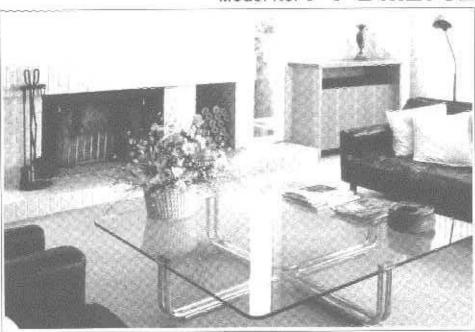


Panasonic

TV/DVD/VCR Combination Operating Instructions

Model No. PV-DM2792



Initial Setup and Connection Procedures are on pages 14 to 17.















As an ENERGY STAR* Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR* guidelines for energy efficiency.

Please read these instructions carefully before attempting to connect, operate, or adjust this product. Please save this manual. Spanish Quick Use Guide is included. (Quia para rápida consulta en español está incluida.)

LSOTO520A

Important Safeguards and Precautions

READ AND RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS, HEED ALL WARNINGS IN THE MANUAL AND ON UNIT

INSTALLATION

1 POWER SOURCE CAUTION

Operate only from power source indicated on unit or in this manual. If uncertain, have your Electric Utility Service Company or Video Products Dealer verify your home power source.

2 POWER CORD PLUG

For safety, this unit has a polarized type plug (one wide blade), or a three-wire grounding type plug. Always hold the plug firmly and make sure your hands are dry when plugging in or unplugging the AC power cord. Regularly remove dust, dirt, etc. on the plug.

POLARIZED PLUG CAUTION:

The plug fits into outlet one way. If it cannot be fully inserted, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not tamper with the plug.

GROUNDING PLUG CAUTION:

The plug requires a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not tamper with the plug.

3 POWER CORD

To avoid unit malfunction, and to protect against electrical shock, fire or personal injury:

- Keep power cord away from heating appliances and walking traffic. Do not rest heavy objects on, or roll such objects over the power cord.
- Do not tamper with the cord in any way.
- An extension cord should have the same type plug (polarized or grounding) and must be securely connected.
- Overloaded wall outlets or extension cords is a fire hazard.
- Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified electrician.

4 DO NOT BLOCK VENTILATION HOLES

Ventilation openings in the cabinet release heat generated during operation. If blocked, heat build-up may result in a fire hazard or heat damage to cassettes or discs.

For your protection:

- Never cover ventilation slots while unit is ON, or operate unit while placed on a bed, sofa, rug, or other soft surface.
- Avoid built-in installation, such as a book case or rack, unless properly ventilated.

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place unit over or near a heater or radiator, in direct sunlight, inside closed vehicles, in high temperature [over 95 F (35 C)], or in over 75% humidity. If unit is suddenly moved from a cold place to a warm one, moisture may condense in unit and on the tape causing damage. Never subject unit to vibration, impact, or place it so that the surface is tilted as internal parts may be seriously damaged.

6 TO AVOID PERSONAL INJURY

Never place unit on support or stand that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.

Move any appliance and cart combination with care.
 Quick stops, excessive force, and uneven surfaces may cause objects to overturn.
 Carefully follow all operating instructions.

OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION

An outside antenna or cable system must be properly grounded to provide some protection against built up static charges and voltage. Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information

provides information regarding 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. 2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

Locate an outside antenna system well away from power lines and electric light or power circuits so it will never touch these power sources should it ever fall. When installing antenna, absolutely never touch power lines, circuits or other power sources as this could be fatal.

USING THE UNIT

Before unit is brought out of storage or moved to a new location, refer again to the INSTALLATION section of these safeguards.

- 1 KEEP UNIT WELL AWAY FROM WATER OR
- MOISTURE, such as vases, sinks, tubs, etc.

 2 IF EXPOSED TO RAIN, MOISTURE, OR

 STRONG IMPACT, unplug unit and have it inspected
 by a qualified service technician before use.

3 ELECTRICAL STORMS

During a lightning storm, or before leaving unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

4 WHEN UNIT IS PLUGGED IN

- DO NOT OPERATE IF:
- liquid has spilled into unit.
- unit was dropped or otherwise damaged.
- unit emits smoke, malodors, or noises.
 Immediately unplug unit, and have it inspected by a service technician to avoid potential fire and shock hazards.
- Never drop or push any object through openings in unit.
 Touching internal parts may cause electric shock or fire hazard.
 Do not put any foreign object on the tray.
- Keep magnetic objects, such as speakers, away from unit to avoid electrical interference.

5 USING ACCESSORIES

Use only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards.

6 CLEANING UNIT

Unplug unit. Use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into unit and cause electrical shock. Any substance, such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

SERVICE

DO NOT SERVICE PRODUCT YOURSELF

If, after carefully following detailed operating instructions, the unit does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug unit and contact a qualified service technician.

2 REPLACEMENT OF PARTS

Make sure the service technician uses only parts specified by the manufacturer, or have equal safety characteristics as original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.

3 SAFETY CHECK AFTER SERVICING

After unit is serviced or repaired, request that a thorough safety check be done as described in the manufacturer's service literature to insure video unit is in safe operating condition.

Safety Precautions/Mesures de sécurité

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture. Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert,

Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas

exposer cet appareil à la pluie ou à une humidité excessive.

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.

FCC WARNING: Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

CAUTION:

UNIT IS A CLASS I LASER PRODUCT.

HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE UNIT CORRECTLY AS INSTRUCTED. WHEN THIS UNIT IS PLUGGED TO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT ATTEMPT TO REPAIR THE UNIT YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTION:

LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.

ATTENTION:

RAYONNEMENT LASER EN CAS D'OUVERTURE. **NE PAS REGARDER** DANS LE FAISCEAU.

(Inside of product)

FCC NOTICE:

This equipment has been tested and found to comply with part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when operated in a residential environment. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver. If necessary, consult the dealer or an experienced radio/TV technician for help. You may find the booklet, 'Something About Interference' available from FCC local regional offices helpful.

This product utilizes both a Cathode Ray Tube (CRT) and other components that contain lead. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: http://www.elae.org.>



OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO OUALIFIED SERVICE PERSONNEI



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

Region Management Information

Region Management Information: This unit is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this unit, this unit cannot play this disc.

The Region number for this unit is 1.

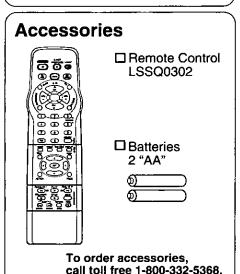


Before Using

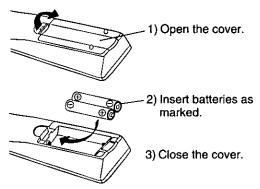
Congratulations

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information below. The serial number is on the tag located on the back of your unit.

Date of Purchase.		
Dealer Purchased From		
Dealer Address		
Dealer Phone No.		
Model No	PV-DM2792	
Serial No.		



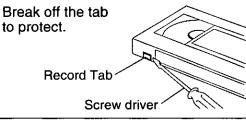
Loading the Batteries



☐ Battery replacement caution • Do not mix old and new batteries.

- Do not mix alkaline with manganese batteries.

Prevent Accidental Tape Erasure





Record/Playback Time

Only use tapes with the IVHSI mark in this unit.

Tape Speed	Type of Video Cassette			
Setting	T60	T120	T160	
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes	
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes	
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours	

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TV/VOR	Important Safeguards and Precautions / Safety Precautions Before Using Information (Unit, Cassette, Disc) Location of Controls Connections Initial Setup Reset Language, Channels, Clock, Time Zone Adjust	6 8 11 . 14,	4 - 7 - 10 - 13 - 15	Initial Setup
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				<u> </u>
TV Operati	TV Operation MTS Broadcast / TV Stereo System Closed Caption System TV Timer Features On-Screen Display (OSD) FM Radio	24,	23 25 26 27	TV Operation
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TV/VGR	Cable Box Universal Remote Control Feature Tape Operation Special VCR Features V-Chip Control Feature Audio Features Video / Audio Menu Video / Audio Adjustment Disc Operation MP3 Playback Operation DVD Operation using On-Screen Displays DVD Lock Feature	34 - . 38, 40 - . 44, 	37 39 43 45 46 47 51 52 55	Advanced Operation
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TV/VQR	Before Requesting Service Warning and Instruction Displays Spanish Quick Use Guide / Guía para rápida consulta Index Limited Warranty Customer Services Directory Settings for DVD Operation Language Code List	65 - 72, 	62 71 73 74 75 59	Your Information

Information (Unit, Cassette, Disc)

Head Cleaning

Playing older or damaged tapes may eventually cause video heads to become clogged.

Head Clog Sensor

During playback this screen appears if clogging is detected. To remove screen, press PLAY on the remote or unit.

VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL

END:PLAY

- Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape directions carefully. Excessive use of head cleaning tape can shorten the video head life.
- · If head clog symptoms persist, contact your nearest Factory Service Center.

DST (Daylight Saving Time)

Unit auto adjusts clock for DST (Daylight Saving Time.)

Spring (First Sunday in April)

DST : ON → Sets clock ahead one hour.

■ Autumn (Last Sunday in October)

DST: ON → Turns clock back one hour.

- . If your area does not observe Daylight Saving Time, select DST: OFF (see "Clock" on pages 16 and 17).
- . Keep these time changes in mind when programming the unit for timer recordings.

Features for a Quality Picture

Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control (to reduce picture noise) Use during Playback and Slow Motion mode to reduce picture noise. Press the 3 or 6 number key on the remote control or CH ▲▼ on the unit until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.

V-Lock Control

In Still mode, the 3 or 6 number key on the remote control or CH ▲▼ on the unit operate as a V-Lock control to reduce litter. PanaBlack™ Picture Tube

This unit uses a PanaBlack™ picture tube for better color reproduction and picture contrast.

Specifications

Display Picture Tube:

27 inch measured diagonal 100° deflection

Picture Tube

VCR

Video Recording System: 4 rotary heads helical

scanning system Audio Track: 1 track (Normal) 2 channel

(Hi-Fi Audio Sound)

Tuner

Broadcast Channels:

CABLE Channels:

Superband J through W (23 ~ 36) Hyperband AA ~ EEE (37 ~ 64) Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A (01)

FM Radio

Band range: General Power Source:

Power Consumption:

Television System:

Speaker: Operating Temperature: Operating Humidity:

Weight:

Dimensions:

Discs played (1) DVD-VIDEO disc VHF 2 ~ 13, UHF 14 ~ 69 Midband A through I (14 ~ 22)

Ultraband 65 ~ 94, 100 ~ 125

87.5 ~ 108.1 MHz

120V AC, 60 Hz Power On

Approx. 170 watts Power Off Approx. 3.5 watts

EIA Standard NTSC color 2 pieces 5°C~35°C(41°F~95°F)

10 % ~ 75% 42 kg (92.4 lbs.)

772 (W) x 654 (H) x 533 (D) mm 30-3/8" (W) x 25-3/4" (H)

x 21" (D)

5" (12 cm) single-sided, single-laver

5" (12 cm) single-sided, double-layer 5" (12 cm) double-sided,

double-laver (one layer per side) 3" (8 cm) single-sided, single-layer

3" (8 cm) single-sided, double-laver

3" (8 cm) double-sided, double-laver (one layer per side) 5" (12 cm) disc

(CD-DA, CD-RW, VIDEO CD) Digital audio output:

Optical digital output: Pickup:

(2) Compact disc

Optical connector Wave length:

3" (8 cm) disc

655 nm (DVD) 790 nm (Video CD/CD) Laser power: CLASS II

Note: Designs and specifications are subject to change without notice.

Disc formats supported by this unit

The unit can play back discs bearing any of the following marks:



DVD

3" (8 cm) disc / 5" (12 cm) disc



Video CD

3" (8 cm) disc / 5" (12 cm) disc



CD

3" (8 cm) disc / 5" (12 cm) disc

Discs which cannot be played with this unit

- DVD with Region No. other than "1" or "ALL."
- DVD of PAL system
- DVD-ROM
- DVD-R/DVD-RAM
- CD-ROM
- CDV
- CD-G
- Do not try to play a Photo CD.



is a registered trademark.

Definition of Terms

Angle

Some DVD discs feature scenes simultaneously shot from different angles. The ANGLE button can be used to view the scene from different angles. (ANGLE Indicator lights up on the unit when a scene recorded at different angles is detected.)

Chapter Number

Titles are subdivided into numbered sections. You can quickly search for a favorite scene using these numbers.

DVD

A high-density optical disc on which high-quality pictures and sound have been digitally recorded. DVD incorporates new video compression technology (MPEG II) and high-density recording technology which allow entire movies to be recorded with incredible playback quality.

Playback Control

With Video CD (version 2.0), scenes or information may be selected for viewing or listening from an interactive menu that appears on the TV screen.

Subtitles

Written dialogue which appears at the bottom of the screen. Time Number

The elapsed play time from the start of a disc or title. Use to quickly find scenes. (May not work with some discs.)

Title Number

For DVD discs with two or more titles, the title is numbered as title 1, title 2, etc.

Track Number

Numbers assigned to tracks on Video CDs and CDs to allow specific tracks to be quickly located.

Video CD

CD containing picture and sound with same quality level as video tape. This unit also supports Video CDs with playback control (version 2.0).

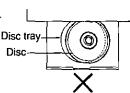
Disc Handling

Handling precautions

 Only hold disc by edges as shown. Fingerprints, dirt, and scratches can cause skipping and distortion.

- Do not write on label. side of disc.
- Never use record cleaning sprays, benzine, thinner, static electricity prevention liquids, or any other solvent.
- · Be careful not to drop or bend disc.
- Do not place more than 1 disc on disc tray.
- Do not try to close disc tray when disc is not properly placed.
- Always store discs in their proper cases when not in use.





To clean disc surface

With a soft, damp (water only) cloth, gently wipe from the center hole to the outer edge as shown below. (Wiping in a circular pattern will scratch the surface,)



If disc is brought from a cold to a warm environment, moisture may form on the disc

Wipe away moisture with a soft, dry, lint-free cloth before using disc. (See above.)

Improper disc storage

Discs could be damaged if stored or left in areas:

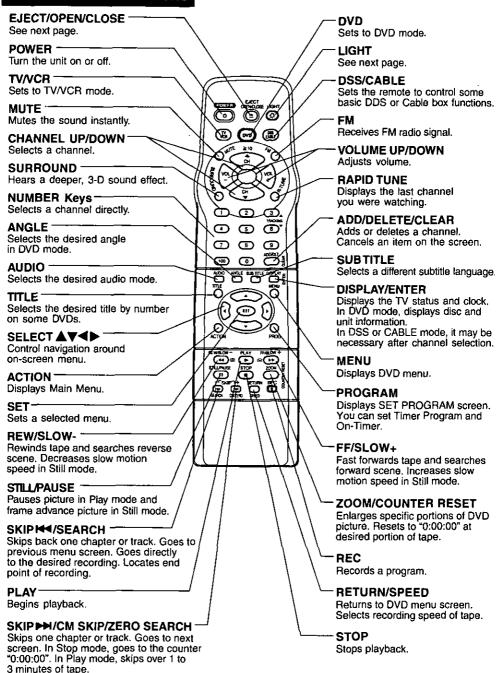
- exposed to direct sunlight.
- that are humid or dusty.
- near heat (i.e. heater, radiator, etc.).

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, and 4,819,098, licensed for limited viewing uses only.

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

Location of Controls

Remote Control Buttons



Location of Controls (continued)

Universal Light Tower® Illuminated Remote Control

LIGHT button:

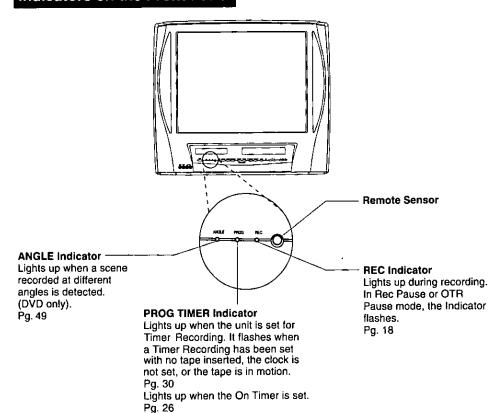
When LIGHT is pressed, (DVD, \overrightarrow{VCR} , DSS/CABLE, CH UP/DOWN, VOL UP/DOWN) buttons will light for 5 seconds for easy button location.

If no button is pressed in 5 seconds, the light goes out to conserve the battery.

