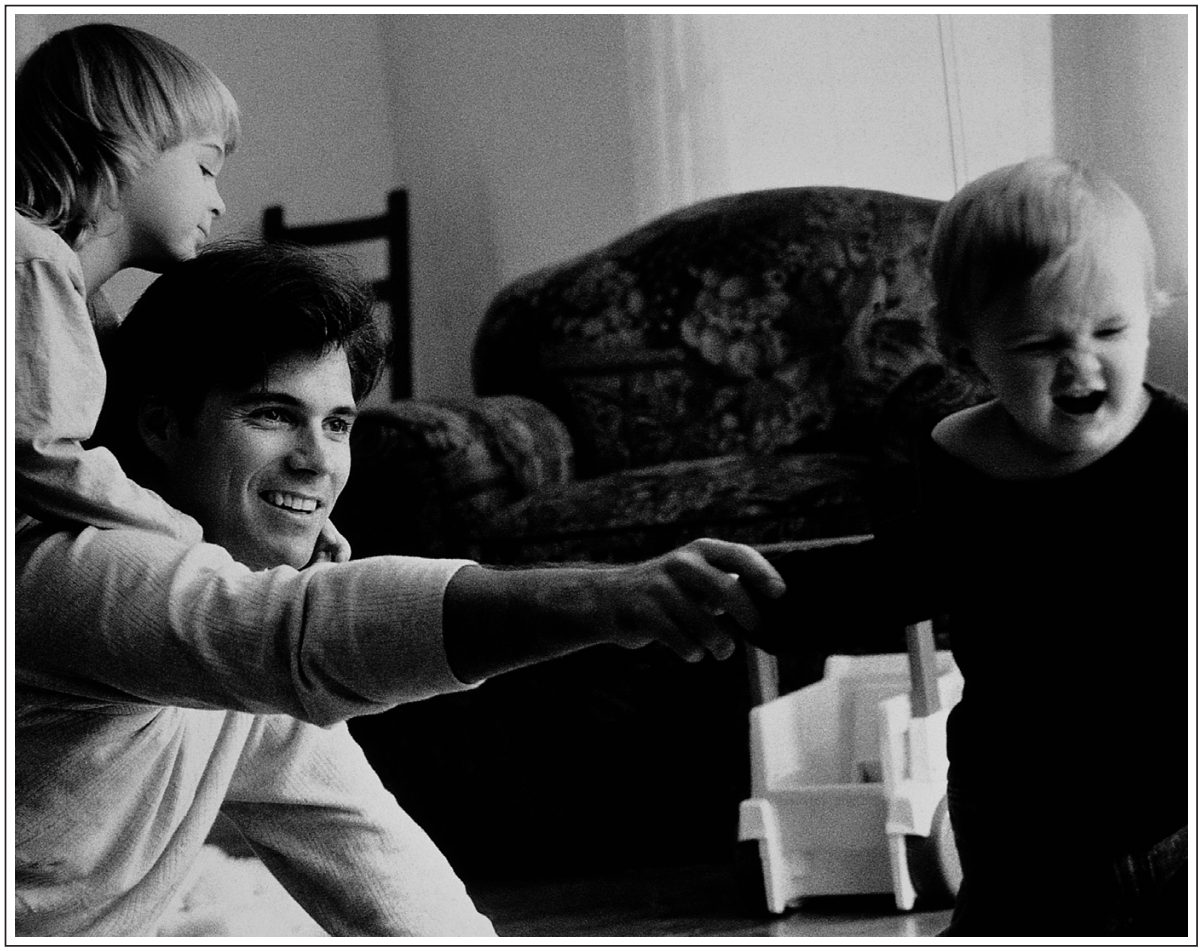
DOUBLEFEATURE™

Panasonic®



Omnivision VHS

DVD/VCR DECK
Operating Instructions
Model No. PV-D4733S



Connections and Initial Setup Procedures are on pages 12 to 17.

DOLBY DIGITAL

dts®

COMPACT disc DIGITAL AUDIO

COMPACT disc DIGITAL VIDEO

DVD VIDEO

MULTI FORMAT PLAYBACK

MP3 PLAYBACK

JPEG Playback

*DVD-R video playback

*CD-R/RW playback

*Ability to play back may depend on recording conditions.

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

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

LSQT0673B

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Important Safeguards and Precautions

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

INSTALLATION

1 POWER SOURCE CAUTION
Operate only from a power source indicated on the unit or in this manual. If necessary, have your Electric Utility Service Company or Video Products Dealer verify the power source in your home.

2 POLARIZED OR GROUNDING PLUG
As a safety feature, this product comes with either a polarized power cord plug (one blade is wider than the other), or a three-wire grounding type plug.

POLARIZED PLUG CAUTION:

This plug will only fit into an outlet one way. If you cannot fully insert the plug, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not defeat the safety feature by tampering with the plug.

GROUNDING PLUG CAUTION:

This plug will only fit into a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not defeat the safety feature by tampering with the plug.

3 POWER CORD
Make sure power cords are routed so that they are not likely to have anything rest on them, roll over them, or be in the way of walking traffic.
If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected.
Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified service technician. Overloaded outlets and extension cords are fire hazards and should be avoided.

4 DO NOT BLOCK VENTILATION HOLES
Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes or discs.
For protection, follow these rules:
a. Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.
b. Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.

5 PLACEMENT: AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES
Do not place the unit over or near heater or radiator, in direct sunlight, inside closed vehicles, in high temperature [over 104°F (40°C)], or in over 75% humidity. If the unit is suddenly moved from a cold place to a warm one, moisture may condense in the unit and on the tape causing damage. Never subject the unit to vibration, impact, or place it so that the surface is titled as internal parts may be seriously damaged.

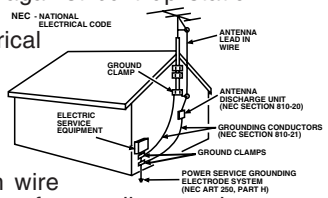
6 TO AVOID PERSONAL INJURY
- Do not place unsecured equipment on a sloping surface.
- Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.



- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION
If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges. Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS
An outside antenna system should be located well away from power lines, electric light or power circuits and where it will never come into contact with these power sources if it should happen to fall. When installing an outside antenna, extreme care should be taken to avoid touching power lines, circuits or other power sources as this could be fatal. Because of the hazards involved, antenna installation should be left to a professional.

USING THE UNIT

If the unit has been in storage or moved to a new location, refer first to the INSTALLATION section of these safeguards.

1 KEEP THE UNIT AWAY FROM WATER OR MOISTURE OF ANY KIND.

2 IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug the unit and have it inspected by a qualified service technician before use.

3 DURING AN ELECTRICAL STORM
During a lightning storm, whether indoors or outdoors, or before leaving the unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

4 WHEN THE UNIT IS PLUGGED IN
- Never expose the unit to rain or water. DO NOT OPERATE if liquid has been spilled into the unit. Immediately unplug the unit, and have it inspected by a service technician. Fire and shock hazards can result from electrical shorts caused by liquid contact inside.
- Never drop or push any object through openings in the unit. Some internal parts carry hazardous voltages and contact can cause electric shock or fire hazard.
  Do not put any foreign object on the disc tray.
- Avoid placing the unit directly above or below your TV set as this may cause electrical interference. Keep all magnets away from electronic equipment.

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

6 CLEANING THE UNIT
Unplug the unit. Then, use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into the 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 THIS PRODUCT YOURSELF
If, after carefully following the detailed operating instructions, this product does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug the unit and contact a qualified service technician.

2 IF REPLACEMENT PARTS ARE REQUIRED
Make sure the service technician uses only parts specified by the manufacturer, or those having the same safety characteristics as the original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.

3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK
After any service or repairs to the unit, request the service technician to conduct a thorough safety check as described in the manufacturer's service literature to ensure that the unit is in safe operating condition.

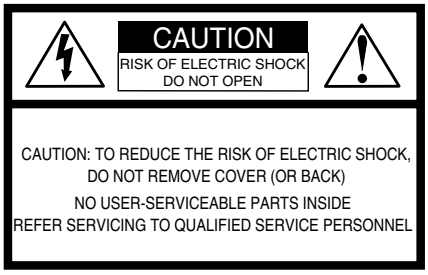
Safety Precautions/Mesures de sécurité

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 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.

CAUTION:
UNIT IS A CLASS I LASER PRODUCT.
HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED.
BE SURE TO OPERATE THE UNIT CORRECTLY AS INSTRUCTED.

WHEN THIS UNIT IS PLUGGED TO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT.

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

DO NOT OPEN COVERS AND DO NOT ATTEMPT TO REPAIR 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 part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when operated in a residential environment. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.
If necessary, consult the dealer or an experienced radio/TV technician for help. The user may find the booklet, "Something About Interference" available from FCC local regional offices helpful.

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.

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

Region Management Information:

This DECK 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 DECK, this DECK cannot play this disc.

- The Region number for this DECK is "1".
- The Player will play DVD-Video marked with labels containing "1" or "ALL".

Example:



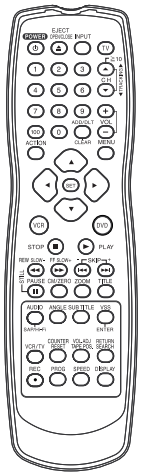
Congratulations

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

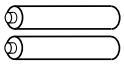
- Date of Purchase _____
- Dealer Purchased From _____
- Dealer Address _____
- Dealer Phone No. _____
- Model No. **PV-D4733S**
- Serial No. _____

Accessories

☐ Remote Control
LSSQ0375



☐ Batteries 2 "AA"

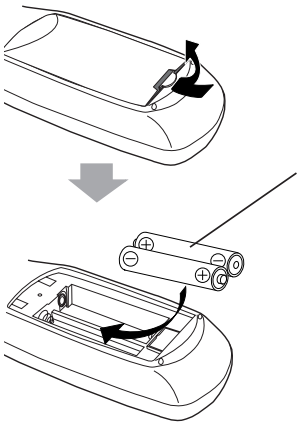


☐ RF Coaxial Cable
LSJA0372



To order accessories, call toll free 1-800-332-5368.

Loading the Batteries



1) Open cover.

2) Insert batteries as marked.

3) Close cover.

☐ **Battery replacement caution**

- Do not mix old and new batteries.
- Do not mix alkaline with manganese batteries.

Disc formats supported by this DECK

DECK can play back discs bearing any of the following marks: **[Discs Played 8cm (3") or 12cm (5")]**

Logo	Disc type
DVD VIDEO DVD VIDEO	**DVD (DVD-Video)**
DVD R R4 7	**DVD-R (DVD-Video formatted discs [finalized])**
COMPACT disc DIGITAL VIDEO	**Video CD**
COMPACT disc DIGITAL AUDIO	**CD (CD-DA)** **CD-R/CD-RW (CD-DA,Video CD formatted discs [finalized])** **MP3, JPEG**

Discs which cannot be played

- DVD with Region No. other than "1" or "ALL"
- DVD of PAL system, DVD-Audio, DVD-RAM, DVD-ROM, DVD-RW, DVD+RW, CD-ROM, CDV, CD-G, CVD, SVCD, SACD, Divx Video Disc and Photo-CD

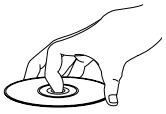
Notes

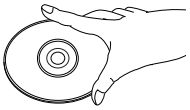
- Do not use irregularly shaped discs (e.g. heart-shaped), as these can damage the unit.
- **It may not be possible to play CD-R, CD-RW and DVD-R in all cases due to the type of disc or condition of the recording.**

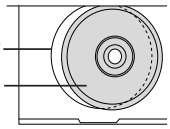
Disc Handling

Handling precautions

- Sticking a label on the disc may impair DVD-R playback.
- Do not attach sticker to discs. (Do not use discs with exposed adhesive from tape or left over peeled-off stickers.)
- Only hold disc by edges as shown below. 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.





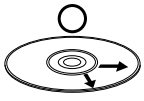


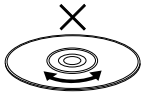
- Do not try to close disc tray when disc is not properly placed.



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.).

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Table of Contents

DVD / VCR

Important Safeguards and Precautions 2, 3
Before Using 4
DECK & Cassette Information ..... 6 , 7
Location of Controls ..... 8 ~ 10
Displays (On Screen Displays and Multi Function Display) 11
Connections ..... 12 ~ 15
Initial Setup for Basic Connections (Ready to Play) 16, 17

VCR

Reset Language, Channels, Clock, VCR's Output Channel ... 18, 19
Playback/ Record on a Tape 20, 21

DVD

Basic DVD Operation 22, 23

Timer Recording 24, 25
MTS Broadcast/ VHS Hi-Fi Stereo System 26, 27
Multi-Brand Control Feature 28, 29
Tape Operation (Search System) ..... 30 ~ 32
Special VCR Features 33, 34
Copying Your Tapes (Dubbing) 35

Disc Operation ..... 36 ~ 40
DVD Operation using On-Screen Displays ..... 41 ~ 42
MP3/JPEG Playback Operation ..... 43 ~ 45
DVD Lock Feature 46
Settings for DVD Operation ..... 47 ~ 49
Language Code List 50

DVD / VCR

Warning and Instruction Displays 51
Before Requesting Service 52, 53
Limited Warranty 54, 55
Customer Services Directory 55
Spanish (Español) Quick Use Guide ..... 56 ~ 61
Index 62, 63

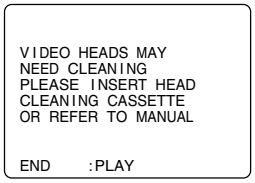
DECK & Cassette Information

Head Cleaning

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

Video Head Clog Sensor

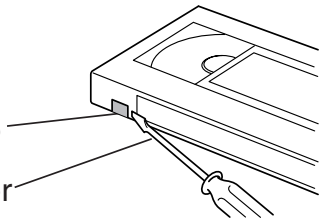
During playback, this screen appears if clogging is detected. To remove screen, press PLAY on the remote or DECK.



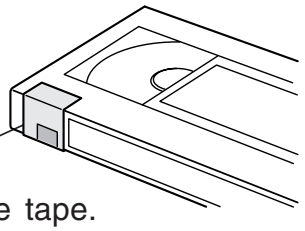
- **Use "dry" type head cleaning cassette only.** (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.
- If head clog symptoms persist, contact your nearest servicenter by visiting our Web Site (see p. 55).

Prevent Accidental Tape Erasure

Break off the tab to prevent recording.



To record again



Record/ Playback Time

Only use tapes with the VHS mark in this DECK.

Tape Speed Setting	Type of Video Cassette		
	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

Cleaning DECK

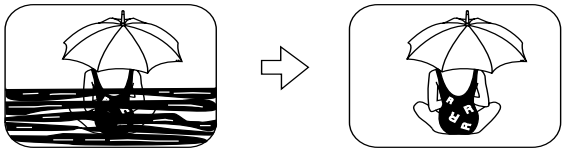
Use a soft cloth or dusting attachment of a vacuum cleaner to remove dust from the ventilation holes on the back sides and bottom of the cabinet. Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. We recommend using a non-abrasive, antistatic cleaner and polisher.

Features for a Quality Picture (VCR)

Digital Auto Picture
Automatically controls the video output signal for less noise depending on the tape condition.

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 CH (TRACKING) ▲/▼ on the remote control or on DECK until the picture clears up.
To return to Auto Tracking, **press POWER** off, then on again a few seconds later.



