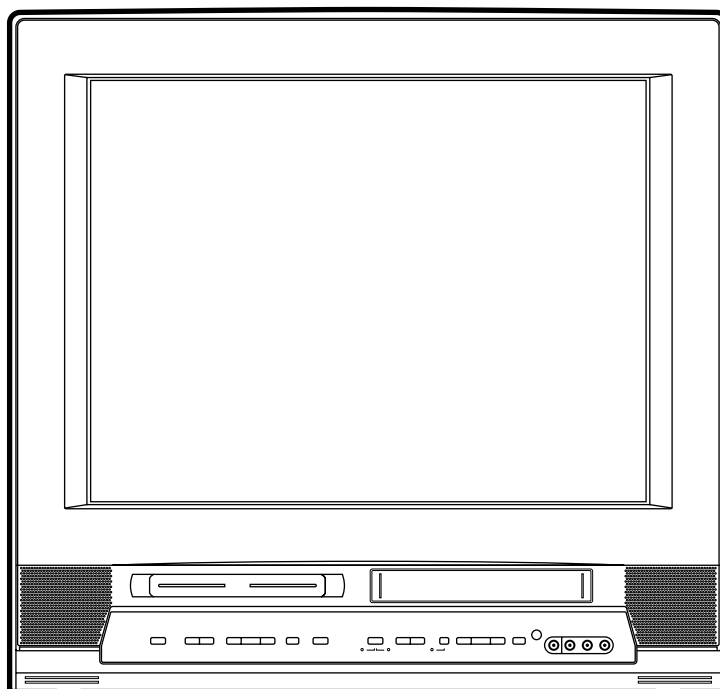


OWNER'S MANUAL

SYLVANIA

COLOR TV/VCR/DVD TRIPLE COMBO **6724DF (24 inch)**



INSTRUCCIONES EN ESPAÑOL INCLUIDAS

If you need additional operating assistance after reading this owner's manual or to order replacement accessories, please call
TOLL FREE : 1-800-968-3429.
Or visit our **WEB SITE** at <http://www.SylvaniaConsumerElectronics.com>.

VHS

Please read before using this equipment

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.



THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.



THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The caution marking is located on the rear of the cabinet.

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 the unit 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 unit manufacturer as they may cause hazards.
7. **Water and Moisture** - Do not use this unit 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 unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to someone, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the unit. 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



S3126A

AMEUBLES - Cet appareil ne doit être placé que sur un meuble (avec ou sans roulettes) recommandé par le fabricant. Si vous l'installez sur un meuble à roulettes, déplacez les deux ensembles avec précaution. Un arrêt brusque, l'utilisation d'une force excessive et des surfaces irrégulières risquent de déstabiliser l'ensemble et de le renverser.

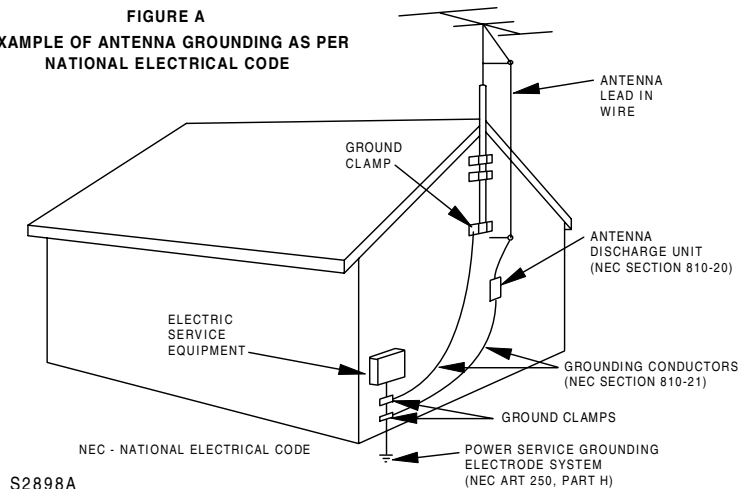
SYMBÔLE D'AVERTISSEMENT POUR
LES COMPOSANTES
APPAREIL ET MEUBLE À ROULETTES



S3126A

9. **Ventilation** - Slots and openings in the cabinet and the back or bottom are provided for ventilation and to ensure reliable operation of the unit and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat register. This unit 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 unit 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 the units intended to operate from battery power, or other sources, refer to the operating instructions.
11. **Grounding or Polarization** - This unit 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.

FIGURE A
EXAMPLE OF ANTENNA GROUNDING AS PER
NATIONAL ELECTRICAL CODE



13. **Outdoor Antenna grounding** - If an outside antenna or cable system is connected to the unit, 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 respect 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 unit receiver 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 unit 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 unit through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.
18. **Servicing** - Do not attempt to service this unit 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 unit 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 or frayed.
 - b. If liquid has been spilled, or objects have fallen into the unit.
 - c. If the unit has been exposed to rain or water.
 - d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
 - e. If the unit has been dropped or damaged in any way.
 - f. When the unit 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 that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, injury to persons or other hazards.
21. **Safety Check** - Upon completion of any service or repairs to this unit, ask the service technician to perform routine safety checks to determine that the unit is in proper operating condition.
22. **Heat** - This unit product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

PRECAUTIONS

IMPORTANT COPYRIGHT INFORMATION

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

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.

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.

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

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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

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

The serial number of this product may be found on the back of the unit. No other unit has the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft. Serial numbers are not kept on file.

Date of Purchase	
Dealer Purchase from	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

LOCATION

For safe operation and satisfactory performance of your unit, keep the following in mind when selecting a place for its installation:

- 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 at the top or bottom of the unit. Do not place the unit on a carpet because this will block the ventilation holes.
- Install unit in a horizontal position.
- Avoid locations subject to strong vibration.
- Do not place the unit near strong magnetic fields.
- Avoid moving the unit to locations where temperature differences are extreme.
- Be sure to remove disc and unplug the AC power cord from the outlet before carrying the unit.

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 an AC wall outlet. Grasp it by the plug.
- If by accident, water is spilled on your unit, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.
- Do not put your fingers or objects into the unit disc loading tray.
- Do not place anything directly on top of the unit.

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. If a DVD is played in a unit which has moisture, it may damage the DVD and the unit. Therefore when the condensation occurs inside the unit, turn the unit on and allow at least 2 hours for the unit to dry out.

SYMBOLS USED IN THIS MANUAL

The following symbols below appear in some headings and notes in this manual, with the following meanings.

TV/VCR

: Description refers to TV/VCR operation (in the TV/VCR mode).

DVD-V

: Description refers to playback of DVD video discs (in the DVD mode).

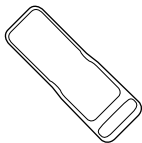
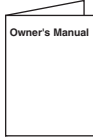
CD

: Description refers to playback of Audio CDs (in the DVD mode).

QUICK

: Description refers to the items to be set by the QUICK mode (in the DVD mode).

SUPPLIED ACCESSORIES

Remote Control Unit	Batteries	Owner's Manual
		
NE209UD	2 AA Batteries	1EMN21011

- If you need to replace these accessories, please refer to the PART NO. under the illustrations and call our help line mentioned on the front page.
- Depending on your antenna system, you may need different types of Combiners (Mixer) or Separators (Splitter). Contact your local electronics store for these items.

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FEATURES

TV/VCR Mode

- **Hi-Fi system**

The Hi-Fi stereo recording system offers you excellent sound quality with a dynamic range of 80dB, frequency response from 20Hz to 20kHz and 0.005% wow and flutter.

- **Rotary 4-head Record/Playback System**

Four heads ensure excellent picture quality and special effects playback.

- **Index Search**

Fast-forwards to start of next recording.

- **Slow Motion**

View recorded program at slower than normal speed.

- **Infrared remote control**

- **Trilingual on screen TV/VCR setup display selectable in English, Spanish or French**

- **Real time counter**

This shows the elapsed recording or playback time in hours, minutes and seconds. The “-” indication will appear when the tape is rewound further than the tape counter position “0:00:00”.

- **181 channel capability PLL frequency synthesizer tuner with direct station call**

(A converter may be necessary to view scrambled cable channels.)

- **Auto Clock Setting**

Allows you to set the clock function from a PBS broadcast station.

- **Closed Caption Decoder**

You may view specially labeled (cc) TV programs, movies, news, prerecorded tapes, etc. with either a dialogue caption or text display added to the program.

- **V-CHIP**

Enables parents to prevent their children from watching inappropriate material on TV.

- **Auto power on and off system**

Automatically turns on the unit when you insert the cassette, turns off after auto-rewind and ejects when the beginning of the tape is reached.

- **Auto rewind when the end of a tape is reached**

(This function doesn't occur when using timer recording.)

- **Smooth mode change**

TV/VCR mode and DVD mode automatically changes without control.

- **2 Step picture search operation**

You can view a video program at a high speed or super high speed in either a forward or reverse direction in LP and SLP mode. For SP mode, only high speed is available.

- **Three different playback tape speeds : SP/LP/SLP**

- **Two different recording tape speeds : SP/SLP**

- **Auto Head Cleaner**

Automatically cleans video heads as you insert or remove a cassette.

- **Zero Return**

The tape returns to counter of 0:00:00 by rewinding or fast forwarding.

- **Still**

“Freeze” the picture at any time, for close viewing of a particular scene.

- **Digital Auto Tracking (DTR)**

Automatically adjusts the tracking for each tape you play.

- **Rental play mode**

Improves playback picture quality from worn tapes, such as rental tapes.

- **Auto repeat**

Allows you to repeat the playing of a tape indefinitely without pressing [PLAY ▷].

- **Time search**

Lets you set the unit to advance the tape by entering the desired playback time you want to skip.

- **OTR (One Touch Recording)**

Instant timed recording from 30 to 480 minutes is possible by pressing [● REC/OTR].

- **1 Year, 8 events (including Daily and Weekly) Timer Recording**

The built-in timer allows you to record up to 8 programs at different times on different channels up to 1 year in advance. The Daily timer allows recordings to be made of daily broadcasts and the Weekly timer allows recording to be made once a week up to the end of the tape.

- **Auto return**

After timer recording is finished, the unit can return to the beginning of the recording.

- **Sleep timer**

Allows you to have the unit automatically turn off at a desired time.

- **Timer Program Extension**

Allows you to shift the time schedule for automatic timer recording.

DVD Mode

- **Dolby Digital sound**

This unit can handle Dolby Digital surround sound having 5.1 channels when connected to a Dolby Digital decoder.

- **Still/fast/slow/step playback**

Various playback modes are available including still pictures, fast forward/reverse, slow motion and step frames.

- **Random playback for Audio CD**

This unit can shuffle the order of tracks to play them in random order.

- **Program playback for Audio CD**

You can program the order of tracks to play them in any desired order.

- **DVD menus in a desired language**

You can display DVD menus in a desired language, if available on a DVD.

- **Screen saver/Auto power-off functions**

The screen saver program starts when there is no input from the unit for 5 minutes in the stop mode. After the screen saver program is activated for 15 minutes, the power automatically turns off.

- **Subtitles in a desired language**

You can select a desired language for the display subtitles, if that language is available on a disc.

- **Selecting a camera angle**

You can select the desired camera angle, if a disc contains sequences recorded from different angles.

- **Choices for audio language and sound mode**

You can select the desired audio language and sound mode, if different languages and modes are available on a disc.

- **Parental lock**

You can set the control level to limit playback of discs which may not be suitable for children.

- **Automatic detection of discs**

This unit automatically detects if the loaded disc is DVD or Audio CD.

- **On-screen display**

Information about the current operation can be displayed on a TV screen, allowing you to confirm the currently active functions (such as program playback), on the TV screen using the remote control.

- **Search**

Chapter search / Title search / Track search / Time search

- **Repeat**

Chapter / Title / Track / All / A-B

- **Zoom**

Magnified screen can be displayed.

- **Marker**

The part designated by user can be called back.

- **Resume Play**

User can resume to playback from the part at which the play was stopped.

- **Virtual Surround**

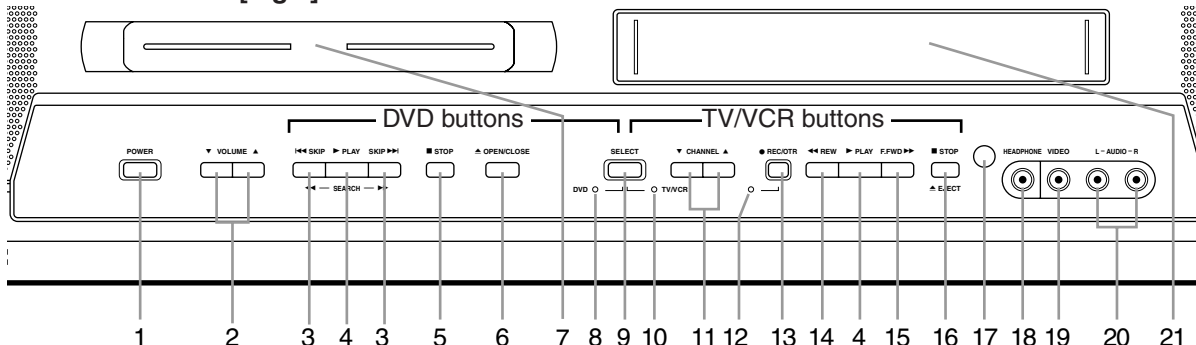
- **Bit rate indication**

- **DRC (Dynamic range control)**

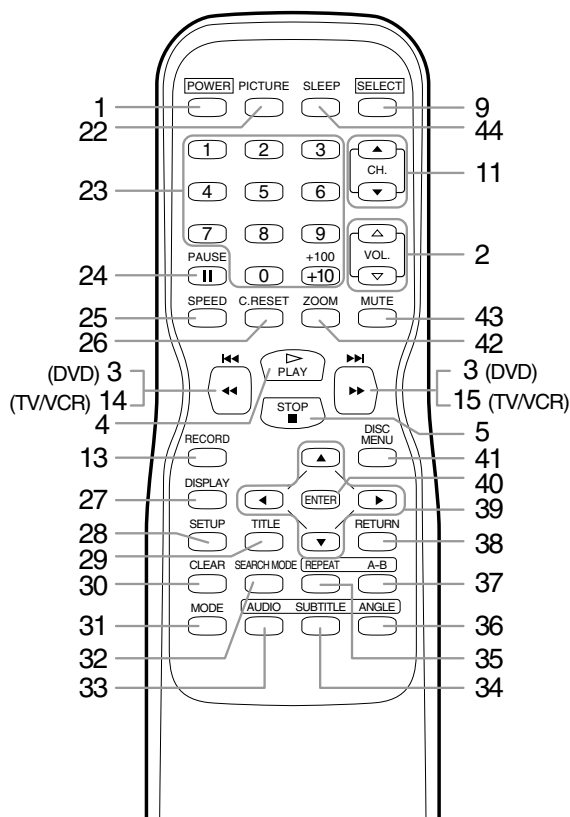
You can control the range of sound volume.

OPERATING CONTROLS AND FUNCTIONS

- FRONT PANEL - [Fig.1]



- REMOTE CONTROL - [Fig. 2]



1. **POWER Button** [TV/VCR P.15 / DVD P.36]

Press to turn the power on and off.

2. **VOLUME (VOL.) ▲ / ▼ Buttons**

Press to control the volume level for the DVD and TV.

3. **SKIP ◀◀ / ▶▶ Buttons (for DVD)** [DVD P.38]

Press once to skip chapters or tracks to a desired point.

SEARCH ◀◀ / ▶▶ Buttons (for DVD) [DVD P.37]

Press and hold to change forward or reverse playback speed.

4. **▶ PLAY Button** [TV/VCR P.25 / DVD P.36]

Starts playback of the disc or tape contents.

5. **■ STOP Button** [TV/VCR P.25 / DVD P.37]

(Front panel) Stops operation of the disc.

(Remote control) Stops operation of the disc or tape contents.

6. **▲ OPEN/CLOSE Button** [DVD P.36]

Press to insert a disc into or remove it from the tray.

7. **Disc loading tray**

8. **DVD Indicator**

Lights up during DVD mode.

9. **SELECT Button** [TV/VCR P.15] [DVD P.36]

Press to change to TV/VCR mode, external input mode or DVD mode. You can see the mode (TV/VCR or DVD) on the front panel indicator.

10. **TV/VCR Indicator**

Lights up during TV/VCR mode.

11. **CHANNEL (CH.) ▲ / ▼ Buttons**

Press to select memorized channels.

12. **Recording Indicator**

Flashes during recording. Lights up in the stand-by mode for Timer Recording.

13. **● REC/OTR Button (Front Panel)** [TV/VCR P.30]

Press to start manual recording. Press repeatedly to start One Touch Recording.

RECORD Button (Remote Control) [TV/VCR P.29]

Press to start manual recording.

14. **◀◀ REW Button (for TV/VCR)** [TV/VCR P.27]

Press to rewind the tape or to view the picture rapidly in reverse during playback mode. (Rewind Search)

15. **F.FWD ▶▶ Button (for TV/VCR)** [TV/VCR P.27]

Press to rapidly advance the tape or to view the picture rapidly in forward during playback mode. (Forward Search)

16. **■ / ▲ STOP/EJECT Button** [TV/VCR P.24, 27]

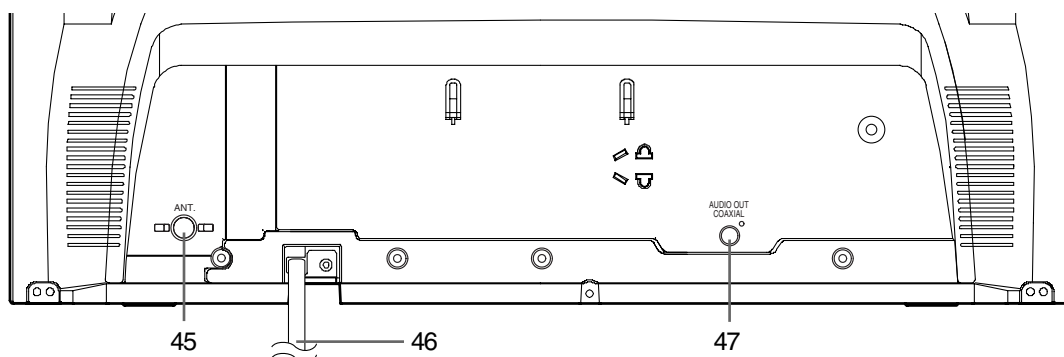
Press to stop the tape motion. Press in the stop mode to remove tape from the unit.

17. **Remote sensor window**

18. **HEADPHONE Jack**

To connect headphone (not supplied) for personal listening.

- REAR PANEL - [Fig.3]



19. VIDEO input Jack

Connect to the video output jack of a video camera or VCR.

