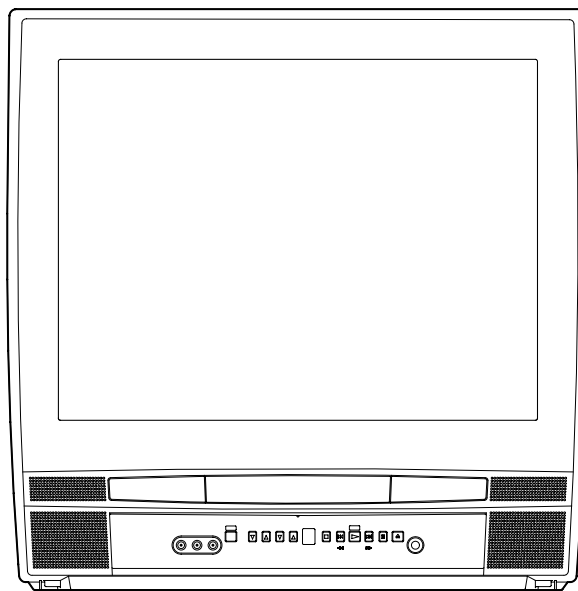# OWNER'S MANUAL
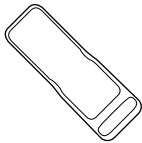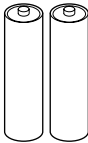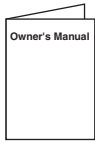

"EMERSON AND THE G-CLEF LOGO ARE REGISTERED TRADEMARKS OF EMERSON RADIO CORP., PARSIPPANY, NEW JERSEY, U.S.A."

COLOR TV/DVD

EWC20D5 A (20 inch)

SUPPLIED ACCESSORIES

Remote Control Unit	Batteries	Owner's Manual
NE221UD	2 AA Batteries	1EMN20223

**INSTRUCCIONES
EN ESPAÑOL INCLUIDAS.**

If you need additional assistance for set-up or operating after reading owner's manual, please call **TOLL FREE : 1-800-256-2487.**
Or visit our **WEB SITE** at **http://www.emersonaudiovideo.com**

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 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.

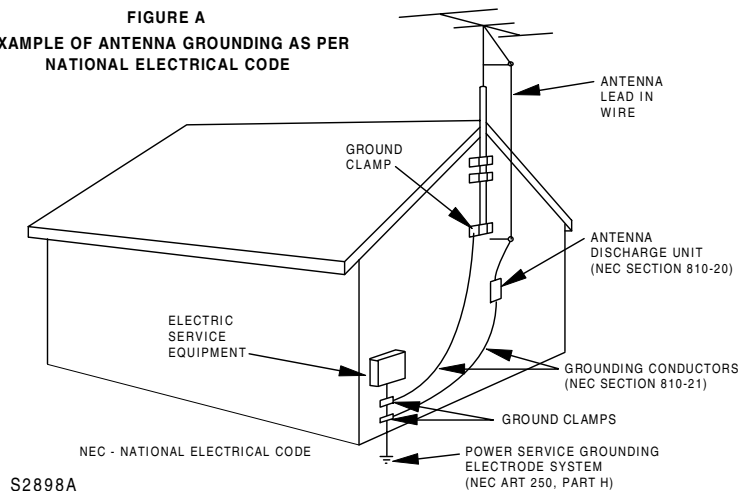PORTABLE CART WARNING
AVERTISSEMENT POUR UNE
TABLE ROULANTE PORTATIVE

S3126A

Accessoires- Ne placez pas cette unit sur une table roulante, un support, un trépied, une console ou une table instable. Cette unit risquerait de tomber, pouvant gravement blesser quelqu'un et l'appareil même pourrait être sérieusement endommagé. N'utilisez qu'une table roulante, un support, un trépied, une console ou une table recommandé par le fabriquant, ou vendu avec la unit. Pour n'importe quelle installation de l'appareil, on devra suivre les instructions du fabriquant et l'on devra utiliser les accessoires d'installation recommandés par le fabriquant. L'ensemble combiné de l'appareil avec une table roulante devra être déplacé avec précaution. Des arrêts brusques, une force excessive et des surfaces inégales peuvent provoquer le renversement de l'ensemble combiné de l'appareil/table roulante.

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 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.

– 2 –

FIGURE A
EXAMPLE OF ANTENNA GROUNDING AS PER
NATIONAL ELECTRICAL CODE

ANTENNA
LEAD IN
WIRE

GROUND
CLAMP

ANTENNA
DISCHARGE UNIT
(NEC SECTION 810-20)

ELECTRIC
SERVICE
EQUIPMENT

GROUNDING CONDUCTORS
(NEC SECTION 810-21)

GROUND CLAMPS

NEC - NATIONAL ELECTRICAL CODE

POWER SERVICE GROUNDING
ELECTRODE SYSTEM
(NEC ART 250, PART H)

S2898A

12. **Power-Cord Protection**-Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. **Outdoor Antenna grounding-**If an outside antenna or cable system is connected to the 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 CHOCS 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 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 unit to locations where temperature differences are extreme.

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 unit. Therefore when the condensation occurs inside the unit, turn POWER 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 |

: Description refers to TV operation (in the TV 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).

TABLE OF CONTENTS

FEATURES

TV Mode

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

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

- **Infrared remote control**

- **Trilingual on screen menu display selectable in English, Spanish or French**

- **Sleep Timer**

  The Sleep Timer function enables you to shut off the power without hitting **[POWER]** after a desired time period.

- **Closed Caption Decoder**

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

- **Auto Shut Off Function**

  If there is no air signal input from the antenna terminal and no operation for 15 minutes, the unit will turn itself off automatically.

- **V-CHIP**

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

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. When the screen saver program is activated for 15 minutes, the power is automatically turned 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, Audio CD on disc.

- **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

- **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.
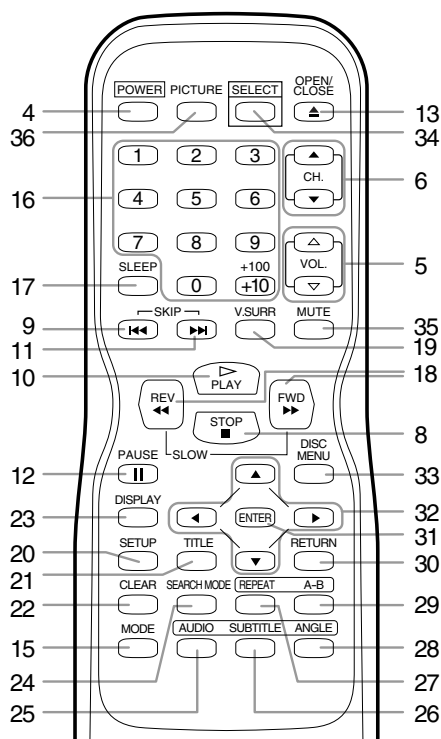
OPERATING CONTROLS AND FUNCTIONS

FRONT PANEL [Fig. 1]

1 2 3 4 5 6 7 8 9 10 11 12 13 14
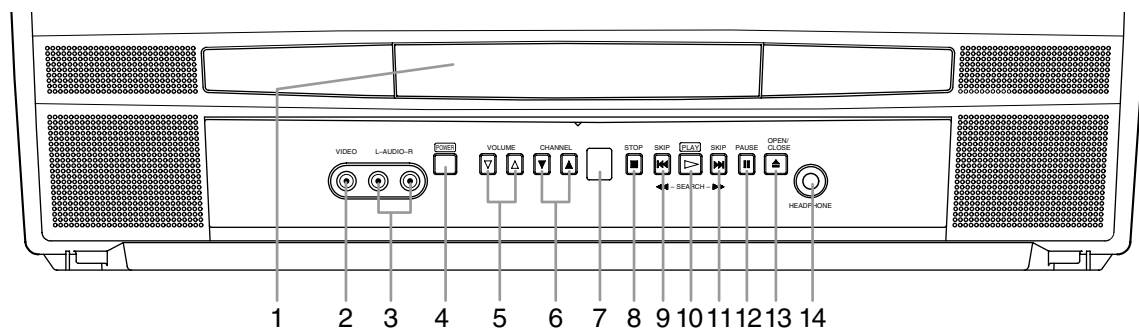
REMOTE CONTROL [Fig. 2]

1. Disc loading tray

2. VIDEO input Jack [page 11]
Connect to the video output jack of a video camera or VCR.

3. AUDIO L/R input Jacks [page 11]
Connect to the audio output jacks of a video camera or VCR.

4. POWER Button [page 13]
Hit to turn the power on and off.

5. VOLUME ▲/▼ (VOL. △/▽) Buttons [page 15]
Press to control the volume level for the DVD and TV.

6. CHANNEL ▲/▼ (CH. ▲/▼) Buttons [page 15]
Press to select memorized channel.
Press to change to TV mode when DVD mode.

7. Remote Sensor Window

8. STOP ■ Button [page 21]
Stops operation of the disc.

9. SKIP |◄◄ Button [page 22]
Plays back from the beginning of the current chapter or track.

   SEARCH ◄◄ Button (Front Panel) [page 21]
During playback or in the pause mode, press and hold button down for a few seconds to change reverse playback speed.

10. PLAY ▷ Button [page 20]
Starts playback of the disc contents.
Hit to change to DVD mode when TV mode.

11. SKIP ►►| Button [page 22]
Plays back from the beginning of the next chapter or track.

   SEARCH ►► Button (Front Panel) [page 21]
During playback or in the pause mode, press and hold button down for a few seconds to change forward playback speed.

12. PAUSE ❚❚ Button [page 21]
Pauses the current disc operation.

13. OPEN/CLOSE ▲ Button [page 20]
Hit to insert a disc into or remove it from the tray.

14. HEADPHONE Jack
To connect headphone (not supplied) for personal listening.

15. MODE Button [pages 23-24]
Activates program playback or random playback mode when playing CDs.

16. Number Buttons
   TV Mode: [page 14]
Hit two digits to directly access the desired channel. Remember to hit **[0]** before a single digit channel.
   +100 Button
Hit to select cable channels which are higher than 99.
   DVD Mode: [page 22]
Hit to enter the desired number.
   +10 Button
Hit to enter the desired numbers which are higher than 9.