V-Lock Control (to reduce picture jitter)
In Still mode, **CH** (TRACKING) ▲/▼ operate as a V-Lock control.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Specifications

Power Source:	120 V AC, 60 Hz
Power Consumption:	Power On: Approx. 32 watts, Power Off: Approx. 4 watts
Video Signal:	EIA Standard NTSC color
Video Recording System:	4 rotary heads helical scanning system
Audio Track:	1 track (Normal), 2 channel (Hi-Fi Audio Sound)
Tuner:	
Broadcast Channels:	VHF 2 ~ 13, UHF 14 ~ 69
CABLE Channels:	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
Input/Output Terminal:	Audio/Video Line Input/Output, RF Input/Output
Input Terminal:	Audio/Video Line Input (Front)
Output Terminal:	S-Video Output (DVD only), Component Video Output (DVD only) Audio Output 2 (L), (R)
Operating Temperature:	5 °C ~ 40 °C (41 °F ~ 104 °F)
Operating Humidity:	10 % ~ 75 %
Weight:	4.9 kg (10.8 lbs).
Dimensions:	430 (W) x 95.5 (H) x 344 (D) mm 16-15/16" (W) x 3-12/16" (H) x 13-9/16" (D) inch
Discs Played	
(1) DVD-Video Disc	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 (CD-DA, Video CD) (CD-R/CD-RW, MP3, JPEG)	5" (12 cm) disc 3" (8 cm) disc
Digital Audio Output:	Digital Optical Connector
Pickup:	Wavelength: 655 nm (DVD), 790 nm (Video CD/CD) Laser power: CLASS II

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

Definition of Terms (DVD)

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 on DECK 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 DECK also supports Video CDs with playback control (version 2.0).

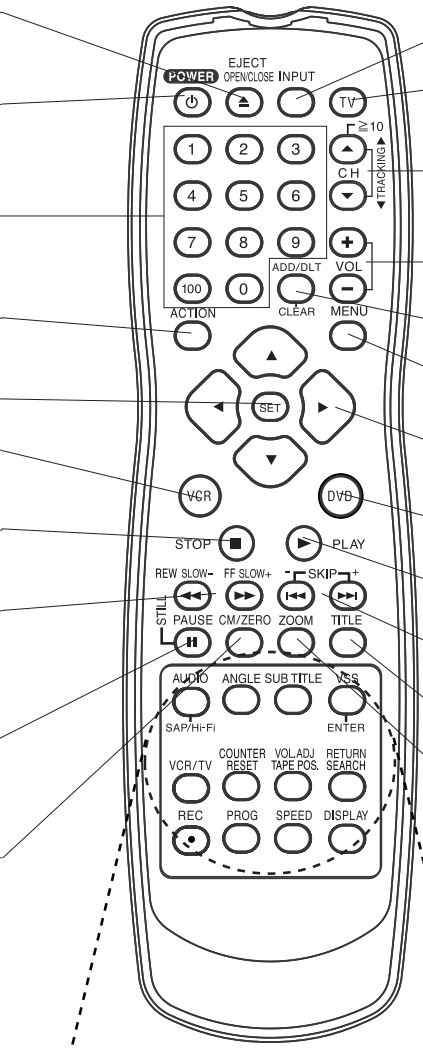
Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, 4,819,098 and 4,907,093, licensed for limited viewing uses only.

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

Bold: **VCR Function**
Italic: *DVD Function*
Bold Italic: ***VCR and DVD Functions***
Normal: Others



EJECT / *OPEN / CLOSE*
pp. 20, *22*

POWER

NUMBER keys

ACTION
pp. 18, *47*

SET

VCR mode
p. 28

STOP
pp. 20, *22*

FAST FORWARD / *SEARCH / SLOW+*
pp. 20, *23*

REWIND / *SEARCH / SLOW-*
pp. 20, *23*

PAUSE / *STILL*
pp. 20, *23*

COMMERCIAL SKIP / ZERO
pp. 31, 32

INPUT
p. 35

TV mode
p. 28

CHANNEL ▲ / ▼
TRACKING / V-LOCK
pp. 6, 21

VOLUME + / –
p. 28

ADD/DELETE / *CLEAR*
pp. 19, *39, 46*

MENU
p. 38

SELECT
▲▼◀▶

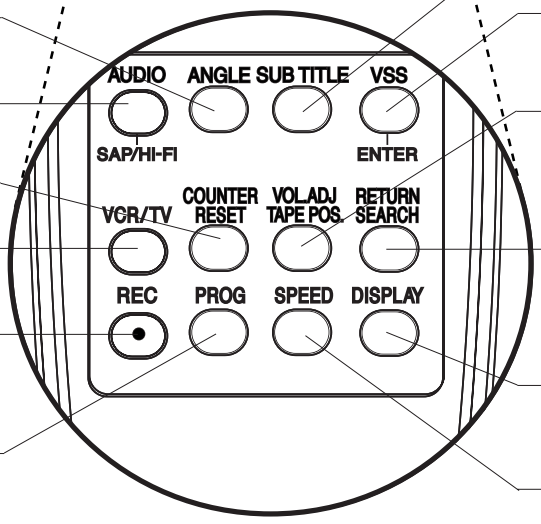
DVD mode
p. 28

PLAY
pp. 20, *22*

SKIP ▶▶|
SKIP |◀◀
p. 23

TITLE
p. 38

ZOOM
p. 37



SUB TITLE
p. 36

Virtual Surround Sound / ENTER
pp. 23, 28

TAPE POSITION / *VOLUME ADJUST*
p. 34, *40*

ANGLE
p. 37

***AUDIO* (SAP / Hi-Fi)**
pp. 27, *36*

COUNTER RESET
p. 32

VCR/TV
p. 21

RECORD
p. 21

PROGRAM
p. 24

RETURN / **SEARCH**
pp. 22, **30**

DISPLAY
p. 11, *41*

SPEED
p. 21

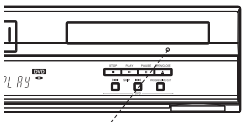
EJECT button: When this button is pressed in VCR mode, the tape is ejected.
This button is inoperative if pressed during recording.
If pressed in DVD mode, the disc tray opens or closes.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

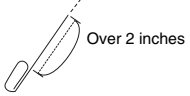
Front View of DECK

Bold: **VCR Function**
Italic: *DVD Function*
Bold Italic: ***VCR and DVD Functions***
Normal: Others

If the disc cannot be removed...
First, unplug DECK. Then, prepare a rigid wire (e.g. an extended paper clip) 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.

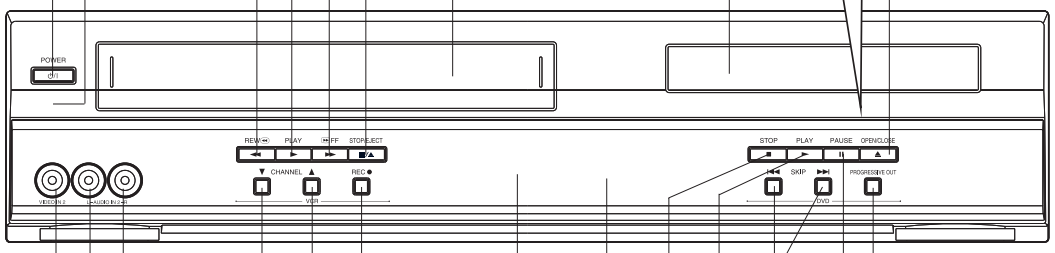


Over 2 inches



Over 2 inches

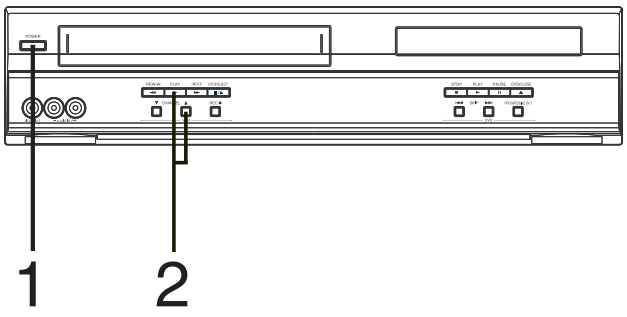
STOP/EJECT p. 20
FAST FORWARD/SEARCH p. 20
PLAY p. 20
REWIND/SEARCH p. 20
Remote Sensor
POWER
Cassette Compartment
Disc Tray
OPEN/CLOSE p. 22



Audio/Video Input Connector 2 (LINE 2) p. 35
CHANNEL ▲/▼ TRACKING/V-LOCK pp. 6, 21
REC p. 21
Multi Function Display p. 11
Remote Sensor
PROGRESSIVE p. 10
PAUSE p. 23
SKIP ▶▶|
SKIP |◀◀ p. 23
PLAY p. 22
STOP p. 22

Reset All Memory Functions

Use when moving DECK to new location, or if a mistake was made in the Initial Setup section (return to Factory Setting).
• Make sure a tape is not inserted in the DECK.



1 Turn DECK Power on.

2 Press and hold both **VCR PLAY** and **CHANNEL ▲** on the DECK for more than 5 seconds.
• The power shuts off.

3 Do “Doing Initial Setup (Ready to Play)” on page 16.

Location of Controls (continued)

Rear View of DECK

Bold: **VCR Function** *Italic*: *DVD Function*
Bold Italic: ***VCR and DVD Functions***

AC Power Plug
- While plugged into an AC outlet, this DECK consumes 4 W of electrical power in off mode.

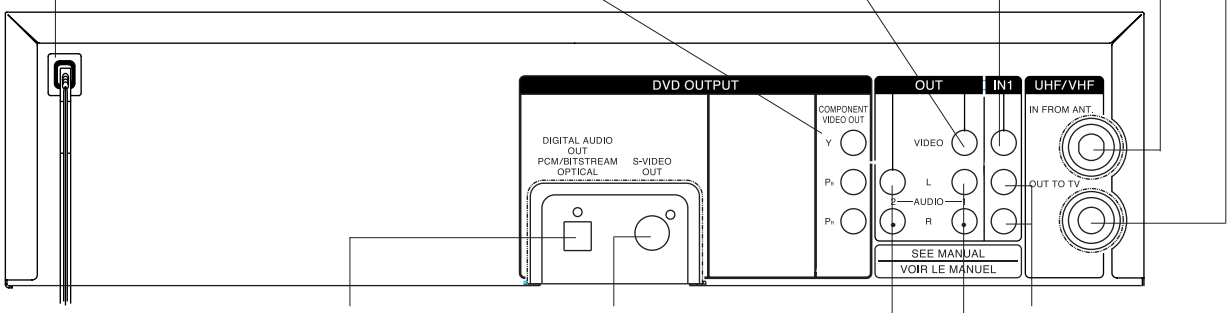
VHF/UHF Antenna Output Terminal p.12

VHF/UHF Antenna Input Terminal p. 12

Component Video Output Connector (Y, P_B, P_R) (DVD Only) p. 13

Video Output Connector p. 12

Video Input Connector p. 35



Optical Digital Audio Output Connector (DVD Only) p. 15

S-Video Out Connector (DVD Only) pp. 10, 13

Audio Output 2 Connector (L/R) p. 13

Audio Output 1 Connector (L/R) p. 12

Audio Input Connector (L/R) p. 35

The following table shows the status of the output jacks when in VCR or DVD mode.

	Video Output Audio Out 1 Audio Out 2	*Component Video Output*	*S-VIDEO OUT*
VCR	YES	N/A	N/A
DVD	YES	YES	

Note
- PROG functions on the remote are not available when using Component Video Output and S-VIDEO OUT. Please set TV to either RF INPUT or VIDEO INPUT, and then press PROG.

To enjoy PROGRESSIVE SCAN video

(1). Connect *Component Video Output* to the component video input terminals of a television. (See p. 13.)
(2). When the PROGRESSIVE button is pressed, the ON lamp lights up (see p. 9) and the PROGRESSIVE SCAN signal is output from the *Component Video Output Connector*.

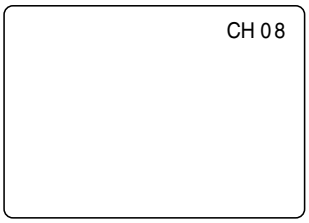
Note
- The PROGRESSIVE button can be operated when the DECK is in DVD function mode.
- The screen may shift off-center when using progressive output. Please adjust the screen position if this occurs. (Refer to your TV manual.)
- The DECK outputs video signals (not PROGRESSIVE SCAN) from the “VIDEO OUT” and “S-VIDEO OUT” terminals when the ON lamp is lit.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Displays (On Screen & Multi Function)

On Screen Displays (VCR)

Function & Channel Displays



When a function button is pressed, e.g. PLAY, or you change channels, a 5-second display appears.

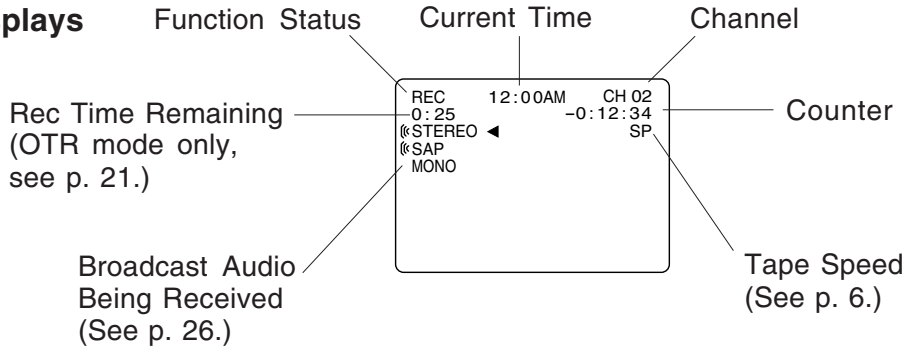
Blank Tape/ No Video Signal Indications

Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with Weak Signal Display Feature (p. 33) set to OFF, the TV screen will turn solid blue.

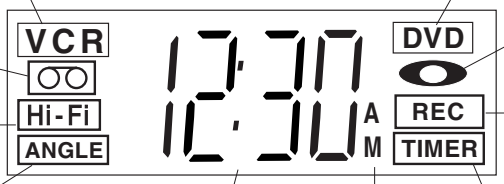
VCR Status & Clock Displays

To display or remove overlay at right,

➛ **press DISPLAY**.



Multi Function Display



VCR mode Indicator
Lights up when DECK is VCR mode.

DVD mode Indicator
Lights up when DECK is DVD mode.

Tape Indicator
Lights up when a tape is inserted.

DISC Indicator
Lights up when a disc is inserted.

Hi-Fi Indicator
Lights up when Hi-Fi audio is monitored in Play mode.

VCR REC Indicator
Lights up during recording.

ANGLE Indicator
Lights up when a scene recorded at different angles is detected.
See p. 37. (DVD only).

AM/PM Indicator

Timer Indicator
Lights up when DECK is set for Timer Recording, or when One Touch Recording (OTR) is used. Flashes when Timer Recording is set, but a tape has not been inserted into DECK and when a power interruption occurs during Timer Programming.

