RCA

USER MANUAL

RTD615i

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.
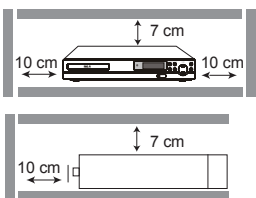• Consult the dealer or an experienced radio / TV technician for help.

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.

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.

7 cm
10 cm   10 cm

10 cm   7 cm

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.

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.

This Home Theater has earned the ENERGY STAR.

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FCC Information

⚡ **CAUTION**
RISK OF ELECTRIC SHOCK
DO NOT OPEN

DO NOT EXPOSE TO RAIN OR MOISTURE
NE PAS EXPOSER A LA PLUIE NI A L HUMIDITE
WARNING SHOCK HAZARD-DO NOT OPEN
AVIS:RISQUE DE CHOC ÉLECTRIQUENE PAS OUVRIR

SEE MARKING ON BACK OF PRODUCT

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.

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

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

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: TO BE COMPLETELY DISCONNECT THE POWER INPUT , THE MAINS PLUG OF APPARATUS SHALL BE DISCONNECTED FROM THE MAINS. THE MAINS PLUG OF APPARATUS SHOULD NOT BE OBSTRUCTED OR SHOULD BE EASILY ACCESSED DURING INTENDED USE.

Service information

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

Main plug is used as the disconnect device, it shall remain operable and should not be obstructed during intended use. To be completely disconnected the apparatus from supply mains, the main plug of the apparatus shall be disconnected from the mains socket outlet completely.

Caution
Invisible laser radiation when open and interlocks defeated. 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.

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.

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Important Information

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.

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.

Illustrations contained in this document are for representation only.

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

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.

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

WARNING
To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. No objects filled with liquids, such as vases, should be placed on the apparatus.

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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.
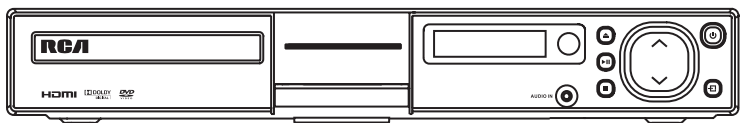• Only use attachments / accessories specified by the manufacturer.
• Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third 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.
• 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.

Additional safety information

• The apparatus shall not be exposed to dripping or splashing and that 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:
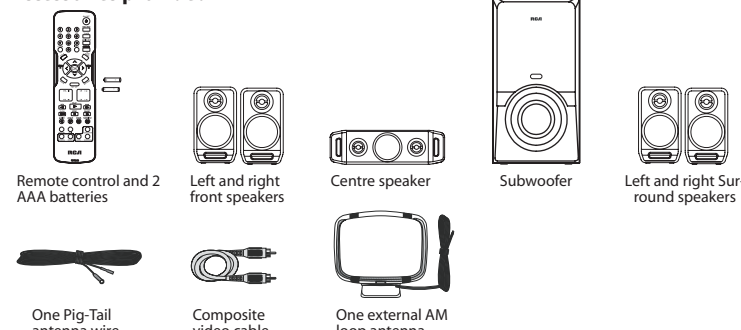
A. Any battery may leak electrolyte if mixed with a different battery type, if inserted incorrectly, or if all batteries are not replaced at the same time.
B. Any battery may leak electrolyte or explode if disposed of in fire or an attempt is made to charge a battery not intended to be recharged.
C. 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.
D. Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

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Connections and Setup

Accessories provided

Remote control and 2 AAA batteries   Left and right front speakers   Centre speaker   Subwoofer   Left and right Surround speakers

One Pig-Tail antenna wire   Composite video cable   One external AM loop antenna
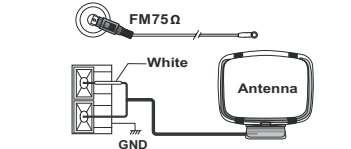
Things to consider before you connect

• 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: 10 cm/4 inches on either side and above the top, and 5 cm/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.
• 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.