20. AUDIO L/R input Jacks

Connect to the audio output jacks of a video camera or VCR.

21. Cassette compartment

22. PICTURE Button

Press to adjust the picture.

23. Number Buttons

TV/VCR Mode: [P.17]

Press two digits to directly access the desired channel.

Remember to press [0] before a single digit channel.

+100 Button—

Press to select cable channels which are higher than 99.

DVD Mode: [P.38]

Press to enter the desired number.

+10 Button—

Press to enter the desired numbers which are higher than 9.

24. PAUSE II Button [TV/VCR P.25 / DVD P.37]

Pauses the current disc or tape operation.

25. SPEED Button [TV/VCR P.29]

Press to choose the desired recording speed: SP/SLP.

26. C.RESET Button [TV/VCR P.27]

Press to reset counter to “0:00:00”.

Press to cancel a setting of timer program. (Refer to page 32.)

27. DISPLAY Button

TV/VCR Mode: [P.22]

Displays the counter or the current channel number and current time on the TV screen.

DVD Mode: [P.42]

Displays the current status on the TV screen.

28. SETUP Button [TV/VCR P.16] [DVD P.43-45]

Press to enter or exit the setup menu of TV or DVD.

29. TITLE Button [DVD P.36]

Displays the title menu.

30. CLEAR Button [DVD P.38]

Press to clear or cancel a setting currently entered.

31. MODE Button [DVD P.39, 41]

Press to call up the program screen or the random screen in the stop mode.

Press to call up the Black Level Setting screen or the Virtual Surround screen during playback.

32. SEARCH MODE Button [DVD P.38]

Press to locate a desired point.

33. AUDIO Button

TV/VCR Mode: [P.23]

Press to select a desired sound mode when watching a TV program or playing or recording a cassette tape.

DVD Mode: [P.40]

Press to select a desired audio language or sound mode.

34. SUBTITLE Button [DVD P.40]

Press to select a desired subtitle language.

35. REPEAT Button [DVD P.39]

Repeats playback of the current disc, title, chapter, or track.

36. ANGLE Button [DVD P.41]

Press to change the camera angle to see the sequence being played back from a different angle (if available).

37. A-B Button [DVD P.39]

Repeats playback of a selected section.

38. RETURN Button [TV/VCR P.32] [DVD P.38]

Returns to the previous screen in the setup menu.

39. ▲ / ▼ / ◀ / ▶ Buttons

TV/VCR Mode: [P.15]

Press to select a setting mode from the menu on the TV screen.

Press to select or adjust from a particular menu.

DVD Mode: [P.36]

Press to select a menu item.

40. ENTER Button [TV/VCR P.16] [DVD P.36]

Press to accept a setting.

41. DISC MENU Button [DVD P.36]

Calls up the DVD menu.

42. ZOOM Button [DVD P.37]

Enlarges part of a DVD-reproduced image.

43. MUTE Button [TV/VCR P.15]

Mutes the sound. Press it again to restore sound.

44. SLEEP Button [TV/VCR P.16]

Sets the Sleep Timer.

45. ANT. Jack [P.12]

Connect to an antenna, cable system or satellite system.

46. Power cord [P.15]

Connect to a standard AC outlet (120V/60Hz).

NOTE:

- Remove the power cord from the hook to avoid breaking a wire before you connect to a standard AC outlet.

47. AUDIO OUT COAXIAL Jack [P.13]

Connect to the digital input of an external amplifier or decoder (for DVD Audio only).

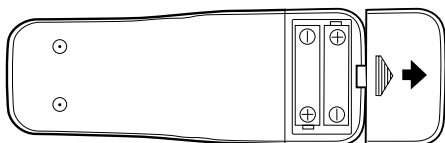
NOTE:

- We do not recommend the use of universal remote controls. Not all of the functions may be controlled with a universal remote control.

If you decide to use a universal remote control with this unit, please be aware that the code number given may not operate this unit. In this case, please call the manufacturer of the universal remote control.

INSTALLING THE BATTERIES

- 1) Open the battery compartment cover by pressing the cover on the remote unit in the direction of the arrow.
- 2) Insert 2 “AA” penlight batteries into the battery compartment in the direction indicated by the polarity (+/-) markings.
- 3) Replace the cover.

**[BATTERY PRECAUTIONS]**

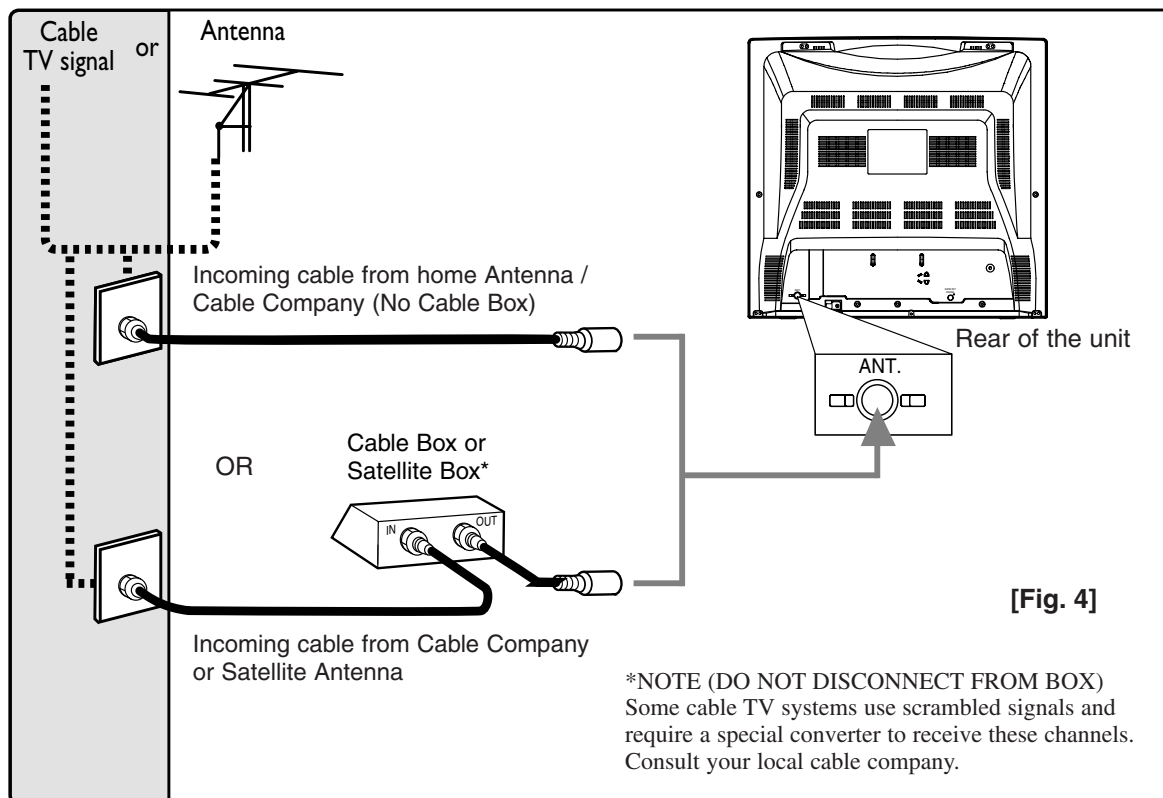
- Be sure to follow the correct polarity as indicated in the battery compartment. Reversed batteries may cause damage to the device.
- Do not mix different types of batteries together (e.g. Alkaline and Carbon-Zinc) or old batteries with fresh ones.
- If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
- Do not try to recharge batteries not intended to be recharged; they can overheat and rupture.

PREPARATION FOR USE

ANTENNA/CABLE CONNECTIONS

Plug the incoming cable into the ANT. jack on the rear of the unit.

If your cable service supplies you with a converter box or if you use a satellite system, connect the box with this unit as shown below.

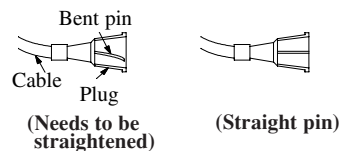


Note to CATV system installer:

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 shall be connected to the grounding system of the building as close to the point of cable entry as practical.

NOTE:

Before plugging the antenna into the ANT. jack of the unit, check that the pin is not bent. If it is bent, straighten the pin as illustrated, then plug the pin into the ANT. jack of the unit.



For your safety and to avoid damages to the unit, unplug the antenna cable from the ANT. jack before moving the unit.

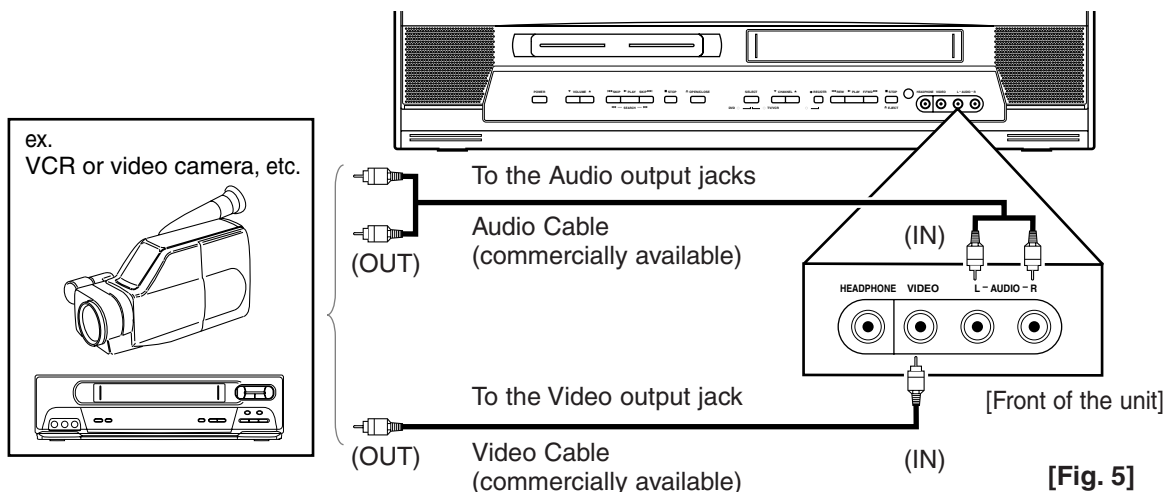
CONNECTING TO FRONT A/V INPUT JACKS

When you watch a program recorded on another source (VCR or video camera), use the AUDIO/VIDEO input jacks on the front of the unit.

Connect the Audio/Video output jacks of another source to the AUDIO L/R and VIDEO jacks of this unit.

Then press [SELECT] or [CH. ▲ / ▼] until “AUX” appears on the screen.

AUX



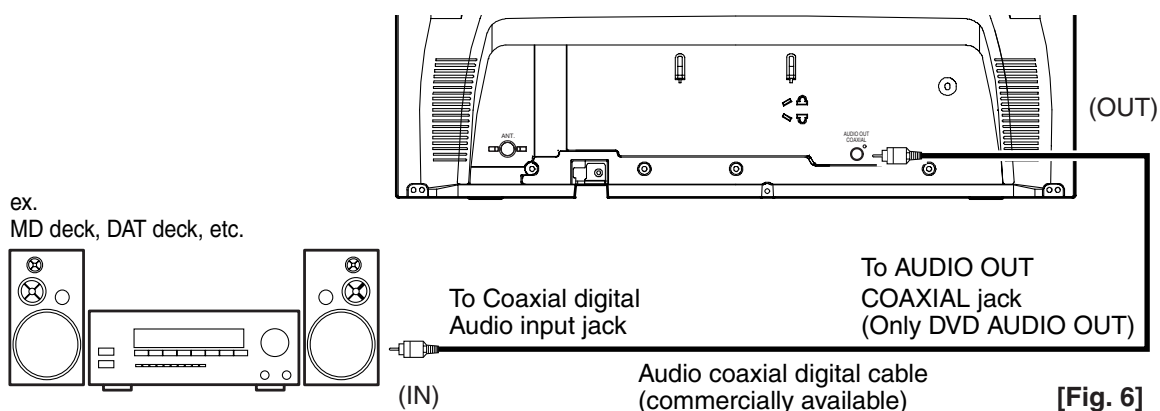
NOTE:

- When you connect a monaural VCR (another source) to this unit, connect the Audio output jack of the monaural VCR (another source) to the AUDIO L jack of this unit. The audio will output in both L and R channel equally.

CONNECTING TO A STEREO AMPLIFIER EQUIPPED WITH DIGITAL INPUT JACKS (for DVD)

Use an audio coaxial digital cable (commercially available) for the audio connections.

Connect to an amplifier equipped with digital input jacks such as MD Deck or DAT Deck.



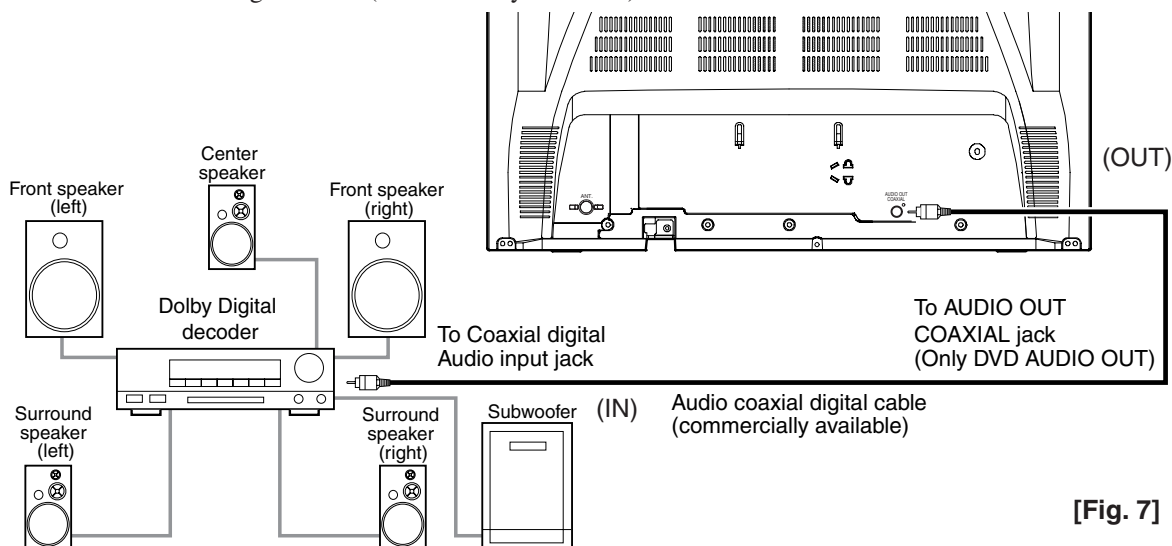
NOTES:

- The audio source on a disc in a 5.1 channel Dolby Digital surround format cannot be recorded as digital sound by an MD or DAT deck.
- Be sure to turn off the power to all components in the system before connecting another component.
- Refer to the Owner's Manuals for the components to be connected to the unit.
- Set “DOLBY DIGITAL” to “PCM” for audio output in the setup mode. Playing a unit using incorrect settings may generate noise distortion and may also damage the speakers. (Refer to page 44.)

CONNECTING TO A DOLBY DIGITAL DECODER (for DVD)

If using this unit to play a DVD disc in a 5.1 channel Dolby Digital surround format, the unit outputs a DOLBY DIGITAL Data stream from its AUDIO OUT COAXIAL jack. By hooking the unit up to a Dolby Digital decoder, you can enjoy a more convincing, realistic ambience with powerful and high-quality surround sound as enjoyed in movie theaters.

Use an audio coaxial digital cable (commercially available) for the audio connections.



[Fig. 7]

NOTES:

- Be sure to turn off the power to all components in the system before connecting another component.
- Refer to the Owner's Manuals for the components to be connected to the unit.
- If connected to a Dolby Digital decoder, set "DOLBY DIGITAL" to "BITSTREAM" for audio output in the setup mode. (Refer to page 44.)
- Unless connected to a Dolby Digital decoder, set "DOLBY DIGITAL" to "PCM" for audio output in the setup mode. Playing a unit using incorrect settings may generate noise distortion and may also damage the speakers. (Refer to page 44.)

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

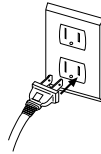
TV OPERATION AND SETTINGS

WATCHING A TV PROGRAM

TV/VCR

1 Plug in the unit power cord

Plug the unit power cord into a standard AC outlet.



NOTE:

- If any digits appear in the corner of the screen, press [POWER] without unplugging the power cord.

2 Turn on the unit

Press [POWER] to turn on the unit.

3 Select the channel number

Use [CH. ▲ / ▼] or the **Number buttons** to select your desired channel number.

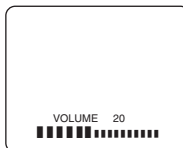
Notes for using the Number buttons:

- You must precede single-digit channel numbers with a zero (for example: 02, 03, 04 and so on).
- When selecting cable channels which are higher than 99, press [+100] first, then press the last two digits. (Example: to select channel 125, first press [+100] then press [2] and [5].)

4 Adjust sound

Use [VOL. ▲ / ▼] to adjust the volume.

Press [MUTE] to instantly mute the sound. Press it again to restore the previous sound level.



NOTE:

- If you use [CH. ▲ / ▼] in the DVD mode, you can change the TV channels. Even if you turn off the unit in the DVD mode, when you turn it on again, it will go into the TV/VCR mode.

TO WATCH CABLE OR SATELLITE CHANNEL

- If the unit is connected to a cable box or satellite box, use [CH. ▲ / ▼] to select CH3 or CH4 according to the output channel setting of the device, and select desired channel on that device.

TO WATCH EXTERNAL INPUT

- When an external equipment is connected to the front AUDIO/VIDEO input jacks, press [SELECT] or [CH. ▲ / ▼] repeatedly until "AUX" appears on the screen.

DEGAUSSING

TV/VCR

This television has a degaussing circuit that will clear up color errors on the TV screen that are caused by any excess magnetism which happens to get too close to the TV. This circuit is designed to operate once when the set is first plugged in. **If minor color errors are seen in some locations on the screen, please unplug the TV for approximately 30 minutes.** When the TV is plugged back in, the degaussing circuit will operate once to clear them up. Repeat this procedure any time the TV screen is accidentally magnetized or when the TV is moved or relocated.

PICTURE CONTROL

TV/VCR

The unit's picture controls – **BRIGHT, CONTRAST, COLOR, TINT** and **SHARPNESS** – are preset to factory specifications. Although they are usually the best, you may need to make some further adjustments for a more natural looking image.

Make sure ...

- The unit must be turned on.

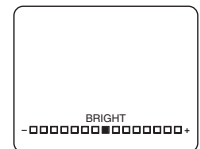
1 Call up the menu

Press [PICTURE].