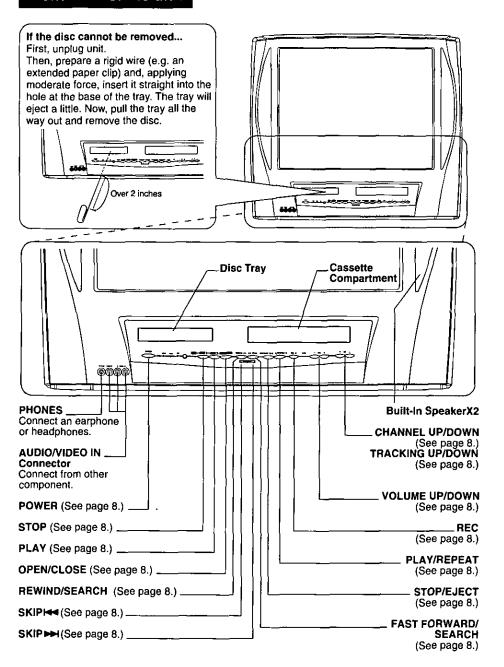
EJECT/OPEN/CLOSE button:

When this button is pressed in TV-VCR mode, the tape is ejected. This button is inoperative if pressed during recording. If pressed in DVD mode, the disc tray opens or closes.

Indicators on the Front Panel

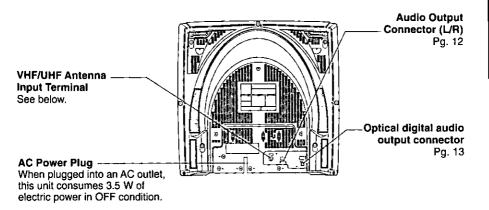


Front View of the unit



Location of Controls (continued)

Rear View of the unit



Connections

For ANT./Cable

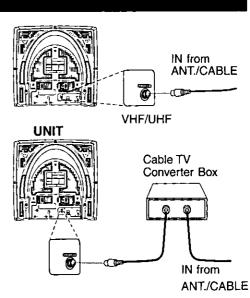
Connect the cable from Antenna/Cable to the VHF/UHF terminal on the unit.

For DSS/Cable Box

Connect the OUT jack on your cable box to the VHF/UHF terminal on the unit with a RF cable.

WARNING:

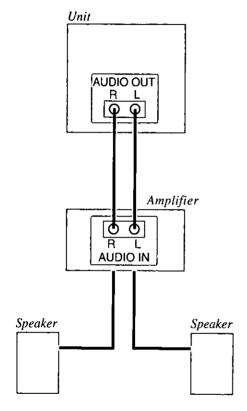
Overtightening "Nut type" RF coaxial cables may damage jacks. Finger tighten only.



Connections (continued)

Audio connections

■ Unit → Amplifier → Speaker



Manufactured under license from Dolby Laboratories. "Dolby", and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.

Ready Checklist

- Turn down the volume, then turn this unit, as well as other equipment to be connected, off before proceeding with connection.
- Do not block ventilation holes of any of the equipment and arrange them so that air can circulate freely.
- Read through the instructions before connecting other equipment.
- ☐ Ensure that you observe the color coding when connecting audio and video cables.

Enjoying digital audio output from the digital audio output connector

Notes on audio output from the optical digital audio output connector

Disc	Sound recording format	Optical digital audio output from connector
	Dolby Digital	Dolby Digital bitstream (1-5.1 ch) or OFF (no output)*1
DVD Video	Linear PCM (48/96 kHz 16/20/24 bit)	Linear PCM (2ch) (48 kHz sampling/16 bit only)*2 or no output*1
	dts	Bitstream or no output*1
CD MPEG 1		(44.1 kHz sampling)
CD	Linear PCM	Linear PCM (44.1 kHz sampling)

- *1 The type of audio output from the connector can be selected by the Settings for DVD Operation. (See page 60.)
- *2 Sound having 96 kHz sampling is converted into 48 kHz sampling when it is output from the unit's optical digital audio output connector.

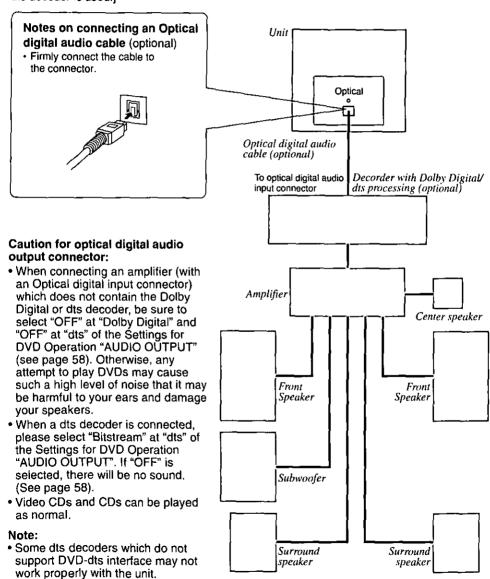
For your reference:

- Dolby Digital is a digital sound compression technique developed by the Dolby Laboratories Licensing Corporation. Supporting 5.1-channel surround sound, as well as stereo (2-channel) sound, this technique enables a large quantity of sound data to be efficiently recorded on a disc.
- Linear PCM is a signal recording format used in CDs.
 While CDs are recorded in 44.1 kHz/16 bit, DVDs are recorded in 48 kHz/16 bit up to 96 kHz/24 bit.
- If you have a Dolby Pro Logic Surround decoder, you
 will obtain the full benefit of Pro Logic from the same
 DVD movies that provide full 5.1 channel Dolby Digital
 soundtracks, as well as from titles with the Dolby
 Surround mark. For information on Panasonic or
 Technics Dolby Pro Logic Surround Sound Decoders
 please contact your local dealer.

■ Unit → Decoder with Dolby Digital → Amplifier → Speaker or

dts (digital theater systems)

When DVDs recorded in Dolby Digital or dts are played, Dolby Digital bitstream or dts bitstream is output from the unit Optical digital audio output connector. When the unit is connected to a Dolby Digital decoder or dts decoder, you can enjoy theater-quality audio in your home. [An optical digital audio cable (optional) is required when an optional Dolby Digital decoder or dts decoder is used.]



Initial Setup (Ready to Play)

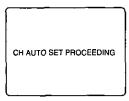
Please make all cable or antenna connections before powering on.

Initial Setup (Ready to Play)

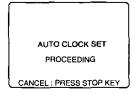
Press $_{VCR}^{TV}$ on the remote for TV-VCR mode.

Plug the unit power cord into an AC wall outlet.

Press Power* on the remote or unit. The unit comes on and auto channel and clock set starts.



 If you use a cable box, turn it on and set it to the Public Broadcasting Service (PBS) channel in your time zone.
 If you use a DSS receiver, it must be turned off.

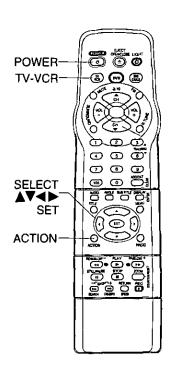


3 Settings are made automatically.
When setup is done, this screen appears.



If AUTO CLOCK SET IS INCOMPLETE screen appears, set the clock using MANUAL CLOCK SET procedure on next page.

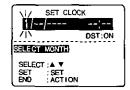




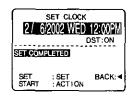
Manual Clock Set

If AUTO CLOCK SET was incomplete, manually set the clock as follows.

Press ACTION on the Remote to display SET CLOCK Menu screen.



Press ▲ ▼ to select the month and press SET to set. In the same manner, select and set the date, year, time, and DST. (Daylight Saving Time)

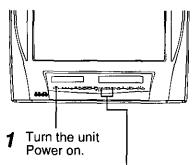


3 Press ACTION twice to start CLOCK and exit.

Reset all unit Memory Functions

When moving unit to a new location, or if a mistake was made in the Initial Setup section.

Make sure a tape is not inserted in the unit.



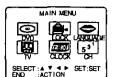
- Press and hold both PLAY and FF on the unit for more than 5 seconds.
 - · The power will shut off.
 - Please ignore "NO CASSETTE" warning.
- 3 Do "Initial Setup" on page 14.

Note to CABLE System Installer This reminder is provided to call the CABLE (Cable TV) System Installers 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.

Reset Language, Channels, Clock,

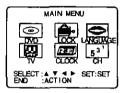
1



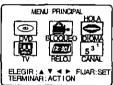
Press ACTION* to display MAIN MENU.

7 ■ Language

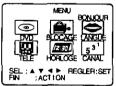
 Press ▲▼◀▶ to select language icon.



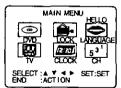
2) Press SET repeatedly.



For Spanish



For French

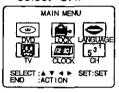


For English

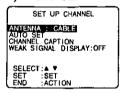
Press ACTION to exit.

Channels

1) **Press ▲▼**◀► to select "CH."



2) Press SET.

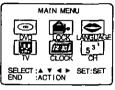


- 3) Press ▲▼ to select "ANTENNA," then press SET to set your antenna system ("TV" or "CABLE").
- 4) Press ▲▼ to select "AUTO SET," then press SET.
- After Channel Auto Set is finished, Clock Auto Set will be performed.

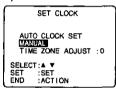
(If clock is set manually, Clock Auto Set will not be performed.)

■ Clock

 Press ▲▼◀▶ to select "CLOCK."

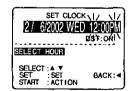


2) Press SET.



- ("TIME ZONE ADJUST" appears only when auto clock is set.)
- 3) Press ▲▼ to select "MANUAL," then press SET.

(For Auto Clock Set, select "AUTO CLOCK SET," and press SET.)



<Example MANUAL CLOCK SET screen>

Continued on the next page.

Time Zone Adjust

4) Press ▲▼ and press SET to select and set the month, date, year, time, and **DST** (Daylight Saving Time).

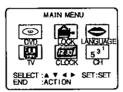
To Make Corrections. repeatedly press ◀▶ to move to error, then correct.

5) Press ACTION twice to start the clock and exit this mode.

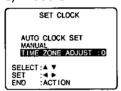
Time Zone Adjust

(Only when Auto Clock is set.)

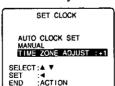
1) Press **▲▼**◀▶ to select "CLOCK."



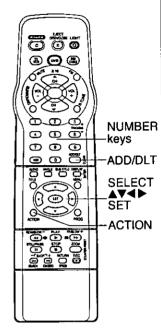
2) Press SET.



3) Press ▲▼ to select "TIME ZONE ADJUST" and press ◀ or ▶ to subtract or add hour(s) as necessary.



4) Press ACTION twice to exit.



Add or Delete a Channel

To add channel: Select channel with number keys and press ADD/DLT.



To delete channel: Select channel with CH▲▼ or number keys and press ADD/DLT.

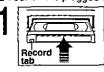


Playback a Tape

Record On a Tape

Ready Checklist

All connections are made. Your unit is plugged in.



Insert a tape. The unit power comes

on automatically.

To prevent tape jam, remove loose or peeling labels from tapes.

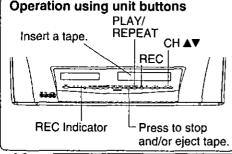


Press PLAY* to play a tape.

- If tape has no record tab (see page 4), auto play begins.
- Forward/Reverse scene search
 - → Press FF/SLOW+ or REW/SLOW-.
 - → Press again or PLAY to release.
- Still (Freeze) picture
 → Press STILL/PAUSE.
 - → Press PLAY to release.
- Slow Motion picture
 - → Press FF/SLOW+ (increases speed) or REW/SLOW- (decreases speed) in Still mode.
 - → Press PLAY to release.
- Frame by Frame picture
 → Press STILL/PAUSE in Still mode.
 - → Press PLAY to release.

Notes

- These features work best in SP or SLP mode.
- After the unit is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.
- Stop → Press STOP
- Rewind tape → Press REW/SLOWin Stop mode
- Fast forward tape → Press FF/SLOW+ in Stop mode
- **Elect tape** → **Press EJECT** on the remote or STOP/EJECT on the unit



Insert a tape with record tab. · The unit power comes on automatically.

Press CH AV or number keys to

· For "LINE" input, see bottom of next page.

Press SPEED to select recording speed (see page 4). SP = Standard Play

LP = Long Play

Select Channel.

SLP = Super Long Play · Selected speed is displayed.

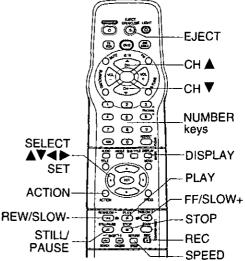
- Press REC to start recording. · To edit out unwanted portions, press STILL/PAUSE to pause and resume
 - You cannot view another channel during recording.
- Stop → Press STOP
- One Touch Recording (OTR)

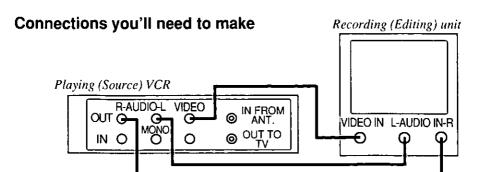
Press REC repeatedly Normal Rec → 0:30 → 1:00 to set the recording 4:00 --- 3:00 --- 2:00 length (30 min - 4 hours.)

- The unit stops recording at a preset time.
- PROG TIMER Indicator lights on the unit.

Notes

- It is not possible to record from DVD/ Video CD/CD to VHS tape using this unit.
- · After the unit has been in Rec Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head.
- The remaining recording time of an OTR can be displayed by pressing DISPLAY.





Playback (Source)

Recording (Editing) unit

1

Insert prerecorded tape.



Insert blank tape with record tab.

 Dubbing tapes protected with Copy Guard will have poor quality results.

2

Select "LINE" mode.

See "Selecting Input Mode" below.

3



Press PLAY then PAUSE at starting point to put in Standby mode.



Press REC, then Press STILL/PAUSE immediately to put in Standby mode.

- (Perform operation of steps 4 and 5 on both units at same time.) -

4



Press PLAY to start dubbing.



Press STILL/PAUSE to start dubbing.

5



Press STOP to stop dubbing.



Press STOP to stop dubbing.

Caution

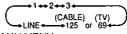
- Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.
- Please note that some tapes cannot be dubbed on this unit.
 Also, it is not possible to dub DVD/Video CD/CD to VHS tape using this unit.

Selecting Input Mode

Method 1:

Press CH ▲▼. The display will change as follows.

Method 2:

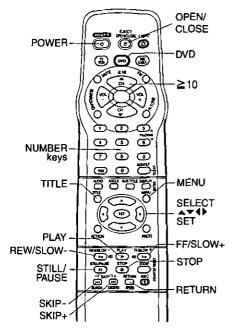


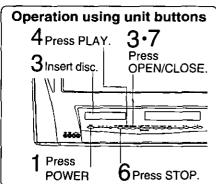
- a Press ACTION for MAIN MENU.
- b Press ▲▼◀▶ to select "TV", then press SET for SET UP TV screen.
- c Press ▲▼ to select "INPUT SELECT," and then press SET to select "TUNER" or "LINE" d Press ACTION twice to exit this mode.

Basic DVD Operation

✓ Ready Checklist

- All connections are made, (See page 11.)
- Your unit is plugged in.
- ☐ If unit is connected to an audio amplifier, turn the stereo system's power on.





- Interactive DVD... May include multiple camera angles, stories, etc.
- *2 Video CD with playback control... Particular scenes or information can be interactively selected from a menu that appears on the screen.

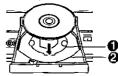
Press POWER* on the remote or unit.

Press DVD to select DVD mode.

 If a disc is already inserted, go to step 4. (Depending on the disc, playback may start automatically.)

Insert a disc.

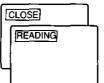
- 1) Press OPEN/CLOSE.
- Place disc into disc tray.



 Hold disc by its edges only (page 7) with printed side up and use guides to place into tray. Use 1 3"(8 cm) or 2 5" (12 cm) disc.

Press PLAY to start play.

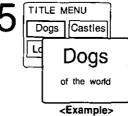
Disc tray closes automatically.



- · You may also close the tray by pressing OPEN/CLOSÉ. Data reading time differs with
- each disc.

If an interactive DVD*1 or a Video CD with playback control*2 is used and a TITLE MENU appears, go to step 5.





Press A▼◀ ▶ or number key(s) (see below) to select title and press SET to play.

Using number kev(s) starts play automatically.

<Example> 1 digit number 2 digit number 1 *** 1

12 • ≥ 10 123 ••• 100 1 2 3 digit number

Press SKIP ▶► or <a> or l to go to next or previous menu screen. SKIP function not available with all discs.

Please refer to disc jacket for operation information. To return to MENU (play stops)

Press TITLE, MENU, or RETURN. (DVD) Press RETURN. (Video CD)

Press STOP to stop play.

Press OPEN/CLOSE to eject the disc.

■ Forward/Reverse rapid scene search

- → Press FF/SLOW+ or REW/SLOWduring play.
- → Press PLAY to release.
- Starting forward/reverse search during play started from menu on Video CDs may recall menu.
- Search speed, slow at first, increases with each additional press of the button up to 5 levels

■ Forward/Reverse Chapter/Track Skip

→ Press SKIP ▶▶ or ◀◀ during play. Each press skips a chapter (DVD) or track (Video CD/CD).