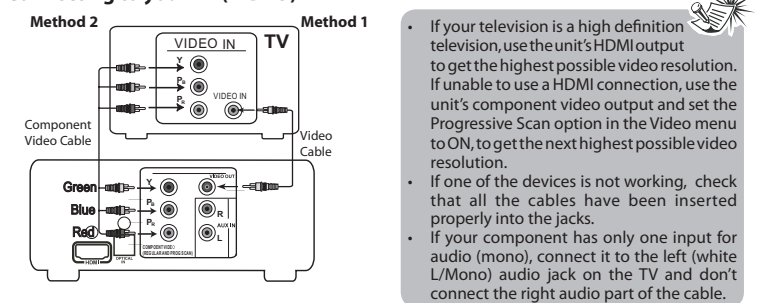### Connecting the antennas

FM75Ω
White
Antenna
GND

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
1. Uncoil the AM antenna wire.
2. Press down on the antennas tab to open the terminal.
3. Make sure the white wire on the AM loop antenna is inserted into the AM loop terminal and the other wire is inserted into the ground loop terminal.
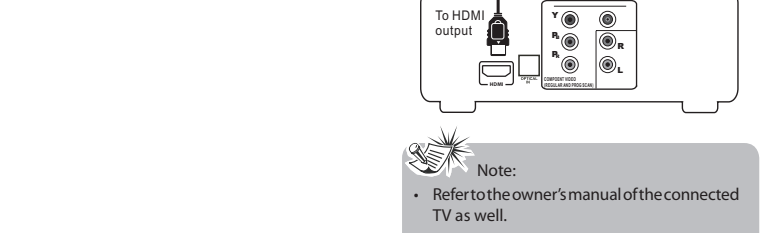
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Connections and Setup

Connecting to your TV (VIDEO)

Method 2   VIDEO IN   TV   Method 1
Component Video Cable
VIDEO IN
Video Cable
Green
Blue
Red

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.
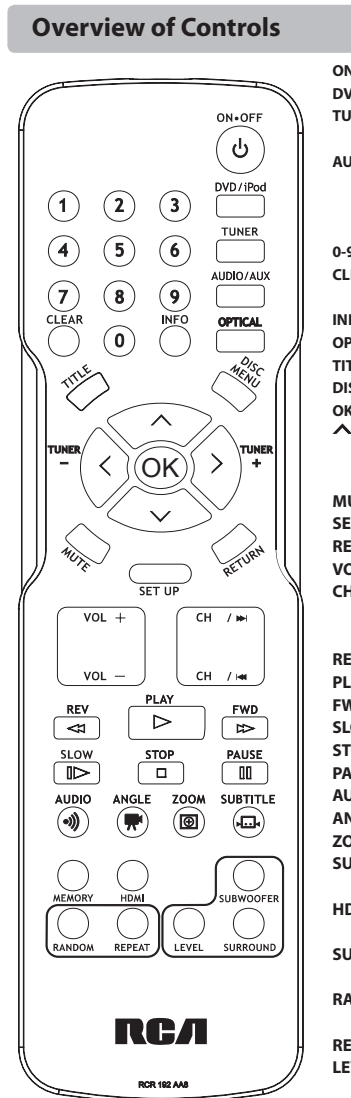
• If your television is a high definition television, use the unit's HDMI output to get the highest possible video resolution. If unable to use a HDMI connection, use the unit's component video output and set the Progressive Scan option in the Video menu to ON, to get the next highest possible video 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.

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.

TV
HDMI cable (not supplied)
To HDMI input

To HDMI output

Note:
• Refer to the owner's manual of the connected TV as well.

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Connections and Setup

Connecting AUDIO from external sources such as TV

Using AUX jack
Connect the AUX jacks from the unit to the AUDIO OUT jacks on VCR, TV, SAT/Cable Box or other component.

TV   VCR   SAT/Cable Box
OR   OR
Red
White
Audio cable

Using AUDIO IN jacks
Connect the Ø3.5mm AUDIO IN jacks on the front panel of the unit to the headphone output on mp3 players.

Notes:
• Ø3.5mm to Ø3.5mm audio cables (not included).
• Press either SOURCE on the main unit or AUDIO/AUX on the remote control to select AUDIO IN mode.
• To listen to the audio input from the connected component, press SOURCE on the main unit or AUDIO/AUX on the remote control to select the AUDIO IN mode.

Suggest using Ø3.5mm AUDIO IN jack for MP3 player and AUX IN jacks for auxiliary equipment such as DVD, VCR or PC.

Digital Optical Input

Connect components capable of outputting Dolby digital (e.g. TV or SAT/Cable Box) or standard PCM (CD) format digital signals. Use a fiber optical cable for this digital audio connection. (cable not included).
Press OPTICAL key on remote control or SOURCE key on main unit to select OPTICAL IN for digital audio output components.

TV   SAT/Cable Box
OR

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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.

Centre Speaker   Front Speakers   Right   Left
Green and Black
Purple and Black
Red and Black   White and Black
Gray and Black
Blue and Black
Subwoofer
Right   Left   Rear Speakers (Surround Sound)
Insert
Press
Release

Note:
When connecting the speakers, make sure the polarities ("+" speaker wire to "+" on the receiver) of speaker wires and terminals match. For example, red wire to red terminal on the receiver. If the cords are reversed, the sound will be distorted. Do not let the speaker wires touch each other, it will damage the speaker.

