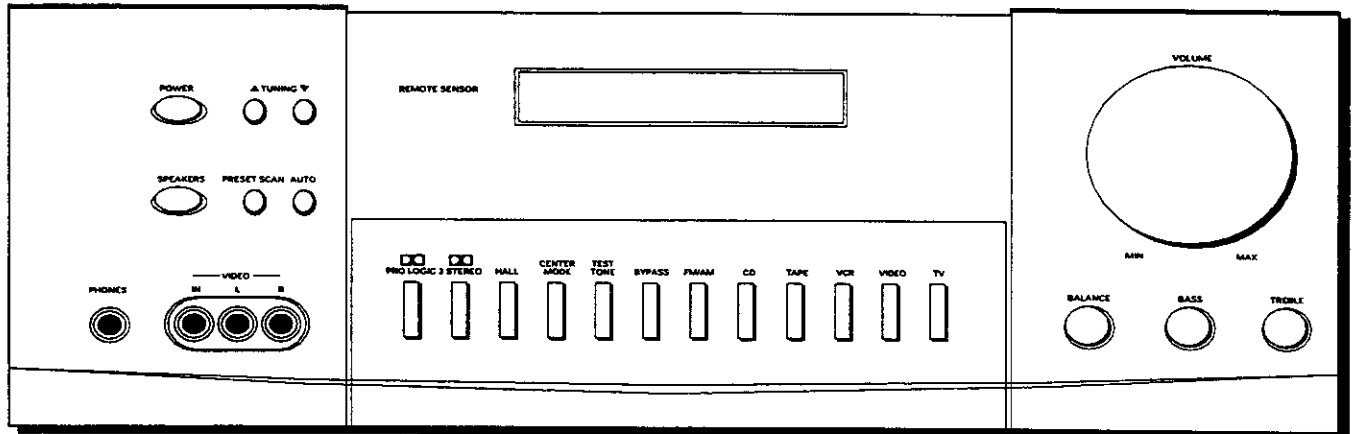


Have a blast - Just not in your ears!

Make sure you turn down the volume before you put on the headphones. Increase the volume to the desired level after headphones are in place.



RECEIVER CONTROLS & OPERATIONS



GENERAL CONTROLS

POWER STAND BY/ON

The POWER STANDBY/ON button activates or deactivates the system. When the system is activated, the unit will default to the last mode it was in before power was removed.

TUNING DOWN/UP

The TUNING DOWN/UP buttons allow you to scan the active frequency for the radio station of your choice.

SPEAKERS

The SPEAKERS button allows to activate/deactivate your speakers, giving you more control over the customizing of your listening.

PRESET SCAN

The PRESET SCAN button allows you easy access for up to 30 preset radio stations.

AUTO

The AUTO button allows you to select auto or manual tuning.

BALANCE

The BALANCE dial allows you to manually adjust the balance of sound coming from your speakers.

BASS

The BASS dial allows you to manually adjust the amount of bass the unit emits.

TREBLE

The TREBLE dial allows you to manually adjust the amount of treble the unit emits.

FUNCTION BUTTONS

The function buttons include CD, TAPE, FM/AM, TV, VCR, VIDEO.

TEST TONE

The TEST TONE button can only be used in the Dolby Pro Logic mode. This feature allows you to balance your speakers as they emit a sound, called a "pink noise," in the left, center, right and surround channels sequentially for two seconds each.

NOTE: This process is explained more in-depth in "Balancing Your Speakers," page 4.

CENTER MODE

The CENTER MODE button allows you to select the Normal, Phantom or Wide mode. These modes are only available when Dolby Pro Logic or Dolby 3 Stereo are activate.

NORMAL

The Normal mode can be activated in both Pro Logic and 3 Stereo. This mode takes the low bass frequencies from the center channel and distributes them to the left and right main speakers to maintain the program's original integrity.

PHANTOM

The Phantom mode can only be reached while the Pro Logic mode is active. It uses the two main speakers and the two surround speakers. The center speaker is off and the sound that usually comes from it is distributed through the left and right main speakers.

RECEIVER CONTROLS & OPERATIONS

WIDE

The WIDE mode can be activated in both the Pro Logic and the 3 Stereo modes. This mode utilizes just the three front speakers - left main, right main and center - with all audio delivered through the center speaker. The center speaker will reproduce the same bass levels as the left and right main speakers.

SURROUND MODE

Included in the SURROUND MODE category are Dolby Pro Logic, Dolby 3 Stereo, Hall and Bypass.

DOLBY PRO LOGIC

The Pro Logic mode uses all five speakers so the sound envelopes the room.

DOLBY 3 STEREO

The 3 Stereo mode uses the two main and one center speaker.

HALL

The Hall mode recreates the effect of listening to a concert or watching a play from inside a music hall. It utilizes the main and surround speakers.

BYPASS

The Bypass mode utilizes just the main speakers.

MASTER VOLUME

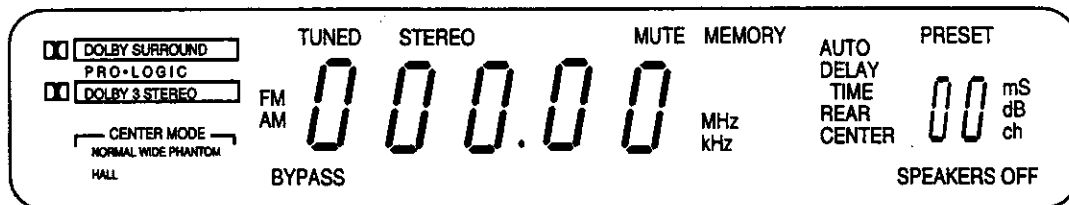
The Master Volume dial allows you to adjust the level of audio output.

PHONES

The receiver has been equipped with a Phones jack. Plug your headphones - not included - into the jack and listen to your favorite media in private.

DISPLAY MESSAGES

The following is an example of all the display messages you may encounter while using your receiver. Specific messages are referenced within the section(s) they apply.



TUNING THE RECEIVER

1. Push the FM/AM button on the receiver (or the AM•FM button on the remote) to activate the tuner.
2. Press the FM/AM button on the receiver (or the AM•FM button on the remote) again to select the FM or AM band.

TUNING

Press the FF on your remote button to move up the AM or FM band.

Press the REW button on your remote to move down the AM or FM band.

AUTO TUNING

Use the AUTO feature to automatically search for stations of sufficient strength.

Press AUTO on your receiver (or the INPUT•SEEK button on your remote) to put the receiver into AUTO mode. "AUTO" appears in the display. Press TUNING up or down button on the receiver to search. The tuner finds and stops on the next station whose frequency is strong enough to be received. To continue the search, press TUNING up or down button again.

STORING STATIONS IN MEMORY

You can store up to 30 AM and FM stations. These stations can be stored in random order.

RECEIVER CONTROLS & OPERATIONS

TO STORE A STATION

1. Press the FM/AM button on the receiver (or the AM•FM button on the remote) to turn on the receiver.
2. Select the band—FM or AM.
3. Select the station you want to store in memory using the methods described above.
4. Press the MENU-SELECT button on the remote. "MEMORY" blinks in the display. While "MEMORY" is blinking, press number buttons on the remote for the station.
For stations 1, 2 or 3 press 0, then press 1, 2, or 3.
For stations 4 through 30, press the numbers directly.

If the Memory indicator on the display turns off before you preset your station selection, press MENU-SELECT again.

If the receiver is disconnected from its power source, the preset stations are maintained in memory for up to 7 days.

TO PLAY A PRESET STATION

Press the appropriate Preset Stations number. For stations 1, 2 or 3 press 0, then press 1, 2, or 3. For stations 4 through 30, press the numbers directly.

Or, press CH + on your remote to tune to the next preset station or CH - to tune to the previous preset station.