Pressing

SKIP once midway through a chapter/track returns to start of that chapter/track. Each additional press skips back one chapter/track.

 Pressing SKIP ▶▶ or ◀◀ during play started from menu on Video CDs may recall menu.

Current playback position



Reverse Skip - Forward Skip

■ Still (Pause) Picture

- → Press STILL/PAUSE during play.
- → Press PLAY to release.
- . DVD/Video CD: The unit will enter Still picture mode.
- . CD: The unit will enter Pause mode.

■ Frame by Frame picture (DVD/Video CD)

- → Press STILL/PAUSE in Still mode.
- → Press PLAY to release.
- · Each press advances picture one frame.
- Hold down for consecutive frame advance.
- Whether pictures are advanced by "FRAME" or "FIELD" is selected automatically (see page 61).

■ Slow Motion picture (DVD/Video CD)

- → Press FF/SLOW+ or REW/SLOW-(DVD only) in Still mode.
- → Press PLAY to release.
- Slow motion speed, slow at first, is increased with each additional press of the button up to 5 levels.
- Reverse slow motion is not available for video CDs.

 When appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by the unit or the disc.

RESUME function

The unit memorizes the point where STOP is pressed (▶ flashes on screen).

Press PLAY to resume play from this point. Pressing STOP again or opening the tray cancels RESUME, however, RESUME is not canceled when power is turned off and on.

 RESUME works only with discs for which elapsed play time is displayed during play.

Auto-Power Off function

Power turns off after unit has been in Stop mode (DVD) for about 5 minutes.

Enjoy Video CDs featuring playback control without using menus (Video CDs only)

- Do steps 1-4 (previous page).
 When menu appears, press STOP.
- 2. Press number key(s) to select desired track (play begins).
 - · Check disc for track numbers.
 - · Press "1" to start at beginning of disc.

To Resume Menu use.

Press STOP, and press PLAY, the menu screen will be displayed.

Now, go to step 5 (previous page).

Notes

- Please read the disc jacket for operation information.
- If a single sided disc is placed in upside down,
 "PLEASE CHECK THE DISC,
 AND FOR STAINS OR SCRATCHES ON.

AND FOR STAINS OR SCRATCHES ON DISC" is displayed.

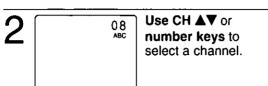
- Remove disc and press unit POWER off when not in use.
- Disc continues to rotate with menu displayed even after play is done. Press STOP to clear menu display when finished with menu.

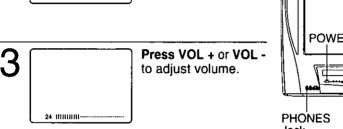
•Important: If a remote control button does not work when pressed, press the √√s button on the remote and try the button again.

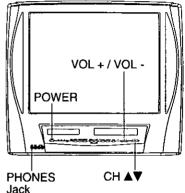
Press POWER* on the remote or unit.

Ready Checklist

- ☐ All connections are made. (See page 11).
- ☐ Your unit is plugged in.







Using the 100 key

When selecting CABLE channels 100 to 125 with the number keys, first press the 100 key, and then enter the remaining two digits.

Rapid Tune

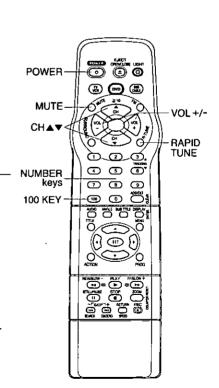
Press R-TUNE to display the last channel you were watching.

Audio Mute

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

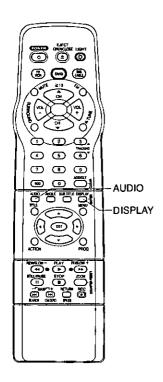
Phones

Connect an earphone (not supplied) or headphones (not supplied) to the Phones Jack.



MTS Broadcast/TV Stereo System

Equipped with dbx* -TV Noise Reduction for true MTS reproduction. dbx* -TV Noise Reduction is required for good stereo separation and audio fidelity. dbx* is a registered trademark, and is censed by dbx* Technology Licensing.



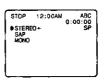
Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays. The signal being received is indicated with an " * " mark while the selected audio mode is indicated with an arrow. To change the audio mode for these broadcasts, see the "Select Audio Mode for TV Viewing" section (below.)

Press DISPLAY to display the broadcast signal being received.



MTS Stereo and SAP broadcast Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously. Select the STEREO or SAP audio mode.



MTS Stereo broadcast Multi-channel Television Sound Stereo

broadcast. Select STEREO audio mode.

• If stereo broadcast is weak and the display flickers, select MONO audio mode for possibly better results.



SAP broadcast

Secondary Audio Program (sub language).
Select SAP audio mode for the sub language.



MONO broadcast

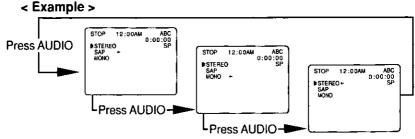
Normal monaural sound broadcast.

Audio Mode for TV Viewing

Press AUDIO to select the desired audio mode as described above.

(Arrow shows selection.)

- Each press of AUDIO will change the audio mode as shown below.
- "SAP" is selected with first press of AUDIO.



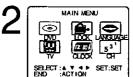
Closed Caption System

Closed Caption is ...

This multi-use system not only allows the hearing impaired to enjoy selected programs, but also makes useful information from TV stations available to everyone.

Closed Caption Mode Feature

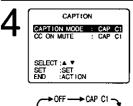
1 Press ACTION* to display MAIN MENU.



- 1) Press ▲▼◀► to select "TV."
- 2) Press SET to display SET UP TV screen.



- Press ▲▼ to select "CAPTION".
- 2) Press SET to display CAPTION screen.



- CAP C2 -

TEXT C2

- Press ▲▼ to select CAPTION MODE.
- Press SET
 repeatedly to select
 mode. (See left.)

5 Press ACTION three times to return to the normal screen.

TEXT C1

Recording and Playing Back a Closed Caption/ Text Program

Record : Record normally. Closed Caption/Text signal, if present, is recorded

automatically.

Playback: Start playback. Do above steps to select

desired caption mode.

Closed Caption Mode Selections

Caption Mode: CAP C1 or C2

A narration of selected TV programs is displayed.

Check TV program listings for CC (Closed Caption) broadcasts.

Caption Mode: TEXT C1 or C2

The lower half of the screen will be blocked out. When the TV station broadcasts information, such as program listings, it will appear in this space.

Caption Mode: OFF

Closed Caption /Text narration will not be displayed.

NOTE:

The closed caption or text signal may be broadcast over C1, C2, or both.

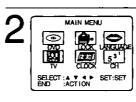
Also, text contents can vary so you may

wish to try different settings.

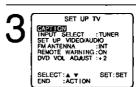
Caption On Mute Feature

Closed Caption narration, if available, is displayed when MUTE button is pressed for silence.

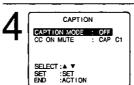
Press ACTION to display MAIN MENU.



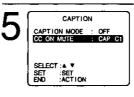
- 1) Press **▲▼**◀ ► to select "TV."
- 2) Press SET to display SET UP TV screen.



- 1) Press ▲▼ to select "CAPTION".
- Press SET to display CAPTION screen.



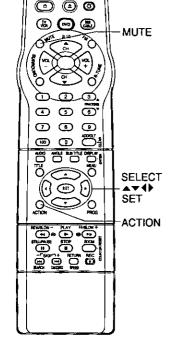
- 1) Press ▲▼ to select CAPTION MODE.
- 2) Press SET repeatedly to select "OFF."



NO → CAP C1-

CAP C2◄

- 1) Press ▲▼ to select CC ON MUTE.
- 2) Press SET repeatedly to select desired mode.
- . Each press of SET will change the display as shown left.
- The caption may be broadcast over CAP C1 or C2.
- Press ACTION three times to return to the normal screen.
 - Press MUTE to mute the sound and display closed captioning. To cancel, press MUTE again.



Note

· When a disc supporting closed caption is used, the subtitle and the closed caption may overlap. In this case, turn the subtitle or caption on mute mode off. (See page 48.)

TV Timer Features

ON-TIMER with Alarm

This unit can be set to automatically power on in one of 4 modes (TV, VCR Playback, FM radio, or DVD/Video CD/CD.) You can also combine the On-Timer with a one minute alarm that gradually increases in volume.

→ Press PROG* to display SET PROGRAM screen.

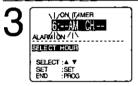
SET PROGRAM

TIMER PROGRAMMING

GNITHMER:
SLEEP YIMER:
SELECT: A V

SELECT: SET
END : PROG

- 1) Press ▲▼ to select "ON TIMER."
- 2) **Press SET** to display ON TIMER screen.



-CH03----CH125

ON-TIMER mode

selection order

CHD2

CH01

- Press ▲▼ to select desired settings.
- Press SET to set the ON-TIMER TIME or ON-TIMER mode.
- Make sure a tape is inserted if Playback mode is selected.
 Make sure a disc is inserted
- Make sure a disc is inserted if DVD (DVD/Video CD/CD) mode is selected.
- See "FM Radio" on pages 28 and 29 for instructions on how to preset FM stations.



►DVD—FM9—FM8·····FM1·

Press ▲▼ to select ALARM "ON" or "OFF."

When "ON" is selected,

an alarm will gradually increase in volume for one minute or until canceled by pressing any button (including VOL + -).

To Make Corrections,

use ▲▼ and ⋖▶ to move back and correct.

Press PROG to set ON TIMER.

• "ON TIMER SET" is displayed.

• PROG-TIMER Indicator lights up on the unit.

To Cancel ON-TIMER set,

Repeat steps 1 and 2. Then, press ADD/DLT to clear the time in step 3. Now, press PROG to end. "ON TIMER END" briefly appears on-screen.

Ready Checklist

The clock is set to correct time.

Sleep Timer

This unit can be set for auto power off.

Press PROG to display SET PROGRAM screen.



SLEEP TIMER

- Press ▲▼ to select SLEEP TIMER.
- 2) Press SET repeatedly to select the desired time.

To cancel, press SET repeatedly until 00 appears.

Press PROG to return to the normal screen.

 Pressing DISPLAY with sleep timer set displays remaining time.

Note

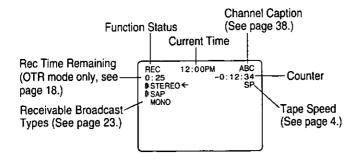
If no button on the remote or unit (including a button used to turn off the alarm) is pressed within 60 minutes after unit turns itself on, it will turn itself back off.

On-Screen Display (OSD)

TV/VCR Status & Clock Display

Press DISPLAY

to display or remove the overlay.

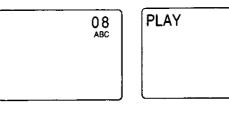


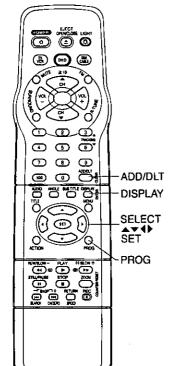
Blue Screen Display

Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display Feature set to "OFF" (see page 39), the screen will turn solid blue.

Channel & Function Display

When a function button is pressed (PLAY, FF, etc.) or you change channels, the unit mode or channel number will be displayed. (Some station names may also appear if Channel Caption is set. See page 38.)





FM Radio

FM Radio is ...

This unit has an FM radio with built-in antenna, 9 station preset, and a band range of 87.5 ~ 108.1 MHz. You can even set the On-Timer (page 26) to wake up to your favorite radio station.

FM Radio Setup

Press FM on the remote to display FM radio mode.

2



Press a number key* (1~9) to select the FM preset number.

3



 Press CH ▲▼ to select the desired radio station. (Each press changes frequency 200 KHz.)



Press ADD/DLT to set the radio station.

To Make Corrections, select station with a number key, then do step 3 again.

To exit FM mode, press √CR or DVD on the remote.

Hold down CH \triangle or ∇ for a few seconds, then release to quickly scan for FM stations in your area.

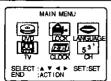
To cancel, press CH ▲ or ▼ while in search mode.

FM Antenna Setup

Make sure FM tuning is done correctly (see FM Radio Setup).

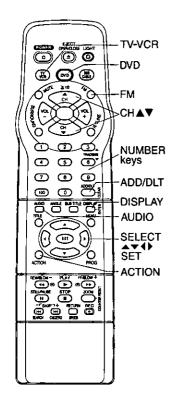
Press ACTION to display MAIN MENU.

2



- 1) Press ▲▼◀▶
 to select "TV."
- Press SET to display SET UP TV screen.

Continued on next page.





- For cable TV users
 → "INT"
- For antenna users
 → "EXT"
- 1) Press ▲▼ to select FM ANTENNA.
 2) Press SET to select "INT (INTERNAL)" or "EXT (EXTERNAL)" whichever

sounds the best.

4 Press ACTION twice to end setup.

Using FM Radio

Press FM on the remote to display FM radio mode.

2 FM 1 87. 5MHz Preskey sele FM (see

Press a number key (1~9) to select a preset FM number (see FM Radio Setup on page 28).

To exit FM mode, press √% or DVD on the remote.

Audio Mode for FM Radio

12:00PM •STEREO ← MONO FM 1 87.7MHz Press AUDIO repeatedly to select "STEREO" or "MONO" in FM Radio mode.

Notes

- FM radio cannot be recorded on a Video cassette.
- . You may get better reception by repositioning the unit.
- You cannot select FM Radio mode during playback or record, or while a blue back screen (PROG, ACTION, MENU) is displayed.
- Once stations are set, the selected station and current time are displayed when FM Radio mode is entered.
 To remove time, press DISPLAY. If DISPLAY is pressed again, the unit status screen appears.

Timer Recording

You can set up to 8 programs to be recorded while you are away.

Press PROG* to display SET PROGRAM screen.

SET PROGRAM

IMMENDATORYMANING
ON TIMER
SLEEP TIMER:00

SELECT: A V
SET : SET
END : PROG

- Press ▲▼ to select TIMER PROGRAMMING.
- Press SET to display screen.
- If a program is already in memory, press ▲▼, and SET to select an unused program number.

Ready Checklist

- ☐ All connections are made.
 ☐ Your unit is plugged in.
- ☐ The clock is set to correct time.
- ☐ The tape is long enough.☐ The record tab is in place.



Press ▲▼ to select and SET or ◀▶ to set the recording DATE.

- 1~31 = One time
- DAILY = MON~FRI
- WEEKLY SUN~SAT
 Same time once a week

Example
Today's 7 SELECT ▲ / ▼ Selection Order DAILY
Date

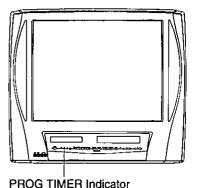
WEEKLY WEEKLY WEEKLY WEEKLY (SAT) (MON) (SUN)

Repeat step 3 to set:

- · start time, stop time
- Channel (or LINE for outside source)
- Speed (SP, LP, SLP)

Press PROG to end the program.

To Enter More
Programs,
press ▲▼ to select
and SET to set a blank
program number, and
then repeat step 3.



Press PROG twice to exit this mode.

- If you're using a cable box, make sure that it is tuned to the desired channel and the power is left on for timer recording.
- PROG TIMER Indicator lights up on the unit.

to cancel the Timer Recording.

· Any future daily or weekly recordings will be performed as programmed.

(E) (D)

(<u>3</u>)

 \bigcirc

(B) (9)

(B)

P DT START STOP CH SPD 1 day 9:00p12:00a 08 SP 2 6 10:00a12:00p125 SP 3 10 8:00p 9:00p 10 SP 4 SU 9:00p10:00p L LP CANCEL ; ADD/DLT SELECT 1-8:4 'ENTER :SET

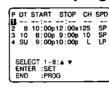
Press ▲▼ to select the desired program.

To Replace program...



- 1) Press SET to display.
- Press ▲▼ to select and press SET or ◆ to set new program contents. Press PROG.

To Clear program...



Press ADD/DLT.

Press PROG twice to exit this mode.

Notes

- 2 minutes before Timer recording is performed, "PLEASE PREPARE FOR TIMER REC" appears and/or the PROG TIMER Indicator flashes. Be sure a cassette with record tab is loaded and the unit is in Stop mode.
- · If the start times of two programs overlap, the lower numbered program will have priority.
- · If the start time for a Timer Recording comes up during a normal recording or One Touch Recording (page 18), the Timer Recording will not be performed.
- · If there is a power interruption of more than one minute, the recording may not be performed or continued.
- If "INCOMPLETE" appears after all items have been set, check all entries and make necessary corrections.