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Connections and Setup

Positioning speakers

For best results, follow the speaker placement below.

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

Courtesy Dolby Laboratories

1. Left, Right (Front Speakers)
Front speakers carry primarily music and sound effects.

2. Centre
In surround mode, the centre speaker carries most of the dialog as well as music and effects. It should be set between the left and right speakers.

3. 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.

4. Subwoofer
A subwoofer is designed to reproduce powerful low bass effects (explosions, the rumble of spaceships, etc.).

Note:
Front, Centre speakers provided with this unit are magnetically shielded to protect your TV set. It is not recommended to place the surround speakers or subwoofer near the TV set.

Front speaker placement

For best results, follow the speaker placement below.

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 centre speaker directly on top (A) or beneath (B) the TV set.

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Connections and Setup

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 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 front signal, you may find that surround channels seems quieter than actual TV and Movie content. This is because producers use surround for subtle atmospherics and ambience, and only rarely for special effects.

Overview of Controls - Front Panel Controls

Open and close the disc tray.   Adjust the volume.   Switch the unit on and off.

iPod docking compartment   AUDIO IN jack – to connect portable audio players.   Start/pause playing a disc   Stop disc playback.   Select the input sources. Press repeatedly to select:
• DVD/ iPod – to access DVD/ iPod mode.
• TUNER – to listen to the radio.
• AUX (rear) / AUDIO IN (front) – to listen to the audio input from the connected TV, VCR or SAT/Cable Box.
• OPTICAL (rear) - to connect to digital audio components

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Overview of Controls

ON-OFF:	Turn on/off the unit.
DVD/iPod:	Switch between DVD and iPod mode.
TUNER:	Select the TUNER and selects between FM/AM.
AUDIO/AUX:	Select and toggle between the Front AUDIO IN mode and the Rear Auxiliary input (for listening to audio input from connected TV, VCR or SAT/Cable Box).
0-9:	Number entry.
CLEAR:	Quit the current setting manually from the TV screen without saving change.
INFO:	Access the Info menu.
OPTICAL:	Select digital audio input.
TITLE:	Access the title menu of DVD discs.
DISC MENU:	Access the disc menu during playback.
OK:	Confirm your selection.
∧∨<>:	Navigate through the menus. The left and right arrows also tune the radio frequency in the tuner mode.
MUTE:	Mute and restore the sound.
SETUP:	Enter Setup menu.
RETURN:	In DVD mode, return to the previous menu.
VOL +/- :	Adjust the sound volume.
CH+/▶▶∣, CH–/∣◀◀ :	Directly access the next or previous chapter (DVD) or track (CD). Select programmed stations in TUNER mode.
REV:	Start reverse accelerated play.
PLAY:	Start playing a disc.
FWD:	Start forward accelerated play.
SLOW:	Select SLOW motion function.
STOP:	Stop playback.
PAUSE:	Freeze frame, access frame advance.
AUDIO:	Access the audio function.
ANGLE:	Access the camera angle function for DVD disc.
ZOOM:	Access the Zoom function.
SUBTITLE:	Select the subtitle languages or turns subtitle off (if available).
HDMI:	Change video output signals (480p, 720p, 1080i or1080p).
SUBWOOFER:	Select among subwoofer output levels (soft/balance/strong/powerful).
RANDOM:	Turn on/off random playback on CDDA/jpeg discs.
REPEAT:	Access the repeat function.
LEVEL:	Toggle channels for different level settings. Adjust the value using VOL +/-.

ON▪OFF
DVD/iPod
TUNER
AUDIO/AUX
OPTICAL
CLEAR   INFO
TITLE
DISC MENU
OK
TUNER   TUNER
VOL   CH
VOL   CH
MUTE   SET UP   RETURN
REV   PLAY   FWD
SLOW   STOP   PAUSE
AUDIO   ANGLE   ZOOM   SUBTITLE
MEMORY   HDMI   SUBWOOFER
RANDOM   REPEAT   LEVEL   SURROUND

RCA

RCR 103 AAA
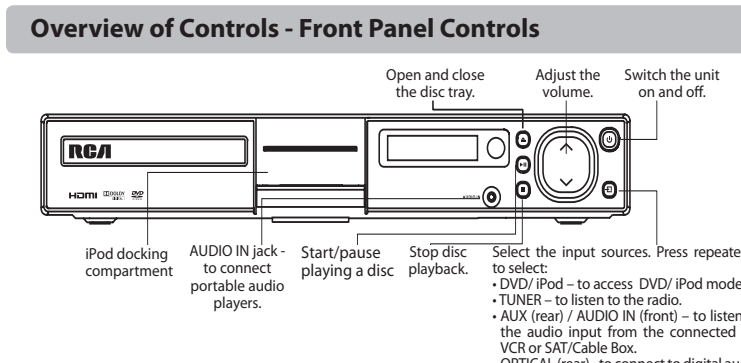
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Overview of Controls

SURROUND: Changes the Surround sound setting. In DVD mode, press the button to select between 5.1 ch and STEREO modes. In the AUDIO/ AUX mode (analog input), press the button to select between 5.1 CHANNEL and STEREO modes. (Refer to details on "Sound Enhancement Systems" under "additional information" section below.)