2 Select item you want to adjust

Use [▲ / ▼] until desired control is displayed.

BRIGHT
CONTRAST
COLOR
TINT
SHARPNESS



3 Adjust the setting

Use [◀ / ▶] to adjust to your desired level within 5 seconds.

	◀	▶
BRIGHT	to decrease brightness	to increase brightness
CONTRAST	to decrease contrast	to increase contrast
COLOR	to pale	to brilliant
TINT	to purple	to green
SHARPNESS	to soft	to clear

- Even if there is a power failure of any kind, the unit will retain its memory for this feature.

SLEEP TIMER

TV/VCR

The Sleep Timer function turns off the unit without using [POWER] after a desired period of time.

NOTE:

- This function does not work during the recording mode.

1 Call up the Sleep Timer Setting

Press [SLEEP] so that "SLEEP 0 MINUTE" appears.

2 Set sleep time

Press [SLEEP] repeatedly until your desired sleep time appears. Each additional press will increase the time by 30 minutes up to 120 minutes.

After 5 seconds, the Sleep Timer setting will disappear automatically.

SLEEP 120 MINUTE

TO CANCEL THE SLEEP TIMER

Press [SLEEP] to call up the Sleep Timer Setting. Press [SLEEP] repeatedly until "SLEEP 0 MINUTE" appears.

CLOSED CAPTION SYSTEM

TV/VCR

You can view specially labeled (cc) TV programs, movies, news and pre-recorded tapes with either a dialogue caption or text display.

CAPTION mode: You can watch dramas, movies and news while captioning the dialogues and the contents of news.

TEXT mode: You can watch half screen text information if you want.

1-2: You may get these captions or text information by selecting either "1" or "2". Caption "2" is usually used for a second language if available.

NOTES:

- Not all programs are broadcast with closed captions. Your unit is designed to provide error free closed captions from high quality antenna, cable and VCR signals. Conversely, poor quality signals are likely to result in caption errors or no captions at all. Common signal conditions which may cause caption errors are listed below:
 - Automobile ignition noise
 - Electric motor brush noise
 - Weak snowy reception on TV screen
 - Multiplex signal reception displaying picture ghosts or airplane flutter.
 - Playback of poorly recorded or worn VCR tapes.

- If the unit displays a black box on the TV screen, this means that the unit is set to the TEXT mode. To clear screen, select [CAPTION1], [CAPTION2] or [OFF].

Make sure ...

- The unit must be turned on.

1 Select "CAPTION"

Press [SETUP].

Use [▲ / ▼] to point to "CAPTION".

- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
▶ CAPTION-[OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH

2 Select your desired caption mode

Press [ENTER] repeatedly until your desired caption menu appears.

([CAPTION1], [CAPTION2], [TEXT1] or [TEXT2])

- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
▶ CAPTION-[CAPTION1]
ZERO RETURN
TIME SEARCH
INDEX SEARCH

3 Exit the caption setting mode

Press [SETUP] to exit the menu.

NOTE:

- Even if there is a power failure of any kind, the unit will retain its memory for this feature.

TO CANCEL THE CLOSED CAPTION SYSTEM

Repeat steps **1** to **2** and select [OFF] using [ENTER]. Then press [SETUP] to return to TV mode.

CHANNEL SET UP

TV/VCR

Make sure ...

- The unit must be turned on.

AUTO CHANNEL PROGRAMMING

As the initial setting, this unit has memorized all channels, including the ones not available in your area. This feature automatically puts only available channels into the memory.

1 Select "CHANNEL SET UP"

Press [SETUP].

Using [▲ / ▼] point to "CHANNEL SET UP", then press [ENTER].

- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
▶ CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH

2 Begin channel scanning

Using [▲ / ▼] point to "AUTO CH PROGRAMMING", then press [ENTER].

The tuner scans and memorizes all the active channels in your area.

- CHANNEL SET UP -
ADD / DELETE CH (CATV)
▶ AUTO CH PROGRAMMING

3 After scanning

The tuner stops on the lowest memorized channel.

NOTES:

- When "AUTO CH PROGRAMMING" is activated where there is no TV signal input, "NO TV SIGNALS" will appear on the display after the completion of channel scanning.
- The unit may recognize CATV channels to be TV channels if reception condition is poor. In this case, check the antenna connection and try "AUTO CH PROGRAMMING" again when reception conditions are better.
- Channel memory programming is NOT necessary when connected to a cable box or satellite box. Just select the channel for cable box or satellite input (ex. CH3) on the unit, then select your desired channel on the cable box or satellite box.

NO TV SIGNALS

ADDING/DELETING CHANNELS

The channels you no longer receive or seldom watch can be deleted from the memory. (Of course, you can add the deleted channel into the memory again.)

1 Select "CHANNEL SET UP"

Press [SETUP].

Using [▲ / ▼] point to "CHANNEL SET UP", then press [ENTER].

- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
▶ USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH

2 Select "ADD/DELETE CH"

Using [▲ / ▼] point to "ADD/DELETE CH", then press [ENTER].

- CHANNEL SET UP -
▶ ADD / DELETE CH (CATV)
AUTO CH PROGRAMMING

3 Enter the desired channel number

Use [CH. ▲ / ▼] or the **Number buttons** until your desired channel number appears. (You can also use [▲ / ▼] to enter it.)

- You must precede single-digit channel numbers with a zero (Example: 02 ... 09).
- When selecting cable channels which are higher than 99, press [+100] first, then press the last two digits. (Example: to select channel 125, first press [+100] then press [2] and [5].)

08
ADD / DELETE

(Example: CH8)

4 Delete (or add) it from (or into) memory

Press [ENTER]. The channel number changes to light red. The channel is deleted from memory.

- To delete another channel, repeat steps **3** to **4**.
- If you press [ENTER] again, the channel is memorized again.

Added channel : Light blue
Deleted channel : Light red

5 Exit the channel setup mode

Press [SETUP] to exit the menu.

NOTE:

- To confirm that channel(s) has been deleted or added, use [CH. ▲ / ▼].

CLOCK SET UP (AUTO / MANUAL)

TV/VCR

The unit clock must be set correctly so that VCR timer recording is possible. It is suggested that the clock be set manually when first setting up the unit, then set to [ON] the auto clock setting which will periodically correct the setting if necessary.

NOTE:

- If you cannot receive a station with time signals, auto clock setting cannot be performed. Use manual setting only.

MANUAL CLOCK SETTING

Make sure ...

- The unit must be turned on.

In the example below, the clock is to be set to:

DATE May 6th, 2005
SETTING TIME 5:40PM

1 Select "SETTING CLOCK"

Press [SETUP].

Using [▲ / ▼] point to "SETTING CLOCK", then press [ENTER].

- TV/VCR SETUP -
TIMER PROGRAMMING
▶ SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH

2 Select "MANUAL CLOCK SET"

Using [▲ / ▼] point to "MANUAL CLOCK SET", then press [ENTER].

- SETTING CLOCK -
AUTO CLOCK [ON]
AUTO CLOCK CH SEARCH
AUTO CLOCK CH [02]
▶ MANUAL CLOCK SET
D.S.T. [OFF]

- If there is no local PBS station in your area or on your cable system, select "AUTO CLOCK" and press [ENTER] to turn [OFF] this function before this step.

3 Select the month

Use [▲ / ▼] until your desired month appears.

(Example: May → "05")

Then press [▶]. (Or press [◀] to go back one step.)

- MANUAL CLOCK SET -
MONTH DAY YEAR
05 / 06 FRI 2005
HOUR MINUTE
-- : -- --

4 Select the day

Use [▲ / ▼] until your desired day appears.

(Example: 6th → "06")

Then press [▶].

- MANUAL CLOCK SET -
MONTH DAY YEAR
05 / 06 FRI 2005
HOUR MINUTE
-- : -- --

5 Select the year

Use [▲ / ▼] until your desired year appears.

(Example: "2005")

Then press [▶].

- MANUAL CLOCK SET -
MONTH DAY YEAR
05 / 06 FRI 2005
HOUR MINUTE
-- : -- --

6 Select the hour

Use [▲ / ▼] until your desired hour appears.

(Example: "5", "PM")

Then press [▶].

- MANUAL CLOCK SET -
MONTH DAY YEAR
05 / 06 FRI 2005
HOUR MINUTE
05 : -- PM

7 Select the minute

Use [▲ / ▼] until the desired minute appears.

(Example: "40")

- MANUAL CLOCK SET -
MONTH DAY YEAR
05 / 06 FRI 2005
HOUR MINUTE
05 : 40 PM

8 Start the clock

Press [SETUP].

Although seconds are not displayed, they begin counting from 00 when you press [SETUP]. Use this feature to synchronize the clock with the correct time.

5:40 PM

NOTE:

- When unplugging the AC cord or if there is a power failure for more than 3 seconds, you may have to reset the clock.

TO CHANGE CLOCK SETTING

If you want to change the clock,

- 1) Follow steps **1** to **2**.
- 2) Select the item you want to change using [▶].
- 3) Enter correct numbers using [▲ / ▼].
- 4) Press [SETUP] to start the clock.

AUTOMATIC CLOCK SETTING

Make sure ...

- The unit must be turned on.
- Confirm the unit is receiving a RF (Radio Frequency) signal from either an antenna or cable system connection using the ANT. jack on the rear of the unit.

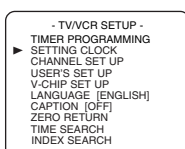
NOTES:

- If a cable converter box is being used, make sure it is powered on.
- You must use the remote control to perform the clock setting procedure.
- If the unit is connected directly to a cable converter box or satellite box, the local PBS station must be selected on the cable box itself and the unit must be set to the output channel of the cable converter box or satellite box (usually channel 3 or 4), to be able to set up or correct the clock automatically.

1 Select "SETTING CLOCK"

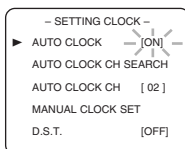
Press [SETUP].

Using [▲ / ▼] select "SETTING CLOCK", then press [ENTER].



2 Set "AUTO CLOCK" to [ON]

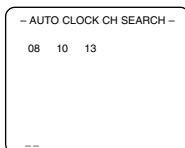
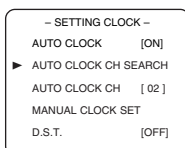
Press [ENTER] to select [ON].



3 Begin "AUTO CLOCK CH SEARCH"

Press [▼] to select "AUTO CLOCK CH SEARCH". Then press [ENTER].

- The unit begins searching for the station which contains the auto clock set signal. The search for a signal may take up to 20 seconds per channel.
- When the search has ended, " _ _ " appears at the lower left of the screen.
- Write down the number(s) that appear on the screen. They are the auto clock station(s) in your area.
- If no number appears on the TV screen, there are no stations in your area which contain the Auto Clock signal. Auto Clock Setting is not possible. Please use Manual Clock Setting on page 18.



NOTE:

- During AUTO CLOCK CH SEARCH, the picture may be distorted.

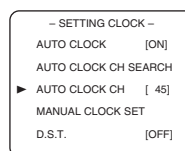
4 Enter the channel number that contains the Automatic Clock Setting Signal

Press [RETURN] to go back to "SETTING CLOCK" menu.

Press [▼] to select

"AUTO CLOCK CH".

Use [◀ / ▶] until you locate Auto Clock Set station number.



5 Exit the setting clock mode

Press [SETUP] to exit the menu.

NOTE:

- Once the unit is turned off, it will periodically check and set the correct date and time.

DAYLIGHT-SAVING TIME

TV/VR

Select this feature and the unit's clock automatically will advance one hour in April, then reverse one hour in October.

When Daylight-Saving Time is ON, the clock will change automatically as follows:

- **First Sunday of April** : At 2 AM the clock immediately changes to 3 AM. Any timer programming you have set to occur between 2 AM and 3 AM will not record.
- **Last Sunday of October** : At 2 AM the clock immediately changes to 1 AM.

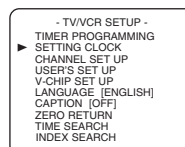
Make sure ...

- The unit must be turned on.

1 Select "SETTING CLOCK"

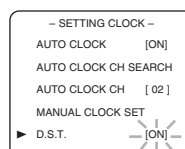
Press [SETUP].

Using [▲ / ▼] point to "SETTING CLOCK", then press [ENTER].



2 Set "D.S.T." (Daylight-Saving Time) to [ON]

Using [▲ / ▼] point to "D.S.T.", then press [ENTER] until [ON] appears.



3 Exit the Daylight-Saving Time mode

Press [SETUP] to exit the menu.

TO CANCEL THE DAYLIGHT-SAVING TIME

Repeat steps 1 to 2 and select [OFF] using [ENTER].

V-CHIP SET UP

TV/VCR

This feature enables parents to prevent their children from watching inappropriate material on TV. When you try to access a program which is blocked, "PROTECTED PROGRAM by ..." message appears on the TV screen.

V-CHIP SET UP

Make sure ...

- The unit must be turned on.

1 Select "V-CHIP SET UP"

Press [SETUP].

Using [▲ / ▼] select "V-CHIP SET UP", then press [ENTER].

- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
▶ V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH

2 Enter Access code

Use the **Number buttons** to enter the access code.

- For the first time set-up or in the event the unit has lost power, enter the default code of 0000.

ACCESS CODE



3 Select the desired item

Using [▲ / ▼] select "TV RATING", "MPAA RATING" or "CHANGE CODE", then press [ENTER].

Refer to the pages below to set up each item.

- V-CHIP SET UP -

- ▶ TV RATING → P 20 **A** Step 4
- ▶ MPAA RATING → P 21 **B** Step 4
- ▶ CHANGE CODE → P 21 **C** Step 4

A TV RATING SET UP

Follow steps **1** to **3** in the "V-CHIP SET UP" section above.

4 Blocking TV programs

Using [▲ / ▼] select a rating that you wish to block.

Press [ENTER] repeatedly to set it to [BLOCK] or [VIEW].

▶ TV-Y () [VIEW]
TV-Y7 () [VIEW]
TV-G () [VIEW]
TV-PG () [VIEW]
TV-14 () [VIEW]
TV-MA () [VIEW]

Selection	Rating Category Explanations
TV-Y	Appropriate for all children
TV-Y7	Appropriate for children seven and older
TV-G	General Audience
TV-PG	Parental Guidance suggested
TV-14	Unsuitable for children under 14
TV-MA	Mature audience only

NOTES:

- When you select a rating and set it to [BLOCK], the higher ratings will be blocked automatically. The lower ratings will be available for viewing.
- When you set the lowest rating to [VIEW], all other ratings will automatically be available for viewing.

TV-Y () [VIEW]
TV-Y7 () [VIEW]
▶ TV-G (DLSV) [BLOCK]
TV-PG (DLSV) [BLOCK]
TV-14 (DLSV) [BLOCK]
TV-MA (LSV) [BLOCK]

5 Setting "Sub-Ratings"

When you select the ratings of TV-Y7, TV-PG, TV-14 or TV-MA you will have the option of setting sub-rating categories.

Using [▲ / ▼] select a rating with sub-ratings you wish to block, then press [ENTER] twice.

Using [▲ / ▼] select a sub-rating, then press [ENTER] to set it to [BLOCK] or [VIEW].

TV-Y () [VIEW]
TV-Y7 () [VIEW]
▶ TV-G () [VIEW]
TV-PG () [VIEW]
TV-14 () [VIEW]
TV-MA () [VIEW]

TV-Y7 [BLOCK]
▶ FV [BLOCK]

TV-PG [BLOCK]
▶ D [BLOCK]
L [BLOCK]
S [BLOCK]
V [BLOCK]

Selection	Rating Category Explanations
TV-Y7	
FV	Fantasy Violence
TV-PG, TV-14, TV-MA	
D	Suggestive Dialog (TV-PG, TV-14 only)
L	Coarse Language
S	Sexual Situation
V	Violence

NOTE:

- The blocked sub-ratings will appear next to the rating category in the "TV RATING" menu.

TV-Y () [VIEW]
TV-Y7 () [VIEW]
▶ TV-G (DLSV) [VIEW]
TV-PG (DLSV) [BLOCK]
TV-14 (DLSV) [BLOCK]
TV-MA (LSV) [BLOCK]

6 Exit the V-Chip setting mode

Press [SETUP] to exit the menu.

NOTE:

- To change the rating, the TV must be turned to an unprotected program. If "PROTECTED PROGRAM by ..." appears on the screen, please change the channel to a station that is not protected.

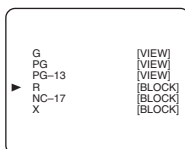
PROTECTED PROGRAM
by TV-Y

B MPAA RATING SET UP

Follow steps **1** to **3** in the “V-CHIP SET UP” section on page 20.

4 Select your desired item

Using [▲ / ▼] point to your desired item, then press [ENTER] to select [BLOCK] or [VIEW].



Selection	Rating Category Explanations
G	General Audience
PG	Parental Guidance suggested.
PG-13	Unsuitable for children under 13
R	Restricted; under 17 requires accompanying parent or adult guardian
NC-17	No one under 17 admitted
X	Mature audience only

- When you select a rating and set it to [BLOCK], the higher ratings will be blocked automatically. The lower ratings will be available for viewing.
- When you set the lowest rating to [VIEW], all other ratings will automatically be available for viewing.

5 Exit the V-Chip setting mode

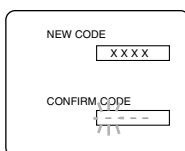
Press [SETUP] to exit the menu.

C CHANGE ACCESS CODE

Follow steps **1** to **3** in the “V-CHIP SET UP” section on page 20.

4 Enter New code

Use the **Number buttons** to enter your desired access code in the “NEW CODE” space, then enter the same code in the “CONFIRM CODE” space. When completed, the menu will return to “V-CHIP SET UP”.



- Make sure you enter exactly the same new code in the “CONFIRM CODE” space as one in the “NEW CODE” space. If they are different, the “NEW CODE” space is cleared for redoing.

5 Exit the V-Chip setting mode

Press [SETUP] to exit the menu.

NOTE:

- Your personal access code will be erased and will return to the default (0000) when a power failure occurs or when you turn off the power using a wall switch. If you have forgotten the code, unplug the power cord for 10 seconds to restore the access code to 0000.

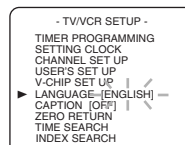
MENU LANGUAGE

TV/VCR

1 Select “LANGUAGE”

Press [SETUP].

Use [▲ / ▼] to point to “LANGUAGE”.



2 Select “ENGLISH”, “ESPAÑOL” or “FRANÇAIS”

Press [ENTER] repeatedly to select “ENGLISH”, “ESPAÑOL”= Spanish or “FRANÇAIS”= French.