COAXIAL   ANT.

37   38   39
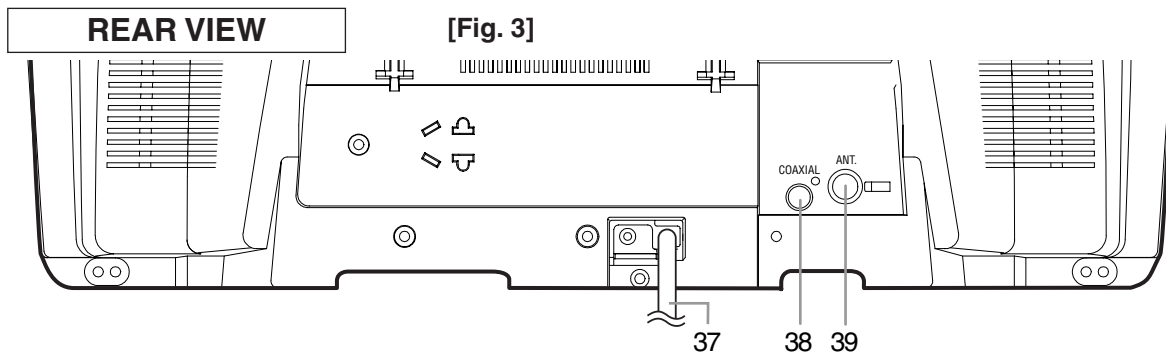
17. SLEEP Button [page 16]
Hit to display the sleep timer and start the function. The shut off time can be determined by the number of times you hit this button. (0, 30, 60, 90 or 120 minutes)

18. REV ◄◄ Button [page 21]
Hit to fast reverse the Disc. Hit [**PAUSE ▐▐**], then hit this button to begin slow motion playback. Hit this button repeatedly to change the reverse speed of slow motion.

FWD ►► Button [page 21]
Hit to fast forward the Disc. Hit [**PAUSE ▐▐**], then hit this button to begin slow motion playback. Hit this button repeatedly to change the forward speed of slow motion.

19. V.SURR (VIRTUAL SURROUND) Button [page 25]
Hit to set virtual surround on/off.

20. SETUP Button [pages 13, 27-29]
Hit to enter or exit the setup menu of TV or DVD.

21. TITLE Button [page 20]
Displays the title menu.

22. CLEAR Button [pages 22-23]
Resets a setting.

23. DISPLAY Button
TV Mode:
Hit to display the channel number on the screen. If you hit it again, the channel number will disappear.
DVD Mode: [page 26]
Displays the current status on the TV screen.

24. SEARCH MODE Button [page 22]
Hit to locate a desired point.

25. AUDIO Button [page 24]
Hit to select a desired audio language or sound mode.

26. SUBTITLE Button [page 24]
Hit to select a desired subtitle language.

27. REPEAT Button [page 23]
Repeats playback of the current disc, title, chapter or track.

28. ANGLE Button [page 25]
Hit to change the camera angle to see the sequence being played back from a different angle (if available).

29. REPEAT A-B Button [page 23]
Repeats playback of a selected section.

30. RETURN Button [page 22]
Returns to the previous screen in the setup menu.

31. ENTER Button [pages 13, 20]
Hit to accept a setting.

32. ▲ / ▼ / ◄ / ► Buttons
TV Mode: [page 13]
Hit to select a setting mode from the menu on the TV screen.
Hit to select or adjust from a particular menu.
DVD Mode: [page 20]
Press to select a menu item.

33. DISC MENU Button [page 20]
Displays the menus in the DVD.

34. SELECT Button [page 20]
Hit to change to TV mode, external input mode or DVD mode.

NOTE: When you select the DVD mode by this button, press [**PLAY ▷**] or [**OPEN/CLOSE ▲**] first. Otherwise, the DVD features are not operated.

35. MUTE Button [page 15]
Hit to turn off the sound portion of the TV program. (Volume level display turns LIGHT RED from LIGHT BLUE.) Hit it again or hit [**VOL. △/▽**] to restore sound.

36. PICTURE Button [page 15]
Hit to enter picture adjustment mode.

37. Power cord
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.

38. COAXIAL digital audio out Jack (DVD Audio Only) [pages 11, 12]
Connect to the digital input of an external amplifier or decoder.

39. ANT(ENNA). Jack
Connect to an antenna, cable system or satellite system.

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.
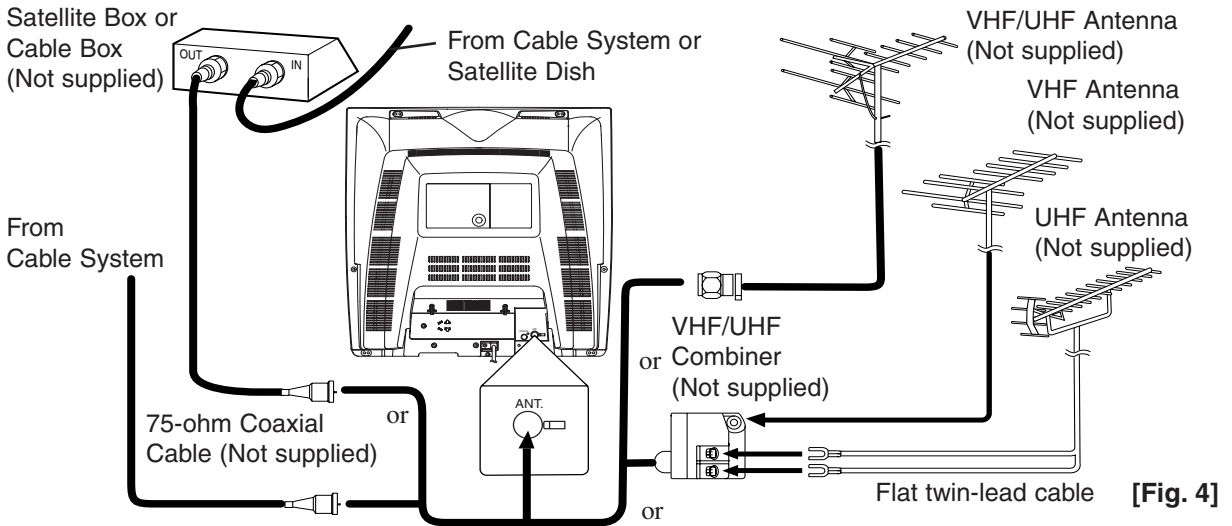
3) Replace the cover.

NOTES:
● Do not mix alkaline and manganese batteries.
● Do not mix old and new batteries.

PREPARATION FOR USE

ANTENNA/CABLE CONNECTIONS

Satellite Box or
Cable Box
(Not supplied)

From Cable System or
Satellite Dish

VHF/UHF Antenna
(Not supplied)

VHF Antenna
(Not supplied)

UHF Antenna
(Not supplied)

From
Cable System

VHF/UHF
or Combiner
(Not supplied)

ANT.

75-ohm Coaxial
Cable (Not supplied)

or

Flat twin-lead cable   **[Fig. 4]**

or

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.

Bent pin

Cable   Plug

(Needs to be straightened) **(Straight pin)**
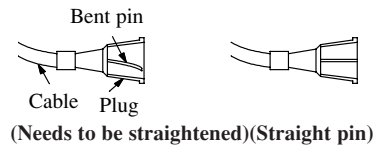
VHF/UHF COMBINED ANTENNA

A VHF UHF 75 ohm combination antenna can be connected to ANT. jack.

VHF/UHF SEPARATE ANTENNAS

In some areas it will be necessary to use an outdoor antenna.

CABLE WITHOUT CONVERTER/ DESCRAMBLER BOX

Use this connection if your cable system connects directly to your unit without a converter box. Use the TV/ DVD Remote Control to select channels.

CABLE WITH CONVERTER/DESCRAM-BLER BOX OR SATELLITE BOX

If your cable service supplies you with a converter box or if you use a satellite system, you can use the basic connection shown here.

Channel selection must be made with the converter box or satellite box. This means that channels cannot be changed using the TV/ DVD Remote Control.

TO VIEW A SCRAMBLED/UNSCRAMBLED CHANNEL

1. Set the unit channel selector to the output channel of the Cable Converter Box or Satellite Box. (Ex. CH3)
2. Select the channel to view on your Cable Converter Box or Satellite Box.

NOTE:

• **For your safety and to avoid damages to the unit, unplug the antenna cable from the ANT. jack before moving the unit.**
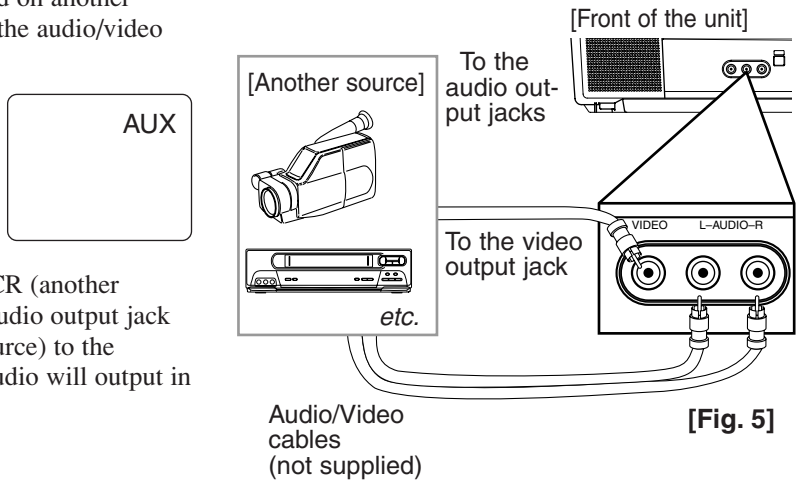
CONNECTING TO EXTERNAL INPUT JACKS