PRESET SCANNING

Use the PRESET SCAN button on the receiver's front panel to review the preset stations stored in the tuner's memory. "PRESET" and the station's location in memory appear in the display. The tuner automatically scans all preset stations in order, pausing at each one for approximately 5 seconds.

When the tuner reaches the station you want, press PRESET SCAN to stop the scanning. If the scan is not interrupted, the tuner reviews all preset stations in order, stopping at the point where the scan began.

USING SWAP AUDIO

Swap audio lets you change the sound from the large picture to the small picture when you are watching TV and using picture-in-picture (PIP) with an external video source.

TO USE SWAP AUDIO

When you are watching TV and turn on PIP, you can turn on another video source and swap the sound from the large picture coming from the TV to the small picture coming from the other video source.

1. Press TV on the remote to turn on the TV and put the receiver in TV mode.
2. Press the PIP button. The empty PIP appears on the screen.
3. Activate a video source for the PIP. The picture from the video source appears in the PIP.
4. Press TV.
5. Change to the TV channel you want to watch on the large screen.
6. Press SWAP AUDIO to swap the sound between the large picture and the small picture.
7. To swap the video between the large picture and the small picture, use the SWAP PIP button on the remote.

If you swap the TV picture to the PIP and the other video source to the large picture, you may not be able to swap the audio.

TO CHANGE THE VIDEO SOURCE AND SWAP THE AUDIO

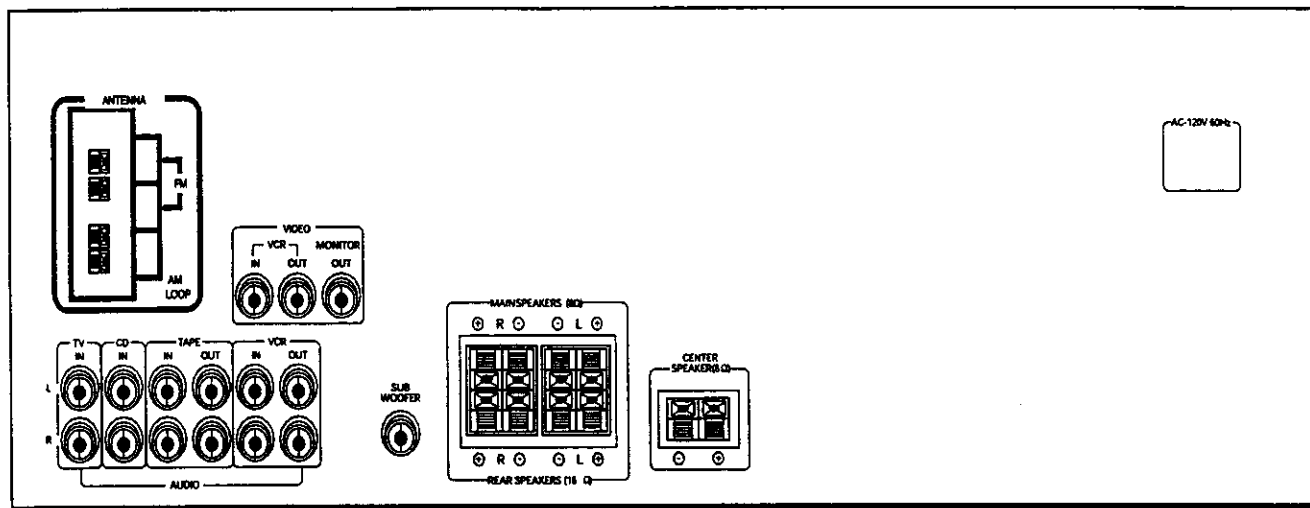
If you want to change the video source for the PIP and want to be able to use SWAP AUDIO:

1. Turn off PIP.
2. Change the video source to another video component connected to the receiver.
3. Press TV to watch the TV.
4. Press PIP. The video source appears in the PIP. The video from the TV appears in the large picture.
5. Press SWAP AUDIO to swap the audio as you want.

The Swap Audio feature may not work with all TV brands with the PIP feature.

If your TV has a PIP feature, see the TV's user's guide for instructions for using it.

CONNECTING AUXILIARY COMPONENTS



BEFORE YOU CONNECT...

- Protect components from power surges.
- Connect all components before plugging any power cords into the wall outlet.
- Always turn off the receiver and/or components before you connect or disconnect any cables.
- Always make sure the color-coded plugs match the color of the terminals in which they are inserted. The connection cable plugs and jacks are color-coded as follows:

Speaker Terminals Red for positive (+) terminals. Black for negative (-) terminals.

RCA Phono Type Terminals Red for the right (R) channel. White for the left (L) channel. Yellow for the video (V). Black for the subwoofer. (Not included)

- Some units may be supplied with connection plugs that are color coded red and black instead of red and white. In this case, the black plug takes the place of the white plug.
- Contact Consumer Relations if you have questions concerning the connections or components.

POSITION CABLES CORRECTLY TO AVOID AUDIO HUM OR INTERFERENCE

- Insert all cable plugs firmly into their jacks.
- Place audio/video cables to the sides of the receiver's back panel instead of straight down the middle after you connect the components.
- Try not to coil any power cables and keep them away from the audio/video cables as much as possible.
- Make sure all antennas and cables are properly grounded. Refer to the Safety Tips sheet packed with your receiver.

PROTECT YOUR COMPONENTS FROM OVER-HEATING

- Do not block ventilation holes in any component. Arrange the components so that air can circulate freely.
- Do not stack components directly on top of each other.
- Allow adequate ventilation when placing your components in a stand.
- Place an amplifier near the top shelf of the stand so heating air rising from it will not flow around other components. If you have a satellite receiver, you should place it on the top shelf.

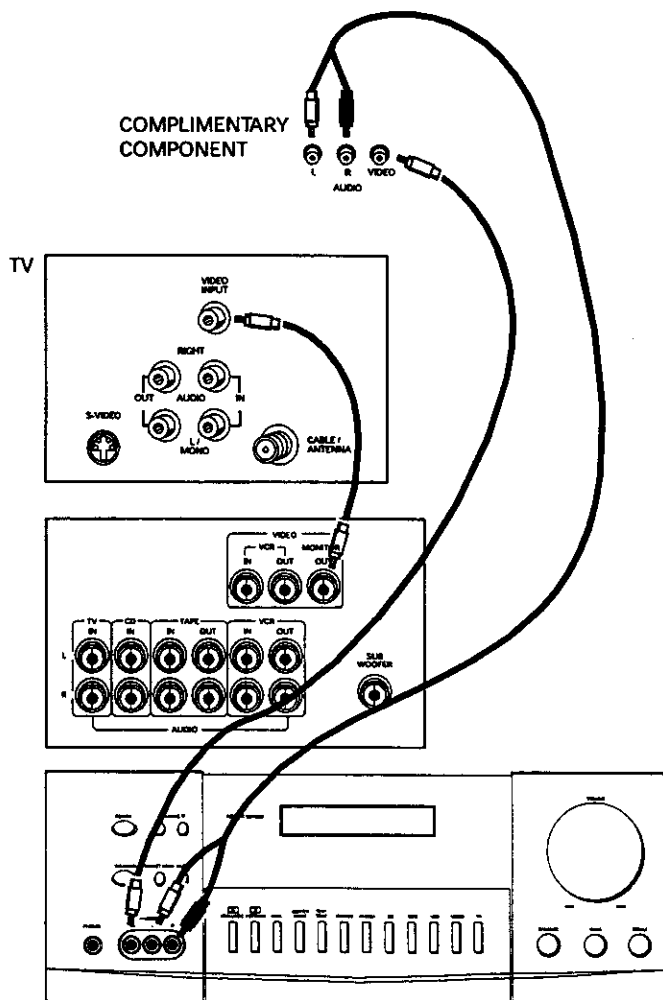
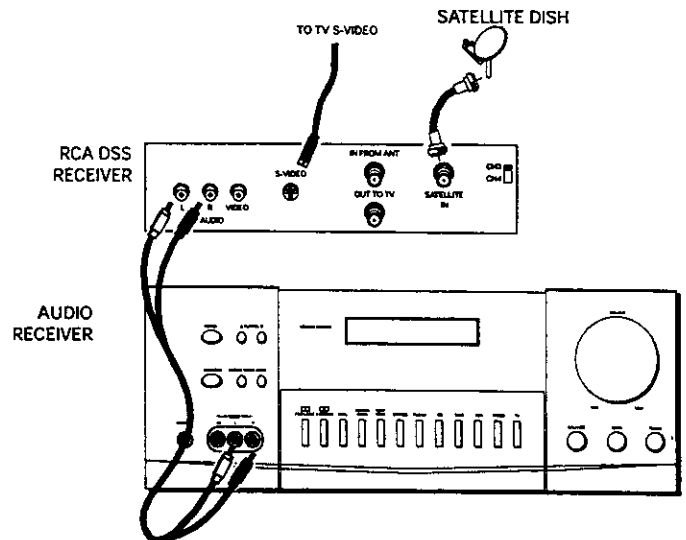
CONNECTING AUXILIARY COMPONENTS