3 Exit the Language mode

Press [SETUP] to exit the menu.

NOTES:

- This function effects only the language on the screen menu and not the audio source.
- If for some reason the menu is in Spanish or French, press [SETUP], [▲ / ▼] to point to “IDIOMA [ESPAÑOL]” or “LANGUE [FRANÇAIS]”, then press [ENTER] repeatedly to select desired language, then press [SETUP].

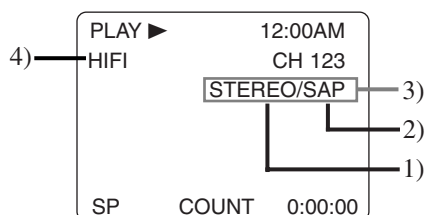
MTS (Multi-Channel Television sound) SYSTEM

This unit have a feature that allows for reception of sound other than the main audio program. This feature is called **Multi-channel Television Sound (MTS)**. You can listen or record mono audio sound, stereo sound, or **Secondary Audio Program (SAP)**.

CHECKING THE SELECTED MTS MODE

TV/VCR

By pressing [DISPLAY], the status shown below will appear on the display when you play a VHS tape or receive a broadcast on the unit tuner channel you are watching.



SAP	Second Audio Program, which means your program, can also be received in a second language or sometimes a radio station.
HIFI	High Fidelity which produces better sound than standard stereo units.

- 1) When a program is broadcast in stereo, "STEREO" appears on the TV screen.
- 2) When a program is broadcast in second audio, "SAP" appears on the TV screen.
- 3) When a program broadcast both in stereo and second audio, "STEREO" and "SAP" appear on the TV screen.

NOTE:

- Although a program may be broadcast in both stereo and second audio, you cannot record in both stereo and second audio at the same time.

- 4) While the unit is set in HIFI stereo mode and playback mode, "HIFI" appears on the TV screen. While the unit is set in monaural ("MONO") mode, "HIFI" disappears from the TV screen.

NOTE:

- If you play non-HIFI tapes while the unit is set in "HIFI", "HIFI" will disappear from the TV screen and the unit will play automatically in monaural.

MTS RECORDING/MONITOR MODE

TV/VCR

Type of broadcast	Display on the TV screen	STEREO/SAP SELECTION	Hi-Fi audio track (2-channel)		Normal audio track
			L-channel	R-channel	
Regular (monaural audio)	-None-	-Invalid-	Mono	Mono	Mono
Stereo broadcast	STEREO	-Invalid-	L	R	L+R
Bilingual broadcast	SAP	STEREO*	Main audio program	Main audio program	Main audio program
		SAP*	Sub audio program	Sub audio program	Sub audio program
Stereo & Bilingual broadcast	STEREO SAP	STEREO*	L	R	L+R
		SAP*	Sub audio program	Sub audio program	Sub audio program

*You must select the recording mode in TV AUDIO [STEREO] or [SAP] when you record a broadcast.

SELECTING THE MTS SYSTEM

TV/VCR

You can select the MTS output mode for recording or watching the program, also the audio output mode for playing cassettes.

WHEN RECEIVING AN MTS BROADCAST

Press [AUDIO] repeatedly to select the MTS output mode.

- The output mode changes as described below every time you press the button.



- The current mode appears on the TV screen for about 5 seconds.

NOTES:

- The initial setting is “STEREO”. The unit records automatically MTS broadcasts in HIFI stereo sound unless you select SAP mode recording beforehand.
- This setting is saved even if the unit is turned off or the AC cord is unplugged.
- If you select second audio when second audio is not available, the unit will record normal audio.

WHEN PLAYING CASSETTES

Press [AUDIO] to select “HIFI” or “MONO”.

- The current mode appears on the TV screen for about 5 seconds.
- The initial setting is “HIFI”.
- This setting is saved until the cassette is ejected.

NOTES:

- Normally “HIFI” should be selected for playback with HIFI sound.
- When you play non-HIFI tapes, the unit will play only in the monaural mode even if you set HIFI.

WHEN IN THE EXTERNAL INPUT MODE (“AUX”)

Pressing [AUDIO] does not affect the audio output mode and the current audio output mode does not appear on the TV screen.

VIDEO CASSETTE

This unit will operate with any cassette that has the **VHS** mark. For best results, we recommend the use of high-quality tapes. Do not use poor quality or damaged tapes.

PRECAUTIONS

- Avoid moisture. Moisture condensation may occur on the tape if it is moved from a cold place to a warm place or vice versa. Before using a tape with these conditions, to avoid damage of the tape and your unit, wait until the tape has warmed to room temperature and the moisture has evaporated.
- Avoid extreme heat, high humidity and magnetic fields.
- Do not tamper with the cassette mechanism.
- Do not touch the tape with your fingers.

TWO DIFFERENT TAPE SPEEDS

Before recording, select the tape speed from : **SP mode** (Standard Play) or **SLP mode** (Super Long Play).

The table below shows the maximum recording/playback time using T60, T120 or T160 tapes in each mode.

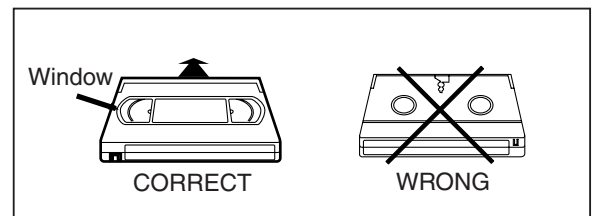
Tape Speed	Recording/Playback Time			
	Type of tape	T60	T120	T160
SP mode		1 hour	2 hours	2-2/3 hours
SLP mode		3 hours	6 hours	8 hours

NOTE:

- You can play back a tape recorded in LP mode (Long Play).

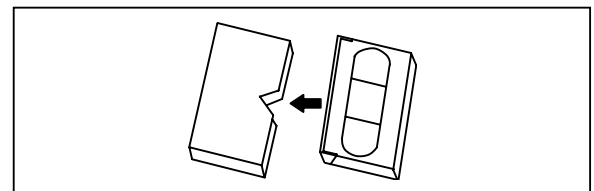
INSERTING A CASSETTE

Insert the cassette in the direction as shown. Push in gently, but continuously, on the center-back of the cassette until it is drawn into the unit. The unit will automatically turn on.



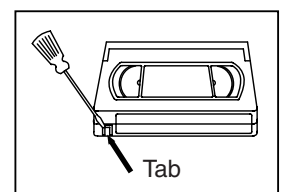
REMOVING A CASSETTE

- 1) In the stop mode, press **[■ / ▲ STOP/EJECT]** on the unit. The cassette will be ejected.
- 2) Pull the cassette out of the cassette compartment.
- 3) Store the cassette in its case as shown.

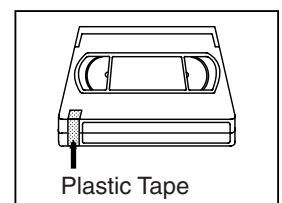


ERASE PREVENTION

You can prevent accidental erasing of recording by breaking off the tab on the back edge of the cassette.



If you decide to record on the tape again, cover the hole with plastic tape.



NOTE:

- In DVD mode, whether the cassette is with tab or without tab you insert, it doesn't start playing until you press **[▶ PLAY]**.
In TV/VCR mode, if the cassette without tab is inserted, playback will start automatically.

PLAYBACK

NORMAL PLAYBACK

TV/VCR

Make sure ...

- The unit must be turned on.

1 Insert a prerecorded tape

If the erase-prevention tab has been removed, the unit will start playback automatically.

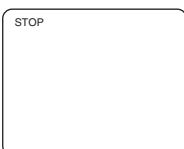
2 To begin playback

Press [PLAY ▷].



3 To stop playback

Press [STOP ■].



NOTES:

- Even in the DVD mode, you can start the VCR playback if you press [▶ PLAY] (of the TV/VCR side).
- VCR playback will stop and the mode will change to the DVD mode by pressing [SELECT], [▶ PLAY] (DVD side) or [▲ OPEN/CLOSE].

TRACKING ADJUSTMENT

TV/VCR

- Tracking adjustment will be set automatically (Digital Tracking function) when you start playback.
- Noise lines (black and white streaks) may appear on the playback picture when playing pre-recorded tapes or tapes recorded on other VCR. If this occurs, use [CH. ▲ / ▼] until the streaks disappear.
- You can reduce the noise lines by using [CH. ▲ / ▼] in the slow mode too. Tracking adjustment in the slow mode will not be set automatically.
- To return to the Digital Auto Tracking function, stop the tape once and start playback.

SLOW MOTION

TV/VCR

Press [PAUSE II], then press [▶▶] to start the playback in slow motion. The unit mutes the sound during slow motion. Press [PLAY ▷] to return to normal playback.

NOTE:

- If it is left in the slow mode for more than 5 minutes, the unit will automatically go into the stop mode.

STILL PICTURE

TV/VCR

You can view a still picture on the TV screen during playback (the still mode). Press [PAUSE II] during playback. Only tapes recorded in the SLP mode will show the least amount of lines. Press [PLAY ▷] to return to playback.

NOTES:

- You can advance the picture one frame at a time by pressing [PAUSE II] during the still mode.
- If it is left in the pause mode for more than 5 minutes, the unit will automatically switch to the stop mode.

VERTICAL HOLD CONTROL

TV/VCR

In the pause/still mode only, when the picture begins to vibrate vertically, stabilize the picture by using [CH. ▲ / ▼].

NOTE:

- If there are video noise lines on the screen, refer to TRACKING ADJUSTMENT on this page.

SPECIAL PLAYBACK

Make sure ...

- The unit must be turned on.
- Insert a prerecorded tape.

RENTAL PLAYBACK

TV/VCR

This function enables you to improve the picture quality when playing back worn cassettes such as rented tapes.

1 Select "USER'S SET UP"

Press [SETUP].

Using [▲ / ▼] point to "USER'S SET UP", then press [ENTER].

- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
▶ V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH

2 Set "RENTAL" to [ON]

Using [▲ / ▼] point to "RENTAL".
Press [ENTER] until [ON] appears.

- USER'S SET UP -
▶ RENTAL REPEAT PLAY
AUTO RETURN [ON] / [OFF]

3 Exit the Rental setting

Press [SETUP] to return to the TV mode.

4 Start playback

Press [PLAY ▷] to start playback.
"RENTAL PLAY ▶" appears.

- Once you select the rental mode, it stays in effect even after you turn off the unit.

TO CANCEL THE RENTAL MODE

Repeat steps **1** to **2** and select [OFF] using [ENTER]. Press [SETUP] to return to TV mode.

Even if there is a power failure of any kind, the unit will retain its memory for this feature.

AUTO REPEAT PLAYBACK

TV/VCR

The unit has the auto repeat function that allows you to repeat a tape indefinitely without pressing [PLAY ▷].

ALL REPEAT: Repeat playback from the beginning to the end of the tape.

BLANK REPEAT: Repeat playback from the beginning to a blank part, which is blank for more than 10 seconds.

1 Select "USER'S SET UP"

Press [SETUP].

Using [▲ / ▼] point to "USER'S SET UP", then press [ENTER].

- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
▶ USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH

2 Select "ALL" or "BLANK"

Using [▲ / ▼] point to "REPEAT PLAY".

Press [ENTER] repeatedly until your desired selection [ALL] or [BLANK] appears.

- USER'S SET UP -
▶ RENTAL REPEAT PLAY
AUTO RETURN [OFF] / [ALL] / [BLANK]

3 Exit the Repeat Play setting

Press [SETUP] to return to the TV mode.

4 Start playback

Press [PLAY ▷] to start the Repeat Play.
"REPEAT PLAY ▶" appears.

- Once you select the repeat play mode, it stays in effect even after you turn off the unit.
- If the rental mode is set [ON], the "RENTAL PLAY ▶" display has priority.

TO CANCEL THE REPEAT PLAY MODE

Repeat steps **1** to **2** and select [OFF] using [ENTER]. Press [SETUP] to return to TV mode.

Even if there is a power failure of any kind, the unit will retain its memory for this feature.

SEARCH

Make sure ...

- The unit must be turned on.
- Insert a tape.

ZERO RETURN

TV/VCR

This function allows you to search easily a beginning point that you want to review by rewinding or fast forwarding.

NOTE:

- Zero Return **WILL NOT** work on a blank tape or a blank portion of a tape.

1 Stop a tape at your desired point

Rewind or fast forward the tape to the beginning point at which you want to review.

2 Reset the counter to 0:00:00

Press [C.RESET] repeatedly.

3 Begin recording or playback

Press [RECORD] or [PLAY ▷].

Press [STOP ■] when recording or playback is completed.

4 To activate "ZERO RETURN"

Press [SETUP].

Using [▲ / ▼] point to "ZERO RETURN", then press [ENTER].

The unit will begin rewinding and the counter will appear on the TV screen.

The tape will automatically stop when the counter returns to 0:00:00 (approx.).

- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH

NOTE:

- Tapes recorded in SP or LP mode will normally display a noise bar on the TV screen and the picture may revert to Black and White.

3 Return to normal speed

Press [PLAY ▷].

TIME SEARCH

TV/VCR

The Time Search function makes it possible to quickly advance the tape to your desired position simply by entering the exact amount of playback time you want to skip.

NOTE:

- Time Search can be set up to a maximum of 9 hours 50 minutes (9:50) by 10 minutes at a time.

In the example below:

To watch a program before/ after 2 hour 50 minutes from the present position, in either direction.

1 Select "TIME SEARCH"

Press [SETUP].

Using [▲ / ▼] point to "TIME SEARCH", then press [ENTER].

- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
▶ TIME SEARCH
INDEX SEARCH

2 Enter your desired time

Use [▲ / ▼] until your desired time appears. (Example: "2:50" stands for 2 hours 50 minutes)

If you wish to cancel the Time Search at this point, press [SETUP].

TIME SEARCH
2 : 50

3 Begin Time Search

By using [◀ / ▶], the unit will rewind or fast forward to the specified point.

The time counts down during the search. When the display shows "0:00", the tape will start playback automatically.

PICTURE SEARCH

TV/VCR

This feature is very useful in finding or skipping over a particular scene on a tape. In this mode, the sound will be muted.

1 Start Picture Search

During playback, press [▶▶] or [◀◀] to view at a high speed (in forward/reverse).

2 Change searching speed

Press [▶▶] or [◀◀] again to view at super high speed (in LP/SLP modes only).

TO CANCEL DURING TIME SEARCH

Press [■ / ▲ STOP/EJECT] on the unit or [STOP ■]. This will delete the selected time.

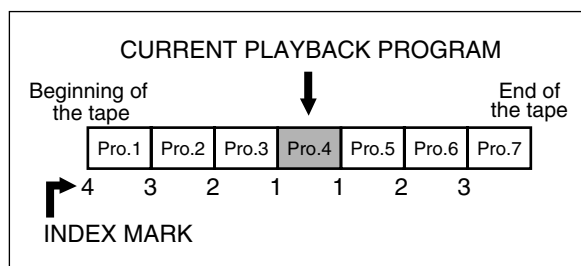
INDEX SEARCH

TV/VCR

This feature provides a method of indexing the starting point so that it can be easily returned to in either fast forward or rewind mode.

- The index mark will be made automatically when [RECORD] is pressed. It will also be marked at the starting point of Timer recording and OTR.
- The index mark will not be recorded if [PAUSE III] is pressed and released during recording.
- The time gap between making the index marks on the tape should be greater than 1 minute for SP recording, 2 minutes for LP recording and 3 minutes for SLP recording.
- In some cases, the index mark at the beginning of video tape cannot be detected.

Example: You are watching program number 4 and want to fast forward to program number 7. You must skip three programs.



1 Select "INDEX SEARCH"

Press [SETUP].

Using [▲ / ▼] point to "INDEX SEARCH", then press [ENTER].

TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH

2 Enter your desired number

Use [▲ / ▼] until the number of programs that you want to skip appears.

(Example: "03" for 3 programs)

INDEX SEARCH
03

- The Index Search mode will be canceled if the procedures are not activated in 30 seconds.

3 Begin Index Search

Use [◀ / ▶]. The unit begins rewinding or fast forwarding to the beginning of desired program.

NOTE:

- Every time an index signal is skipped, the number in the program indicator decreases by one.

4 After Index Search

When the preset program is reached, the unit will start playback automatically.

- A video cassette must be inserted in the unit for this function to work.
- The number of Index Searches can be set up to 20.
- This function will not operate in the recording mode.
- When you want to cancel the Index Search while in progress, press [STOP ■].

SPECIAL FEATURES

REAL TIME TAPE COUNTER

TV/VCR

This shows the elapsed recording or playback time in hours, minutes, and seconds. (The displayed time will not change on a blank tape or blank portions on the tape.) The "-" indication will appear when the tape has rewound further than "0:00:00" on the tape counter.

AUTO REWIND-EJECT

TV/VCR

- When the end of a tape is reached during recording, playback, or fast-forward, the tape will automatically rewind to the beginning. After rewinding finishes, the unit will eject the tape and turn itself off.
- This function is operative when Repeat Play is set to the [OFF] position.
- The tape will not auto-rewind during timer recording or One Touch Recording.

RECORDING

Make sure ...

- The unit must be turned on.
- Insert a cassette tape with its erase-prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

NOTES:

- This unit will **ONLY** record and view the same channel.
- This unit cannot record the contents from the built-in DVD.

NORMAL RECORDING

TV/VCR

You can **ONLY** watch the same TV program that is being recorded.

1 Select the channel to be recorded

Use the **Number buttons** or **[CH, ▲ / ▼]**.

CH 10

NOTE:

- If the unit is connected to a cable box or satellite box, the unit must be on CH3 or CH4, then the channel to be recorded must be selected on the cable box or satellite box.

2 Select the tape speed

Press **[SPEED]** to select the desired tape speed (SP/ SLP).

SP

3 Begin recording

Press **[RECORD]**.

REC

SP

4 Stop recording

Press **[STOP ■]**.

SKIPPING UNWANTED SCENES DURING RECORDING

TV/VCR

Press **[PAUSE II]** to temporarily stop recording.

Press **[PAUSE II]** or **[RECORD]** to resume recording.

NOTES:

- After 5 minutes, the unit will automatically switch to the recording mode to prevent tape damage.
- If Closed Caption mode is on, the On-Screen Display will appear for 5 seconds, then disappear.

PAUSE

SP

OTR (One Touch Recording)

TV/VCR

This function enables you to set a recording length simply by pressing [● REC/OTR] on the unit.

Make sure ...

