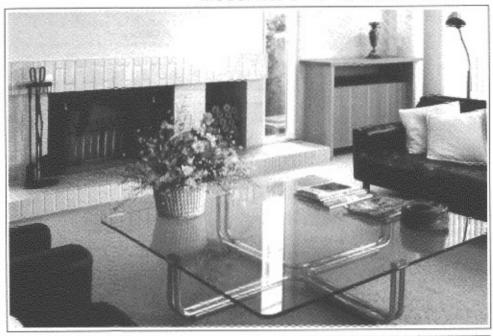


Omnivielan VIIS

Panasonic[®]

TV/DVD/VCR Combination Operating Instructions

Model No. PV-DM2791



- Initial Setup and Connection Procedures are on pages 14 to 17.
- SELF-DEMO Procedure is on page 4.













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.

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

LSQT0454A

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
- 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:

- a. Never cover ventilation slots while unit is ON, or operate unit while placed on a bed, sofa, rug, or other soft surface.
- b. 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 titted 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

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 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.

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 doth 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

1 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.

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the WHS mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

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 REPAIR 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 NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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

FCC Caution: To assure continued compliance, (example- use only shielded interface cables when connecting to other devices.) Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.



CAUTION: TO HEDUCE THE HISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO OUALIFIED SERVICE PERSONNEL



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.



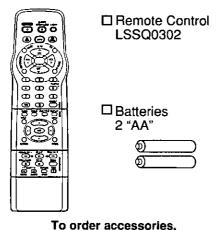
Before Using

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-DM2791		
Serial No.		

Accessories



SELF-DEMO Mode

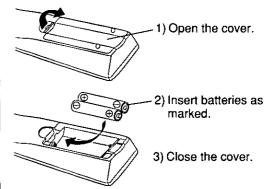
call toll free 1-800-332-5368.

With Power ON, press PLAY/REPEAT on the unit for 7 seconds to deactivate the SELF-DEMO Mode.

Repeat this to display

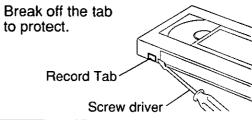
demo screen.

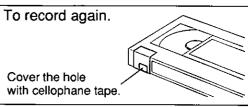
Loading the Batteries



- □_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 [VHS] 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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Information (Unit, Cassette, Disc)

Head Cleaning

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

Head Clog Sensor During playback this

remote or unit.

screen appears if clogging is detected. To remove screen, press PLAY on the 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 or authorized Service Center. (See Page 66.)

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 fitter.

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

Video Recording System: 4 rotary heads helical

Audio Track:

2 channel (Hi-Fi Audio Sound)

Tuner **Broadcast Channels:**

CABLE Channels:

VHF 2 ~ 13, UHF 14 ~ 69

scanning system

1 track (Normal)

Midband A through I (14 ~ 22) Superband J through W (23 ~ 36) Hyperband AA ~ EEE (37 ~ 64) Lowband A-5 ~ A-1 (95 ~ 99)

Special CABLE channel 5A (01)

Ultraband 65 ~ 94, 100 ~ 125

FM Radio

Band range: General Power Source:

Power Consumption:

Television System: Speaker: Operating Temperature: Operating Humidity:

Weight: Dimensions:

Discs played

(1) DVD-VIDEO disc

87.5 ~ 108.1 MHz

120V AC, 60 Hz Power On Approx. 170 watts

Approx. 5.5 watts EIA Standard NTSC color

Power Off

2 pieces 5 °C ~ 35 °C (41 °F ~ 95 °F) 10 % ~ 75% 41.5 kg (91.5 lbs.)

688 (W) x 653 (H) x 550 (D) mm 27-1/16" (W) x 25-11/16" (H) x 21-5/8" (D)

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

5" (12 cm) double-sided,

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

3" (8 cm) single-sided. double-layer 3" (8 cm) double-sided, double-layer

(one layer per side) (2) Compact disc 5" (12 cm) disc 3" (8 cm) disc

Optical connector Wave length: 655 nm (DVD)

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

(CD-DA, VIDEO CD) Digital audio output: Optical digital output:

Pickup:

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 CD-RW
- Do not try to play a Photo CD or CD-R.



📻 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).

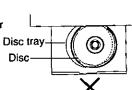
Disc Handling

Handling precautions

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

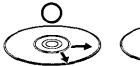
- Do not write on label side of disc.
- Never use record cleaning sprays, benzine, thinner, static electricity prevention liquids, or any other solvent.
- Be careful not to drop or bend disc. · Do not place more than
- 1 disc on disc tray. Do not try to close disc tray when disc is not
- properly placed.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

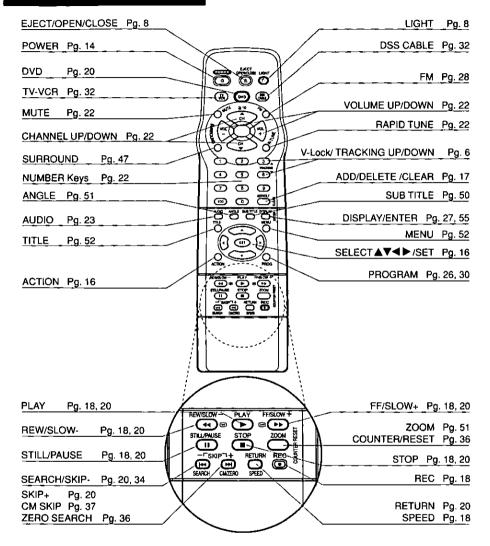
- exposed to direct sunlight.
- that are humid or dusty.
- near heat (i.e. heater, radiator, etc.).

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



Universal Light Tower® Illuminated Remote Control

LIGHT button:

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

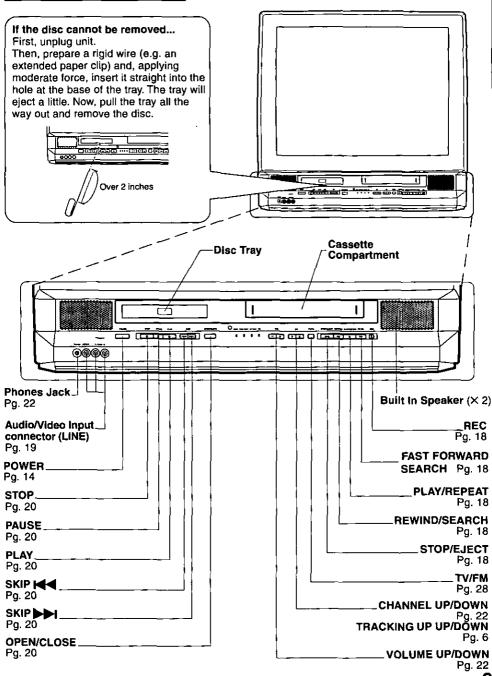
If no button is pressed in 5 seconds, the light goes out to conserve the battery.

EJECT/OPEN/CLOSE button:

When this button is pressed in TV-VCR mode, the tape is ejected.

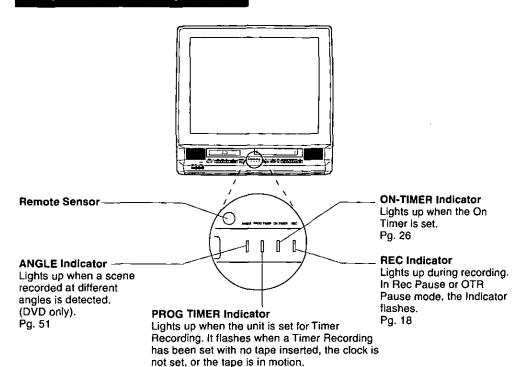
This button is inoperative if pressed during recording. If pressed in DVD mode, the disc tray opens or closes.

Front View of the unit



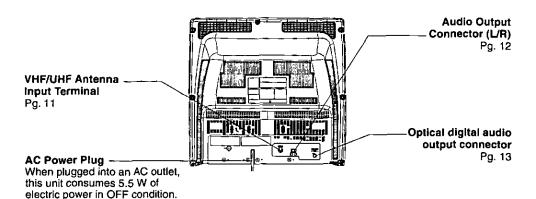
Location of Controls (continued)

Indicators on the Front Panel



Rear View of the unit

Pg. 30



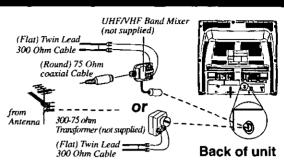
Connections

Outdoor Antenna Connections

Unhook the antenna from your previous TV or VCR and connect it to the back of the unit as shown in the diagram. If your antenna system has separate UHF and VHF lead-ins, you need a UHF/VHF Band Mixer (not supplied.)

WARNING:

When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.

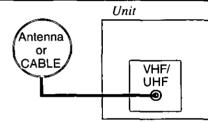


DSS/Cable Box Connections

Without a Cable Box

You can:

- record or view unscrambled channels.
 You cannot:
- · record or view scrambled channels.
- view a channel other than the one selected for any type of recording.