CONNECTING A SATELLITE RECEIVER

Using a paired (red/white) stereo cable, a single (yellow) video cable and two coaxial cables, connect your new audio receiver to your satellite receiver as shown to the right.

To watch TV programs in stereo after connection, press TV and tune to the desired channel. To watch satellite programming, press SAT•CABLE and tune to the desired channel.

NOTE: Do not stack electronic components or other objects on top of the satellite receiver. The slots on top of the receiver must be left uncovered to allow proper airflow to the unit. Blocking the airflow to the unit could impair performance or damage your receiver and other components. Also, do not stack the satellite receiver on top of a "hot component," such as an audio power amplifier.



CONNECTING COMPLIMENTARY COMPONENTS

You can connect a laserdisc player, second VCR or camcorder/video recorder to the VIDEO connection.

Using a paired (red/white) stereo cable and two single (yellow) video cables, connect your new audio receiver to the complimentary component as shown to the right.

To play laserdiscs or videos, press the LD•VCR2 and then play.

NOTES: When using this connection for a second VCR, the recording option is not available.

If your camcorder or video camera does not have an RCA-type terminal for audio/video, you can purchase an adapter from an RCA dealer or electronic parts store.

If the video connection is being used when you try to hook up your video recorder or camcorder, connect the component through any other available video output.

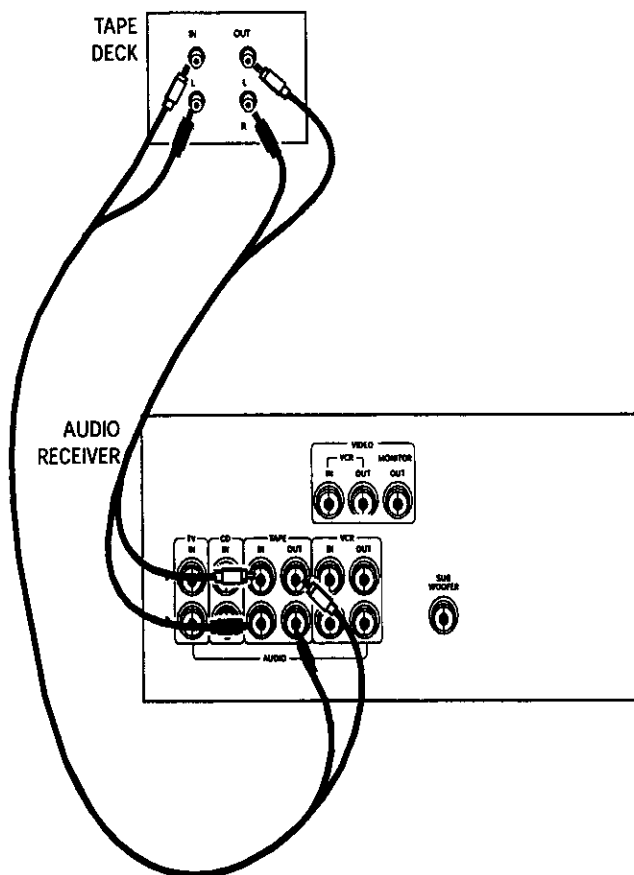
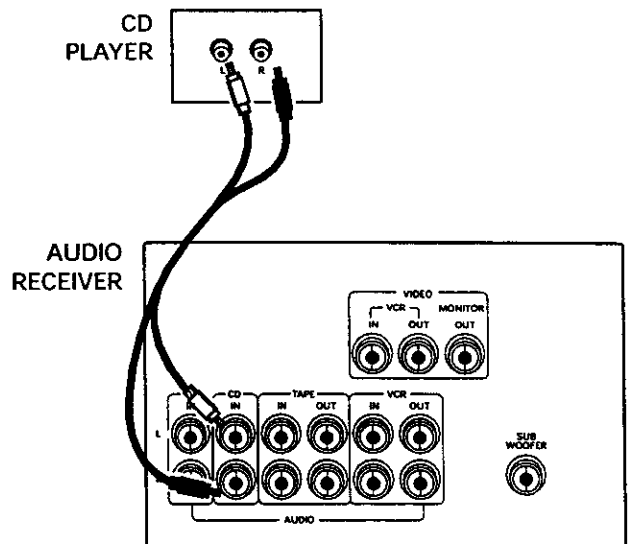
CONNECTING AUXILIARY COMPONENTS

CONNECTING A COMPACT DISC PLAYER

Using one paired (red/white) stereo cable, connect your new receiver to your compact disc player as shown to the right.

To play a CD, press CD, put the receiver in CD mode and press PLAY.

NOTE: The AUDIO SOURCE connection can be used as input for any stereo audio signal.



CONNECTING A TAPE DECK

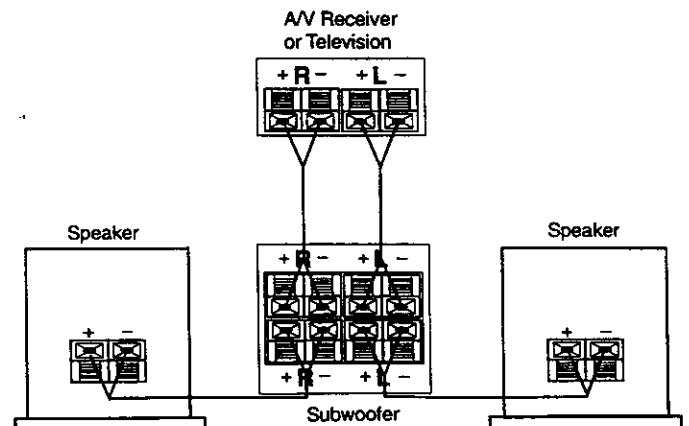
Using two paired (red/white) stereo cables, connect your new receiver to your tape deck as shown in the diagram to the right.

To play a tape, press TAPE and then PLAY. To record a tape, turn on the audio source you want to record from and then press RECORD on the tape player.

CONNECTING A PASSIVE SUBWOOFER

Should you choose to use a passive subwoofer, the hook up is slightly different from that of a powered one.

If necessary, remove the vinyl covering from the ends of the wires and twist the wire. Press down and hold the tab on the back of the speaker. Insert the wire in the hole, matching (+) to (+) and (-) to (-). Release the tab and pull the wire gently to make sure it is securely connected



CONNECTING AUXILIARY COMPONENTS

THE ULTIMATE CONNECTION

Should you choose to utilize your new receiver to its fullest potential by running all your audio components through it, you will need purchase additional connectors. How many and what kind is purely situational.