- The unit must be turned on.
- Insert a cassette tape with its erase-prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

NOTES:

- You **cannot** start OTR with the remote control.
- Recording starts immediately when [● REC/OTR] is pressed.
- When [● REC/OTR] is pressed 18 times, the unit returns to the normal recording mode.
- To stop the OTR operation, press [■ STOP] on the unit or on the remote control.
- To show the remaining time, press [DISPLAY] on the remote control so that "OTR" appears on the TV screen. (It will show up momentarily then disappear.)
- Recording stops when the display shows 0:00.
- Please note that in the SLP mode maximum recording time, assuming the tape is started at the beginning, is 8 hours using T-160 (or 6 hours using T-120).
- If the tape runs out before the end time, the unit will switch to the stop mode immediately, ejects the tape and turns itself off.
- Even if [POWER] is pressed during OTR, the unit continues recording.

1 Select the channel to be recorded

Use the **Number buttons** or [CH. ▲ / ▼].

NOTE:

- If the unit is connected to a cable box or satellite box, the unit must be on CH3 or CH4, then the channel to be recorded is selected on the cable box or satellite box.

2 Select the tape speed

Press [SPEED] to select the desired tape speed (SP/SLP).

3 Begin OTR

Press [● REC/OTR] on the unit as many times as needed. The recording length will be determined by the number of times you press [● REC/OTR]. Each time it is pressed, the recording time will be increased by 30 minutes up to 8 hours.

OTR (2 : 30)

SP

Time(s)	Display	Recording length
1 time		(normal recording)
2 times	0:30	30 minutes
3 times	1:00	60 minutes
↓	↓	↓
17 times	8:00	480 minutes

COPYING A VIDEO CASSETTE (Requires a VCR or camcorder)

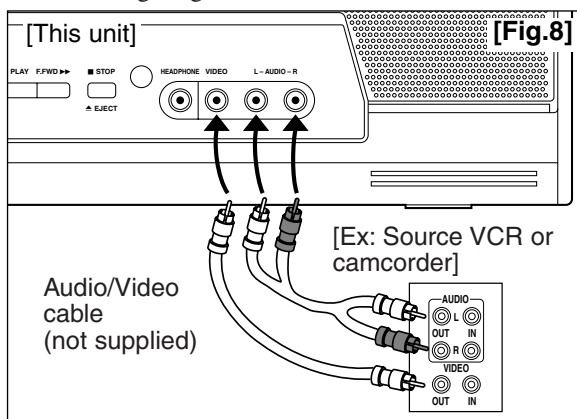
TV/VCR

You can make copies of video tapes made by friends or relatives for your enjoyment.

You can not copy a DVD to a videotape.

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

Connect your unit and a source (Playing) VCR using the following diagram.



- 1) Insert a pre-recorded video cassette into the source VCR or camcorder.
- 2) Insert a blank video cassette or one you want to record over, into the unit's cassette compartment.
- 3) Press [SPEED] on remote control for the unit to select the desired recording speed (SP/SLP).
- 4) Use [CHANNEL ▲ / ▼] on the unit until "AUX" appears on the screen.
- 5) Press [● REC/OTR] on the unit.
- 6) Begin playback of the tape in the source VCR or camcorder.

NOTE:

- For best results during copying, use the front panel controls whenever possible. The remote control might affect the source VCR's playback operation.
- 7) To stop copying, press [■ / ▲ STOP/EJECT] on the unit, then stop the tape on the source VCR or camcorder.

TIMER RECORDING

AUTOMATIC TIMER RECORDING

TV/VCR

You may set the unit to start and end a recording while you are away. You can set 8 programs to record on specific days, daily or weekly within a 1 year period.

In the example below, the timer is being set to record:

DATE: July 4th, 2005
 SETTING TIME: from 7:30PM to 8:50PM
 CHANNEL: CH61
 TAPE SPEED: SP

Make sure ...

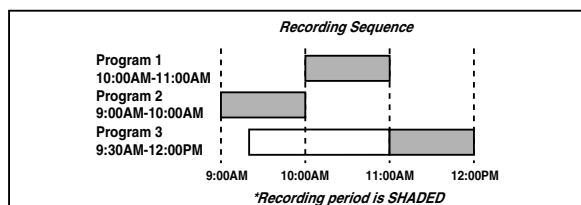
- If a cable box or satellite box is connected with the unit you will be limited to record only one channel, and the channel selector on the unit must be selected to the output channel of the boxes CH 3 or CH 4 and then the actual channel to be recorded must be selected on the boxes.
- Clock must be set to the correct time and date before setting the timer.
- The unit must be turned on to program it.
- Insert a cassette tape with its erase-prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)
- The channel you want to record is properly set in advance. (Refer to page 17.)

Avoid overlap of programs ...

There is a chance that a program will not be recorded, when programs overlap;

- The program with an earlier start has priority.
- Once the earliest program finishes, the overlapping programs will begin recording in sequence.
- When the starting time is the same, the program set on the highest position in the program list has priority.
- The illustration below demonstrates the sequence of recordings.

Program 1 10:00AM - 11:00AM
 Program 2 9:00AM - 10:00AM
 Program 3 9:30AM - 12:00PM



1 Select "TIMER PROGRAMMING"

Press [SETUP].

Confirm "TIMER PROGRAMMING" is pointed by pressing [▲], then press [ENTER].

- If you have not yet set the clock, "MANUAL CLOCK SET" appears. If so, follow steps 3 to 8 on page 18. Then set the timer recording.

- TV/VCR SETUP -
 TIMER PROGRAMMING
 SETTING CLOCK
 CHANNEL SET UP
 USER'S SET UP
 V-CHIP SET UP
 LANGUAGE [ENGLISH]
 CAPTION [OFF]
 ZERO RETURN
 TIME SEARCH
 INDEX SEARCH

2 Select your desired program position (1 to 8)

Using [▲ / ▼] select the desired program position, then press [▶].

- TIMER PROGRAMMING -
 CH DATE BEGIN END
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --

3 Set the channel number

Use [▲ / ▼] until the desired channel number appears (Example: CH61), then press [▶].

- TIMER PROGRAMMING -
 CH DATE BEGIN END
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --

NOTE:

- If the unit is connected to a cable box or satellite box, the unit must be on CH3 or CH4, then the channel to be recorded is selected on the cable box or satellite box.

4 Select once, every day or weekly recording

For once recording :

Press [▲] until the desired date appears.
 (Example: "7/04" for July 4th)
 Then press [▶].

- TIMER PROGRAMMING -
 CH DATE BEGIN END
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --

For every day recording : To record a TV program at the same time on the same channel every day.
 (Example: Monday through Sunday)

Press [▼] until "EVRY DAY" appears, then press [▶].

- TIMER PROGRAMMING -
 CH DATE BEGIN END
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --

For weekly recording : To record a TV program at the same time on the same channel every week.
 (Example: every Monday)

Press [▼] until "EVRY" and your desired day of the week appear together, then press [▶].

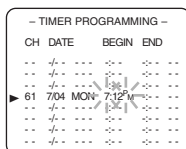
- TIMER PROGRAMMING -
 CH DATE BEGIN END
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --
 -- -- -- -- --

5 Set beginning hour

Use [▲ / ▼] until the desired hour appears.

(Example: “7, PM” for 7:30PM)

Then press [▶].



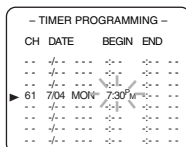
- TIMER PROGRAMMING -			
CH	DATE	BEGIN	END
61	7/04 MON	7:30 PM	

6 Set beginning minute

Use [▲ / ▼] until the desired minute appears.

(Example: “30” for 7:30PM)

Then press [▶].



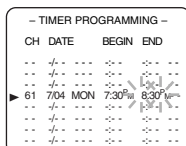
- TIMER PROGRAMMING -			
CH	DATE	BEGIN	END
61	7/04 MON	7:30 PM	

7 Set end hour

Use [▲ / ▼] until the desired hour appears.

(Example: “8, PM” for 8:50PM)

Then press [▶].



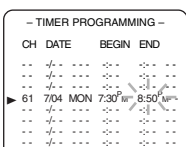
- TIMER PROGRAMMING -			
CH	DATE	BEGIN	END
61	7/04 MON	7:30 PM	8:50 PM

8 Set end minute

Use [▲ / ▼] until the desired minute appears.

(Example: “50” for 8:50PM)

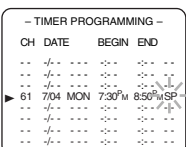
Then press [▶].



- TIMER PROGRAMMING -			
CH	DATE	BEGIN	END
61	7/04 MON	7:30 PM	8:50 PM

9 Set the tape speed

Use [▲ / ▼] until the desired tape speed appears. (Example: “SP”)



- TIMER PROGRAMMING -			
CH	DATE	BEGIN	END
61	7/04 MON	7:30 PM	8:50 PM SP

10 Finish setting the program

Press [ENTER] or [RETURN] to complete setting.

- To set another program, repeat steps 2 to 10.
- Press [SETUP] to exit the menu.

11 Set the timer

Press [POWER] to set automatic timer recording. The recording indicator lights up.

- You must turn off the unit to activate automatic timer recording.

If power is not turned off and you continue watching TV, “TIMER REC STANDBY” starts flashing on the TV screen 2 minutes before the programmed start time.

- If the erase-prevention tab is removed, the cassette will be ejected when [POWER] is pressed to off.

NOTES:

- The display will not be turned on automatically at the time the programmed recording begins. To watch the currently recorded TV program or to play a DVD disc, press [POWER] and [SELECT] to choose the TV/VCR mode or the DVD mode.
- If the tape runs out before the end time, the unit will switch to the stop mode immediately and the tape will be ejected.

TIMER PROGRAM EXTENSION

To shift the time schedule of an automatic timer recording.

- 1) Press [POWER].
- 2) Repeat step 1 on page 31.
- 3) Press [RECORD] and select the desired program using [▲ / ▼].
- 4) Press [RECORD] again.

Each additional push will shift forward the begin/end time for recording by 10 minutes. When the recording is already in progress, each additional push will shift forward the end time only. If you want to cancel while setting, press [PAUSE II] on the remote control. The recording time returns to the original time.

NOTE:

- When you shift forward the time schedule during recording, the recording speed will automatically be set to the SLP mode.
- 5) Press [ENTER] or [RETURN] to exit the setting menu. Then press [SETUP] to return to original mode.

TO CORRECT A PROGRAM

- While setting a program; press [◀] to go back one step and enter the correct numbers using [▲ / ▼].
- After setting a program;
 - 1) Press [POWER].
 - 2) Repeat steps 1 to 2 on page 31.
 - 3) Press [▶] (or press [◀] to go back one step) until the part you want to correct begins flashing, then make the changes using [▲ / ▼].
 - 4) Press [POWER] to set automatic timer recording.

TO CANCEL AN AUTOMATIC TIMER RECORDING

- 1) Press [POWER].
- 2) If recording is in progress, press [■ / ▲ STOP/EJECT] on the unit.
- 3) Repeat steps 1 to 2 on page 31 and select a program you want to cancel.
- 4) Press [C.RESET].
- 5) Press [SETUP] to return to TV mode.

TO CONFIRM THE TIMER SETTING

- 1) Press **[POWER]** so that the Recording indicator light goes off.
- 2) Press **[SETUP]**.
- 3) Confirm "TIMER PROGRAMMING" is selected.
- 4) Press **[ENTER]**. The details of programs appear on the TV screen.
- 5) Press **[SETUP]** to return to TV mode.

AUTO RETURN

TV/VCR

With this feature, after timer recording is finished, the beginning of the recorded program(s) can be searched for automatically.

1 Select "USER'S SET UP"

Press **[SETUP]**.

Using **[▲ / ▼]** point to "USER'S SET UP", then press **[ENTER]**.

- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH

2 Set "AUTO RETURN" to [ON]

Using **[▲ / ▼]** point to "AUTO RETURN", then press **[ENTER]** until [ON] appears.

- USER'S SET UP -
RENTAL [OFF]
REPEAT PLAY [OFF]
AUTO RETURN [ON]

3 Auto Return will begin

When all the timer recordings are completed, the unit will rewind to the beginning of the recorded program(s).

NOTE:

- If you press **[POWER]** while tape is rewinding, the Auto Return will stop.

4 Watch the recorded program

Press **[PLAY ▷]**.

TO CANCEL AUTO RETURN MODE

Repeat steps **1** to **2** and select [OFF] using **[ENTER]**.

Even if there is a power failure of any kind, the unit will retain its memory for this feature.

ON SCREEN DISPLAY

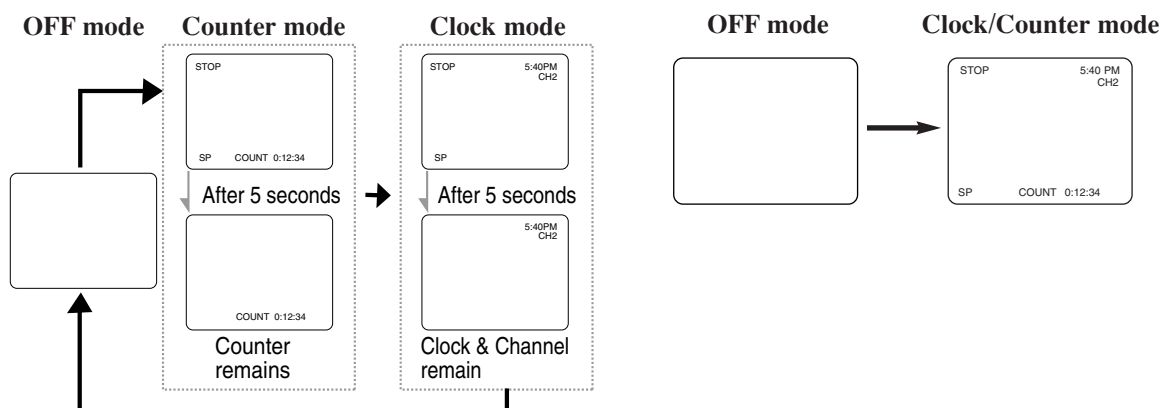
To check the Counter, Clock and Channel number on the TV screen, press **[DISPLAY]**. Each time you press **[DISPLAY]**, the TV screen will change as follows:

When the Closed Caption mode is OFF:

- Counter mode: After 5 seconds, only the counter remains. To clear it, press **[DISPLAY]**.
- Clock mode: After 5 seconds, only the clock and the channel number remain. To clear them, press **[DISPLAY]**.

When the Closed Caption mode is ON:

- The On Screen Display disappear after 5 seconds.
- This is true even if **[MUTE]** or **[PAUSE II]** is pressed while recording.



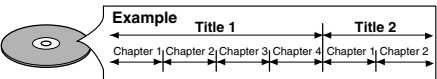
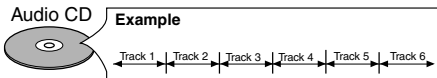
CABLE CHANNEL DESIGNATIONS

If you subscribe to cable TV, the channels are displayed as 1-125. Cable companies often designate channels with letters or letter-number combinations. Please check with your local cable company. The following is a chart of common cable channel designations.

CATV channel	5A	2	3	4	5	6	7	8	9	10	11	12	13	A	B
TV Display	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CATV channel	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
TV Display	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CATV channel	R	S	T	U	V	W	W+1	W+2	W+3	W+4	W+5	W+6	W+7	W+8	W+9
TV Display	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
CATV channel	W+10	W+11	W+12	W+13	W+14	W+15	W+16	W+17	W+18	W+19	W+20	W+21	W+22	W+23	W+24
TV Display	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CATV channel	W+25	W+26	W+27	W+28	W+29	W+30	W+31	W+32	W+33	W+34	W+35	W+36	W+37	W+38	W+39
TV Display	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
CATV channel	W+40	W+41	W+42	W+43	W+44	W+45	W+46	W+47	W+48	W+49	W+50	W+51	W+52	W+53	W+54
TV Display	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
CATV channel	W+55	W+56	W+57	W+58	A-5	A-4	A-3	A-2	A-1	W+59	W+60	W+61	W+62	W+63	W+64
TV Display	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
CATV channel	W+65	W+66	W+67	W+68	W+69	W+70	W+71	W+72	W+73	W+74	W+75	W+76	W+77	W+78	W+79
TV Display	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CATV channel	W+80	W+81	W+82	W+83	W+84										
TV Display	121	122	123	124	125										

ABOUT THE DISCS

PLAYABLE DISCS

Playable discs	Mark (logo)	Region code	Recorded signals	Disc size	Disc types
DVD-Video * 1,2,4,6,10,11	 	 or 	Digital video (MPEG2)	12 cm or 8 cm	
DVD-RW DVD-R * 1,3,4,5,6 7,9,10	   	-			
DVD+RW DVD+R * 1,3,4,5,6,8,9,10	  DVD+ReWritable DVD+R	-			
Audio CD * 4,6,10		-	Digital audio	12 cm or 8 cm	
CD-RW CD-R * 4,5,6,9,10	   				

 is a trademark of DVD Format/Logo Licensing Corporation.

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: Discs recorded in the VR (Video Recording) format cannot be played back.
- *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.
- *7: You may play back the unfinalized DVD-R/RW disc recorded in the video format on our brand's DVD recorder. However, 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.). In this case, you need to finalize the disc with the DVD recorder. Refer to the manual accompanying the DVD recorder.
- *8: Only the discs recorded in the video format and finalized can be played back. Unfinalized discs 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.).
- *9: If there is too much recording space left on a disc (the used portion is less than 55mm across), it may not play back properly.
- *10: Do not glue paper or put stickers on to the disc. These may damage the disc and the unit may not read it correctly.
- *11: The number inside the symbol refers to a region of the world and a disc encoded in a specific region format can only be played back on unit with the same region code.

UNPLAYABLE DISCS

- **NEVER play back the following discs. Otherwise, malfunction may result!**
DVD-RAM / CD-I / Photo CD / Video CD / DVD with region codes other than 1 or ALL / DTS-CD / DVD-ROM for personal computers / CD-ROM for personal computers / MP3
- **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*

PLAYING A DISC

BASIC PLAYBACK

DVD-V

CD

Getting started

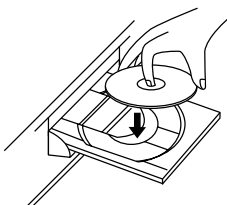
- Turn on the power of amplifier and any other components, if necessary.

1 Press [POWER].

- The power will turn on.

2 Press [▲ OPEN/CLOSE] to open disc loading tray.

3 Place the chosen disc in the tray, with the label facing up.



4 Press [PLAY ▷].

- The tray will close automatically and playback will then start from the first chapter or track of the disc.
- **Closing the disc tray manually or by pressing [▲ OPEN/CLOSE] also starts playback.**
- If the playback does not start automatically, press [PLAY ▷].
- When you playback a DVD which features a title menu, it may appear on the screen. In this case, refer to “TITLE MENU” on this page.

