



USER MANUAL

RTD325W



It's important to read this instruction prior to using your new product for the first time.

FCC Information

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

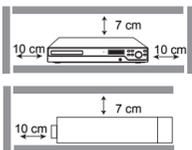
WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



This Home Theater has earned the ENERGY STAR.

Ventilation

You must adequately ventilate the product. Make sure there is adequate space around the unit to provide proper air flow for ventilation. See diagram.



This product complies with DHHS Rules 21 CFR Subchapter J. Applicable at the date of manufacture.

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.

Removing the power plug is the only way to completely remove power from your product. Make sure the power plug remains easily accessible.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF WALL OUTLET, THEN FULLY INSERT.

Note

This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, this player cannot play the disc. The Region number for this DVD player is Region 1.

FCC Information



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

WARNING: MAINS PLUG IS USED AS DISCONNECT DEVICE AND IT SHOULD REMAIN READILY OPERABLE DURING INTENDED USE. IN ORDER TO DISCONNECT THE APPARATUS FROM MAINS COMPLETELY, THE MAINS PLUG SHOULD BE DISCONNECTED FROM THE MAINS SOCKET OUTLET COMPLETELY.

Caution

This product utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure. Do not open covers and do not repair yourself. Refer servicing to qualified personnel.

Visible laser radiation when open. Avoid exposure to beam. Class 1 Laser product. This system must be opened only by qualified technicians to prevent accidents caused by the laser beam.



CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
PRODUCTO LASER DE CLASE 1

Illustrations contained in this document are for representation only.

THE LIGHTNING FLASH AND ARROWHEAD WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF "DANGEROUS VOLTAGE" INSIDE THE PRODUCT.

THE EXCLAMATION POINT WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF IMPORTANT INSTRUCTIONS ACCOMPANYING THE PRODUCT.

Please respect the environment and prevailing regulations. Before you dispose of batteries or accumulators, ask your dealer whether they are subject to special recycling and if they will accept them for disposal.



This class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la class B est conforme à la norme du NMB-003 du Canada.

WARNING

To reduce the risk of fire or electric shock hazard, do not expose this product to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, should be placed on the apparatus.

Important Information

Service information

This product should be serviced only by those specially trained in appropriate servicing techniques.

Important battery information

- Do not mix different types of batteries or new and old batteries. Do not use rechargeable batteries.
- In order to avoid any risk of explosion, observe the polarities indicated inside the battery compartment. Replace only with the type of batteries specified. Do not dispose of them in a fire or recharge them.
- If you are not using the remote control for a long period of time, remove the batteries.

DVD copy protection

In accordance with the DVD standard, your DVD player is equipped with a Copy Protection system, which can be switched on and off by the DVD disc itself, in order to make any recording of the relevant DVD disc onto a videotape of very poor picture quality, or even impossible. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home use only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Important Safety Instructions

Please read and save for future reference.

- Some of the following information may not apply to your particular product; however, as with any electronic product, precautions should be observed during handling and use.
- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your wall outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments / accessories specified by the manufacturer.
- Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus; the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Important Safety Instructions

Additional safety information

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Always leave sufficient space around the product for ventilation. Do not place product in or on a bed, rug, in a bookcase or cabinet that may prevent air flow through vent openings.
- Do not place lighted candles, cigarettes, cigars, etc. on the product.
- Connect power cord only to AC power source as marked on the product.
- Care should be taken so that objects do not fall into the product.
- Do not attempt to disassemble the cabinet. This product does not contain customer serviceable components.

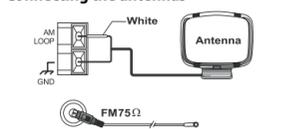
If your product operates on batteries, adhere to the following precautions:

- Any battery may leak electrolyte if mixed with a different battery type, if inserted incorrectly, or if all batteries are not replaced at the same time.
- Any battery may leak electrolyte or explode if disposed of in fire or an attempt is made to charge a battery not intended to be recharged.
- Discard leaky batteries immediately. Leaking batteries can cause skin burns or other personal injury. When discarding batteries, be sure to dispose of them in the proper manner, according to your state/provincial and local regulations.
- Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

Connections and Setup

- Where the mains plug or an appliance coupler is used as a disconnect device, the disconnect device shall remain readily operable.
- Other important use and cleaning information at the end of the booklet.

Connecting the antennas



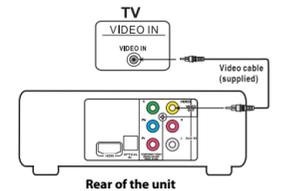
The AM and FM antennas connect to the AM and FM terminals on the system's back panel. They must be hooked up in order to receive clear reception.

AM Loop Antenna

- Uncoil the AM Antenna wire.
- Press down on the Antennas tab to open the terminal.
- Make sure the white wire on the AM loop antenna is inserted into the AM terminal and the other wire is inserted into the ground loop terminal.

