

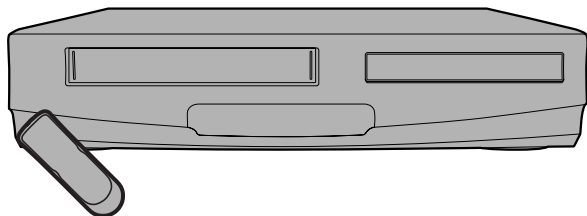
Owner's Manual

Please read before using this equipment.

SYLVANIA

DVD/CD Player with Video Cassette Recorder

CDVC90DP

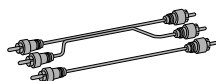


Supplied Accessory

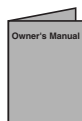
- Remote control (NB109UD or NB159UD) with two AA batteries
- RF cable (WPZ0901TM002)



- Audio/Video cables (WPZ0102TM015 or WPZ0102LTE01)



- Owner's Manual (OVMN04015)



If you need additional operating assistance after reading this owner's manual or to order replacement accessories, please call
TOLL FREE : 1-800-287-4871

Basic TV Connection

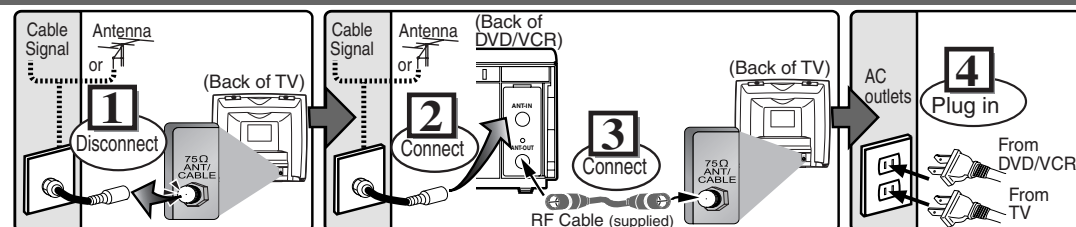


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Precautions

Setup

VCR Functions

DVD Functions

Information

Precautions

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:

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



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Laser Safety

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

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

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.

LOCATION: INSIDE, NEAR THE DECK MECHANISM.

FCC WARNING- This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

RADIO-TV INTERFERENCE

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:

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

This Class B digital apparatus complies with Canadian ICES-003.

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

ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

Make your contribution to the environment!!!

- Used up batteries do not belong in the dust bin.
- You can dispose of them at a collection point for used up batteries or special waste. Contact your council for details.



For Customer Use:


Read carefully the information located at the back of this unit and enter below the Serial No. Retain this information for future reference.

Model No. _____

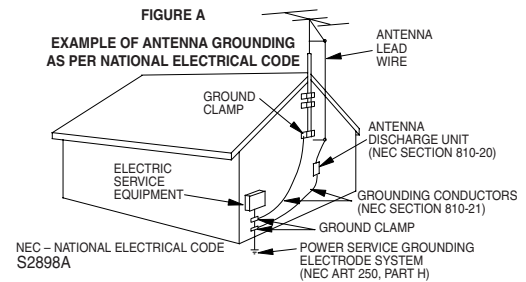
Serial No. _____

Important Safeguards

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.
6. Attachments - Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
7. Water and Moisture- Do not use this video product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories - Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING
(Symbol provided by RETAC)

SS125A
9. Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. Power Sources - This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
11. Grounding or Polarization - This video product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
12. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with regard to

proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)



14. Lightning - For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.
15. Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
16. Overloading - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
17. Object and Liquid Entry - Never push objects of any kind into this video product through any openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.
18. Servicing - Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. Damage Requiring Service - Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged.
 - b. If liquid has been spilled, or objects have fallen into the video product.
 - c. If the video product has been exposed to rain or water.
 - d. If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
 - e. If the video product has been dropped or damaged in any way.
 - f. When the video product exhibits a distinct change in performance this indicates a need for service.
20. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
21. Safety Check - Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.
22. Heat - This video product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Installation Location

For safety and optimum performance of this unit:

- Install the unit in a horizontal and stable position. Do not place anything directly on top of the unit. Do not place the unit directly on top of the TV.
- Shield it from direct sunlight and keep it away from sources of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields.

Avoid the Hazards of Electrical Shock and Fire

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from AC wall outlet. Grasp it by the plug.
- If, by accident, water is spilled on this unit, unplug the power cord immediately and take the unit to an Authorized Service Center for servicing. Call 1-800-287-4871 to find out where the nearest Authorized Service Center is located.
- Do not put your fingers or objects into the DVD/VCR cassette holder.

Moisture Condensation Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. Do not use this unit at least for 2 hours until its inside gets dry.

About Copyright

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. 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 and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Notice for progressive scan outputs

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding our TV set compatibility with this model 525p DVD player, please contact our customer service center.

Symbol Used in This Manual

The following symbols appear in some headings and notes in this manual.



: Description refers to playback or recording of video cassette tapes.



: Description refers to playback of DVD-Video discs.



: Description refers to playback of Audio CDs.



: Description refers to playback of MP3 files.

Maintenance

SERVICING

- Please refer to relevant topics on the Troubleshooting Guide on page 23 before returning the product.
- When this unit become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power plug, and please call our help line mentioned on the front page to locate an Authorized Service Center.

CLEANING THE CABINET

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use alcohol, solvents or any other abrasive liquids and/or materials.

CLEANING DISCS

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analogue records.

CLEANING THE DISC LENS

- If this unit still does not perform properly although you refer to the relevant sections and to "TROUBLESHOOTING GUIDE" in this Owner's Manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

DISC HANDLING

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.

AUTO HEAD CLEANING

- Automatically cleans video heads as you insert or remove a cassette, so you can see a clearer picture.
- Playback picture may become blurred or interrupted while the TV program reception is clear. Dirt accumulated on the video heads after a long period of use, or the usage of rental or worn tapes can cause this problem. If a streaky or snowy picture appears during playback, the video heads in your DVD/VCR may need to be cleaned.

1. Please visit your local Audio/Video store and purchase a good quality VHS Video Head Cleaner.
2. If a Video Head Cleaner does not solve the problem, please call our help line mentioned on the front page to locate an Authorized Service Center.

NOTES:

- Remember to read the instructions included with the video head cleaner before use.
- Clean video heads only when problems occur.

Note to CATV system installer

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

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









Setup

About the Video Cassettes and Discs

Playable Video Cassettes

Use only cassettes marked **VHS** with this DVD/VCR.

Playable Discs

Playable discs	Mark (logo)	Region code	Recorded signals	Disc size	Disc types
DVD-Video * 1,2,4,6		 or 	Digital video (MPEG2)	12 cm or 8cm	 <div> Example <div> <div>Title 1</div> <div>Title 2</div> </div> <div> <div>Chapter 1</div> <div>Chapter 2</div> <div>Chapter 3</div> <div>Chapter 4</div> <div>Chapter 1</div> <div>Chapter 2</div> </div> </div>
DVD-R DVD-RW * 1,2,3,4,5,6	 	-			
DVD+R DVD+RW * 1,2,3,4,5,6	 DVD+ReWritable	-			
Audio CD * 4,6		-	Digital audio or MP3	12 cm or 8cm	Digital audio <div> Example <div>Track 1</div> <div>Track 2</div> <div>Track 3</div> <div>Track 4</div> <div>Track 5</div> <div>Track 6</div> </div>

If you cannot play back a disc which bears one of the marks above, check the following notes.

- *1: This unit conforms to the NTSC color system. Discs recorded in other color systems such as PAL cannot be played back.
- *2: Certain DVD-Video discs do not operate as described in this manual due to the intentions of the disc's producers.
- *3: Only the discs which have been recorded in the video format and finalized can be played back.
Discs unfinalized or recorded in the video recording format cannot be played back.
Depending on the recording status of a disc, the disc may not be played back at all or normally (the picture or sound may not be smooth, etc.).
- *4: Scratched or stained discs may not be played back.
- *5: Some discs cannot be played back because of incompatible recording conditions, characteristics of the recorder or special properties of discs.
- *6: You can play back discs which bear the marks above. If you use nonstandardized discs, this unit may not play them back. Even if they are played back, the sound or video quality will be compromised.

Unplayable Discs

- On the following discs, only the sound can be heard (picture cannot be viewed).
CDV
CD-G
- NEVER play back the following discs. Otherwise, malfunction may result!
DVD-RAM
CD-I
Photo CD
DVD with region codes other than 1 or ALL
DTS-CD
DVD-ROM for personal computers
CD-ROM for personal computers
- On the following disc, the sound MAY NOT be heard.
Super Audio CD
Note: Only the sound recorded on the normal CD layer can be delivered.
The sound recorded on the high density Super Audio CD layer cannot be delivered.
- Any other discs without compatibility indications.

Connections

Please refer to "Basic TV Connection" on the front page before you use this unit.

RF Output Channel

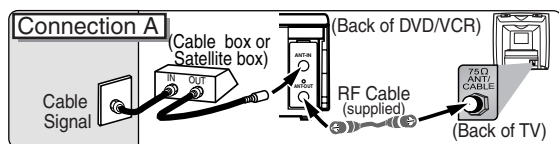
If channel 3 is already occupied for broadcasting,

- 1) Set your TV to channel 4.
- 2) Insert a pre-recorded tape into this unit.
- 3) Press the OUTPUT button on the DVD/VCR so that the VCR OUTPUT light is lit.
• If "VCR" light does not appear on the display of this unit, press the VCR/TV button on the remote control.
- 4) Press the PLAY button once.
- 5) After a few seconds, press the PLAY button on the DVD/VCR for 3 seconds.
• The RF output channel will change to channel 4 from channel 3 and you will see a playback picture.
In this case, "ch04" will appear on the front panel.
• When a picture does not appear on the TV screen, repeat step [4].
- 6) Press the STOP button to stop playback.

Tips

- The RF output channel may not change when you adjust tracking during playback. In this case, stop the playback, and start the playback again. After that, press the PLAY button on the DVD/VCR for 3 seconds again.

Tips for Cable Box or Satellite Box

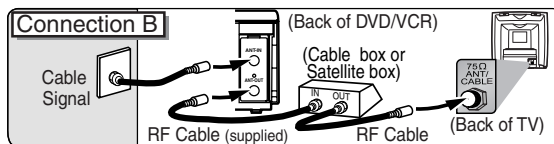


Select this connection when you want to view or record a scrambled channel. With this connection, channels cannot be changed on the DVD/VCR. You can view or record **ONLY** the channels you have selected on the cable box or the satellite box.

- While you are recording, only the recorded channel can be viewed.

To select channels of the cable box or satellite box

- 1) Turn on the DVD/VCR by pressing the **POWER** button, and then, press the **VCR/TV** button. The "POWER" and "VCR" lights on the front panel will appear. Then, press the **CHANNEL** buttons to select channel 3 or 4 (the same channel as the output channel of the cable box or satellite box).
- If you use the channel 4, you need to change the DVD/VCR's RF output to channel 4. Refer to "RF Output Channel".
- 2) At the TV, select channel 3 or 4 (the same channel as you have selected at step 1).
- 3) At the cable box or satellite box, select the channel you want to view or record.



Select this connection when you want to change channels on the DVD/VCR. With this connection, you may watch one channel while recording another.

- You may not view or record a scrambled channel.

To select channels of the cable box or satellite box

- 1) At the cable box or satellite box, select channel 3 or 4 (the same channel as the DVD/VCR's RF output channel.)
- Refer to "RF Output Channel".
- 2) At the TV, select the same channel as the output channel (3 or 4) of the cable box or satellite box.
- 3) Turn on the DVD/VCR by pressing the **POWER** button, and then, press the **VCR/TV** button. The "POWER" and "VCR" lights on the front panel will appear. Then, select the channel you want to view or record.

To play back a tape

Follow the steps 1) to 2) above. Then, play back a tape.

- Refer to "Playback" on page 11.

To view one channel while recording another

- 1) While you are recording on the DVD/VCR, press the **VCR/TV** button so that the "VCR" light disappears on the DVD/VCR.
- 2) At the cable box or satellite box, select the channel you want to view.