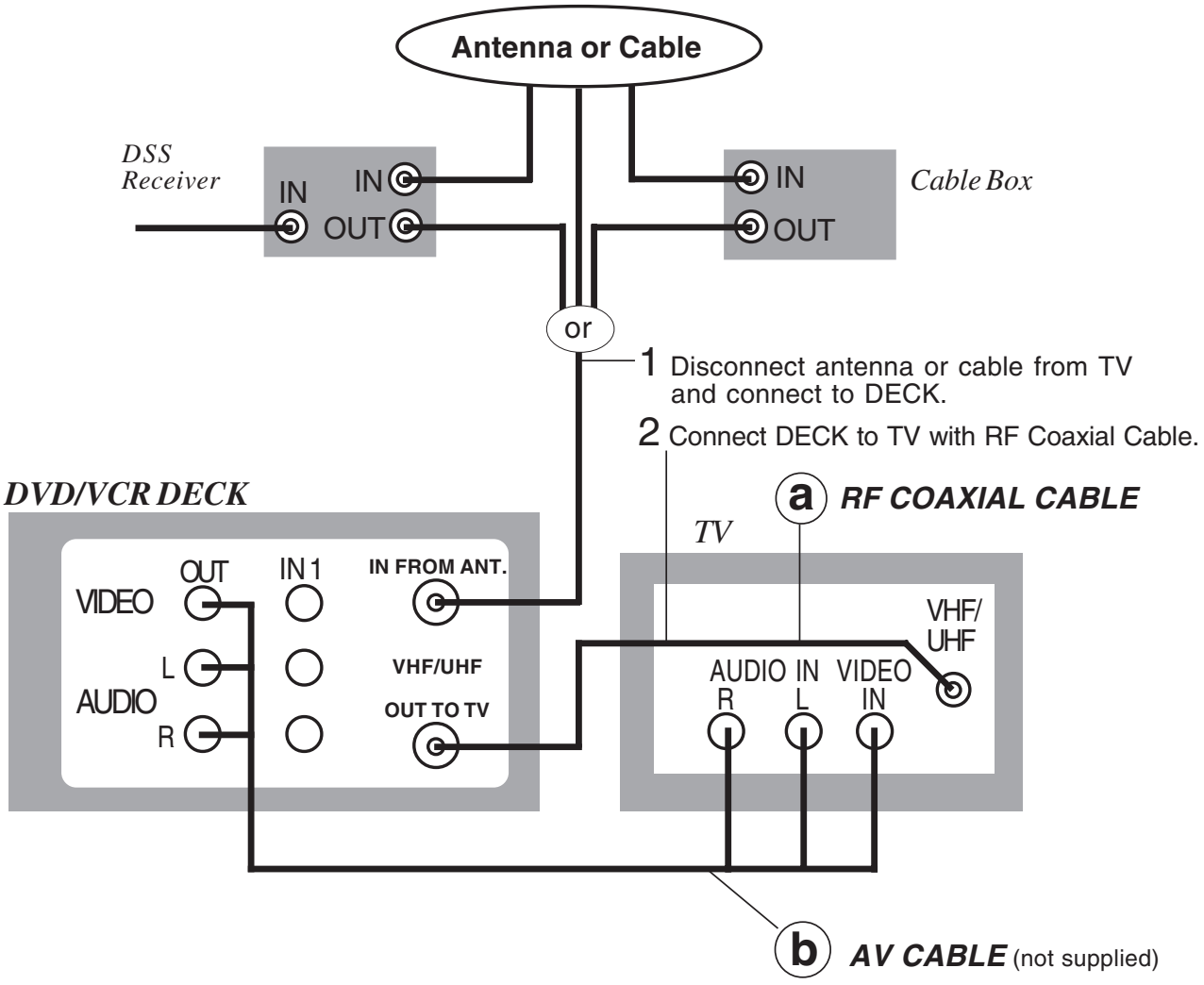
Clock/ Status/ Channel/ Speed Display
Displays the current time. Briefly displays DECK status when a function button is pressed. Briefly displays the channel number, or “L1” or “L2” when a channel or line input is selected. Briefly displays the recording speed when SPEED is pressed.

Connections

Basic Connections

- **If your TV has AUDIO and VIDEO IN terminals, connect them to DECK for higher quality picture and sound.**
- You can enjoy stereo sound even if your TV is not stereo by connecting a stereo amplifier to DECK.
- Connect DECK and TV with an RF Coaxial Cable ⓐ (supplied) or an AV Cable ⓑ (not supplied) as shown in the figure below.

■ **DSS Receiver ➡DECK ➡TV** ■ **DECK ➡ TV** ■ **Cable Box ➡DECK ➡ TV**



WARNING

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

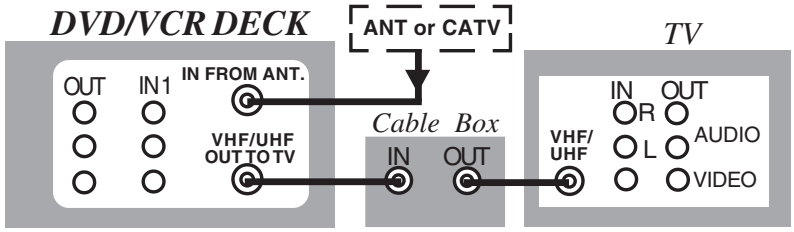
Note to CABLE system installer

This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) 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.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

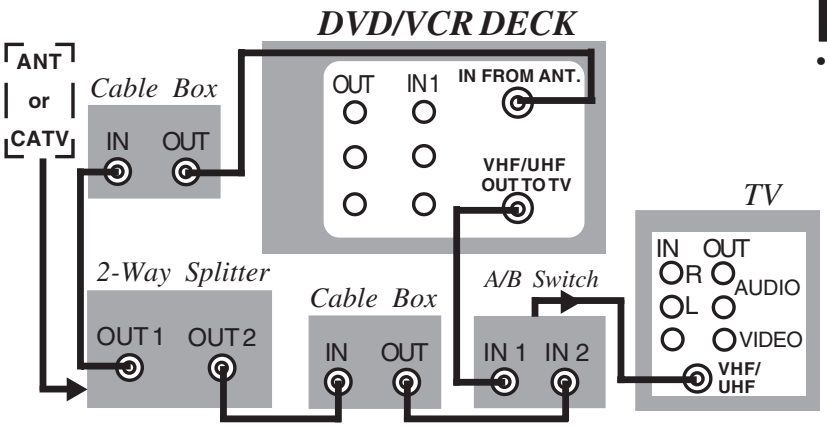
Other Connections

■ With a Cable Box (DECK➡Cable Box➡TV)



You Can	You Cannot
• view any (including scrambled) channel. • use Remote Control to select channels without using Multi-brand control feature.	• record scrambled channels.

■ Connect With Two Cable Boxes



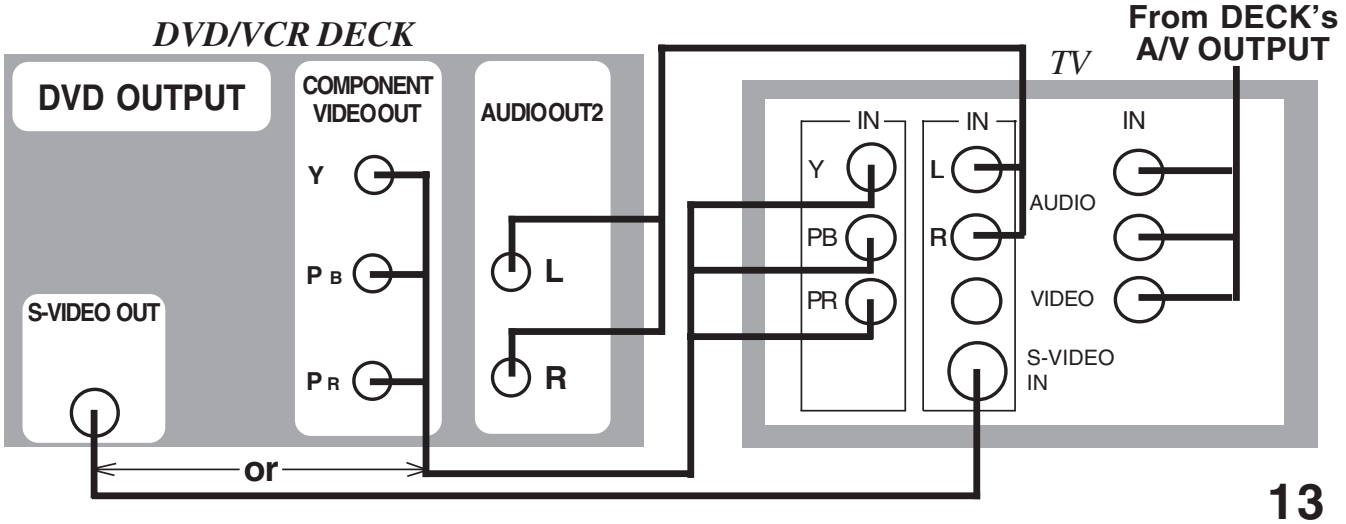
You Can	You Cannot
• record and view both scrambled and unscrambled channels if additional equipment is added. This connection requires: two converter boxes, an A/B switch, and a 2-way splitter.	• view a channel other than the one selected for any type of recording. • do a Timer recording of a channel unless you select it on the Cable Box.

Connections For DVD Only (enjoying higher picture quality)

①Connect AUDIO OUT2 (L, R) to the AUDIO IN (L, R) of the TV. (audio input for COMPONENT or S-VIDEO mode).
②If your TV has COMPONENT VIDEO INPUT, connect to COMPONENT VIDEO OUT.
If your TV does not have COMPONENT VIDEO INPUT but has S-VIDEO INPUT, connect to S-VIDEO OUT.
③When in DVD mode, set your TV to either COMPONENT VIDEO IN or S-VIDEO IN.

Notes

- **You can watch DVDs through the S-VIDEO or COMPONENT VIDEO, VHF/UHF OUT TO TV, and VIDEO OUT connections to your TV. The VCR and TUNER pictures are available only from the VIDEO OUT and VHF/UHF OUT TO TV connections to your TV.**
- PROG functions on the remote are not available when using S-VIDEO OUT and COMPONENT Video Output. Please set TV to either RF INPUT or VIDEO INPUT, and then press PROG.
- TV must have capability to accept and display a progressive scan signal to use PROGRESSIVE mode. Consult your TV operating instructions.



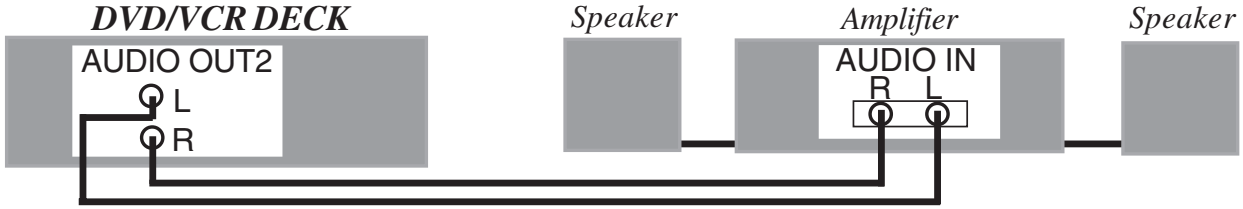
Connections (continued)

Audio Connections

Ready Checklist

- ☐ Turn down the volume, then turn DECK, 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.

■ Connecting Amplifier (2ch stereo system) [Analog connection]



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
DVD	Dolby Digital	Dolby Digital bitstream (1-5.1 ch) or PCM (48 kHz sampling/16 bit only)*1
	Linear PCM (48/96 kHz 16/20/24bit)	Linear PCM (2ch) (48 kHz sampling/16 bit only)*2
	DTS	Bitstream or PCM (48 kHz sampling/16 bit only)*1
Video CD	MPEG 1	PCM (44.1 kHz sampling)
CD	Linear PCM	Linear PCM (44.1 kHz sampling)
MP3	MP3	Linear PCM (It depends on the MP3 file)

*1 The type of audio output from the connector can be selected by the Settings for DVD Operation. (See p. 48.)

*2 Sound having 96 kHz sampling is converted into 48 kHz sampling when it is output from the DECK'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.

Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942, 5,956,674, 5,974,380, 5,978,762 and other world-wide patents issued and pending. "DTS" is a registered trademark of Digital Theater Systems, Inc. Copyright 1996, 2000 Digital Theater Systems, Inc. All rights reserved.

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

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■ Connecting Amplifier (5.1 ch Surround system) [Digital connection]

DECK ➡ Dolby Digital Decoder ➡ Amplifier ➡ Speaker

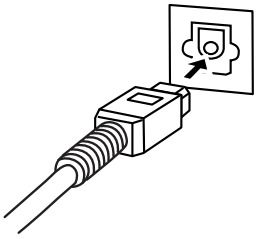
or

DECK ➡ DTS (digital theater systems) **Decoder ➡ Amplifier ➡ Speaker**

When DVDs recorded in Dolby Digital or DTS are played, Dolby Digital bitstream or DTS bitstream is output from the DECK OPTICAL digital audio output connector. When DECK 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.]

Notes on connecting an optical digital audio cable (optional)

- Firmly connect the cable to the connector.



Caution for optical digital audio output connector:

- **When connecting an amplifier (with an Optical Digital Input Connector) which does not contain the Dolby Digital or DTS decoder, be sure to select "PCM" at "Dolby Digital" and "PCM" at "dts" of the Settings for DVD Operation "AUDIO OUTPUT" (see p. 48). Otherwise, any attempt to play DVDs may cause such a high level of noise that it may be harmful to your ears and damage your speakers.**
- **When a Dolby Digital/DTS decoder is connected, please select "Bitstream" at "dts" or "Dolby Digital" of the Settings for DVD Operation "AUDIO OUTPUT". If "PCM" is selected, there will be stereo sound. (See p. 48).**
- **Video CDs and CDs can be played as usual.**

Note:

- Some DTS decoders which do not support DVD-DTS interface may not work properly with DECK.

Initial Setup for Basic Connections (Ready to Play)

Before doing Initial Setup

1 **Turn TV on.**

2 See connections ⓐ RF Coaxial Cable Connection and ⓑ AV Cable Connection on p. 12.

<RF Coaxial Cable Connection>
Set **TV** to **channel 3.**

<AV Cable Connection>
Set **TV** to **VIDEO.**

3 **[DECK ➛ TV]**

- Go to “Doing Initial Setup (Ready to Play).” (See below.)

[Cable Box ➛ DECK ➛ TV], [DSS ➛ DECK ➛ TV]

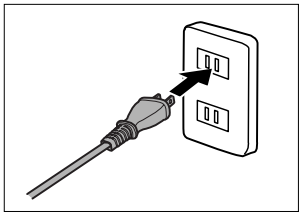
- Turn on Cable Box and set it to your Public Broadcasting Station (PBS) channel in your time zone.
- If you use a DSS Receiver, it must be turned off.

Doing Initial Setup (Ready to Play)

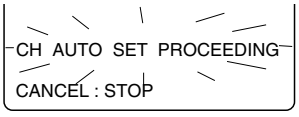
1 **Press VCR on remote for VCR mode.**

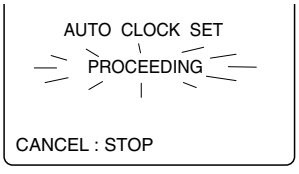
2 **Plug DECK Power Cord into AC wall outlet. DECK comes on and auto channel and clock set starts.**

- If screen below does not appear, check DECK - TV connection and, if TV is tuned to channel 3, try switching it to channel 4.
- To change VCR’s output channel, please refer to “VCR’s Output Channel” on p. 19.