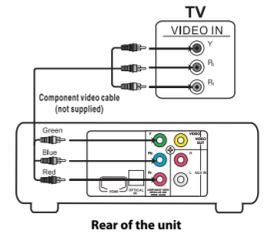
Connecting to your TV (Analog Video)

- Method 1**
Composite video jack (yellow)
- The basic video jack is color-coded yellow.
 - Video cable (yellow) is supplied for the connection for good picture quality.
 - Connect the video OUT jack on the receiver to the Video IN jack on your TV so the video content goes from the receiver to the screen.



Method 2

- Component video jacks (Pr, Pb, Y)
- The component video jacks are color-coded green, blue and red.
 - Additional component video cables (not supplied) are required to provide best picture quality. They are usually color-coded green, blue and red.
 - Connect the component video OUT jacks on the receiver to the component video IN jacks on your TV so the video content goes from the receiver to the screen.

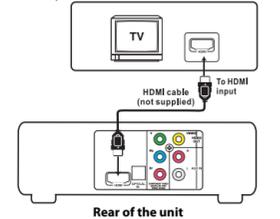


- If your television is a high definition television, use the unit's HDMI output to get the highest possible video resolution. If unable to use a HDMI connection, use the unit's component video output and set the Progressive Scan option in the Video menu to ON, to get the next highest possible video resolution.
- If one of the devices is not working, check that all the cables have been inserted properly into the jacks.
- If your component has only one input for audio (mono), connect it to the left (white L/Mono) audio jack on the TV and don't connect the right audio part of the cable.

Connections and Setup

Connecting to your TV (via HDMI input)

HDMI stands for High Definition Multimedia Interface. HDMI transfers digital audio and uncompressed digital video on a single cable. Press the HDMI button on the remote control to change output signals as follows: 480p, 720p, 1080i and 1080p.

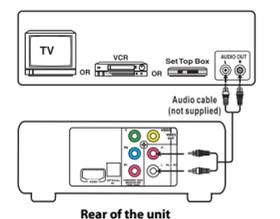


Notes:

- Refer to the owner's manual of the connected TV as well.
- When using HDMI cable, do not connect to other analog video outputs.

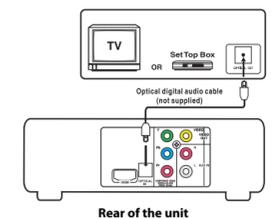
Connecting AUDIO from external sources such as TV (Aux In)

Using AUX IN jacks
Connect the AUX IN jacks on rear of the unit to the AUDIO OUT jacks on VCR, TV, Set Top Box or other component. Press either SOURCE on the main unit or LINE-IN/ AUX on the remote control to toggle select AUX IN mode.



Using Digital Optical Input (recommended)

Connect components capable of outputting Dolby Digital surround sound (e.g. TV or Set Top Box) or standard PCM (CD) format digital signals. Use a fiber optical cable for this digital audio connection (cable not included). Press OPTICAL button on remote control or SOURCE button on main unit to select OPTICAL for digital audio output components.



Using LINE IN jack

Connect the Ø3.5mm LINE IN jack on the front panel of the unit to the headphone output on mp3 players.

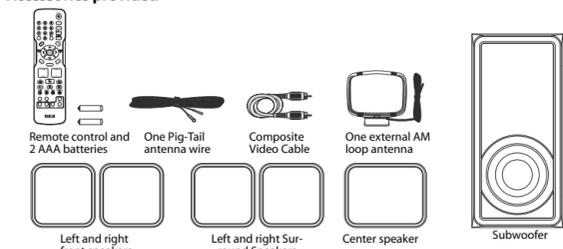
Notes

- Ø3.5mm to Ø3.5mm audio cables (not included) are required.
- To listen to the audio input from the connected component, press SOURCE on the main unit or LINE-IN / AUX on the remote control to toggle to LINE IN mode.

Suggest using Ø3.5mm LINE IN jack for mp3 player and rear AUX IN jacks for equipment such as a TV, VCR, Satellite or Cable Box.

Connections and Setup

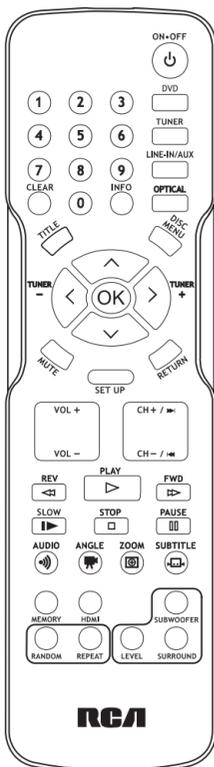
Accessories provided



Things to consider before you connect

- Ensure that the mains supply in your house complies with that indicated on the identification sticker located on the back of your unit.
- Install your unit horizontally, away from any source of heat (fireplace) or appliances creating strong magnetic or electric fields. The components of this unit are sensitive to heat. The maximum ambient temperature should not exceed 35°C / 95°F.
- Leave enough space around the unit to allow adequate ventilation: 10cm/4 inches on either side and above the top, and 5cm/2 inches at the rear.
- The humidity of the room should not exceed 75%. If you have to use the unit outdoors, do not expose it to rain or splashing water. The apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.
- Moving the unit from a cold place to a warm one can cause condensation on some components inside the unit. Let the condensation disappear on its own before turning the unit on again.
- Before moving the unit, make sure the disc tray is empty.