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 hit [SELECT] until "AUX" appears on the screen.**
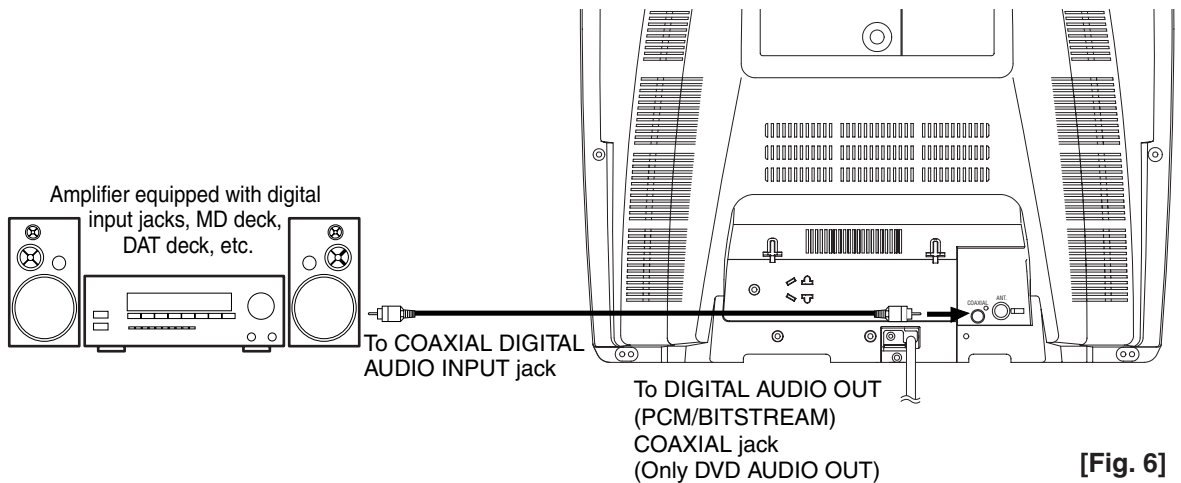
AUX

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.

[Front of the unit]

[Another source]

To the audio output jacks

To the video output jack

VIDEO   L–AUDIO–R

Audio/Video cables (not supplied)

etc.

[Fig. 5]

CONNECTING TO AN AMPLIFIER EQUIPPED WITH DIGITAL INPUT JACKS, MD DECK OR DAT DECK (for DVD only)

Use an audio coaxial digital cable available at retail for the audio connections.

Amplifier equipped with digital input jacks, MD deck, DAT deck, etc.

To COAXIAL DIGITAL AUDIO INPUT jack

To DIGITAL AUDIO OUT (PCM/BITSTREAM) COAXIAL jack (Only DVD AUDIO OUT)

[Fig. 6]

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 OFF for audio output in the setup mode. Playing a unit using incorrect settings may generate noise distortion and may also damage the speakers. (See page 28 to set DOLBY DIGITAL to OFF.)

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 COAXIAL digital audio out 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 audio coaxial digital cables available at retail for the audio connections.
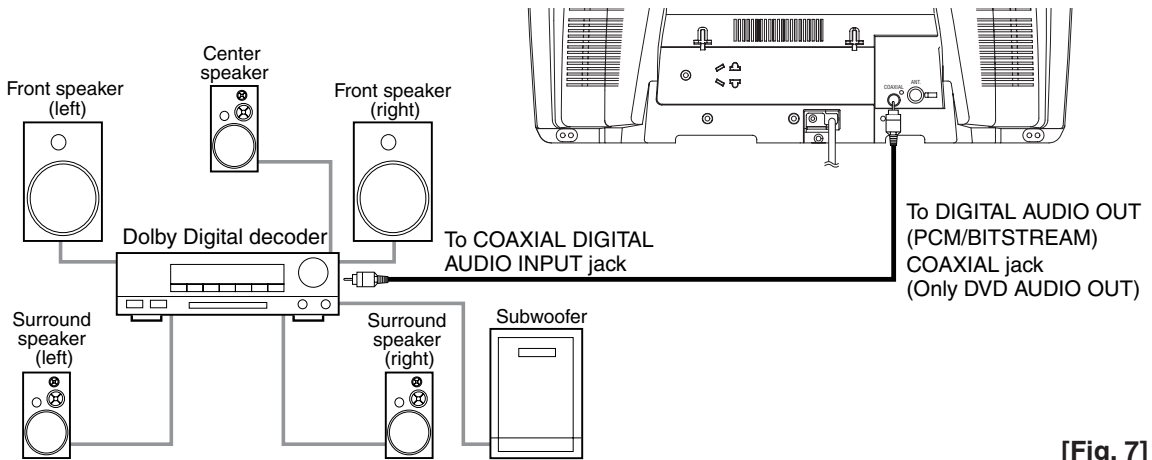
[Fig. 7]

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 ON for audio output in the setup mode. (See page 28 to set DOLBY DIGITAL to ON.)
- Unless connected to a Dolby Digital decoder, set DOLBY DIGITAL to OFF for audio output in the setup mode. Playing a unit using incorrect settings may generate noise distortion and may also damage the speakers.

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

SET UP FOR USE

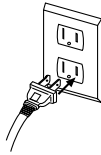## SELECTING THE LANGUAGE

TV

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, hit **[POWER]** without
unplugging the power cord.

Make sure ...
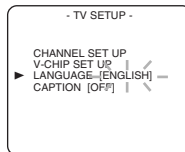
• Hit **[POWER]** to turn on the unit.
NOTE:

• This function effects only the language on the
screen menu and not the audio source.

2 **Select "LANGUAGE"**

Hit **[SETUP]** on the remote control.
Press **[▲/▼]** to point to "LAN-
GUAGE".

```
- TV SETUP -

 CHANNEL SET UP
 V-CHIP SET UP
► LANGUAGE [ENGLISH]
 CAPTION [OFF]
```

3 **Select "ENGLISH", "ESPAÑOL" or "FRANÇAIS"**

Select "ENGLISH", "ESPAÑOL"= Spanish or
"FRANÇAIS"= French using **[ENTER]**.

4 **Exit the Language mode**

Hit **[SETUP]** to return to TV mode.

NOTE: If for some reason the menu is in Spanish or
French, press **[▲/▼]** to point to "IDIOMA
[ESPAÑOL]" or "LANGAGE [FRANÇAIS]", then
hit **[ENTER]**, then hit **[SETUP]** on the remote con-
trol.

CHANNEL SET UP

TV

You can program the tuner to scan all the channels
you receive in your area.

NOTE: Channel memory programming is NOT
needed when connected to a cable box or satellite
box. Just select the unit channel selector to the output
channel of the cable box or satellite box (Ex CH3),
then select the channel to be viewed on the Cable
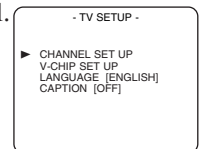Box or Satellite Box.

Make sure ...

• Hit **[POWER]** to turn on the unit.

1 **Select "CHANNEL SET UP"**

Hit **[SETUP]** on the remote control.
Press **[▲/▼]** to point to "CHAN-
NEL SET UP".
Then hit **[ENTER]**.

```
- TV SETUP -

► CHANNEL SET UP
 V-CHIP SET UP
 LANGUAGE [ENGLISH]
 CAPTION [OFF]
```
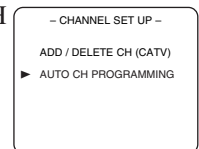
2 **Begin auto ch programming**

Press **[▲/▼]** to point to "AUTO CH
PROGRAMMING".
Then hit **[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.

• When AUTO CH PROGRAM-
MING is activated where there is
no TV signal input, "NO TV
SIGNALS" will appear on the
display after the completion of
the channel scanning.

```
NO TV SIGNALS
```

• The unit may recognize CATV channels to be TV
channels by the receiving conditions. In this case,
try auto ch programming again in the fine receiv-
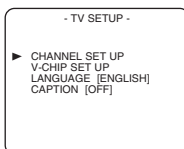ing conditions.

DELETING (OR ADDING) CHANNEL(S)

TV

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.)
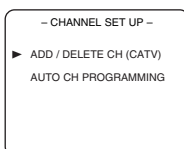
1 **Select "CHANNEL SET UP"**

Hit **[SETUP]** on the remote control.
Press **[▲/▼]** to point to "CHAN-
NEL SET UP".
Then hit **[ENTER]**.

```
- TV SETUP -

►  CHANNEL SET UP
    V-CHIP SET UP
    LANGUAGE  [ENGLISH]
    CAPTION  [OFF]
```

2 **Select "ADD/DELETE CH"**

Press **[▲/▼]** to point to
"ADD/DELETE CH".
Hit **[ENTER]**.

```
– CHANNEL SET UP –

►  ADD / DELETE CH (CATV)

    AUTO CH PROGRAMMING
```

3 **Enter the desired channel number**

Press **[▲/▼]** until your desired
channel number appears. (You can
also press **the number buttons** or
[CH. ▲/▼] to enter it)
(Example: CH8)
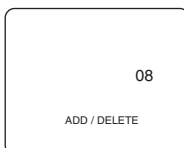
```
        08

    ADD / DELETE
```

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

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

Hit **[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 hit **[ENTER]** again, the channel is memo-
  rized again.

Added channel: Light blue
Deleted channel: Light red

5 **Exit the channel setup mode**

Hit **[SETUP]** to return to TV mode.
NOTE: To confirm that channel(s) has been deleted
or added, press **[CH. ▲/▼]**.

WATCHING A TV PROGRAM

TV

1 **Turn on the unit**

Hit **[POWER]** to turn on the unit.

2 **Select the channel number**

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

**Notes for using the number buttons on the remote control:**

• You must precede single-digit channel numbers with a zero (Example: 02 ... 09).

• When selecting cable channels which are higher than 99, hit +100 first, then press the last two digits. (Example: to select channel 125, first hit +100, then press 2 and 5).

Remember:

• 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 viewed must be selected on the cable box or satellite box.

3 **Adjust sound**

Press **[VOL. △/▽]** to adjust the volume.

VOLUME 20
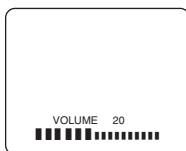
NOTE:

• If you press **[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 mode.

DEGAUSSING

Magnetism from nearby appliances and speakers might affect the color of the TV picture.

If this happens, move this unit away from the appliance. **If the color is still not correct, disconnect power cord from AC outlet then reconnect it after 30 minutes.**

PICTURE CONTROL

TV

The unit's picture controls – **BRIGHT, CON-TRAST, 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 ...

• unit power must be turned on.