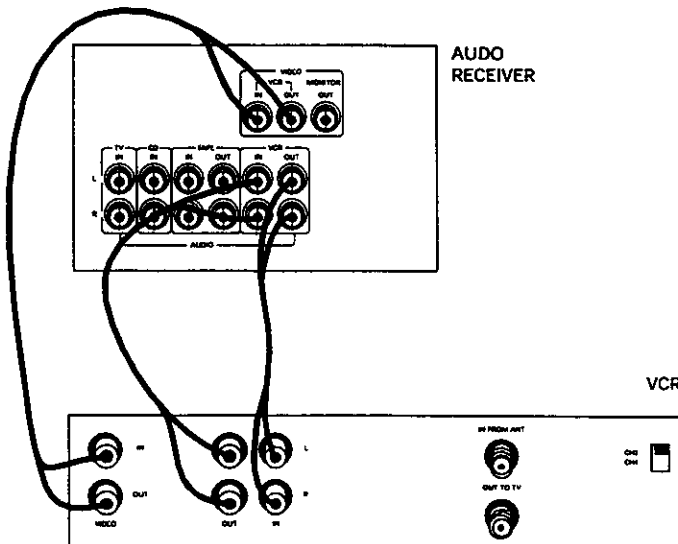
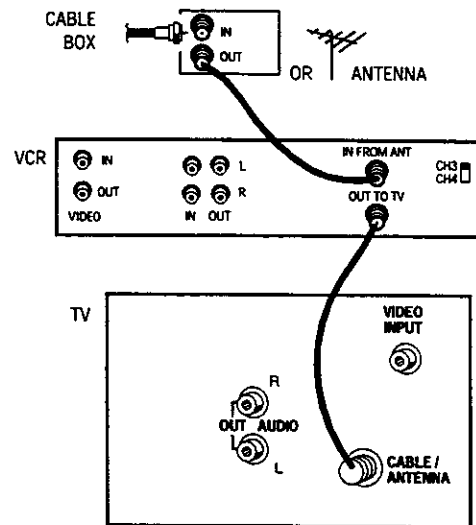
The following is a complete description of all the jacks on the back of the receiver and how they can be utilized to provide greater enjoyment. Remember when connecting audio and video cables that, in addition to being color-coded for connection accuracy, RIGHT jacks always connect to RIGHT jacks and LEFT to LEFT, but IN jacks connect to OUT jacks and OUT jacks connect to IN.

NOTE: Please be advised the jacks are given generalized names and locations. Your TV/VCR/cable box/satellite receiver/ etc. might have a different configuration of jacks with different names. The diagrams below are outlined in the simplest possible detail.

STEP 1: CONNECTING YOUR SATELLITE/CABLE RECEIVER

Connect the "OUT" jack on your cable/satellite receiver box to the "IN FROM ANTENNA" jack on the back of your VCR.

Then connect the "OUT to TV" jack on the back of your VCR to the "CABLE/ANTENNA" jack on the back of your TV.



STEP 2: CONNECTING YOUR VCR TO THE RECEIVER

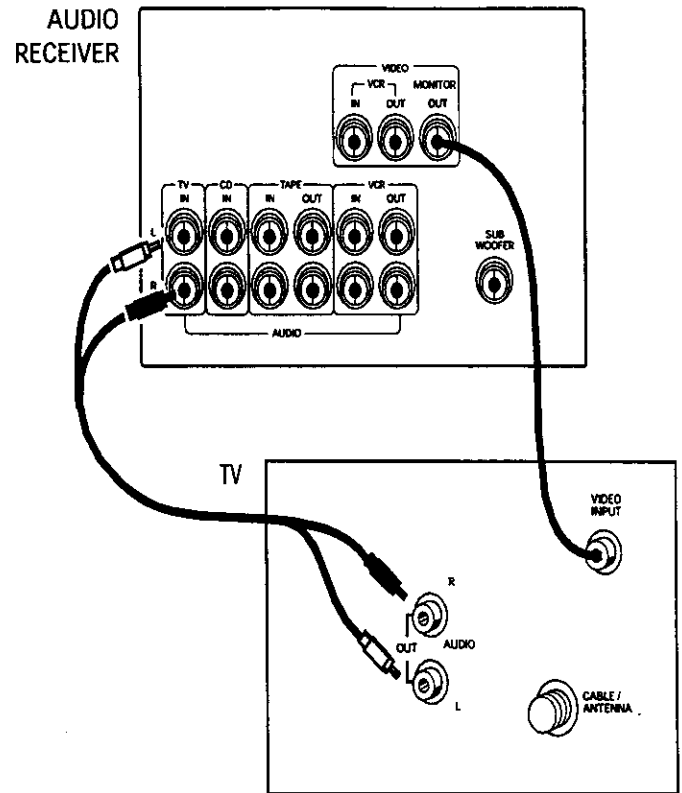
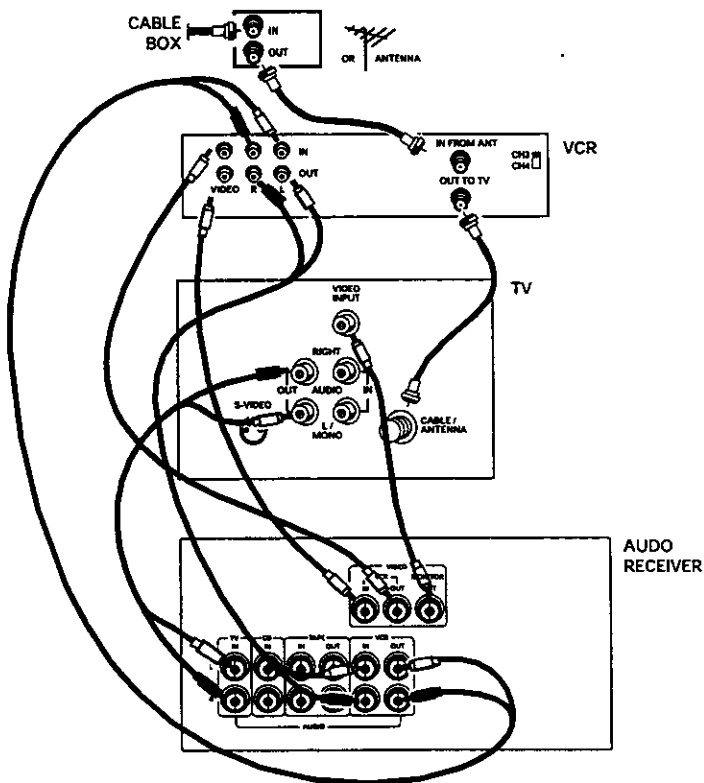
Using video cables, connect the video VCR "IN" and "OUT" jacks on the back of your receiver to the "OUT" and "IN" video jacks on the back of your VCR.

Using audio cables, connect the right and left "IN" and "OUT" audio VCR jacks on the back of your receiver to the right and left "IN" and "OUT" jacks on the back of your VCR.

CONNECTING AUXILIARY COMPONENTS

STEP 3: CONNECTING YOUR RECEIVER TO YOUR TV

Using audio cables, connect the left and right "OUT" audio jacks on the back of your TV to the TV audio jacks on the back of your receiver.



WHEN YOU'RE ALL CONNECTED....

When you're all finished connecting your basic components together, you'll have quite a mess of wires back there.