Overview of Controls



Remote functions in DVD/CD mode

- ON-OFF:** Turns on/off the unit.
- DVD:** Selects the DVD mode.
- TUNER:** Selects the TUNER and selects between FM/AM.
- LINE-IN/AUX:** Selects and toggles between the front LINE IN mode and rear AUX IN mode. (for listening to audio input from connected TV, VCR or Set Top Box).
- OPTICAL:** Selects OPTICAL IN at rear for digital audio connection.
- 0-9:** Number entry.
- CLEAR:** Quits the current setting manually from the TV screen without saving change.
- INFO:** Accesses the Info menu.
- TITLE:** Accesses the title menu of DVD discs.
- DISC MENU:** Accesses the disc menu during playback.
- OK:** Confirms your selection.
- <> / > / < / > / < / > :** To navigate through the menus. The left and right arrows also tune the radio frequency in the tuner mode.
- MUTE:** Mutes and restores the sound.
- SETUP:** Enters Setup menu.
- RETURN:** In DVD mode, returns to the previous menu.
- VOL +/-:** Adjusts the sound volume.
- CH+ / CH- / CH- / CH+ :** Directly accesses the next or previous chapter (DVD) or track (CD). Selects programmed stations in TUNER mode.
- REV:** Starts reverse accelerated play.
- PLAY:** Starts playing a disc.
- FWD:** Starts forward accelerated play.
- SLOW:** Starts SLOW motion function.
- STOP:** Stops playback.
- PAUSE:** Freezes frame, accesses frame advance.
- AUDIO:** Accesses the audio function.
- ANGLE:** Accesses the camera angle function for DVD disc.
- ZOOM:** Accesses the Zoom function.
- SUBTITLE:** Selects the subtitle languages or turns subtitle off (if available).
- MEMORY:** Creates programs.
- HDMI:** Changes video output signals (480p, 720p, 1080i or 1080p).
- SUBWOOFER:** Shows current Subwoofer setting (Soft/Balance/ Strong/Powerful). To change setting, first press SUBWOOFER button, then use < / > buttons on the remote control to change the current setting.
- RANDOM:** Turns on/off random playback on CDDA disc.
- REPEAT:** Accesses the repeat function.
- LEVEL:** Toggles channels for different level settings. Adjusts the value using VOL +/-.

Overview of Controls

SURROUND: Shows current Surround Sound setting (5.1 ch or Stereo). To change setting, first press SURROUND button, then use < / > buttons on the remote control to change the current setting.

We strongly recommend you leave system in 5.1 Channel Surround setting.

Remote control functions in tuner mode

- TUNER:** Selects the TUNER and switch between FM/AM.
- VOL +/-:** Adjusts the sound volume.
- MUTE:** Mutes and restores the sound.
- TUNER +/-:** Tunes down and up the radio frequencies.
- MEMORY:** Stores a station.
- CH+/-:** Selects programmed stations.
- AUDIO:** Selects between Stereo and Mono mode for Tuner (FM).

Using remote control to navigate through the on-screen menus

Use <, >, < / > and OK on the remote control to navigate through the on-screen displays (the DVD player's menu, the Info Display that appears during playback, or a disc's menu).

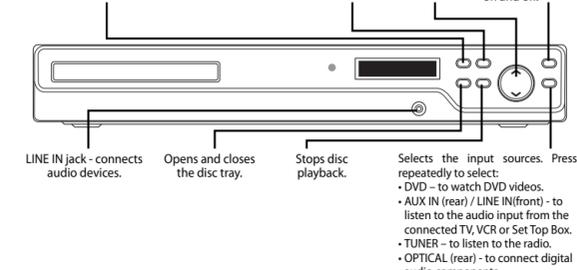
Use <, >, < / > on the remote to move through on-screen menus in the direction of the arrow button (e.g., to move right, press >). The arrow buttons are used to highlight an option. Once highlighted, press OK to select the option that is highlighted.

Note:

Insert 2 "AAA" ("UM-4"/"R03") batteries to the remote control prior to use.

Overview of Controls - Front Panel Controls

Tap repeatedly to adjust the display window brightness (Normal, Middle level, most dim level). When restart the unit, the display window brightness will be restored to be Normal.