Connection to an Audio System

Method 1

Stereo system

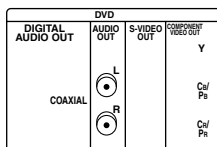
Analog audio input jacks

AUDIO

Audio cable
(supplied)

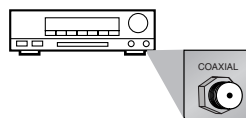
(Analog)
AUDIO OUT

or



Method 2

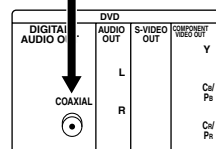
Dolby Digital decoder, MD deck or DAT deck



Digital audio
input jack

Audio Coaxial
Digital cable
(commercially
available)

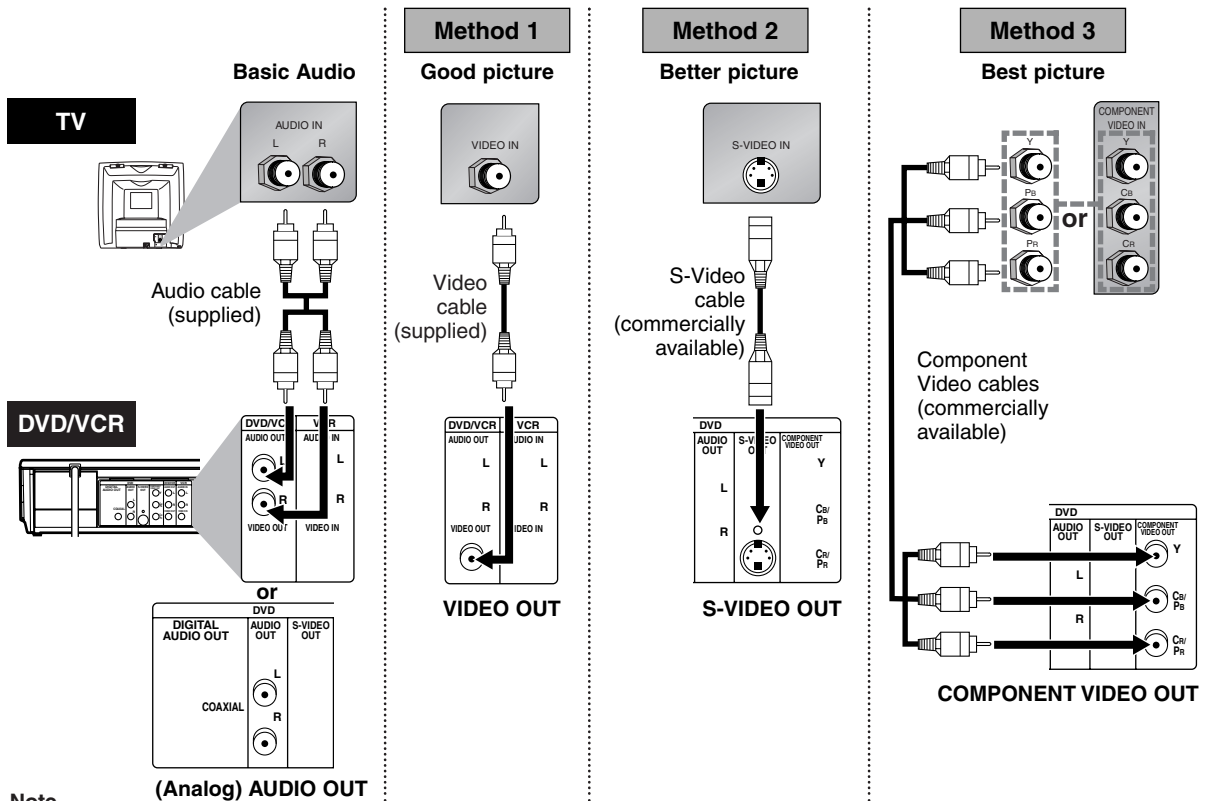
DIGITAL
AUDIO OUT



Note

- If output is Dolby Digital encoded audio, connect to a Dolby Digital decoder, and set "DOLBY DIGITAL" to "ON" in the AUDIO menu. (Refer to page 21.)
- The audio source on a disc in a Dolby Digital 5.1 channel surround format cannot be recorded as digital sound by an MD or DAT deck.
- Unless connected to a Dolby Digital decoder, set "DOLBY DIGITAL" to "OFF" in the AUDIO menu. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers. (Refer to page 21.)
- Set "DOLBY DIGITAL" to "OFF" in the AUDIO menu before connecting to an MD deck or DAT deck. (Refer to page 21.)
- By hooking this unit up to a Multi-channel Dolby Digital decoder, you can enjoy high-quality 5.1ch Dolby Digital surround sound as heard in the movie theaters.

Connection to a TV

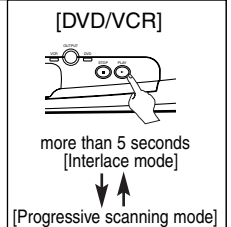


If your TV is compatible with progressive scanning 525p (480p) and you want to enjoy that high quality picture:

You must select the connection Method 3 above and progressive scanning mode. To set the mode, press and hold the PLAY button on the front panel for more than 5 seconds, so that "P.SCAN" will appear on the display of this unit. (The progressive scanning is not available in the VCR mode.)

If your TV is not compatible with progressive scanning:

Use this unit in interlace mode. Make sure that no "P.SCAN" is on the display of this unit. If not, press and hold the PLAY button on this unit for more than 5 seconds, so that "P.SCAN" on the display of this unit will disappear.



Front & Rear Terminals

DVD ANALOG AUDIO OUT jacks

Connect the supplied audio cables here through the Audio In jacks of a television or other audio equipment. (DVD only)

DVD/VCR AUDIO OUT jacks

Connect the supplied audio cables here through the audio In jacks of a television or other audio equipment.

AUDIO IN jacks

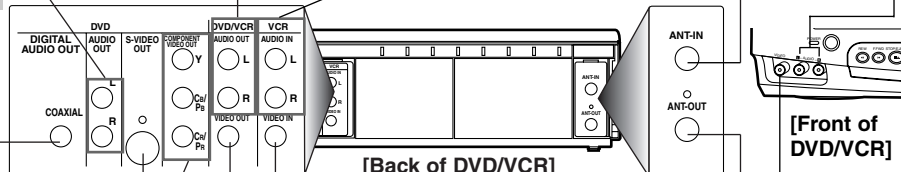
Connect audio cables coming from the audio out jacks of a camcorder, another VCR, or an audio source here.

ANT IN jack

Connect your antenna or cable box here.

COAXIAL jack

Connect an optional coaxial digital audio cable here through the coaxial digital audio in jack of a decoder or audio receiver. (DVD only)



S-VIDEO OUT jack

Connect an optional S-Video cable here through the S-video in jack of a television. (DVD only)

COMPONENT VIDEO OUT jacks

Connect optional component video cables here through the component video in jacks of a television. (DVD only)

DVD/VCR VIDEO OUT jack

Connect the supplied yellow video cable here through the TV's video in jack.

VIDEO IN jack

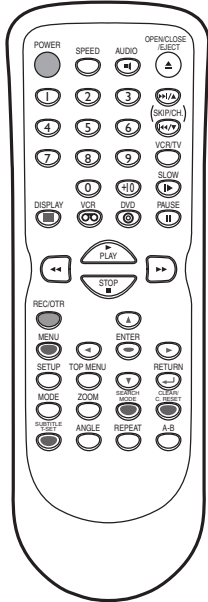
Connect a cable coming from the video out jack of a camcorder, another VCR, or an audio-visual source (laser disc player, video disc player, etc.) here.

ANT OUT jack

Connect the supplied RF cable to the antenna input jack on your TV.

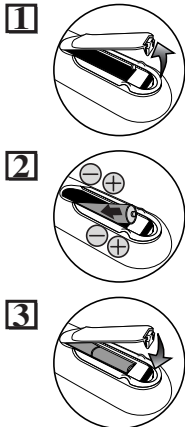
About the Remote Control and Front Panel

Remote Control



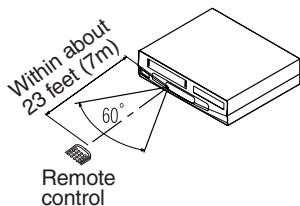
Installing the Batteries for the Remote Control

Install two AA batteries (supplied) matching the polarity indicated inside battery compartment of the remote control.



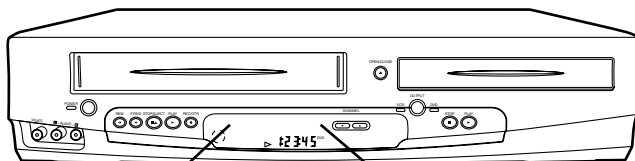
Keep in mind the following when using the remote control:

- Make sure that there is no obstacle between the remote and the remote sensor on the unit.
- Use within the operating range and angle, as shown.

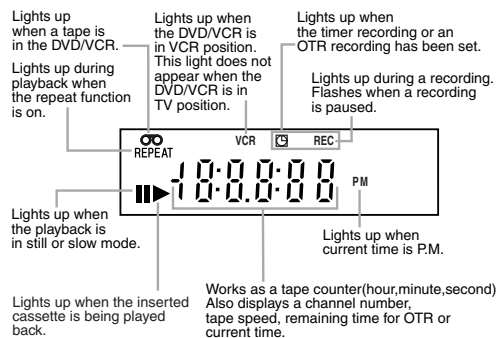
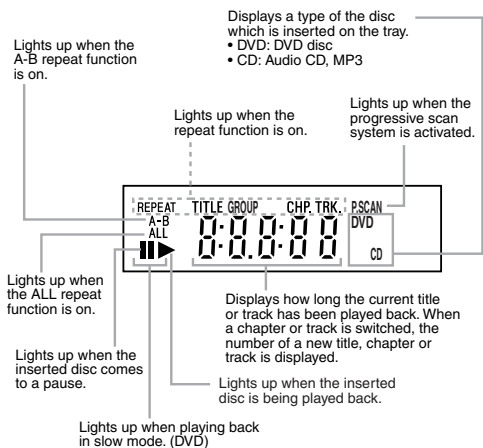


Button (Alphabetical order)	DVD mode		VCR mode
	Disc/Tape	DVD-V	CD/MP3
1 2 3 4 5 6 7 8 9 0	• To select chapter or title directly.	• To select track directly.	• To select channel. • The +10 button has no effect in VCR mode.
◀ ▶	• To search forward/backward through a disc. • To begin slow forward/reverse playback during the pause mode.	• To search forward/backward through a disc.	• To forward/backward a tape.
ENTER	• To move the cursor and determine its position.	• To move the cursor and determine its position.	• To select an item on the VCR Menu. • To advance to the next VCR Menu. • To go back one step during clock and timer setting.
A-B	• To repeat between your chosen point A and B.	• To repeat between your chosen point A and B. (CD)	—
ANGLE	• To select camera angles on a disc.	—	—
AUDIO	• To select audio languages on a disc.	• To select STEREO, L-CH or R-CH. (CD)	—
CLEAR C. RESET	• To clear the markers. • To clear the numbers entered incorrectly.	• To clear the markers. (CD) • To remove status No. in program input. • To clear the numbers entered incorrectly.	• To exit the VCR Menu. • To reset the tape counter.
DISPLAY	• To display the current disc mode.	• To display the current disc mode.	• To display the current time, tape counter, and channel.
DVD	• To select the DVD output mode. • To activate the remote control in DVD mode.	• To select the DVD output mode. • To activate the remote control in DVD mode.	—
MENU	• To call up the Menu on a disc.	• To call up the MP3 menu. (MP3)	• To call up the VCR Menu.
MODE	• To set black level on/off. • To set virtual surround on/off.	• To arrange the playing order or play randomly. • To set virtual surround on/off.	—
OPEN/CLOSE EJECT	• To open or close the disc tray.	• To open or close the disc tray.	• To eject the video cassette from the VCR.
PAUSE	• To pause disc playback. • To advance playback one frame at a time.	• To pause disc playback.	• To pause tape playback or recording. • To advance playback one frame at a time.
▶	• To begin disc playback.	• To begin disc playback.	• To begin tape playback.
POWER	• To turn the unit on or off.	• To turn the unit on or off.	• To turn the unit on or off.
REC/OTR	—	—	• To start a recording.
REPEAT	• To play a chapter or title repeatedly.	• To play a track or disc repeatedly. (CD) • To play a track, group or disc repeatedly. (MP3)	—
RETURN	• To return to the previous operation on the DVD setup menu.	• To return to the previous operation on the DVD setup menu.	—
SEARCH MODE	• To search chapter, title or time. • To rapidly return to a location of disc. • Search the markers.	• To search track. • To search time. (CD) • To rapidly return to a location on the disc. • Search the markers. (CD)	• To call up the index or time search menu.
SETUP	• To call up the DVD setup menu.	• To call up the DVD setup menu.	—
SKIP/CH. ◀▶	• To skip chapters.	• To skip tracks.	• To change channels. • To adjust the tracking manually during playback.
SLOW	—	—	• To view the tape in slow motion.
SPEED	—	—	• To select the recording speed.
STOP	• To stop playback.	• To stop playback.	• To stop playback or recording.
SUBTITLE T.SET	• To select subtitles on a disc.	—	• To put the VCR into standby mode for a timer recording.
TOP MENU	• To call up the Top Menu on a disc.	• To return to the top file of the highest hierarchy in the program and MP3 menu. (MP3)	—
VCR	—	—	• To select the VCR output mode. • To activate the remote control in VCR mode.
VCR/TV	• To select DVD position or TV position.	• To select CD/MP3 position or TV position.	• To select VCR position or TV position.
ZOOM	• To magnify part of a picture. (x2/x4)	—	—

Front Panel Display



- - - - -	No disc inserted / can not read disc
OPEN	Opening the tray
CLOSE	Closing the tray
Load	Loading the disc
▶ 0:00:00	When a disc or tape is being played back



VCR/DVD Switching

Because this product is a combination of a VCR and a DVD player, you must select first which component you wish to operate with the OUTPUT button.

VCR MODE

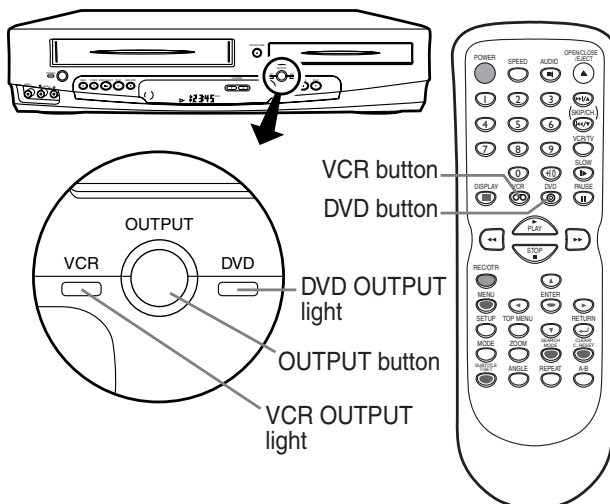
Press the **VCR button** on the remote control.
(Verify that the VCR OUTPUT light is lit.)