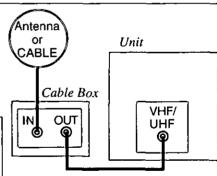
■ With a Cable Box

You can:

- record or view any channel including scrambled channels.
 NOTE: Channel selection must be made at the cable box.
 You cannot:
- view a channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the cable box.

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.



With a DSS Receiver

You can;

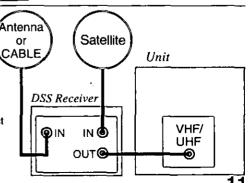
record or view any channel including scrambled channels.

NOTE: Channel selection must be made at the DSS Receiver.

You cannot:

- view a channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the DSS box.

NOTE: The DSS receiver must be turned off to view programs from a cable box or antenna. See the DSS manual for details.

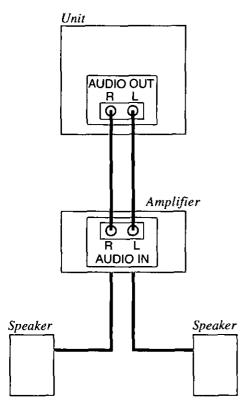


Connections (continued)

Audio connections

■ Unit → Amplifier → Speaker

Do the "Speaker ON/OFF system" steps on page 47, and select "OFF."



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	output)*1	
DVD	Linear PCM (48/96 kHz 16/20/24 bit)	Linear PCM (2ch) (48 kHz sampling/16 bit only)*2 or no output*1	
Video CD MPEG 1		PCM (44.1 kHz sampling)	
CD	Linear PCM	Linear PCM (44.1 kHz sampling)	

- 11 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:

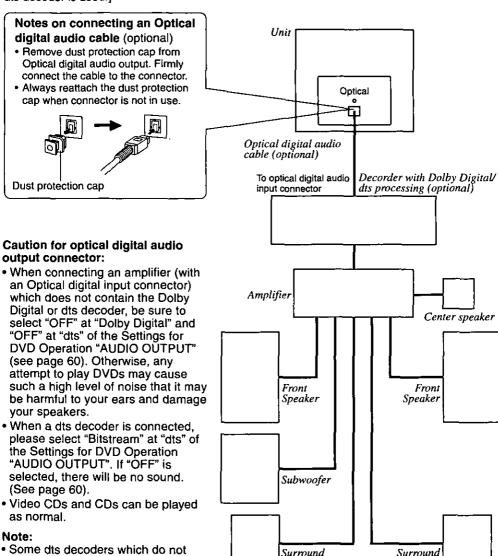
- Dolby Digital is a digital sound compression technique developed by the Dolby Laboratories Licensing Corporation. Supporting 5.1-channel surround sound, as well as stereo (2-channel) sound, this technique enables a large quantity of sound data to be efficiently recorded on a disc.
- Linear PCM is a 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.

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■ 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.]



speaker

support DVD-dts interface may not

work properly with the unit.

13

speaker

Initial Setup

When the unit is turned on the first time, setup mode is entered automatically.

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

Press POWER* on the remote or unit.

SELECT LANGUAGE CH ▲ :English OPRIMIR CH ▼ :Español

APP.

Press CH ▲ to select English.

Press CH ▼ to select Spanish (Español).

Press VOL+ to select French (Français).

- If wrong language is set, complete "Reset all unit Memory Functions" steps on page 15.
- If you use a cable box, it must be left on.

VOL + :Français

CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN... PLEASE PRESS OH UP KEY CH AUTO SET PROCEEDING

> AUTO CLOCK SET PROCEED ING

Setup completed

2/ 7/2001 WED 12:00PM

DST;ON SETTING : CH 10

AUTO CLOCK SET

COMPLETED

END : PRESS CH UP KEY

CHANNEL/CLOCK AUTO SET

Press CH **A** to start CHANNEL / CLOCK

AUTO SET operation.

Press CH A to exit.

 If your area observes daylight saving time, but you would like to turn the DST feature off, set DST: OFF (see "Clock" on pages 16 and 17).

 If time is not correct... even though your area observes daylight saving time and DST is set to ON, do "Time Zone Adjust" steps on page 17.

Process of Setup

POWER

TV-VCR

SELECT

SET

STOP -

Language ⇔Channel ⇔ Clock

(3) (m) (2)

① ③ ③

0

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① ②

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VOL+

CH V

Setup incomplete

AUTO CLOCK SET IS INCOMPLETE PLEASE SET CLOCK BY PRESSING ACTION KEY

See next page.

IMPORTANT NOTE FOR AUTO CLOCK SET

- Auto clock set is performed the first time the unit is turned off each day. If used, a cable box must be left on and tuned to the PBS channel at the time the unit power is turned off if you want auto clock set to be done.
- If using a DSS receiver, it must be turned off for auto clock set. If a Cable Box or DSS receiver is connected to the unit via Audio/Video Jacks, an RF coaxial cable

must also be connected for auto clock set and channel auto set features.

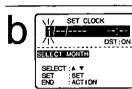
If for any reason the time is changed manually, automatic time correction will not occur.

Setup incomplete

Clock Setup is Incomplete Set the clock manually.



Press ACTION to display SET CLOCK screen.



- Press ▲▼ to select the month.
- 2) Press SET to set.
- Likewise, set date, year, time, and DST (Daylight Saving Time).

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

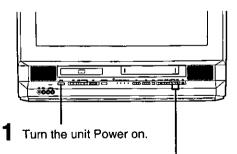
C

Press ACTION twice to end setup. (Clock starts.)

Reset all unit Memory Functions

Use 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.

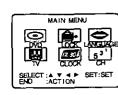


- 2 Press and hold both FF and PLAY on the unit for more than 5 seconds.
 - The power will shut off.
 - Please ignore "NO CASSETTE" warning.
- 3 Do "Initial Setup" steps on page 14.

Notes

- Channel auto set selects normal TV or Cable channels depending on your unit hookup.
- The Language, Channel, and Clock settings can be changed at a later time (see pages 16 and 17). To reset all of these settings, do the "Reset all unit Memory Functions" steps on this page.
- This unit's calendar is accurately maintained up to Dec. 31, 2089, 11:59 PM.

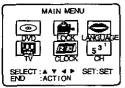
Reset Language, Channels, Clock,



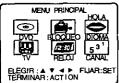
Press ACTION* to display MAIN MENU.

☐ Language

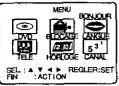
 Press ▲▼◀▶ to select language icon.



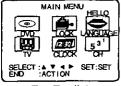
2) Press SET repeatedly.



For Spanish



For French

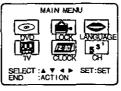


For English

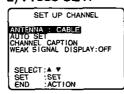
Press ACTION to exit.

Channels

1) Press ▲▼◀► to select "CH."



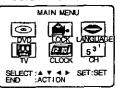
2) Press SET.



- 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.

Clock

 Press ▲▼◀► to select "CLOCK."

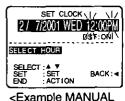


2) Press SET.



- ("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. Press CH ▲.)



CLOCK SET screen>

Continued on the next page.

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

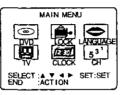
To Make Corrections. repeatedly press ◀▶ to move to error, then correct.

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

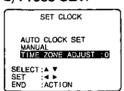
■ Time Zone Adjust

(Only when Auto Clock is set.)

1) Press ▲▼◀▶ to select "CLOCK."



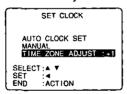
Press SET.



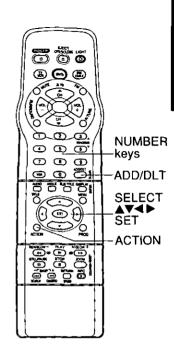
3) Press ▲▼ to select "TIME ZONE ADJUST" and press

or

to subtract or add hour(s) as necessary.

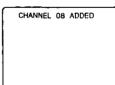


- 4) Press ACTION twice to exit.
- "TIME ZONE ADJUST" returns to "0" if clock is set manually.



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.

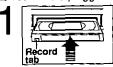


Playback a Tape

Record On a Tape

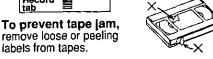
Ready Checklist

☐ All connections are made. Your unit is plugged in.



Insert a tape.

The unit power comes on automatically.



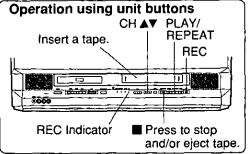
remove loose or peeling labels from tapes.

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
- Eject 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 ▲▼* or number keys to Select Channel.

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

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

LP = Long Play 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

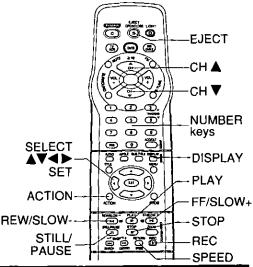
--> Normal Rec --> 0:30 --> 1:00 to set the recording length (30 min - 4 hours.)

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

Notes

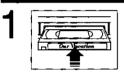
It is not possible to record from DVD/ Video CD/CD to VHS tape using this unit.