Plugging the AC Power Plug into an AC outlet





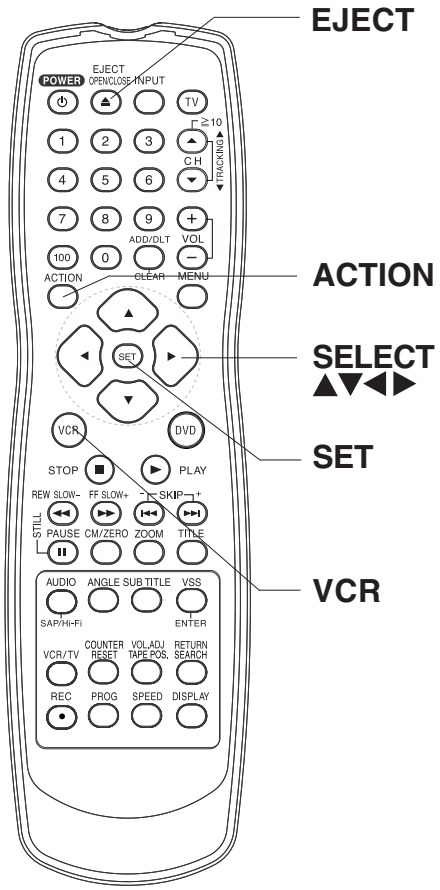
Notes

- Function buttons are inoperative during Initial Setup.
- To remove a cassette during Auto Set, press EJECT on the remote or STOP/EJECT twice on the DECK. In this case, settings must be made manually. (See p. 18.)
- Depending on conditions, Auto Clock Set may take longer than 30 minutes. If so, press STOP to stop setup and perform settings manually. (See p. 18.)

Continued on next page...

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

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



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

```
6/ 8/2003 SUN  2:20PM
              DST:ON
SETTING : CH 10

AUTO CLOCK SET

  COMPLETED
```

If "AUTO CLOCK SET IS INCOMPLETE" appears, manually set clock. See below.

```
AUTO CLOCK SET IS
INCOMPLETE

PLEASE SET CLOCK BY
PRESSING ACTION KEY
```

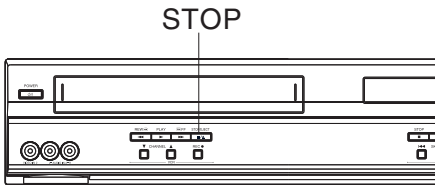
Manual Clock Set

If Auto Clock Set was incomplete.

1 **Press ACTION* on remote to display CLOCK screen.**

```
\|/   SET CLOCK
 1/--/----    --:--
/|\           DST:ON
----------------------
SELECT MONTH

SELECT:▲ ▼
SET   :SET
EXIT  :ACTION
```



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

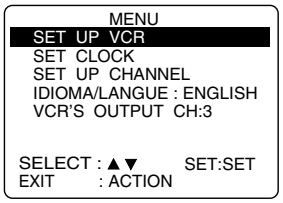
```
      SET CLOCK
 6/ 8/2003 SUN  2:20PM
              DST:ON
----------------------
SET COMPLETED

SET   :SET      BACK:◀
START :ACTION
```

3 **Press ACTION to start clock and exit.**

Reset Language, Channels, Clock,

1



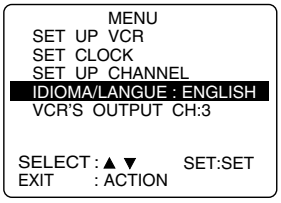
Press ACTION* to display MENU.

- PROGRAM functions are not available when using COMPONENT Video Output and S-VIDEO OUT. Please set TV to either RF INPUT or VIDEO INPUT, and then press PROGRAM.

2

■ Language

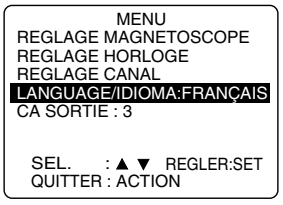
1) **Press ▲▼** to select language item.



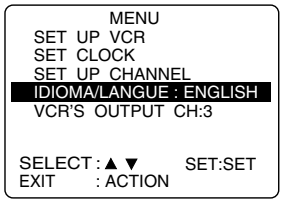
2) **Press SET** repeatedly to change language item as shown below.



For Spanish



For French

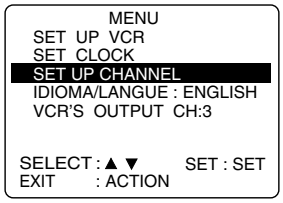


For English

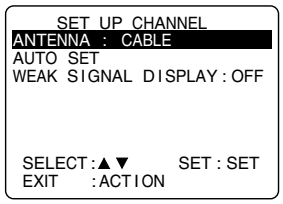
3) **Press ACTION** to exit.

■ Channels

1) **Press ▲▼** to select "SET UP CHANNEL," and **press SET**.

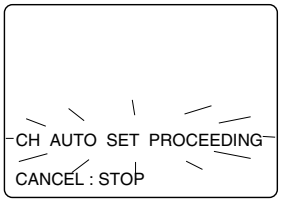


2) **Press ▲▼** to select "ANTENNA," then **press SET** to set your antenna system ("TV" or "CABLE.")



3) **Press ▲▼** to select "AUTO SET," then **press SET**.

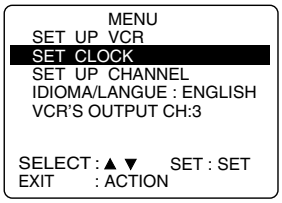
- If you use a Cable Box, set it to the PBS channel in your time zone.



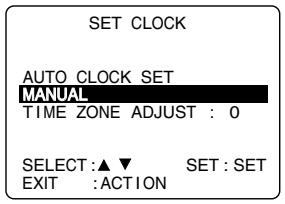
- After Channel Auto Set is finished, Auto Clock Set will be performed.

■ Clock

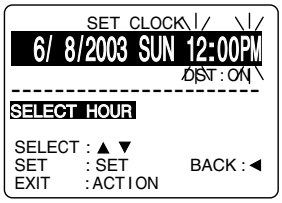
1) **Press ▲▼** to select "SET CLOCK," and **press SET**.



2) **Press ▲▼** to select "MANUAL," and **press SET**. (For Auto Clock Set, select "AUTO CLOCK SET.")



("TIME ZONE ADJUST" appears only when auto clock is set.)



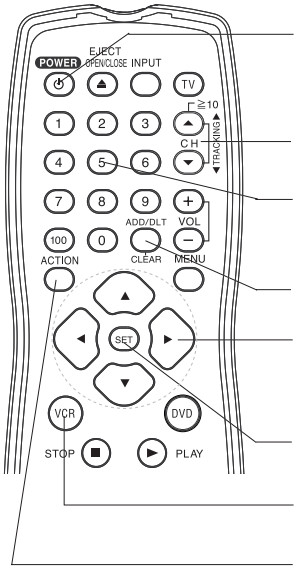
3) **Press ▲▼** and **◄** to select, then set the date, time, and DST (Daylight Saving Time).

4) **Press ACTION** to <u>start Clock</u> and exit this mode.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

VCR's Output Channel

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



POWER

CH ▲/▼

NUMBER keys

ADD/DLT

SELECT ▲▼◀▶

SET

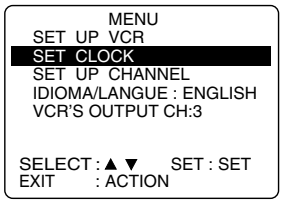
VCR

ACTION

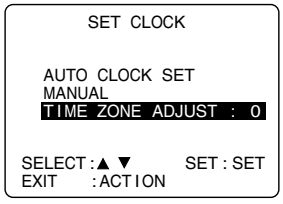
■ Time Zone Adjust

(Only when Auto Clock is set.)

1) **Press ▲▼** to select "SET CLOCK," and **press SET**.



2) **Press ▲▼** to select "TIME ZONE ADJUST,"



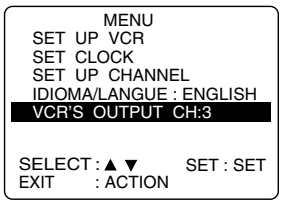
and **press SET** to subtract or add hour(s) as necessary.

3) **Press ACTION** twice.

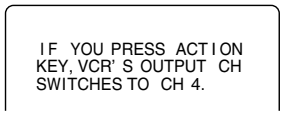
- "TIME ZONE ADJUST" returns to "0" if clock is set manually.

■ VCR's Output Channel

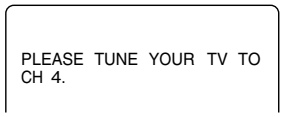
1) **Press ▲▼** to select "VCR'S OUTPUT CH.," and **press SET**.



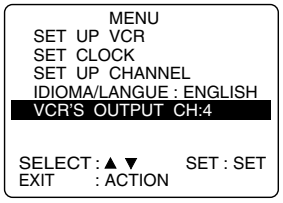
2) **Press SET**.



3) **Press ACTION**.



⬇ After 3 seconds

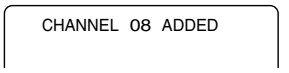


- To Make Corrections, repeat steps 1) ~ 3).

Add or Delete a Channel

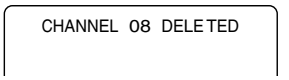
To add channel:

Select channel with **NUMBER keys** and **press ADD/DLT**.



To delete channel:

Select channel with **CH ▲/▼** or **NUMBER keys** and **press ADD/DLT**.



DST (Daylight Saving Time)

DECK auto adjusts clock for DST. (p. 17.)

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.
- Keep these time changes in mind when programming DECK for timer recordings.

Playback/ Record on a Tape

Ready Checklist

- ☐ All connections are made (pp. 12 ~ 15).
- ☐ TV and DECK are plugged in.
- ☐ TV is on and tuned to CH 3, 4, or VIDEO.
- ☐ Remote is in VCR mode. (Press VCR.)

Playback a Tape

1 **Insert a tape.**

- DECK power comes on. If Auto VCR/TV (see p.32) is set to "OFF," press VCR/TV on the remote to be VCR mode.

2 **Press PLAY*** to play a tape.

- If tape has no rec. tab (p. 6), auto play begins.

Special Features During Play

■ **Forward/Reverse Scene Search**

➛ **Press FF/SLOW+** or **REW/SLOW-**.
➛ **Press PLAY** to release.

After search has begun, each additional press of **FF** or **REW** changes speed as shown below.

[SLP] : Approx. 21X ↔ Approx. 9X
[LP] : Approx. 9X ↔ Approx. 7X
[SP] : Approx. 7X ↔ Approx. 3X

If at 21X, 9X, or 7X speed the picture is interrupted, change speed to 9X, 7X, or 3X.

Notes

- Picture interruption may occur with some TVs.
- FF and REW search speed may vary depending on current tape position.

■ **Still (Freeze) Picture**

➛ **Press PAUSE/STILL**.
➛ **Press PLAY** to release.

■ **Frame by Frame Picture**

➛ **Press PAUSE/STILL** in Still mode.
➛ **Press PLAY** to release.

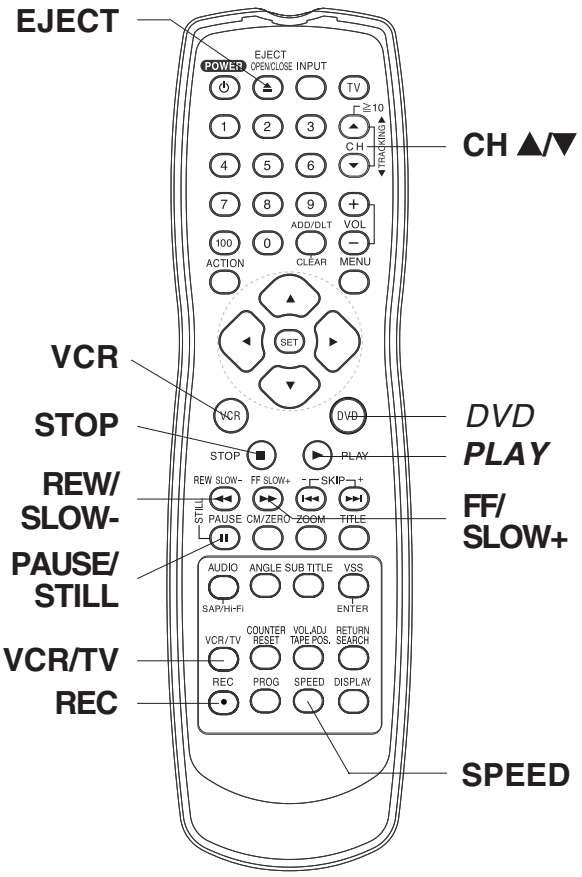
■ **Slow Motion Picture**

➛ **Press FF/SLOW+** (increase speed) or **REW/SLOW-** (decrease speed) in Still mode.
➛ **Press PLAY** to release.

3 **Press STOP** to stop a tape.

■ **Press REW/SLOW- or FF/SLOW+** in Stop mode to rewind or fast forward a tape.

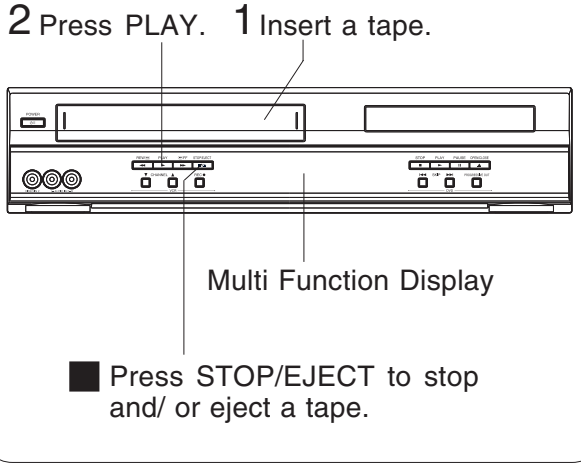
■ **Press EJECT** on remote, or **STOP/EJECT** on DECK to eject a tape.



Notes

- These features work best in SP or SLP mode.
- The sound will be muted.
- To reduce picture noise, see "Manual Tracking Control" on p. 6.
- After DECK is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.

Playback using DECK buttons



For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Record on a Tape

1 **Insert a tape with a record tab** (p. 6).
- DECK power comes on. If Auto VCR/TV (see p.32) is set to "OFF," press VCR/TV on the remote to be VCR mode.

2 **Press CH ▲▼, or NUMBER keys** to select the channel.
- For "LINE" input, see p. 35.
- If channel is over 100, press 100 key then press the remaining 2 digits.

3 **Press SPEED** to select the record speed (p. 6).

SP = Standard Play **LP** = Long Play
SLP = Super Long Play
- Speed appears on-screen and on Multi Function Display.

4 **Press REC** to start recording.
(The VCR REC indicator lights up on Multi Function Display),
- To edit out unwanted scenes, **press PAUSE/STILL** to pause, and again to resume recording.
- You cannot view another channel during recording.

5 **Press STOP** to stop recording.

■ **One Touch Recording** (recording in progress),
- ➛ **Press REC** repeatedly to set the recording length
- ➛ (30 min. ~ 4 hours).
  - DECK shuts off after the preset record length.

■ **Record one station, watch another,**
- ➛ **press VCR/TV** on the remote (change to TV mode),
- ➛ select channels at TV (recording continues).

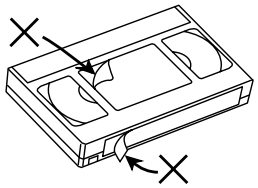
■ **Select Channels at DECK** (In STOP or REC. PAUSE mode),
- ➛ **press VCR/TV** on the remote (change to TV mode),
- ➛ select channels at DECK.

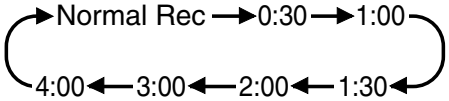
■ **Play a disc while recording a tape.**
- ➛ insert a disc during recording,
- ➛ **press *DVD***, and then **press *PLAY***.

Notes
- **It is not possible to record from DVD/ Video CD/ CD to VHS tape using DECK.**
- **Watching one channel and recording another is not possible when using Cable Box or DSS Receiver.**
- After 5 minutes in Pause mode, DECK stops to protect a tape and video heads.