Remote control functions in tuner mode

TUNER:	Select the TUNER and switch between FM/AM.
VOL+/–:	Adjust the sound volume.
MUTE:	Mute and restore the sound.
TUNER +/–:	Tune down and up the radio frequencies.
MEMORY:	Store a station.
CH+/▶▶∣/CH–/∣◀◀:	Select programmed stations.
AUDIO:	Select between Stereo and Mono mode for Tuner (FM).

Using remote control to navigate through the on-screen menus

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

Note:
Insert 2 "AAA" batteries into the remote control prior to use.

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Playing Discs - Basic Functions

Compatible discs
• DVD
• 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

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

Loading disc

1. Press ⏏ on the front panel to open the disc tray.
2. Place a disc onto the disc tray with the label side up.
3. 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

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

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Basic Playback Operations

Variable slow motion

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

X1/2 → SF X1/3 → SF X1/4 → SF X1/5
PLAY ← SF X1/7 ← SF X1/6

3. Press PLAY to resume normal playback.

Changing chapter/track

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

Zoom

1. 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.
2. Move from one area to another (pan) using the buttons.
3. To turn ZOOM off, press ZOOM until you get to the ZOOM OFF option.

Types of menus

• Disc menu — The appearance and contents of this menu varies according to the type of disc you have inserted. It is separate from the Setup menu.
• Info menu — The unit's Info menu appears at the top of the screen while the disc is playing. Press INFO on the remote control to switch the Info menu on or off.

 ▾   T1   1/10   ▯▯   1/16   ▯▯   00 : 13 : 07

• Setup menu — Press SETUP to access this menu.

Video
HDMI Setup
TV Type
Default

General Setup

Note:
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.

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The Info Menu

The Info Menu

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

Note: Many discs may have only one title.

Time display

To access the Time Display, press INFO on the remote control. Press the up/down buttons repeatedly to display:
DVD: Chapter Time Elapsed, Chapter Time Remain, Title Time Elapsed and Title Time Remain.

Audio CD: Track Time Elapsed, Track time Remain, Disc Time Elapsed and Disc Time Remain.

To directly access a location on the disc which does not correspond to the start of a title or chapter, press INFO once and press OK, highlight the Time Display icon using the buttons, then enter a time with the number buttons (hh:mm:ss) and press OK.

Note: Time display function may not be available on all discs.

Title/chapter (DVD)/track (audio CD)

To directly access a title, chapter (DVD) or a track (audio CD), press INFO, press OK.
Select the Title (TT), Track (TRK) or Chapter (CH) icon and enter a number directly with the numeric buttons. Press OK again to confirm.

Note: Many discs only have one title.

Note:
INVALID KEY will be displayed if the function you select is not available.

DVD Info Display
Title   Chapter   Time display
TT   1/10   1/16   00 : 13 : 07
Audio language   Subtitles   Camera angle
5.1CH   1/2   1/8
Play mode   Bookmark   Sleep timer
PLAYMODE   BOOKMARK   SLEEP

CD Info Display
Track   Time display
TRK   1/10   00 : 13 : 07
Play mode   Bookmark   Sleep timer
PLAYMODE   BOOKMARK   SLEEP

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

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The Info Menu

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

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

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

Play mode (all discs except jpeg)

1. While the disc is playing, press the INFO button twice for CD and three times for DVD.
2. Select the Play Mode icon using the left/ right buttons.
3. Use the up/down 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.
4. To stop repeat playback, select the Play Mode icon and use the up/down buttons to choose the Standard option.

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.
1. 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 option.
2. Press OK. The Program screen is displayed.
3. The first spot in the list is highlighted. Use the number buttons on the remote control to enter a track number.
4. Use the buttons to move to the next spot in the list. Enter the next track number.
5. Continue entering tracks until you have completed your list.
6. Highlight the Play option at the bottom of the screen and press OK or press PLAY to start play-back. The program list will play in the order you programmed it.

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

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The Info Menu

Sleep

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

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

Introscan (CD)

This option plays the first ten seconds of each track on a CD.
1. Press the INFO button twice, then select the Play mode icon with the left/right buttons.
2. Press the up/down buttons to select the INTRO option and press OK to start IntroScan.
3. Press STOP to stop Introscan, and press PLAY to resume normal playback.