DVD MODE

Press the **DVD button** on the remote control.
(Verify that the DVD OUTPUT light is lit.)

Note

- Pressing only the **OUTPUT button** on the front panel DOES NOT switch the mode of the remote control. You MUST select the correct mode on the remote control.



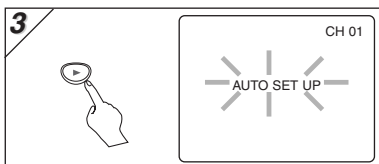
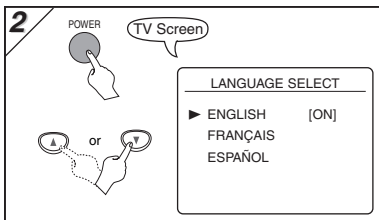
Preparation for First Time Usage

Turn on the unit for the first time



1
Turn on the TV and set it to channel 3.

- If channel 3 is already occupied for broadcasting, see "RF Output Channel" section.



Do you connect the cable from the cable box or the satellite box to the DVD/VCR's ANT IN jack?

YES

Yes Press the MENU button to exit

- Refer to "Tips for Cable Box or Satellite Box" section on page 6.

NO

No Please wait for a few minutes. After scanning...

- The tuner stops on the lowest memorized channel.
- You can select only the channels memorized in this unit by using the CHANNEL buttons.
- If "AUTO SET UP" appears on the TV screen again, check the cable connections. Then, press the ► button once again.

Tips

- Repeat these steps only if either there was a power failure or this unit has been unplugged for more than 30 seconds.

To Select a Channel

You can select a channel by directly entering channel using the Number buttons on the remote control.

Notes for using the Number buttons:

- When selecting cable channels which are higher than 99, enter channel numbers as a three-digit number. (For example: 117, press 1,1,7)
- You must precede single-digit channel numbers with a zero (For example: 02, 03, 04 and so on).

To Preset the Channel Again

- 1) Press the MENU button until the main menu appears.
- 2) Select "CHANNEL SET UP" by pressing the ▲ or ▼ button. Then, press the ► button.
- 3) Select "AUTO SET UP" by pressing the ▲ or ▼ button. Then, press the ► button. After scanning, the tuner stops on the lowest memorized channel.

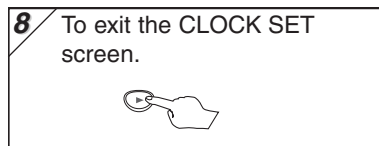
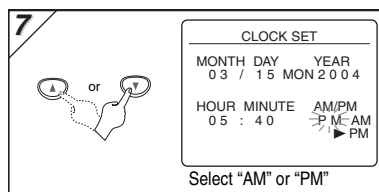
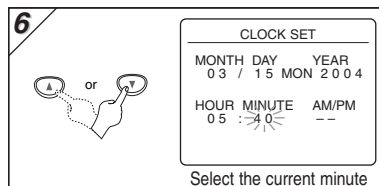
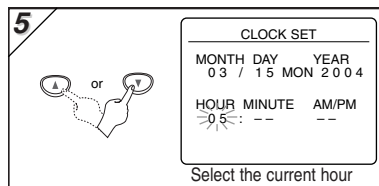
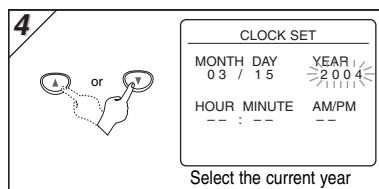
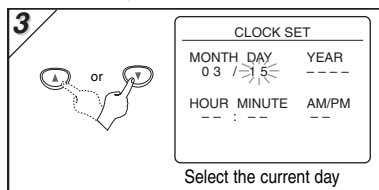
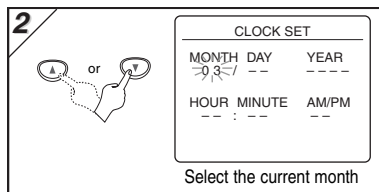
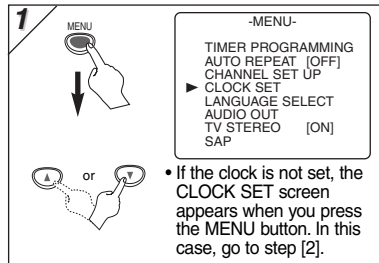
To Change the On-Screen Language

- 1) Press the MENU button until the main menu appears.
- 2) Select "LANGUAGE SELECT" by pressing the ▲ or ▼ button. Then, press the ► button.
- 3) Select "ENGLISH", "FRANÇAIS" or "ESPAÑOL" by pressing the ▲ or ▼ button. Then, press the CLEAR/C.RESET button.

Tips

- If you accidentally select Spanish or French and need English: Press the MENU button and choose SELEC. IDIOMA, or SELECTION LANGUE. Press the ► button, and select ENGLISH. Finally, press the CLEAR/C.RESET button.

Clock Set Up



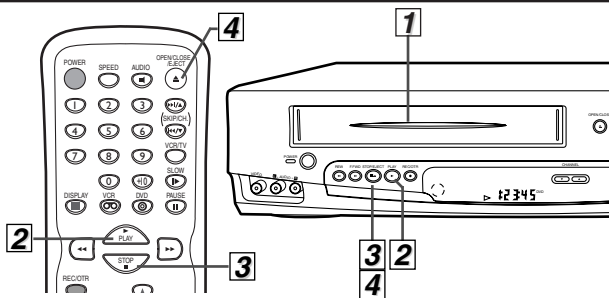
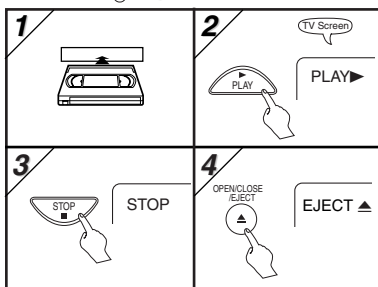
Tips

- To go back one step, press the ◀ button (during the steps [2] to [7].)
- Your clock setting will be lost if either there is a power failure or this unit has been unplugged for more than 30 seconds.

Playback

Turn on the TV and set it to channel 3.

- If channel 3 is already occupied for broadcasting, see "RF Output Channel" section.



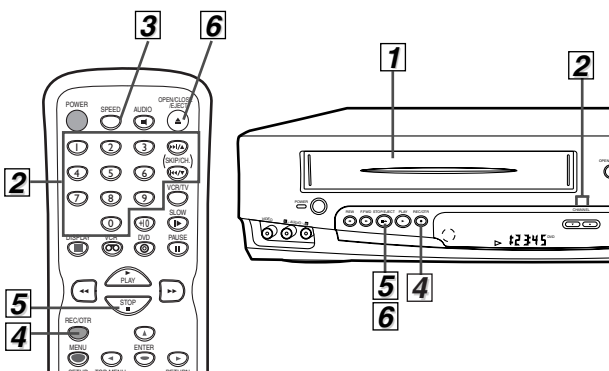
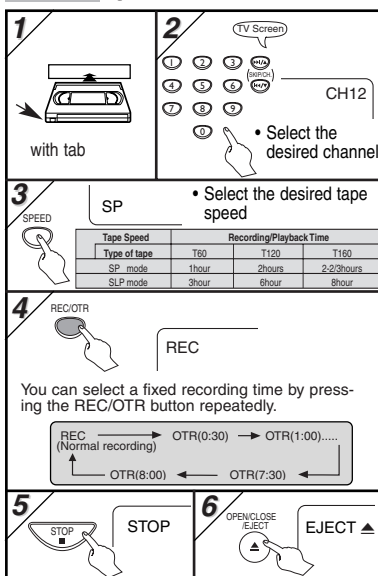
Tips

- When a tape without record tab is inserted, the DVD/VCR will start playback automatically.
- Tracking will be automatically adjusted upon playback. To adjust the tracking manually, press the CHANNEL buttons.

Recording & OTR (One Touch Recording)

Turn on the TV and set it to channel 3.

- If channel 3 is already occupied for broadcasting, see "RF Output Channel" section.

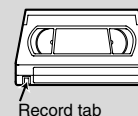


Tips

- To view one channel while recording another
 - 1) While you are recording on the DVD/VCR, press the VCR/TV button so that the "VCR" light disappears on the DVD/VCR.
 - 2) At the cable box or satellite box, select the channel you want to view.
- If you have connected the DVD/VCR to a cable box or satellite box, refer to "Tips for Cable Box or Satellite Box" section on page 6.

Accidental erasure prevention

To prevent accidental recording on a recorded cassette, remove its record tab. To record on it later, cover the hole with cellophane tape.



You **CAN NOT** copy a DVD to a videotape.

To stop recording temporarily (Pause mode)

Press the **PAUSE/STILL** button.

- During the rec-pause mode, five ■ marks appear on the TV screen. Each ■ mark represents one minute.
- Press it again to resume recording.

Other Operations

To cue or review picture during playback (Picture Search)

Press the **F.FWD** or **REW** button.

- Press it again and the DVD/VCR will search in super high speed. (in the LP/SLP modes only)

To freeze the picture on TV screen during playback (Still mode)

Press the **PAUSE/STILL** button. Each time you press the button, the picture will be forwarded by one frame.

- If the picture begins to vibrate vertically during the still mode, stabilize the picture by pressing the CHANNEL buttons.
- If the picture is distorted or rolling vertically, adjust the vertical hold control on your TV, if equipped.

Counter Reset

Press the **CLEAR/C.RESET** button.

To play back in slow motion

Press the **SLOW** button during playback or the still mode.

- If the noise bars appear on the TV screen, you can reduce it by pressing the CHANNEL buttons.

Auto Rewind

When a tape reaches its end during playback, fast-forward, or recording (except timer recording and One Touch Recording), the tape will automatically rewind to the beginning. After rewinding finishes, the DVD/VCR will eject the tape.

Tips

- Still/Slow/Pause mode will be automatically cancelled after 5 minutes to prevent damage to the tape and the video head.
- To return to playback from the Picture Search/Still/Slow mode, press the **PLAY** button.

On-Screen Operations



1 To call up the main menu

MENU

-MENU-

- TIMER PROGRAMMING
- AUTO REPEAT [OFF]
- CHANNEL SET UP
- CLOCK SET
- LANGUAGE SELECT

3 To decide

CHANNEL SET UP

- AUTO SET UP
- MANUAL SET UP

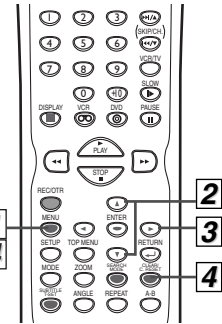
2 To select an item

-MENU-

- TIMER PROGRAMMING
- AUTO REPEAT [OFF]
- CHANNEL SET UP
- CLOCK SET
- LANGUAGE SELECT

4 To exit the menu

CLEAR/C.RESET OR MENU



Recording Features

Timer Recording

Insert a tape with its record tab into the DVD/VCR.



1

MENU

-MENU-

- TIMER PROGRAMMING
- AUTO REPEAT [OFF]
- CHANNEL SET UP
- CLOCK SET
- LANGUAGE SELECT
- AUDIO OUT
- TV STEREO [ON]
- SAP

2

PROGRAM NUMBER 4

DATE 05/03

START TIME 07:30

END TIME 08:30

CHANNEL 16

REC SPEED SP

Select an empty program number

3

PROGRAM NUMBER 4

ONCE DAILY WEEKLY

Select "ONCE", "DAILY" (Mon-Fri), or "WEEKLY"

4

ONE TIME PROGRAM

PROGRAM NUMBER 4

DATE 05/03 MON

START TIME 07:30

END TIME 08:30

CHANNEL 16

REC SPEED SP

Select the desired month

Select the desired day

You can program one year in advance.

5

Select the desired start time (hour)

ONE TIME PROGRAM

PROGRAM NUMBER 4

DATE 05/03 MON

START TIME 07:30

END TIME 08:30

CHANNEL 16

REC SPEED SP

Select the minute

6

ONE TIME PROGRAM

PROGRAM NUMBER 4

DATE 05/03 MON

START TIME 07:30 PM

END TIME 08:30 PM

CHANNEL 16

REC SPEED SP

Select "AM" or "PM"

7

Repeat the procedure in steps 5 and 6 to set the end time.

8

ONE TIME PROGRAM

PROGRAM NUMBER 4

DATE 05/03 MON

START TIME 07:30 PM

END TIME 08:30 PM

CHANNEL 16

REC SPEED SP

Select the desired channel

If you have connected the DVD/VCR to a cable box or satellite box as the Connection A on page 6, select the VCR to channel 3 or 4 (the RF output channel of the VCR). Then, select the desired channel at the cable box or satellite box. Leave the cable box or satellite box on for timer recording.