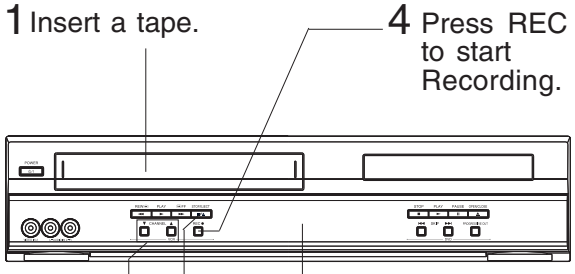
This video recorder, equipped with HQ (High Quality) system, is compatible with existing VHS equipment. Only use tapes with the VHS mark. Only tapes tested and inspected for use in 2, 4, 6, and 8 hour machines are recommended.

Note
Remove loose or peeling labels from tapes to prevent tape jam.





Record using DECK buttons

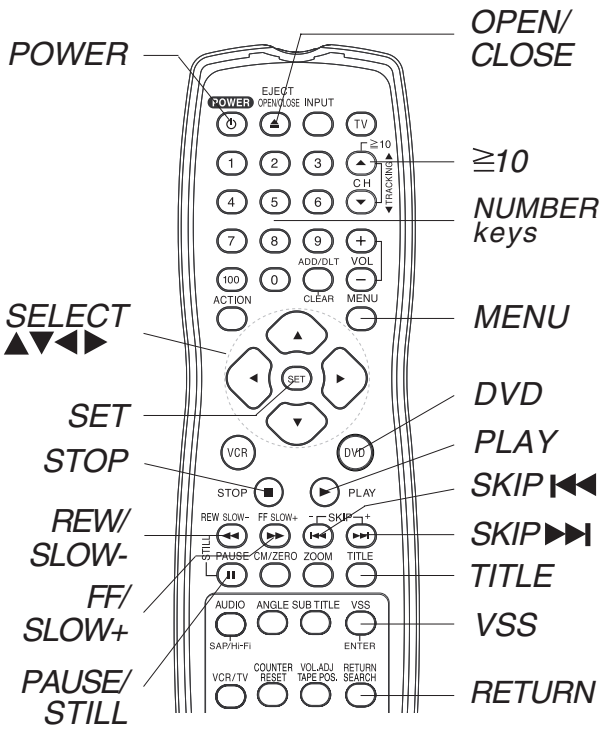


Basic Operation

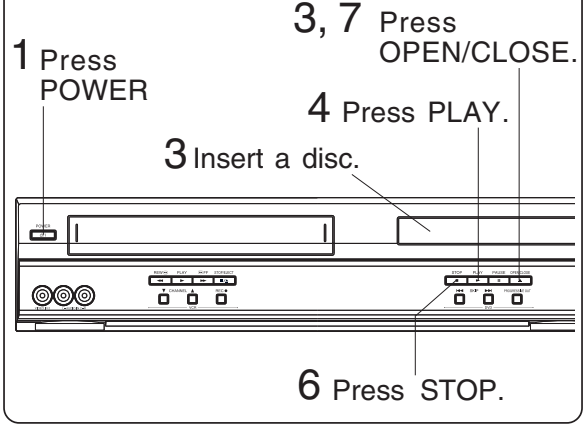
Basic DVD Operation

Ready Checklist

- ☐ All connections are made. (pp. 12 ~ 15)
- ☐ DECK is plugged in.
- ☐ If DECK is connected to an audio amplifier, turn the stereo system's power on.



Operation using DECK buttons



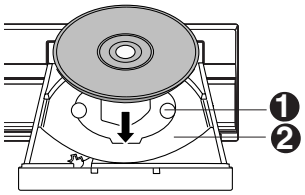
*1 Interactive DVD...
May include multiple camera angles, stories, etc.

*2 Video CD with playback control...
Particular scenes or information can be interactively selected from a menu that appears on the screen.

1 **Press *POWER**** on the remote or DECK.

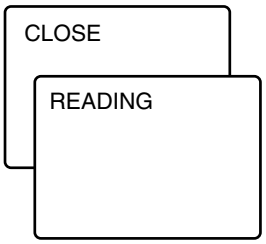
2 **Press *DVD*** to select DVD mode.
- If a disc is already inserted, go to step 4. (Depending on the disc, playback may start automatically.)

3 **Press *OPEN/CLOSE*,** and then place a disc into the disc tray.



- Hold disc by its edges only (p. 4) with printed side up and use guides to place into tray.
Use ❶ 3"(8 cm)
or ❷ 5" (12 cm) disc.

4 **Press *PLAY*** to start playing.
Disc tray closes automatically.

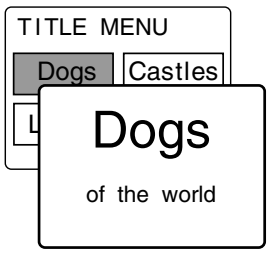


- You may also close tray by **pressing *OPEN/CLOSE***.
- Data reading time differs with each disc.

<Example1>



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

5 

<Example2>

Press ▲▼◀▶ or ***NUMBER keys*** (see below) to select title, and **press *SET*** or ***PLAY*** to start playing.
- "Pressing *SET* or *PLAY*" is not necessary when using *NUMBER keys.*

Using NUMBER keys starts playing automatically.
The number of available titles varies with each disc.

<Input Example>	1 digit number	1 ••• 1
	2 digit number	12 ••• ≧10 1 2
	3 digit number	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)

6 **Press *STOP*** to stop playing.

7 **Press *OPEN/CLOSE*** to eject the disc.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

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

■ Forward/Reverse Scene Search

Press *FF/SLOW+* or ***REW/SLOW-*** during play.

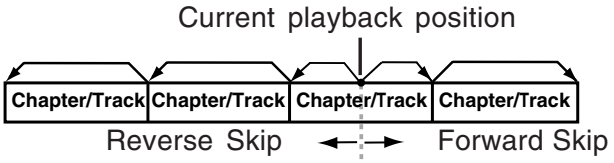
Press *PLAY* to release.

- 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* ▶▶I or **I◀◀ *SKIP*** during play. Each press skips a chapter (DVD) or track (Video CD/CD).

- **Pressing I◀◀ *SKIP*** once midway through a chapter/track returns to the start of that chapter/track. Each additional press skips back one chapter/track.
- **Pressing *SKIP* ▶▶I** or **I◀◀** during play started from menu on Video CDs may recall menu.



■ Still Picture or Pause

Press *PAUSE/STILL* during play.

Press *PLAY* to release.

- **DVD/Video CD :** DECK will enter still picture mode.
- **CD :** DECK will enter pause mode.

■ Frame by Frame Picture (DVD/Video CD)

Press *PAUSE/STILL* in still mode.

Press *PLAY* to release.

- Each press advances picture one frame.
- Hold button down for consecutive frame advance.
- Whether pictures are advanced by "FRAME" or "FIELD" is selected automatically. (See p. 49)

■ Slow Motion Picture (DVD/Video CD)

Press *FF/SLOW+* or ***REW/SLOW-*** 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.

Auto-Power Off Function

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

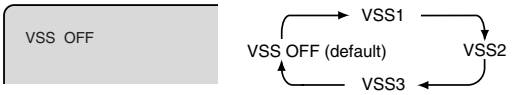
- When ⃠ appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by DECK or the disc.

V.S.S. (Virtual Surround Sound)

Enjoy a surround-like effect if you are using two front speakers only. The effect is broadened and sound seems to come from virtual speakers on either side if the disc has surround signals recorded on it.

Press *VSS* in DVD mode.

- The Surround sound effects can be changed by pressing VSS repeatedly as shown by the figure below.



Note

- Surround sound effects is available in DVD mode only.
- Turn off the surround effects on the other equipment.
- V.S.S. will not work, or will have less effect, with some discs.
- Turn V.S.S. off if it causes distortion.
- Sound will only come from the two front speakers if V.S.S. is on.

Resume Function

DECK memorizes the point where STOP is pressed (**STOP** ▶ is displayed 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.

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

1. Do steps 1-4 (previous page). When menu appears, **press *STOP***.
2. **Press *NUMBER keys*** 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 the menu will be displayed.

Now, go to step 5 (previous page).

Notes

- Please read the disc jacket for operation information.
- If a single sided disc is placed in upside down, "THIS TYPE OF DISC CANNOT BE PLAYED. PLEASE INSERT A DIFFERENT DISC" is displayed.
- Remove disc and press DECK 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.

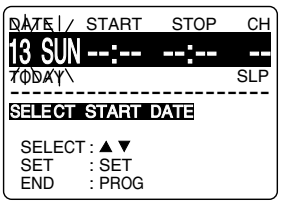
Timer Recording

Ready Checklist

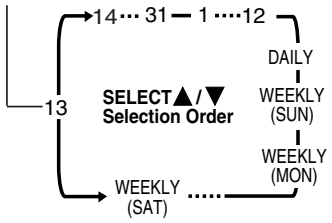
- ☐ All connections are made (pp. 12 ~ 15).
- ☐ TV and DECK are plugged in.
- ☐ Clock set correctly. (p. 18)
- ☐ Tape has rec.tab. (p. 6)
- ☐ Remote is in VCR mode. (Press VCR.)
- ☐ Sufficient tape remaining for recording time.

1 **Press PROG***
to display Program.

2



Example
Today

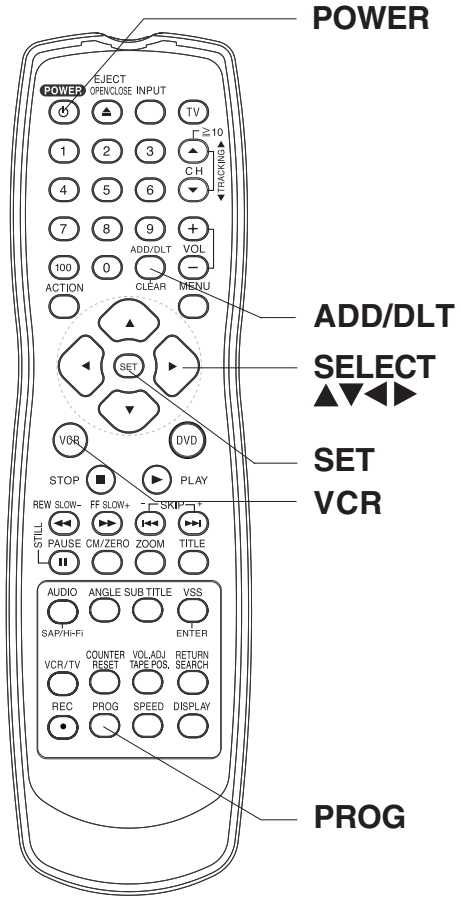


1) To set record DATE,
press ▲▼ to select:
1~31= one time, or
DAILY= MON~ FRI, or
WEEKLY= same time each week and
press SET.

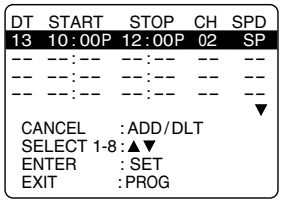
• See selection order left.

2) To set remaining items,
press ▲▼
to select and
press SET
to set START/ STOP times, CH (channel) or LINE input (p. 35), and tape speed (SP, LP, SLP).

Press PROG
to end programming.

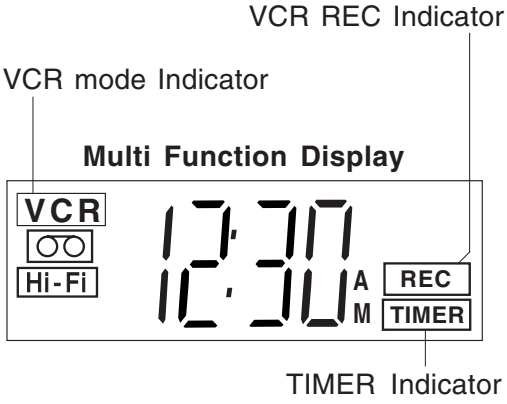


3



To Enter More Programs,
press ▲▼
to select and
press SET
to set an unused program number, and then repeat step 2.

Or
Press PROG
to exit.



- The "Timer" Indicator lights up on DECK.
- You can do Timer Recording with the power on or off.
- **"TIMER REC WILL START SOON"** appears on-screen for 2 minutes before Timer Recording starts. If DECK is in DVD mode, no message appears, but the VCR REC Indicator, the VCR mode indicator and "REC" will flash on Multi function Display.

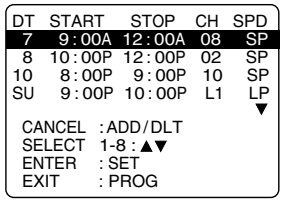
For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Review, Replace or Clear Program Contents:

(Recording is not in progress)

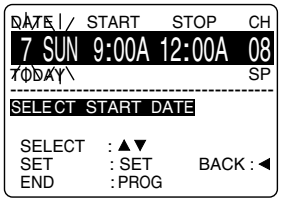
1 **Press PROG**
to display Program List.

2



Press ▲▼
to select number and
press SET
to display.

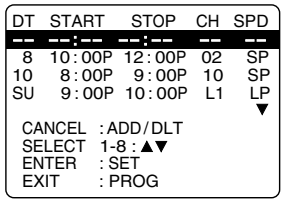
3 **To Replace program...**



Repeat Step 2 (p. 24)
to set new programs.

or

To Clear program...



Press ADD/DLT.

4 **Press PROG**
to end the programming.

To cancel a Timer Recording in progress...

Hold down STOP in VCR mode for a few seconds to cancel the Timer Recording.
(The "TIMER" Indicator goes out on Multi Function Display.)

- Any future daily or weekly recording will be performed as programmed.

Notes

- **If you are using a Cable Box, the VCR's channel for Timer Recording must be set to the Cable Box input channel and Cable Box must be manually set to the desired channel. Cable Box power must be left on.**
- **2 minutes before Timer Recording is performed, "PLEASE PREPARE FOR TIMER REC" appears and Timer Indicator flashes.**
  Be sure a cassette with record tab is loaded and DECK is in Stop mode.
- If a power interruption occurs while programming the timer, the timer program(s) may be canceled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears on-screen, please re-enter the timer programs.
- If the start time for Timer Recording comes up during recording and playing back, Timer Recording will not be performed.

Important notes when using DSS Receiver

- When recording programs via DSS Receiver, DSS Receiver must be left on.
- When recording programs via an antenna or cable, DSS Receiver must be turned off.

Connection

Make the Audio/Video Connection as shown on pp. 12 ~ 15.

• You can use TV connected to a Stereo amplifier and speakers instead of Stereo TV.

Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays.

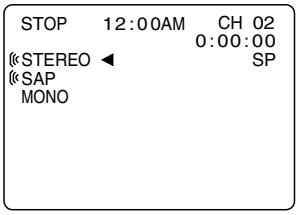
The signal being received is indicated with an "((" mark while the selected audio mode is indicated with an arrow.

To display the broadcast signal being received,

➛ **press DISPLAY***.

MTS Stereo and SAP broadcast

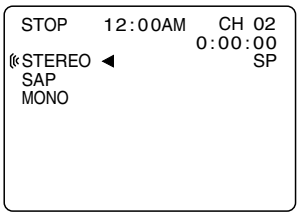
Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously.
Select STEREO or SAP audio mode.



MTS Stereo broadcast

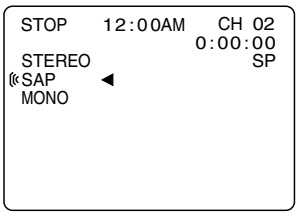
Multi-channel Television Sound Stereo broadcast. Select STEREO audio mode.

- If stereo broadcast is weak and display flickers, select MONO audio mode for possible better results.