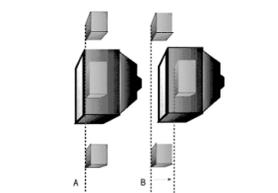


Connections and Setup

Front speaker placement

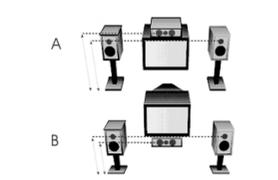
For best results, follow the speaker placement below.

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



Angle
Place the left and right speakers to form a 45-degree angle with your favorite viewing position to duplicate the soundtrack mixer's perspective.

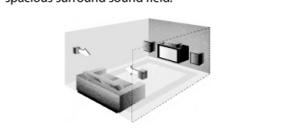
Height
The three front speakers should be as close as possible to the same height. This often requires placing the center speaker directly on top (A) or beneath (B) the TV set.



Better surround placement

Location
If possible, place surround speakers to either side of the listening area, not behind it.
Height
If space permits, install surround speakers 2-3 feet above viewers. This helps to minimize localization effects.

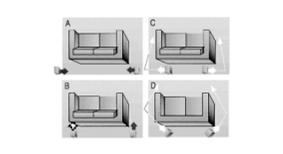
Aiming
Aim surround speakers straight across the room, not down at viewers, to help create a more open, spacious surround sound field.



Alternative Surround Placement

Rear wall
If rear wall mounting is the only choice, aim the speakers at each other (A), towards the front (B) or towards the sidewalls (C, D). Experiment with placement until sounds seem to surround you, rather than come from behind you.

No adjacent walls
Surround speakers can go on stands facing each other to approximate sidewall mounting (A), or to the sides or rear of the viewing area, aimed upwards; they can go right on the floor, or preferably, a few feet off the floor such as on end tables (B).



Test tone/Channel balance

Channel balance
Your receiver is equipped with a test signal generator to help you balance the audio level for each channel. See Audio Setup under The Setup Menu section for more details on how to access this feature.

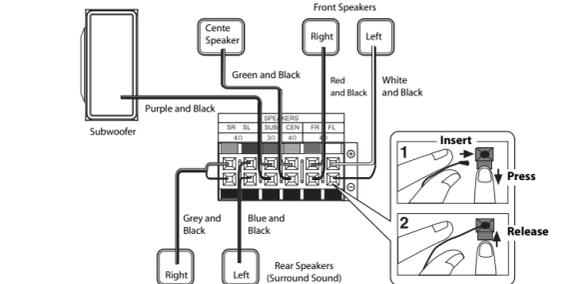
Level adjustment and surround channel level expectation
Even though you adjust the surround channel to be as loud as the others on the test signal, you might find that surround channels seems quieter for actual TV and Movie content. This is because producers use surround for subtle atmospheric and ambience, and only rarely for special effects.

Connections and Setup

Connecting the speakers

Speaker wires are color-coded to match the terminals. Connect the speaker wire from the back of each speaker to the corresponding color terminal at the back of the unit. Press down the tab to open the terminal and insert the wire. Release the tab to lock wire in the terminal.

- When connecting the speakers, make sure the polarities ("+" speaker wire to "+" on the receiver. For example, red wire to red terminal on the receiver) of speaker wires and terminals match. If the cords are reversed, the sound will be distorted. Do not let the speaker wires touch each other, it will damage the Home Theater's amplifier.
- Center speaker provided with this unit are magnetically shielded to protect your TV set. It is not recommended to place the front speakers, surround speakers and subwoofer near the TV set.



To adjust each speaker volume level for optimum listening experience.

- Press the LEVEL button on the remote control to select FL (front Left speaker).
- Press the VOL+ / VOL- buttons to adjust the value up or down (between -10dB and +10dB).
- Repeat step (1) and (2) for the other speakers FR, SL, SR, CT, SW.

Speaker gains may be set to levels of up to +10dB, actual max levels may also depend on your Volume Setting.

Positioning speakers

- Left, Right (Front Speakers)
Front speakers carry primarily music and sound effects.
- Center
In surround mode, the center speaker carries most of the dialog as well as music and effects. It should be set between the left and right speakers.
- Surround (Rear Speakers)
The surround speakers' overall sound balance should be as close as possible to the front speakers. Proper placement is vital to establish an evenly distributed sound field.
- Subwoofer
A subwoofer is designed to reproduce powerful low bass effects (explosions, the rumble of spaceships, etc.).

Playing Discs - Basic Functions

Compatible discs

- DVD, DVD-R, DVD-RW, DVD+R, DVD+RW
- CD, CD-R, CD-RW

Compatible formats

- DVD, JPEG
- CD

Regional coding

Your unit has been designed to process regional management information stored on DVD discs. The regional code for your unit is 1. Discs that have a different regional code will not play.

Operating the DVD receiver

- Turn on your television set.
- Press ON-OFF on the remote or ON/STANDBY located on the unit's front panel. Press DVD on the remote control.