5 Press [STOP ■] to stop playback.

NOTES:

- When the DVD mode has been switched to the TV/VCR mode, the DVD mode shuts down first and then the TV picture and sound appears in about 4 seconds. Similarly, when [POWER] is pressed to turn off in the DVD mode, this mode shuts down first and then the unit is turned off.
- A “prohibited icon” may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD or the disc.
- With DVDs that use titles for playback program signals, playback may start from the second title or it may skip these titles.
- During the playback of a two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.



GENERAL FEATURES

DVD-V

DVD may contain menus to navigate the disc and access special features. Use **the appropriate Number buttons** or [▲ / ▼ / ◀ / ▶] to highlight your selection in the DVD main menu and press [ENTER] to confirm.

NOTES:

- Select DVD mode by pressing [SELECT], then operate the DVD functions.
- Unless stated, all operations described are based on remote control use. Some operations can be carried out using the menu bar on the TV screen.

DISC MENU

DVD-V

1 Press [DISC MENU].

- The DVD main menu will appear.
- If the feature is not available, ⓧ symbol may appear on the TV screen.
- If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.

2 Using [▲ / ▼ / ◀ / ▶] select an item and press [ENTER] to confirm selection.

TITLE MENU

DVD-V

1 Press [TITLE].

- The title menu will appear.
- If the feature is not available, ⓧ symbol may appear on the TV screen.

2 Using [▲ / ▼ / ◀ / ▶] select an item, and press [ENTER] to confirm selection.

CALLING UP A MENU SCREEN DURING PLAYBACK

- Press [DISC MENU] to call up the DVD menu.
- Press [TITLE] to call up the title menu.

NOTE:

- Contents of menu and corresponding menu operations may vary between discs. Refer to the manual accompanying the disc for details.

RESUME

DVD-V CD

- 1 During playback, press [STOP ■].
 - Resume message will appear on the TV screen.
- 2 Press [PLAY ▷], playback will resume from the point at which playback was stopped.
 - To cancel resume, press [STOP ■] twice.
 - The resume information stays on even when the power is turned off.

PAUSE

DVD-V CD

- 1 During playback, press [PAUSE II].
 - Playback will pause and sound will be muted.

- 2 To continue playback, press [PLAY ▷].

STEP BY STEP PLAYBACK

DVD-V

- 1 During playback, press [PAUSE II].
 - Playback will pause and sound will be muted.
- 2 The disc goes forward by one frame each time [PAUSE II] is pressed.
- 3 To exit step by step playback, press [PLAY ▷].

FAST FORWARD / FAST REVERSE

DVD-V CD

- 1 During playback, press and hold [▶▶] or [◀◀] for a few seconds.
 - “▶▶ 1” or “◀◀ 1” appears on the screen.
- 2 To select another speed, repeat step 1 until your required speed number appears on the screen.
 - For DVDs, fast forward/reverse search speed is different depending on the disc. Approximate speed is 1 (×2), 2 (×8), 3 (×20), 4 (×50) and 5 (×100).
 - For Audio CDs approximate speed is 1 (×2), 2 (×8) and 3 (×30).
 - When you press buttons on the main unit, use [SEARCH◀◀ / ▶▶].
- 3 To return to normal playback, press [PLAY ▷].

SLOW FORWARD / SLOW REVERSE

DVD-V

- 1 During playback, press [PAUSE II].
- 2 Press and hold [▶▶] or [◀◀] for a few seconds.
 - “▶▶ 1” or “◀◀ 1” appears on the screen.
- 3 To select another speed, repeat step 2 until your required speed number appears on the screen.
 - Slow forward or reverse speed varies with the disc. Approximate speed is 1 (1/16), 2 (1/8) and 3 (1/2).
 - When you press buttons on the main unit, use [SEARCH◀◀ / ▶▶].
- 4 To return to normal playback, press [PLAY ▷].

ZOOM

DVD-V

The Zoom function allows you to enlarge the video image and to pan through the enlarged image.

- 1 Press [ZOOM] during playback.
 - Playback will continue.
- 2 Press [ZOOM] repeatedly to select the required zoom factor: ZOOM1, ZOOM2, ZOOM3 or OFF.
- 3 Use [▲ / ▼ / ◀ / ▶] to move the zoomed picture across the screen.
- 4 To exit zoom mode, press [ZOOM] to OFF.

NOTES:

- Zooming function does not work while disc menu is shown.
- Zooming function is not available on some discs.
- It may take several seconds to slide the zoomed picture.
- The picture may be distorted if you operate other functions repeatedly (ex. [PAUSE II] or [◀◀], etc.) in the zoom mode.

SEARCH FUNCTION

TRACK SEARCH

CD

There are three ways to begin playback on an Audio CD at a specific track.

Using the Number buttons

- 1 Press the Number buttons to enter the desired track number.

- Playback will start at the selected track.
- For single digit tracks (1-9), press a single number (eg. track 3, press [3]).
- To play track 26, press [+10], [2], [6].

Using [SEARCH MODE]

- 1 Press [SEARCH MODE].
 - The track search display appears.
- 2 Within 30 seconds, select the desired track number using the Number buttons.
 - For single digits press [0] first, if the total track of the disc is 10 tracks or more.
 - Playback will start at the selected track.

Using [◀◀ / ▶▶]

During playback, press [▶▶] to move the next track. Press it repeatedly to skip subsequent tracks. Press [◀◀] to go back to beginning of the current track. Press it repeatedly to go to the previous tracks.

- If [◀◀ / ▶▶] is pressed while the playback is paused, the playback will be paused again after skipping to the next track.

NOTE:

- [◀◀ / ▶▶] are not operative when playback is stopped.

TITLE / CHAPTER SEARCH

DVD-V

- 1 Press [SEARCH MODE] once for the Chapter search, twice for the Title search during playback.



- 2 Enter the desired chapter/title number using the Number buttons.

- Playback will start at the selected chapter or title.
- Press [CLEAR] to erase the incorrect input.
- For single digits press [0] first, if the total number of chapter or title of the disc is 10 or more.

TIME SEARCH

DVD-V

CD

- 1 During playback, press [SEARCH MODE] three times (CD: twice) to display the Time Search on the TV screen.

- 2 Within 30 seconds, enter a desired disc time using the Number buttons.

- Playback will start at the specified time.
- Press [CLEAR] to erase the incorrect input.
- When there is no need to enter a number, "0 : 0 : _ _" appears automatically. For example, "0 : 0 : _ _" appears in the Time Search display if the total time of the track or title is less than 10 minutes.

MARKER SETUP SCREEN

DVD-V

CD

Use markers to memorize your favorite places on a disc.

- 1 Press [SEARCH MODE] four times (CD: three times) during playback.

- The display screen and Markers will appear on the TV screen.

- 2 Using [◀ / ▶] select 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 and ensure that "... : : : : : ." appears in the display.

- 3 When the disc reaches the desired point, press [ENTER].

- The Title or Track and elapsed playing time will appear in the TV screen.

- 4 To return to the Marker later, press [SEARCH MODE] four times (CD: three times) during playback and choose the desired marker using [◀ / ▶], then press [ENTER].

NOTES:

- Operations which erase all Markers:
 - Opening the disc tray
 - Turning off the power
 - Pressing [SELECT]
 - Selecting "AC" at step 2 and pressing [ENTER]
- To clear a marker:
 - Using [◀ / ▶] select a cursor on to the marker number and press [CLEAR].
- You can mark up to 10 points.

- 5 Press [SEARCH MODE] or [RETURN] to exit.

SPECIAL PLAYBACK FUNCTION

REPEAT

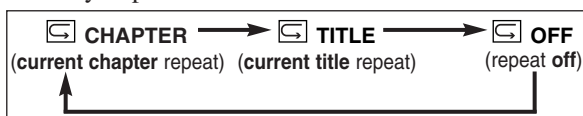
REPEAT is available only during playback.

REPEAT TITLE / CHAPTER

DVD-V

To activate the repeat function, press [REPEAT] during playback.

- The repeat mode changes as described below every time you press the button.



NOTES:

- Repeat Title/Chapter is not available with some scenes.
- The REPEAT setting will be cleared when moving to other title or chapter.

REPEAT TRACK

CD

To activate the repeat function, press [REPEAT] during playback.

- The repeat mode changes as described below every time you press the button.



NOTES:

- Repeat Track setting will be cleared when moving to other track.
- Repeat playback does not function during A-B repeat playback.

A-B REPEAT

DVD-V

CD

1 Press [A-B] at your chosen starting point.

- “[A-B] A-” appears briefly on the TV screen.

2 Press [A-B] again at your chosen end point.

- “[A-B] A-B” appears briefly on the TV screen, and the repeat sequence begins.

3 To exit the sequence, press [A-B].

NOTES:

- The A-B repeat section can only be set within the current title (for DVDs) or current track (for Audio CDs).
- A-B repeat is not available with some scenes in DVD.
- To cancel the A point which was set, press [CLEAR].
- A-B repeat playback does not function during title, chapter, track or all repeat playback.

PROGRAM

CD

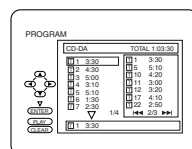
You may determine the order in which tracks will play.

1 In the stop mode, press [MODE].

- The “PROGRAM” screen will appear.

2 Using [▲ / ▼] select a track, then press [ENTER].

- Press [CLEAR] to erase the most recently entered track.
- If the entire Program cannot be displayed at once on a screen, “▶▶” appears to go to the next page and “◀◀” appears to go back to the previous page.



3 Repeat step 2 until you have selected all the tracks you want to play in the program.

4 Press [PLAY ▷] to play the programmed tracks.

NOTES:

- While the program is being played back, pressing [STOP ■] works as follows.
 - Press [STOP ■] once and then [PLAY ▷] again, playback will restart from the point where [STOP ■] was pressed. (Program continued)
 - Press [STOP ■] twice and then [PLAY ▷] again, playback will restart from the track in the usual way. (Program canceled)
- Up to 99 tracks can be entered.
- To erase all tracks in the program at once, select “ALL CLEAR” at the bottom of the list at step 2.
- If you like to repeat the current track in the program, press [REPEAT] several times until “[A-B] TRACK” appears during playback. If you like to repeat the entire program press [REPEAT] several times until “[A-B] ALL” appears during playback.

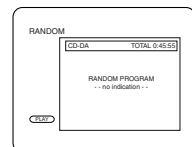
RANDOM PLAYBACK

CD

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

1 In the stop mode, press [MODE] twice.

- “RANDOM” screen appears.



2 Press [PLAY ▷] to start random playback.

NOTE:

- If you like to repeat the current track in the random selection, press [REPEAT] several times until “[A-B] TRACK” appears during playback. If you like to repeat the entire random selection press [REPEAT] several times until “[A-B] ALL” appears during playback.

CHANGING THE SETTINGS

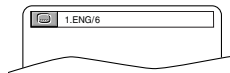
SUBTITLE LANGUAGE

DVD-V

The unit allows you to select a language for subtitles during DVD disc (if available) playback.

1 Press [SUBTITLE] during playback.

- The subtitle language will appear on the display bar at the top of the TV screen.



2 Press [SUBTITLE] repeatedly to select your desired subtitle language.

3 To turn off subtitles, press [SUBTITLE] repeatedly until "OFF" appears.

NOTES:

- Pressing [SUBTITLE] may not work on some DVDs with multiple subtitle languages. In this case, set it on the disc menu. (Operation varies between discs. Refer to the manual of the disc.)
- If the desired language is not shown after pressing [SUBTITLE] several times, the disc does not have subtitles in that language.
- 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 43.)

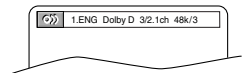


AUDIO LANGUAGE

DVD-V

The unit allows you to select a language during DVD disc (if multi languages are available) playback.

1 Press [AUDIO] during playback.



2 Press [AUDIO] repeatedly to select your desired language.

NOTE:

- Pressing [AUDIO] may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu).

STEREO SOUND MODE

CD

1 Press [AUDIO] repeatedly during playback to select between "STEREO", "L-ch" or "R-ch".



- STEREO - both right and left channels are active (stereo)
L-ch - only left channel is active
R-ch - only right channel is active

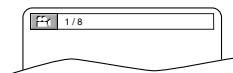
CAMERA ANGLE

DVD-V

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the “” icon appears on the screen.

1 Press [ANGLE] during playback.

- The selected angle will be displayed on the display bar at the top of the screen.



- If the “ANGLE ICON” setting is “OFF” in the “OTHERS” menu, the “” icon will not appear. (Refer to page 45.)

2 Press [ANGLE] repeatedly to select your desired angle.

BLACK LEVEL SETTING

DVD-V

Adjust the Black Level Settings to make the black parts of the picture brighter.

1 Press [MODE] during playback.



2 Press [ENTER] to switch “ON/OFF”.

ON: Makes the dark parts brighter.

OFF: Shows the original picture as recorded.
(Initial setting)

3 Press [MODE] twice or [RETURN] to exit.

NOTE:

- The setting will be saved even if the unit is turned off.

VIRTUAL SURROUND

DVD-V

CD

You can enjoy surround-sound effect over two speakers on this unit.

1 Press [MODE] twice (CD: once) during playback.



2 Press [ENTER] to set it “1” (Natural effect), “2” (Emphasized effect) or “OFF”.

3 Press [MODE] or [RETURN] to exit.

NOTE: (for CD play only)

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

THE ON-SCREEN INFORMATION

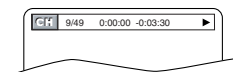
DVD-V CD

You can check the information about the current disc by pressing [DISPLAY].

For DVD-Vs

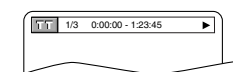
- 1 Press [DISPLAY] during playback to show current Chapter.

- The elapsed and remaining playing time of the current chapter will be displayed.



- 2 Press [DISPLAY] again to show current Title.

- The elapsed and remaining playing time of the current title will be displayed.



- 3 Press [DISPLAY] again.

- The bit rate and the current repeat setting will be displayed.
- If you are playing a dual layered disc, the layer number will also be displayed (L0: Layer 0 is playing. L1: Layer 1 is playing).



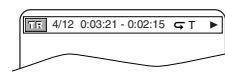
- 4 Press [DISPLAY] again to exit.



For Audio CDs

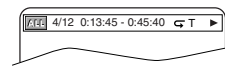
- 1 Press [DISPLAY] during playback to show the current Track.

- The elapsed and remaining playing time of the current track will be displayed.



- 2 Press [DISPLAY] again to show current Total Track.

- The elapsed and remaining playing time of the total track will be displayed.

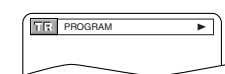


- 3 Press [DISPLAY] again to exit.



NOTE:

- When you are playing a disc in PROGRAM or RANDOM mode, “TR PROGRAM” (or RANDOM) will be displayed at step 2.



CHANGING THE DVD SET UP ITEMS

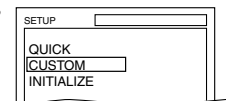
CUSTOM MENU

DVD-V

You can change the DVD player's settings.

1 Press [SETUP] twice in the stop mode so that the DVD SETUP menu appears.

- Press [▼] to select "CUSTOM" then press [ENTER].



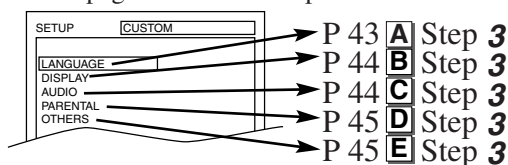
NOTE:

- If the menu does not appear, press [PLAY ▷] first, then press [STOP ■]. Make sure the disc is in the stop mode, then slowly press [SETUP] twice.

2 Select the desired item.

- Using [▲ / ▼] select the desired item then press [ENTER] to confirm.

Refer to the pages below to set up each item.



A LANGUAGE SETTING

Follow steps **1** to **2** in the "CUSTOM MENU" section above.

3 Using [▲ / ▼] select the desired item then press [ENTER].

AUDIO:

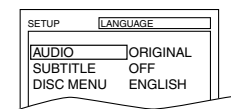
Sets the audio language.

SUBTITLE:

Sets the subtitle language.

DISC MENU:

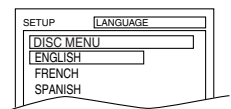
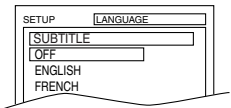
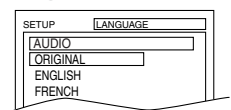
Sets the language for DVD menu.



4 Using [▲ / ▼] select a setting then press [ENTER].

- If "OTHER" is selected on the "AUDIO", "SUBTITLE" or "DISC MENU" screen, press four-digit number to enter the code for the desired language. (Refer to the language code list.)

- Only the languages supported by the disc can be selected.



5 Press [SETUP] to exit the menu.

NOTES:

- Language Setting for Audio and Subtitle are not valid for some discs due to default setting of the disc. In this case, set them by pressing [AUDIO] and [SUBTITLE]. (Refer to page 40.)
- If you select a language that is not supported by the disc, subtitle will automatically be set OFF and the first item of the audio languages will be automatically set.

Language	Code	Language	Code
A-B		L-N	
Abkhazian	4748	Laothian	5861
Afar	4747	Latin	5847
Afrikaans	4752	Latvian;Lettish	5868
Albanian	6563	Lingala	5860
Amharic	4759	Lithuanian	5866
Arabic	4764	Macedonian	5957
Armenian	5471	Malagasy	5953
Assamese	4765	Malay	5965
Aymara	4771	Malayalam	5958
Azerbaijani	4772	Maltese	5966
Bashkir	4847	Maori	5955
Basque	5167	Marathi	5964
Bengali;Bangla	4860	Moldavian	5961
Bhutani	5072	Mongolian	5960
Bihari	4854	Nauru	6047
Bislama	4855	Nepali	6051
Breton	4864	Norwegian [NOR]	6061
Bulgarian	4853	O-R	
Burmese	5971	Occitan	6149
Byelorussian	4851	Oriya	6164
C-E		Oromo(Afan)	6159
Cambodian	5759	Panjabi	6247
Catalan	4947	Pashto;Pushto	6265
Chinese [CHI]	7254	Persian	5247
Corsican	4961	Polish	6258
Croatian	5464	Portuguese [POR]	6266
Czech	4965	Quechua	6367
Danish [DAN]	5047	Rhaeto-Romance	6459
Dutch [DUT]	6058	Romanian [RUM]	6461
English [ENG]	5160	Russian [RUS]	6467
Esperanto	5161	S	
Estonian	5166	Samoan	6559
F-H		Sangho	6553
Faroese	5261	Sanskrit	6547
Fiji	5256	Scots Gaelic	6350
Finnish [FIN]	5255	Serbian	6564
French [FRE]	5264	Serbo-Croatian	6554
Frisian	5271	Sesotho	6566
Galician	5358	Setswana	6660
Georgian	5747	Shona	6560
German [GER]	5051	Sindhi	6550
Greek [GRE]	5158	Singhalese	6555
Greenlandic	5758	Siswat	6565
Guarani	5360	Slovak	6557
Gujarati	5367	Slovenian	6558
Hausa	5447	Somali	6561
Hebrew	5569	Spanish [SPA]	5165
Hindi	5455	Sundanese	6567
Hungarian [HUN]	5467	Swahili	6569
I-K		Swedish [SWE]	6568
Icelandic [ICE]	5565	T	
Indonesian	5560	Tagalog	6658
Interlingua	5547	Tajik	6653
Interlingue	5551	Tamil	6647
Inupiak	5557	Tatar	6666
Irish [IRI]	5347	Telugu	6651
Italian [ITA]	5566	Thai	6654
Japanese [JPN]	5647	Tibetan	4861
Javanese	5669	Tigrinya	6655
Kannada	5760	Tonga	6661
Kashmiri	5765	Tsonga	6665
Kazakh	5757	Turkish [TUR]	6664
Kinyarwanda	6469	Turkmen	6657
Kirghiz	5771	Twi	6669
Kirundi	6460	U-Z	
Korean [KOR]	5761	Ukrainian	6757
Kurdish	5767	Urdu	6764
		Uzbek	6772
		Vietnamese	6855
		Volapuk	6861
		Welsh	4971
		Wolof	6961
		Xhosa	7054
		Yiddish	5655
		Yoruba	7161
		Zulu	7267

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 above. If you choose any other languages, '---' will be displayed instead. (3 letter language code is written in bracket.)