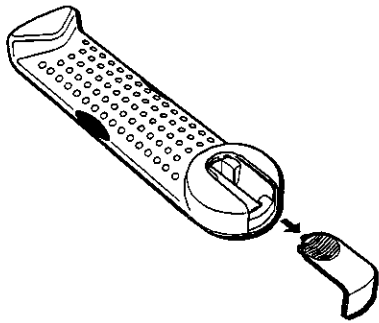
Add to this a tape deck, laserdisc player and second VCR and you can imagine the confusion. Just be patient and follow each component's user's guide and you'll be rewarded with excellent audio and hours of top quality entertainment.

USING THE UNIVERSAL REMOTE CONTROL

BATTERY INSTALLATION

The remote control operates on four batteries, included with your system. Install them before attempting to operate the remote.

1. Slide the battery compartment cover off the back of the remote.
2. Insert 4 AAA batteries, matching the + and - ends of each battery with the symbols in the compartment.
3. Replace the cover.



BASIC CONTROLS

Your remote control is capable of operating most RCA audio and video equipment. To use the remote control effectively, always aim it directly at your receiver.

POWER Turns the AM/FM receiver off with two presses. If you have multiple components turned on and not the AM/FM receiver, pressing POWER once turns off the last component turned on. Pressing POWER again quickly turns off all other components.

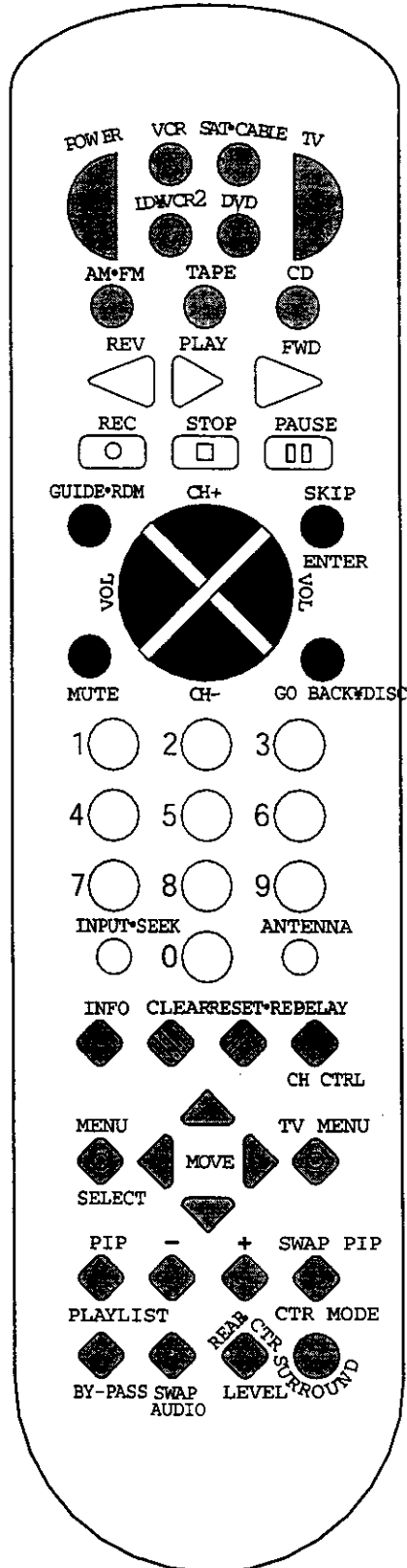
VOL UP and DOWN Increases or decreases the volume.

MUTE Turns off the receiver's sound. Press again to restore the sound.

RECEIVER CONTROLS

AM•FM Activates the tuner and toggles between the AM band and the FM band.

CTR MODE Changes the Center mode when using Dolby Pro Logic Surround or Dolby 3 Stereo surround modes. Press once and the current mode appears. Press again to change the mode.



USING THE UNIVERSAL REMOTE CONTROL

DELAY/CH CTRL Selects the amount of Surround Sound delay between the main and rear speakers. Choose from 15, 20 or 30 milliseconds. Press once and the current setting appears. Press again to change the setting.

SURROUND Lets you select a Surround Mode: Dolby Pro Logic Surround, Dolby 3 Stereo or Hall. Press once to turn on the surround mode last selected. Press again to change the mode.

SWAP AUDIO Swaps the audio only from the large picture to the small picture when you are watching TV and using picture-in-picture (PIP).

SURROUND SOUND LEVEL CONTROLS

+ Increases the volume in rear and center speakers.

- Decreases the volume in rear and center speaker.

BYPASS Turns on Bypass mode, which cancels all Surround sound modes. Sound is generated without effects.

REAR•CTR LEVEL Adjusts the balance level of the rear and center speakers. Press once for Center. Press again for Rear.

RECEIVER/TUNER CONTROLS

CH + and CH - Tunes the receiver to the next or previous preset station stored in the receiver's memory.

FWD Lets you manually move up the AM/FM band.

INPUT•SEEK Selects auto tuning or manual tuning mode.

MENU SELECT Stores the selected station in the receiver's memory.

Number Buttons Let you enter numbers when needed.

REV Lets you manually move down the AM/FM band.

TV CONTROLS

+ On some RCA TV models, used to adjust menu controls.

- On some RCA TV models, used to adjust menu controls.

ANTENNA Changes the antenna input.

CH + and CH - Tunes the TV channel up and down.

CLEAR Removes any menu from the screen.

DELAY/CH CTRL In some RCA TV models, lets you control the channel that appears in the PIP window or the main screen in PIP mode.

GO BACK•DISC Returns to the previous channel.

GUIDE•RDM For some models, brings up 12 small pictures (previews of the next 12 channels in the channel list). Press again to turn off channel guide.

INFO Displays channel information.

INPUT•SEEK For some TV models, toggles through the available input sources.

MENU SELECT For some models, stores channels in the TV's memory.

MOVE arrows In some models, when using PIP, moves the small picture to another corner of the screen. Also, used for menu navigation in some TV models.

Number Buttons Let you enter channel numbers and time settings when needed.

PIP Turns on and off picture-in-picture on most RCA TV models with PIP.

POWER Turns the TV off.

RESET•REP Returns picture quality controls to their original settings.

SKIP To change channels, press once. The TV will wait 30 seconds before returning to the original channel. Press repeatedly to increase the time.

SWAP PIP Swaps the main picture in the PIP window.

TV Turns on the TV and puts the remote in TV mode.

TV MENU Displays the TV's on-screen menus.

VCR CONTROLS

CH + and CH - Tunes to the next or previous channel when watching TV through the VCR.

USING THE UNIVERSAL REMOTE CONTROL

CLEAR Resets the tape counter and corrects entries when programming the menus.

FWD Fast forwards a tape. Also, searches forward while a tape is playing.

GO BACK•DISC Returns to the previous channel.

INFO Displays channel, time and counter information on the screen.

INPUT•SEEK For some VCR models, selects line input or tuner.

LD•VCR2 For some VCR models, if programmed, turns on a second VCR and puts the remote in VCR2 mode.

MENU SELECT Displays the on-screen programming menus.

Number Buttons Let you enter numbers when needed.

PAUSE Pauses a tape.

PLAY Plays a tape.

POWER Turns the VCR off.

REC Records a tape.

REV Rewinds a tape. Also, searches backward while a tape is playing.

SKIP To change channels, press once. The TV will wait 30 seconds before returning to the original channel. Press repeatedly to increase the time.

STOP Stops a tape.

VCR Turns on the VCR and puts the remote in VCR mode.

DVD PLAYER CONTROLS

CH + and CH - Changes to the next higher or lower track on DVD.

DVD Turns on the DVD player, and puts the remote in DVD mode.

FWD Scans forward on the DVD.

Number Buttons Let you change to a specific track.

PAUSE Pauses the DVD.

PLAY Plays the DVD.

PLAYLIST For some DVD models, if programmed, programs the DVD player to playback tracks in a certain order.

POWER Turns the DVD player off.

REW Scans backward on the DVD.

STOP Stops the DVD.