Loading disc

- Press < on the front panel to open the disc tray.
- Place a disc onto the disc tray with the label side up.
- Press < again to close the disc tray.

Playback

Switch the unit and the TV set on.
1. After loading a disc, playback starts automatically, or the disc menu appears. If the disc menu appears, select the Play option to begin playback.
2. Press STOP to stop playback.

Accelerated play

While the disc is playing, press REV or FWD one or more times to vary the speed and direction of the accelerated play. Press PLAY to resume normal playback.

Pause

While the disc is playing, press PAUSE once for freeze frame. Press PLAY to resume normal playback.

Frame advance

- Press PAUSE twice. "Step" is displayed.
- Each time you press PAUSE button, the picture advances one frame.
- Press PLAY to resume normal playback.

Basic Playback Operations

Variable slow motion

- Press SLOW button on the remote in play mode.
- Each time the SLOW button is pressed the speed of slow-motion playback changes in the following sequence:



- Press PLAY to resume normal playback.

Changing chapter/track

While the disc is playing, press the CH+/- button to go immediately to the next or previous chapter, or to the next or previous track.

Zoom

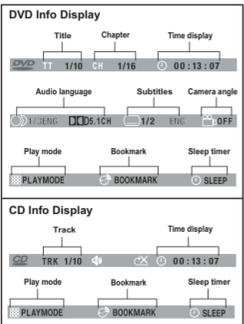
- While a disc is playing, press ZOOM until you reach the zoom size you want. The ZOOM button toggles through x2, x3, x4 and then zooms out to x1/2, x1/3 and x1/4, then returns to normal playback.
- Move from one area to another (pan) using the arrow buttons.
- To turn Z

The Info Menu

- Notes:**
 - When you press STOP the unit stores the point where playback was interrupted. If you press PLAY again, playback resumes from this point. To stop playback completely or to start again from the beginning, press STOP twice. If the unit is left in STOP mode for more than 5 minutes without any user interaction, a screen saver is activated. At the end of 30 minutes without any user interaction, the unit switches off automatically.
 - INVALID KEY will be displayed if the function you select is not available.

The Info Menu

- Press INFO on the remote while a disc is playing to display the info menu. The first banner shows title, chapter, and time display information.
- Press INFO again for audio language, subtitles, and camera angle.
- Press INFO a third time for play mode, bookmark and sleep timer.
- Use the right/left arrow buttons on the remote to select an icon.
- Use the up/down buttons to scroll through the options.



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The Info Menu

Audio (DVD)

Some discs have several audio tracks used for different languages or different audio formats.

To change the language or audio format during playback:

- Press the INFO button twice.
- Use the left/right arrow buttons to select the Audio icon, or press the AUDIO button on the remote control.
- Choose a language or an audio format with the up/down arrow buttons.

If the disc was recorded using a single camera angle, this function is not available.

This option is only available if the disc offers dialog languages or audio formats. When you change the dialog language using the Info menu, it only changes the dialog language of the disc being played. When you eject the disc or switch off the unit, the language will revert to the one you selected in the language Setup menu.

Subtitles (DVD)

Subtitles are turned off by default. Turn on subtitles as follows:

- While the disc is playing, press INFO twice, then select the Subtitles icon using the left/right arrow buttons.
- Select a language using the up/down arrow buttons.
- To turn subtitles off, select the off option or press SUBTITLE on the remote.

When you change the language of the subtitles using the Info menu, it only applies to the disc currently being played. When you eject the disc and switch off the unit, the subtitles will default to the subtitle language you selected in the Languages menu.

This function may not be available on all discs.

Camera angle (DVD)

Some discs offer different camera angles for specific scenes.

- To change the camera angle, press the ANGLE button on the remote or press the INFO button twice and select the Camera angle icon with the left/right buttons.
- Choose the angle with the up/down arrow buttons.

If the disc was recorded using a single camera angle, this function is not available.

Play mode (all discs except jpeg)

- While the disc is playing, press INFO button twice for CD and three times for DVD.
- Select the Play Mode icon using the left/ right arrow buttons.
- Use the up/down arrow buttons to select an option.

- DVD play modes: standard, program, A-B repeat, title repeat, chapter repeat. Program play mode is only available if a program list has been created (see below). Repeat mode is only available with discs that display elapsed time and remaining time. To repeat a sequence between points A and B, choose the A-B repeat option, and then follow the instructions for entering the two points.
 - Audio CD play modes: standard, introscan, random, program, repeat A-B, repeat disc, repeat track.
- To stop repeat playback, select the Play Mode icon and use the up/down arrow buttons to choose the Standard option.

The Info Menu

Creating a Program List for Program Play Mode (Audio CDs and DVD discs)

To use program play mode, you must first create a program list.