Bookmark (DVD and audio CD)

1. 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.
2. 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.
3. To start playback from a bookmark, press the PLAY button on the remote control.
4. To delete a bookmark, highlight it and press CLEAR.

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

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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

1. Connect the FM antenna and the AM loop antenna at the back of the unit.
2. Press TUNER.
3. 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 one second to activate the automatic search function. In this mode the unit will automatically tune frequencies until it finds a station.
4. Repeat step 3 to tune to another radio station.
5. Press TUNER to toggle between FM and AM.

Storing radio stations

The unit can store up to 60 radio stations (AM/FM each 30 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

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

Manual preset

1. Tune to a radio station (see "Manual tuning" for details).
2. 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

1. Press TUNER to enter the Tuner mode.
2. Press CH+/►►I , CH–/I◄◄ to search up or down for the preset stations or directly press the numeric buttons.

> **Tips:**
> - When a strong FM stereo broadcasts is tuned, 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.
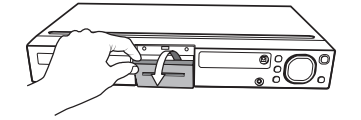
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Radio

iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

Compatible iPod Types:

- iPod nano (1st generation) 1GB, 2GB, 4GB
- iPod nano (2nd generation) 2GB, 4GB, 8GB
- iPod nano 3rd generation (video) 4GB, 8GB
- iPod nano 4rd generation (video) 8GB, 16GB
- iPod 5th generation (video) 30GB, 60GB, 80GB
- iPod classic 80GB, 120GB, 160GB
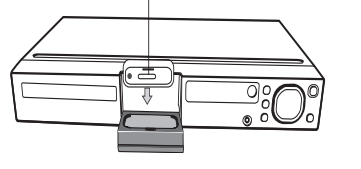- iPod touch 8GB, 16GB, 32GB

Using an Adaptor to Connecting Your iPod

1. Open the iPod docking compartment.

2. Choose the iPod Dock Adaptor that fits your iPod (Dock adapters are not included with this product, please use the one that was included with your iPod.).
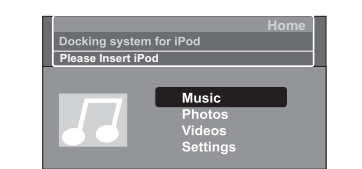
   iPod Dock Adaptor (not included)

3. Insert your iPod Dock Adaptor into the dock until it sits firmly in place.

-18- (this segment continues into the iPod section below)

iPod

4. Turn on the unit, press the DVD/iPod button to select iPOD mode. Your iPod will be connected automatically, following screen appears.

Docking system for iPod
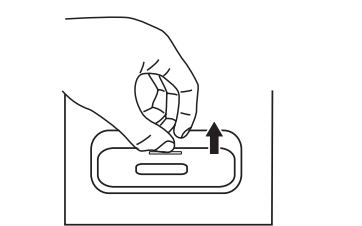Please Insert iPod

Home
Music
Photos
Videos
Settings

Warning: To prevent damage to the unit and/or your iPod, connect or remove your iPod when the unit is powered off or the unit is not in iPod mode.

Caution: Due to the iPod limitation, not all functions of some iPod models can be controlled via the remote control of this unit. If necessary, operate on your iPod directly.

Removing the iPod Dock Adaptor

1. Remove the iPod Dock Adaptor as shown in the figure to the right.

2. Replace it with another one you need.

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iPod

Playing Music

1. In iPod Home menu, use the ∧, ∨ button to select Music and press the OK button.
2. Use the ∧, ∨ and OK buttons to navigate the iPod menu lists and select a song, press the OK button to begin playback.
   (If necessary, operate on your iPod directly.) For iPod Touch, touch the iPod screen to begin playback.)
3. Press the ❚❚ PAUSE button to pause playback, press the ▷ PLAY button to resume play-back.
4. Press the **CH–/I◄◄** button to skip to the current / previous song.
5. Press the **CH+/►►I** button to skip to the next song.
6. Press the ◁◁ REV / ▷▷ FWD button to begin fast reverse / forward, press the ▷ PLAY button to resume normal playback.
7. Press the RETURN button to go back to the previous menu.

Playing Videos

1. In iPod Home menu, use the ∧, ∨ button to select Videos and press the OK button.
2. Use the ∧, ∨ and OK buttons to navigate the iPod menu lists and select a video, press the OK button to begin playback.
   (If necessary, operate on your iPod directly. For iPod Touch, touch the iPod screen to begin playback.)
3. Press the ❚❚ PAUSE button to pause playback, press the ▷ PLAY button to resume playback.
4. Press the ◁◁ REV / ▷▷ FWD button to begin fast reverse / forward, press the ▷ PLAY button to resume normal playback.
5. Press the RETURN button to go back to the previous menu, then you can select another video to play.