SATELLITE RECEIVER CONTROLS

ANTENNA Toggles between antenna input and satellite receiver input.

CH + and CH - Tunes to the next or previous channel when watching TV through the satellite system. Steps through the pages in the guide if in guide mode.

GUIDE•RDM Displays the guide on the screen.

INFO Displays satellite header on screen. When in the guide, lets you select a program. Lets you select an option in a menu.

MOVE arrows Lets you point to different on-screen menu items.

Number Buttons Let you enter numbers when needed.

POWER Turns the RCA DSS® receiver off.

CD PLAYER CONTROLS

CD Turns on the CD player and puts the remote in CD mode.

CLEAR Clears an entry when programming the CD player.

FWD Moves forward through the CD one track at a time.

GO BACK•DISC Selects a disc to be played. Press GO BACK •DISC and then the CD number using the number buttons.

GUIDE•RDM Activates the Random function, which plays a random selection of tracks from one or all CDs.

INFO In some CD models, lets you switch between the number track information and time information.

USING THE UNIVERSAL REMOTE CONTROL

MENU SELECT Programs the CD changer to play up to 32 tracks in any order you choose.

Number Buttons Let you enter numbers when needed.

PAUSE Pauses the CD.

PLAY Plays the CD.

RESET•REP Repeats a track, a CD or an entire program. Press once to repeat the currently playing track, twice for the CD or program, and three times to turn the function off.

REV Moves backward through the CD one track at a time.

STOP Stops the CD from playing.

TAPE DECK CONTROLS

FWD Fast forwards the tape.

Number Buttons Let you enter numbers when needed.

PAUSE Pauses the tape.

PLAY Plays the tape.

POWER Turns the tape player off.

REV Rewinds the tape.

TAPE Turns on the tape player and puts the remote in tape player mode.

LASERDISC PLAYER CONTROLS

CH + and CH - Changes to the next higher or lower chapter on the laserdisc.

FWD Scans forward on the laserdisc.

LD•VCR2 For some laserdisc models, if programmed, turns on the laserdisc player and puts the remote in laserdisc mode.

Number Buttons Let you change to a specific chapter.

PAUSE Pauses the laserdisc.

PLAY Plays the laserdisc.

PLAYLIST For some laserdisc models, if programmed, programs to playback chapters on laserdisc in a certain order.

POWER Turns the laserdisc player off.

REV Scans backward on the laserdisc.

STOP Stops the laserdisc.

PROGRAMMING THE UNIVERSAL REMOTE

You can program the remote to control most brands of remote controllable TVs, VCRs and cable boxes. If you have an RCA, GE or ProScan VCR, you may not need to program the remote at all. Other manufacturer's brands need to be programmed.

PROGRAMMING THE REMOTE TO CONTROL A TV

To determine whether you need to program the remote, turn on the TV, point the remote at the TV's remote sensor and press TV. Then, press the POWER, or CH + or CH - button to see if the TV responds to the remote commands. If not, you need to program the remote.

Follow these steps to program your remote to control your TV:

1. Turn on the TV.
2. Look up your TV brand and code number(s) in the code list on the next page or on the code sheet packed with your remote.
3. Press and hold the TV button on the remote.
4. Enter the three-digit code from the code list.
5. Release the TV button, then press POWER to see if the TV responds to the remote commands. If not, try pressing TV then POWER.
6. Repeat steps 3 through 5 using the next code listed for your TV brand until the TV responds to the remote commands.

If you have questions about the use of the remote buttons with another component, refer to the component's user's guide.

USING THE UNIVERSAL REMOTE CONTROL

PROGRAMMING THE REMOTE TO CONTROL A VCR

To determine whether you need to program the remote, turn on the VCR, point the remote at the VCR's remote sensor, and press VCR. Then, press the POWER or CH + or CH - button to see if the VCR responds to the remote commands. If not, you need to program the remote.

Follow these steps to program your remote to control your VCR:

1. Turn on the VCR.
2. Look up your VCR brand and code number(s) in the code list on the next page or on the code sheet packed with your remote.
3. Press and hold the VCR button on the remote.
4. Enter the three-digit code from the code list.
5. Release the VCR button, then press POWER to see if the VCR responds to the remote commands. If not, try pressing VCR then POWER.
6. Repeat steps 3 through 5 using the next code listed for your VCR brand until the VCR responds to the remote commands.

PROGRAMMING THE REMOTE TO CONTROL AN AUDIO COMPONENT

To program the remote for a remote-controllable audio component, point the remote at the component and press the correct component button: CD for a CD player, TAPE for a tape player, etc. Then, press POWER or CH + or CH - . If the component doesn't respond, the remote needs to be programmed. Use the codes in the code list on the next page or on the sheet packed with your remote.

Follow these steps to program your remote to control your audio component:

1. Turn on the component to be programmed.
2. Look up the brand and corresponding code number in the code list on page 28 or on the code sheet packed with your remote.
3. Press and hold the component button on the remote.
4. Enter the three-digit code from the code list.
5. Release the component button, then press POWER to see if the component responds to the remote commands. If it doesn't, try pressing the component button, then POWER again.

6. Repeat steps 3 through 5 using the next code listed for the brand of your component until the component responds to the remote commands.

PROGRAMMING THE REMOTE TO CONTROL A CABLE BOX

Refer to the cable box connection page or contact your cable company to hook up your cable box. You may be able to program the remote for your remote controllable cable box. Use the codes in the code list on page 28 or on the sheet packed with your remote.

1. Turn on the cable box.
2. Look up the cable box brand and its code number(s) in the code list on the next page or on the code sheet packed with the remote.
3. Press and hold the SAT•CABLE button on the remote.
4. Enter the three-digit code from the code list.
5. Release the SAT•CABLE button, then press POWER or CH + or CH - to see if the cable box responds to the remote commands. If not, try pressing SAT•CABLE, then POWER again to see if the cable box responds.
6. Repeat steps 3 through 5 using the next code listed for the brand of your cable box until the cable box responds to the remote commands.

PROGRAMMING THE REMOTE TO CONTROL A LASERDISC PLAYER

You may be able to program your remote to control a laserdisc player. Use the codes shown to the right or on the sheet packed with your remote.

Follow these steps to program your remote to control your laserdisc player:

1. Turn on the laserdisc player.
2. Look up the brand and its code number(s) in the code list.
3. Press and hold the LD•VCR2 button on the remote.
4. Enter the three-digit code from the code list.

LASERDISC PLAYER CODES

Pioneer	033, 037
ProScan	033, 037
RCA	033, 037

USING THE UNIVERSAL REMOTE CONTROL

PROGRAMMING THE REMOTE TO CONTROL A DVD PLAYER

The remote is preprogrammed to control a RCA DVD player. A few of the remote buttons used with a DVD player are shown below. You may want to experiment with other buttons on the remote to see if they work with your DVD player.

<u>Receiver Remote</u>	(works like)	<u>DVD Remote</u>
INFO		INFO
GO BACK		GO BACK
CLEAR		CLEAR
MENU SELECT		MENU SELECT
MOVE Arrows		ARROWS
PLAYLIST		PLAYLIST
ENTER		ENTER

PROGRAMMING THE REMOTE TO CONTROL AN RCA BRAND DSS® RECEIVER

The remote is preprogrammed to control the RCA brand DSS® receiver. A few of the remote buttons used with the RCA brand DSS® receiver are shown below. You may want to experiment with other buttons on the remote to see if they work with your receiver.