- 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



Insert prerecorded tape.



Select "LINE" mode.

Insert blank tape with record tab.

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

2

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



See "Selecting Input Mode" below.

Press REC, then

immediately to put in Standby mode.

Press STILL/PAUSE

(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.

(CABLE) (TV) →125 or 69<

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.

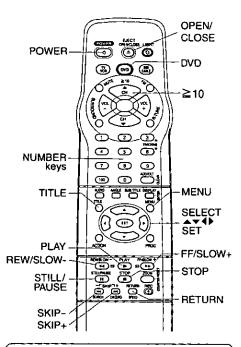
Method 2:

- a Press ACTION for MAIN MENU.
 b Press A▼◀▶ 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.

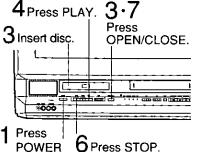
Basic DVD Operation

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.



Operation using unit buttons



- *1 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.

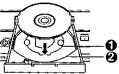
Press DVD to select DVD mode. If a disc is already inserted, go to step 4. (Depending on the disc, playback may start

Insert a disc.

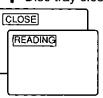
automatically.)

1) Press OPEN/CLOSE.

Place disc into disc tray.



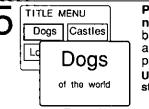
- Hold disc by its edges only (page 7) with printed side up and use guides to place into tray. Use 1 3"(8 cm) or 2 5" (12 cm) disc.
- Press PLAY to start play. Disc tray closes automatically.



- You may also close the tray by pressing OPEN/CLOSE.
- · 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 **▲▼**◀▶ or number key(s) (see below) to select title and press SET to play. Using number key(s)

starts play automatically.

<Example>

<Example> 1 digit number 2 digit number 3 digit number

1 ••• 1

12 ••• ≥10→1→2 123 ---100→1→2→3

Press SKIP ▶▶ or |◄◄ 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 I ◀◀ SKIP once midway through a chapter/track returns to start of that chapter/track. Each additional press skips back one chapter/track.

Current playback position



■ 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, then MENU. Now, go to step 5 (previous page).

Notes

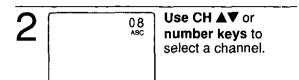
- Please read the disc jacket for operation information.
- If a single sided disc is placed in upside down, "PLEASE CHECK THE DISC, AND FOR STAINS OR SCRATCHES ON DISC" is displayed.
- Remove disc and press unit POWER off when not in use.
- Disc continues to rotate with menu displayed even after play 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 VY button on the remote and try the button again.

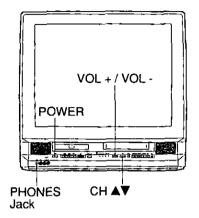
Press POWER* on the remote or unit.

Ready Checklist

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



Press VOL + or VOL - to adjust volume.



■ 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

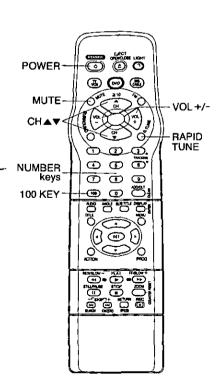
Press R-TUNE to display the last channel you were watching.

■ Audio Mute

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

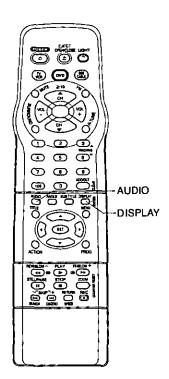
■ Phones

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



MTS Broadcast/TV Stereo System

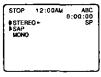
Equipped with dbx* -TV Noise
Reduction for true MTS
reproduction. dbx* -TV Noise
Reduction is required for good
stereo separation and audio fidelity.
dbx* is a registered trademark, and
is licensed by dbx* Technology
Licensing.



Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays. The signal being received is indicated with an " p " 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.



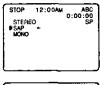
MTS Stereo and SAP broadcast Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously. Select the STEREO or SAP audio mode.



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

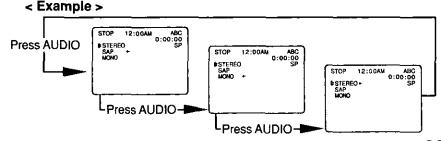
Normal monaural sound broadcast.

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.



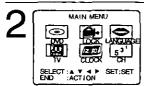
Closed Caption System

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

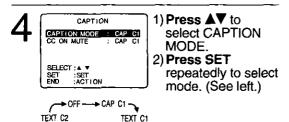
Press ACTION* to display MAIN MENU.



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



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



Press ACTION three times to return to the normal screen.

— CAP C2 ◀

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.

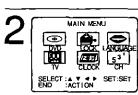
NOTE:

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.

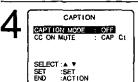
1 Press ACTION to display MAIN MENU.



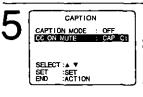
- 1) Press ▲▼◀► to select "TV."
- 2) **Press SET** to display SET UP TV screen.



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



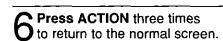
- 1) Press ▲▼ to select CAPTION MODE.
- 2) Press SET repeatedly to select "OFF."

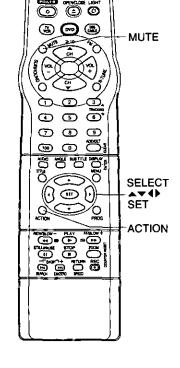


NO→CAP C1

CAP C2◀

- 1)**Press ▲▼** to select CC ON MUTE.
- 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.





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 50.)

7 Press MUTE to mute the sound and display closed captioning.

To cancel, press MUTE again.

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.



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



СН02-----СН03-----СН125

└DVD**—**FM9**—**FM8····· FM1

ON-TIMER mode

selection order

CHO₁

- Press ▲▼ to select desired settings.
 Press SET to set the
- 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 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.



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.

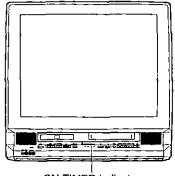
"ON TIMER SET" is displayed.ON-TIMER Indicator lights up on the unit.

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.



ON-TIMER Indicator

Sleep Timer

This unit can be set for auto power off.

Press PROG to display SET PROGRAM screen.



1) Press ▲▼ to select SLEEP TIMER. 2) Press SE1 repeatedly

SLEEP TIMER 30→60→90→00

2) **Press SE1**repeatedly
to select
the desirec
time.

To cancel, press SET repeatedly until 00 appears.

3 Press PROG to return to the normal screen.

 Pressing DISPLAY with sleep timer set displays remaining time.

Note

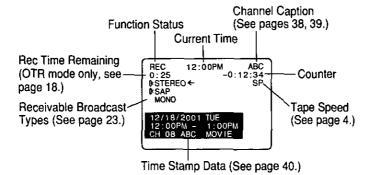
If no button on the remote or unit (including a button used to turn off the alarm) is pressed within 60 minutes after unit turns itself on, it will turn itself back off.

On-Screen Display (OSD)

TV/VCR Status & Clock Display

Press DISPLAY

to display or remove the overlay.

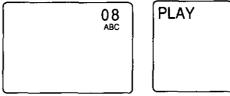


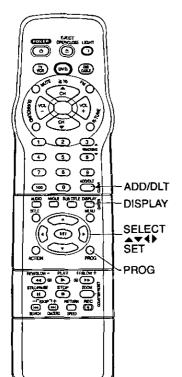
Blue Screen Display

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 41), 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 pages 38, 39.)





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 or press TV/FM on the unit to display FM radio mode.

2 12:00PM FM 1 67. SMHz

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

1) Press CH ▲▼

to select the desired radio

station. (Each

press changes

PM 1 87.7MHz
MEMORY:PUSH ADD/DLT KEY

12:00PM

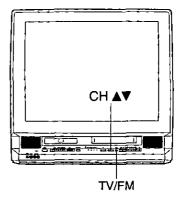
PM 1 87.7MHz
MEMORIZED

frequency 200
KHz.)
2) Press ADD/DLT
to set the radio
station.
Hold down CH A or

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

To exit FM mode, press √ca or DVD on the remote or TV/FM on the unit ▼ for a few seconds, then release to quickly scan for FM stations in your area.

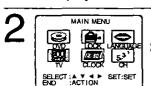
To cancel, press
 CH ▲ or ▼ while in search mode.



FM Antenna Setup

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

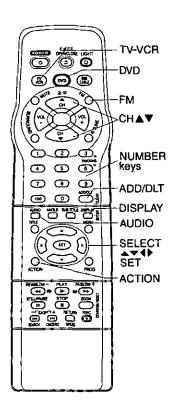
Press ACTION to display MAIN MENU.



1) Press ▲▼◀▶ to select "TV." 2) 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 or press TV/FM on the unit to display FM radio mode.

2 12:00PM
FM 1 87. 5MHz

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

To exit FM mode, press VCR or DVD on the remote or TV/FM on the unit.