1 **Select "PICTURE CONTROL"**

Hit **[PICTURE]** on the remote control.

2 **Select item you want to adjust**

Press **[▲/▼]** until desired control is displayed.

    BRIGHT
    CONTRAST
    COLOR
    TINT
    SHARPNESS

BRIGHT
–□□□□□□□■□□□□□□□+

3 **Adjust the picture control**

Press **[◄ / ►]** to adjust to your desired level within 5 seconds.

NOTE:

• At step *3*, the picture adjustment display will disappear from the TV screen after about 5 seconds unless you press any buttons, even though you may not be finished. In this case, repeat from step *1*.

	◄	►
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

• **If there is a power failure of any kind, the unit will retain its memory for this feature.**
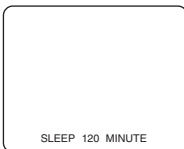
SLEEP TIMER

TV

The Sleep Timer function enables you to shut off the power without hitting **[POWER]** after a desired time period.

1 **Set "SLEEP TIMER"**

Hit **[SLEEP]** on the remote control. You may change the sleep time with hitting **[SLEEP]** repeatedly. The timer is set up to 120 minutes, 30 minutes each time SLEEP is pressed.

SLEEP 120 MINUTE

To cancel the sleep timer:
Hit **[SLEEP]** repeatedly until "SLEEP 0 MINUTE" is displayed.

NOTES:
- When you disconnect the unit from the AC outlet, or if you have a power failure, the sleep time will be lost.
- To view the time left for sleep timer, hit **[SLEEP]** once when SLEEP display disappears. After 10 seconds, display will disappear again.

CLOSED CAPTION SYSTEM

TV

You can view specially labeled (cc) TV programs, movies, news, etc. with either a dialogue caption or text display.

CAPTION mode: By choosing the caption mode, you can watch dramas, movies and news while captioning the dialogues and the contents of news.

TEXT mode: By choosing the 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 used, usually for a second language if available.

NOTE:
Not all programs are broadcast with closed captions. Your television 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 captions 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.

NOTE:
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].
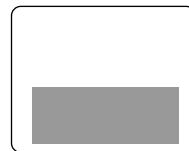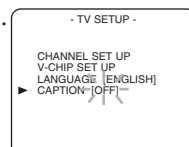
Make sure ...
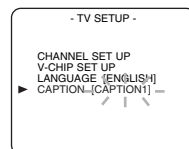- unit power must be turned on.

1 **Select "CAPTION"**

Hit **[SETUP]** on the remote control. Press **[▲/ ▼]** to point to "CAPTION".

- TV SETUP -

CHANNEL SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
► CAPTION [OFF]

2 **Select your desired caption menu**

Hit **[ENTER]** until your desired caption menu appears.
([CAPTION1], [CAPTION2], [TEXT1] or [TEXT2])

- TV SETUP -

CHANNEL SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
► CAPTION [CAPTION1]

3 **Exit the caption setting mode**

Hit **[SETUP]** to return to TV mode.
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*, select [OFF] using ENTER. Hit **[SETUP]** on the remote control to return to TV mode.

V-CHIP SET UP

TV

V-CHIP enables parents to prevent their children from watching inappropriate material on TV.

V-CHIP reads the ratings for programming (except for news and sports programs, unedited movies on premium cable channels and Emergency Broadcast System signals), then denies access to programming if the program's rating meets the limitations you select. In this case, "PROTECTED PROGRAM by ..." message appears on the TV screen.

To block ratings, follow the steps below.

• Programming may be rated by the Motion Picture Association of America (MPAA) or according to the Television Parental Guidelines. In order to block any inappropriate programming, set your limits in both places (MPAA RATING and TV RATING).
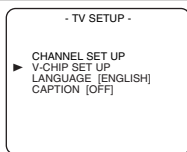
V-CHIP SET UP

Make sure ...
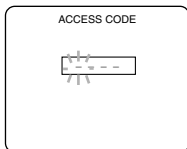• The unit must be turned on.

1 **Select "V-CHIP SET UP"**

Hit **[SETUP]**.
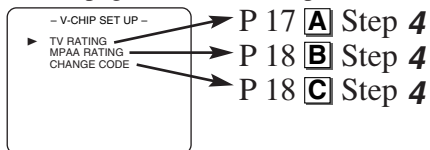Press **[▲ / ▼]** to select "V-CHIP SET UP", then hit **[ENTER]**.

```
- TV SETUP -

   CHANNEL SET UP
 ► V-CHIP SET UP
   LANGUAGE [ENGLISH]
   CAPTION [OFF]
```

2 **Enter Access code**

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

```
ACCESS CODE

[ - - - - ]
```

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

3 **Select the desired item**

Press **[▲ / ▼]** to select "TV RATING", "MPAA RATING" or "CHANGE CODE", then hit **[ENTER]**. Refer to the pages below to set up each item.
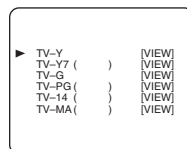
```
 – V-CHIP SET UP –           ──► P 17 A  Step 4
 ► TV RATING   ──────────┘
   MPAA RATING ──────────────► P 18 B  Step 4
   CHANGE CODE ──────────────► P 18 C  Step 4
```

A *TV RATING SET UP*

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

4 **Blocking TV programs**
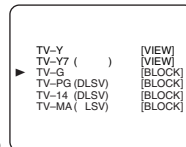
Press **[▲ / ▼]** to select a rating that you wish to block.
Hit **[ENTER]** repeatedly to set it to [BLOCK] or [VIEW].

```
 ► 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

NOTE:

• 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.

```
   TV–Y              [VIEW]
   TV–Y7 (    )      [VIEW]
 ► TV–G              [BLOCK]
   TV–PG (DLSV)      [BLOCK]
   TV–14 (DLSV)      [BLOCK]
   TV–MA ( LSV)      [BLOCK]
```

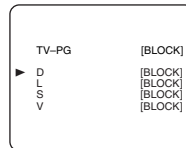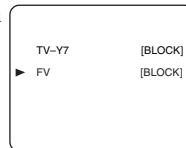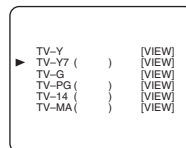• When you set the lowest rating to [VIEW], all other ratings will automatically be available for viewing.

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.

```
   TV–Y              [VIEW]
 ► TV–Y7 (    )      [VIEW]
   TV–G              [VIEW]
   TV–PG (    )      [VIEW]
   TV–14 (    )      [VIEW]
   TV–MA (    )      [VIEW]
```

Press **[▲ / ▼]** to select a rating with sub-ratings you wish to block, then hit **[ENTER]** twice.
Press **[▲ / ▼]** to select a sub-rating, then hit **[ENTER]** to set it to [BLOCK] or [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              [VIEW]
 ► TV–PG (DLSV)      [BLOCK]
   TV–14 (DLSV)      [BLOCK]
   TV–MA ( LSV)      [BLOCK]
```

6 **Exit the V-Chip setting mode**

Hit **[SETUP]** to exit the menu.
NOTE:

```
   PROTECTED PROGRAM
        by TV-Y
```
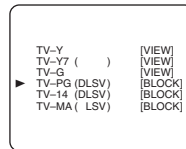
• To change the rating, the TV must be turned to an unprotected program. If "PROTECTED PROGRAM by ..." appears on the screen, please change the channel to a station that is not protected.
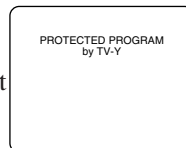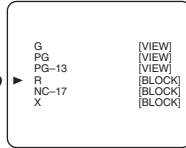
B *MPAA RATING SET UP*

Follow steps **1** to **3** in the "V-CHIP SET UP" section on page 17.

4 **Select your desired item**

Press [▲ / ▼] to point to your desired item, then hit **[ENTER]** to select [BLOCK] or [VIEW].

```
G                    [VIEW]
PG                   [VIEW]
PG–13                [VIEW]
▶ R                  [BLOCK]
NC–17                [BLOCK]
X                    [BLOCK]
```

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.

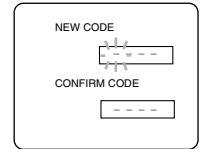**5** **Exit the V-Chip setting mode**

Hit **[SETUP]** to exit the menu.

C *CHANGE ACCESS CODE*

Follow steps **1** to **3** in the "V-CHIP SET UP" section on page 17.

4 **Enter New code**

Press **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".

```
NEW CODE

[ - - - - ]

CONFIRM CODE

[ - - - - ]
```

- 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**
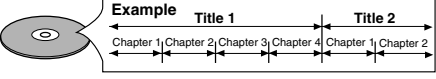
Hit **[SETUP]** to exit the menu.
NOTE:

- 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.

ABOUT THE DISCS

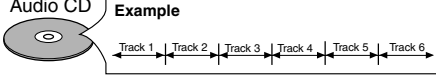## PLAYABLE DISCS

Playable discs	Mark (logo)	Region code	Recorded signals	Disc size	Disc types
DVD-Video * 1,2,3,10	**DVD** VIDEO **DVD** VIDEO	🌐 or 🌐	Digital video (MPEG2)	12 cm or 8cm	Example — Title 1 — Title 2 Chapter 1 Chapter 2 Chapter 3 Chapter 4 / Chapter 1 Chapter 2
DVD-RW DVD-R * 1,3,4,5,6 8,9	**DVD** RW **DVD** RW **DVD** R **DVD** R	-			
DVD+RW DVD+R * 1,3,4,5,7,8,9	RW DVD+ReWritable RW DVD+R	-			
Audio CD * 3,5	COMPACT DISC DIGITAL AUDIO	-	Digital audio	12 cm or 8cm	Audio CD Example Track 1 Track 2 Track 3 Track 4 Track 5 Track 6
CD-RW CD-R * 3,4,5,8,9	COMPACT DISC DIGITAL AUDIO ReWritable COMPACT DISC DIGITAL AUDIO Recordable COMPACT DISC ReWritable COMPACT DISC Recordable				

DVD 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: Scratched or stained discs may not be played back.

*4: Some discs cannot be played back because of incompatible recording conditions, characteristics of the recorder or special properties of discs.

*5: 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.

*6: 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.

*7: 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.).

*8: 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.