9

ONE TIME PROGRAM

PROGRAM NUMBER 4

DATE 05/03 MON

START TIME 07:30 PM

END TIME 08:30 PM

CHANNEL 16

REC SPEED SP

Select the desired recording speed

To set another program after step [9], press the ► button. Then, continue with step [2].

10

Light on the front panel appears. The DVD/VCR will change to the DVD mode.

Tips

- To go back one step, press the ◀ button (during the steps [3] to [9].)






To Check, Correct, or Cancel a Timer Program

- Press the SUBTITLE/T-SET button then, the VCR button on the remote control.
- Select main menu by pressing the MENU button.
- Select "TIMER PROGRAMMING" by pressing the ▲ or ▼ button. Then, press the ► button.
- Select the program number which you want to check by pressing the ▲ or ▼ button. The details of the program you selected will appear on the TV screen.
- Go to the digit you want to change by pressing the ► or ◀ button. Then, enter correct numbers by pressing the ▲ or ▼ button.
- You may cancel the entire program by pressing the ◀ button while the program number flashes.
- Press the CLEAR/C.RESET button to exit.
- Press the SUBTITLE/T-SET button to return to timer stand-by mode.


To cancel a Timer Recording in progress

Press the STOP/EJECT button on the DVD/VCR.

Tips for Timer Recording

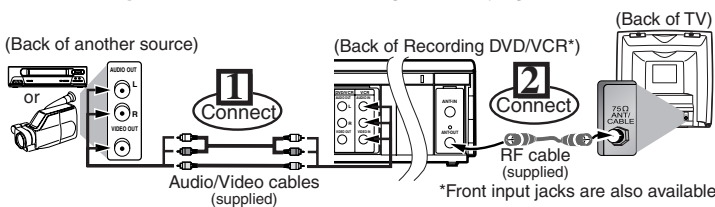
- If there is a power failure or the DVD/VCR has been unplugged for more than 30 seconds, the clock setting and all timer settings will be lost.
- If a tape is not in the DVD/VCR or does not have the record tab, the  light flashes and timer recording cannot be performed. Please insert a recordable tape.
- If a tape ends during timer recording, the VCR will stop, eject the tape, and switch to the DVD mode automatically as the  light flashes. (If the DVD power is off, the VCR will become STANDBY status).
- When all timer recordings are finished, the  light will flash.
- When timer recordings are set, the  light will appear. To use the VCR as usual until the time for the recording, press the SUBTITLE/T-SET button so that the  light disappears. Press the VCR/TV button to choose the VCR position. Select either VCR or DVD mode, then continue with the other features as described in this manual.

If you want to use the DVD player during a VCR timer recording or while the  light is on or flashes.

- You can use the DVD player while the  light is on or flashes, or during a timer recording. Press the POWER button to turn on the DVD. Press the DVD button on the remote control to choose DVD mode, then continue with the other DVD features as described in this manual. You don't have to set the TIMER off to use the DVD only.

Copying a Video Tape

Warning: Unauthorized recordings of copyrighted video tapes may be an infringement of copyright laws.



- 1) Insert a pre-recorded tape into the playing VCR.
- 2) Insert a tape with its record tab into the recording DVD/VCR.
- 3) Press the **SPEED** button on the remote control of the recording DVD/VCR to select the desired recording speed (SP/SLP).
- 4) Select the "L1" or "L2" position on the recording DVD/VCR.
 - To use the input jacks on the back of this unit, select "L1" position by pressing [0], [0], [1] on the remote control or the **CHANNEL** buttons.
 - To use the input jacks on the front of this unit, select "L2" position by pressing [0], [0], [2] on the remote control or the **CHANNEL** buttons.
- 5) Press the **REC/OTR** button on the recording DVD/VCR.
- 6) Begin playback of the tape in another source.
- 7) To stop recording, press the **STOP/EJECT** button on the recording DVD/VCR, then stop playback of the tape in another source.

Tips

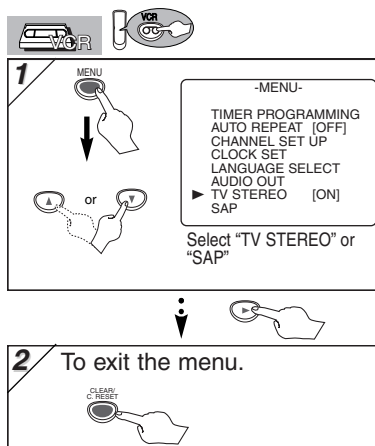
- For best results during dubbing, use the front panel controls whenever possible. The remote control might affect another source's operation.
- Always use video-quality shielded cables with RCA-type connectors. Standard audio cables are not recommended.
- You can use a video disc player, satellite receiver, or other audio/video component with A/V outputs.
- "L1" or "L2" is found before the lowest memorized channel. (Example: CH02)
- "L2" input jacks are on the front of this DVD/VCR.

MTS System (Multi-Channel Television Sound)

When You Receive or Record a Program Broadcast in MTS

- When you receive a broadcast on the VCR, you can check the type of the broadcast by pressing the DISPLAY button.
- When "TV STEREO" or "SAP" selection is valid, select them by following steps. This selection is needed when you record the program.
- SAP means Second Audio Program (usually second language).

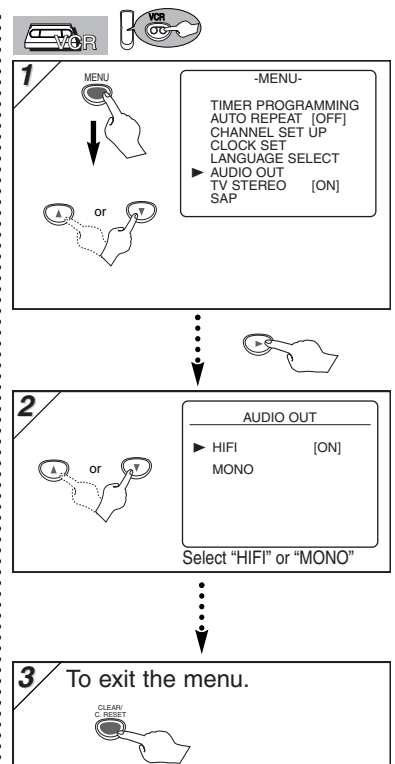
Display on the TV screen	Type of broadcast	STEREO/SAP Selection
-None-	Regular (monaural audio)	-Invalid-
STEREO	Stereo broadcast	-Invalid-
SAP	Bilingual broadcast	TV STEREO (main audio program) SAP (second audio program)
STEREO SAP	Stereo & Bilingual broadcast	TV STEREO (stereo main audio program) SAP (second audio program)



When You Play Back a Tape Recorded in Hi-Fi Stereo

- If you have connected a stereo TV to this DVD/VCR, select "STEREO".
- If you have connected a monaural TV to this DVD/VCR, select "MONO".

Your Selection	STEREO		MONO
Type of recorded tape	L-channel	R-channel	
non Hi-Fi tapes	Monaural	Monaural	Monaural
Hi-Fi tapes recorded in Hi-Fi stereo	L	R	L+R
Hi-Fi tapes recorded main audio program	Main audio program	Main audio program	Main audio program
Hi-Fi tapes recorded second audio program	Second audio program	Second audio program	Second audio program

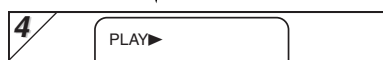
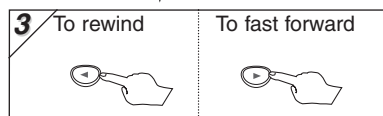
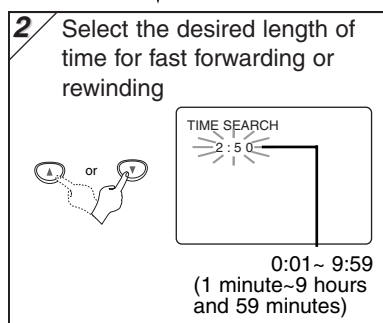
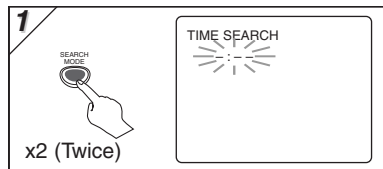


Special Features

Time Search

You can specify the time for fast forwarding or rewinding.

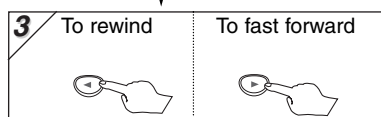
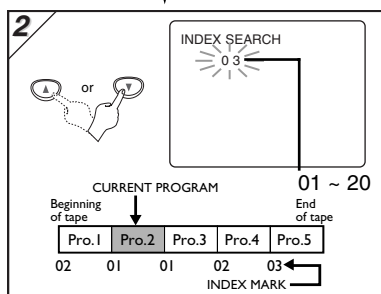
- Insert a tape into this unit.



Index Search

You can specify the number of programs to be skipped.

- Insert a tape into this unit.



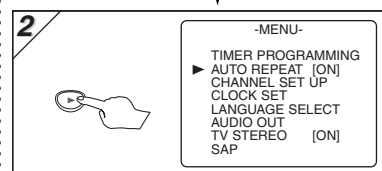
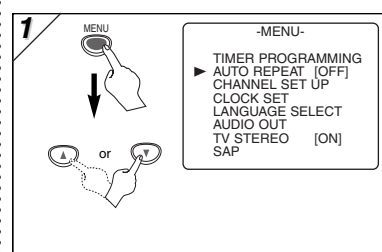
Tips

- This unit stores index mark at the beginning of the recording. There should be time gap between two index marks for the Index Search.

Auto Repeat

You can repeat playback of a whole tape automatically.

- Insert a tape into this unit.



Tips

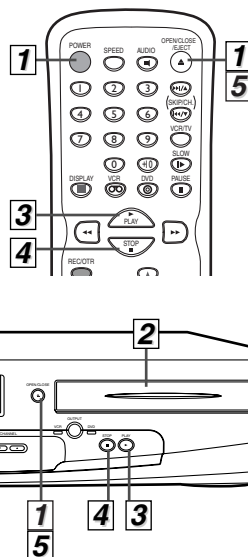
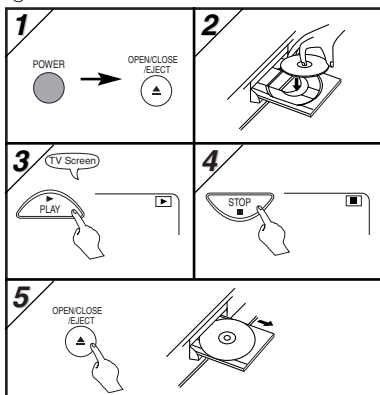
- To cancel Auto Repeat, follow steps [1]-[2] above. Then, press the ► button, so that [OFF] appears beside AUTO REPEAT. Press the CLEAR/C.RESET button to exit.
- If menu remains on the TV screen at step [3], press the CLEAR/C.RESET button to exit.

Tips for Timer Search & Index Search

- These functions are not available during recording.
- Press the STOP button to stop the search.
- If the end of the tape is reached during a Search, this unit will cancel the search and rewind the tape.

Playback

Turn on the TV, amplifier and any other components which are connected to this unit. Make sure the TV and audio receiver (commercially available) are set to the correct channel.



Tips

- When you play an MP3 file, details on page 16.
- A "prohibited icon" may appear at the top-right on the TV screen when the operation is prohibited by the disc or this unit.
- Some DVDs may be played from title 2 or 3 due to specific programs.
- During the playback of a two-layered disc, pictures may stop for a moment. This happens while the 1st layer is being switched to the 2nd layer. This is not a malfunction.

DVD menu

DVDs may contain menus to access special features. Press appropriate Number buttons or use the arrow (▲/▼/◀/▶) buttons to highlight your selection on the DVD main menu and press the ENTER button to confirm.

Calling up a Menu Screen during Playback

- Press the MENU button to call up the DVD menu.
- Press the TOP MENU button to call up the title menu.

Note

- Menu operations may vary depending on the disc. Refer to the manual accompanying the disc for details.

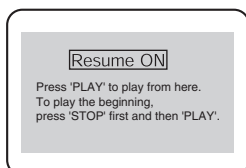
Resume



Press the **STOP** button. Resume message will appear on the TV screen.

Press the **PLAY** button, playback will resume from the point at which playback was stopped.

- To cancel resume, press the **STOP** button one more time during the Stop mode.
- For MP3, playback will resume from the beginning of the track at which playback was stopped.



Paused and Step-by-Step Playback



Press the **PAUSE** button during playback. **To continue playback, press the PLAY button.**



The disc goes forward by one frame each time the **PAUSE** button is pressed during the pause mode.

To continue playback, press the PLAY button.

Tips

- Set "STILL MODE" to "FIELD" in the Display menu if pictures in the pause mode are blurred. (Refer to page 21.)

Fast Forward/Reverse Search



Press the **▶▶** or **◀◀** button repeatedly during playback to select the required forward or reverse speed.

To continue playback, press the PLAY button.

- For DVDs, fast forward or reverse search speed is different depending on the disc. Approximate speed is 1(x2),2(x8),3(x50),4(x100).
- For Audio CDs, approximate speed is x16.
- For MP3, approximate speed is x8.

Slow Forward/Slow Reverse



Press the **▶▶** or **◀◀** button repeatedly during the pause mode to select the required forward or reverse speed.

To continue playback, press the PLAY button.

- Slow forward or reverse speed is different depending on the disc. Approximate speed is 1(1/16),2(1/8),3(1/2).