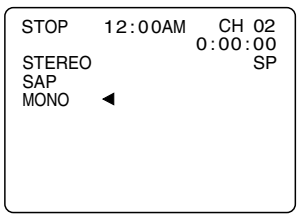
SAP broadcast

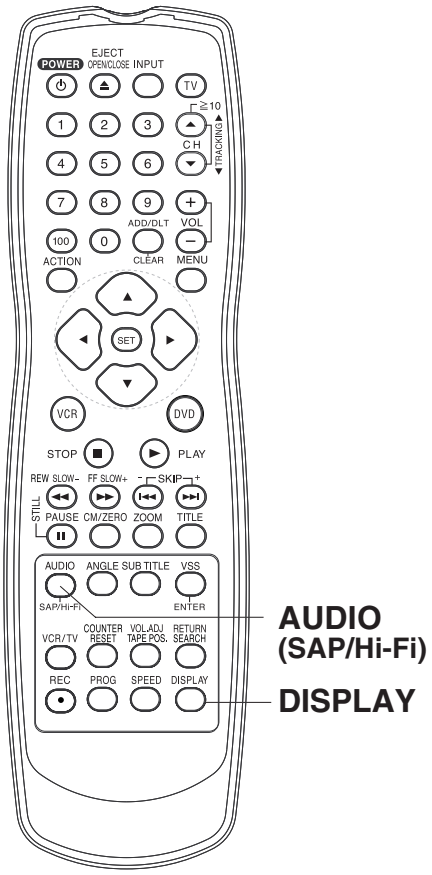
Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.



MONO broadcast

Normal monaural sound broadcast.





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.

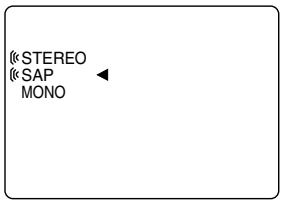
For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Audio Mode for Recording

1 **Press AUDIO (SAP/Hi-Fi)**
to display audio mode.

(Display disappears after 5 seconds.)

2



Press AUDIO (SAP/Hi-Fi) repeatedly
to select desired mode.

- Refer to "Receivable Broadcast Types" on p. 26.
- Arrow indicates selection.

3 **Make a recording.**
See p. 21.

Audio Mode for Playback

1 **Start playback.**
See p. 20.

2 **Press AUDIO (SAP/Hi-Fi)**
to display audio mode.

3



- Arrow indicates selection.

Press AUDIO (SAP/Hi-Fi) repeatedly
to select desired mode.

- Select "HIFI (L/R)" or "HIFI (L)" or "HIFI (R)" to listen to stereo recordings in stereo sound.
  Select "NORMAL" for monaural sound.
- Display disappears after 5 seconds.

Notes

- Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback in monaural sound.
- To listen to Hi-Fi stereo playback, the DECK AUDIO (L/R) jacks must be connected to a stereo TV or an external stereo amplifier and speakers. (See pp. 12, 14.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

Multi-Brand Control Feature

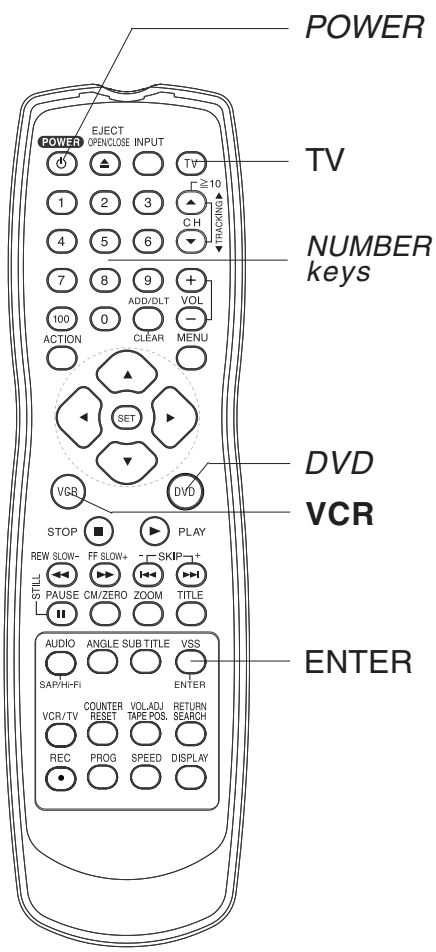
Multi-Brand Control Setup

The Remote Control can be set to control some TV functions.

1 **Find your TV Brand Code Number on the following page.**

2 **Set up for TV control,**
➛ **hold down TV button**,
➛ **enter code with NUMBER keys**.
• If code number is 100 or greater,
➛ e.g., press 1 - 0 - 2 for 102.

3 **Confirm code entry,**
➛ **press POWER** to turn selected unit on or off.
• See table below for controllable functions in each mode.



Notes

- Repeat setup after remote battery replacement.
- Remote will not control every TV made by the manufacturer listed. If you get no response, your particular unit cannot be controlled. There are NO additional codes for the products listed. If your product is not listed, then the remote is not compatible with that product.

Using Multi-Brand Control

After remote is set up, you can select VCR, DVD, or TV for the desired function.

Press VCR, *DVD*, or **TV** on the remote.
(Table below shows available remote buttons for each mode.)

Mode \ Unit	DVD/VCR	TV
DVD/VCR	All	VOL +/−
TV	**EJECT**/*OPEN/CLOSE**, ***DISPLAY***, ***PLAY***, ***STOP***, ***FF/SLOW+***, ***REW/SLOW-***, **VCR/TV**, **PAUSE/*STILL***, *SKIP*, ***AUDIO***, **CM/ZERO**, **TAPE POSITION**, **COUNTER RESET, SPEED, REC**	POWER, INPUT, NUMBER keys, ENTER, CH ▲/▼, VOL +/−

* **Bold: VCR Function** ***Bold Italic: VCR and DVD Functions***
Italic: DVD Function Normal: TV

Notes

- Not all functions listed may be controllable.
- In TV mode, it may be necessary to press ENTER after pressing NUMBER keys for channel selection.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

TV Brand Code Numbers

Panasonic 01, 02	Sylvania 05	JVC 11
Quasar 01, 02	Sharp 06, 07	Hitachi 12
RCA 03	Sony 08	Mitsubishi 07, 13
GE 03	Toshiba 09	Samsung 14
Zenith 04	Sanyo 10	Gold Star 15, 16, 17
Magnavox 05	Fisher 10	

Important Notes

- Some manufacturers use several codes for one brand. If the first code entered fails, try the next one listed.
- Some TV brands require you to turn on the power manually.

Search System

For each recording, an invisible index mark is placed on the tape. A program index and information are also included for timer recordings. These marks are used to access or scan recordings.

Index Search

1

INDEX SEARCH

ENTER INDEX NUMBER :1
USING 1– 9 KEYS

FORWARD SEARCH :FF
REVERSE SEARCH :REW
NEXT :SEARCH
EXIT :STOP

Press SEARCH* to display SEARCH in Stop or Play mode, and then **press NUMBER keys** to select recording number.

- To calculate number, see below.

Press FF/SLOW+ or **REW/SLOW-** on the remote to start search.

2

INDEX SEARCH

FORWARD SEARCH : FF
REVERSE SEARCH : REW

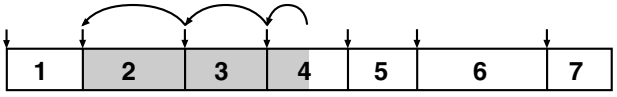
Play begins at search end. To search forward or back 1 index, **press FF/SLOW+** or **REW/SLOW-** on the remote while screen left is displayed (10 sec.).

- To cancel, **press PLAY** or **STOP**.

■ To Calculate Index Number

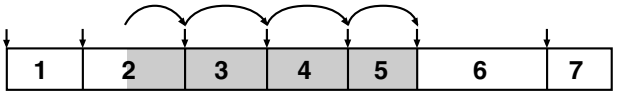
Example 1:

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.

Note

- 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.

1 **Press SEARCH** twice to display SEARCH in Stop or Play mode.

2

PROGRAM END SEARCH

SEARCH START : FF

EXIT :SEARCH

Press FF/SLOW+ on the remote to start PROGRAM END SEARCH.

- To cancel, **press PLAY** or **STOP**.

Examples of **Program End Search**.

Fig. 1

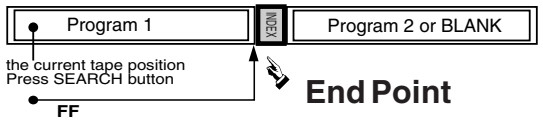


Fig. 2

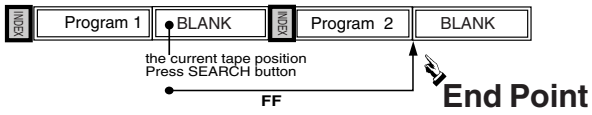
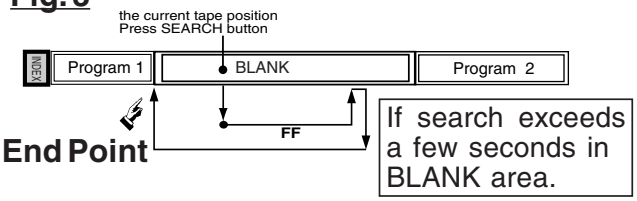


Fig. 3



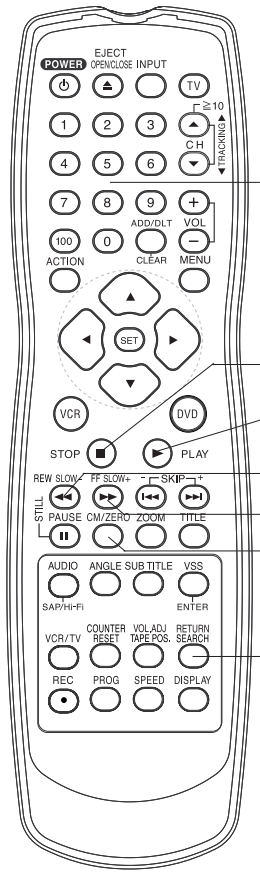
Upon locating end point,

- ➛ search continues 7 sec. past end point,
- ➛ tape rewinds to 10 sec. before end point,
- ➛ tape plays to end point and stops.

Note

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

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com



Auto Operation Functions

■ Auto Play

Insert a tape ➛ Power comes on,
➛ Play starts if there is no record tab (see p. 6).

■ Auto Rewind

Play
Fast Forward ➛ Tape end ➛ Rewind

■ Play Auto Eject

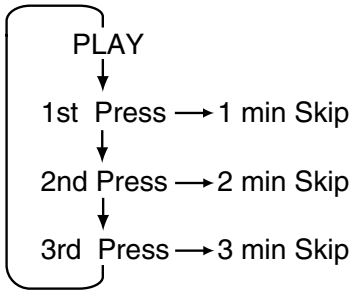
(Repeat Play must be off)
Play ➛ Tape end ➛ Rewind
➛ Tape ejects if set some programs.

Commercial Skip

VCR fast forwards (skips) over 1~3 minutes of recorded tape.

1 **Press CM/ZERO** in Play mode.

- The skip time can be changed by pressing CM/ZERO repeatedly as shown by the figure below.



- No indication appears on-screen.

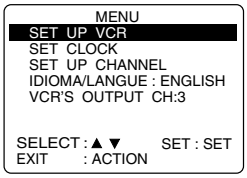
Tape Operation (continued)

Repeat Play

Set to playback a recording over and over.

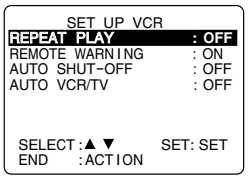
1 **Press ACTION*** to display MENU.

2



Press ▲▼ to select "SET UP VCR," and **press SET**.

3



Press ▲▼ to select "REPEAT PLAY," and **press SET** to set "ON" or "OFF."

- Play repeats at tape end or if unrecorded portion over 30 sec. is detected.

4 **Press ACTION** twice to return to normal screen.

Note

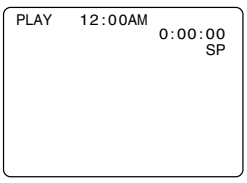
- For repeat play in DVD mode, see page 42.

Zero Search

To quickly return to a specified tape location.

1 **Press DISPLAY** during play to display Counter.

2

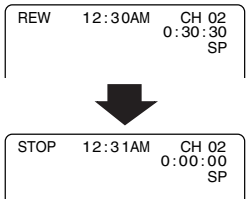


Press COUNTER RESET at desired position to reset to "0:00:00".

3 Continue to record, playback etc**.**

4 **Press STOP.**

5



Press CM/ZERO in Stop mode to start Zero Search.

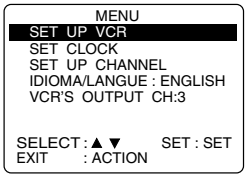
- DECK will go into FF or REW mode and stop at the last point the Counter was set to 0:00:00.

VCR/TV Selector Feature

The VCR/TV selection can be set to auto or manual.

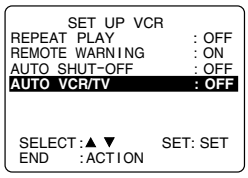
1 **Press ACTION** to display MENU.

2



Press ▲▼ to select "SET UP VCR," and **press SET**.

3



Press ▲▼ to select "AUTO VCR/TV," and **press SET** to set "ON" or "OFF."

- OFF(Manual): You select "VCR" or "TV" mode using the VCR/TV button on the remote.
- ON(Auto): "VCR" mode is automatically set when VCR is turned on, or in Play mode.

4 **Press ACTION** to return to normal screen.

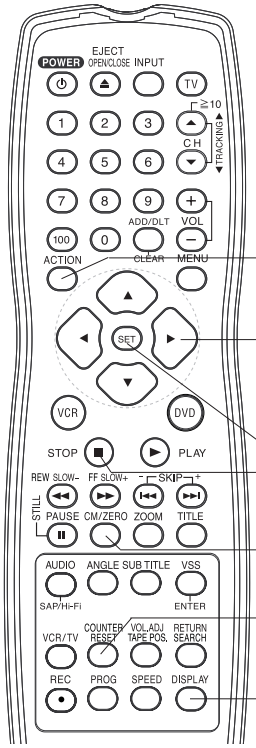
Note

- For more on VCR/TV selection, see "Record one station, watch another" and "Select channels at DECK" sections (see p. 21).

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Special VCR Features

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



ACTION

SELECT ▲▼◀▶

SET

STOP

CM/ZERO

COUNTER RESET

DISPLAY

VCR Lock Feature

When set to ON, all operations except for timer record and tape eject are prohibited. Useful for households with small children.

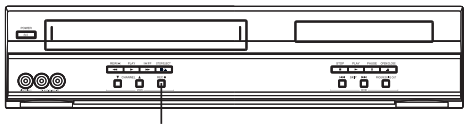
To turn on, hold down REC on DECK in Stop mode with no tape inserted for 7 seconds. (Please ignore "NO CASSETTE" warning.)

VCR LOCK ACTIVATED

To turn off, repeat above.

VCR LOCK OFF

- VCR Lock cancels in 24 hours if clock is set.



REC

Weak Signal Display Feature

When "ON," picture is displayed regardless of signal strength.

1 **Press ACTION** to display MENU.

2

MENU
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:3
SELECT : ▲ ▼ SET : SET
EXIT : ACTION

Press ▲▼ to select "SET UP CHANNEL," and **press SET.**

3

SET UP CHANNEL
ANTENNA : CABLE
AUTO SET
WEAK SIGNAL DISPLAY:OFF
SELECT : ▲ ▼ SET: SET
EXIT : ACTION

Press ▲▼ to select "WEAK SIGNAL DISPLAY," and **press SET** to set "ON" or "OFF."