- To create a program list, press the INFO button twice for CD and three times for DVD. Highlight the Play Mode option and press the up arrow to select the Program screen is displayed.
- Press OK. The Program screen is displayed.
- The first spot in the list is highlighted. Use the number buttons on the remote to enter a track number. As for DVD discs: T stands for Title while C stands for Chapter. As for Audio CDs: T stands for Track.
- Use the arrow buttons to move to the next spot in the list. Enter the next track number.
- Continue entering tracks until you have completed your list.
- Highlight the Play option at the bottom of the screen and press OK or press PLAY to start playback. The program list will play in the order you programmed it.

To stop program play, press STOP or select Standard from the Play Mode option in the INFO display.

If you want to cancel the list, repeat Steps 1 and 2 to select CLEAR and press OK.

Sleep

- Press INFO twice for CD and three times for DVD. Select Sleep icon with the left/right arrow buttons.
- Select one of the available options using the OK button : Off, 30, 60, 90 or 120 minutes.

- Notes:** This function is not available AUX IN / LINE IN / OPTICAL / TUNER mode.

Introscan (CD)

This option plays the first ten seconds of each track on a CD.

- Press the INFO button twice, then select the Play mode icon with the left/right arrow buttons.
- Press the up/down arrow buttons to select the INTRO option and press OK to start IntrosCan.
- Press STOP to stop IntrosCan, and press PLAY to resume normal playback.

Bookmark (DVD and audio CD)

- Press INFO twice for CD and three times for DVD. Select the Bookmark icon with the left/right buttons, and press OK. A menu is displayed with five bookmarks.
- The first bookmark space is highlighted. Press OK to set the bookmark. The bookmark is saved and is indicated by the number 1. You can set up to five bookmarks on a disc.
- To start playback from a bookmark, press the PLAY button on the remote.
- To delete a bookmark, highlight it and press CLEAR.

- Notes:** This function is only available with discs whose elapsed time or remaining time appears in the Info menu.

Jpeg Files

Playing jpeg files

Jpeg files are image files. Make sure that they have a resolution of less than 2 megapixels.

- Open the disc tray.
- Place the disc with the printed side facing up and close the disc tray. The folders on the disc will be listed in numerical order on the left side of the screen. When you highlight a folder, then press OK button. The list of pictures in the folder are listed in numerical order on the right side of the screen.
- Press the left arrow button to move to the folder lists on the left side of the screen. Select a folder using the up/down arrow buttons on the remote control, then press OK button.
- Press the right arrow button to move to the file list on the right side of the screen. Use the up/down arrow buttons to select a file. Press PLAY to start picture slideshow.

- The unit starts the slide show with the jpeg file you have selected, then displays all the jpeg files in the same folder, then all the jpeg files in the subfolders located in the same folder. You can set the amount of time a picture remains on the screen in the Video Setup menu.



Notes:

- The time taken for the contents of the disc to be displayed varies according to the size and number of jpeg files on the disc. If nothing is displayed after a few minutes, the file sizes may be too large. Reduce the files' resolution and write another disc.
- Before inserting a disc, make sure it is compatible with the unit.

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Additional Information

- This unit is for domestic use only and must not be used for industrial purposes.
- Total or partial copying of recordings protected by copyright legislation, without the explicit permission of the holder of the rights, contravenes current legislation. Copying or downloading music files for sale or any other business purpose constitutes or could constitute a violation of copyright law.

Cleaning

- Use a soft, dry, clean cloth. Regularly dust the vents at the back or sides.
- Using solvents, abrasive or alcohol-based products risks damaging the unit.
- If an object or liquid enters inside the unit, unplug it immediately and have it checked by an authorized service or service center.

Handling and caring for discs

- Handle your discs with care. Hold the disc with your fingers at the edges or through the hole.
- Insert the disc with the label facing up (for a single-sided disc).
- Place the disc properly into the tray in the allotted holder.
- Use a soft cloth to clean discs if necessary, always wiping from the centre to the edge.
- Always put discs back in their cases after use and store in a vertical position.
- Do not close the tray with two discs in it or with a disc not sitting correctly in the holder.
- Do not play cracked, chipped or warped discs nor try to repair them with adhesive tape or glue.
- Do not write on a disc.
- Do not move the unit when a disc is being played.
- Do not scratch discs or store them in places exposed to direct sunlight, high humidity or high temperatures.
- Do not use aerosol cleaners, benzene, anti-static liquids or any other solvent for cleaning discs. When cleaning, wipe gently with a soft damp (water only) cloth from the centre to the edge, avoiding circular motions, which could cause scratches and interference during playback.

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Additional Information

Jpeg files

CD-R and CD-RW with jpeg files. Certain jpeg files, including progressive jpeg files, cannot be read by this unit.

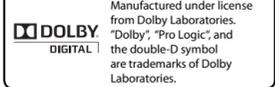
When composing your title, use 10 characters or less, no spaces, and avoid the use of special characters including (/ , \ , = , +).