B DISPLAY SETTING

Follow steps **1** to **2** in the “CUSTOM MENU” section on page 43.

- 3** Using [▲ / ▼] select the below items then press [ENTER].

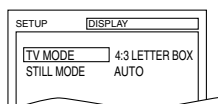
TV MODE: **QUICK**

You can change certain aspects of the DVD display screens and on-screen messages on the TV screen.

- **4:3 LETTER BOX** (default):

To show black bars on top and bottom of the screen.

- **4:3 PAN & SCAN**: To show a full height picture with both sides trimmed.



STILL MODE:

This function allows you to adjust picture resolution and quality in the still mode.

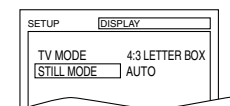
- **AUTO** (default):

Automatically select the best resolution setting (FRAME or FIELD) based on the data characteristics of the pictures.

- **FIELD**: Select “FIELD” when the pictures are still unstable even if “AUTO” is selected.

FIELD stabilizes the pictures, although the picture quality may become coarse due to the limited amount of data.

- **FRAME**: Select “FRAME” to display relatively motionless pictures in higher resolution. FRAME improves the picture quality, although it may destabilize the pictures due to simultaneous output of two field data.



- 4** Press [SETUP] to exit the menu.

C AUDIO SETTING

Choose the appropriate Audio settings for your equipment as it only affects during the playback of DVD discs.

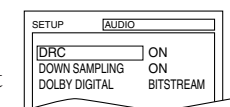
Follow steps **1** to **2** in the “CUSTOM MENU” section on page 43.

- 3** Using [▲ / ▼] select the below items then press [ENTER].

DRC

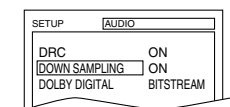
(Dynamic Range Control):

- To compress the range of soft to loud sound.
- The default setting is “ON”.



DOWN SAMPLING:

- **ON** : Output in 48 kHz. (default)
- **OFF** : Output the original sound.



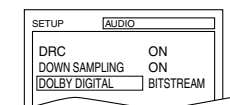
When playing disc with copyright Protection

- If you select “OFF”, copyright protection will be activated and sound will be down sampled at 48kHz.

DOLBY DIGITAL: **QUICK**

Set to “BITSTREAM” when the unit is connected to a Dolby Digital Decoder.

- **BITSTREAM**: Output a Dolby Digital signal (default)
- **PCM**: Convert the Dolby Digital to PCM (2 channel stereo)



- 4** Press [SETUP] to exit the menu.

QUICK MENU

- You can select the “TV MODE” or “DOLBY DIGITAL” from the QUICK menu quickly. To access the QUICK menu, select “QUICK” instead of “CUSTOM” at step **1** on page 43.

LANGUAGE SETTING FOR THE ON-SCREEN MENUS

- You can access the TV/VCR SETUP menu by pressing [SETUP] from the DVD mode. Refer to “MENU LANGUAGE” on page 21 to change the language for the on-screen menus.

D PARENTAL CONTROL

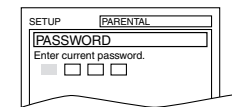
Parental Control limits the disc viewing that exceed your setting (with a password or playback will stop). This feature allows you to prevent discs with alternative scenes from being played by your children.

PARENTAL LEVEL

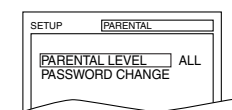
Parental Level allows you to set the rating level of your DVD discs. Playback will stop if the disc's ratings exceed the level you set.

Follow steps **1** to **2** in the "CUSTOM MENU" section on page 43.

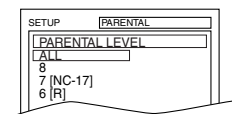
- 3** Enter your four-digit password then press [ENTER].



- 4** Using [▲ / ▼] select "PARENTAL LEVEL" then press [ENTER].



- 5** Using [▲ / ▼] select the desired level then press [ENTER].



- 6** Press [SETUP] to exit the menu.

NOTES:

- When doing this for the first time, enter any 4 digits. (except for 4737) That number will be used as the password. (in the event you forget the password, see below)
- To change the password, using [▲ / ▼] select "PASSWORD CHANGE" at step **4** then press [ENTER]. Enter the four-digit password, then press [ENTER].
- With some DVDs, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.

CONTROL LEVELS

• ALL

All parental lock is cancelled.

• Level 8

DVD software of any grade (adult/general/children) can be played back.

• Levels 7 to 2

Only DVD software intended for general use and children can be played back.

• Level 1

Only DVD software intended for children can be played back, with those intended for adult and general use prohibited.

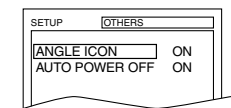
IF YOU FORGET THE PASSWORD

- 1** Press the Number buttons [4], [7], [3], [7] at step **3**. Then enter your new password.
 - Password will be cleared and parental level will be set to "ALL".
- 2** Proceed with steps **4** to **6** again.

E OTHER SETTINGS

Follow steps **1** to **2** in the "CUSTOM MENU" section on page 43.

- 3** Using [▲ / ▼] select the below items, then press [ENTER].



ANGLE ICON:

- Press [ENTER] repeatedly to turn Angle icon "ON" or "OFF".
- The default setting is "ON".

AUTO POWER OFF:

- Press [ENTER] repeatedly to turn Auto Power off "ON" or "OFF".
- The default setting is "ON" and the screen saver program starts when there is no input from the unit for 5 minutes in the stop mode. After the screen saver program is activated for 15 minutes, the power is automatically turned off.

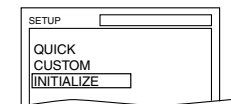
- 4** Press [SETUP] to exit the menu.

INITIALIZE

DVD-V

This allows you to return all selections of SETUP (except for "PARENTAL" and **menu language**) to their default settings.

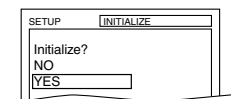
- 1** Press [SETUP] twice in the stop mode so that the "INITIALIZE" menu appears.
- 2** Using [▲ / ▼] select "INITIALIZE" then press [ENTER].



- 3** Using [▲ / ▼] select "YES" then press [ENTER] twice.

All the settings (except for "PARENTAL" and **menu language**) will be cleared.

- To cancel the initialization, select "NO".



- 4** Press [SETUP] to exit the menu.

TROUBLESHOOTING GUIDE

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

PROBLEM	CORRECTIVE ACTION
No power	• Make sure the power plug is connected to an AC outlet. • Make sure the power is turned on.
The unit does not respond to the remote control	• Aim the remote control directly at the sensor on the front of the unit. • Reduce the distance to the unit. You have to be within 23 feet. • Replace the batteries in the remote control. • Re-insert the batteries with their polarities (+/- signs) as indicated. • Tune your radio to an empty AM station so that you hear a lot of noises. Then, turn the volume up. If you hear some signal sound from the radio when pressing buttons on the remote control, the remote control is working. • Check if the correct mode is selected. If not switch the mode by pressing [SELECT], whichever you need.

TV/VCR Mode

Sometimes a performance problem can be easily solved by checking seemingly apparent but often overlooked possibilities. Before arranging for service, check these items. It could save your time and money.

PROBLEM	CORRECTIVE ACTION
No picture or sound	• Make sure the AC cord is connected to an AC outlet. • Check antenna connection. • Press [SELECT] to select TV mode. Then try other TV feature. • Let the unit program its tuner memory.
No picture or poor picture on the unit	• Adjust direction or replace antenna. • Adjust picture controls. • Check for broken pin of the antenna cable.
No sound or poor sound	• Adjust volume control on remote control or main unit. • Press [MUTE] to restore sound.
Bars On Screen	• If outside antenna is being used, check for broken wire. • Check for local interference.
Picture Distorted or Blurred	• Try a new channel, if OK, then possible station trouble. • If outside antenna is being used, check for broken wire.
Picture Rolls Vertically Lines or Streaks in Picture	• Try a new channel, if OK, then possible station trouble. • If outside antenna is being used, check for broken wire. • Check for local interference.
No Color	• Try a new channel, if OK, then possible station trouble. • Is antenna connected to jack on the back of the set? • If outside antenna is being used, check for broken wire. • Adjust "COLOR" control.
Poor Reception on Some Channels Ghosts in Picture	• Try a new channel, if OK, then possible station trouble. • Is antenna connected to jack on the back of the set? • If outside antenna is being used, check for broken wire. • Check for local interference.
Weak Picture	• Try a new channel, if OK, then possible station trouble. • Is antenna connected to jack on the back of the set? • If outside antenna is being used, check for broken wire. • Adjust "CONTRAST" & "BRIGHT" control.

PROBLEM	CORRECTIVE ACTION
Sound OK, Picture Poor	• Try a new channel, if OK, then possible station trouble. • Is antenna connected to jack on the back of the set? • If outside antenna is being used, check for broken wire. • Check for local interference. • Adjust “CONTRAST” & “BRIGHT” control.
Picture OK, Sound Poor	• Try a new channel, if OK, then possible station trouble. • Check for local interference.
Timer recording is not possible	• Make sure the timer recording is set correctly. • Make sure the power is off. • Make sure the unit’s clock is set correctly.
Cannot go into the recording mode	• Make sure the tape has an erase-prevention tab. If need, cover the hole with plastic tape.
Playback picture is partially noisy	• Adjust tracking control for a better picture using [CHANNEL ▲ / ▼] on the unit.
No picture but the audio is OK in playback	• Head cleaning may be necessary. Refer to “AUTO HEAD CLEANING” on page 49.
No operation by infrared remote control	• Make sure the AC cord is connected to an AC outlet. • Check batteries in remote control.
Video or color fades in and out when making a copy of a video tape	• You can not copy a copyrighted video tape. You are experiencing copy guard protection.
Different color marks on screen	• Magnetism from nearby appliances and geomagnetism might affect the color of the TV picture. Move the unit away from the appliances, the unit can repair itself automatically. If you want to repair immediately, unplug the power cord, then plug it in again 30 minutes later or so. This automatically resets the unit.

CLOSED CAPTION PROBLEM	POSSIBLE REMEDY
Misspelling in captions	• Error committed by the closed captioning production company. Possible in a live broadcast. Not in case of a prerecorded program.
Text is not shown in its entirety or a delay occurs from what is being said	• A few seconds of delay is common for live broadcast. • Display capacity may not exceed 220 words per minute. If a dialogue exceeds that rate, selective editing is used to insure that the captions remain up-to-date with the current TV screen dialogue.
Captions scrambled with white boxes	• Caused by interferences of building, power lines, thunderstorms, etc.
No captions in a program which must contain closed caption	• The broadcast may use a time compression process to speed up the program. The decoder cannot read the compressed information and captions will be lost.
No captions in a prerecorded videotape which indicated closed captions included	• Possibility of a illegal copy or an erroneous copying process accidentally performed by the fabricator.
Black box in the TV screen	• You are in TEXT mode. Select a CAPTION mode (“C1”, “C2”) or Caption “OFF”.

DVD Mode

PROBLEM	CORRECTIVE ACTION
No picture	• Insert a correct video disc that plays on this unit. • Press [SELECT] to select DVD mode, then try other DVD feature.
Disc cannot be played	• Insert the disc. • Clean the disc. • Place the disc correctly, with the label side up. • Cancel the parental lock or change the control level.
No sound	• 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	• This unit does not support DTS audio. This is not a malfunction.
Distorted picture	• There are some cases where pictures may be slightly distorted, which 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	• The selected language is not available for audio or subtitles on the DVD. (This is not a malfunction.)
The camera angle cannot be changed	• The DVD does not contain sequences recorded from different camera angles. (This is not a malfunction.)
Audio or subtitle language cannot be changed	• 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	• That operation is prohibited by the unit or the disc. (This is not a malfunction.)
CD sound dropout No CD reproduction DVD picture dropout DVD picture freeze DVD picture in mosaic No DVD reproduction	• Scratched disc. Replace the disc with an unscratched one.

NOTES:

- 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.

MAINTENANCE

CABINET CLEANING

- Wipe the front panel and other exterior surfaces of the unit with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the unit. Such chemicals may cause damage and discoloration to the exposed surfaces.

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 long periods 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 unit may need to be cleaned.

IF THE LASER OPTICAL PICKUP UNIT IS DIRTY

- If the unit still does not perform properly when it is operated, while referring 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.

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.

SERVICING

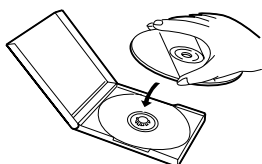
- Should your unit become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power cord and **please call our help line mentioned on the front page**, to locate an Authorized Service Center.

DISC HANDLING

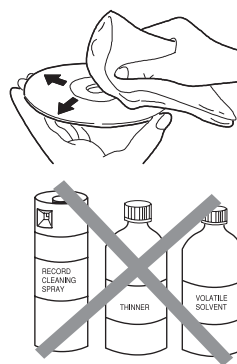
- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.



- Always store the disc in its protective case when it is not used.



- To clean-off, use a soft cloth.
- Do not use a hard cloth since this will mar the disc.
- Wipe the disc in a straight line from center to edge.
- Never wipe with a circular motion.
- Do not use detergent or abrasive cleaning agents.



SPECIFICATIONS

GENERAL SPECIFICATIONS

TV/VCR

CRT:	24 inch in-line gun, 90° deflection tube
Television system:	NTSC-M
Closed caption system:	§15.119/FCC
Video Heads:	Rotary four-head
Tape width:	1/2 inch
Tape speed	
SP:	33.40mm/sec.
LP:	16.67mm/sec.
SLP:	11.12mm/sec.
Tuner channel	
TV VHFLow:	#2~#6
TV VHFHigh:	#7~#13
TV UHF:	#14~#69
CATV	
VHF:	5A
MID band:	A5~A1, A~I
SUPER band:	J~W
HYPER band:	W+1~W+84

DVD

Product type:	DVD Player
Discs:	DVD video, Audio CD
Output signal format:	NTSC color

ELECTRICAL SPECIFICATIONS

Sound output:	2 speakers, 1W, 8 ohm
---------------	-----------------------

OTHER SPECIFICATIONS

Terminals	
Antenna input:	VHF/UHF/CATV 75 ohm unbalanced (F-type)
Video input:	RCA connector × 1
Audio L/R input:	RCA connector × 2
Headphone:	1/8" stereo (3.5mm)
Coaxial digital audio output:	One pin jack, 500m Vpp (75 ohm)
Remote control:	Digital encoded infrared light system
Operating temperature:	5°C to 40°C (41°F~104°F)
Power requirements:	AC 120V, 60Hz
Power consumption (Maximum):	120W
Picture tube:	24"
Dimensions:	H : 22-11/16" (576mm) W : 24-1/8" (612mm) D : 19" (482mm)
Weight:	61.7 lbs. (28kg)

- Designs and specifications are subject to change without notice.
- If there is a discrepancy between languages, the default language will be English.

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CONTROLES DE OPERACIÓN Y FUNCIONES

- Consulte la figura 1 de la página 9 para el panel frontal de la unidad
- Consulte la figura 2 de la página 9 para el mando a distancia
- Consulte la figura 3 de la página 10 para la vista posterior

- Botón POWER**
Presione para encender y apagar la unidad.
- Botones VOLUME (VOL.) ▲ / ▼**
Presione para controlar el nivel de volumen del DVD y el televisor.
- Botones SKIP ◀◀ / ▶▶ (para DVD)**
Presione una vez para omitir capítulos o pistas y desplazarse a un punto específico.
Botones SEARCH ◀◀ / ▶▶ (para DVD)
Mantenga el botón presionado para cambiar la velocidad de reproducción en avance o retroceso.
- Botón ▶ PLAY**
Inicia la reproducción del contenido del disco o cinta.
- Botón ■ STOP**
(Panel frontal) Detiene la operación del disco.
(Mando a distancia) Detiene la operación del disco o el casete.
- Botón ▲ OPEN/CLOSE**
Presione para insertar un disco en la bandeja o retirarlo de ella.
- Bandeja de carga del disco**
- Indicador DVD**
Se ilumina durante el modo DVD.
- Botón SELECT**
Presione para cambiar al modo TV/VCR, modo de entrada externa o modo de DVD. El modo seleccionado (TV/VCR o DVD) se visualiza en el indicador del panel delantero.
- Indicador TV/VCR**
Se ilumina durante el modo TV/VCR.
- Botones CHANNEL (CH.) ▲ / ▼**
Utilice para seleccionar canales memorizados.
- Indicador de grabación**
Parpadea durante la grabación. Se ilumina durante el modo de espera de grabación controlada por temporizador.
- Botón ● REC/OTR (Panel frontal)**
Presione para empezar la grabación manual. Presione repetidamente para empezar la grabación instantánea (OTR).
Botón RECORD (Mando a distancia)
Presione para empezar la grabación manual.
- Botón ◀◀ REW (para TV/VCR)**
Presione para rebobinar la cinta o para ver la imagen rápidamente en dirección de retroceso durante el modo de reproducción. (Búsqueda en dirección de retroceso)
- Botón F.FWD ▶▶ (para TV/VCR)**
Presione para adelantar rápidamente la cinta o para ver la imagen rápidamente en dirección de avance durante el modo de reproducción. (Búsqueda en dirección de avance)
- Botón ■ / ▲ STOP/EJECT**
Presione para detener la cinta. Presione en el modo de parada para retirar la cinta de la unidad.
- Ventanilla del sensor de mando a distancia**
- Toma HEADPHONE**
Para conectar auriculares (no suministrados) y escuchar en privado.
- Toma de entrada VIDEO**
Conecte aquí la toma de salida de video de una videocámara o de una videgrabadora.
- Tomas de entrada AUDIO L/R**
Conecte aquí las tomas de salida de audio de una videocámara o de una videgrabadora.
- Compartimiento del cassette**
- Botón PICTURE**
Presione para ajustar la imagen.
- Botones numéricos**
Modo TV/VCR:
Presione dos cifras para acceder directamente al canal deseado.
No olvide presionar [0] antes de elegir un canal de una sola cifra.
Botón +100
Presione para seleccionar canales de televisión por cable cuyo número sea superior a 99.
Modo DVD:
Presione para introducir el número deseado.
Botón +10
Presione para introducir números superiores a 9.
- Botón PAUSE II**
Hace una pausa en la reproducción del disco o cinta.
- Botón SPEED**
Presione para seleccionar la velocidad de grabación deseada: SP/SLP.
- Botón C.RESET**
Presione para poner el contador en 0:00:00.
Presione también para cancelar un ajuste de programa de temporizador.
- Botón DISPLAY**
Modo TV/VCR:
Indica el contador o el número del canal y la fecha actual en la pantalla del televisor.
Modo DVD:
Indica el estado actual en la pantalla del televisor.
- Botón SETUP**
Presione para entrar o salir del menú de configuración de televisor o DVD.
- Botón TITLE**
Para visualizar el menú de títulos.