-ADD/DLT SELECT PROG

SET

STOP

31

Cable Box Universal Remote Control Feature

Universal Remote Control is...

The Remote Control may be set up to control some basic DSS or Cable box functions.

The Universal Remote Control Setup

Find your DSS box or Cable box Brand Code Number from one of the charts on the next page.

Setup remote. Hold down DSS CABLE and press number keys to enter code.

• If code number is 100 or greater, e.g., press 1 - 0 - 2 for 102.

Gonfirm code entry. Press POWER* to turn selected unit ON or OFF.

See below for controllable functions in each mode.

Notes

- Please repeat the Universal Remote Control Setup after replacing remote control batteries.
- The remote control will not operate all DSS receivers or Cable Boxes made by the manufactures listed.
 If you get no results, your particular brand cannot be controlled.

Using the Universal Remote Control (Available Buttons / Functions)

Once the remote control has been properly set up, you can select TV-VCR, FM, DVD, DSS or CABLE mode depending on which functions you wish to control.

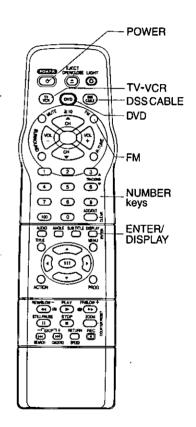
Press vcR, FM, DVD or DSS CABLE on the remote control to select the desired mode. (See below for buttons available in each mode.)

Set to VCR, FM, DVD:

All TV functions, as well as functions of TV-VCR, FM, or DVD.

Set to DSS CABLE:

- Basic VCR functions, e.g. PLAY, REC, etc.
- CABLE/DSS function, e.g. POWER, ENTER, NUMBER keys (except 100 key), CH UP/DOWN.



 Toshiba
 90 | Optimus
 94,95

 Hitachi/ Hughes
 91,99 | Panasonic
 96

 Primestar
 92 | ProScan
 97

 Drake
 93 | RCA
 97

DSS Brand Code Numbers

Magnavox 94, 95 Uniden 94, 95	SONY				
Cable Box Brand Code Numbers					
Archer	Oak Sigma 46, 11, 129, 101 Panasonic 17, 16, 08, 87, 109 Philips 23, 24, 20, 13, 07, 50, 128, 129 Pioneer 06, 05, 12 Pulsar 04, 42, 63, 44, 30, 52, 124, 126 Quest 06, 05, 12 Radio Shack 44, 51, 75, 59, 126 RCA 17, 16, 08, 87, 109 Realistic 44, 51, 75, 59, 126 Recoton 44, 51, 75, 59, 126 Regal 41, 14, 15, 28, 102, 104, 103, 130 Regency 28, 29, 130 Rembrandt 44, 44, 26, 3, 29, 01, 32, 39, 120, 126 Samsung 42, 06, 32, 9, 120, 126 Scientific Atlanta 08, 09, 25, 61, 53, 87 Sheritech 27 Signal 26, 112 SL Marx 42, 06, 32, 40, 43, 44, 52, 63, 126 Sprucer 17, 16, 08, 87, 109 Stargate 04, 42, 32, 40, 63, 44, 30, 52, 06, 124, 126 Stargate 04, 42, 32, 40, 63, 44, 30, 52, 06, 124, 126 Sylvania 19, 18 Teknika 74, 35 Telecaption 77, 127 Teleview 40, 19, 38, 32, 42, 06 Teyscan 19,				
Oak46, 11, 129, 101	<u> </u>				

Notes

- In DSS or CABLE mode, it may be necessary to press ENTER after pressing number keys for channel selection.
- In DSS or CABLE mode, POWER, CH Up/Down, Number Keys, ACTION, PROG, DISPLAY/ENTER, SEARCH/SKIP-, R-TUNE, SELECT, SET, CM SKIP/ZERO/SKIP+, COUNTER RESET/ZOOM, ANGLE, AUDIO, TITLE, SUB TITLE, MENU, or ADD/DLT are not available. Press 록, FM, DVD to use these functions.
- Depending on your DSS receiver or Cable box brand, some of the functions listed may not be remote controllable.
- Some DSS receiver or Cable box brands require you to turn on the power manually.
- Due to changes in infra-red commands used by manufacturers, some brands have several codes. If your unit does not respond to the first code, please try the next one.

Tape Operation

Search System is ...

Each time a recording is made, an invisible index mark is placed on the tape. When timer recordings are made, program index and information are also included. These index marks can be used to access or scan recordings.

Index Search

Go directly to the desired recording.

INDEX SEARCH
ENTER INDEX NUMBER: 1
USING 1-9 KEYS
FORWARD SEARCH: FF
REVERSE SEARCH: REW

EXIT: STOP

Press SEARCH*
in Playback or
Stop mode to
display INDEX
SEARCH screen,
and then press
NUMBER Keys to
select the
recording number.

 To calculate number, see below.

Press FF or REW to start search.

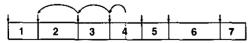
2 INDEX SEARCH
FORWARD SEARCH: FF
REVERSE SEARCH: REW

Play begins at search end. To search forward or back 1 index, press FF or REW while screen left in displayed (10 sec.).

To cancel, press PLAY or STOP.

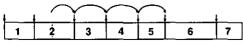
■ To calculate the Index Number Example 1:

To go to rec. 2 from rec. 4, enter 3 and press REW.

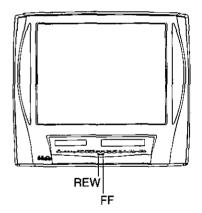


Example 2:

To go to rec. 6 from rec. 2, enter 4 and press FF.



NOTE: Indicates start points of each recording.



Notes

- Make each entry within 5 minutes, or the Index Search mode will be canceled.
- If Index Search is started very close to an index mark, that index mark may not be counted in the search.

<u>~</u>

3 0

(II)

ത

NUMBER

SELECT

SET

REW

SEARCH

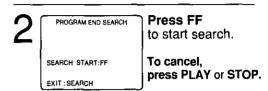
FF

keys

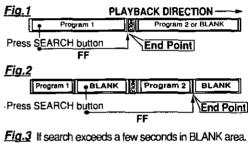
Program End Search

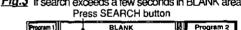
Locates end point of recording for continuity.

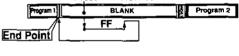
Press SEARCH twice in Playback or Stop mode to display PROGRAM END SEARCH screen .



Example of Program End Search operation.

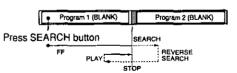






Upon locating end point...

The unit searches slightly past end point, reverse searches, and plays the last few seconds of the program, then stops.



Note

 If Program End Search is started very close to an index mark, that mark may be skipped over.

Tape Operation (continued)

Repeat Play

Set to see a recording over and over.



To turn "ON," press PLAY/REPEAT on the unit repeatedly in Play mode to select "REPEAT ON".

To turn "OFF," repeat above to select "REPEAT OFF."

 Playback repeats when tape end is reached or unrecorded portion over 30 seconds is detected.

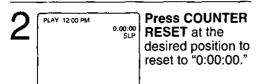
Note

· For repeat play in DVD mode, see page 55.

Zero Search

To quickly return to a specific tape counter location.

Press DISPLAY* during playback to display the Counter.

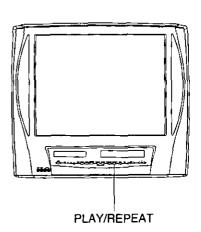


Continue playback, rewind, or fast forward.

4 Press STOP.

5 Press CM/ZERO in stop mode to start ZERO SEARCH.

 Unit goes into FF or REW mode and stops at the last point the Counter was set to 0:00:00.



Auto Operation Functions

Auto Shut Off

No broadcast signal in TV mode (Only when Weak Signal Display is set to **OFF**.), DVD stop, or blank tape is played for 5 minutes

- → Power turns off
- This feature is canceled if any button is pressed during above conditions.

Auto Playback

Insert a tape in Power off mode

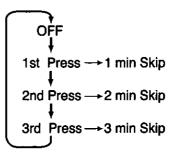
- → Power turns on
- Playback begins if tape has no record tab.
- Auto Rewind (except for Recording) Tape reaches its end
 - → Rewind, → Stop
- Playback Auto Eject (Repeat Play is "OFF") Tape with no record tab reaches its end
 - → Rewind, → Stop, → Eject

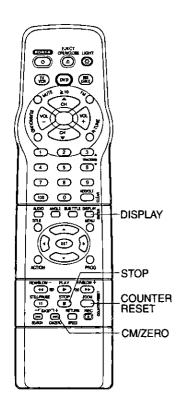
Commercial Skip

By pressing the CM/ZERO button in Playback mode you can skip over 1 to 3 minutes of recorded tape in just a few seconds.

Press CM/ZERO repeatedly to select skip time in Playback mode.

No indication appears.





Special VCR Features

Channel Caption

◆ Press ACTION*
to display MAIN MENU.

MAIN MENU

SELECT : A ▼ ◀ I END : ACTION

- Press ▲▼◀► to select "CH."
- 2) **Press SET** to display SET UP CHANNEL screen.

Channel Caption is ...
Station names, e.g. ABC, CNN, etc. are set so they will appear when a channel is selected. Choose 24 preset names.

Ready Checklist

You need a list of stations and the channel numbers you receive them on.



- Press ▲▼ to select CHANNEL CAPTION.
- Press SET to display screen.
- CHANNEL CAPTION

 | CBS -- CNN -| CBS -- CNN -| FOX -- ESPN -| NBC -- HBO -| SELECT: A V 4 |
 | SET SET |
 | END : ACTION

CHANNEL CAPTION

35 T\$N 52 -- GLOB 1128

CLEAR : ADD/DLT

CBC 62 CTV 21

- 1) Press **A**▼ to select a station.
- 2) Press SET (or ▶) to move cursor to the right.
- Press ▲▼ to select channel number.
- 4) **Press SET** (or **◄►**) to set preset captions.
- Repeat step 4 until the Caption List is complete.

To Make Corrections

Press ▲▼, then SET (or ►) to select channel number.

Press ▲▼ to change, or ADD/DLT to delete.

5 Press ACTION three times to end setup.

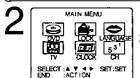
Ready Checklist

It is necessary to enter TV mode by pressing v_N before selecting "CH" on the MAIN MENU.

Remote Warning Feature

When Universal Remote Control (page 32) is used, and this feature is set to "ON," a warning appears whenever an invalid key is pressed in DSS or Cable mode.

Press ACTION to display MAIN MENU.

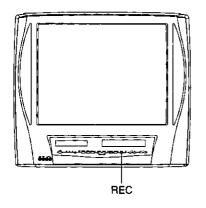


- 1) Press ▲▼◀► to select "TV."
- 2) Press SET to display SET UP TV screen.



- 1) Press ▲▼ to select REMOTE WARNING.
- 2) Press SET to set "ON" or "OFF."
- "REMOTE WARNING: OFF"
- → Remote warning will not appear even if invalid key is pressed.

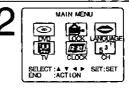
4 Press ACTION twice to return to normal screen.



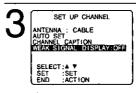
Weak Signal Display Feature

When "ON" is selected, the picture is displayed even when a broadcast signal is weak or non-existent.

Press ACTION to display MAIN MENU.



- 1) Press ▲▼◀ ► to select "CH."
- 2) Press SET to display SET UP CHANNEL screen.



- Press ▲▼ to select WEAK SIGNAL DISPLAY.
- 2) Press SET to set "ON" or "OFF."

Notes

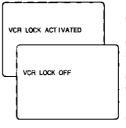
- "ON" = Picture is displayed regardless of signal condition, and may not always be clearly visible.

 "OFF" Screen turns colid blue when
- "OFF"= Screen turns solid blue when signal is absent or weak.
- If unit is connected to equipment which has blue back feature, selecting "ON" will have no effect on the other equipment.

Press ACTION twice to return to the normal screen.

VCR Lock

All operations are prohibited except Timer recording and tape eject. Useful for families with small children.



In Stop mode, hold down REC on the unit without a cassette inserted for 7 seconds to turn "ON." (Please ignore "NO CASSETTE" warning.)

Repeat above with or without cassette to turn "OFF."

- VCR Lock is canceled automatically after about 24 hours if clock is set.
- "Auto Power On" is not prohibited when VCR Lock is activated.

V-Chip Control Feature

V-Chip Control Feature is...

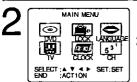
This unit has a built-in V-Chip Control which allows you to block unwanted TV usage based on US MOVIES and US TV PROGRAMS Ratings.

Process of V-Chip Control Feature Enter Code Setup Blocking

Secret Code

A 4-digit code must be entered to view a blocked program or change rating settings.

Press ACTION* to display MAIN MENU.



- 1) **Press ▲▼◀▶** to select "LOCK."
- Press SET to display LOCK screen.

BACK SPACE: 4
ENTER 10-9
ENTER 10-9
ENTER 10-9

To Make Corrections

Press

✓ repeatedly to

Press number keys to

make the correction.

move the cursor.

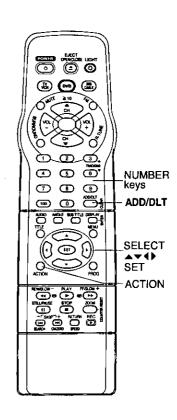
- Press number keys to enter your secret code.
- Enter same code again for confirmation.
- Step 2) not necessary when changing rating or secret code.
- Take care that you are not observed entering the secret code.

LOCK
CONFIRM 4-DIGIT CODE

CHANGE CODE: ADD/DLT
CONTINUE: SET
END : AGT ION

Press SET to display LOCK MENU (see pages 41, 42).

Or Press ACTION twice to exit.



Changing your secret code

You will need your current code.

Do steps 1 ~ 3. In step 4, press ADD/DLT to clear current code.

Repeat steps 3 and 4 to enter new code.

- Some rental movies do not include V-Chip data.
- DO NOT forget your secret code.
- Once ratings are set, restricted tapes or programs cannot be accessed unless the secret code is entered.

If LOCK menu is not displayed, do "Secret Code" steps on page 40.

US MOVIES Ratings

US MOVIES
CHANGE SETTINGS
US TV PROGRAMS : OFF
CHANGE SETTINGS
DVD LOCK
CHANGE SETTINGS
NEXT PAGE
SELECT: A Y
END : ACTION

- Press ▲▼ to select US MOVIES.
- 2) Press SET to set "ON" or "OFF."
- "ON" → V-Chip Control is activated.
- "OFF" → V-Chip Control is deactivated.

Note

 "NEXT PAGE" displays CANADIAN V-Chip setting menu. Not necessary except when viewing Canadian tapes or broadcasts.

LOCK
US MOVIES : OFF
CHANGE SETTINGS
US TV PROGRAMS : OFF
CHANGE SETTINGS
OVD LOCK
CHANGE SETTINGS
NEXT PAGE
SELECT: A V NEXT PAGE
END : ACTUS SET: SET

- Press ▲▼ to select CHANGE SETTINGS.
- Press SET to display screen.

VIEW NA PROGRAMS?: YES G UNLOCKED PG PG-13 RC-17 X CONTAINS NO RATING SELECT: A Y SET: SET END : ACTION

- Press ▲▼ to select VIEW NR PROGRAMS?.
- 2) Press SET to set "YES" or "NO."

NR (Not Rated) PROGRAMS Some movies, such as old movies or foreign movies usually have no ratings.

VIEW NR PROGRAMS?: YES

G UNICOKED

PG
PG-13
R
NC-17

CENERAL AUDIENCE
SELECT A Y SET:SET
END : ACTION

- Press ▲▼ to select and SET to set ratings to be blocked. (See ratings chart on this page.)
- Press ACTION to redisplay LOCK menu and continue with US TV PROGRAMS Ratings Setup (next page).
 Or, press ACTION three times to exit.

Process of V-Chip Control Feature Enter Code Setup Setup Blocking

US MOVIES RATINGS

- GENERAL AUDIENCE:
 All ages admitted.
- PG PARENTAL GUIDANCE: Some material may not be suitable for children.
- PG-13 PARENTS CAUTIONED:
 Some material may be inappropriate for children under 13.
- R RESTRICTED:
 Children under 17 must be accompanied by a parent or adult.
- NC-17 OVER AGE 17 ONLY: No one 17 and under admitted.
 - X ADULTS ONLY:

V-Chip Control Feature (continued)

If LOCK menu is not displayed, do "Secret Code" steps on page 40.

US TV PROGRAMS Ratings

LOCK
US MOVIES
CHANGE SETTINGS
US TV PROGRAMS
CHANGE SETTINGS
DVD LOCK
CHANGE SETTING OFF
CHANGE SETTING OFF
CHANGE SETTING SELECT: A VEXT PAGE
SELECT: A VEXT PAGE
END : ACTION

- Press ▲▼* to select US TV PROGRAMS.
- 2) Press SET to set "ON" or "OFF."
- "ON" → V-Chip Control is activated.
- "OFF" → V-Chip Control is deactivated.