*9: Do not glue paper or put stickers on to the disc. These may damage the disc and the unit may not read it correctly.

*10: 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.

RW COMPATIBLE :This label indicates playback compatibility with DVD-RW discs recorded in VR mode (Video Recording Format)

NOTE:
• This player cannot play the DVD-RW that supports CPRM (Contents Protection for Recordable Media).
• This player cannot play the DVD-R discs recorded in VR mode (Video Recording Format).

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*

EN

PLAYING A DISC

BASIC PLAYBACK

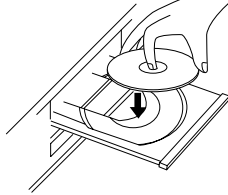| DVD-V	CD

Getting started

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

---

1   Hit [POWER].

● The power will turn on.

---

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

---

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

---

4   Hit [PLAY ▷].

● The tray will close automatically and playback will then start from the first chapter or track of the disc. If the playback does not start automatically, hit **[PLAY ▷]**.

● When you playback a DVD which features a title menu, it may appear on the screen. In this case, refer to "TITLE MENU".

---

5   Hit [STOP] to stop playback.

NOTES:

● When the DVD mode has been switched to the TV 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's power 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.
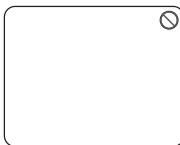
GENERAL FEATURES

DVD-V

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

NOTES:

● Select DVD mode by hitting **[SELECT]** on the remote control. Then hit **[PLAY ▷]** or **[OPEN/CLOSE ▲]** before you 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   Hit [DISC MENU] on the remote control.

● The DVD main menu will appear.

---

2   If the feature is not available, ⊘ symbol may appear on the TV screen.

---

3   If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.

---

4   Press [▲/▼/◀/▶] to select an item and hit [ENTER] to confirm selection.

TITLE MENU

DVD-V

1   Hit [TITLE] on the remote control.

● The title menu will appear.

---

2   If the feature is not available, ⊘ symbol may appear on the TV screen.

---

3   Press [▲/▼/◀/▶] to select an item and hit [ENTER] to confirm selection.

CALLING UP A MENU SCREEN DURING PLAYBACK

● Hit **[DISC MENU]** to call up the DVD menu.
● Hit **[TITLE]** to call up the title menu.

NOTE:

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

RESUME

| DVD-V | CD |

1 **During playback, hit [STOP ▪].**

● Resume message will appear on the TV screen.

2 **Hit [PLAY ▷], playback will resume from the point at which playback was stopped.**

● To cancel resume, hit **[STOP ▪]** twice.
● If unit is turned off, resume function will be cancelled.

PAUSE

| DVD-V | CD |

1 **During playback, hit [PAUSE ❙❙].**

● Playback will pause and sound will be muted.

2 **To continue playback, hit [PLAY ▷].**

STEP BY STEP PLAYBACK

| DVD-V |

1 **During playback, hit [PAUSE ❙❙].**

● Playback will pause and sound will be muted.

2 **The disc goes forward by one frame each time [PAUSE ❙❙] is pressed.**

3 **To exit step by step playback, hit [PLAY ▷].**

FAST FORWARD / FAST REVERSE

| DVD-V | CD |

1 **During playback, press [FWD ▶▶] or [REV ◀◀].**

● " ▶▶ 1" or "◀◀ 1" appears on the screen.

2 **To select another speed, repeat step *2* until your required speed 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 (×50) and 4 (×100).
● For Audio CDs, approximate speed is ×16.
● When you press buttons on the front panel, press and hold **[SEARCH ◀◀ / ▶▶]** for a few seconds.

3 **To return to normal playback, hit [PLAY ▷].**

SLOW FORWARD / SLOW REVERSE

| DVD-V |

1 **During playback, hit [PAUSE ❙❙].**

2 **Press [FWD ▶▶] or [REV ◀◀].**

● "❙▶ 1" or " ◀❙ 1" appears on the screen.

3 **To select another speed, repeat step *2* until your required speed 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 front panel, press and hold **[SEARCH ◀◀ / ▶▶]** for a few seconds.

4 **To return to normal playback, hit [PLAY ▷].**

SEARCH FUNCTION

TRACK SEARCH

CD

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

Using the number buttons on the remote control

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, hit **[3]**).
● To play track 26, hit **[+10]**, **[2]**, **[6]**.

Using SEARCH MODE

1 **Hit [SEARCH MODE].**
● The Track search display appears.

2 **Within 30 seconds, select a desired track number using the number buttons.**

● For single digits hit **[0]** first, if the total track of the disc is more than 10.
● Playback will start at the selected track.

Using SKIP |◄◄ / ►►|

During playback, hit **[SKIP ►►|]** to move the next track. Hit it repeatedly to skip subsequent tracks. Hit **[SKIP |◄◄]** to go back to beginning of the current track. Hit it repeatedly to go to the previous tracks.

● If **[SKIP |◄◄ / ►►|]** is pressed while the playback is paused, the playback will be paused again after skipping to the next track.
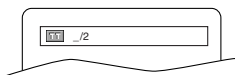
NOTE:
● **[SKIP |◄◄ / ►►|]** are not operative when playback is stopped.

TITLE / CHAPTER SEARCH

DVD-V

1 **Hit [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.
● Hit **[CLEAR]** to erase the incorrect input.
● For single digits hit **[0]** first, if the total chapter or title of the disc is more than 10.

TIME SEARCH

DVD-V **CD**

1 **During playback, hit [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.
● Hit **[CLEAR]** to erase the incorrect input.
● When there is no need to enter a number, "0" appears automatically. For example, " 0 : 0 ‒ : ‒ ‒" appears in the Time Search display if the total time of the 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 **Hit [SEARCH MODE] four times (CD: three times) during playback.**

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

2 **Press [◄/ ►] to select 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 and ensure that "‒ ‒ ‒ ‒ : ‒ ‒ : ‒ ‒" appears in the display.**

3 **When you reach the desired point, hit [ENTER].**

● The title or track and elapsed playing time will appear in the TV screen.

4 **To return to the Marker later, hit [SEARCH MODE] four times (CD: three times) during playback and [◄/►] to choose the desired marker, then hit [ENTER].**

NOTES:
● Opening the disc tray, turning off the power hitting **[SELECT]**, or selecting AC at step **2** and hitting **[ENTER]** will erase all Markers.
● To clear a marker, press **[◄/►]** to select a cursor on to the marker number to be cleared and hit **[CLEAR]**.
● You can mark up to 10 points.

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

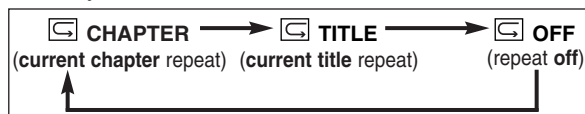# SPECIAL PLAYBACK FUNCTION

REPEAT

REPEAT is available only during playback.

REPEAT TITLE / CHAPTER

DVD-V

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

● The repeat mode changes as described below every time you hit the button.

CHAPTER → TITLE → OFF
(**current chapter** repeat) (**current title** repeat) (repeat **off**)

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, hit [REPEAT] during playback.

● The repeat mode changes as described below every time you hit the button.

TRACK → ALL → OFF
(**current track** repeat) (**entire disc** repeat) (repeat **off**)

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

REPEAT A-B

DVD-V   CD

1 Hit [REPEAT A-B] at your chosen starting point.
● " A-" appears briefly on the TV screen.

2 Hit [REPEAT A-B] again at your chosen end point.
● " A-B" appears briefly on the TV screen, and the repeat sequence begins.

3 To exit the sequence, hit [REPEAT A-B].
NOTES:
● The repeat A-B section can only be set within the current title (for DVDs) or current track (for Audio CDs).
● Repeat A-B is not available with some scenes in DVD.
● To cancel the A point which was set, hit **[CLEAR]**.
● Repeat A-B playback does not function during title, chapter, track or all repeat playback.
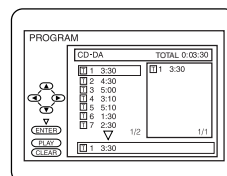
PROGRAM

CD

You may determine the order in which tracks will play.

1 In stop mode, hit [MODE].
● The PROGRAM screen will appear.

2 Press [▲ / ▼] to select a track, then hit [ENTER].
● Hit **[CLEAR]** to erase the most recently entered program.

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

4 Hit [PLAY ▷] to play the programmed tracks.
NOTES:
● While the program is being played back, the STOP works as follows.
● Hit **[STOP ■]** once and then **[PLAY ▷]** again, playback will restart from the point where STOP was pressed. (Program continued)
● Hit **[STOP ■]** twice and then **[PLAY ▷]** again, playback will restart from the track in the usual way. (Program canceled)
● Up to 99 programs 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, hit **[REPEAT]** repeatedly until " TRACK" appears during playback. If you like to repeat the entire program hit **[REPEAT]** repeatedly until " ALL" appears during playback.
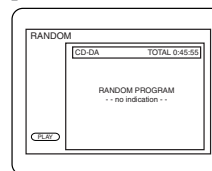
RANDOM PLAYBACK

CD

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

1 In stop mode, hit [MODE] twice.
● RANDOM screen appears.

2 Hit [PLAY ▷] to start random playback.
NOTE:
● If you like to repeat the current track in the random selection, hit **[REPEAT]** repeatedly until " TRACK" appears during playback. If you like to repeat the entire random selection hit **[REPEAT]** repeatedly until " ALL" appears during playback.
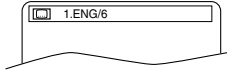
CHANGING THE SETTINGS

SUBTITLE LANGUAGE

DVD-V

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

1 **Hit [SUBTITLE] during playback.**
● The subtitle language will be displayed on the display bar at the top of the screen.

| 1.ENG/6 |

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

3 **To turn off subtitles, hit [SUBTITLE] repeatedly until OFF appears.**

NOTES:
● Hitting **[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 hitting **[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.

| NOT AVAILABLE |

● 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 27.)
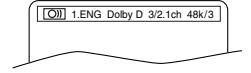
AUDIO LANGUAGE

DVD-V

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

1 **Hit [AUDIO] during playback.**

| 1.ENG Dolby D 3/2.1ch 48k/3 |

2 **Hit [AUDIO] repeatedly to select your desired language.**
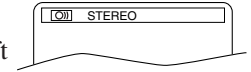
NOTE:
● Hitting **[AUDIO]** may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu).