Audio Mode for FM Radio

12:00PM **I**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

INMEDIATION TIMER: 00

SELECT: A V
SET : SET : SET : SED : SED : PROG

RATEL START

TODAY\ CATEGORY:N/A

END

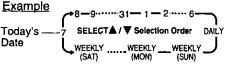
SELECT START DATE

PROG

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

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



STOP

Repeat step 3 to set:

- start time, stop time
- Channel (or LINE for outside source)
- Category [N/A (not applicable), SPORTS, MOVIE, COMEDY, MUSIC, DRAMA)
- Speed (SP, LP, SLP)



Press PROG to end the program.

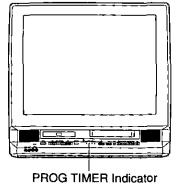
To Enter More
Programs,
press ▲▼ to select
and SET to set a blank
program number, and
then repeat step 3.

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.



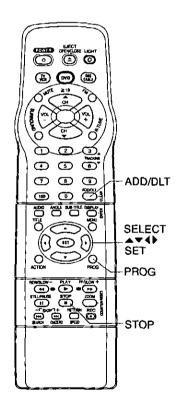
- ☐ All connections are made.☐ Your unit is plugged in.
- ☐ The clock is set to correct time.
- The tape is long enough.
 - ☐ The record tab is in place.



Cancel a Timer Recording: (Recording is in progress)

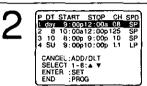
Hold down STOP for a few seconds to cancel the Timer Recording.

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



Review, Replace or Clear Program Contents : (Recording is not in progress)

Repeat steps 1 and 2 on page 30.

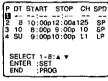


Press AV to select the desired program.

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.

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.

2 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.

Confirm 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.

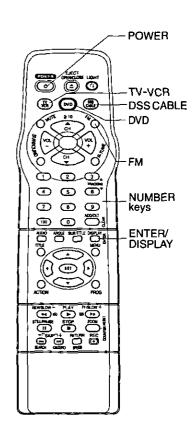
Press vcR, FM, DVD or DSS CABLE on the remote control to select the desired mode. (See below for buttons available in each mode.)

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.



DOC Brand Code Numbero	
DSS Brand Code Numbers	
	Optimus 94, 95
Hitachi/ Hughes 91, 99	Panasonic96
Primestar 92	ProScan97
Drake	RCA97
Magnavox94, 95	SONY98, 105
Uniden	
01110011	
Cable Box Brand Code Numbe	rs
Archer 44, 06, 01, 120, 05, 63, 126	Oak Sigma46, 11, 129, 101
Cableview 29, 09, 01, 63, 120, 44, 42, 30, 52,	Panasonic
04, 124, 126	Philips
Citizen 44, 52, 30, 63, 42, 04, 124, 126	Pioneer
Curtis	Pulsar04, 42, 63, 44, 30, 52, 124, 126
Century	Quest
Cabletenna	Radio Shack
	RCA
	Realistic
Eagle	Recoton 44, 51, 75, 59, 126
Eastern	Regal41, 14, 15, 28, 102, 104, 103, 130
Explorer	Regency
Gemini	Rembrandt 44, 42, 63, 29, 01, 32, 39, 120, 126
General Electric	Samsung 42, 06, 32, 05, 40
General Instruments 01, 84, 83, 34, 03, 02, 04,	Scientific Atlanta 08, 09, 25, 61, 53, 87
55, 65, 66, 67, 68, 120, 106, 121, 122, 115, 117,	Sheritech27
118 124	Signal26, 112
Gerrard 44, 51, 75, 59	SL Marx 42, 06, 32, 40, 43, 44, 52, 63, 126
GC Electronics 44, 42, 63, 29, 30, 52, 04,	Sprucer 17, 16, 08, 87, 109
124, 126	Standard Components 32, 39, 42, 44, 126
Hamlin 41, 14, 15, 28, 102, 104, 103, 130	Stargate 04, 42, 32, 40, 63, 44, 30, 52, 06,
Hitachi	124, 126
Jerrold 01, 84, 83, 34, 03, 02, 04, 55, 65, 66,	Sylvania19, 18
67, 68, 120, 106, 121, 122, 115, 117, 118, 124	Teknika 74, 35
Jasco	Telecaption 77, 127
Macom	1 Teleview 40, 19, 38, 32, 42, 06
Magnavox	□ Texscan19, 18
Matsushita	1 Tocom 34, 33, 01, 42, 66, 120
Movietime 32, 39, 42, 44, 126, 38, 40	Toshiba36
Maestro 74, 35	Unika 44, 42, 63, 29, 01, 126, 120
NEC 40, 19, 38, 32	Universal 52, 43, 44, 63, 42, 126
NSC 40, 19, 38, 32	Viewstar 62, 40, 22, 13, 58, 20, 26, 107
Novavision 08, 09, 25, 61, 53, 87	Videoway 07, 23, 50, 129
Next Level 01, 84, 83, 34, 03, 02, 04, 55,	Vidtek
65, 66, 67, 68, 120, 106, 121, 122	Zenith 07, 23, 50, 129

Notes

Oak.......46, 11, 129, 101

- 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 ⋈, 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
NEXT:SEARCH
EX IT: STOP

Press SEARCH* in Playback or Stop mode to display INDEX SEARCH screen.



Press number keys to select the recording number.

 To calculate number, see below.

INDEX SEARCH

FORWARD SEARCH:FF
REVERSE SEARCH:REW

Press FF or REW to start search.

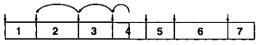
 Play begins at search end.
 To search forward or back 1 index, press FF or REW while screen left is displayed (10 seconds).

To cancel, press PLAY or STOP.

REW FF

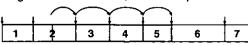
■ To calculate the Index Number Example 1:

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.

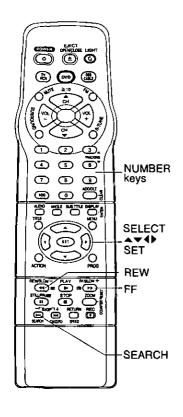


NOTE:

indicates start points of each recording.

Notes

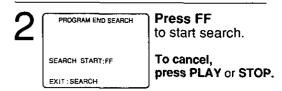
- Make each entry within 5 minutes, or the Index Search mode will be canceled.
- If Index Search is started very close to an index mark, that index mark may not be counted in the search.



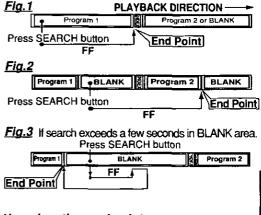
Program End Search

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.

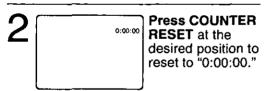
Note

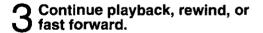
• For repeat play in DVD mode, see page 57.

Zero Search

To quickly return to a specific tape counter location.

Press DISPLAY* during playback to display the Counter.





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, 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

Tape reaches its end

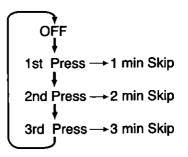
- → Rewind, → Stop
- Playback Auto Eject (Repeat Play is "OFF") Tape with no record tab reaches its end → Rewind, → Stop, → Eject

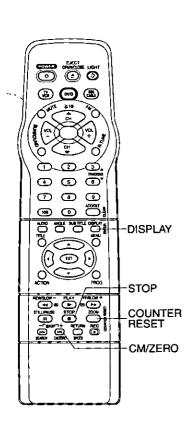
Commercial Skip

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.

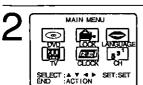




Special VCR Features

Preset Caption

Press ACTION* to display MAIN MENU.



- Press ▲▼◀► to select "CH."
- 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 (Preset Caption), or make up to 10 names of your own (Manual Caption).



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

 CRESSE CAPTION

 MANUAL CAPTION

 SELECT: A V

 SET : SET

 END : ACTION
- Press ▲▼ to select PRESET CAPTION.
- Press SET to display screen.
- To create your own captions, go to "Manual Caption" on page 39.
- PRESET CAPTION

 | ABG | -- PBS | -| CBS | -- CNN | -| FOX | -- ESPN | -| NBC | -- HBO | -| SELECT : 4 V 1 | FOX | FOX

PRESET CAPTION

TNT 42 CBC 62
UPN -- CTV 21
WB 35 TSN 52
DSC -- GLOB TES

CLEAR: ADD/OLT

SELECT: A V 4 P
SET : SET
END : ACTION

- Press ▲▼ to select a station.
- Press SET (or ▶) to move cursor to the right.
- Press ▲▼ to select channel number.
- Press SET (or ◀►) to set preset captions.
- Repeat step 5 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.

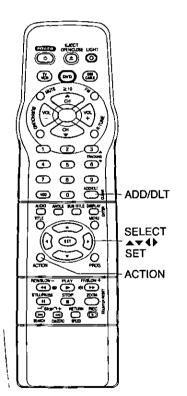
6 Press ACTION four times to end setup.

Manual Caption

Do "Preset Caption" steps 1~3 (page 38).