<u>Receiver Remote</u>	(works like)	<u>RCA brand DSS® Remote</u>
INFO		SELECT/DISPLAY
GO BACK		PREV CH
ANTENNA		TV/SAT
CLEAR		CLEAR
MENU/SELECT		MENU
MOVE ARROWS		ARROWS

PROGRAMMING THE REMOTE TO CONTROL A SATELLITE RECEIVER

1. Turn on the satellite receiver.
2. Look up the satellite receiver brand and corresponding code number(s) in the code list on the right.
3. Press and hold the SAT•CABLE button on the remote.
4. Enter the three-digit code from the code list.
5. Release the SAT•CABLE button, then press POWER or CH + or CH - to see if the receiver responds to the remote's commands. If it doesn't, try pressing SAT•CABLE, then POWER again.
6. Repeat steps 3 through 5 using the next code listed for the brand of your receiver until the receiver responds to the remote commands.

This remote may not operate all models of the brands shown.

If a battery is removed from the battery compartment of the remote control, all control key functions will return to the original mode.

To program the LD•VCR2 button to control a second VCR, follow these steps but use the LD•VCR2 button instead of the VCR button.

The buttons on the remote may not work on all other brands of components. Experiment with the remote and your components to see which buttons work.

REMOTE TV CODES

Admiral	005	JC Penney.....	000, 008, 011, 019, 027, 040, 068, 077, 086, 088	Radio Shack	000, 021, 025, 036, 037, 059, 064, 078
Amtron.....	064	Jensen	011, 027	RCA	000, 006, 011, 019, 027, 034, 038, 044, 046, 088, 100, 101, 109
Akai	002, 103	JVC	012, 024, 036, 037, 040, 048, 051, 074	Realistic	021
A-Mark	102	Kawasho	002, 011, 027	Sampo	011, 027
Anam	104, 105	Kenwood	006, 011, 014, 027	Samsung.....	006, 011, 014, 015, 019, 027, 036, 037, 077, 110
Anam National.....	038, 106	Kloss Novabeam	035, 043	Sanyo	017, 021, 039, 056, 057, 058
AOC	011, 019, 027, 088, 107	KTV	078	Scott	028, 037, 064
Bell & Howell	005	Loewe	013	Sears	000, 006, 011, 014, 017, 018, 021, 023, 027, 039, 040, 041, 051, 071, 083, 095
Candle	011, 027, 033	Luxman	011, 027	Sharp	011, 020, 025, 027, 037, 052, 053, 059, 060, 108
Citizen	011, 027, 033, 064	LXI.....	000, 013, 018, 021, 023, 054	Signature	005, 094
Colortyme	011, 027, 084	Magnavox.....	006, 007, 010, 011, 013, 016, 027, 033, 035, 043, 049, 066, 087, 089	Sony	002
Concerto	011, 027	Marants	013	Soundesign	011, 027, 033
Contec/Cony	036, 037, 040, 042, 064	Marantz	011, 013, 027, 069	Sylvania.....	006, 007, 010, 011, 013, 016, 027, 033, 035, 043, 049, 066, 087, 089
Craig	064	Memorex.....	005	Symphonic	064, 076
Curtis Mathes.....	000, 011, 015, 027, 037	MGA	006, 011, 014, 019, 022, 027, 041, 056, 061, 068	Tatung	038
CXC	064	Mitsubishi	006, 011, 014, 019, 022, 027, 041, 055, 056, 061, 068	Technics	012
Daewoo.....	011, 019, 027, 112	MTC	011, 019, 027	Techwood	011, 027
Daytron	011, 027	Multivision.....	081	Teknika.....	011, 019, 027, 033, 036, 037, 040, 066
Dimensia	000	NAD	018, 023	Telecaption.....	090
Electrohome	006, 011, 014, 027, 038, 061, 068	NEC	011, 014, 019, 027, 038, 084	TMK	011, 027
Emerson	011, 026, 027, 028, 029, 030, 031, 032, 037, 042, 053, 064, 065, 067, 075, 076, 078, 079, 094, 095, 096	Panasonic... ..	012, 013, 038, 086, 111	Toshiba	018, 021, 023, 040, 071, 077, 085, 090
Envision.....	011, 027	Philco.....	006, 007, 010, 011, 013, 016, 019, 027, 033, 035, 037, 038, 043, 087, 089	Universal	008, 009
Fisher	017, 021, 039, 041	Philips.....	002, 006, 007, 010, 011, 013, 016, 033, 035, 037, 038, 043, 066, 073	Victor.....	051
Funai.....	064	Pioneer	011, 027, 045, 062, 093	Vidtech.....	019, 027
GE	000, 008, 009, 011, 012, 027, 038, 068, 086, 089, 091	Portland	011, 019, 027, 037	Wards	000, 005, 006, 007, 008, 009, 010, 011, 013, 019, 025, 027, 028, 035, 043, 059, 066, 076, 082, 089
Goldstar	003, 004, 006, 011, 019, 027, 037, 050	ProScan	000	Yamaha	006, 014, 019, 027
Hallmark	011, 027	Proton	011, 027, 037, 072	Zenith.....	001, 099
Hitachi	009, 011, 027, 036, 037, 040, 047, 048, 063, 080, 094, 097, 098	Quasar	012, 038, 092		
Infinity	013				
JBL.....	013				

REMOTE VCR CODES

Admiral	006	JVC	002, 014, 016, 030, 046, 074	Samsung	007, 013, 022, 032, 042
Aiwa	015	Kenwood	002, 014, 016, 030, 044, 046	Sansui	016, 071
Akai	003, 017, 022, 023, 063, 066	KLH	073	Sanyo	002, 012
Audio Dynamics	014, 016	Lloyd's	015	Scott	004, 013, 041, 049, 068
Bell & Howell	002	Logik	031	Sears	002, 005, 009, 012, 018, 019, 035, 043, 048
Broksonic	010	Magnavox	008, 029, 053, 056	Sharp	006, 024, 027, 039, 045
Candle	007, 009, 013, 044, 045, 046, 052	Marantz	002, 008, 014, 016, 029, 030, 044, 046, 061	Shintom	017, 026, 031, 055
Canon	008, 053	Marta	009	Signature	015
Capehart	001	MEI	008	Sony	017, 026, 038
Citizen	007, 009, 013, 044, 045, 046, 052	Memorex	008, 009, 012, 015	Sylvania	008, 015, 029, 053, 056
Colortyme	014	MGA	004, 027	Symphonic	015
Craig	007, 012	Midland	032	Tandy	002, 015
Curtis Mathes ..	000, 007, 008, 014, 015, 044, 046, 053, 064, 067	Minolta	005, 035	Tashiko	009
Daewoo	013, 045, 052, 076	Mitsubishi	004, 005, 027, 035, 040	Tatung	030
dbx	014, 016	Montgomery Ward	006	Teac	015, 030, 069
Dimensia	000	MTC	007, 015	Technics	008
Dynatech	015	Multitech	007, 015, 031, 032	Teknika	008, 009, 015, 021
Electrohome	027	NEC	002, 014, 016, 030, 044, 046, 059, 061, 064	TMK	067
Emerson	008, 009, 010, 013, 015, 020, 023, 027, 034, 041, 042, 047, 049, 057, 062, 065, 067, 068, 070	Panasonic	008, 053, 075, 077	Toshiba	005, 013, 019, 048, 049
Fisher	002, 012, 018, 019, 043, 048, 058	Pentax	005, 035, 044	Totevision	007, 009
Funai	015	Pentex Research +	046	Unitech	007
GE	000, 007, 008, 032, 037, 053	Philco	008, 029, 053, 056	Vector Research	014, 016, 044
Goldstar	009, 014, 046, 060	Philips	008, 029	Victor	016
Harman Kardon	014	Pioneer	005, 016, 050	Video Concepts	014, 016, 044
Hitachi	005, 015, 035, 036	Portland	044, 045, 052	Videosonic	007
Instant Replay	008	ProScan	000	Wards	005, 006, 007, 008, 009, 012, 013, 015, 025, 027, 031, 035
JCL	008	Quartz	002	Yamaha	002, 014, 016, 030, 046
JC Penney	002, 005, 007, 008, 014, 016, 030, 035, 051, 053	Quasar	008, 053	Zenith	011, 017, 026, 072
		RCA	000, 005, 007, 008, 028, 035, 037, 054, 069		
		Radio Shack/Realistic	002, 006, 008, 009, 012, 015, 019, 027, 043, 053		