STEREO SOUND MODE

CD

1 **Hit [AUDIO] repeatedly during playback to select between STEREO, L-CH or R-CH.**

| STEREO |

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

NOTE:
● If the Virtual Surround setting is ON, the sound mode will be fixed to STEREO, and can not be changed.
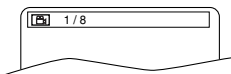
CAMERA ANGLE

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 **Hit [ANGLE] during playback.**

● If the "ANGLE ICON" setting is "OFF" in the DIS-PLAY SETTING menu, the

| 📹 1 / 8 |

(📹) icon will not appear. (Refer to page 28.)

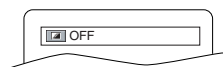*2* **Hit [ANGLE] repeatedly to select your desired angle.**
● The selected angle will be displayed on the display bar at the top of the screen.

BLACK LEVEL SETTING

DVD-V

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

1 **Hit [MODE] during playback.**

| 🔲 OFF |

2 **Hit [ENTER] to switch ON/OFF.**
ON: Makes the dark parts brighter.
OFF: Shows the original picture as recorded.

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

NOTE:
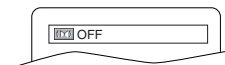● The setting will be saved even if the unit is turned off.

VIRTUAL SURROUND

DVD-V   **CD**

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

1 **Press [V.SURR] once or [MODE] twice (CD: once) during playback.**

| 🔲 OFF |

2 **Hit [ENTER] to set it 1 (Natural effect) or 2 (Emphasized effect) or OFF.**

3 **Press [V.SURR] or [MODE] to exit.**

You can also exit the menu by hitting [**RETURN**].

NOTE (for CD play only):
● Virtual Surround will not be effective if the sound mode is set to something other than STEREO.
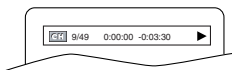
THE ON-SCREEN INFORMATION

| DVD-V | CD |

You can check the information about the current disc by hitting [**DISPLAY**].
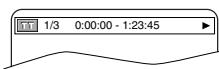
For DVD-Vs

1 Hit [DISPLAY] during playback to show current Chapter.

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

`CH  9/49    0:00:00  -0:03:30    ▶`

2 Hit [DISPLAY] again to show current Title.

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

`TT  1/3    0:00:00 - 1:23:45    ▶`

3 Hit [DISPLAY] again.

● The bit rate and the current repeat setting will be displayed.

`RT  ▮▮▮▮▮▮▮▮    ↻ T  L1    ▶`

● 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).
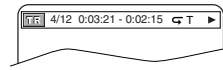
4 Hit [DISPLAY] again to exit.

For Audio CDs

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

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

`TR  4/12  0:03:21 - 0:02:15  ↻ T    ▶`

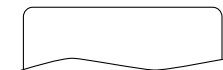**2** Hit [DISPLAY] again to show current Total Track.

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

`ABC  4/12  0:13:45 - 0:45:40  ↻ T    ▶`
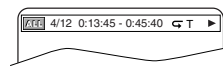
3 Hit [DISPLAY] again to exit.

NOTE:

● When you are playing a disc in PROGRAM or RANDOM mode, "TR PROGRAM (or RANDOM)" will be displayed at step **2**.

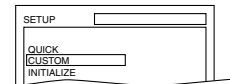`TR  PROGRAM`

CHANGING THE DVD SETUP ITEMS

CUSTOM MENU

DVD-V

You can change the DVD player's settings.

1 Hit [SETUP] twice in STOP mode so that the DVD SETUP menu appears.
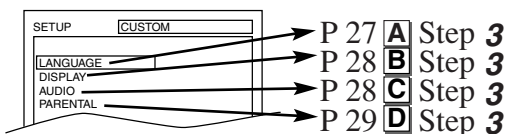
● Hit [▼] to select "CUSTOM"then hit [ENTER].

```
SETUP
  QUICK
  CUSTOM
  INITIALIZE
```

NOTE:
● If the menu does not appear, hit [PLAY ▷], [STOP ■]. Then slowly hit [SETUP] twice.

2 Select the desired item.

● Press [▲ / ▼] to select the desired item then hit [ENTER] to confirm.
Refer to the pages below to set up each item.

```
SETUP    CUSTOM
  LANGUAGE
  DISPLAY
  AUDIO
  PARENTAL
```
→ P 27 **A** Step **3**
→ P 28 **B** Step **3**
→ P 28 **C** Step **3**
→ P 29 **D** Step **3**

A *LANGUAGE SETTING*

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

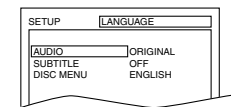**3** Press [▲ / ▼] to select the desired item then hit [ENTER].

AUDIO:
Sets the audio language.
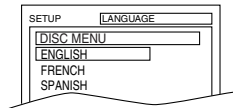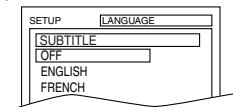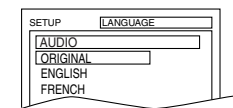SUBTITLE:
Sets the subtitle language.
DISC MENU:
Sets the language for DVD menu.

```
SETUP    LANGUAGE
  AUDIO       ORIGINAL
  SUBTITLE    OFF
  DISC MENU   ENGLISH
```

4 Press [▲ / ▼] to select a setting then hit [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.

```
SETUP    LANGUAGE
  AUDIO
  ORIGINAL
  ENGLISH
  FRENCH
```

```
SETUP    LANGUAGE
  SUBTITLE
  OFF
  ENGLISH
  FRENCH
```

```
SETUP    LANGUAGE
  DISC MENU
  ENGLISH
  FRENCH
  SPANISH
```

5 Hit [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 hitting [AUDIO] and [SUBTITLE]. (Refer to page 24.)
● If you select a language that is not supported by the disc, subtitle will automatically be set OFF, and 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	5350
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*

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

Follow steps **1** to **2** in the "CUSTOM MENU" section on page 27.

**3** Press [▲ / ▼] to select the below items then hit [ENTER].

TV MODE: QUICK

● Press **[▲ / ▼]** for an item selection, then hit **[ENTER]**.

```
SETUP        DISPLAY
TV MODE           4:3 LETTERBOX
STILL MODE        AUTO
ANGLE ICON        ON
AUTO POWER OFF    ON
```

● Select "4:3 LETTER BOX" for black bars to appear on top and bottom of the screen.
● Select "4:3 PAN & SCAN" for a full height picture with both sides trimmed.
● The default setting is "4:3 LETTER BOX".
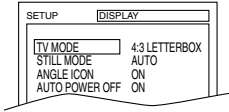
STILL MODE:

● Press **[▲ / ▼]** for an item selection, then hit **[ENTER]**.

```
SETUP        DISPLAY
TV MODE           4:3 LETTERBOX
STILL MODE        AUTO
ANGLE ICON        ON
AUTO POWER OFF    ON
```

● Select "AUTO" normally.
● If you select "FIELD", the picture in the still mode will be stabilized.
● If you select "FRAME", the picture in the still mode will be highly defined.
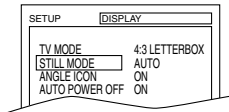
ANGLE ICON:

● Hit **[ENTER]** repeatedly to turn Angle icon "ON" or "OFF".
● The default setting is "ON".

AUTO POWER OFF:

● Hit **[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 Hit [SETUP] to exit the menu.

C *AUDIO SETTINGS*

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 27.

3 Press [▲ / ▼] to select the below items then hit [ENTER].

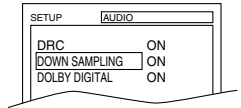### DRC (Dynamic Range Control):

● To compress the range of soft to loud sound.
● The default setting is "ON".

```
SETUP        AUDIO
DRC               ON
DOWN SAMPLING     ON
DOLBY DIGITAL     ON
```
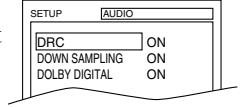
DOWN SAMPLING:

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

```
SETUP        AUDIO
DRC               ON
DOWN SAMPLING     ON
DOLBY DIGITAL     ON
```

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 "ON" when the unit is connected to a Dolby Digital Decoder.

```
SETUP        AUDIO
DRC               ON
DOWN SAMPLING     ON
DOLBY DIGITAL     ON
```

● ON: Output a Dolby Digital signal (default)
● OFF: Convert the Dolby Digital to PCM (2 channel stereo)
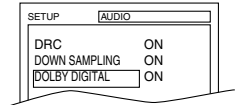
4 Hit [SETUP] to exit the menu.

TV SETUP MENU IN DVD MODE

● Language setting for on-screen menus is only available in TV SETUP menu. You can access it by hitting **[SETUP]** in DVD mode (Refer to "SELECTING THE LANGUAGE" on page 13).
● "CHANNEL SET UP" menu is not operative in DVD mode although it is displayed on the screen. Press **[SELECT]** to move to TV mode first, then follow steps in "CHANNEL SET UP" on page 13.

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.
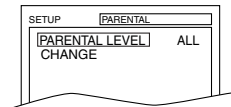
PARENTAL LEVEL

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.

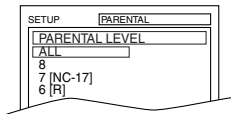Follow steps *1* to *2* in the "CUSTOM MENU" section on page 43.

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

```
SETUP      PARENTAL
PASSWORD
Enter current password.
  ■  □  □  □
```
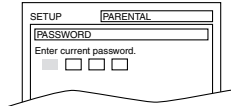
4 Press [▲ / ▼] to select "PARENTAL LEVEL" then hit [ENTER].

```
SETUP      PARENTAL
PARENTAL LEVEL    ALL
CHANGE
```

5 Press [▲ / ▼] to select the desired level then hit [ENTER].

```
SETUP      PARENTAL
PARENTAL LEVEL
ALL
8
7 [NC-17]
6 [R]
```

6 Hit [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.
- To change the password, press **[▲/▼]** to select "CHANGE" at step *4* then hit **[ENTER]**. Enter the four-digit password, then hit **[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 Hit 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".