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



- MANUAL CAPTION
 CH NUMBER CAPTION
 ©2 ---SELECT: A V 4 >
 SET :SET
 END :ACTION
- 1) **Press ▲▼** to select CH NUMBER.
- 2) Press SET (or ▶) to move cursor to the right.
- Channels already set in Preset Caption and channels deleted from Channel Memory are not displayed.
- You can set a total of ten channel captions with up to four characters each.
- MANUAL CAPTION
 CH NUMBER CAPTION
 Q2 G--CLEAR : ADD/DLT
 SELECT: A V 4 P
 SET : SET
 END : ACTION
- Press ▲▼ to select and SET (or ►) to enter your caption.
- Characters change in the following order.
- Press ◀ repeatedly to move the cursor to "CH NUMBER." Repeat

steps 3 and 4 as desired.

To Make Corrections

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

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

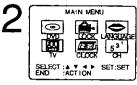
5 Press ACTION four times to end setup.

Special VCR Features (continued)

Time Stamp Feature

This unit writes program data (see example below) for about the first 10 seconds of every recording. The information is then displayed about 10 seconds after playback begins.

1 Press ACTION* to display MAIN MENU.



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

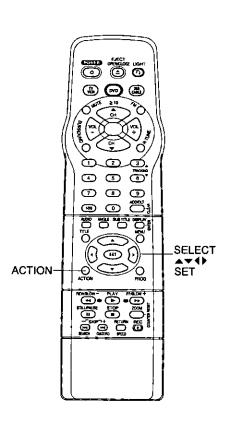
 CAPTION
 INPUT SELECT :TUNER
 SET UP AUDIOVIDEO
 FM ANTENNA :INT
 SEMOTE WARNING ON
 IEME STAMP

 SELECT: A V SET:SET
 END :ACTION
 - 1) Press ▲▼ to select TIME STAMP.
 2) Press SET to set "ON" or

"OFF."

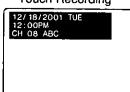
- When "OFF" is selected, the program data is written on the tape, but will not be displayed.
- 4 Press ACTION twice to return to normal screen.

Ready Checklist The clock is set to correct time. The record tab is in place.



<Time Stamp Example >

Normal/ One Touch Recording



Timer Recording



When Clock is not set...



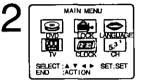
Ready Checklist

☐ It is necessary to enter TV mode by pressing ^{TV}_{VCR} 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.

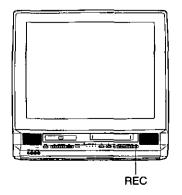
SET UP TV

CAPTION
INPUT SELECT : TUNER
SET UP AUDIOVIDEO
FM ANTENNA : INT
SPEAKER
REMOTE WARRING FOIL
TIME STAMP : ON
SELECT: A V SET: SET
END : ACTION

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.

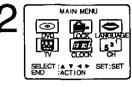
Press ACTION twice to return to normal screen.



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.
- SET UP CHANNEL
 ANTENNA : CABLE
 AUTO SET
 CHANNEL CAPTION
 WEAK SIGNAL DISPLAYFORE

 SELECT: A V
 SET : SET
 END : ACTION
- Press ▲▼ to select WEAK SIGNAL DISPLAY.
- 2) Press SET to set "ON" or "OFF."

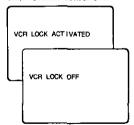
Notes

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

4 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 tum "ON." (Please ignore "NO CASSETTE"

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

waming.)

 VCR Lock is canceled automatically after about 24 hours if clock is set.

V-Chip Control Feature

V-Chip Control Feature is...

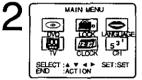
This unit has a built-in V-Chip Control which allows you to block unwanted TV usage based on US MOVIES and US TV PROGRAMS Ratings.

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 9-9
END : ACTION

To Make Corrections

Press number kevs to

make the correction.

Press

repeatedly to

move the cursor.

- 1) Press number keys to enter your secret code.
- 2) 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.

CONFIRM 4-DIGIT CODE

*RECOGNIZED

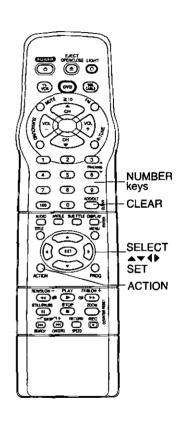
CHANGE CODE: ADD/OLT

CONTINUE: SET

END : ACTION

Press SET to display LOCK MENU (see pages 43, 44).

Or Press ACTION twice to exit.



Changing your secret code

You will need your current code.

Do steps 1 \sim 3. In step 4, press CLEAR to clear current code.

Repeat steps 3 and 4 to enter new code.

Notes

- 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 42.

US MOVIES Ratings

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



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

VIEW NR PROGRAMS7: YES G UNLOCKED PG PG-13 R NC-17 X CONTAINS NO RATING SELECT: A Y SET: SET END : ACTION

 Press ▲▼ to select VIEW NR PROGRAMS?.
 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 PROGRAMS7 : YES
G UNLOCKED
PG
PG-13
R
NC-17
X
GENERAL AUDIENCE
SELECT A V SET:SET
END : ACTION

- Press ▲▼ to select and SET to set ratings to be blocked. (See ratings chart on this page.)
- 5 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 Blocking

US MOVIES RATINGS G **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. **ADULTS ONLY:** X

V-Chip Control Feature (continued)

If LOCK menu is not displayed, do "Secret Code" steps on page 42.

US TV PROGRAMS Ratings

- LOCK :OFF US MOVIES SETTINGS US TV PROGRAMS :OFF CHANGE SETTINGS CHANGE SETTINGS

 NEXT PAGE
 SELECT: A V SET: SET

 END : ACTION
- 1) 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.



- Press ▲▼ to select CHANGE SETTINGS.
- 2) Press SET to display screen.
- VIEW NR PROGRAMS? : YES TV-Y UNLOCKED TV-MA V S L CONTAINS NO BATING SELECT: A V 4 P

1) 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.



- Press ▲▼ to select and SET to set ratings to be blocked. (See ratings charts on this page.)
- 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, profane language, graphic violence, and sexual situations.

US TV PROGRAMS RATINGS: Chart 2

F۷ Fantasy Violence V Violence S Sexual Situations Adult Language D Sexually Suggestive Dialogue

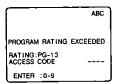
You may select from standard TV ratings (chart 1), or customize to a specific content rating (chart 2).

Press ACTION three times to exit this mode.

Advanced Operation

Blocking Message

<When V-Chip Control is activated>

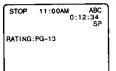


 If a program or movie exceeds the ratings you have set, a message will appear on a black background and sound is muted.

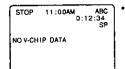
To View a Blocked Program / Movie [Temporarily Deactivate V-Chip Control] Enter your secret code (ACCESS CODE) in the Blocking Message screen.

 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 42).
Then, set US MOVIES and/or US TV
PROGRAMS to "OFF" using ▲▼ and SET.
(Ratings set on pages 43, 44 are retained and will be in effect when V-Chip Control is activated again.)



 If DISPLAY is pressed, even when V-Chip control is deactivated, rating is displayed on-screen.

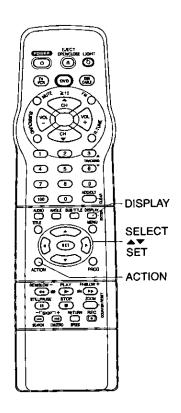


 If DISPLAY is pressed, even when no V-Chip data, "NO V-CHIP DATA" is displayed on-screen. Process of V-Chip Control Feature

Enter Code

Setup

Blocking



Audio Features

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.



 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.

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

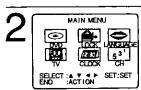
Notes

- 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.

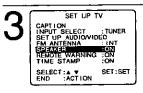
Speaker ON/OFF System

Allows you to turn off the speaker of the unit when it is connected to external audio equipment.

Press ACTION* to display MAIN MENU.



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



MUTE

(I)

7 1

VOL +/-

- AUDIO

SELECT

ACTION

▲▼**∢** SET

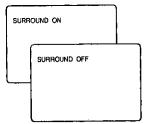
SURROUND

- Press ▲▼ to select SPEAKER.
- 2) Press SET to set "ON" or "OFF."
- "OFF" → MUTE and VOL + - buttons do not function.
- 4 Press ACTION twice to end setup.

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.

Notes

- 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.

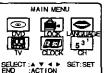


*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

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

Audio Menu

Press ACTION* to display MAIN MENU.



- 1) Press ▲▼◀▶ to select "TV."
- Press SET to display SET UP TV screen.
- SET UP TV CAPTION
 INPUT SELECT : TUNER
 INPUT SELECT : TUNER
 INPUT SELECT : TUNER
 INPUT SELECT : ON
 SEMOTE WARNING : ON
 TIME STAMP : ON SELECT: A V SET:SET
- 1) Press ▲▼ to select "SET UP AUDIO/VIDEO."
- 2) Press SET to display.
- SET UP AUDIOVIDEO :NORMAL AUDIO ADJUST :NORMAL VIDEO ADJUST SELECT: ▲ ▼ SFT SET ACTION
- 1) Press ▲▼ to select "AUDIO MENU."
- 2) Press SET repeatedly 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 right).