Tips

- Set "STILL MODE" to "FIELD" in the Display menu if pictures in the slow playback mode are blurred. (Refer to page 21.)

Zoom



- 1) Press the **ZOOM** button during playback.
- 2) Press the **ZOOM** button repeatedly to select the required zoom factor: x2, x4 or OFF.
- 3) Use the arrow (▲/▼/◀/▶) buttons to slide the zoomed picture across the screen.
- 4) To exit zoom mode, press the **ZOOM** button to select "OFF".

TIPS:

- Zooming function does not work while the disc menu is showing up.
- x4 zoom is not available on some discs.

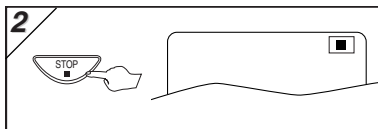
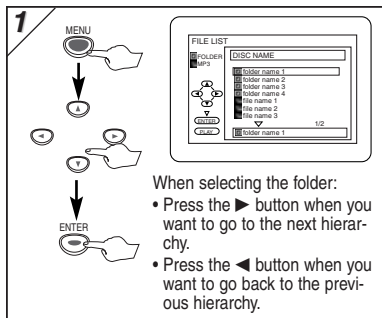


MP3 Playback

MP3 is a method of compressing files. You can copy MP3 files on CD-R/RWs from the computer and play the files on this unit.



Insert a MP3-format disc, then press the MENU button to call up the MP3 menu on the TV screen.



Tips

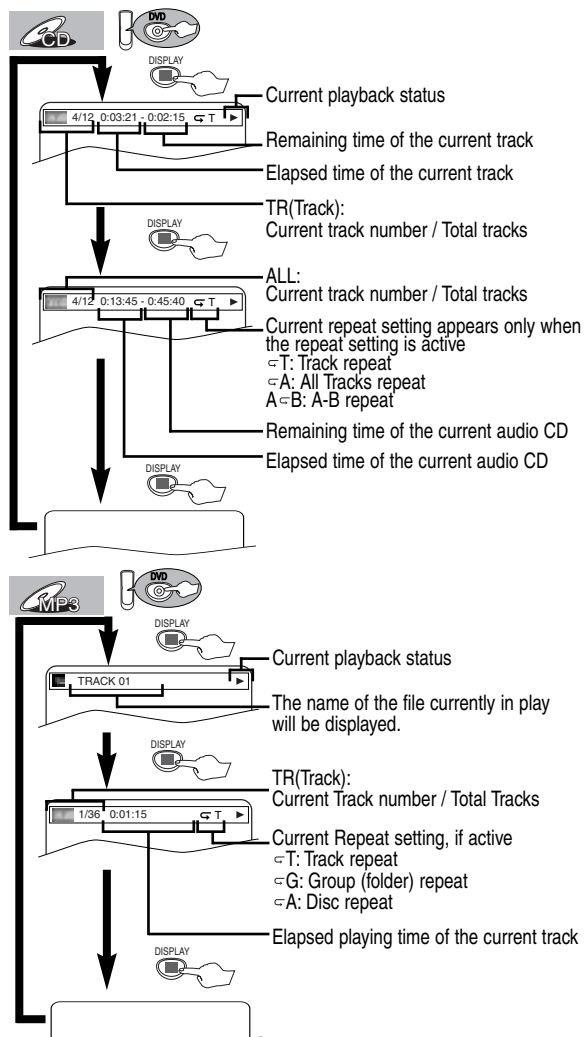
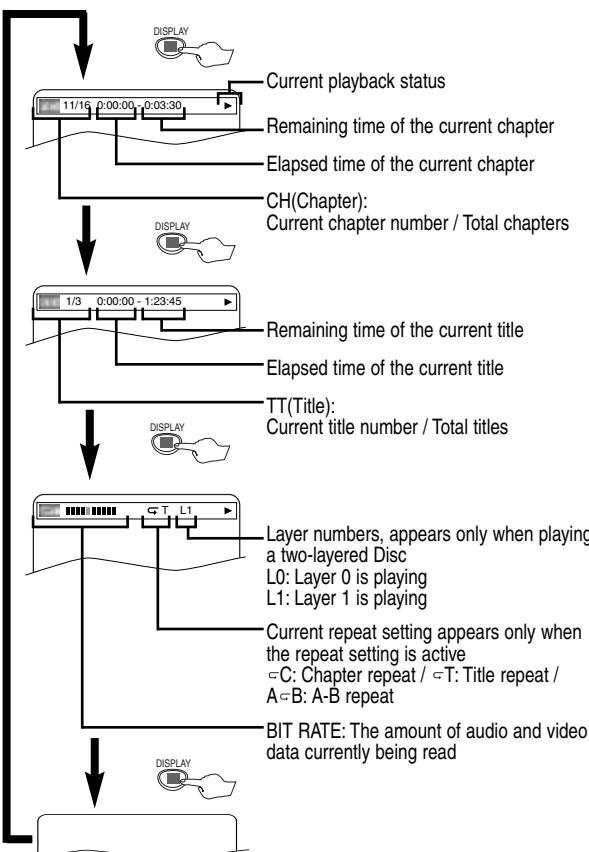
- Some selections may take a while to be recognized.
- Press the TOP MENU button to return to the first item.
- Folders are known as Groups; files are known as Tracks.
- MP3 files are accompanied by icon.
- Folders are accompanied by icon.
- A maximum of 255 folders can be recognized.
- A maximum of 512 files can be recognized.
- Up to 8 hierarchies can be created.

This DVD/VCR recommends the files recorded under the following circumstances:

- Sampling frequency: 44.1kHz or 48kHz
- Constant bit rate: 112kbps ~ 320kbps.

The On-Screen Display

You can check the information about the current disc by pressing the DISPLAY button on the remote control.

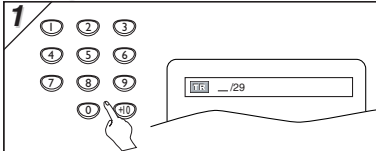


Search Function

Track Search

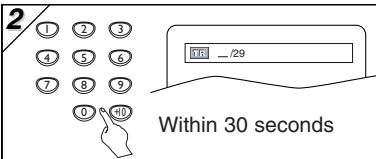
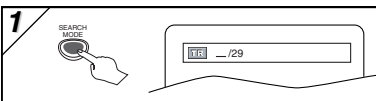


Using the number buttons



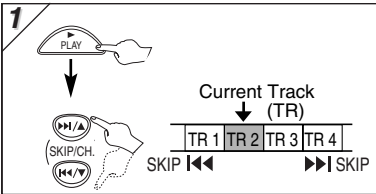
- For single digit tracks (1-9), press a single number (eg. track 3, press 3).
- To play track 26, press +10, 2, 6 of the Number buttons.

Using the SEARCH MODE button



Within 30 seconds

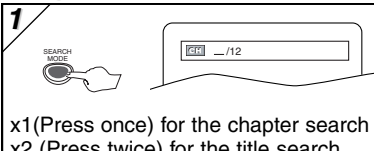
Using the SKIP <<, >> buttons



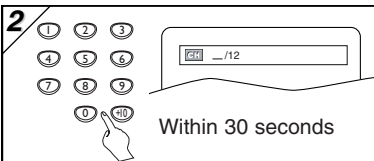
Title / Chapter Search



Using the SEARCH MODE button

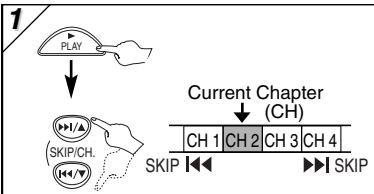


- x1 (Press once) for the chapter search
- x2 (Press twice) for the title search



Within 30 seconds

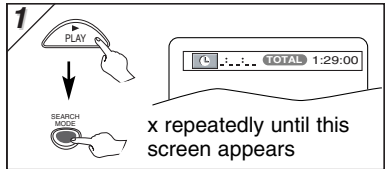
Using the SKIP <<, >> buttons



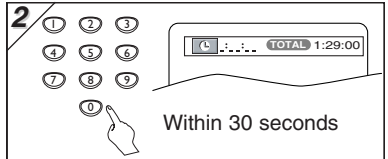
Note

- Depending on the disc being played, this function can also be performed by directly entering the desired chapter number with the number buttons. Refer to the manual accompanying the disc.

Time Search



x repeatedly until this screen appears



Within 30 seconds

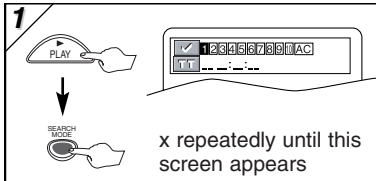
- e.g. When there is no need to enter a number, "0" appears automatically. For example, "0:0:_" appears in the Time Search display if the total time of the disc is less than 10 minutes.

Marker Setup

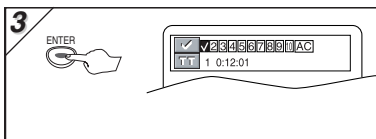
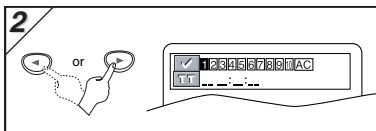


This feature allows you to assign a specific point on a disc to be called back later.

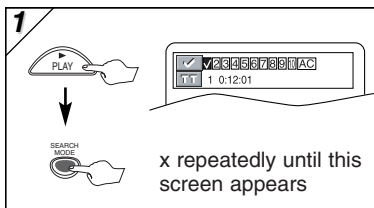
To set a marker



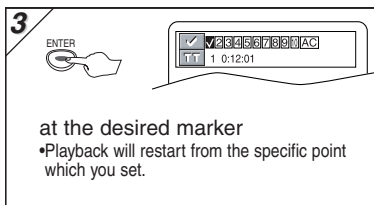
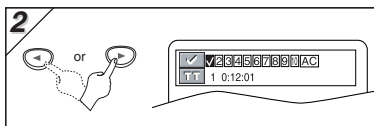
x repeatedly until this screen appears



To return to the marker later



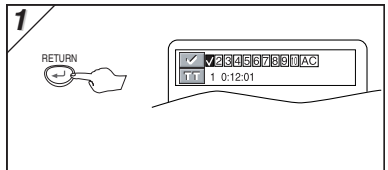
x repeatedly until this screen appears



at the desired marker

- Playback will restart from the specific point which you set.

To exit the marker screen



Notes

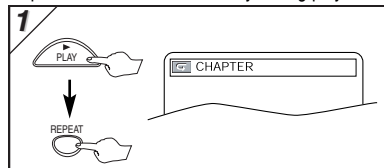
- Opening the disc tray or turning off the power will erase all markers.
- Selecting "AC" at step [2] in the section "To set a marker" will also erase all markers.
- To clear a marker, select the marker to be cleared at step [2] in the section "To return to the marker later," and then press the CLEAR/C.RESET button.

Repeat / Random / Programmed Playback

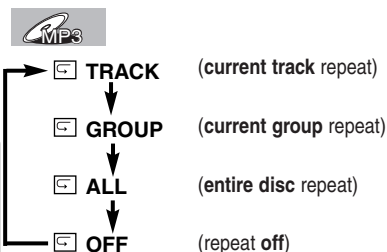
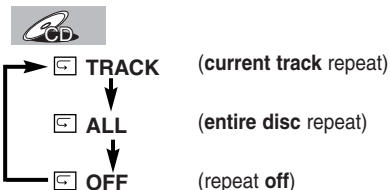
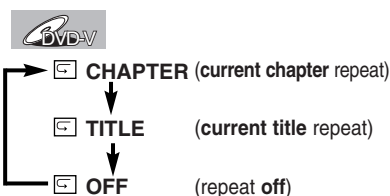
Repeat Playback



Repeat function is available only during playback.

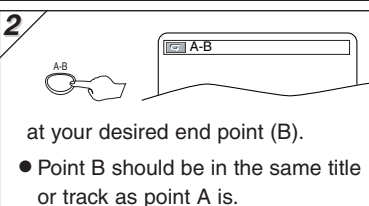
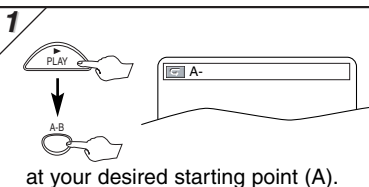
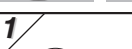


Each time the REPEAT button is pressed...



- Repeat setting will be cleared when moving to another title, chapter, or track.
- Repeat playback are not available with all discs or during repeat A-B playback.

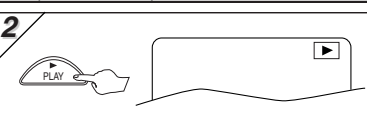
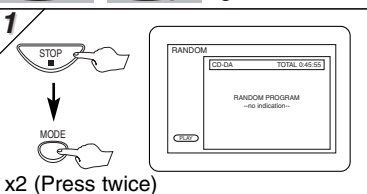
Repeat A-B Playback



- Point B should be in the same title or track as point A is.
- To exit the sequence, press the A-B button.
- To cancel Point A, press the CLEAR/C.RESET button.
- This function does not work in the other repeat modes.

Random Playback

This shuffles the playing order of tracks instead of playback in the sequence.