- ON: Picture is displayed regardless of signal condition, and may not always be clearly visible.
  OFF: Screen turns solid blue when signal is weak or non-existent.
- Selecting ON has no effect on connected equipment with blue back feature.

4 **Press ACTION** twice to return to normal screen.

Auto Shut-Off Feature

The power shuts off at a preset time.

1 **Press ACTION** to display MENU.

2

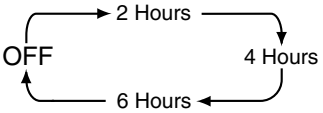
MENU
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:3
SELECT : ▲ ▼ SET : SET
EXIT : ACTION

Press ▲▼ to select "SET UP VCR," and **press SET.**

3

SET UP VCR
REPEAT PLAY : OFF
REMOTE WARNING : ON
AUTO SHUT-OFF : OFF
AUTO VCR/TV : OFF
SELECT : ▲ ▼ SET: SET
EXIT : ACTION

Press ▲▼ to select "AUTO SHUT-OFF." **Press SET** repeatedly to change shutoff time as shown below.



4 **Press ACTION** twice to return to normal screen.

Note

- The shut-off countdown will not function during Play or Record.

VCR Operation

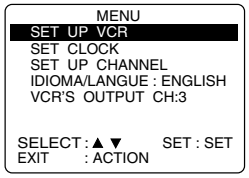
Special VCR Features (continued)

Remote Warning Feature

If Multi-brand feature is used (p. 28), and this feature is set to on, a warning appears whenever an invalid key is pressed in TV mode.

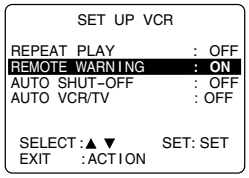
1 **Press ACTION*** to display MENU.

2



Press ▲▼ to select "SET UP VCR," and **press SET**.

3

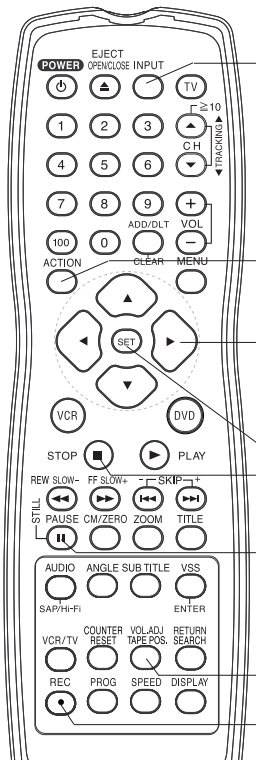


Press ▲▼ to select "REMOTE WARNING," and **press SET** to set "ON" or "OFF."

- If "OFF," remote warning will not appear when invalid key is pressed.

4 **Press ACTION** twice to return to normal screen.

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

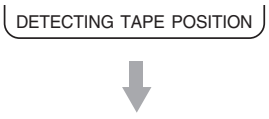


INPUT
ACTION
SELECT ▲▼◀▶
SET
STOP
PAUSE/ STILL
Tape Position
REC

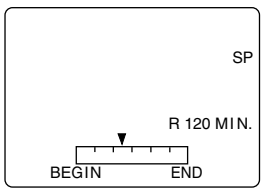
Tape Position and Tape Status Feature

To find out the present tape position and amount of tape remaining. **Tape position is displayed for VHS-C type Cassettes, tapes under 30 minute long, and some other tapes, but the position is not correct.**

1 **Press TAPE POS.** to detect current tape position.



- "DETECTING TAPE POSITION" is displayed only when a cassette is first inserted, and it takes several seconds for correct tape position to appear.



- The present tape position indication and amount of tape remaining (according to tape speed) is displayed.
- Tape remaining time display may not be precise.

2 **Press TAPE POS.** to return to normal screen.

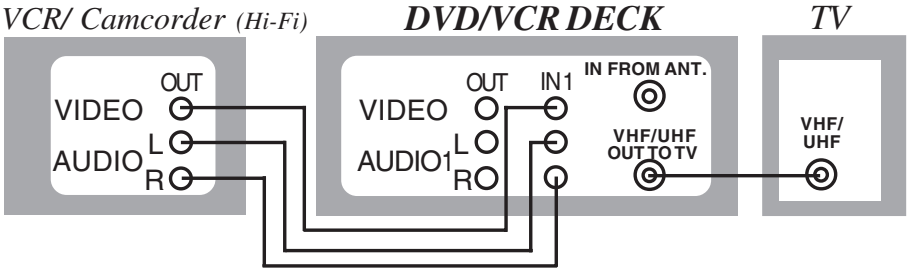
Note

This function cannot display exact amount of tape remaining for tapes 30 minutes or less, or for tapes over 120 minutes in length.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Copying Your Tapes (Dubbing)

Connection



Front of DECK



(Audio/Video In Terminals on the front of DECK are available)

① Connect VIDEO OUT terminal on Playing VCR to VIDEO IN terminal on DECK. To monitor the dubbing, also connect TV as shown.

② Connect "L" and "R" AUDIO OUT terminals on Playing VCR to "L" and "R" AUDIO IN terminals on DECK.
In place of Playing VCR, you can use other equipment, such as a Camcorder. Simply connect the unit's Audio/Video outputs to DECK.

	Playing (Source) VCR	Recording (Editing) DECK
1	Insert a pre-recorded tape.	Insert a blank tape with record tab.
2		**Press INPUT** to set DECK Input mode to LINE for Video Input. (See "Selecting the Input Mode" below.)
3	**Press PLAY**, then **PAUSE/STILL** immediately to enter PLAY/PAUSE mode.	**Press REC**, then **PAUSE/STILL** immediately to enter REC/PAUSE mode.
	The operation of steps 4 and 5 must be done on the playing and recording VCRs at the same time.	
4	**Press PLAY** to start dubbing. Playing VCR starts playback.	**Press PAUSE/STILL** to start dubbing. DECK starts recording.
5	**Press STOP** to stop dubbing.	**Press STOP** to stop dubbing.

■ To Monitor Dubbing on TV

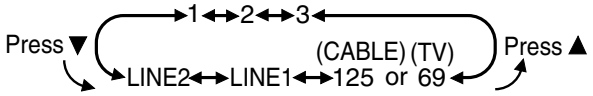
1 Turn TV on and tune to the Recording VCR channel (CH 3 or CH 4).

2 If Auto VCR/TV (see p.32) is set to "OFF," press VCR/TV on the remote to be VCR mode.

■ Selecting the Input Mode

Method 1: **Press INPUT** repeatedly.
Channel Number ↔ LINE1 ↔ LINE2

Method 2: **Press CH ▲/▼.**
Display will change as below.



- "L1" or "L2" lights up on Multi Function Display (about 4 seconds) when LINE1 or LINE2 is selected.
- LINE1: For rear audio/video connection.
  LINE2: For front audio/video connection.

Note
- Dubbing tapes protected with Copy Guard will result in poor quality recordings.

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

Disc Operation

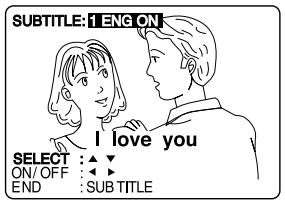
Subtitle Language (DVD only)

You can select a different subtitle language (if offered) than the one set at the Settings for DVD Operation.
(See p. 47.)

Ready Checklist

☐ Please read "Basic DVD Operation" on p. 22.

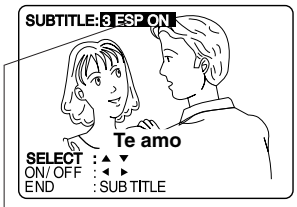
1



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.

2



Press ▲▼ to select a language.
Press ◀ ▶ to select "ON" or "OFF."

Subtitle language being played back (see chart, right).

Notes

- If after several presses of the button the language does not change, language selection is not offered on the disc.
- When 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.

[Subtitle language]
[Audio sound track language]

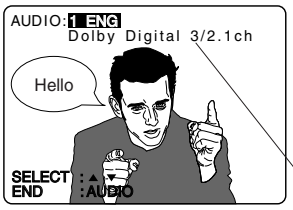
ENG	English
FRA	French
DEU	German
ITA	Italian
ESP	Spanish
NLD	Dutch
SVE	Swedish
NOR	Norwegian
DAN	Danish
POR	Portuguese
RUS	Russian
JPN	Japanese
CHI	Chinese
KOR	Korean
MAL	Malay
VIE	Vietnamese
THA	Thai
✻	Other

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

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 p. 47.)
(This operation works only with discs on which multiple audio soundtrack languages are recorded.)

1



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 or number of speaker channel.

2



Press ▲▼ to select desired language.

Audio soundtrack language being played back (see chart, above right).

[Audio attribute 1 type, sampling frequency, bit No. of the disc (see p. 48.)**]**

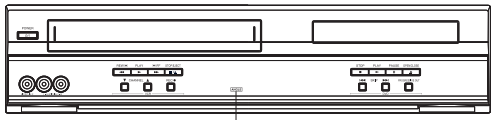
LPCM	**96 kHz or 48 kHz**	**16bit**	**Linear PCM disc**
		20bit	
		24bit	
Dolby Digital	**1ch - 5.1ch**		**Dolby Digital disc**
DTS	**1ch - 5.1ch**		**DTS disc**

Notes

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

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

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



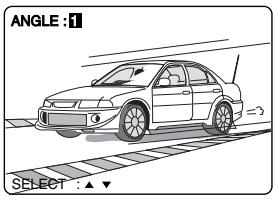
ANGLE Indicator

Notes

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

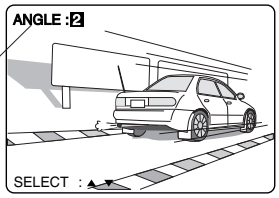
Multiple Angle Viewing (DVD only)

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.

1 

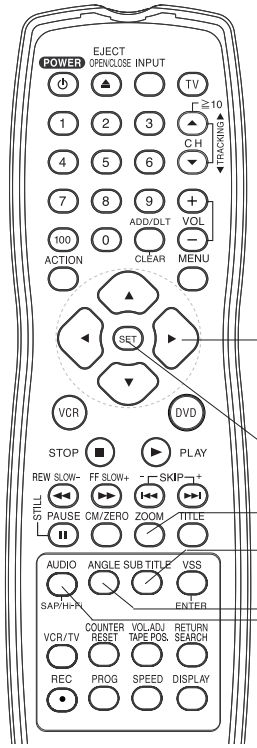
Press *ANGLE*
in Play mode to display the angle selection on-screen.

- Display disappears after 5 seconds.

2 

Press ▲▼
to select the desired angle.

Number of angle being played back.



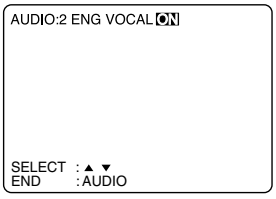
SELECT ▲▼◀▶
SET
ZOOM
SUB TITLE
ANGLE
AUDIO

Notes

- 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" appears on-screen for 5 second.
- Zooming, on some discs, may result in poor picture quality, or may not operate at all.

Vocal Selection for Karaoke Discs (DVD/Video CD)

1 **Press *AUDIO*** in Play mode to display the audio screen.

2 

Press ▲▼ (or ◀▶) to select as shown below, and **press ▲** (or ▼) to set. (DVD only)

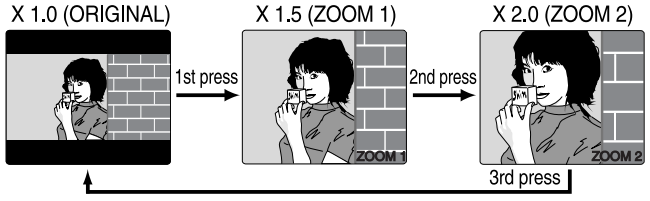
- DVD Karaoke (1 vocal) VOCAL ON ↔ VOCAL OFF
- DVD Karaoke (2 vocals) VOCAL V1 → VOCAL V2 → VOCAL V1+V2 → VOCAL OFF
- Video CD LR → L → R

Picture Zoom (DVD only)

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

Press *ZOOM* repeatedly to change display as follows.

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



■ Use the ▲, ▼, ◀ and ▶ buttons to move the position up, down, left and right.

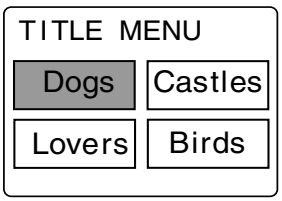
DVD Operation

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.)

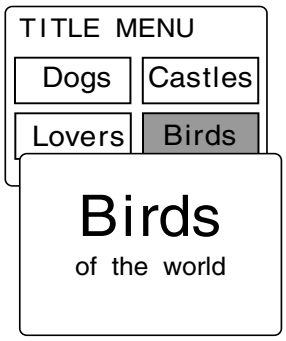
1



<Example>

Press *TITLE** in Play mode to display the title screen.

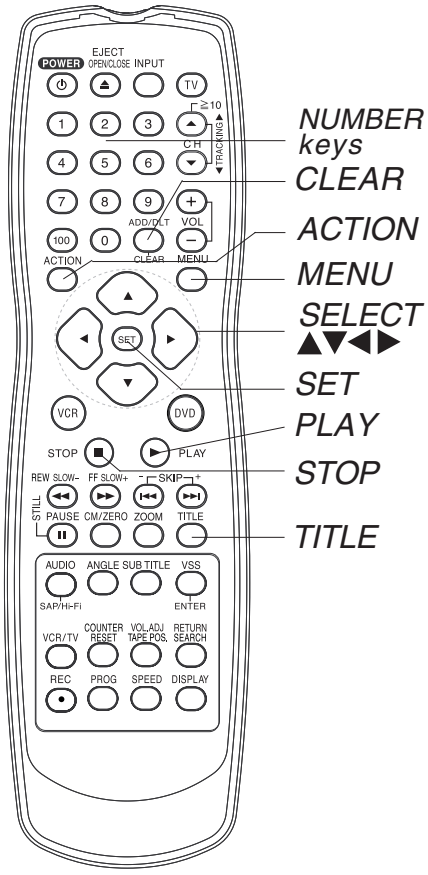
2



<Example>

Press ▲▼◀▶ or *NUMBER keys* to select a title, and **press *SET*** or ***PLAY*** to start playing.

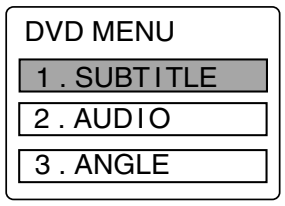
- "Pressing *SET* or *PLAY*" is not necessary when using *NUMBER keys.*



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.

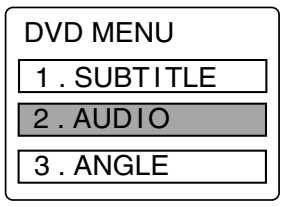
1



<Example>

Press *MENU* in Play mode to display DVD MENU.

2



<Example>

Press ▲▼◀▶ or *NUMBER keys* to select an item, and **press *SET*** or ***PLAY*** to perform.

- "Pressing *SET* or *PLAY*" is not necessary when using *NUMBER keys.*

Repeat step 2 if there is more than one menu.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

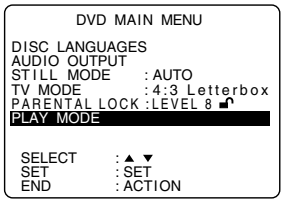
*Important: if a remote control button does not work when pressed, press the DVD button on the remote and try the button again.