30. Botón CLEAR

Presione para cancelar o borrar un ajuste entrado actualmente.

31. Botón MODE

Presione para llamar la pantalla de la reproducción programada o la de reproducción aleatoria en el modo de parada.

Presione para llamar la pantalla de ajuste del nivel del negro o la pantalla de sonido ambiental durante la reproducción.

32. Botón SEARCH MODE

Presione para localizar un punto deseado.

33. Botón AUDIO

Modo TV/VCR:

Presione para seleccionar el modo de sonido deseado cuando vea un programa de TV o reproduzca o grabe un casete.

Modo DVD:

Presione para seleccionar un modo de sonido o idioma de audio deseado.

34. Botón SUBTITLE

Presione para seleccionar el idioma de subtítulos deseado.

35. Botón REPEAT

Repite la reproducción del disco, título, capítulo o pista actual.

36. Botón ANGLE

Presione para cambiar el ángulo de la cámara y ver la secuencia que se está reproduciendo desde un ángulo diferente (si existe).

37. Botón A-B (modo DVD)

Repite la reproducción de una sección seleccionada.

38. Botón RETURN

Permite volver a la pantalla anterior en el menú de configuración.

39. Botones ▲ / ▼ / ◀ / ▶

Modo TV/VCR:

Presione para seleccionar un modo de ajuste en el menú que aparece en la pantalla del televisor.

Presione también para seleccionar o establecer ajustes en un menú en particular.

Modo DVD:

Presione para hacer una selección en el menú.

40. Botón ENTER

Presione para establecer un ajuste.

41. Botón DISC MENU

Muestra menú del DVD.

42. Botón ZOOM

Amplía parte de la imagen reproducida de un DVD.

43. Botón MUTE

Suprime la salida de sonido. Presione de nuevo para restablecer el sonido.

44. Botón SLEEP

Utilice para ajustar el temporizador de dormir.

45. Toma ANT.

Conecte a una antena, sistema de televisión por cable o sistema de satélite.

46. Cable de alimentación

Conecte a un toma de CA estándar (120 V/60 Hz).

NOTA:

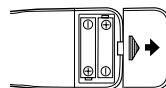
- Antes de conectar el cable de alimentación de una toma de CA estándar, retírelo del gancho para evitar dañarlo.

47. Toma AUDIO OUT COAXIAL

Conecte solamente a la entrada digital de un amplificador externo o decodificador (para audio de DVD solamente).

PARA INSERTAR LAS PILAS

- 1) Abra la cubierta del compartimiento de las pilas empujando la cubierta del mando a distancia en el sentido de la flecha.



- 2) Inserte 2 pilas "AA" en el compartimiento de las pilas, en el sentido indicado por las marcas de polaridad (+/-).
- 3) Vuelva a poner la cubierta.

PREPARACIÓN PARA LA UTILIZACIÓN

CONEXIONES DE ANTENA/CABLE

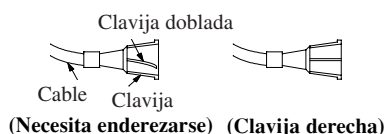
Consulte la figura 4 de la página 12

Nota para el instalador de sistemas CATV:

Esta nota tiene la finalidad de llamar la atención del instalador de sistemas CATV para que tenga en cuenta el Artículo 820-40 de la NEC, que proporciona recomendaciones para hacer una conexión a tierra apropiada y, en particular, especifica que la tierra del cable debe conectarse al sistema de puesta a tierra del edificio, tan cerca del punto de entrada del cable como sea posible.

NOTA:

- Antes de enchufar la antena a la toma ANT. de la unidad, compruebe que la clavija no esté doblada. Si esta doblada, póngala derecha como se muestra en la ilustración, y luego conéctela en la toma ANT. de la unidad.



- Para su seguridad y para evitar que se dañe la unidad, desenchufe el cable de antena de la toma ANT. antes de mover la unidad.

CONEXIÓN A TOMAS DE ENTRADA DELANTERAS

Cuando vea un programa grabado en otra fuente (videgrabadora o videocámara), utilice las tomas de entrada AUDIO/VIDEO de la parte delantera de la unidad.

Conecte las tomas de salida de audio/vídeo de otra fuente a las tomas AUDIO L/R y VIDEO de esta unidad.

Después, presione [SELECT] o [CH. ▲ / ▼] hasta que aparezca “AUX” en la pantalla.

Consulte la figura 5 de la página 13

NOTA:

- Cuando conecte una videgrabadora monofónica (otra fuente) a esta unidad, conecte la toma de salida de audio de la videgrabadora monofónica (otra fuente) a la toma AUDIO L de esta unidad. El audio saldrá igualmente por los canales izquierdo y derecho.

CONEXIÓN A UN AMPLIFICADOR ESTÉREO EQUIPADO CON TOMAS DE ENTRADA DIGITAL (para DVD)

Utilice un cable digital coaxial de audio (disponible en el comercio) para hacer las conexiones de audio.

Conexión a un amplificador equipado con tomas de entrada digital, platina MD o platina DAT.

Consulte la figura 6 de la página 13

NOTAS:

- La fuente de audio de un disco grabado en formato de sonido envolvente Dolby Digital de 5,1 canales no se puede grabar como sonido digital mediante una platina MD o DAT.
- Asegúrese de apagar todos los componentes del sistema antes de conectar otro componente.
- Consulte los manuales de instrucciones de los componentes que va a conectar a la unidad.
- Ajuste la función “DOLBY DIGITAL” a “PCM” para salida de audio en el modo de configuración. La reproducción en una unidad utilizando ajustes incorrectos puede generar ruido y distorsión, y también puede provocar daños a los altavoces.

CONEXIÓN A UN DECODIFICADOR DOLBY DIGITAL (para DVD)

Si utiliza esta unidad para reproducir un disco DVD grabado en formato de sonido envolvente Dolby Digital de 5,1 canales, la unidad emitirá un flujo de datos DOLBY DIGITAL desde su toma AUDIO OUT COAXIAL. Si conecta la unidad a un decodificador Dolby Digital, podrá disfrutar de una tonalidad más convincente y real, con un sonido envolvente potente y de alta calidad similar al de los cines.

Utilice cables digitales coaxiales de audio (disponibles en el comercio) para hacer las conexiones de audio.

Consulte la figura 7 de la página 14

NOTAS:

- Asegúrese de apagar todos los componentes del sistema antes de conectar otro componente.
- Consulte los manuales de instrucciones de los componentes que va a conectar a la unidad.
- Si conecta un decodificador Dolby Digital, ajuste la función “DOLBY DIGITAL” a “BITSTREAM” para salida de audio en el modo de configuración.
- A menos que se haga la conexión a un decodificador Dolby Digital, ajuste la función “DOLBY DIGITAL” a “PCM” para salida de audio en el modo de configuración. La reproducción en una unidad utilizando ajustes incorrectos puede generar ruido y distorsión, y también puede provocar daños a los altavoces.

Fabricado bajo licencia de Dolby Laboratories. “Dolby” y el símbolo de la doble D son marcas comerciales de Dolby Laboratories.

SECCIÓN DE TV/VCR

FUNCIONES Y AJUSTES DE TV

PARA MIRAR UN PROGRAMA DE TV

TV/VCR

1 Enchufe el cable eléctrico

Enchufe el cable eléctrico de la unidad en un tomacorriente de CA del hogar.

NOTA:

- Si aparecen números en la esquina de la pantalla, presione [POWER] sin desenchufar el cable eléctrico.

2 Encienda la unidad

Presione [POWER] para encender la unidad.

3 Seleccione el número de canal

Presione [CH. ▲ / ▼] o los botones numéricos para seleccionar su número de canal deseado.

Nota para el uso de los botones numéricos:

- Debe colocar un cero antes de los números de canal de una sola cifra (por ejemplo: 02, 03, 04, etc.).
- Cuando seleccione canales de cable de más de 99, presione primero [+100] y después las dos últimas cifras. (Ejemplo: para seleccionar el canal 125, primero presione [+100] y después presione [2] y [5].)

4 Ajuste el sonido

Presione [VOL. ▲ / ▼] para ajustar el volumen.

Presione [MUTE] para silenciar instantáneamente el sonido.

Presione nuevamente para recuperar el nivel de sonido anterior.

NOTA:

- Si presiona [CH. ▲ / ▼] en el modo DVD, puede cambiar los canales de TV. Incluso si apaga la unidad en el modo DVD, cuando vuelva a encender, volverá al modo TV/VCR.

PARA VER CANALES DE CABLE O SATELITE

- Si la unidad está conectada a una caja de cable o caja de satélite, presione [CH. ▲ / ▼] para seleccionar CH3 o CH4 de acuerdo con el ajuste de canal de salida del dispositivo y seleccione el canal deseado en el dispositivo.

PARA VER UNA ENTRADA EXTERNA

- Cuando se conecta un equipo externo en las tomas de entrada AUDIO/VIDEO frontales, presione [SELECT] o [CH. ▲ / ▼] repetidamente hasta que aparezca "AUX" en la pantalla.

IDIOMA DEL MENÚ

TV/VCR

1 Seleccione "LANGUAGE"

Presione [SETUP].

Presione [▲ / ▼] para apuntar a "LANGUAGE".

2 Seleccione "ENGLISH", "ESPAÑOL" o "FRANÇAIS"

Presione [ENTER] repetidamente para seleccionar "ENGLISH" = inglés, "ESPAÑOL" o "FRANÇAIS" = francés.

3 Salga del modo de idioma

Presione [SETUP] para salir del menú.

NOTAS:

- Esta función afecta sólo el idioma en el menú de la pantalla y no la fuente de audio.
- Si por alguna razón, el menú está en francés, presione [SETUP], presione [▲ / ▼] para apuntar al "LANGAGE [FRANÇAIS]" y presione [ENTER] repetidamente para seleccionar el idioma deseado y presione [SETUP].

AJUSTE DEL RELOJ

TV/VCR

AJUSTE MANUAL DEL RELOJ

Asegúrese ...

- La unidad debe estar encendida.

En el siguiente ejemplo, el reloj debe estar en:

FECHA	6 de mayo, 2005
HORA DE AJUSTE	5:40PM

1 Seleccione "AJUSTE RELOJ"

Presione [SETUP].

Presione [▲ / ▼] para seleccionar "AJUSTE RELOJ" y presione [ENTER].

2 Seleccione "AJUSTE MANUAL RELOJ"

Presione [▲ / ▼] para seleccionar "AJUSTE MANUAL RELOJ" y presione [ENTER].

3 Seleccione el mes

Presione [▲ / ▼] hasta que aparezca el mes deseado. (Ejemplo: Mayo → "05")

Presione [►]. (O presione [◄] para volver un paso.)

4 Seleccione el día

Presione [▲ / ▼] hasta que aparezca el día deseado. (Ejemplo: 6º → "06")

Presione [►].

5 Seleccione el año

Presione [▲ / ▼] hasta que aparezca el año deseado.
(Ejemplo: "2005")

Presione [►].

6 Seleccione la hora

Presione [▲ / ▼] hasta que aparezca la hora deseada.
(Ejemplo: "5", "PM")

Presione [►].

7 Seleccione los minutos

Presione [▲ / ▼] hasta que aparezcan los minutos deseados.

(Ejemplo: "40")

8 Haga funcionar el reloj

Presione [SETUP].

Aunque no aparezcan los segundos, empezará a contar desde 00 cuando presione [SETUP]. Utilice esta característica para sincronizar el reloj con la hora real.

GRABACIÓN

GRABACIÓN NORMAL

TV/VCR

SOLO puede ver el mismo programa que se está grabando.

1 Seleccione el canal a grabar

Presione **los botones numéricos** o [CH. ▲ / ▼].

NOTA:

- Si la unidad está conectada a una caja de cable o caja de satélite, la unidad debe estar en CH3 o CH4 y debe seleccionarse el canal a grabar en la caja de cable o caja de satélite.

2 Seleccione la velocidad de la cinta

Presione [SPEED] para seleccionar la velocidad de cinta deseada (SP/SLP).

3 Empiece a grabar

Presione [RECORD].

4 Pare la grabación

Presione [STOP ■].

SECCIÓN DE DVD

REPRODUCCIÓN BÁSICA

DVD-V CD

Para empezar

- Conecte la alimentación del amplificador y otros componentes, si es necesario.

1 Presione [POWER].

- La alimentación se conectará.

2 Presione [▲ OPEN/CLOSE] para abrir la bandeja de carga del disco.

3 Ponga el disco deseado en la bandeja, con la etiqueta hacia arriba.

4 Presione [PLAY ▷].

- La bandeja se cerrará automáticamente y la reproducción comenzará desde el primer capítulo o pista del disco.
- **La reproducción también empieza cerrando manualmente la bandeja del disco o presionando [▲ OPEN/CLOSE].**
- Si la reproducción no comienza automáticamente, presione [PLAY ▷].
- Cuando reproduzca un DVD que tenga grabado un menú de títulos, el menú podrá aparecer en la pantalla.

5 Presione [STOP ■] para detener la reproducción.

MENÚ DE DISCO

DVD-V

1 Presione [DISC MENU].

- Aparecerá el menú principal de DVD.
- Si no existe la función, puede aparecer el símbolo  en la pantalla de TV.
- Si el menú de disco existe en el disco, aparecerán el idioma de audio, opciones de subtítulo, capítulos para el título y otras opciones para su selección.

2 Presione [▲ / ▼ / ◀ / ▶] para seleccionar un ítem y presione [ENTER] para confirmar la selección.

REANUDACIÓN

DVD-V CD

1 Durante la reproducción, presione [STOP ■].

- Aparecerá el mensaje de continuación en la pantalla de TV.

2 Presione [PLAY ▷], la reproducción continuará desde el punto donde se paró la reproducción.

- Para cancelar la continuación, presione dos veces [STOP ■].
- La información de continuación permanece activada incluso cuando apaga el interruptor principal.

SYLVANIA

LIMITED WARRANTY

FUNAI CORP. will repair this SYLVANIA product, free of charge in the USA in the event of defect in materials or workmanship as follows:

DURATION:

PARTS: FUNAI CORP. will provide parts to replace defective parts without charge for one (1) year from the date of original retail purchase. Two (2) years for Picture Tube. Certain parts are excluded from this warranty.

LABOR: FUNAI CORP. will provide the labor without charge for a period of ninety (90) days from the date of original retail purchase.

LIMITS AND EXCLUSIONS:

THIS WARRANTY IS EXTENDED ONLY TO THE ORIGINAL RETAIL PURCHASER. A PURCHASE RECEIPT OR OTHER PROOF OF ORIGINAL RETAIL PURCHASE WILL BE REQUIRED TOGETHER WITH THE PRODUCT TO OBTAIN SERVICE UNDER THIS WARRANTY.

This warranty shall not be extended to any other person or transferee.

This warranty is void and of no effect if any serial numbers on the product are altered, replaced, defaced, missing or if service was attempted by an unauthorized service center. This SYLVANIA Limited warranty does not apply to any product not purchased and used in the United States.

This warranty only covers failures due to defects in material or workmanship which occurs during normal use. It does not cover damage which occurs in shipment, or failures which are caused by repairs, alterations or product not supplied by FUNAI CORP., or damage which results from accident, misuse, abuse, mishandling, misapplication, alteration, faulty installation, improper maintenance, commercial use such as hotel, rental or office use of this product or damage which results from fire, flood, lightning or other acts of God.

THIS WARRANTY DOES NOT COVER PACKING MATERIALS, ANY ACCESSORIES (EXCEPT REMOTE CONTROL), ANY COSMETIC PARTS, COMPLETE ASSEMBLY PARTS, DEMO OR FLOOR MODELS.

FUNAI CORP. AND ITS REPRESENTATIVES OR AGENTS SHALL IN NO EVENT BE LIABLE FOR ANY GENERAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR OCCASIONED BY THE USE OF OR THE INABILITY TO USE THIS PRODUCT. THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER LIABILITIES ON THE PART OF FUNAI. ALL OTHER WARRANTIES INCLUDING THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED BY FUNAI AND ITS REPRESENTATIVES IN THE UNITED STATES.

ALL WARRANTY INSPECTIONS AND REPAIRS MUST BE PERFORMED BY AN AUTHORIZED SERVICE CENTER. THIS WARRANTY IS ONLY VALID WHEN THE UNIT IS CARRIED-IN TO AN AUTHORIZED SERVICE CENTER.

IMPORTANT:

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE. IF, AT ANY TIME DURING THE WARRANTY PERIOD, YOU ARE UNABLE TO OBTAIN SATISFACTION WITH THE REPAIR OF THIS PRODUCT, PLEASE CONTACT FUNAI CORP.

ATTENTION:

FUNAI CORP. RESERVES THE RIGHT TO MODIFY ANY DESIGN OF THIS PRODUCT WITHOUT PRIOR NOTICE.

To locate your nearest AUTHORIZED SERVICE CENTER or for general service inquiries, please contact us at:

FUNAI CORPORATION

Customer Service

Tel :1-800-968-3429

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