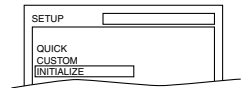**2** Proceed steps *4* to *6* again.

INITIALIZE

DVD-V

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

1 Hit [SETUP] twice in STOP mode so that the "INITIALIZE" menu appears.

2 Press [▲ / ▼] to select "INITIALIZE" then hit [ENTER].

```
SETUP
QUICK
CUSTOM
INITIALIZE
```

3 Select "YES" then hit [ENTER] twice.

All the settings (except for "PARENTAL" and **menu language**) will be cleared.
- To cancel the initialization, select "NO".

```
SETUP      INITIALIZE
Initialize?
NO
YES
```
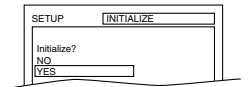
4 Hit [SETUP] to exit the menu.

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.
No operation by infrared remote control	• Check if the power plug is connected to an AC outlet. • Check the batteries in the remote control. • Aim the remote control directly at the remote sensor. If necessary, remove all the obstacles between the sensor and the remote. • You have to be within 23 feet of the unit. • Check if the correct mode is selected. If not switch the mode by hitting [**SELECT**] on the remote control,whichever you need.

TV Mode

Problem	Corrective Action
No Picture or Sound	• Try a new channel, if OK, then possible station trouble. • Make sure the power is turned on. • Hit [**SELECT**] on the remote control to select TV mode. Then try other TV feature. • Is antenna connected to terminal on the back of the set? • If outside antenna is being used, check for broken wire.
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 terminal 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 terminal 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 terminal on the back of the set? • If outside antenna is being used, check for broken wire. • Adjust CONTRAST & BRIGHT control.
Sound OK, Picture Poor	• Try a new channel, if OK, then possible station trouble. • Is antenna connected to terminal 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.
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 unit power cord, then plug it in again 30 minutes or so later. This automatically resets the unit.

Closed Caption Problem	Possible Remedy
The unit is showing captions that are misspelled.	• You are watching a live broadcast and spelling errors made by the closed captioning production company may pass through uncorrected. A prerecorded program will not show any misspelled words because of the normal time available for editing the captions.
The unit will not show the text in its entirety or there is a delay of what is being said.	• Captions that are delayed a few seconds behind the actual dialogue are common for live broadcast. Most captioning production companies can display a dialogue to a maximum of 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.
The captions are scrambled with white boxes on the TV screen.	• Interference caused by building, power lines, thunderstorms, etc. may cause scrambled or incomplete captions to appear.
The program guide listed a TV show as being closed captioned but none of the captions were displayed.	• Broadcasters may at times use a time compression process to the actual program so that additional advertising time can be given. Since the decoder cannot read the compressed information, captions will be lost.
The unit screen shows a black box on certain channels.	• You are in the TEXT mode. Select CAPTION mode or CAPTION [OFF].

DVD Mode

Problem	Corrective Action
No picture	• Insert a correct video disc that plays on this unit. • Hit [SELECT] on the remote control to select DVD mode. Next, hit [PLAY ▷] or [OPEN/CLOSE ▲]. 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.

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 at 1-800-256-2487, to locate an Authorized Service Center.

## *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.

DISC HANDLING

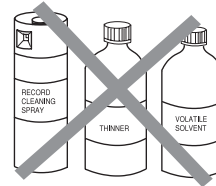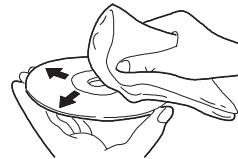- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
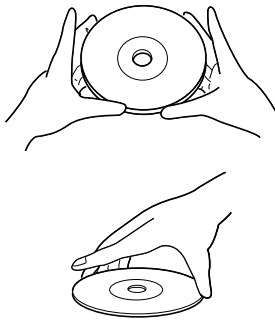
- Always store the disc in its protective case when it is not used.
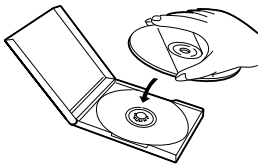
- To clean-off, use a soft cloth.
- Do not use a hard cloth since this will mar the disc.
- Wipe the disc in a straight line from center to edge.
- Never wipe with a circular motion.
- Do not use detergent or abrasive cleaning agents.

SPECIFICATIONS

GENERAL SPECIFICATIONS

TV

CRT :	20 inch in-line gun, 90° deflection tube
Television system:	NTSC-M TV Standard
Closed caption system:	§15.119/FCC
Channel coverage:	
VHF:	2 ~ 13
UHF:	14 ~ 69
CATV:	2 ~13, A ~ W, W+1 ~ W+84, A-5 ~ A-1, 5A
Tuning System:	181 channel frequency synthesized tuning system
Channel access:	Direct access keyboard, programmable scan and up/down

DVD

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 (3.5 mm)
Coaxial digital audio output (only DVD):	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) :	80W
Dimensions :	H:20-3/16" (514mm) W:20-3/16" (512mm) D:19-13/16" (503mm)
Weight :	46.3lbs (21.0kg)

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

INDICE

CONTROLES DE OPERACIÓN Y FUNCIONES

PANEL FRONTAL DE LA UNIDAD

Consulte la figura 1 de la página 8

MANDO A DISTANCIA

Consulte la figura 2 de la página 8

VISTA POSTERIOR

Consulte la figura 3 de la página 9

1. Bandeja de carga del disco

2. Toma de entrada VIDEO
Conecte aquí la toma de salida de vídeo de una videocámara o de una videograbadora.

3. Tomas de entrada AUDIO L/R
Conecte aquí las tomas de salida de audio de una videocámara o de una videograbadora.

4. Botón POWER
Presione para conectar y desconectar la alimentación.

5. Botones VOLUME ▲/▼ (VOL.△/▽)
Presione para controlar el nivel del volumen para el DVD y el televisor.

6. Botones CHANNEL ▲/▼ (CH. ▲/▼)
Presione para seleccionar el canal memorizado.
Presione para cambiar a un modo de televisor cuando esta en el modo de DVD.

7. Ventanilla del sensor del mando a distancia

8. Botón STOP ■
Detiene la operación del disco.

9. Botón SKIP |◄◄
Reproduce desde el inicio del capítulo o canción actual.
Botón SEARCH (REV) ◄◄ (panel frontal)
Durante la reproducción o en el modo de pausa, mantenga presionado el botón durante unos segundos para cambiar la velocidad de reproducción hacia atrás.

10. Botón PLAY ▷
Inicia la reproducción del contenido del disco.
Presione para cambiar a un modo de DVD cuando esta en el modo de televisor.

11. Botón SKIP ►►|
Reproduce desde el inicio del siguiente capítulo o canción.
Botón SEARCH ►► (panel frontal)
Durante la reproducción o en el modo de pausa, mantenga presionado el botón durante unos segundos para cambiar la velocidad de reproducción en avance.

12. Botón PAUSE ❚❚
Hace una pausa en la operación del disco.

13. Botón OPEN/CLOSE ▲
Presione para insertar un disco en la bandeja o retirarlo de ella.

14. Toma HEADPHONE
Para conectar auriculares (no suministrados) y escuchar en privado.

15. Botón MODE
Activa el modo de reproducción programada o el modo de reproducción aleatoria cuand se reproducen CDs.

16. Botones de números
Modo del televisor:
Presione dos dígitos para tener acceso directamente al canal deseado.
Recuerde presionar **[0]** antes de elegir un canal de un solo dígito.
Botón +100
Presione para seleccionar canales de televisión por cable cuyo número sea superiors a 99.
Modo DVD:
Presione para introducir el número deseado.
Botón +10
Presione para introducir números superiores a 9.

17. Botón SLEEP
Presione para visualizar el temporizador para dormir y activar la función. La hora de apagado puede determinarse por el número de veces que usted pulsa el botón. (0, 30, 60, 90 o 120 minutos)

18. Botón REV ◄◄
Presione para volver rápidamente en el disco.
Presione **[PAUSE ❚❚]** y presione este botón para empezar la reproducción en cámara lenta. Presione repetidamente este botón para cambiar la velocidad en avance de la cámara lenta.
Botón FWD ►►
Presione para avanzar rápidamente en el disco.
Presione **[PAUSE ❚❚]** y presione este botón para empezar la reproducción en cámara lenta. Presione repetidamente este botón para cambiar la velocidad de avance de la cámara lenta.

19. Botón V.SURR (envolvente virtual)
Presione para activar/desactivar el envolvente virtual.

20. Botón SETUP
Presione para entrar o salir del menú de configuración de televisor o DVD.

21. Botón TITLE
Visualiza el menú de títulos.

22. Botón CLEAR
Repone un ajuste.

23. Botón DISPLAY
Modo del televisor:
Presione para visualizar el número del canal en la pantalla. Si lo presiona de nuevo, el número del canal desaparecerá.
Modo de DVD:
Visualiza el estado actual en la pantalla del televisor.

24. Botón SEARCH MODE
Presione para localizar un punto deseado.

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

26. Botón SUBTITLE
Presione para seleccionar un idioma de subtítulos deseado.

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

28. Botón ANGLE
Presione para cambiar el ángulo de la cámara y ver, desde un ángulo diferente, la secuencia que está siendo reproducida (si existe).

29. Botón A-B REPEAT
Repite la reproducción de una sección seleccionada.

30. Botón RETURN
Permite volver a la pantalla anterior en el modo de configuración.

31. Botón ENTER
Presione para establecer un ajuste.

32. Botones ▲ / ▼ / ◄ / ►
Modo de televisor:
Presione para seleccionar un modo de ajuste desde el menú que aparece en la pantalla del televisor. Presione para seleccionar o ajustar desde un menú particular.
Modo de DVD:
Presione para seleccionar un ítem de menú.

33. Botón DISC MENÚ
Muestra menú del DVD.

34. Botón SELECT
Presione para cambiar a un modo de televisor, modo de entrada externa o modo de DVD.

NOTA: Cuando seleccione el modo DVD con este botón, Presione primero **[PLAY ▷]** u **[OPEN/CLOSE ▲]**. De lo contrario, las funciones del DVD no se activarán.

35. Botón MUTE
Presione para apagar el sonido de un programa de TV. (La visualización del nivel del sonido cambia de ROJO CLARO a AZUL CLARO.) Presione de nuevo este botón o **[VOL △ / ▽]** para restaurar el sonido.