Note

 "NEXT PAGE" displays CANADIAN V-Chip setting menu. Not necessary except when viewing Canadian tapes or broadcasts.

LOCK

US MOVIES : OFF
CHANGE SETTINGS
US TV PROGRAMS : OFF
GHANGE SETTINGS
DVD LOCK : OFF
CHANGE SETTINGS
SELECT: A V NEXT PAGE
SELECT: A V SET : SET
END : ACTION

- 1) Press ▲▼ to select CHANGE SETTINGS.
- Press SET to display screen.

VIEW NR PROGRAMS?: YES TV-Y TV-Y7 FV UNLOCKED
TV-PG V S L D TV-14 V S L D SOME SELECT A V S S E SET SET

- Press ▲▼ to select VIEW NR PROGRAMS?.
- 2) Press SET to set "YES" or "NO."

NR (Not Rated) PROGRAMS

Some TV shows, such as news, sports, weather, bulletins, emergency information usually have no ratings.

VIEW NR PROGRAMS?: YES INLOCKED

TV-Y

TV-B

TV-PG

TV-H4

V S L

D

TV-H4

SELECT: AV V S L

SELECT: AV V S SET: SET

END: ACTION

 Press ▲▼ to select and SET to set ratings to be blocked. (See ratings charts on this page.)

Note

You may select from standard TV ratings (chart 1), or customize to a specific content rating (chart 2).

 Ratings highlighted in Green will be blocked.
 Ratings in white letters will not be blocked. Process of V-Chip Control Feature

Enter Code

Setup

Blocking

US TV PROGRAMS RATINGS: Chart 1

TV-Y FOR ALL CHILDREN:

Content specifically geared to young viewers ages 2-6.

TV-Y7 FOR AGE 7 AND OLDER:

May contain mild physical or comedic violence which may frighten children under 7.

TV-G GENERAL AUDIENCE:

Contains little or no violence, strong language, or sexual dialogue or situations.

TV-PG|| PARENTAL GUIDANCE:

May contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.

TV-14 PARENTS CAUTIONED:

May contain sophisticated themes, sexual situations, strong language, and more intense violence.

TV-MA MATURE AUDIENCE: May contain mature themes, p

May contain mature themes, profane language, graphic violence, and sexual situations.

US TV PROGRAMS RATINGS: Chart 2

FV Fantasy Violence

V | Violence

D

S | Sexual Situations

L Adult Language

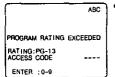
Sexually Suggestive Dialogue

5 Press ACTION four times to exit this mode.

Advanced Operation

Blocking Message

<When V-Chip Control is activated>



 If a program or movie exceeds the ratings you have set, a message will appear on a black background and sound is muted.

To View a Blocked Program / Movie [Temporarily Deactivate V-Chip Control] Enter your secret code (ACCESS CODE) in the Blocking Message screen.

 V-Chip Control is reactivated when power is turned off or power failure occurs.

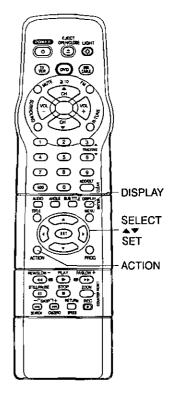
[Deactivate V-Chip Control]

Enter your secret code (steps 1-4 page 40). Then, set US MOVIES and/or US TV PROGRAMS to "OFF" using ▲▼ and SET. (Ratings set on pages 41, 42 are retained and will be in effect when V-Chip Control is activated again.)

Process of V-Chip Control Feature
Enter Code

Setup

Blocking



<u>Audio Features</u>

Audio Mode for Playback

Choose the type of sound track for playback.

See the "Playback a Tape" section on page 18 to playback the tape.

2 HIFI (L/R) ← HIFI (L) HIFI (R) NORMAL

 This screen appears when you press AUDIO during playback. Press AUDIO repeatedly (each press within 5 seconds) to select desired mode.

 Select "HIFI (L/R)", "HIFI (L)" or "HIFI (R)" to listen to stereo recordings in stereo sound. Select "NORMAL" for monaural sound.

With the proper audio mode setting, your unit can:

- record and playback MTS stereo broadcast (main language) in stereo Hi-Fi. Stereo sound is recorded on the left and right audio tracks and on the video portion of a tape.
- record and playback a monaural broadcast (main language) or SAP (Secondary Audio Program, usually in a second language) on the Hi-Fi tracks for better quality monaural sound.
- playback non-Hi-Fi tapes in monaural.

Audio Mode for Recording

Choose audio mode to match recording type.

- Press AUDIO repeatedly to select the audio mode according to the type of broadcast to be recorded.
 - The Audio mode selected stays in effect until it is changed.

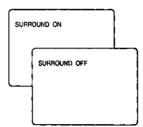
See the "Record On a Tape" section on page 18 to do a recording.

- Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback with monaural sound.
- To listen to Hi-Fi stereo playback, the unit AUDIO (L/R) jacks must be connected to a stereo amp and speakers.
- There may be a difference in audio level between Hi-Fi and normal audio playback.

Surround Sound System

You can hear a deeper, 3-D sound effect using just the unit's two front speakers.

Set Surround sound.

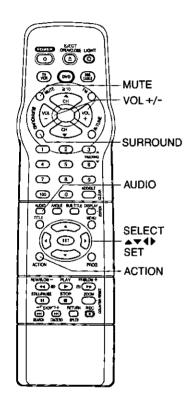


Press SURROUND.

"SURROUND ON" is displayed.

To Cancel, press SURROUND.

- Surround sound effect is not available for normal (mono) broadcasts.
- The surround effect (TV, VCR mode only) is not output to Audio Output L/R Connector.

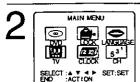


Important: If a remote control button does not work when pressed, press the VCH button on the remote and try the button again.

This feature allows easy setting of picture and sound suitable for each program source.

Video Menu

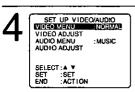
Press ACTION* to display MAIN MENU.



- 1) Press **▲▼**◀▶ to select "TV."
- 2) Press SET to display SET UP TV screen.



- Press ▲▼ to select "SET UP VIDEO/AUDIO."
- 2) Press SET to display.



- Press ▲▼ to select "VIDEO MENU.
- 2) Press SET repeatedly to select desired mode. (See below.)

Press ACTION three times to end setup.

[Video Menu]

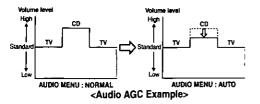
NORMAL

Factory setting.

MOVIE

Picture is adjusted for a Movie-like feel. **NIGHT**

Color and picture intensity are adjusted to be easier on the eyes for night viewing.



Audio Menu

Do steps 1 - 3 left.



- Press ▲▼ to select "AUDIO MENU."
- 2) Press SET to select desired mode. (See below.)

Press ACTION three times to end setup.

[Audio Menu]

NORMAL

Factory setting

AUTO

[Audio AGC (Auto Gain Control)]

The sound level is automatically adjusted to suit the program source (see below left).

MOVIE

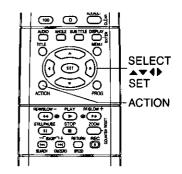
Sound suited to movies.

MUSIC

Sound suited to music.

SPEECH

Sound suited to dialog.



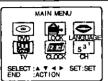
- . The effects of this feature on the signal is not output to the Audio/Video Output Connector.
- When AUDIO MENU mode is "AUTO." the AUDIO ADJUST setting will be "STANDARD."
- AUDIO MENU settings remain in memory.
- VIDEO MENU settings do not remain in memory.

Video / Audio Adjustment

Video Adjustment

Press ACTION to display MAIN MENU.

2



- 1) Press ▲▼◀▶ to select "TV."
- Press SET to display SET UP TV screen.
- SET UP TV

 CAPTION
 INPUT SELECT :TUNER
 SET UP "VIDEO/ANDIO]
 FM ANTENNA :INT
 REMOTE WARNIO: ON
 DVD VOL ADJAST :- 2

 SELECT AT ION

 SET: SET
- Press ▲▼ to select "SET UP VIDEO/AUDIO."
- Press SET to display.
- SET UP VIDEO/AUDIO
 VIDEO MENU :NORMAL
 VIDEO MENU :MUSIC
 AUDIO MENU :MUSIC
 AUDIO ADJUST

 SELECT: A V
 SET :SET
 END :ACTION
- 1) Press ▲▼ to select "VIDEO ADJUST."
- Press SET to display.
- Press ▲▼ to select an item. (See below.)
- Press ◀► to adjust.

To Reset VIDEO Controls.

Press ▲▼ and SET to select and set "STANDARD." All controls return to their factory settings.

6 Press ACTION four times to end setup.

[VIDEO Adjustment]

COLOR Control

Adjust color intensity.

TINT Control

Adjust for natural flesh tones.

BRIGHTNESS Control

Adjust picture brightness.
PICTURE Control

Adjust picture intensity by adjusting both contrast and color level in the proper

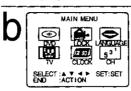
balance.

SHARPNESS Control

Adjust picture sharpness.

Audio Adjustment

A Press ACTION to display MAIN MENU.



- Press ▲▼◀▶ to select "TV."
- Press SET to display SET UP TV screen.



- Press ▲▼ to select "SET UP VIDEO/AUDIO."
- Press SET to display.



- Press ▲▼ to select "AUDIO ADJUST."
- Press SET to display.



- Press ▲▼ to select an item. (See below.)
- Press ◀► to adjust.

To Reset AUDIO Controls.

Press ▲▼ and SET to select and set "STANDARD." All controls return to their factory settings.

Press ACTION four times to end setup.

[AUDIO Adjustment]

BASS Control

To adjust the intensity of low frequency sound.

TREBLE Control

To adjust the intensity of high frequency sound.

BALANCE Control

To adjust the (L/R) unit speaker output level.

 The levels set here do not affect other audio equipment when connected to the Audio Output L/R Connector.

Disc Operation

Subtitle Language (DVD only)

You can select a different subtitle language (if offered) than the one set at the Settings for DVD Operation, (See page 57.)





Press SUB TITLE* in Play mode to display the subtitle selection

- on-screen. Display disappears after 5
- seconds. When no subtitles are offered. "-" will be displayed instead of the language number.



- Press ▲▼ to select desired language.
- 2) **Press** ► (or <) to set.
- 3) Press ▲ (or ▼) to select "ON" or "OFF."

Number of subtitle language being played back.

Notes

- · When closed captioning is used along with subtitles, they may overlap. If so, turn one function off. (See pages 24 and 25.)
- If after several presses of the button the language does not change, language selection is not offered on the disc.
- Subtitles may not change to the selected language immediately.
- When power is turned on again or disc is removed, subtitles revert to initial setting language. If the initial language is not recorded on the disc, the disc's priority language will appear.

Audio Soundtrack Language (DVD only)

You can change the audio soundtrack language. selected at the Settings for DVD Operation, to a different language if available. (See page 57.) (This operation works only with discs on which multiple audio soundtrack languages are recorded.)



Press AUDIO in Play mode to display the audio selection on-screen.

 Display disappears after 5 seconds.

Audio attribute 1 type, sampling frequency, bit No. of the disc.



1) Press **▲**▼ to select desired language.

Number of the audio soundtrack language being played back.

Ready Checklist

Please read "Basic DVD Operation" on page 20.

[Subtitle language (No.)] [Audio sound track language (No.)]

ENG	English
FRA	French
DEU	German
ITA	Italian
ESP	Spanish
NLD	Dutch
SVE	Swedish
NOR	Norwegian
DAN	Danish
POR	Portuguese
RUS	Russian
JPN	Japanese
СНІ	Chinese
KOR	Korean
MAL	Malay
VIE	Vietnamese
THA	Thai
	Other

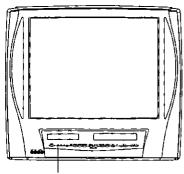
 Change the No. by pressing ▲▼, and press SET.

[Audio attribute 1 type, sampling frequency, bit No. of the disc (see page 58)]

	96KHz	16bit	
LPCM	or	20bit	Linear PCM disc
	48KHz	24blt	
Dolby Digital	1ch - 5.	1ch	Dolby Digital disc
DTS	1ch - 5.	Ich	DTS disc

- If, after several presses of the button the language does not change, language selection is not offered on the disc.
- When power is turned on again or disc. is removed, language reverts to initial setting. If this language is not recorded on the disc, the language recorded will be heard.

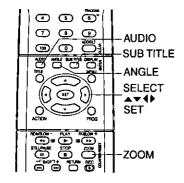
When \bigcirc appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by the unit or the disc.



ANGLE Indicator

Notes

- ANGLE Indicator lights up on the unit when a scene recorded at different angles is detected.
- The angle number can be set beforehand so that the angle is switched whenever ANGLE Indicator lights up.



Notes

- Closed captioning will not be displayed while Picture Zoom is used. To see subtitles, set the subtitle feature to ON (see page 48).
- The subtitle cannot be enlarged nor can it's position be changed.
- The picture zoom feature does not work with a Video CD.
- During picture zoom, "ZOOM1" or "ZOOM2" is displayed on-screen.
- Zooming, on some discs, may result in poor picture quality, or not operate.

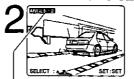
Multiple Angle Viewing (DVD only)

DVDs may contain scenes shot from multiple camera angles allowing the same scene to be viewed at different angles. You can view these angles, if available, using the ANGLE button.



Press ANGLE in Play mode to display the angle selection on-screen.

Display disappears after 5 seconds.



Press ▲▼ to select the desired angle.

Number of angle being played back.

Vocal selection for Karaoke discs (DVD/Video CD)

Press AUDIO in Play mode to display the audio screen.



- 1) Press ▲▼ (or ◀►) to select as shown below.
- 2) Press ► (or ◄) to set. (DVD only)
- DVD Karaoke (1 vocal) VOCAL ON -- VOCAL OFF
- DVD Karaoke (2 vocals) VOCAL V1 + V2-+ VOCAL V1-+ VOCAL V2-- VOCAL OFF
- Video CD LR → L → R

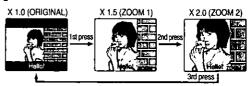
Picture Zoom (DVD only)

You can enlarge specific portions of a picture and select the zoom ratio using the ZOOM button on the remote during DVD playback.

Set Zoom size.

Press ZOOM repeatedly to change display as follows.

 You can enlarge the center portion of the image to one of 2 magnifications.

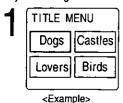


Use the \triangle , ∇ , \triangleleft and \triangleright buttons to move the position up, down, left and right.

Disc Operation (continued)

Title menu (DVD only)

Some DVDs have more than one title, e.g. movies. If the disc offers a title menu, you can select the desired title number. (Operation may vary according to the disc.)



Press TITLE* in Play mode to display title screen.

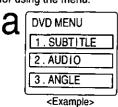
 Pressing TITLE again resumes play from the scene when TITLE was first pressed.



- Press ▲▼◀► or number Key(s) to select a title.
- 2) Press SET or PLAY to start play.
- Step 2) not necessary when using number key(s).

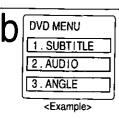
DVD menu (DVD only)

DVDs may offer a special menu. This menu may include guides to unique contents, audio/subtitle languages, etc. Although contents and operation may vary, the following steps show basic steps for using the menu.



Press MENU in Play mode to display DVD

 Pressing MENU again resumes play from the scene when MENU was first pressed.



Repeat step "b" if more

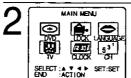
than one menu.

- Press ▲▼◀► or number key(s) to select an item.
- Press SET or PLAY to access.
- Step 2) not necessary when using number key(s).

Program Play (Video CD/CD)

You can program specific tracks and order of play.

1 Press ACTION in Stop mode to display MAIN MENU.



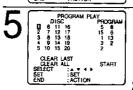
- Press ▲▼◀▶ to select "DVD."
- Press SET to display screen.



- 1) **Press ▲▼** to select "PLAY MODE."
- Press SET to display screen.



- Press ▲▼ to select "PROGRAM PLAY."
- Press SET to display screen.



- Press ▲▼◀▶ to select a track number. (Track numbers on disc are displayed.)
 Press SET to set.
- Repeat step 5 to select another track.
- The selected track is added on the right side.



- Press A♥◀▶ to select "START."
- Press SET to start play of programs in the sequence selected.
- To cancel, press STOP during play, then press CLEAR.

- . Up to 15 tracks can be programmed.
- "

 " or "

 " (depending on disc) indicates additional PROGRAM PLAY screen. Press

 ▼

 For next or previous screen.
- To clear the last program one by one, Press ▲▼◀► to move to "CLEAR LAST" and press SET. (Pressing CLEAR also clears last program.)
- To clear all programs,
 Press ▲▼◀► to move to "CLEAR ALL" and press SET.
 (Programs are also cleared when the power is turned off or the disc is removed.)