> **Note:**
> Make sure "TV Out" in the setting of your iPod is set to "On".

-19- (continues into iPod below)

iPod

Playing Photos

1. In iPod Home menu, use the ∧, ∨ button to select Photos and press the OK button.
2. Use the ∧, ∨ and OK buttons to navigate the iPod menu lists and select a photo, press the OK button to begin playback.
   (If necessary, operate on your iPod directly.)
3. Press the ❚❚ PAUSE button to pause playback.
4. Press the CH+/►►I / CH–/I◄◄ button to skip to the previous / next photo.
5. Press the RETURN button to go back to the previous menu.

Using an iPod Touch to view photos

1. In iPod Home menu, use the ∧, ∨ button to select Photos and press the OK button. Touch the "Photos" selection on iPod panel, then select the photo your prefer.

2. Touch the "▷" to confirm the photo.

   Step 1

   Step 2

iPod Settings

1. In iPod Home menu, use the ∧, ∨ button to select Settings and press OK button.
2. Use the ∧, ∨ and OK buttons to adjust Shuffle, Repeat and Language settings.

Using an iPod Classic / iPod Nano to view photos

1. In iPod Home menu, use the ∧, ∨ button to select Photos and press the OK button.
2. Use the ∧, ∨ and OK buttons to navigate the iPod menu lists and select a photo, press the OK button twice to begin playback.
   (If necessary, operate on your iPod directly.)
3. Press the OK button twice to activate photo showing to the TV screen.

   Step 1   Step 2

   Step 3

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AUDIO IN / AUX IN

TV, VCR or SAT/Cable Box can be connected to AUX input jacks at the back of the unit or AUDIO IN at the rear panel so that sound from the auxiliary component comes into the unit and out through the speakers.

Connecting auxiliary components

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

Selecting AUDIO IN / AUX IN mode

Press either SOURCE on the main unit or AUDIO / AUX on the remote control to select AUX IN or AUDIO IN mode.

Sound output in Aux-In mode

- You may change the surround setting by pressing SURROUND to select between Dolby ProLogic and stereo modes.
- If the auxiliary audio signal is mono, there is no output from speakers in either Dolby ProLogic or Stereo mode.

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Jpeg Files

Displaying jpeg files

Jpeg files are image files. Make sure that they have a resolution of less than 2 megapixels.
1. Open the disc tray.
2. 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.
3. Select a folder using the up/down buttons on the remote control, then press the left button to move to the picture icons at the bottom of the screen. Use the left/right buttons to select picture mode.
4. Press the up button to move to the file list on the right side of the screen. Use the up/down buttons to select a file. Press OK or PLAY to start playback.
- jpeg file: 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.

During the slide show you can use the left/right buttons to rotate the picture, the up button to rotate the image vertically, the down button to rotate the image horizontally. Use the ZOOM button to magnify the picture. Use the CH–/I◄◄ button to go back to the previous picture or the CH+/►►I button to go to the next one, and the STOP button to interrupt the slide show and display the disc's contents.

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Jpeg Files

5. Press INFO to display the Info menu during play back. Press the up/down button to select a play mode, and press OK.
6. When the unit has played all the files, the slide show stops and the disc's contents are displayed again.
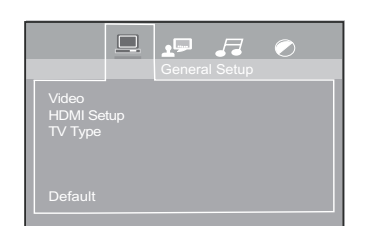7. Press STOP to end playback.

> **Note:**
> - 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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The Setup Menu

There are four options in the main setup menu: General Setup, Language Setup, Audio Setup and Video Setup.
Press SETUP to bring up the main menu. Select one of the menu icons across the top of the screen using the left/right buttons. The menu's options are displayed on the left side of the screen. Press the right button to move to the option's choices on the right. Press SETUP if you want to exit setup.

General Setup

Video
HDMI Setup
TV Type

Default

Video

Progressive Scan Output provides higher quality video. Turn on Progressive Scan if you're using the Component Video jacks of the unit to connect a TV or monitor compatible with a progressive scan signal.
Select P-Scan YPbPr and press OK to activate Progressive Scan.

HDMI Setup

This lets you select the resolution of the player's output according to the connected TV.
- Supported HD mode: 480p, 720p, 1080i and 1080p.