- MOVIE
 - Sound suited to movies.
- MUSIC Sound suited to music.
- SPEECH Sound suited to dialog.

Notes

- 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 Menu

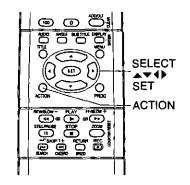
Do steps 1 - 3 left.

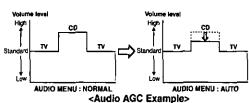


- Press ▲▼ to select "VIDEO MENU."
- 2) Press SET to select desired mode. (See below.)
- Press ACTION three times to end

[Video Menu]

- NORMAL
 - Factory setting.
- MOVIÉ
- Picture is adjusted for a Movie-like feel.
- NIGHT Color and picture intensity are adjusted to be easier on the eyes for night viewing.



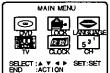


Audio / Video Adjustment

Video Adjustment

Press ACTION to display MAIN MENU.





- 1) Press ▲▼◀▶ to select "TV."
- 2) Press SET to display SET UP TV screen.
- SET UP TV CAPT I ON CAPTION
 INPUT SELECT TUNER
 SET UP AUDIOVADEO
 FM ANTENNA INT
 SPEAKER ON
 REMOTE WARNING ON
 TIME STAMP ON
 - SET:SET
- 1) Press ▲▼ to select "SET UP AUDIO/VIDEO,"
 - 2) Press SET to display.
- SET UP AUDIO/VIDEO AUDIO MENU :NORMAL AUDIO ADJUST :NORMAL VIDEO ADJUST SELECT:▲ ▼ SET :ACTION SET

SELECT: A V

- Press ▲▼ to select "VIDEO ADJUST."
- 2) Press SET to display.
- VIDEO ADJUST TINT PICTURE STANDARD SELECT : ▲ ▼ ADJUST : 4 P END : ACTION
- 1) Press **▲▼** to select an item. (See below.)
- Press ◀► to adiust.

To Reset VIDEO Controls.

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

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

Press ACTION to display MAIN a MENU.





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



- 1) Press ▲▼ to select "SET UP AUDIO/VIDEO."
- 2) Press SET to display.
- SET UP AUDIO/VIDEO AUDIO MENU : NORMAL AUDIO ADJUST VIDEO MENU :NORMAL VIDEO ADJUST SELECT:▲ ▼ SET
- Press ▲▼ to select "AUDIO ADJUST."
- 2) Press SET to display.
- AUDIO ADJUST BASS TREBLE BALANCE -----i----i STANDARD SELECT: ▲ ▼ ADJUST: ◀ ► END :ACTION
- 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.

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 59.)



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 59.) (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.



 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.

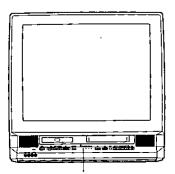
[Audio attribute 1 type, sampling frequency, bit No. of the disc (see page 60)]

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

Notes

- 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.

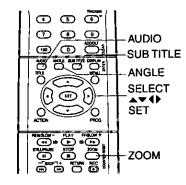
When \bigcirc appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by the unit or the disc.



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 50).
- 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.

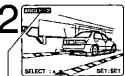
Multiple Angle Viewing (DVD only)

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

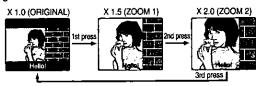
Picture Zoom (DVD only)

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 A, ▼, ■ and ▶ 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.)

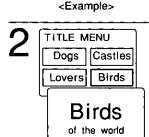
TITLE MENU

Dogs Castles

Lovers Birds

Press TITLE* in Play mode to display title screen.

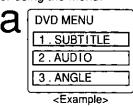
 Pressing TITLE again resumes play from the scene when TITLE was first pressed.



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

<Example> 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.

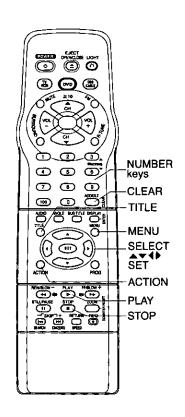


Press MENU in Play mode to display DVD menu.

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



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

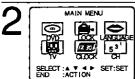


than one menu.

Program Play (Video CD/CD)

You can program specific tracks and order of play.

Press ACTION in Stop mode to display MAIN MENU.



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



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

1) Press ▲▼◀▶ to

- PROGRAM PLAY

 DISC
 PROGRAM

 6 611 10 PROGRAM

 2 7 12 17 15 6

 3 8 13 16 1 13

 4 9 14 19 3 2

 TO SEE COMMENT

 CLEAR ASI
 SELECT

 SET

 EMD
 ACTION
- select a track number. (Track numbers on disc are displayed.) 2) Press SET to set.
- Repeat step 5 to select another track.
- The selected track is added on the right side.
- | DPROGRAM PLAY | DISC | PROGRAM | PLAY | DISC | PROGRAM | PLAY | DISC | PROGRAM | DISC | PROGRAM | DISC | PROGRAM | DISC | PROGRAM | DISC | D
 - 1) **Press ▲▼**◀► to select "START."
 - Press SET to start play of programs in the sequence selected.
 - To cancel, press STOP during play, then press CLEAR.

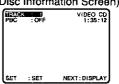
Notes

- 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 A▼
 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.)

- Ready Checklist
- ☐ Unit is in TV-VCR mode, press von. ☐ Video CD or CD is inserted.

Program Repeat Play (Video CD/CD)

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



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

(Unit Information Screen)

SET : SET END : DISPLAY

Press ▲▼ 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.

Disc Operation (continued)

Random Play (Video CD/CD)

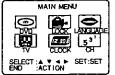
Tracks are played in a random order.

Press ACTION* in Stop mode to display MAIN MENU.

*Important:

If a remote control button does not work when pressed, press the \sqrt{k} , DVD button on the remote and try the button again.

2



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

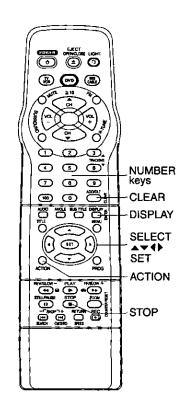
OVD MAIN MENU
DISC LANGUAGES
AUDIO OUTPUT
STILL MODE FIELD
THOSE
EXAMPLED SELECT A *
SELECT A *
SELECT ACTION

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

PLAY MODE
PROGRAM PLAY
GANDOM PLAY

SELECT : A T
SET
SET
ACTION

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



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).

Ready Checklist Unit is in DVD mode, press DVD.

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 56 or 57.)

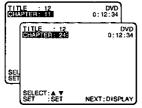
> Selected disc information Selected unit information Normal Screen

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.
- 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>



55

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

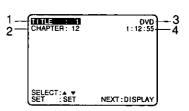
4. Elapsed playing time

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]

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

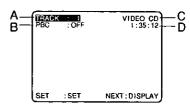
C. Disc currently being played

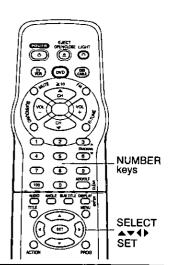
Video CD CD

D. Elapsed playing time

Notes

- 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.





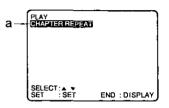
Detailed Descriptions of Each On-Screen Display

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



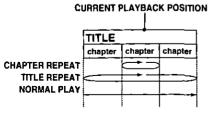
b. Play mode [Video CD/ CD only] (See page 53 or 54.)

PROGRAM PLAY	program play
RANDOM PLAY	random play
	normal play

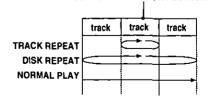


For your reference

• CHAPTER/TITLE REPEAT PLAY (DVD)



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 √√√, OVD 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.

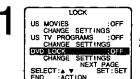
Some DVDs are encoded with a rating level. If the disc rating is higher (stricter) than the one you
preset, playback will be prohibited.

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.

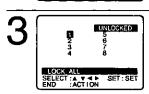
DVD Lock Ratings (DVD only)

Perform DVD Lock setting in TV mode. Enter your secret code to display LOCK menu. (Do "Secret Code" steps on page 42.)



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

 US MOVIES :OFF
 CHANGE SETTINGS
 INTY PROGRAMS :OFF
 CHANGE SETTINGS
 DVD LOCK
 CHANGE SETTINGS
 NEXT PAGE
 SELECT: A V SET:SET
 END :ACTION
- 1) **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.

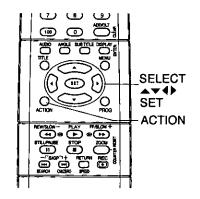
DVDs

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

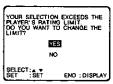
LEVEL 8: NO LIMIT: (Factory preset)
All DVDs can be played back.

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

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 42, select "OFF"
to deactivate DVD Lock or
change the rating level.

in memory (even after power off) until changed. This means the unit will always operate under the same conditions (especially DVDs) each time.