The total number of files and folders on the disc should be less than 650.

Make sure that files have the ".jpg" extension. Files without the ".jpg" extension will not be able to be read by the unit — even though the files are shown as jpeg images on your computer.

Sound Enhancement Systems

This receiver is equipped with several built-in sound enhancement systems.



Dolby Pro Logic

The Pro Logic mode uses the built-in circuit to steer the Left, Center, Right and Mono Surround channel audio signals and uses all five speakers to play both stereo and Dolby Pro Logic program source, such as TV and VCR. You can use this mode with any stereo program source (such as VCR/TV) to enjoy multi-channel sound experience.

Dolby Digital

The Dolby Digital mode lets you enjoy full digital surround from software processed in the Dolby Digital format. Dolby Digital provides better sound quality and a more powerful presence than conventional Dolby Surround. This unit is equipped with Dolby Digital 5.1-channel so that you can enjoy enhanced full digital surround sound. The new system provides stereo separation of the rear speakers (Rear-Right, Rear-Left). Adding the subwoofer channel to the 5 channels for bass sounds (counted as 0.1 channel) results in 5.1 channels (or 6 Channels) that bring you the most sophisticated Dolby Digital sound enjoyment.

Technical Specifications:

RMS Output Power: Dolby Digital Mode with 10% Total Harmonic Distortion
Rear Channels: 1kH, 4Q
Front and Center Channel: 1kHz, 4Q
Subwoofer Channel: 100Hz, 3Q

Muting Attenuation: 70 dB
Frequency Response: 20Hz ~ 20kHz/3dB, 1kHz ref.
Subwoofer Frequency Response: 20Hz ~ 200Hz/3dB, 100Hz ref.
Signal to Noise Ratio: 70 dB (Dolby Digital)

AM Tuner Section:
Frequency Response: 2kHz +/-3dB, 400Hz ref.
Usable Sensitivity: 3000uV/m @ S/N 20dB
Signal to Noise: 38dB
IF Rejection: 35dB

FM Tuner Section:
Frequency Response: 15kHz +/-3dB, 1kHz ref.
Quieting: 24dB
Signal to Noise: 62dB(stereo) / 65dB(mono)
IF Rejection: 70dB

Dimensions (W x D x H mm) :
Unit: 430 x 240 x 66
Front Speakers: 110 x 85 x 110
Center Speaker: 140 x 85 x 110
Rear Speakers: 110 x 85 x 110
Subwoofer: 169 x 288 x 330

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Limited Warranty

AVC MULTIMEDIA ("AVC") makes the following limited warranty. These limited warranties extend to the original consumer purchaser and is limited to non-commercial user of the product.

One Year Parts & Labor Warranty

AVC products purchased in the United States are warranted to be free from defects in materials or workmanship for a period of one year from the date of their original retail purchase. If the unit fails to conform to this warranty, we will service the product using new or refurbished parts and products, at **AVC's** sole discretion.

During a period of one year from the effective warranty date, **AVC** will provide, when needed, service labor to repair a manufacturing defect at its designated Service Center. To obtain warranty service in the United States, you must first call our **Customer Support Center at 1-800-506-5746 or 1-877-252-6873, during the hours listed in the box below.** The determination of service will be made by AVC customer support.

PLEASE DO NOT RETURN YOUR UNIT TO AVC WITHOUT PRIOR AUTHORIZATION. New or remanufactured replacements for defective parts or products will be used for repairs by **AVC** at its designated Service Center for one year from the defective warranty date. Such replacement parts or products are warranted for an additional one year from the date of repair or replacement. The Customer will be required to ship the unit to the Service Center indicated at the time Customer Support is contacted to make the necessary repairs. The customer is responsible for all transportation charges to the service facility.

Packaging and Shipping Instruction

When you send the product to the AVC service facility you must use the original carton box and packing material or an equivalent as designated by **AVC**.

Your Responsibility

- You must retain your bill of sale to provide proof of purchase.
- These warranties are effective only if the product is purchased and operated in the U.S.A. or Canada.
- Warranties extend only to defects in material or workmanship, and do not extend to any product or parts which have been lost or discarded, or damage to product or parts caused by misuse, accident, improper operation or maintenance, or use in violation of instructions provided with the product, or to product which has been altered or modified without authorization of **AVC**, or to products or parts thereof which have had the serial number removed or changed.

Out of Warranty

- In the event your product requires repair after the limited warranty period has expired, please contact our Customer Support Center at **1-800-506-5746, 1-877-252-6873 or www.RCAav.com**
Hours: Monday-Thursday: 9am-7pm, Friday: 9am-5pm, Saturday: 9am-NOON Eastern time.
- Important:** You are responsible for any transportation, shipping or insurance relative to the return of the product to our Product Returns Center.