-21- (continues into Setup below)

The Setup Menu

TV Type

Depending on the format of the DVD disc, you can choose the picture format (aspect ratio) best suited to the format of your TV screen:
- 4:3 PS: reproduces a 4:3 picture without distortion.
- 4:3 LB: gives best reproduction of pictures recorded in this format (i.e. with horizontal bands at the top and bottom of the screen) or in 16:9.
- 16:9 (windscreen): reproduces 16:9 format films in full on a 16x9 screen.

Default

This option allows you to return the unit's settings to the original factory settings. Any changes you have made to the unit's settings will be reverted back to the original settings.
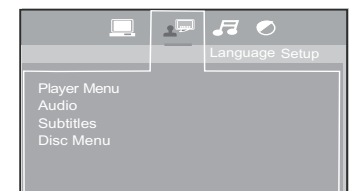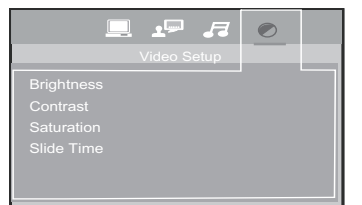
> **IMPORTANT!**
> Once Progressive Scan has been activated, an image will only be visible on a progressive scan TV or monitor. If you choose this option and you don't have a progressive scan TV or monitor, you may get a picture with incorrect color or no color.

-22- (continues into Setup below)

The Setup Menu

Language Setup

With this menu, you can set the language for unit menus, dialog, subtitles and the disc menus.
If you chose "English" during initial set-up, any menus generated by the disc are in English, and so is the language of the dialogs (if this language is available on the disc).

Player Menu
Audio
Subtitles
Disc Menu

Language Setup

1. Select the Language Setup icon in the main menu using the left/right buttons.
2. Select one of the options using the up/ down buttons.
3. Press the right button to move to the language choices.
4. Use the up/down buttons to highlight the language of your choice and press OK.

Player Menu

Select the language of player menus and press OK.

Audio

Select the dialog language using up/down buttons and press OK.
To change the Audio language during playback, press INFO twice for DVD and use the left/right buttons to highlight the Audio icon.
Press the up/down buttons or AUDIO on the remote control to select audio language.

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The Setup Menu

Subtitles

Select the subtitle language using up/down buttons and press OK.
To change the language of the subtitles during playback, press INFO twice for DVD and use the left/right buttons to highlight the Subtitle icon.
Press the up/down buttons or the SUBTITLE button on the remote control to select a subtitle language.

Disc Menu

To change the language of the disc menus, select the language using the up/down buttons and press OK.
The language you select will only be displayed if the disc is programmed with that language.

> **Notes:**
> - If the selected language is not available on a disc, the disc's language will be used instead.
> - If the language chosen is available, it is automatically selected when you display the subtitles or press SUBTITLE on the remote control. Otherwise, the subtitle language indicated on the disc is selected.

-23- (continues into Setup below)

The Setup Menu

Audio Setup

You can adapt your unit to other equipment and access specific functions with the Audio Setup menu.
1. Select the Audio Setup icon in the main menu using the left/right buttons.
2. Select an option using the up/down arrow buttons. Press the right arrow to move to the option's choices.

Night Mode
Centre Delay
Rear Delay
Test Tone

Audio Setup

Night Mode

You can use this function to control the different sound levels via dynamic compression. It improves the quality of the sound track at a low volume, and quiets the loudest sounds. You can choose between Quiet, Moderate or Off.

Channel Delay

Basic settings have been preset for the speakers included with your unit. However, to suit the acoustic conditions in your listening room and to make the sound more effective, you may need to delay the signal coming from some of the speakers. Channel delay compensates for centre or surround speakers that are closer to the listening position than the front speakers.
1. Highlight a channel delay option using the up/ down buttons.
   - Centre Delay
   - Rear Delay
2. Press the right button to move to the default distance.
3. Press the up/down buttons to adjust the distance.

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The Setup Menu

Test Tone

This function is used to test and adjust the volume level (gain) for each individual speaker channel. Use CH+/►►I, CH–/I◄◄ button to select the speaker channel you wish to test and adjust. You'll hear a test tone coming from the speaker you select. Use the VOL+/- buttons to adjust the level to your desired setting. Press OK button to exit this function.

Video Setup

1. Select the Video icon in the main menu using the left/right buttons.
2. Select a menu option using the up/down buttons and press OK.

Brightness
Contrast
Saturation
Slide Time

Video Setup

Slide Time

The Slide Time option lets you select the amount of time a picture is displayed in a slide show. The choices are 5 seconds, 10 seconds or 15 seconds.