Once initial settings are done, they remain

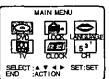
☐ Unit is in TV-VCR mode, press vck.

Ready Checklist

Press ACTION in Stop mode to display MAIN MENU.

Settings for DVD Operation





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



- 1) Press ▲▼ to select an item.
- 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 60.)

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

STILL MODE (See page 61.)

To select "FIELD" or "FRAME" to prevent litter 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 61.)

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.



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



- 1) 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

To enter OTHER **** code number. Press number keys (Please refer to language codes on page 65). 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 59.

DVD MAIN MENU
DISC LANGUAGES
AUDIO OUTPUT
TO MODE
TV MODE
SELECT : SET
END : ACTION

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

 ||SERMIOV|| OFF
 ||Dolby Digital Business
 | Dolby Digital Business
 | Dolby Digital Coff
 | Dolby Digital Coff
 | OFF
 | OFF
 | SURROUND OFF
 |
 | SELECT SET SET |
 | END ACTION
- Press ▲▼ to select an item.
- Press SET
 repeatedly for output.
 (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)

OFF: No output.

"dts" selections

Bitstream: dts bitstream is output. (Factory preset)

PFF: No output.

■ "DRC (Dynamic Range Compression)" selections OFF: Normal audio range is selected. (Factory preset)

ON: 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.

4 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	Recommended setting			
to be connected	LPCM (DVD)	Dolby Digital	dts	
No amplifier is connected	OFF	OFF	OFF	
AV amplifier (with digital audio input connector) without Do!by 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 *3	

- Make settings according to amplifier connected to optical audio output as shown in above table.
- 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 output.
 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)",1
- *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 harmful to your ears and damage the speakers.
- *3 When a dts decoder is connected, please select "Bitstream" in "dts". If "OFF" is selected, there will be no sound.

Notes

- 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.

STILL MODE

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

Do steps 1 and 2 on page 59.

- 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.

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 59.



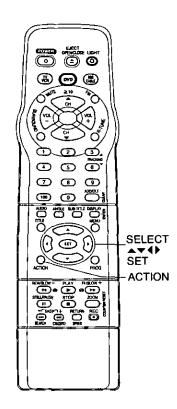
- 1) **Press ▲▼** to select "TV MODE."
- 2) Press SET repeatedly for mode. (See below.)

Pan & Scan: Wide screen video data is played in Pan (Factory preset) & Scan style (left and right of screen is trimmed.)

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

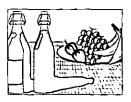
Letterbox: Wide screen video data is played in Letterbox style (top and bottom of screen has black margin).

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.

	gain if you are naving 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. 48, 49)
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. 48, 49)
No color or poor color	Adjust TINT and COLOR controls in the SET UP Video Adjustment. (P. 48, 49)
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. 41)
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. 41) 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 v_{kh} 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. 58)
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 "Changing subtitle language" section (P. 50) 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. 51)
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.

To locate an authorized servicenter, please call toll free 1-800-211-PANA (7262.)

assistance at 1-800-211-PANA (7262.)

or send e-mail to : consumerproducts@panasonic.com

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Warning and Instruction Displays

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

Caution

Page

NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PRESS CH UP KEY AGAIN	If no active channels are found for CHANNEL MEMORY	11
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	41
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

OSD

For Your Information

Language Code List

Enter the appropriate code number for the initial settings "AUDIO", "SUBTITLE" and/or "MENUS" (see page 59).

		_		
Code	Language	Coc	le	Language
6565	Afar	707	9	Faroese
6566	Abkhazian	708	2	French
6570	Afrikaans	708	9	Frisian
6577	Ameharic	716	5	Irish
6582	Arabic	716	8	Scots Gaelic
6583	Assamese	717	'6	Galician
6588	Aymara	717	8	Guarani
6590	Azerbaijani	718	5	Gujarati
6665	Bashkir	726	5	Hausa
6669	Byelorussian	727	73	Hindi
6671	Bulgarian	728	32	Croatian
6672	Bihari	728	35	Hungarian
6678	Bengali; Bangla	728	39	Armenian
6679	Tibetan	736	55	Interlingua
6682	Breton	737	78	Indonesian
6765	Catalan	738	33	Icelandic
6779	Corsican	738	34	Italian
6783	Czech	738	37	Hebrew
6789	Welsh	746	65	Japanese
6865	Danish	74	73	Yiddish
6869	German	741	87	Javanese
6890	Bhutani	750	65	Georgian
6976	Greek	75	75	Kazakh
6978	English	75	76	Greenlandic
6979	Esperanto	75	77	Cambodian
6983	Spanish	75	78	Kannada
6984	Estonian	75	79	Korean
6985	Basque	75	83	Kashmiri
7065	Persian	75	85	Kurdish
7073	Finnish	75	89	Kirghiz
7074	Fiji	76	65	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	Phaeto-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

Service Center List

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 to: 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 (6 am to 5 pm Monday - Friday: 6 am to 10:30 am Saturday: PST) (Visa, MasterCard, Discover Card, American Express, Check)

Factory Servicenters Locations

CALIFORNIA

6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S. San Francisco. CA 94080

3878 Ruffin Road Suite A

COLORADO

1640 South Abilene Street Suite D Aurora, CO 80012

FLORIDA

3700 North 29th Avenue Suite 102 Hollywood, FL 33020

GEORGIA

8655 Roswell Road Suite 100 Atlanta, GA 30350

ILLINOIS

9060 Golf Road Niles, IL 60714

1703 North Randall San Diego, CA 92123 Road Elgin, IL 60123 (Pick-up / Drop-off only)

MARYLAND

62 Mountain Road Glen Burnie. MD 21061

MASSACHUSETTS

60 Glacier Drive Suite G Westwood. MA 02090

MINNESOTA

7850-12th Avenue South Airport Business Center Bloomington. MN 55425

OHIO

2236 Waycross Road Civic Center Plaza Forest Park, OH 45240

PENNSYLVANIA

2221 Cabot Blvd West Suite B Langhome, PA 19047

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13615 Welch Road Suite 101 Farmers Branch, TX 75244

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Phone (787)750-4300 Fax (787)768-2910

As of January 2001

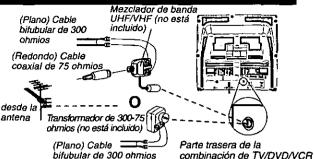
Spanish Quick Use Guide/Guía para rápida consulta

Conexión de la antena externa

Desenganche la antena del televisor o de la videograbadora que tuviera anteriormente v 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 danados.



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 T VHF/ UHF ര

■ Con un decodificador de TV cable Podrá:

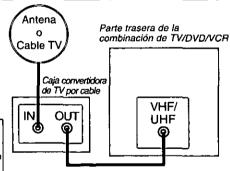
 grabar o ver cualquier canal incluso los canales codificados. NOTA: El canal deberá ser seleccionado en el decodificador

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:

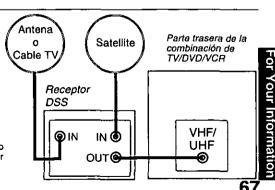
grabar o ver cualquier canal incluso los canales

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

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 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/Guía para rápida consulta

Para fijar el idioma, canal y reloj

Presione POWER para encender el videograbador combinado.

SELECT LANGUAGE CH & :English OPRIMIR CH ▼ :Español VOL + :Français Seleccione el idioma.

CH▲: para inglés CH▼: para español

VOL+: para francés

Comience el ajuste

FLIACION AUTO. (CA/RELOJ) CONECTE EL CABLE DE LA ANTENA Y SI ESTA USANDO UNA CAJA DE TV POR CABLE SINTONICE AL CANAL PBS DE SU LOCAL LUEGO... POR FAVOR OPRIMIR CH UP

automático de canales y el ajuste automático del reloj. Presione CH .

Las siguientes informaciones aparecerán sequidamente:

 AUTOPROGRAMACION EN PROCESO **AUTOPROGRAMACION COMPLETO** FIJACION AUTOMATICA DEL RELOJ



(Completo) Presione CH A para salir.

 Si la hora exhibida no es la correcta para su zona, ajuste el reloj nuevamente de acuerdo con la sección "Ajuste de la zona horaria" en la siguiente página.

Incompleto FLIACION AUTOMATICA DEL

RELOJ ES INCOMPLETO

OPRIMIR ACTION PARA FLIAR EL RELOJ

NOTA IMPORTANTE PARA AJUSTE AUTOMATICO DEL RELOJ El ajuste automático del reloi será realizado al volver a encender el videograbador combinado cada vez que lo apague. Si usa un decodificador de TV cable y desea que la función de ajuste automático del reloj funcione, el decodificador de TV cable debe quedar encendido y

sintonizando el canal PBS en el momento en que se apaga el videograbador combinado. Si usa un sintonizador de TV satelital, para que funcione el ajuste automático del reloj, debe de estar apagado.