36. Botón PICTURE
Presione para entrar en el modo de ajuste de imagen.

37. Cable de alimentación
Conéctelo a una toma de CA convencional (120 V/60 Hz).
NOTA: Retire el cable de alimentación del gancho para evitar romperlo antes de conectarlo a una toma de CA convencional.

38. Toma de salida de audio digital COAXIAL (audio de DVD solamente)
Conecte a la entrada digital de un amplificador o decodificador externo.

39. Toma de entrada ANT.
Conecte a una antena, sistema de televisión por cable o sistema de satélite.

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.

NOTAS:
• No mezcle pilas alcalinas y de manganeso.
• No mezcle pilas viejas y nuevas.

PREPARACIÓN PARA LA UTILIZACIÓN

CONEXIONES DE ANTENA/CABLE

Consulte la figura 4 de la página 10

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 del NEC, el cual proporciona consejos para hacer una conexión a tierra apropiada y, en particular, especifica que la tierra del cable deberá estar conectada 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.

Clavija doblada

Cable   Clavija
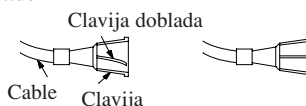
(Necesita enderezarse) (Clavija derecha)

ANTENA COMBINADA DE VHF/UHF
La antena combinada de VHF/UHF de 75 ohmios puede conectarse al terminal ANT.

ANTENA SEPARADAS DE VHF/UHF
En algunas zonas será necesario utilizar una antena exterior.

TELEVISION POR CABLE SIN CAJA DE CONVERTIDOR / DECODIFICADOR
Utilice esta conexión si su sistema de televisión por cable se conecta directamente a su televisor/DVD sin una caja de convertidor. Utilice el mando a distancia de la unidad para seleccionar los canales.

TELEVISION POR CABLE CON CAJA DE CONVERTIDOR/DECODIFICADOR O CAJA DE SATÉLITE
Si su empresa de televisión por cable le suministra una caja de convertidor, o si usted utiliza un sistema de satélite, podrá utilizar la conexión básica mostrada aquí.
La selección de los canales deberá hacerse con la caja de convertidor o con la caja de satélite. Esto significa que los canales no se podrán cambiar utilizando el mando a distancia de la unidad.

PARA VER UN CANAL CODIFICADO/DECODIFICADO
1) Ponga el selector de canales de la unidad en la posición del canal de salida de la caja de convertidor de televisión por cable o de la caja de satélite. (Ej., CH3)
2) Seleccione el canal que va a ver en su caja de convertidor de televisión por cable o caja de satélite.

NOTA:
• **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 EXTERNA

Cuando vea un programa grabado en otra fuente (videograbadora o videocámara), utilice las tomas de entrada de audio/vídeo 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] hasta que aparezca "AUX" en la pantalla.**

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

Consulte la figura 5 de la página 11

CONEXIÓN A UN AMPLIFICADOR EQUIPADO CON TOMAS DE ENTRADA DIGITAL, PLATINA MD O PLATINA DAT (Para DVD)

Utilice un cable digital coaxial de audio de venta en el comercio especializado para hacer las conexiones de audio.

Consulte la figura 6 de la página 11

NOTAS:
• La fuente de audio de un disco en un 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 desconectar la alimentación de todos los componentes antes de conectar otro componente.
• Consulte los manuales del propietario de los componentes que va a conectar a la unidad.
• Ponga DOLBY DIGITAL en OFF para la salida de audio en el modo de preparación. La reproducción en una unidad utilizando ajustes incorrectos puede provocar distorsión por ruido, y también se pueden dañar los altavoces.

CONEXCIONA UN DECODIFICADOR DOLBY DIGITAL (Para DVD)

Si utiliza esta unidad para reproducir un disco DVD en un formato de sonido envolvente Dolby Digital de 5,1 canales, la unidad dará salida a un flujo de datos DOLBY DIGITAL desde su toma de salida de audio digital 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 especializado para hacer las conexiones de audio.

Consulte la figura 7 de la página 12

NOTAS:
- Asegúrese de desconectar la alimentación de todos los componentes del sistema antes de conectar a otro componente.
- Consulte los manuales del propietario de los componentes que vaya a conectar a la unidad.
- Si conecta un decodificador Dolby Digital, ponga DOLBY DIGITAL en ON para la salida de audio en el modo de preparación.
- A menos que se haga la conexión a un decodificador Dolby Digital, ponga DOLBY DIGITAL en OFF para la salida de audio en el modo de preparación. La reproducción en la unidad utilizando ajustes incorrectos puede generar distorsión de ruido, y también puede estropear los altavoces.

Fabricado bajo licencia de Dolby Laboratories. "Dolby" y el símbolo de la D doble son marcas de fábrica de Dolby Laboratories.

SECCIÓN DE TV

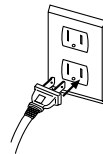# PREPARACIÓN PARA LA UTILIZACIÓN

SELECCIÓN DE IDIOMA

TV

1 **Enchufe el cable eléctrico de la unidad**

Enchufe el cable eléctrico de la unidad en una toma de CA estándar.

NOTA:
- Si aparecen algunas cifras en la esquina de la pantalla, presione **[POWER]** sin desenchufar el cable eléctrico.

Asegúrese de que ...
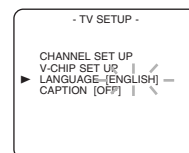- Presiona **[POWER]** para encender la unidad.

NOTA:
- Esta función afecta sólo el idioma en el menú de la pantalla y no la fuente de audio.

2 **Seleccione "LANGUAGE"**

Presione **[SETUP]** en el mando a distancia.
Presione **[▲ / ▼]** para señalar "LANGUAGE".

```
- TV SETUP -

CHANNEL SET UP
V-CHIP SET UP
► LANGUAGE [ENGLISH]
CAPTION [OFF]
```

3 **Seleccione "ENGLISH", "ESPAÑOL" o "FRANÇAIS"**

Seleccione "ENGLISH" = inglés, "ESPAÑOL" o "FRANÇAIS" = francés con **[ENTER]**.

4 **Salga del modo de idioma**

Presione **[SETUP]** en el mando a distancia para volver al modo del televisor.

NOTA: Si, por alguna razón, el menú está en francés, presione **[SETUP]** en el mando a distancia, presione **[▲ / ▼]** para señalar el "LANGAGE [FRANÇAIS]", a continuación, presione **[ENTER]** y presione **[SETUP]** en el mando a distancia.

AJUSTE DE CANAL

TV

Puede programar el sintonizador para buscar todos los canales que recibe en su localidad.

NOTA: El canal preparado NO es necesario cuando esté conectado a una caja de cable o caja de satélite. Sólo tiene que seleccionar con el selector de canal de la unidad al canal de salida de la caja de cable o caja de satélite (por ejemplo CA3). Seleccione el canal a ver en la caja de cable o caja de satélite.
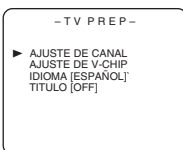
Asegúrese de que ...

• Presiona **[POWER]** para encender el la unidad.

1 **Seleccione "AJUSTE DE CANAL"**

Presione **[SETUP]** en el mando a distancia.

Presione **[▲ / ▼]** para señalar "AJUSTE DE CANAL".

A continuación, presione **[ENTER]**.

```
– T V P R E P –

► AJUSTE DE CANAL
  AJUSTE DE V-CHIP
  IDIOMA [ESPAÑOL]
  TITULO [OFF]
```

2 **Empiece el prefijado automático**

Presione **[▲ / ▼]** para señalar "AUTOPROGRAMACION DE CA".

A continuación, presione **[ENTER]**.

```
_ AJUSTE DE CANAL _

AGREGAR/BORRAR (CATV)

►AUTOPROGRAMACION DE CA.
```

El sintonizador busca y memoriza todos los canales activos en su localidad.
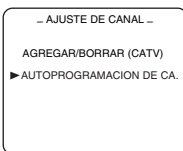
3 **Después de buscar**

El sintonizador se detiene en el canal memorizado más bajo.

• Cuando se activa AUTOPRO-GRAMACION DE CA, donde no hay entrada de señal del televisor, aparecerá "NO HAY SEÑAL DE TV" en la pantalla después de terminar la búsqueda de canales.

```
NO HAY SEÑAL DE TV
```

• La unidad puede reconocer los canales de TV de cable para que sean canales de TV de antena con las condiciones de recepción. En este caso, pruebe nuevamente con el prefijado automático en las condiciones de recepción fina.
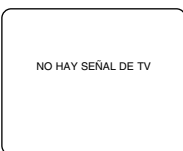
SECCIÓN DE DVD

REPRODUCCIÓN DE UN DISCO

REPRODUCCIÓN BÁSICA

DVD-V   **CD**

Para empezar

• Conecte el interruptor del amplificador y otros equipos, si fuera necesario.
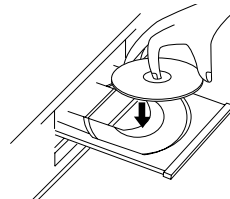
1 **Presione [POWER].**

• La alimentación se conectará.

2 **Presione [OPEN/CLOSE ▲].**

• La bandeja de carga del disco se abrirá.

3 **Ponga el disco en la bandeja con el lado de la etiqueta hacia arriba.**

4 **Presione [PLAY ▷].**

• La bandeja se cerrará automáticamente y la reproducción empezará después desde el primer capítulo o pista del disco. Si la reproducción no empieza automáticamente, presione **[PLAY ▷]**.

• Cuando reproduzca un DVD que tenga grabado un menú de títulos, el menú aparecerá en la pantalla.

5 **Presione [STOP] para detener la reproducción.**

⟨⚬⟩ *Emerson*.
LIMITED WARRANTY

FUNAI CORP. will repair this 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:

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

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SERVICE CENTER

19900 Van Ness Avenue, Torrance, CA 90501
Tel :1-800-256-2487
http://www.emersonaudiovideo.com

Head Office: 100 North Street, Teterboro, NJ 07608
PLEASE DO NOT SHIP YOUR UNIT TO THE TETERBORO ADDRESS.