Program Repeat Play (Video CD/CD)

- **a** Do steps 1 through 6 on previous page.
- Press DISPLAY to display Disc Information screen.
 (Disc Information Screen)



- C Press DISPLAY again to display Unit Information screen.
- Press SET to enter Select mode. ("REPEAT OFF" will flash.)

(Unit Information Screen)



Press A▼ to select "DISC REPEAT."

(Unit Information Screen)



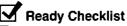
Press SET to set mode.

("DISC REPEAT" stops
flashing.)

To cancel, select "REPEAT

OFF" in step e, then press

SET.

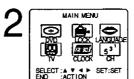


- Unit is in TV-VCR mode, press von.
- □ Video CD or CD is inserted.

Random Play (Video CD/CD)

Tracks are played in a random order.

Press ACTION in Stop mode to display MAIN MENU.



- Press ▲▼◀▶ to select "DVD."
- Press SET to display screen.



- Press ▲▼ to select "PLAY MODE."
- Press SET to display screen.



- 1) Press ▲▼
 to select
 "RANDOM PLAY."
- 2) Press SET to begin random play.
- To cancel, press STOP during play, then press CLEAR.

MP3 Playback Operation

Important: If a remote control button does not work when pressed, press the DVD button on the remote and try the button again.

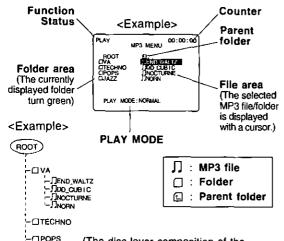
MP3 Playback

You can use this unit to play MP3 format audio recorded for personal use with a computer etc. onto a CD-R or CD-RW. Play may not be possible in some cases due to the condition of the recording.

1 Press POWER on the remote or DECK.

Press OPEN/CLOSE, and then place a MP3 disc into the disc tray. Press OPEN/CLOSE to close.

3 Display MP3 MENU and start playing automatically. (The MP3 CD layer is displayed.)



Forward/Reverse Search Press FF/SLOW+ or RR/SLOW- during play. Press PLAY to release.

 Search speed, slow at first, increases with each additional press of the button up to 4 levels.

(The disc layer composition of the

sample OSD above is displayed.)

Forward/Reverse Track Skip Press SKIP ▶▶I or I◄◄ SKIP during play.

Each press skips a track.

-□JAZZ

 If pressed within first 3 seconds of playback, skips to the previous track. If over 3 seconds, returns to first of that track. (I◄◄ SKIP only.)

 Only the SKIP ▶►I or I◀■ SKIP button can be used for track skip selection during playback.
 Place unit into Stop mode before performing folder/ file selection (see above right.)

4 Press STOP to stop playing.

Press OPEN/CLOSE to eject the disc. The MP3 MENU is closed automatically. MP3 playback (During STOP mode)

- 1) Press ▲▼ to select an MP3 file (□).
- 2) Press SET or PLAY to start playback.

Select folder (During STOP mode)

- 1) Press ▲▼ to select a folder (□).
- 2) Press SET displays files/folders contained in the folder.

Select parent folder (During STOP mode)

- 1) Press ▲▼ to select a folder (ඬ).
- Press SET changes to the previous layer display.

Note

Folder area operation cannot be done.
 Only file area operation is possible.

Select PLAY MODE (During STOP mode)

- Press ◀► moves the cursor to PLAY MODE.
- 2) Press ▲▼ to select the desired PLAY MODE (see below).

[PLAY MODE]

NORMAL:

All MP3 files are selected and played back one time only.

SINGLE REPEAT:

The selected MP3 file is played back repeatedly.

FOLDER REPEAT:

The MP3 files contained in the selected folder are played back repeatedly. However, folders below the

However, folders below the selected folder are not played back.

DISC REPEAT:

All MP3 files are played back repeatedly.

DVD Operation using On-Screen Displays

When DISPLAY is pressed, On-Screen Displays show disc information (title/chapter/track number, elapsed playing time) and unit information (repeat play, Play mode).

- Press DISPLAY in Play or Stop mode to display "On-Screen Display."
 - Each press of DISPLAY changes the on-screen display as follows. (Please refer to page 54 or 55.)

Selected disc information Selected unit information Normal Screen

Note

DISPLAY button does not function while DVD TITLE MENU is displayed.

- 1) Press ▲▼ (or ◀▶) to select an item. 2) Press SET to set.
- Press ▲▼ to select the setting.
- 2) Press SET to set.

<Example of DVD>



- . For some functions the setting will be registered immediately without pressing SET.
- When numbers are displayed (e.g. title number), the number keys are also available.

To make corrections, press ▲▼ and SET repeatedly to move to error, then correct.

 Pressing ➤ is effective for elapsing time instead of the above buttons. Press ◀ repeatedly to delete the error, then correct.

To return to the normal screen, press CLEAR or **DISPLAY** repeatedly.

Notes

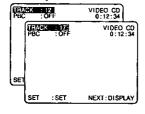
· When DISPLAY is pressed during playback of a Video CD with Playback control, the **number keys** are not available on the displayed screen. In this case, press **DISPLAY** again to remove the displayed screen.

Ready Checklist

Unit is in DVD mode, press DVD.

 When \(\sigma\) appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by the unit or the disc.

<Example of Video CD>



DVD Operation using On-Screen Displays (continued)

Detailed Descriptions of Each On-Screen Display

Disc information screen (for DVD)

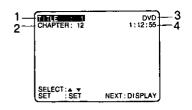
- 1. TITLE No.
 - Change the No. by pressing ▲▼* or the number keys, and press SET.
- 2. Chapter No.
 - Change the No. by pressing ▲▼ or the number keys, and press SET.
- 3. Disc currently being played
- 4. Elapsed playing time

The screen may be changed by selecting the elapsed time.

 Change the elapsed time by pressing number keys, and press SET.

(e.g.) $01:23:45 \quad 0 \to 1 \to 2 \to 3 \to 4 \to 5$

· This function does not work with some discs.



Disc information screen (for Video CD/ CD)

- A. Track No.
 - Change the No. by pressing ▲▼ or the number keys, and press SET.
- B. Playback control ON/OFF

[Video CD with playback control only]

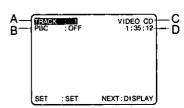
	Video CD menu play is displayed.
OFF	Video CD menu play is cleared.

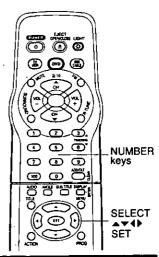
C. Disc currently being played

	Video CD	CD
--	----------	----

D. Elapsed playing time

- Track No. and elapsed playing time are not displayed during play started from menu of Video CDs with playback control.
- When appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by the unit or the disc.





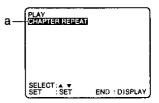
Detailed Descriptions of Each On-Screen Display

Unit information screen

Change the desired mode during play by pressing ▲▼, and press SET.

a. Repeat Play

DVD	CHAPTER REPEAT	TITLE REPEAT	REPEAT OFF
Video CD/CD	TRACK REPEAT	DISC REPEAT	REPEAT OFF



b. Play mode [Video CD/ CD only] (See page 53 or 54.)

PROGRAM PLAY	program play
RANDOM PLAY	random play
<u>-</u>	normal play

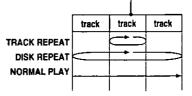


For your reference

CHAPTER/TITLE REPEAT PLAY (DVD)
 CURRENT PLAYBACK POSITION



TRACK/DISC REPEAT PLAY (Video CD/CD)
 CURRENT PLAYBACK POSITION



Note

• For repeat play in VCR mode, see page 36.

*Important: If a remote control button does not work when pressed, press the 🚜 , DVD button on the remote and try the button again.

You can prevent playback of DVDs in a specific rating level which may be unsuitable for children.

Some DVDs are encoded with a rating level. If the disc rating is higher (stricter) than the one you
preset, playback will be prohibited.

Caution

Discs not encoded with rating level will play even if the jacket states it is for mature audiences. For these discs, the DVD Lock Ratings will not work.

DVD Lock Ratings (DVD only)

Perform DVD Lock setting in TV mode. Enter your secret code to display LOCK menu. (Do "Secret Code" steps on page 40.)



- Press ▲▼* to select "DVD LOCK."
- Press SET to set "ON" or "OFF."
- "ON" → DVD Lock is activated.
- "OFF" → DVD Lock is deactivated.



- Press ▲▼ to select "CHANGE SETTINGS."
- 2) **Press SET** to display screen.



- Press ▲▼◀► to select rating level.
- 2) Press SET to select "LOCKED" or "UNLOCKED."

LEVEL 1 ; LOCK ALL:

Playback of all DVDs, CDs and Video CDs is prohibited. (Use to prohibit play of mature theme DVDs not encoded with rating level.)

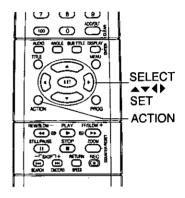
LEVEL 2: DVDs expressly for children can be played back. **LEVEL 3 to 7**:

DVDs for general audiences/children can be played back. (DVDs with mature content are prohibited.)

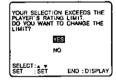
LEVEL 8 : NO LIMIT: (Factory preset)
All DVDs can be played back.

 Ratings which are highlighted in Green will be blocked; those not highlighted (white letters) will not be blocked.

4 Press ACTION three times to end setup.



<When DVD Lock is activated>



After DVD Lock is set and a blocked DVD is played, this message will appear. The message may differ depending on the disc.

To continue viewing a blocked program for now,

Press ▲▼ to select "YES" and SET.
Then, enter your 4-digit secret code.
When "NO" is selected, blocked
programs cannot be viewed.

To change DVD LOCK settings After entering your secret code in step 3 on page 40, select "OFF" to deactivate DVD Lock or change the rating level.

Settings for DVD Operation

Press ACTION in Stop mode to display MAIN MENU.

MAIN MENU

- 1) Press ▲▼◀► to select "DVD."
- 2) Press SET to display screen.

Once initial settings are done, they remain in memory (even after power off) until changed. This means the unit will always operate under the same conditions (especially DVDs) each time.

Ready Checklist

☐ Unit is in TV-VCR mode, press vch.



- Press ▲▼ to select an item.
- 2) Press SET to set.

DISC LANGUAGES (See below.)

Any languages offered on the disc can be set. If a language not offered is set, the original disc language will be selected.

AUDIO OUTPUT (See page 58.)

You can set the audio output that comes from the digital audio output terminal.

STILL MODE (See page 59.)

To select "FIELD" or "FRAME" to prevent jitter or to make small text or fine patterns clearly visible in a still picture. When "AUTO" is set "FIELD" or "FRAME" is selected automatically.

TV MODE (See page 59.)

To select whether the video material for a wide-screen will be played back in Pan & Scan style or in Letterbox style.

DISC LANGUAGES (DVD only)

To select and set the language of the audio soundtrack, subtitles, or title/DVD menus for all discs to be played.

DVD MAIN MENU

DISCH ANDUNGES
AUDIO OUTPUT
STILL MODE : AUTO
TV MODE : Letterbox

SELECT : A Y
SET : SET

- 1) Press ▲▼ to select "DISC LANGUAGES."
- 2) **Press SET** to display screen.
- DISC LANGUAGES

 AUDIO : English

 SUBTITIE : AUTO
 MENUS : English

 SELECT : SET
 END : ACTION
- Press ▲▼ to select an item.
- 2) Press SET repeatedly for desired language. (Please refer right.)

Press ACTION to redisplay DVD menu and go to step 3 to setup another item. Or, press ACTION three times to exit.

"AUDIO" selections

To select the audio soundtrack language. (factory preset: English)
English/Spanish/French
Original: Original disc language
OTHER ****: Other language selection*1

"SUBTITLE" selections

To select the subtitle language. (Factory preset: AUTO)

AUTO: Same language selected for "AUDIO"

- If language set for "AUDIO" is used in playback, subtitles will not appear.
- If another language is used during playback, the subtitles will appear in the language selected at "AUDIO" setup.

English/Spanish/French
OTHER ****: Other language selection*1

"MENUS" selections

(factory preset: English)
To select the language used in title
menus or DVD menus.

English/Spanish/French
OTHER ****: Other language selection*1

To enter OTHER **** code number, Press number keys (Please refer to language codes on page 63).

To make corrections, press

repeatedly to delete language code number, and correct.

*1 If the selected language is not offered, the original disc language is selected.

Settings for DVD Operation (continued)

AUDIO OUTPUT

Select the digital output to be output from the optical digital audio output connector of the unit.

Do steps 1 and 2 on page 57.

DVD MAIN MENU

- 1) Press A▼* to select "AUDIO OUTPUT."
- 2) Press SET to display screen.

		_
\bigcirc	AUDIO OUTPUT	٦
3	LEGM(DVD) OFF Dolby Digital : Bistream die OFF DRC OFF SUPPROUND OFF	
	SELECT : A W SET : SET END : ACTION	ر

- Press ▲▼ to select an item.
- 2) Press SET (See below.)

"LPCM (DVD)" selections

OFF: Linear PCM of less than 48 kHz/16 bit is output. When playing DVDs recorded in linear PCM of over 48 kHz/20 bit or 96 kHz, no digital audio is output. (Factory preset)

PCM: When playing DVDs recorded in linear PCM of 48 kHz/20 bit/24 bit or 96 kHz, digital audio converted to 48 kHz/16 bit is output. (Digital output of PCM audio is restricted to 48 kHz/16 bit or below for copyright protection.)

"Dolby Digital" selections

Bitstream: Dolby Digital bitstream (1ch-5.1ch) is

output. (Factory preset)

"dts" selections

OFF:

Bitstream: dts bitstream is output. (Factory preset) OFF:

No output.

No output.

"DRC (Dynamic Range Compression)" selections OFF: Normal audio range is selected. (Factory preset) For dynamic sound even at low volume, this is useful for late-night listening. [Dolby Digital DVDs

only].

"SURROUND" selections

Surround Sound creates the effect of sound coming from non-existent rear speakers even when only connected to a 2-channel stereo system.

OFF: No Surround Sound effect. (Factory preset)

ON: Surround Sound effect.

Press ACTION to redisplay DVD menu and go to step 2 to setup another item. Or, press ACTION three times to exit.

Type of amplifier to be connected	Recommended setting		
	LPCM (DVD)	Dolby Digital	dts
No amplifier is connected	OFF	OFF	OFF
AV amplifier (with digital audio input connector) without Dolby Digital/dts decoder	PCM*1	OFF*2	OFF*2
AV amplifier including Dolby Digital decoder	PCM*1	Bitstream	OFF
AV amplifier including Dolby Digital/dts decoder	PCM*1	Bitstream	Bitstream

- Make settings according to amplifier connected to optical audio output as shown in above table.
- repeatedly for output. When a dts decoder is not connected, to enjoy dts DVD, please select audio output other than dts at the dts DVD menu screen. Otherwise, there will be no sound from the unit speakers.
 - *1 Audio output from unit is converted to 48 kHz/ 16 bit in addition to audio from digital audio

To enjoy high quality sound at 48 kHz/20 bit / 24 bit or 96 kHz, connect the amplifier or decoder directly to the audio output connectors, not to the digital audio output connector. [Select "OFF" at the "LPCM (DVD)".]

- *2 When connecting an amplifier (with an optical digital input connector) which does not contain the Dolby Digital or dts decoder, be sure to select "OFF". If "Bitstream" is selected, starting DVD play may cause such a high level of noise as to be
- *3 When a dts decoder is connected, please select "Bitstream" in "dts". If "OFF" is selected, there will be no sound.

harmful to your ears and damage the

Notes

speakers.

- Turn off other surround effects when using this surround effect.
- For optimum effect, the distance between the unit and the listener should be about 3 or 4 times the distance between the right and left front speakers.

Set to reduce jitter in a displayed still picture or a motion picture.

Do steps 1 and 2 on page 57.

- DVD MAIN MENU
 DISC LANGUAGES
 AUDIO QUIPUT
 STILL MODE SEISED
 IV MODE Letterbox

 SELECT : SET
 END : ACTION
- 1) **Press ▲▼** to select "STILL MODE."
- Press SET repeatedly for mode. (See below)

AUTO: "FIELD" (Field still) or "FRAME" (Frame still) is

automatically selected during the still mode.

(Factory preset)

FIELD: "FIELD" (Field still) is always selected.

This setting will reduce jitter when compared

with "AUTO" on some discs.

FRAME: "FRAME" (Frame still) is always selected.

Some texts and fine patterns will be seen clearly when compared with "AUTO" on some discs.