Si usa un toma de audio/video para conectar el videograbador combinado y el decodificador de TV cable o el sintonizador de TV satelital, deberá también conectar el cable coaxial RF para poder usar las funciones de

ajuste automático de reloj y ajuste automático de canal. Si por cualquier razón se cambiara la hora manualmente, no se podrá realizar la corrección automática de la hora.

incompleto)

El ajuste del reloj es incompleto. Ajuste el reloj manualmente.

Exhiba la pantalla FIJAR RELOJ. FLIACION AUTOMATICA DEL Presione ACTION para RELOJ ES INCOMPLETO salir de este modo. OPRIMIR ACTION PARA FLAR EL RELOJ



error, luego corrijalo.

manualmente. Presione ▲▼ para seleccionar el mes.

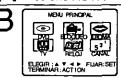
Aiuste el reloi

Presione SET para aiustar. De la misma manera, ajuste el día, el año, la hora y la hora veraniega. (VERANO) Para hacer correcciones. presione repetidamente ◀ ▶ para moverse hasta el

Final del ajuste. Presione dos veces ACTION.

Ajuste de la zona horaria

Exhiba el MENU PRINCIPAL. Presione ACTION.



"FIJAR RELOJ." Presione ▲▼
 para seleccionar "RELOJ." Presione SET para

Exhiba la pantalla

exhibirla.

"AJUSTE ZONA

Seleccione

FIJAR RELOJ FIJACION AUTOMATICA AJUSTE ZONA HORA : 0 ELEGIR:▲ ▼ FIJAR : ◀ ▶ TERMINAR: ACTION

HORA." Presione ▲▼ para seleccionar.

Presione ◀▶ para ajustar.

Final del ajuste. Presione ACTION dos veces. · El valor numérico ajustado aquí se vuelve "0" una

vez que ajuste manualmente el reloj.

Para fijar o fijar de nuevo el reloj

En caso de que el reloj es incorrecto o ha ocurrido un corte eléctrico. Presione ACTION para que parezca el MENU

PRINCIPAL. 2 Presione ▲▼◀▶ para elegir "RELOJ." Luego,

oprima SET para que aparezca la pantalla de FIJAR RELOJ.

3 Presione ▲▼ para elegir "MANUAL." v luego SETpara que aparezca la pantalla de FIJAR

4 Por favor continue con los pasos b y c de la instrucción anterior ((Incompleto).)

Operaciones básicas para la reproducción

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 hacía adelante → Presione FF/SLOW+ Búsqueda hacía 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/SLOW-
- Para hacer avanzar la cinta r\u00e4pidamente → 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

1 Exhiba FIJAR PROGRAMACION. Presione PROG.

FIJAR PROGRAMACION

IMMODIFIZADOR

ENCENDIDO AUTOMATICO
TEMPORI ZADOR- DORMIR:00

ELEGIR: A V
FIJAR: SET
TERMI IMA: PPOG

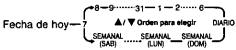
Exhiba TEMPORIZADOR.

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



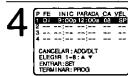
Ajuste la fecha de grabación.

- 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, horá de parada, canal (o LINEA para una fuente exterior), categoría [N/O (no aplicable), DEPORTE, CINE, COMEDIA, MUSICA, DRAMA], velocidad (SP, LP, SLP)



Termine el programa.
Presione PROG
Para introducir más
programas.
presione ▲▼ y SET
para seleccionar y
ajustar el número de
programa en blanco,
y luego repita los

T 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.

pasos 3.

 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.

Elija el modo DVD Presione DVD.

Introducir un disco.

Presione OPEN/CLOSE.

Ponga un disco en la bandeja 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)

Iniciar la reproducción

Presione PLAY. La bandeja 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. Presione ▲▼◀► o las teclas numéricas.

Presione SET para la reproducción.

Si usa las teclas numéricas, la reproducción comienza automáticamente.

Parar la reproducción. Presione STOP.

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/Video 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 subtítulo, y ángulo) e información (repetir la

Visualizar Visualizaciones en pantalia. Presione DISPLAY en el modo

reproducción, modo reproducción, Karaoke

vocal encendido / apagado, etc.).

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.

Presione SET para ajustar

<Eiemplo de DVD> TITULO 12 TITULO : 12 DVD 0:12:34 ELEGIA: A 7 FIJAR : SET SIGUIENTE: DISPLAY

Selección del aiuste deseado

1)Presione ▲▼ para seleccionar. 2) Presione

SET para ajustar. <Ejemplo de Vídeo CD>

VIDEO CD

PISTA - 12 PISIA 17 : SET SIGUIENTE; DISPL

Para volver a la pantalla normal, Presione repetidamente CLEAR o

DISPLAY

Por ayuda, Ilame al 1-800-211-PANA(7262) o envie e-mail a : consumerproducts@panasonic.com

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



Presione SUBTITLE durante la reproducción.

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



Seleccionar el idioma deseado.

- Presione ▲▼ para seleccionar idioma.
- 2) 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.

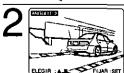
Visión desde otro ángulo [DVD solamente]

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]

Visualizar la pantalla AUDIO.
Presione AUDIO durante la reproducción.



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 LB → L → R

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 guía, y los grabados con varios tidomas proporcionan menús para autic e idiomas de subtitulos. Aunque los contenidos de los menús DVD y la operación cambian de disco a disco, a continuación se explica la operación básica cuando se utiliza esta característica.

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



Seleccionar el ítem deseado.

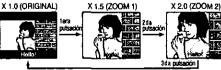
- Presione ▲▼ ◀ ► o las teclas numéricas para seleccionar.
- 2) Presione SET o PLAY.

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 amba o hacia abajo.
 Use los botones ⋖ y ► para desplazar la posición hacia la izquierda o hacia la derecha.

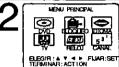
Spanish Quick Use Guide/Guía para rápida consulta

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

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

DVD MENU PRINCIPAL IDIOMAS DEL DISCO SALIDA DE AUDIO DETENER RASTREO CAMPO 4:3 PREFERENCIA: Letterbox MODOLDE RELECCURGION ELEGIA FIJAR TERMINAR

Seleccionar "MODO DE REPRODUCCION."

- Presione A▼ para seleccionar.
- 2) Presione SET para visualizar.



ORRAR EL ULTIMO BORRAR TODO BLEGIR : A V

Seleccionar "REPRODUCCION DE PROGRAMAS."

- Presione ▲▼ para seleccionar. 2) Presione SET para visualizar.
- Seleccionar el número de la pista deseada. (Se visualizan los números de la pista del disco).
- Presione ▲▼◀▶ para. seleccionar.
- Presione SET para seleccionar. Repita el paso 5 para
- seleccionar otra pista. La pista seleccionada se añade a la parte derecha.

ODUCCION DE PROGRAMAS DISCO PROGRAMA BORRAR EL ULTIMO BORRAR TODO ELEGIR :A V INICIAR

Comenzar "REPRODUCCION DE PROGRAMAS."

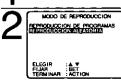
- Presione A▼◀▶ para seleccionar "INICIAR."
- 2) Presione SET.
- La reproducción comienza en la secuencia programada.
- Para cancelar, pulsar STOP durante la reproducción y luego presione CLEAR.

Reproducción arbitraria [Vídeo CD/CD]

Las pistas se reproducen de forma arbitraria.

INICIAR

Repita los pasos 1-3 de la página anterior.



Seleccionar "REPRODUCCION ALEATORIA."

- Presione ▲▼ para seleccionar. Presione SET.
- Comienza la reproducción
- 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 AV 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 fila.

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.

- 1) 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 subtítulos no aparecerán.
- 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.

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

Seleccione "MENU"

Inglés / Español / Francés : (Fijación de fábrica : inglés)

or Your Informatic

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"

Bitstream: Sale un flujo de bits Dolby digital (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 hay salida de audio.

Seleccione "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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Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America, One Panasonic Wav 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**

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair or replace this product with new or refurbished parts or equivalent product, free of charge, in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

PRODUCT	PARTS	LABOR	SERVICE	CONTACT NUMBER
CAMCORDER	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS NINETY (90) DAYS	Carry-In or Mail-In	1-800-211-PANA(7262)
DVD/VCR DECK	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail-In	1-800-211-PANA(7262)
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TV/VCR TV/DVD/VCR	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS	Carry-In: 21" CRT and Smaller	1-800-211-PANA(7262)
COMBINATION			In-Home or Carry-In: 22" CRT and Larger	
TV/HDR COMBINATION	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS	in-Home or Carry-in	1-888-843-9788

Batteries (if included) - New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days. Non-rechargeable batteries are not warranted.

Tape (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days.

Memory cards (if included) - Exchange defective item for new one for ninety (90) days.

In-home, carry-in or mall-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Servicenter Directory. Or call toll free contact number listed above, to locate an authorized PASC Servicenter. Carry in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is requires

before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship, which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO RECORDING MEDIA) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY, ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

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If the problem is not handled to your satisfaction, then write to the Consumer Affairs Department at the Panasonic Consumer Electronics Company address above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER. warvid 02/21/2001

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