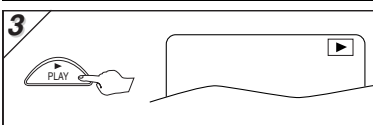
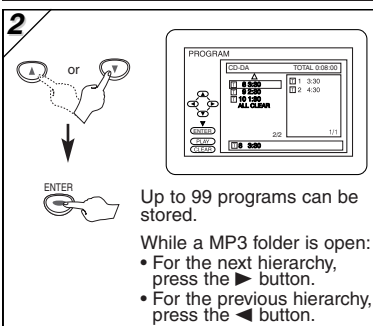
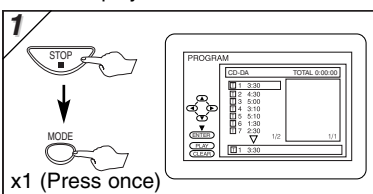
Note

- If you want to repeat the current track in the random selections, press the REPEAT button repeatedly until ☒ TRACK appears during playback. If you want to repeat the entire random selections, press the REPEAT button repeatedly until ☒ ALL appears during playback.

Programmed Playback



You may determine the order in which tracks will play.



Notes

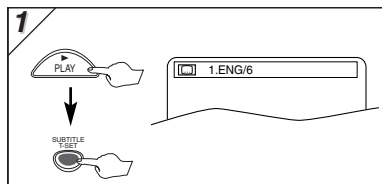
- Press the CLEAR/C.RESET button at step [2] to erase the most recently entered program.
- To erase all programs at once, select "ALL CLEAR" and press the ENTER button at step [2].
- While a program is being played back, the STOP button works as follows:
 - ⇒ Press the STOP button and the PLAY button next, so that the programmed playback restarts. (CD playback restarts from the current point. MP3 playback restarts from the beginning of the current track.)
 - ⇒ Press the STOP button twice and the PLAY button next, so that playback restarts from the first track in the original order. However, your programmed playback can be restarted when you follow the above steps. (Your programs are still stored until either the disc tray is open or power is turned off.)
- To repeat the current track in the program, press the REPEAT button repeatedly until ☒ TRACK appears during playback.
- To repeat the entire program press the REPEAT button repeatedly until ☒ ALL appears during playback.

Special Settings

Subtitle Language

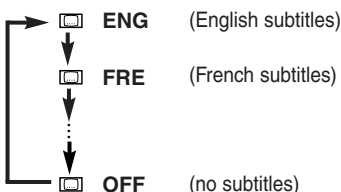


This unit allows you to select a subtitle language (if available) during DVD playback.

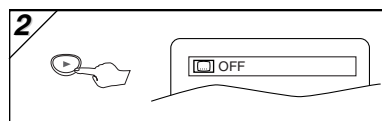
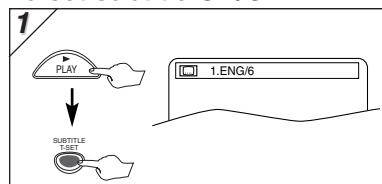


Each time you press the SUBTITLE/T-SET button, subtitle languages change.

For example



To set subtitle ON/OFF



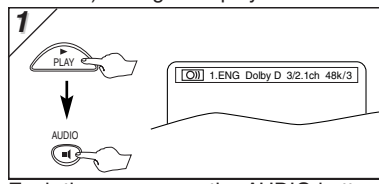
Notes

- If your language is not shown after pressing the AUDIO or SUBTITLE/T-SET button several times, the disc may not have that language. However, some discs allow audio language or subtitle language setting on the disc menu. (Operation varies depending on the discs, so refer to the manual along with the disc.)
- When "NOT AVAILABLE" appears on the TV screen, it means no subtitle is recorded on the scene.
- If you choose a language that has a 3 letter language code, the code will be displayed every time you change the subtitle language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 24.)

Audio Language

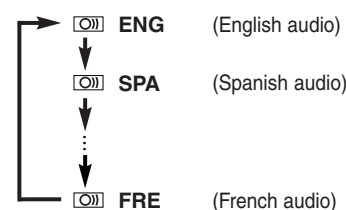


This unit allows you to select an audio language (if multiple languages are available) during DVD playback.



Each time you press the AUDIO button;

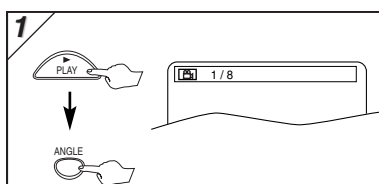
For example



Camera Angle



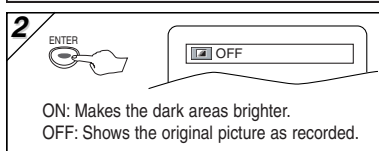
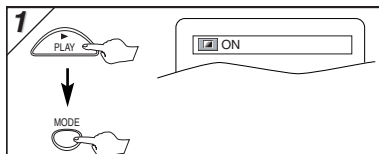
Some DVD discs may contain scenes which have been shot simultaneously from various angles. You can change the camera angle if the (ANGLE) icon appears on the screen. If the "ANGLE ICON" setting is "OFF" in the Display menu, the (ANGLE) icon will not appear. (Refer to page 21.)



Black Level Setting



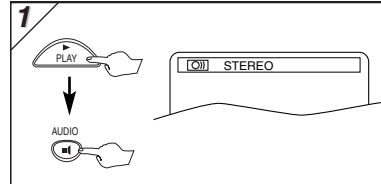
Adjust the Black Level Setting to make the dark areas of the TV picture brighter.



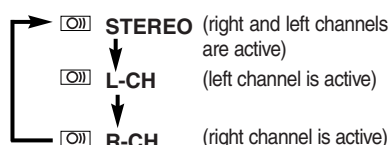
Stereo Sound mode



This unit allows you to select a sound mode during CD playback.



Each time you press the AUDIO button;



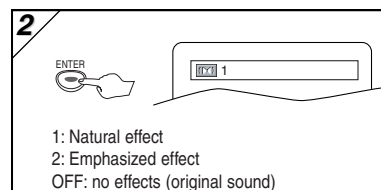
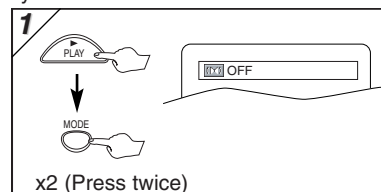
Note

- If the Virtual Surround setting is "1" or "2", the sound mode will be fixed to STEREO, and can not be changed.

Virtual Surround



You can enjoy stereophonic virtual world on your existing 2 channel stereo system.

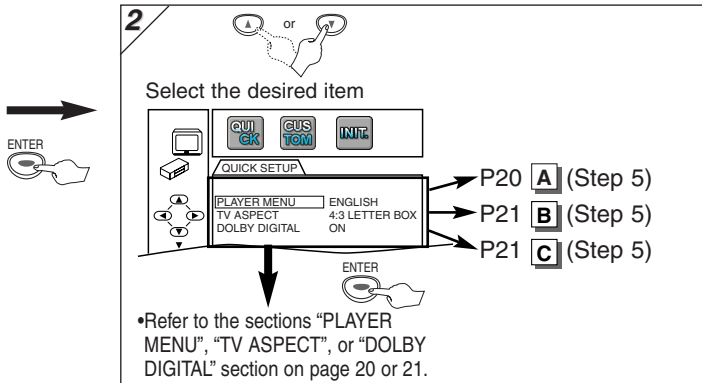
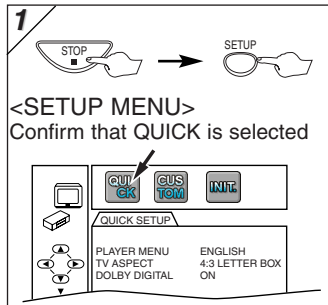


Note (for CD play back only)

- Virtual Surround will not be effective if the sound mode is set to something other than STEREO.

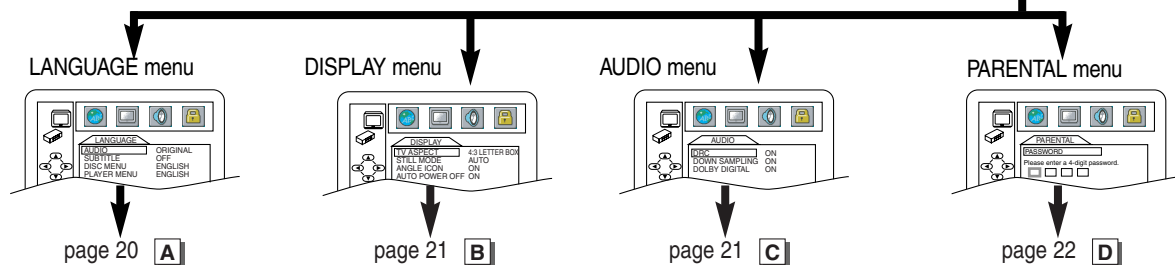
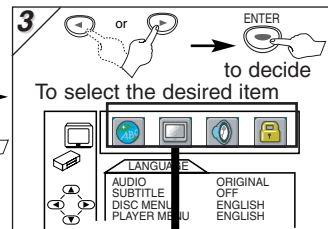
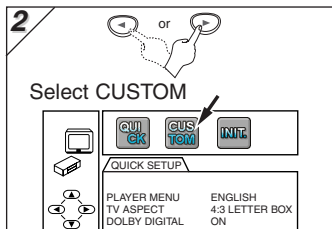
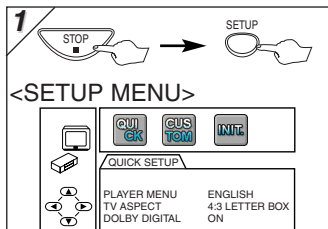
QUICK SETUP Menu

You can select the "PLAYER MENU", "TV ASPECT", or "DOLBY DIGITAL" from the QUICK SETUP menu quickly.



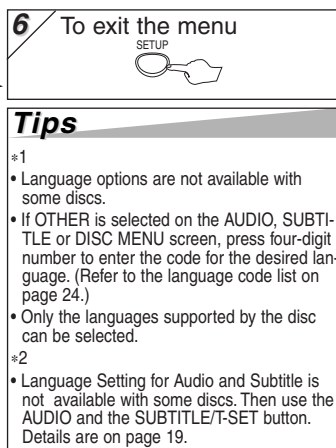
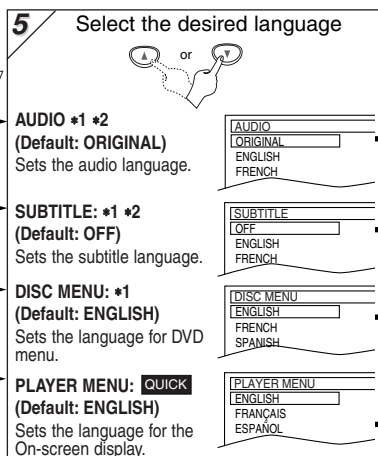
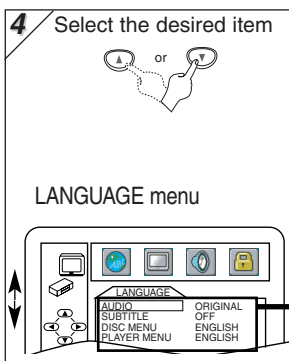
CUSTOM Menu

You can change the DVD player's settings.



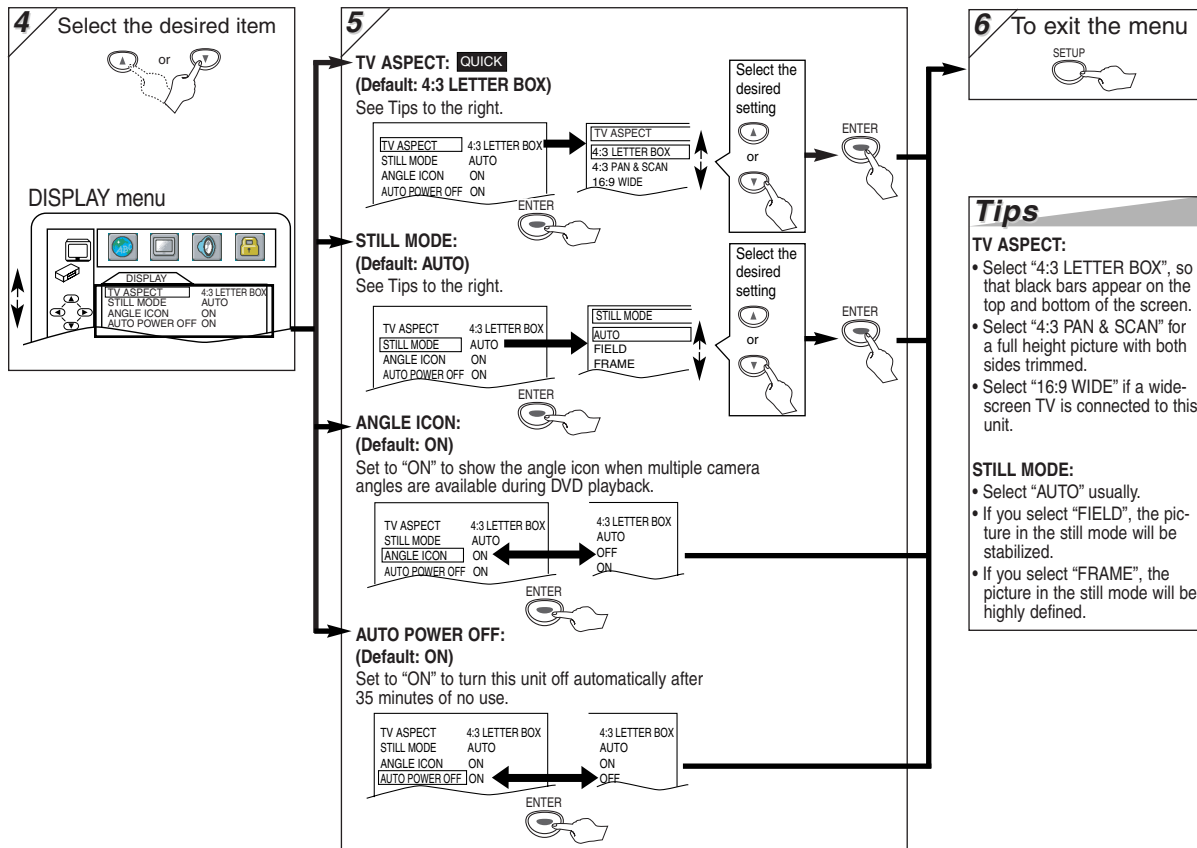
A LANGUAGE Setting

Follow the step 1) to 3) in the "CUSTOM Menu" section on page 20.