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Radio

The unit has a built-in tuner that allows for FM radio function. The AM loop antenna allows for AM radio function.

Manual tuning

- Connect the FM antenna and the AM loop antenna at the back of the unit.
- Press TUNER.
- Tune a station by pressing TUNER+/-repeatedly until the desired station is found. Alternatively, you can press and hold the same buttons down for about two seconds to activate the automatic search function. In this mode the unit will automatically tune frequencies until it finds a station.
- Repeat step 3 to tune to another radio station.
- Press TUNER to toggle between FM and AM.

Storing radio stations

The unit can store up to 30AM/30FM radio stations in its memory. You can enter every single radio station yourself or the unit can store all available radio stations automatically in ascending order.

Automatic preset programming

- Press TUNER to enter the Tuner mode.
- Press and hold TUNER for two seconds to start automatic preset programming.
- Radio frequencies will be browsed and radio stations stored automatically. When all the available radio stations are stored or all 30AM/30FM memory locations are full, the auto preset programming function will stop.

Manual preset

- Tune to a radio station (see "Manual tuning" for details).
- Press MEMORY. While the Program Preset number is still flashing, input your desired preset number using the numeric buttons, then press MEMORY to store it.

Retrieving preset stations

- Press TUNER to enter the Tuner mode.
- Press CH +/- to search up or down for the preset stations or directly press the numeric buttons.



Tips:

- When the FM station broadcasts Stereo sound is found, ST is displayed.
- When you manually tune into a weak FM station, press AUDIO on remote control to switch from Stereo to Mono mode. This will reduce the background noise.
- If there is any interference, change the antenna's position until ideal sound reception is obtained. TV and other electronic devices could be the cause of interference, so try to position the antenna away from them.
- A weak signal can affect the "Automatic preset programming" function's efficiency. Adjust the antenna for better reception and a more efficient search.

LINE IN/AUX IN/OPTICAL IN

TV, VCR or Set Top Box can be connected to AUX IN / OPTICAL IN input jacks at the back of the unit or LINE IN at the front panel so that sound from the auxiliary component comes into the unit and out through the speakers.

Connecting auxiliary components
Refer to "Getting sound from external sources such as TV" for details on connecting the auxiliary components to the unit.

Selecting LINE IN / AUX IN / OPTICAL mode
Press either SOURCE on the main unit or LINE-IN/ AUX/OPTICAL on the remote control to select LINE IN, AUX IN or OPTICAL mode.

Sound output in AUX IN mode (or LINE IN/OPTICAL mode)

- You may change the Surround Sound setting from 5.1 ch to Stereo mode if you like (see instructions under "Overview of Controls"). However, we recommend you leave the system in full 5.1 CHANNEL surround mode.
- If the AUX IN (or LINE IN/OPTICAL IN) audio signal is mono, you may not receive audio on all speakers.

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Additional Information

Troubleshooting

The unit does not switch on.

- Make sure it is plugged in.
- Press the ON-OFF button on the remote control or the ON/STANDBY button on the front of the unit.
- The device switches off spontaneously.**
 - The device switches off automatically when it is in STOP mode for more than 30 minutes without any user intervention. Switch it on again.
 - It might be impossible to read the disc.
 - Insert the disc with the printed side facing up.
 - Check that the disc can actually be played by this device.
 - Check that the disc's regional code matches the unit's regional code. This unit's regional code is 1.
 - Clean the disc.

- There is no picture.**
 - Check that you have switched on the TV set.
 - Check the connections.
 - Select the AV input assigned to the unit on the TV.
 - Replace the HDMI cable with a better one. Bad HDMI cable can cause data lost.
 - Press HDMI button on remote handset several times to toggle among different HD OUTPUT.

The picture is of poor quality (with snow or lines).

- Check the connections.
- There is no sound or the sound is of poor quality.**
 - Check the connections.
 - Make sure the speakers are connected.
 - Make sure the MUTE function is not on.

- No surround sound.**
 - Check to see if system is actually in 5.1 Channel Surround mode. To do this, press the SURROUND button on the remote control - the front panel display should indicate the current setting (5.1 ch or Stereo). If current setting is Stereo, the surround speakers and center speaker will be inactive. You should switch the system to 5.1 Channel Surround setting (see instructions under "Overview of Controls").

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Limited Warranty

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall **AVC** be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within action must be commenced to enforce any obligation of **AVC** arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to one year from the date of purchase. This limitation does not apply to implied warranties arising under state law.

This warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.

For more information on other products and services, please contact our web site at **www.RCAav.com**

Important: Also keep your "Bill of Sale" as proof of purchase.

Model no. Product name
Type of set
Serial no. Invoice no.
Date purchased Dealer name

FOR SERVICE AND REPAIR, PLEASE VISIT **www.RCAav.com**

Specifications and external appearance are subject to change without notice.

Need more help?
Please visit online help at <http://www.RCAav.com>