3 Press ACTION twice to exit this mode.

Selecting TV MODE

Set the screen display style for wide-screen video material playback.

a Do steps 1 and 2 on page 57.



- 1) Press ▲▼ to select "TV MODE."
- Press SET repeatedly for mode. (See below.)

Pan & Scan : (Factory preset)

Wide screen video data is played in Pan & Scan style (left and right of screen is

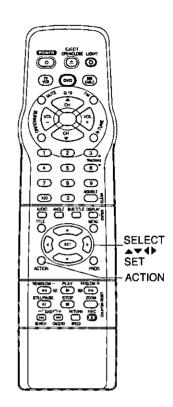
trimmed.)

Video data not formatted in Pan & Scanwill play in letterbox style.

Letterbox:

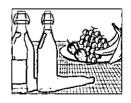
Wide screen video data is played in Letterbox style (top and bottom of screen has black margin).

Press ACTION twice to exit this mode.



Example

• Pan & Scan (Factory preset)



Letterbox



Before Requesting Service

Check the following points once again if you are having trouble with your unit.

Power	Correction
No power	 Completely insert Power Plug into an AC outlet. Set POWER button to ON.
Power turns itself off	 Auto power-off (shutoff) occurs after about 5 min. in DVD mode with no operation, or if there is no broadcast signal in TV or Playback mode. Turn the power back on. (P. 21, 37)
Monitor	Correction
No picture or sound	 Make sure your antenna system (TV or CABLE), is correctly set. (P. 11) Completely insert Power Plug into an AC outlet. Set POWER button to ON.
Poor picture with normal sound	 Adjust BRIGHTNESS, SHARPNESS, and PICTURE controls in the SET UP Video Adjustment. (P. 47)
Poor sound with normal picture	Adjust VOLUME control. (P. 22)
Poor TV reception	Adjust SHARPNESS and PICTURE controls in the SET UP Video Adjustment. (P. 47)
No color or poor color	Adjust TINT and COLOR controls in the SET UP Video Adjustment. (P. 47)
Ghost (multiple) images	Install a directional antenna.
TV programs cannot be watched	Make sure the selected channel is in unit's memory. (P. 16)
Channel cannot be selected	Only the channel begin recorded can be viewed on this unit.
VCR	Correction
TV program cannot be recorded	Make sure your antenna system (TV or CABLE), is correctly set. (P. 11) Make sure cassette record tab is intact. (P. 4)
Timer recording cannot be performed	 Check that clock is set to current time and date. Make sure DSS/CABLE box (if used) is left on and tuned to channel to be recorded. Set recording Start/Stop times correctly. (P. 30, 31) Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during a Timer Recording, even after power is restored.
No playback picture, or the playback picture is noisy or contains streaks	Adjust TRACKING control in either direction. (P. 6) Try Head Cleaning. (P. 6)
VCR cannot be controlled	Make sure VCR LOCK is set to off. (P. 39)
Remote Control	Correction
Unit cannot be controlled	 Aim Remote directly at the remote sensor on the unit. (P. 10) Avoid any object blocking signal path. Inspect the remote batteries. (P. 4) Make sure VCR LOCK is set to off. (P. 39) Exposing unit remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION, PLAY, SELECT, SET POWER, etc. buttons cannot be selected	Press Vg for TV-VCR mode. (P. 32) Press DVD for DVD mode. (P. 32) Press FM for FM mode. (P. 32) Check remote batteries.

DVD/Video CD/CD	Correction
Play fails to start even when PLAY is pressed	This unit cannot play discs other than DVDs, Video CDs and CDs. The disc may be dirty and require cleaning.
Play starts but then stops immediately	Be sure disc is installed with label side up.
Picture is distorted during rapid advance or rapid reverse	The picture will be somewhat distorted at times: this is normal.
No Forward/Reverse search play	Some discs may have sections which prohibit Forward/ Reverse search. (P. 21)
Play does not start even when title is selected	Confirm the "DVD LOCK" setting. (P. 56)
Audio soundtrack and/or subtitle language is not the one selected at the initial settings	If the audio soundtrack and/or subtitle language selected at DVD initial settings does not exist on the disc, it will not be accessible.
No subtitles	Subtitles appear only when available on disc. Select "ON" at the "Subtitle Language" section (P. 48) to display subtitles.
Alternative audio soundtrack (or subtitle) language cannot be selected	Alternative language cannot be selected with discs which do not contain more than one language. For some discs, alternative language cannot be selected with the AUDIO or SUB TITLE button. Try selecting it from the DVD menu if available.
Angle cannot be changed	This function is dependent on software availability. Even if disc has multiple angles, they may be recorded for specific scenes only (ANGLE Indicator on unit lights up). (P. 49)
Miscellaneous	Correction
Video cassette cannot be inserted	Insert the cassette window side up; record tab facing you.
Video cassette cannot be removed	Completely insert Power Plug into an AC outlet.
Eject does not function or insertion cannot be done	Turn the POWER off and then on, and try ejecting or inserting the tape again.
Video cassette ejects when a recording is started, or the power is turned off for timer recording	Make sure cassette record tab is intact. (P. 4)
The disc cannot be removed	 First, unplug unit. Then, prepare a rigid wire (e.g. an extended paper clip, etc.) and, applying moderate force, insert it straight into the hole at the base of the tray. The tray will eject a little. Now, pull the tray all the way out and remove the disc. (P. 9)
In Stop mode, the VCR motor (CYLINDER) continues to rotate	To enable Quick Play mechanism, the VCR cylinder will rotate for about 3 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode.

If you cannot resolve the problem, please call the Customer Call Center for product assistance at 1-800-211-PANA (7262.)

To locate an authorized servicenter, please call toll free 1-800-211-PANA (7262.) or send e-mail to : consumerproducts@panasonic.com

Warning and Instruction Displays

These displays will alert you of a missed operation or provide further instructions.

OSD	Caution	Page
PLEASE SET CLOCK BEFORE PROGRAMMING	If you attempt to set or review a Timer Recording or set the On-Timer and the Clock is not set	16, 17
CHECK CASSETTE RECORD TAB	If you press REC, and a cassette is inserted with no record tab	4, 18
TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC	If you press STOP during a Timer Recording	31
NO CASSETTE PLEASE INSERT A CASSETTE	If you press PLAY, FF, REW, or REC without a cassette inserted	18
PLEASE PREPARE FOR TIMER REC	If the unit is not in Stop mode or a cassette with record tab is not inserted two minutes before a Timer Recording is about to begin	30, 31
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END: PLAY	If head cleaning becomes necessary while playing back a tape	6
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the unit is in VCR Lock mode	39
PLEASE CHECK THE DISC, AND FOR STAINS OR SCRATCHES ON DISC	If you press PLAY, or the unit reads data from a stained or scratched disc in DVD mode. Also, if the type of disc is other than DVD, Video CD or CD	7
IT IS PROHIBITED TO COPY DVD/ VIDEO CD/CD TO VHS	If you press REC in DVD mode	18, 19

Language Code List

Enter the appropriate code number for the initial settings "AUDIO", "SUBTITLE" and/or "MENUS" (see page 57).

Code	Language
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Ameharic
6582	Arabic
6583	Assamese
6588	Aymara
6590	, Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengali; Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
6978	English
6979	Esperanto
6983	Spanish
6984	Estonian
6985	Basque
7065	Persian
7073	Finnish
7074	Fiji

Code	Language	
7079	Faroese	
7082	French	
7089	Frisian	
7165	Irish	
7168	Scots Gaelic	
7176	Galician	
7178	Guarani	
7185	Gujarati	
7265	Hausa	
7273	Hindi	
7282	Croatian	
7285	Hungarian	
7289	Armenian	
7365	Interlingua	
7378	Indonesian	
7383	Icelandic	
7384	Italian	
7387	Hebrew	
7465	Japanese	
7473	Yiddish	
7487	Javanese	
7565	Georgian	
7575	Kazakh	
7576	Greenlandic	
7577	Cambodian	
7578	Kannada	
7579	Korean	
7583	Kashmiri	
7585	Kurdish	
7589	Kirghiz	
7665	Latin	

Code	Language		
7678	Lingala		
7679	Laothian		
7684	Lithuanian		
7686	Latvian, Lettish		
7771	Malagasy		
7773	Maori		
7775	Macedonian		
7776	Malayalam		
7778	Mongolian		
7779	Moldavian		
7782	Marathi		
7783	Malay		
7784	Maltese		
7789	Burmese		
7865	Nauru		
7869	Nepali		
7876	Dutch		
7879	Norwegian		
7982	Oriya		
8065	Panjabi		
8076	Polish		
8083	Pashto, Pushto		
8084	Portuguese		
8185	Quechua		
8277	Rhaeto-Romance		
8279	Romanian		
8285	Russian		
8365	Sanskrit		
8368	Sindhi		
8372	Serbo-Croatian		
8373	Singhalese		

Code	Language			
8375	Slovak			
8376	Slovenian			
8377	Samoan			
8378	Shona			
8379	Somali			
8381	Albanian			
8382	Serbian			
8385	Sundanese			
8386	Swedish			
8387	Swahili			
8465	Tamil			
8469	Telugu			
8471	Tajik			
8472	Thai			
8473	Tigrinya			
8475	Turkmen			
8476	Tagalog			
8479	Tonga			
8482	Turkish			
8484	Tatar			
8487	Twi			
8575	Ukrainian			
8582	Urdu			
8590	Uzbek			
8673	Vietnamese			
8679	Volapük			
8779	Wolof			
8872	Xhosa			
8979	Yoruba			
9072	Chinese			
9085	Zulu			

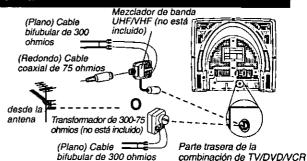
Spanish Quick Use Guide/Guía para rápida consulta

Conexión de la antena externa

Desenganche la antena del televisor o de la videograbadora que tuviera anteriormente y conéctela a la parte trasera del registrador Combinación de TV/DVD/VDR, como se muestra en el diagrama. Si el sistema de su antena tiene conductores UHF y VHF separados, usted necesita un mezclador de banda UHF/VHF (no viene con el equipo.)

ADVERTENCIA:

Al utilizar cables coaxiales RF del "Tipo tuerca", solo debe apretarse con los dedos. Si se aprieta demasiado los cables pueden resultar dañados.



Conexiones de TV cable

Sin un decodificador de TV cable Podrá:

· grabar o ver canales sin codificar.

No Podrá:

- · grabar o ver canales codificados.
- ver otro canal que no sea el seleccionado para cualquier tipo de grabación.

Parte trasera de la combinación de TV/DVD/VCR Antena o Cable TV VHF/ UHF

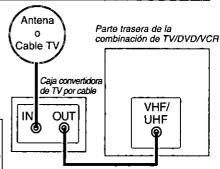
Con un decodificador de TV cable Podrá;

 grabar o ver cualquier canal incluso los canales codificados.
 NOTA: El canal deberá ser seleccionado en el decodificador de TV cable.

No Podrá:

- ver otro canal que no sea el seleccionado para cualquier tipo de grabación.
- hacer una grabación con temporizador de un canal a menos que lo seleccione en el decodificador de TV cable.

Para ver y grabar un canal codificado/ no codificado
Sintonice el canal del Registrador de la combinación de VCR/TV en
el canal de salida de la caja convertidora de televisión por cable
(por ejemple el canal 3.) Después, seleccione en el decodificador de
TV cable el canal que se quiera ver o grabar.



Con un receptor DSS

Podrá;

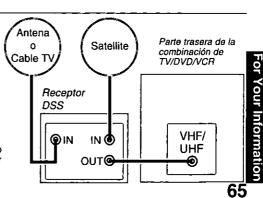
 grabar o ver cualquier canal incluso los canales codificados.

NOTA : El canal deberá ser seleccionado en el receptor DSS.

No Podrá:

- ver otro canal que no sea el seleccionado para cualquier típo de grabación.
- hacer una grabación con temporizador de un canal a menos que lo seleccione en el receptor DSS.

NOTA : El receptor DSS debe estar apagado para ver programas desde un decodificador de TV cable o desde la antena. Consulte el manual del receptor DSS para más detalles.



Spanish Quick Use Guide/Gú a para á pida consulta

Realizando Configuracion Inicial

Presione $_{VCR}^{TV}$ para modo del TV-VCR

Tape el cable electrico de la unidad en el enchufe de pared de la CA.

POWER de la prensa en el telecontrol o la unidad. La unidad se adelanta y comienzo auto del canal y del reloj.

CH AUTO SET PROCEEDING

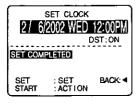
 Si usa convertidor de cable, enciendala y seleccione el Servicio Publico de Canales de Television (PBS) en su horario de uso o tiempo de su zona. Si utiliza receptor DSS este debe de estar apagado.

AUTO CLOCK SET
PROCEEDING
CANCEL : PRESS STOP KEY

Selecciones se realizaran automaticamente cuando la configuracion termine, la pantalla siguiente aparecera.

2/ 6/2002 WED 12:00PM DST:ON SETTING: CH 10 AUTO CLOCK SET COMPLETED

Si "AUTO CLOCK SET IS INCOMPLETE" aparece en pantalla, coloque el tiempo usando el procedimiento manual (MANUAL CLOCK SET), vealo enseguida.



Ajuste Manual del Reloj

Si el ajuste automático del reloj no se ha completado, ajuste el reloj manualmente de la siguiente manera:

- Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú RELOJ.
- Presione ▲▼ para seleccionar el mes y SET para ajustar. De la misma forma, seleccione y ajuste la fecha, año, hora y DST (Hora de Verano).
- Presione dos veces la tecla ACTION para poner el RELOJ en marcha y salir.

Ajustar de nuevo el reloj

Presione ACTION para exhiba el menú.

MENU PRINCIPAL

SOLUTION

CANAL RECOUNTS

ELEGIR: A V T T

FLAR : ACTION

Presione

▲▼◀▶ para
seleccionar
"RELOJ".
Presione
SET.

FIJAR RELOJ

FIJACION AUTOMATICA
MANUAL
AUSTE ZONA HORA: 0

ELEGIR: A V
FIJAR: SET
TERMINAR: ACTION

Presione

▲▼ para
seleccionar
"MANUAL"
y luego
presione SET.



Presione

▲▼ y SET
para
seleccionar
y ajustar la
hora y la
fecha.

Presione ACTION dos veces para que el reloj comience a funcionar y salir desde este modo.

Inserte un cassette.

· El videograbador combinado se enciende automáticamente.

Presione PLAY.

 La reproducción comienza automáticamente si el cassette no tiene la lengüeta para prevención de grabación.

Para encontrar una escena en particular Búsqueda hacia adelante → Presione FF/SLOW+ Búsqueda hacia atrás → Presione REW/SLOW-

■ Para ver una imagen fija (congelada) → Presione STILL/PAUSE

■ Para ver en cámara lenta → Presione FF/SLOW+ o REW/SLOW- en el modo de imagen fija

■ Para ver imágenes cuadro a cuadro → Presione STILL/PAUSE en el modo de imagen fija

■ Para parar → Presione STOP

■ Para rebobinar la cinta → Presione REW/\$LOW-

■ Para hacer avanzar la cinta rápidamente → Presione FF/SLOW+

■ Para expulsar el cassette → Presione EJECT en el control remoto o STOP/EJECT en el videograbador combinado

Operaciones básicas para la grabación

Inserte un el cassette con la lengüeta para prevención de grabado.

 El videograbador combinado se enciende automáticamente.

Seleccione el canal.

Presione CH ▲▼ o las teclas numéricas correspondiente.

Seleccione la velocidad de grabación. Presione SPEED.

SP = reproducción normal LP = reproducción larga

SLP = reproducción super larga

 La velocidad seleccionada debe aparecer en la pantalla.

Comience la grabación.

Presione REC.

horas.)

- Para editar partes no deseadas de una grabación, presione STILL/PAUSE para hacer una pausa durante la grabación.
- No podrá ver otro canal durante la grabación.

■ Para parar → Presione STOP.

El videograbador combinado deja de grabar a una hora prefijada. (Grabación de un toque) Presione REC repetidamente para ajustar la hora de grabación (30 min - 4

Grabación con temporizador

Exhiba FIJAR PROGRAMACION. Presione PROG.

FIJAR PROGRAMACION TEMPORI ZADOR ENCENDIDO AUTOMATICO TEMPORIZADOR-DORMIR:00 FIJAR : SET TERMINAR: PROG

Exhiba TEMPORIZADOR.

 Presione ▲▼ para seleccionar.

2) Presione SET para exhibir.

 Si ya existe un programa en la memoria, presione ▲▼ y SET para seleccionar un número de programa sin usar.



Aiuste la fecha de grabación.

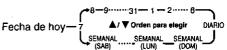
 Presione ▲▼ para seleccionar.