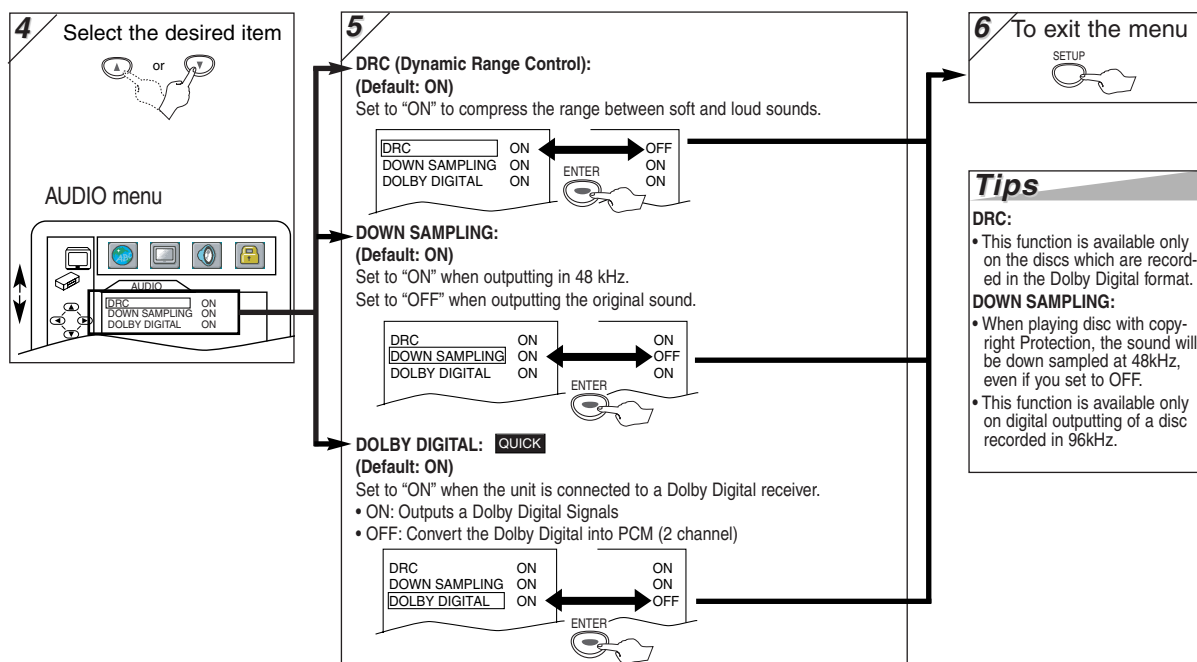
B DISPLAY Setting

You can change the display functions. Follow the step 1) to 3) in the "CUSTOM Menu" section on page 20.



C AUDIO Setting

Choose the appropriate audio settings for your equipment. It only affects during the playback of DVD discs. Follow the step 1) to 3) in the "CUSTOM Menu" section on page 20.



D PARENTAL Setting

Parental Control limits the disc viewing that exceed your settings. (if an incorrect password is entered, the disc will not play)
This feature prevents your children from viewing inappropriate materials.

Parental Levels

Parental Level allows you to set the rating levels of your DVD discs. Playback will stop if the ratings exceed the levels you set. Follow the steps 1) to 3) in the "CUSTOM Menu" section on page 20.

4 Enter your desired four-digit password (except for 4737)

PARENTAL menu

..... or

If you have set a password already, enter the current four-digit password.

5 Select "PARENTAL LEVEL"

6 Select the desired levels

7 To exit the menu

Tips

CONTROL LEVELS

- ALL: All parental locks are cancelled.
- Levels 8: DVD softwares of any grades (adult/general/children) can be played back.
- Levels 7 to 2: Only DVD softwares intended for general use and children can be played back.
- Level 1: Only DVD softwares intended for children can be played back, with those intended for adult and general use prohibited.

To Change the Password for Parental Controls

You can change your password for parental controls. Follow the steps 1) to 3) in the "CUSTOM Menu" section on page 20.

4 Enter your desired four-digit password (except for 4737)

PARENTAL menu

5 Select "CHANGE"

6 Enter your new four-digit password (except for 4737)

7 To exit the menu

Tips

- Record the password in case you forget it.
- If you forget the password, press 4, 7, 3, 7 at step 4, then enter your new password.
- Password will be cleared and parental levels will be set to ALL.

To return the All Selections of SET UP (except for PARENTAL) to the Default Setting

1

<SETUP MENU>

2

3


4 To exit the menu

Tips

- When you cancel to initialize at step 3, select "NO".

Troubleshooting Guide

If this unit does not perform properly when operated as instructed in this Owner's Manual, check the player consulting the following checklist.

	PROBLEM	CORRECTIVE ACTION
D V D	No power.	<ul style="list-style-type: none"> Make sure the power plug is connected to an AC outlet. Make sure the power is turned on.
	The player does not respond to the remote control.	<ul style="list-style-type: none"> Check if the power plug is connected to an AC outlet. Check the batteries in the remote control. Aim the remote control directly at the remote sensor. If necessary, remove all the obstacles between the sensor and the remote. You have to be within 23 feet of the player. Check if the right mode is selected. If it's not in the right mode, press the DVD or VCR buttons, whichever you need, on the remote control. Check if a cassette tape is in the VCR. Tune your radio to an empty AM station so that you hear a lot of noises. Turn the volume up, then. If you hear some signal sound from the radio in response to your pressing buttons on the remote, the remote control is working.
V C R	Timer recording is impossible.	<ul style="list-style-type: none"> Make sure the timer recording is set correctly. Make sure the  light appears on the DVD/VCR. If not, press the SUBTITLE/T-SET button. Make sure the VCR clock is set correctly.
V C R	Cannot go into Record mode.	<ul style="list-style-type: none"> Make sure the tape has a safety tab. If needed, cover the hole with cellophane tape. Activate the player in VCR mode. Press the VCR button on the remote control so that the green VCR OUTPUT light is lit.
	Playback picture is partially noisy.	<ul style="list-style-type: none"> Adjust tracking control for a better picture by pressing the CHANNEL (▼/▲) buttons on the DVD/VCR or the SKIP/CH.(▲/▼) buttons on the remote control.
	Cannot view a tape but the audio is OK.	<ul style="list-style-type: none"> Head cleaning may be necessary. Refer to "AUTO HEAD CLEANING". Make sure the VCR is not in the Menu mode.
	No, or poor, playback picture.	<ul style="list-style-type: none"> Change the RF output channel to CH4. Then select the same channel on the TV. Fine tune your TV.
	TV programs cannot be seen normally.	<ul style="list-style-type: none"> Re-check the ANT. IN and ANT. OUT connections. See pages 1,6. Press the VCR/TV button. Press the VCR button on the remote control to activate it in the VCR mode. Check if the green VCR OUTPUT light is lit. Then, set it to the TV position by pressing the VCR/TV button.
	Video or color fades in and out when making a copy of a video tape.	<ul style="list-style-type: none"> You cannot copy a copyrighted video tape. You are experiencing copy guard protection.
	Cannot remove the tape.	<ul style="list-style-type: none"> Check if the player is in the VCR mode. If not, press the VCR button on the remote control to switch the mode.
D V D	No picture.	<ul style="list-style-type: none"> Connect the video cables firmly. Insert a correct video disc that plays on this player. Press the DVD button on the remote control. Check if the DVD OUTPUT light is lit. Then try other DVD features. Check if the INTERLACE/PROGRESSIVE mode is set correctly according to your TV. See page 7.
	Disc cannot be played.	<ul style="list-style-type: none"> Insert the disc. Clean the disc. Place the disc correctly with the label side up. Cancel the parental lock or change the control levels. Handle a disc with special care so that it does not have fingerprints, scratches, or dusts on its surface.
	No sound.	<ul style="list-style-type: none"> Connect the audio cables firmly. Turn the power of the audio component on. Correct the audio output settings. Correct the input settings on the audio component.
	No DTS audio is output.	<ul style="list-style-type: none"> This player does not support DTS audio. This is not a malfunction.
	Distorted picture.	<ul style="list-style-type: none"> Connect the player directly to the TV. There are some cases where pictures may be slightly distorted, and those are not a sign of a malfunction. Although pictures may stop for a moment, this is not a malfunction.
	Audio or subtitle language does not match the set up.	<ul style="list-style-type: none"> The selected language is not available for audio or subtitles on the DVD. This is not a malfunction.
	The camera angle cannot be changed.	<ul style="list-style-type: none"> The DVD does not contain sequences recorded from different camera angles. This is not a malfunction.
	Audio or subtitle language cannot be changed.	<ul style="list-style-type: none"> The DVD does not contain audio source or subtitles in the selected language. This is not a malfunction.
	"Prohibited icon" appears on the screen, prohibiting an operation	<ul style="list-style-type: none"> That operation is prohibited by the player or the disc. This is not a malfunction.

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Owner's Manual for details on correct operations.
- Playback from a desired track and random playback are not available during program playback.
- Some functions are prohibited on some discs.

Specifications

Video Heads :

Four Heads

Output signal format :

NTSC color

Power source :

120 V AC +/- 10%, 60 Hz +/- 0.5%

Power consumption :

21 W (standby: 3.6W)

Operating temperature :

41°F (5°C) to 104°F (40°C)

Dimensions :

W : 17 3/16" (435mm)

H : 3 3/4" (94mm)

D : 9 3/16" (233mm)

Weight :

Approx 6lbs (2.7kg)

• Designs and specifications are subject to change without notice.

• If there is a discrepancy between languages, the default language will be English.

Language List

Language	Code	Language	Code	Language	Code	Language	Code		
A-B		French [FRE]	5264	Macedonian	5957	Siswat	6565		
Abkhazian	4748	Frisian	5271	Malagasy	5953	Slovak	6557		
Afar	4747	Galician	5358	Malay	5965	Slovenian	6558		
Afrikaans	4752	Georgian	5747	Malayalam	5958	Somali	6561		
Albanian	6563	German [GER]	5051	Maltese	5966	Spanish [SPA]	5165		
Amharic	4759	Greek [GRE]	5158	Maori	5955	Sundanese	6567		
Arabic	4764	Greenlandic	5758	Marathi	5964	Swahili	6569		
Armenian	5471	Guarani	5360	Moldavian	5961	Swedish [SWE]	6568		
Assamese	4765	Gujarati	5367	Mongolian	5960	T			
Aymara	4771	Hausa	5447	Nauru	6047		Tagalog	6658	
Azerbaijani	4772	Hebrew	5569	Nepali	6051		Tajik	6653	
Bashkir	4847	Hindi	5455	Norwegian [NOR]	6061		Tamil	6647	
Basque	5167	Hungarian [HUN]	5467	O-R		Tatar	6666		
Bengali; Bangla	4860	I-K		Occitan	6149	Telugu	6651		
Bhutani	5072		Icelandic [ICE]	5565	Oriya	6164	Thai	6654	
Bihari	4854		Indonesian	5560	Oromo (Afan)	6159	Tibetan	4861	
Bislama	4855		Interlingua	5547	Panjabi	6247	Tigrinya	6655	
Breton	4864	Interlingue	5551	Pashto; Pushto	6265	Tonga	6661		
Bulgarian	4853	Inupiak	5557	Persian	5247	Tsonga	6665		
Burmese	5971	Irish [IRI]	5347	Polish	6258	Turkish [TUR]	6664		
Byelorussian	4851	Italian [ITA]	5566	Portuguese [POR]	6266	Turkmen	6657		
C-E		Japanese [JPN]	5647	Quechua	6367	Twi	6669		
	Cambodian	5759	Javanese	5669	Rhaeto-Romance	6459	U-Z		
	Catalan	4947	Kannada	5760	Romanian [RUM]	6461		Ukrainian	6757
	Chinese [CHI]	7254	Kashmiri	5765	Russian [RUS]	6467		Urdu	6764
Corsican	4961	Kazakh	5757	S		Uzbek		6772	
Croatian	5464	Kinyarwanda	6469		Samoan	6559		Vietnamese	6855
Czech	4965	Kirghiz	5771		Sangho	6553	Volapuk	6861	
Danish [DAN]	5047	Kirundi	6460		Sanskrit	6547	Welsh	4971	
Dutch [DUT]	6058	Korean [KOR]	5761	Scots Gaelic	5350	Wolof	6961		
English [ENG]	5160	Kurdish	5767	Serbian	6564	Xhosa	7054		
Esperanto	5161	L-N		Serbo-Croatian	6554	Yiddish	5655		
Estonian	5166		Laotian	5861	Sesotho	6566	Yoruba	7161	
F-H			Latin	5847	Setswana	6660	Zulu	7267	
	Faroese		5261	Latvian; Lettish	5868	Shona	6560		
	Fiji	5256	Lingala	5860	Sindhi	6550			
	Finnish [FIN]	5255	Lithuanian	5866	Singhalese	6555			

If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on page 19. If you choose any other languages, '---' will be displayed instead. (3 letter language code is written in bracket.)