AUDIO & CABLE CODES

AUDIO CODES

ads:	AMP	001
Aiwa:	CD	060
Akai:	AMP	002, 008
Denon:	CD	057
Dynamic Bass:	AM/FM	029
	CD	025
	TAPE	026, 027
	PHONO	028
Emerson:	CD	066
Fisher:	AMP	023
	CD	067
Hitachi:	CD	063
JVC:	AMP	016, 058
	AM/FM	030, 035
	CD	032
	TAPE	033, 034
	AUX	031
Kenwood:	AMP	017, 074
	AM/FM	074
	CD	067, 070, 077
	TAPE	071, 072
	PHONO	073
Kyocera:	AMP	009
Lotte (NEC):	AMP	075
Magnavox:	AMP	065
	AM/FM	065
	CD	061
Marantz:	AMP	022, 076
	AM/FM	076
	CD	068
Mitsubishi:	AMP	015, 059
	AM/FM	059
Nakamichi:	AMP	020
Onkyo:	AM/FM	082
	CD	078
	TAPE	080, 081
	PHONO	079
Panasonic:	AMP	012
	AM/FM	038
	CD	036, 083
	TAPE	037
Philips:	AMP	062
	AM/FM	062
	CD	061
Pioneer:	AMP	014
	AM/FM	042
	CD	039
	TAPE	040, 041
RCA:	AMP	024
	AM/FM	003
	CD	007, 043, 044
	TAPE	006
	PHONO	005
	AUX	004, 054
Realistic:	CD	063, 066
Sansui:	CD	045
Scott:	CD	066
	TAPE	055, 056
Sherwood:	AMP	011, 013
Sony:	AMP	021
	AM/FM	049
	CD	046
	TAPE	048, 053
	PHONO	047
Teac:	AMP	010
	CD	069
Technics:	AM/FM	052
	CD	050
	TAPE	051
Yamaha:	AMP	018, 019

REMOTE CONTROLLABLE CABLE BOX CODES

ABC	022, 046, 053, 054
Anvision	007, 008
Cablestar	007, 008
Diamond	056
Eagle	007, 008
Eastern International	002
General Instrument	046
GI 400	004, 005, 015, 023, 024, 025, 030, 036
Hamlin	003, 012, 013, 034, 048
Hitachi	037, 043, 046
Jerrold	004, 005, 015, 023, 024, 025, 030, 036, 045, 046, 047, 062, 065
Macom	037, 043
Magnavox	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041
NSC	009
Oak	001, 016, 038
Oak Sigma	016
Panasonic	003, 027, 039, 061
Philips	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041
Pioneer	018, 020, 044
Randtek	007, 008
RCA	000, 027
Regal	003, 012, 013
Regency	002, 033
Samsung	044
Scientific Atlanta	003, 022, 035, 063, 064
Signature	046
Sprucer	027
Starcom	046
Stargate 2000	058
Sylvania	011, 059
Teknika	006
Texscan	010, 011, 059
Tocom	017, 021, 049, 050, 055
Unika	031, 032, 041
Universal	051, 052, 060
Viewstar	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041
Warner Amex	044
Zenith	014, 042, 057, 061

CARE AND MAINTENANCE

TROUBLESHOOTING TIPS

RECEIVER/TUNER OPERATION

STEREO indicator is off.

- Adjust the antenna.
- The signal is too weak. Connect an external antenna.
- The signal is Mono.
Severe hum or noise.
- The signal is too weak. Connect an external antenna.
- Adjust the antenna.

REMOTE CONTROL OPERATION

The remote control does not operate the unit.

- Another function is selected on the remote. Press the correct function button.
- No batteries installed. (Included with your system) 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.
- The batteries are exhausted. Replace all batteries.
- The remote is not pointed at the remote control sensor on the main unit or there is an obstacle between the remote and the main unit.
- The remote control is too far from the main unit.
- Move closer.

GENERAL

No audio.

- Make sure the MUTE indicator on the front panel is off.
- Make sure the speakers are turned on.
- Check the connections.
- Check the power cord connection.
No audio from one channel.
- Adjust the balance control.
- Check the speaker wire connection or connecting cable. Noise when the TV is turned on.
- The TV is too close to the audio system.
Specific instruments sound displaced.
- Check the connection between the receiver and the speakers.
The sound does not match the video.
- Press the function button for the video source.

CLEANING THE EXTERIOR

- Disconnect the system from AC power before cleaning the exterior of the system with a soft dust cloth.

EQUIPMENT SPECIFICATIONS

AMPLIFIER SECTION

Left/Center/Right (at 8 Ω):

RV-9968	20 watts/20 watts/20 watts
RV-9978	50 watts/50 watts/50 watts
	0.9% THD @ 1 KHz

Rear Surround (at 16 Ω):

RV-9968	10 watts/10 watts
RV-9978	25 watts/25 watts
	1.0% THD @ 1 KHz

Muting Attenuation:	50dB
Frequency Response	40-20 kHz +/- 3 dB

VIDEO SECTION

Input (Sensitivity/Impedance):	1 Vp-p/75 Ω
Output (Level/Impedance):	1 Vp-p/75 Ω
Frequency Response:	10 Hz to 6MHz at +/- 3 dB
Signal to Noise Ratio:	40 dB
Crosstalk @ 3.58 MHz:	40 dB

AM TUNER SECTION

Frequency Response:	80 Hz -2 kHz +/- 6 dB
Usable Sensitivity:	800 uV/m @ S/N 20 dB
Signal to Noise :	38 dB
Image Ratio:	27 dB @ 1000 kHz
IF Rejection:	35 dB

FM TUNER SECTION

Frequency Response:	40 Hz-15 kHz +/- 3 dB
Quieting	24 dBu
Signal to Noise:	60 dB (stereo)/65 dB(mono)
Image Ratio:	40 dB
IF Rejection:	50 dB

Specifications are based on nominal measurements.

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LIMITED WARRANTY

What your warranty covers:

- Any defect in materials or workmanship.

For how long after your purchase:

- One year. (The warranty period for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.)

What we will do:

- Provide you with a new, or at our option, a refurbished unit.
- The exchange unit is under warranty for the remainder of the original product's warranty period.

How to make a warranty claim:

- Properly pack your unit. Include any cables, etc., which were originally provided with the product. We recommend using the original carton and packing materials.
- Include in the package evidence of purchase date such as the bill of sale. Also print your name and address and a description of the defect. Send standard UPS or its equivalent to:

**Thomson Consumer Electronics
Product Exchange Center
11721B Alameda Ave.
Socorro, Texas 79927**

- Pay any charges billed to you by the Exchange Center for service not covered by the warranty.
- Insure your shipment in case of loss or damage. Thomson accepts no liability in case of damage or loss.
- A new or refurbished unit will be shipped to you prepaid freight.

What your warranty *does not* cover:

- Customer instruction. (Your Owner's Manual provides information regarding operating instructions and user controls. For additional information, ask your dealer.)
- Installation and set-up service adjustments.
- Batteries.
- Damage from misuse or neglect.
- Products which have been modified or incorporated into other products.
- Products purchased or serviced outside the USA.
- Acts of God, such as but not limited to lightning damage.

Product Registration:

- Please complete and mail the Product Registration Card packed with your unit. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

How state law relates to this warranty:

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

If you purchased your product outside the USA:

- This warranty does not apply. Contact your dealer for warranty information.

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