Presione SET o ◀ para ajustar.

1 - 31 = Grabación única

DIARIO = a la misma hora de lunes a viernes

SEMANAL = a la misma hora una vez a la semana



Repita el paso 3 para ajustar: hora de comienzo, hora de parada, canal (o LINEA para una fuente exterior), velocidad (SP, LP, SLP).

P FE INIC PARADA CA VEL 1 DI 9:00p 12:00s 08 SP CANCELAR: ADD/DLT ELEGIR 1-8: A T ENTRAR: SET TERMINAR: PROG

Termine el programa. Presione PROG Para introducir más programas. presione ▲▼ v SET para seleccionar v

ajustar el número de programa en blanco, y luego repita los pasos 3.

Salga de este modo. Presione PROG dos veces

Si está usando un decodificador de TV cable, asegúrese que se encuentra en el canal deseado y que la alimentación queda conectada para grabar con temporizador.

El indicador PROG TIMER se enciende en el videograbador combinado.

Spanish Quick Use Guide/Guía para rápida consulta

Operaciones básicas del DVD

Presione POWER en el control remoto o el aparato.

Presione DVD.

🔵 Introducir un disco.

- Presione OPEN/CLOSE.
 Ponga un disco en la bandeia de disco.
- Sujete el disco sin tocar ninguna de sus superficies, póngalo con el lado donde esté impreso el título hacia arriba, alinéelo con las guías y póngalo en su posición apropiada. Disco de 3"(8 cm) Disco de 5" (12 cm)

4 Iniciar la reproducción Presione PLAY.

La bandeia del disco se cierra automáticamente.

 Si está usando un DVD interactivo (Interactive DVD) o un Vídeo CD con contol de reproducción (playback control) y aparece un menú de títulos (TITLE MENU) en la pantalla, siga al paso 5.

Elija el artículo deseado.

- 1) Presione ▲▼◀ ► o las teclas numéricas.
- Presione SET para la reproducción.
 usa las teclas numéricas, la reproducción comienza automáticamente.
- 6 Parar la reproducción.
 Presione STOP.

7 Expulsar el disco. Presione OPEN/CLOSE.

Para buscar una escena particular
 Búsqueda hacia adelante

Presione FF/SLOW+ en el modo de reproducción.

Búsqueda hacia atrás

Presione REW/SLOW- en el modo de reproducción. (Para liberar, presione PLAY)

 Para saltar un capítulo o una pista Salto hacia adelante

Presione SKIP ►►I en el modo de reproducción.
Un capítulo (DVD) o una pista (Vídeo CD/CD) se salta cada ves que se oprime la tecla.
Salto hacia atrás

Presione I◀◀ SKIP en el modo de reproducción.

Para ver una imagen fija
 Presione STILL/PAUSE durante la reproducción.
 (Para liberar, presione PLAY)

 Para ver imágenes cuadro a cuadro (DVD/Vídeo CD)

Presione STILL/PAUSE en el modo de imagen fija. La imagen avanza un cuadro cada vez que presiona la tecla. (Para volver a la reproducción normal, presione PLAY.)

Para ver en cámara lenta (DVD/Vídeo CD) Presione FF/SLOW+ o REW/SLOW- en el modo de imagen fija. (Para liberar, presione PLAY)

Funcionnamiento del DVD utilizando visualizaciones en pantalla

Cuando se presiona DISPLAY, la visualización en pantalla muestra la información del disco (título / capítulo / número de lista, tiempo transcurrido de reproducción, audio / idioma del subtitulo, y ángulo) e información (repetir la reproducción, modo reproducción, Karaoke vocal encendido / apagado, etc.).

Visualizar Visualizaciones en pantalla.

Presione DISPLAY en el modo reproducción o parada.

- Cada vez que se presione DISPLAY, la visualización en pantalla cambia como se muestra a continuación.
- Información seleccionada del disco

 Información seleccionada de la unidad

 Pantalla normal

Selección del ítem deseado 1)Presione ▲▼ (o ◀►) para

seleccionar.

2)Presione SET para ajustar



Selección del ajuste deseado

- 1)Presione

 Ay para
 seleccionar.
- 2)Presione SET para aiustar.

<Ejemplo de Vídeo CD>



Para volver a la pantalla normal, Presione repetidamente CLEAR o DISPLAY. El idioma de los subtítulos seteccionado al hacer las fijaciones iniciales se puede cambiar por otro idioma diferente, si éste se encuentra disponible.



Presione SUBTITLE durante la reproducción.

reproducción.
Cuando no haya subtítulos grabados, "-" se visualizará en lugar del número de idioma.



Seleccionar el idioma deseado.

- Presione ▲▼ para seleccionar idioma.
- Presione ► (o ◄) para ajustar.
- 3) Presione ▲ (o ▼)
 para seleccionar
 "ACTIVO" o
 "INACTIVO."

Cambio del idioma de la pista de sonido [DVD solamente]

El idioma de la pista de sonido seleccionado al hacer las fijaciones iniciales se puede cambiar por otro idioma diferente, si éste se encuentra disponible.



Visualizar la pantalla AUDIO.

Presione AUDIO durante la reproducción.



Seleccionar el idioma deseado.

Presione ▲▼ para seleccionar idioma.

Visión desde otro ángulo [DVD solamente]

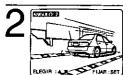
Algunos discos DVD tienen escenas que han sido filmadas simultáneamente desde un número de ángulos diferentes. Con estos discos, la misma escena podrá verse desde cada uno de estos ángulos diferentes

utilizando el botón ANGLE.



Visualizar la pantalla de ángulo.

Presione ANGLE durante la reproducción.



Seleccionar el ángulo deseado.

Presione ▲▼ para seleccionar.

Selección de vocal para los discos de Karaoke [DVD/Video CD]

Presione AUDIO durante la reproducción.



DVD Karaoke (1 vocal)

DVD Karaoke (2 vocales)

Seleccionar el ajuste deseado.

- Presione ▲▼ (o ◀►) para seleccionar.
- Presione ► (o ◄) para ajustar. (DVD solamente)

VOCAL ON ↔ VOCAL OFF VOCAL V1 + V2 → VOCAL V1

VOCAL OFF ← VOCAL V2

Video CD

Utilización de un menú de títulos [DVD solamente]

Algunos discos con películas, por ejemplo, vienen con dos o más títulos. Si el disco tiene un menú de títulos grabados, el botón TTTLE podrá utilizarse para seleccionar el título de la película.

Presione TITLE durante la reproducción.

Ahora se visualiza una lista de los títulos del disco.



Seleccionar el título deseado.

- Presione ▲▼ ◀► o las teclas numéricas seleccionar.
- 2) Presione SET o PLAY.

Utilización de un menu de DVD [DVD solamente]

Algunos discos DVD tienen estructuras únicas de menús llamadas menús DVD. Por ejemplo, los DVDs programados con un contenido complejo proporcionan menús guia, y los grabados con varios idiomas proporcionan menús para audio e idiomas de subtítulos. Aunque los contenidos de los menús DVD y la operación cambian de disco a disco, a continuación se explica la operación básica cuando se utilitza esta característica.

Presione MENU durante la reproducción.
El menú de DVD introducido en el disco se visualiza ahora.

DVD MENU

1. SUBTITLE

2. AUDIO

3. ANGLE

Seleccionar el ítem deseado.

- Presione ▲▼ ◀► o las teclas numéricas para seleccionar.
- 2) Presione SET o PLAY.

Ampliación de la imagen [DVD solamente]

Durante la reproducción de un DVD, puede ampliar partes específicas de una imagen y seleccionar la relación de zoom usando el botón ZOOM del control remoto.

Seleccione el tamaño de la imagen.

Presione ZOOM repetidamente para cambiar el tamaño de la imagen como se indica a continuación:



Use los botones ▲ y ▼ para desplazar la posición hacia atriba o hacia abajo.
 Use los botones ◀ y ▶ para desplazar la posición hacia la izquierda o hacia la recerta.

Spanish Quick Use Guide/Guía para rápida consulta

Reproducción programada [Vídeo CD/CD]

Puede usted programar pistas específicas y el orden de reproducción.

Vídeo CD o CD es insertado en el modeo DVD.

Visualizar MAIN MENU.

Presione ACTION en el modo parada.



Vísualizar la pantalla DVD.

- Presione ▲▼◀▶ para seleccionar "DVD.
- 2) Presione SET para visualizar.



Seleccionar "MODO DE REPRODUCCION."

- Presione ▲▼ para seleccionar.
- Presione SET para visualizar.



BORRAR EL ULTIMO BORRAR TODO

Seleccionar "REPRODUCCION DE PROGRAMAS."

- 1) Presione ▲▼ para seleccionar.
- Presione SET para visualizar.



Seleccionar el número de la pista deseada. (Se visualizan los números de la pista del disco).

- 1) Presione ▲▼◀▶ para seleccionar.
- Presione SET para seleccionar. Repita el paso 5 para
- seleccionar otra pista.
- La pista seleccionada se añade a la parte derecha.



Comenzar "REPRODUCCION DE PROGRAMAS."

- 1) Presione ▲▼◀▶ para seleccionar "INICIAR."
- Presione SET.
- La reproducción comienza en la secuencia programada.
- Para cancelar, pulsar STOP durante la reproducción y luego presione CLEAR.

Reproducción arbitraria [Vídeo CD/CD]

Las pistas se reproducen de forma arbitraria.

Repita los pasos 1-3 de la página anterior.

MODO DE REPRODUCCION RODUCCION DE PROGRAMAS

Seleccionar "REPRODUCCION ALEATORIA."

- Presione ▲▼ para sefeccionar. 2) Presione SET.
- Comienza la reproducción arbitraria.
- Para cancelar, presione STOP durante la reproducción y luego presione CLEAR.

Fijaciones iniciales

Visualizar MAIN MENU. Presione ACTION en el modo de parada.

Visualizar la pantalla DVD.

1) Presione A▼◀▶ para seleccionar.
2) Presione SET.

Seleccionar el artículo deseado.

Presione ▲▼ para seleccionar.

2) Presione SET.

IDIOMAS DEL DISCO

Todos los idiomas ofrecidos en el disco pueden ser ajustados, Si el idioma ajustado no es ofrecido en el disco, se seleccionará el idioma original del disco.

SALIDA DE AUDIO

Puede usted ajustar la salida audio procedente del terminal de salida audio digital.

DETENER RASTREO

Para seleccionar "CAMPO" o "CUADRO" para prevenir inestabilidad o para permitir ver textos pequeños o patrones finos claramente en el modo de imagen fija.

4:3 PREFERENCIA

Para seleccionar si el material del vídeo para pantalla ancha será vuelto a reproducir en el estilo Pan&Scan o en el estilo Letterbox en la pantalla.

Seleccionar el artículo deseado. Presione ▲▼ para seleccionar.

- 2) Presione SET.

Volver a visualizar el menú de DVD para continuar el ajuste.

Presione ACTION y pase al paso 3 para ajustar otro ajuste o, para salir, presione ACTION tres veces.

Selección de IDIOMAS DEL DISCO [DVD solamente]

Seleccione "AUDIO" Inglés / Español / Francés : (Filación de fábrica : inglés)

Original: Se seleccionará el idioma original de cada

OTRO **** : Se puede seleccionar el otro idioma.

Seleccione "SUBTITULO"

AUTO:

Se seleccionará el mismo que fue seleccionado en la preparación de "AUDIO". (Fijación de fábrica)

 Si el idioma seleccionado en la preparación de "AUDIO" se utiliza durante la reproducción, los subtitulos no apareceran.

· Si se utiliza otro idioma durante la reproducción, los subtítulos aparecerán en el idioma seleccionado en la preparación de "AUDIO"

Inglés / Español / Francés

OTRO ****: Se puede seleccionar el otro idioma.

Seleccione "MENU"

Inglés / Español / Francés : (Fijación de fábrica : inglés) OTRO **** : Se puede seleccionar el otro idioma.

Selección de SALIDA DE AUDIO

Seleccione "LPCM(DVD)"

INACTIVO: Por el conector de salida de audio

digital solamente sale PCM lineal de 48 kHz/16 bits. Durante la reproducción del DVD grabado en el PCM lineal de 48 kHz/20 bits o 96 kHz, no sale audio digital. (Fijación de

fábrica)

PCM: Durante la reproducción del DVD

grabado en el PCM lineal de 48 kHz/ 20 bits/24 bits o 96 kHz, sale audio digital convertido a 48 kHz/16 bits. (La salida digital de audio PCM está restringida a 48 kHz/16bits o menos para proteger los derechos de autor.)

Seleccione "Dolby Digital"

Sale un flujo de bits Dolby digital Bitstream:

(2ch-5.1ch). (Fijación de fábrica)

INACTIVO: No hay salida de audio.

Seleccione "dts"

Bitstream : Sale un flujo de bits dts. (Fijación de

fábrica)

INACTIVO : No hav salida de audio.

Selectione "DRC (Dynamic Range Compression)"

INACTIVO: Se selecciona el margen de audio

normal.

(Fijación de fábrica)

ACTIVO: Seleccione este ajuste para disfrutar

de un sonido dinámico incluso a bajo volumen. Esto es muy útil para escuchar durante la noche.

[Esta función sólo se activa con DVDs

Dolby Digital.]

Seleccione "SURROUND"

El sonido envolvente crea el efecto de sonido que procede de altavoces que parecen ester en la parte de atrás aún cuando solo se ha conectado a un sistema estéreo de 2 canales.

INACTIVO : No efecto de sonido envolvente.

(Fijación de fábrica)

ACTIVO: Efecto de sonido envolvente.

Selección de DETENER RASTREO

AUTO: Durante el modo de imagen fija se

seleccionarán automáticamente "Campo fijo" o "Cuadro fijo" (Fijacion

de fabrica)

CAMPO: Seleccione este ajuste cuando ocurra

> "distorsión" en las imagenes, incluso cuando se haya seleccionado

"AUTO".

CUADRO: "Cuadro fijo" es siempre seleccionado.

Seleccionar este ajuste cuando no se puedan ver claramente texto pequeño o patrones finos incluso cuando esté

seleccionado "AUTO".

Selección de 4: 3 PREFERENCIA

Pan&Scan: Datos de la pantalla ancha de vídeo

son reproducidos en el estilo Pan & Scan (la parte derecha e izquierda de la pantalla son recortadas). (Fijación de fábrica)

 Datos de vídeo no formateados en Pan & Scan serán reproducidos en el

estilo letterbox.

Letterbox : Datos de la pantalla ancha de vídeo

son reproducidos en el estilo Letterbox (la parte de arriba y abajo de la pantalla tienen un margen

negro).

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Limited Warranty

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA One Panasonic Way Secaucus, New Jersey 07094 PANASONIC SALES COMPANY, DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO, INC., AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic/Quasar Video Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product	Parts	Labor	Service	Contact Number
Camcorder	One (1) Year (except CCD Image Sensor) CCD Image Sensor - 6 (Six) Months	Ninety (90) Days Ninety (90) Days	Carry-In or Mail-In	1-800-211-PANA(7262)
DVD/VCR Deck, A/V Mixer	One (1) Year	Ninety (90) Days	Carry-In or Mail-In	1-800-211-PANA(7262)
TV/VCR, TV/DVD, TV/DVD/VCR Combination	One (1) Year (except CRT) CRT - Two (2) Years	Ninety (90) Days Ninety (90) Days	Carry-In: 21" CRT and Smaller In-Home or Carry-In: 22" CRT and Larger	1-800-211-PANA(7262)
TV/HDR Combination	One (1) Year (except CRT) CRT - Two (2) Years	Ninety (90) Days Ninety (90) Days	In-Home or Carry-In	1-888-843-9788
Rechargeable Batteries (in exchange for defective item)	Ten (10) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)
Tape (in exchange for defective item)	Five (5) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)
Memory Cards (in exchange for defective item)	Ninety (90) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product or arrange for in-home service, as applicable, during the warranty period.

If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-In, Mail-in or In-Home Service

For Carry-In, Mail-In or In-Home Service (as applicable) in the United States call toll free contact number listed above or visit Panasonic Web Site: http://www.panasonic.com

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

In-Home service, if applicable, requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain inhome repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY

BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer, loss of media or images, data or other memory or recorded content. The items listed are not exclusive, but are for illustration only.)

ALL EXPRESS AND MPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY. ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. It a problem with this product develops during or affect the warranty period, you may

state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE (INCLUDING COST OF AN IN-HOME SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:

1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST. or send e-mail: consumerproducts@panasonic.com

Web Site: http://www.panasonic.com You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

Accessory Purchases:

1-800-332-5368 (Customer Orders Only)

Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032 (Monday-Friday 6 am-5 pm; Saturday 6 am-10:30 am, PST) (Visa, MasterCard, Discover Card, American Express, Check)

Service in Puerto Rico

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