-24- (continues into Troubleshooting below)

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 devices 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 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. A bad HDMI cable can cause loss of video.
- Press HDMI key 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 the speaker configuration in the Setup menu (See Positioning speakers or Audio Set-up).

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Troubleshooting

iPod does not respond to this unit.
- Remove your iPod from the docking bracket and check for obstruction on the connectors in the dock and on your iPod.
- Make sure that your iPod works properly before docking into the unit. Make sure the software of iPod is the latest. Please refer to your iPod manual for details.

I can't find my file in the jpeg listing.
- Make sure the file name is valid.

The remote control does not work or works only intermittently.
- Check that batteries are inserted or change them.
- Aim the remote control at the unit. The infrared beam must not be blocked or interrupted.
- Check that the remote control is configured to control the device you are trying to operate with it.

The subtitles do not appear.
- Check that the DVD disc provides subtitles.
- Refer to the section on how to display subtitles.

The disc menu language is not the correct one.
- The disc menu language has not been set up.
- The language of your choice is not available on the disc.

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Additional Information

Precautions

Use

- If your unit has been stored in a cool place for any length of time, during a journey for example, wait for about 2 hours before using it.
- The openings located on the top and bottom are for ventilation and must not be obstructed.
- During thunderstorms, we recommend that you isolate the unit from the electrical supply so that it is not damaged by electrical or electromagnetic surges.
- This unit is designed for continuous use. Switching off the unit to standby mode does not disconnect it from the mains supply. To completely isolate the equipment, remove the plug from the mains jack as some components remain connected to the electrical supply.
- If you notice any burning or smoke, disconnect the unit immediately to avoid any risk of electrocution.
- Do not attempt to look inside the unit through the disk tray opening or any other opening. You may be electrocuted or exposed to laser radiation.
- 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.

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Additional Information

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 servicer or service centre.

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.

Compatible Formats

In order to ensure playback, discs must conform with DVD or CD standards. This unit may not play some recordings or files due to differences in recording formats, software used and disc types.

DVD-Video

Digital video discs - 12 cm, single or double sided, single or dual layer. DVDs are high density optical discs on which high quality picture and audio are recorded by means of digital signals.

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

Most DVD-R and DVD+R (one recording only), DVD-RW and DVD+RW discs (rewritable), depending on the DVD writer and discs used. Recordings using DVD-R and DVD-RW discs must be made in Video DVD mode. Recordings using DVD+RW discs must be made in accordance with the specifications for DVD+RW discs with a 4.7 GB capacity.

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Additional Information

Audio CDs

Audio CDs (12 cm).

CD-R, CD-RW

Most CD-R (one recording only) and CD-RW discs (rewritable).

CD-Rs written during a multisession recording can be played, provided that the session has ended before the disc is played (depending on the write software).

However, depending on the condition of the CD-writer, computer and the disc used, you may find that not all discs will play. When playing a CD-R disc, it is normal for the unit to take up to 60 seconds to recognize the disc before starting to play.

If the disc is not recognized after a period of 120 seconds, remove the disc, and insert it again.

- Do not use its full capacity.
- CD-Rs should be preferably used instead of CD-RWs (rewritable CDs) as, in certain cases, CD-RW playback may be faulty.
- Use reliable, good-quality CD write software.
- Close all other applications on the computer to ensure reliable CD-R disc recording.

Jpeg files

CD-R and CD-RW with jpeg files. Certain jpeg files, including progressive jpeg files, cannot be read by this unit.
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 thought the files are shown as jpeg images on your computer.

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Additional Information

Sound Enhancement Systems

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

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

Dolby Pro Logic II

The Pro Logic mode uses the built-in circuit to steer the Left, Centre, 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. Different from Dolby ProLogic in that only four channels (Front Left, Front Right, Centre and Rear) are used, 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.

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Technical Specifications:

Amplifier Section:
RMS Output Power: Dolby Digital Mode with 10%
Total Harmonic Distortion
Rear Channels: 90 Watts per channel (1kH, 8Ω)
Front Channels: 90 Watts per channel (1kHz, 8Ω)
Centre Channel: 120 Watts per channel(1kHz, 6Ω)
Subwoofer Channel: 120 Watts (100Hz, 6Ω)
Total RMS Output Power, Dolby Digital Mode:
600 Watts

Muting Attenuation: 70 dB
Frequency Response: 200Hz – 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.
Signal to Noise: 62dB(stereo) / 65dB(mono)
IF Rejection: 70dB

Dimensions (H x W x D mm) :
Unit: 66.6 x 430 x 232.4
Front Speakers: 143 x 80.5 x 93
Centre Speaker: 80.5 x 272 x 73
Rear Speakers: 143 x 80.5 x 93
Subwoofer: 355 x 195 x 340

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http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com