SYLVANIA HOME ENTERTAINMENT WARRANTY

We appreciate your purchase of a SYLVANIA Home Entertainment product. We take pride in the quality of our products and have manufactured your new Home Entertainment unit to exacting quality standards. We feel confident that in normal use, it will provide you with satisfactory performance. However, should you experience difficulty, you are protected under the provisions of this warranty.

SYLVANIA Home Entertainment products are warranted against manufacturing defects in materials and workmanship in normal use for the following period from the date of purchase by the original user, and is conditional upon the unit being installed and used as directed in the instruction manual.

PRODUCT	PARTS AND LABOUR
D.V.D. / VCR	1 year
Video Head	6 months
Remote Control	90 days

SYLVANIA's obligation under this warranty shall be limited to the repair, including all necessary parts and the cost of the labour connected therewith, or at our option the exchange of any Home Entertainment product which shows evidence of a manufacturing defect within the warranty period.

Replacement parts, furnished in connection with this warranty shall be warranted for a period equal to the unexpired portion of the original equipment warranty.

CUSTOMER OBLIGATIONS

This warranty applies to the product from the original date of purchase at retail. Therefore, the owner must provide a copy of the original, dated bill of sale. No warranty service will be performed without a bill of sale. Transportation to and from the service depot is the responsibility of the owner.

WARRANTY EXCLUSIONS

This warranty is extended to SYLVANIA Home Entertainment products purchased and used in Canada. This warranty shall not apply to appearance or accessory items including but not limited to: antenna, cabinet, cabinet parts, knobs, batteries, connecting cables, cassette tapes, compact discs. This warranty shall, in addition, not apply to damages due to handling, transportation, unpacking, set-up, installation, customer adjustments that are covered in the instruction book, repair or replacement of parts supplied by other than the SYLVANIA authorized service depot, any malfunction or failure caused by or resulting from abnormal environmental conditions, improper unauthorized service, improper maintenance, modifications or repair by the consumer, abuse, misuse, neglect, accident, fire, flood, or other Acts of God, and incorrect line voltage.

This Home Entertainment product is only warranted to the original retail purchaser. This warranty becomes void in the event of commercial or rental use. This warranty becomes void in the event serial numbers are altered, defaced or removed.

SYLVANIA reserves the right to make changes in design or to make additions to or improvements upon this product without incurring any obligation to install the same on products previously manufactured. The foregoing is in lieu of all other warranties expressed or implied and SYLVANIA neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the sale or service of this product. In no event shall SYLVANIA or its SYLVANIA dealers be liable for special or consequential damage arising from the use of this product, or for any delay in the performance of this warranty due to cause beyond our control.

The purchaser may have other rights under existing provincial or federal laws, and where any terms of this warranty are prohibited by such laws, they are deemed null and void, but the remainder of the warranty shall remain in effect.

HOW TO OBTAIN SERVICE

Should this product require service, you may obtain specific information on how to obtain service by contacting the SYLVANIA Dealer from whom this product was purchased, or by contacting us directly:

SONIGEM SERVICE

300 Alden Road
Markham, Ontario
L3R 4C1

PHONE: (905) 940-5089 FAX: (905) 940-2303
1-800-287-4871

MEMO

Quick Use Guide

1 Connections

Please refer to "Basic TV Connection" on the front page before you use this unit.

RF Output Channel

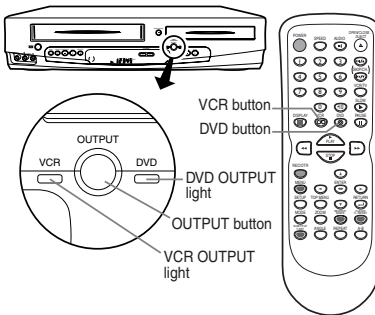
If channel 3 is already occupied for broadcasting,

- 1) Set your TV to channel 4.
- 2) Insert a pre-recorded tape into this unit.
- 3) Press the OUTPUT button on the DVD/VCR so that the VCR OUTPUT light is lit.
 - If "VCR" light does not appear on the display of this unit, press the VCR/TV button on the remote control.
- 4) Press the PLAY button once.
- 5) After a few seconds, press the PLAY button on the DVD/VCR for 3 seconds.
 - The RF output channel will change to channel 4 from channel 3 and you will see a playback picture.
 - When a picture does not appear on the TV screen, repeat step [4].
- 6) Press the STOP button to stop playback.

2 Installing the Batteries for the Remote Control



3 VCR/DVD Switching



VCR MODE

Press the **VCR button** on the remote control.
(Verify that the VCR OUTPUT light is lit.)

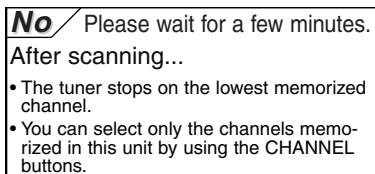
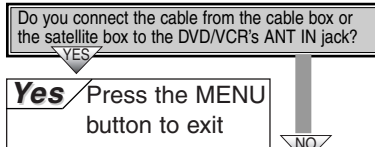
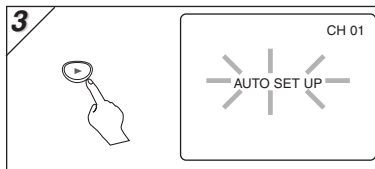
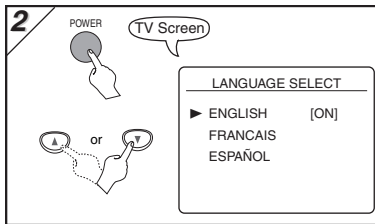
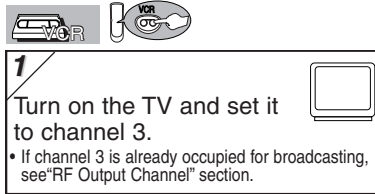
DVD MODE

Press the **DVD button** on the remote control.
(Verify that the DVD OUTPUT light is lit.)

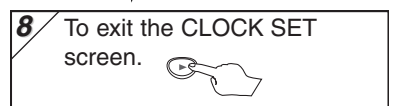
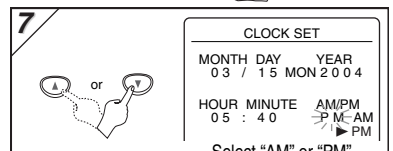
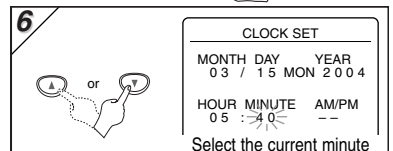
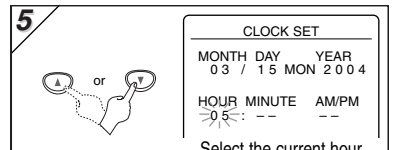
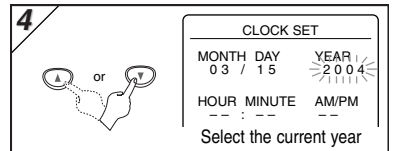
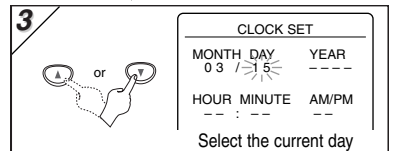
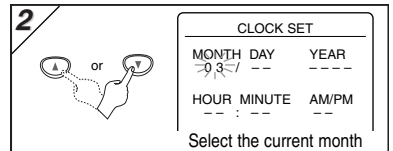
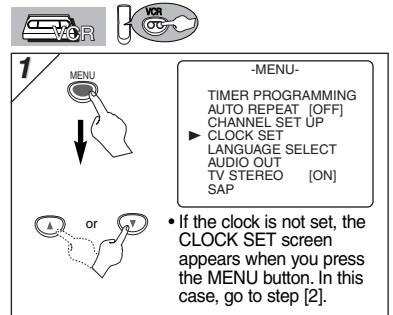
Note

- Pressing only the **OUTPUT button** on the front panel DOES NOT switch the mode of the remote control. You MUST select the correct mode on the remote control, too.

4 Turn on the unit for the first time



5 Clock Set Up

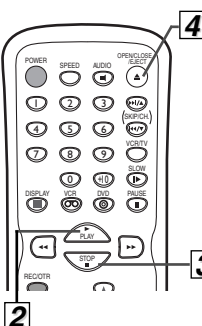
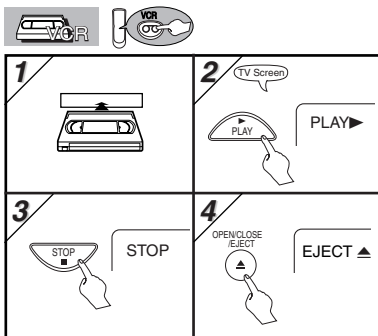


Quick Use Guide

6 VCR Playback

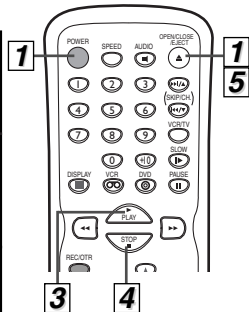
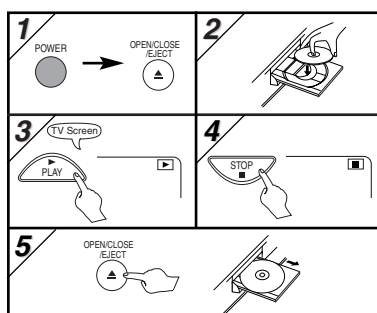
Turn on the TV and set it to channel 3.

- If channel 3 is already occupied for broadcasting, see "RF Output Channel" section.

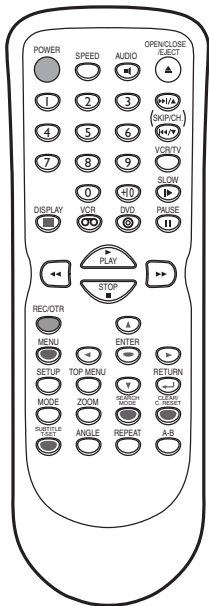


7 DVD/CD Playback

Turn on the TV, amplifier and any other components which are connected to this unit. Make sure the TV and audio receiver (commercially available) are set to the correct channel.



8 Remote Control



Button (Alphabetical order)	Disc/Tape	DVD mode	VCR mode
POWER		• To select chapter or title directly.	• To select channel. • The +10 button has no effect in VCR mode.
1 2 3 4 5 6 7 8 9 0		• To search forward/backward through a disc. • To begin slow forward/reverse playback during the pause mode.	• To forward/backward a tape.
ENTER		• To move the cursor and determine its position.	• To select an item on the VCR Menu. • To advance to the next VCR Menu. • To go back one step during clock and timer setting.
A-B		• To repeat between your chosen point A and B.	—
ANGLE		• To select camera angles on a disc.	—
AUDIO		• To select audio languages on a disc.	—
CLEAR/RESET		• To clear the markers. • To clear the numbers entered incorrectly.	• To exit the VCR Menu. • To reset the tape counter.
DISPLAY		• To display the current disc mode. • To activate the remote control in DVD mode.	• To display the current time, tape counter, and channel.
DVD		• To select the DVD output mode. • To activate the remote control in DVD mode.	—
MENU		• To call up the Menu on a disc.	• To call up the VCR Menu.
MODE		• To set black level on/off. • To set virtual surround on/off.	—
OPEN/CLOSE EJECT		• To open or close the disc tray.	• To eject the video cassette from the VCR.
PAUSE		• To pause disc playback. • To advance playback one frame at a time.	• To pause tape playback or recording. • To advance playback one frame at a time.
PLAY		• To begin disc playback.	• To begin tape playback.
POWER		• To turn the unit on or off.	• To turn the unit on or off.
REC/OTR		—	• To start a recording.
REPEAT		• To play a chapter or title repeatedly.	—
RETURN		• To return to the previous operation on the DVD setup menu.	—
SEARCH		• To search chapter, title or time. • To rapidly return to a location of disc. • Search the markers.	• To call up the index or time search menu.
SETUP		• To call up the DVD setup menu.	—
SKIP/CH. SKIP/CH.		• To skip chapters.	• To change channels. • To adjust the tracking manually during playback.
SLOW		—	• To view the tape in slow motion.
SPEED		—	• To select the recording speed.
STOP		• To stop playback.	• To stop playback or recording.
SUBTITLE		• To select subtitles on a disc.	• To put the VCR into standby mode for a timer recording.
TOP MENU		• To call up the Top Menu on a disc.	—
VCR		—	• To select the VCR output mode. • To activate the remote control in VCR mode.
VCR/TV		• To select DVD position or TV position.	• To select VCR position or TV position.
ZOOM		• To magnify part of a picture. (x2/x4)	—