Program Play (Video CD/CD only)

You can program specific tracks and order of play.

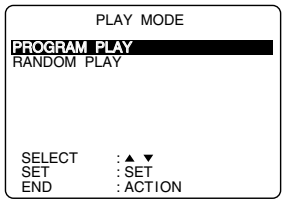
1 **Press *ACTION***
to display DVD MAIN MENU.

2



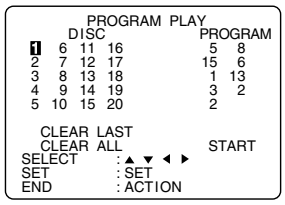
Press ▲▼
to select "PLAY MODE," and **press *SET***
to display.

3



Press ▲▼
to select "PROGRAM PLAY," and **press *SET*** to display.

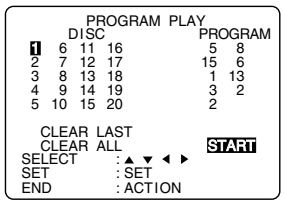
4



Press ▲▼◄►
to select a track number (Track numbers on disc are displayed.), and **press *SET***.

- Repeat step 4 to select another track.
- The selected track is added on the right side.

5



Press ▲▼◄►
to select "START," and **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 ▲▼◄► to move to "CLEAR LAST" and press *SET*. (Pressing *CLEAR* on remote control 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.)

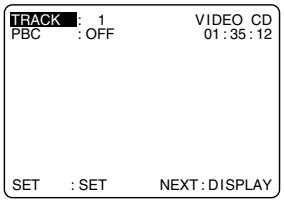
Ready Checklist

- ☐ DECK is in DVD mode, press DVD.
- ☐ Video CD or CD is inserted.

Program Repeat Play (Video CD/CD only)

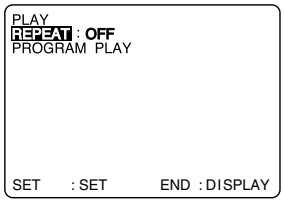
1 Do operation steps **1** through **5** at left on this page.

2 **Press *DISPLAY*** to display Disc Information screen.
(Disc Information Screen)

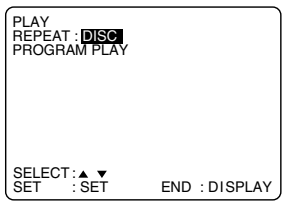


3 **Press *DISPLAY*** to display DECK Information screen.

4 **Press *SET*** to enter Select mode. Cursor move to "OFF."
(DECK Information Screen)



5 **Press ▲▼** to select "DISC."
(DECK Information Screen)



6 **Press *SET*** to set mode. Cursor move to "REPEAT."
To cancel, select "REPEAT : OFF" in step 5, then **press *SET***.

DVD Operation

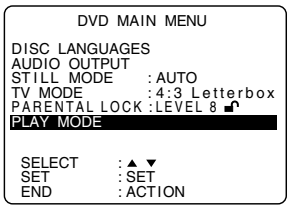
Disc Operation (continued)

Random Play (Video CD/CD only)

Tracks are played in a random order.

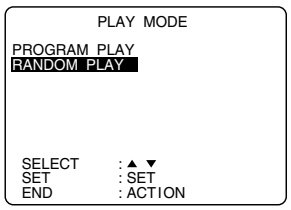
1 **Press *ACTION**** to display DVD MAIN MENU.

2



Press ▲▼ to select "PLAY MODE," and **press *SET*** to display.

3



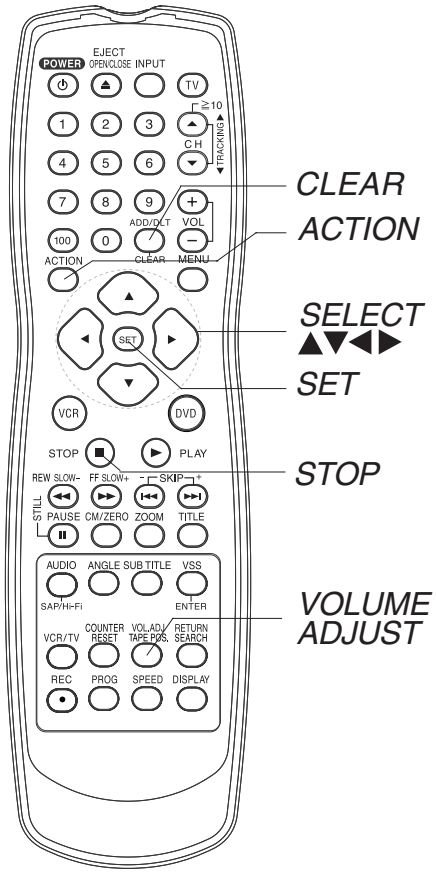
Press ▲▼ to select "RANDOM PLAY," and **press *SET*** to begin random play.

- To cancel, **press *STOP*** during play, then **press *CLEAR***.

Ready Checklist

☐ DECK is in DVD mode, press DVD.

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



Setting the VOLUME ADJUST

Some DVD are recorded in lower average volume level. For these DVD, this DECK can be set so that the average volume is increased.

Press *VOL.ADJ* repeatedly to change "ON" ↔ "OFF."

- "ON" or "OFF" lights up on Multi Function Display (about 3 seconds) when press VOL.ADJ.

	VOLUME ADJUST "OFF"	VOLUME ADJUST "ON"
Some DVD [Volume level is low]	Volume is the original level.	Volume level is increased when played back.

- "ON" is set ..... When a DVD is played back, the average volume is increased.
- "OFF" is set .... The volume level recorded on the disc is played back just as it is.

Notes

- When audio equipment is connected, setting the Sound Output level to "OFF" is recommended.
- If the sound becomes abnormal while playing a disc, set the Sound Output level to "OFF."

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

DVD Operation using On-Screen Displays

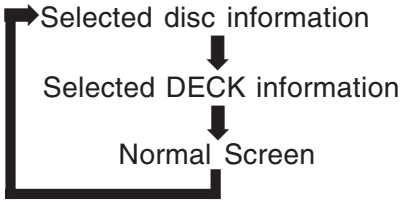
When *DISPLAY* is pressed, On-Screen Displays show disc information (title/chapter/track number, elapsed playing time) and DECK information (repeat play, play mode).

Ready Checklist

☐ DECK is in DVD mode, press DVD.

1 **Press *DISPLAY*** in Play or Stop mode to display "On-Screen Displays."

- Each **press** of ***DISPLAY*** changes the on-screen display as follows. (Refer to p. 42.)



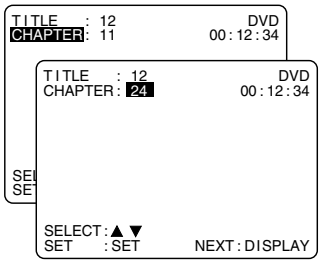
Note

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

2 **Press ▲▼** (or ◀▶) to select an item, and **press *SET***.

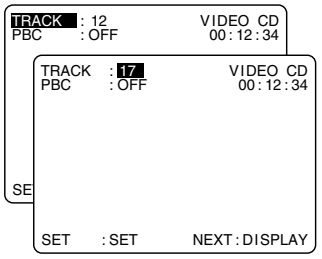
3 **Press ▲▼** or ***NUMBER keys*** to select the setting, and **press *SET***.

<Example of DVD>

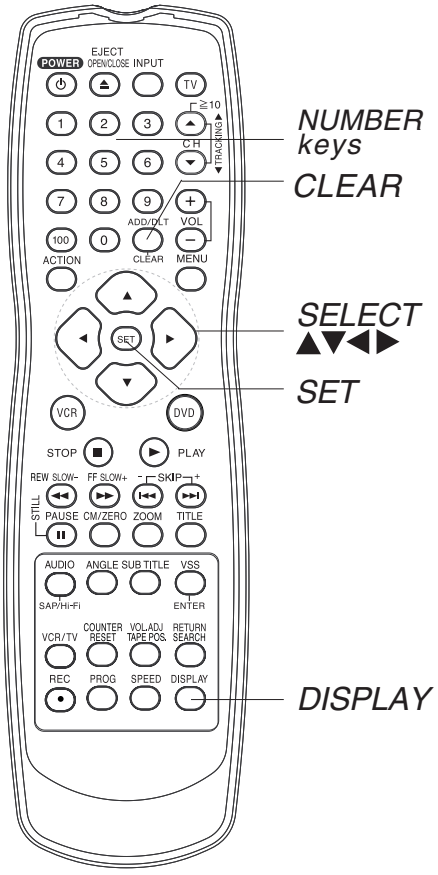


- When numbers are displayed (e.g. title number), *NUMBER keys* are also available.
- If the number entered is not on the disc, the entry will have no effect. Re-enter the correct number.
- For more details, refer to the disc operation information.

<Example of Video CD>



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



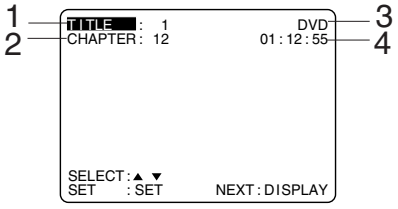
Notes

- When ***DISPLAY*** button is pressed during playback of a Video CD with Playback control, ***NUMBER keys*** are not available on the displayed screen. In this case, **press *DISPLAY*** again to remove the displayed screen.
- When ⃠ appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by DECK or the disc.

DVD Operation

Detailed Descriptions of each On-Screen Display

■ Disc information screen (for DVD)



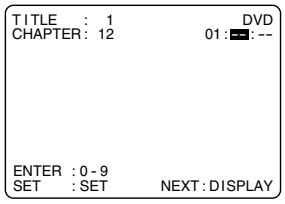
1. TITLE No.
- Select “TITLE”, and **press *SET***.*
- Change the No. by **pressing ▲▼** or ***NUMBER keys***, and **press *SET***.

2. CHAPTER No.
- Select “CHAPTER”, and **press *SET***.
- Change the No. by **pressing ▲▼** or ***NUMBER keys***, and **press *SET***.

3. Disc currently being played

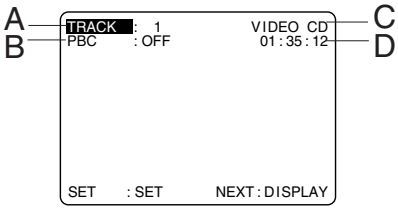
4. Elapsed playing time

The screen may be changed by selecting the elapsed time.
- Select the elapsed playing time (“xx:xx:xx”), and **press *SET***.
- Change the elapsed time by **pressing *NUMBER keys***.
  Hours ➛ Minutes ➛ Seconds are entered in order.
  If the time entered is not on the disc, the entry will have no effect.
  Re-enter the correct time.
  e.g., press 0 - 1 - 2 - 3 - 4 - 5 for 01 : 23 : 45.
  Hour Minutes Seconds
- This function does not work with some discs.



If SET is pressed while making entries, unit returns to the condition before entries were made.

■ Disc information screen (for Video CD/ CD)



A. TRACK No.
- Select “TRACK”, and **press *SET***.
- Change the No. by **pressing ▲▼** or ***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 not displayed.

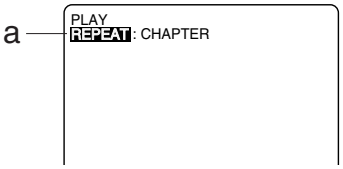
C. Disc currently being played

Video CD	CD

D. Elapsed playing time

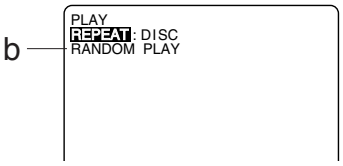
Note
- Track No. and the elapsed playing time are not displayed during play started from menu of Video CDs with playback control.
- When ⃠ appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by DECK or the disc.

■ DECK information screen (for DECK)



a. Repeat Play
- Select “REPEAT”, and **press *SET***.
- Change the desired mode during play by **pressing ▲▼**, and **press *SET***.

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

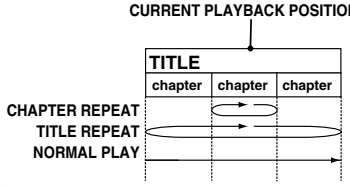


b. Play mode [Video CD/ CD only] (See p. 39 or 40.)

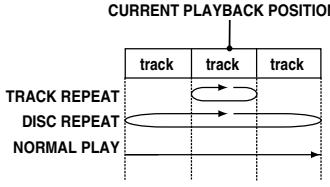
PROGRAM PLAY	program play
RANDOM PLAY	random play
– – – –	normal play

For your reference

• CHAPTER/TITLE REPEAT PLAY (DVD)



• TRACK/DISC REPEAT PLAY (Video CD/CD)



Note
- For repeat play in VCR mode, see p. 32.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

MP3/JPEG Playback Operation

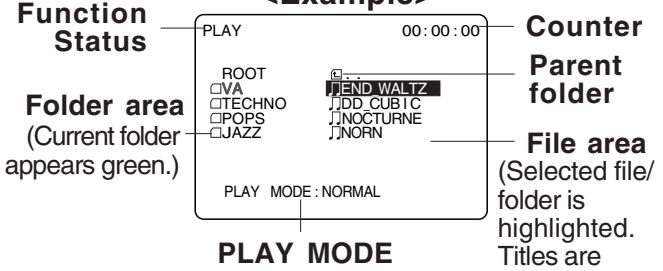
This unit can play MP3/JPEG format CD-R or CD-RW recorded for personal use on a PC, etc.
Some discs may not play due to the condition of the recording.

1 **Press *POWER*** on the remote or DECK.

2 **Press *OPEN/CLOSE*,** then place an MP3/JPEG disc into the disc tray.
Press *OPEN/CLOSE* to close.

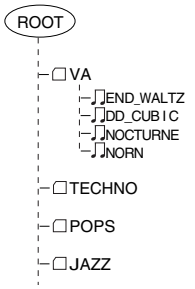
3
- MP3/JPEG menu is displayed.
- Playback starts automatically (except JPEG files).
- CD directory is displayed.

<Example>



♫:MP3 file :Folder
:Parent folder :JPEG file

<Example> (Diagram left shows CD directory structure as displayed in example OSD above.)



Notes
- Only File (not Folder) area operation is possible.
- Files are displayed in the following order: (!...0,1....9,A,B.....Z).

4
- **Select file** (During STOP mode)
1) **Press ▲▼** to select an MP3 file (♫).
➡ MP3 Playback (see right)
2) **Press ▲▼** to select a JPEG file ( ).
➡ JPEG Playback (see p.44)
3) **Press *SKIP* ▶▶I** (next) or **I◀◀ *SKIP*** (previous) to skip a file/folder page (7files) in the File area.
- **Select folder** (During STOP mode)
1) **Press ▲▼** to select a folder ( ).
2) **Press *SET*** to display files/folders contained in the folder.
- **Select parent folder** (During STOP mode)
1) **Press ▲▼** to select a folder ( ).
2) **Press *SET*** to make changes to the previous directory display.

5 **Press *ACTION*** to return the DVD MAIN MENU. (➛ Press ***ACTION*** again to return the MP3/JPEG MENU.)

MP3 Playback

Do steps 1~3 on left.

a **Press ▲▼** to select an MP3 file (♫).
(During STOP mode)

b **Press *SET*** or ***PLAY*** to start playback.

■ **Forward/Reverse Search**
Press *FF/SLOW+* or ***REW/SLOW-*** during play.
Press *PLAY* to release.
- Search speed, slow at first, increases with each additional press of the button up to 5 levels.

■ **Forward/Reverse Track Skip**
Press *SKIP* ▶▶I or **I◀◀ *SKIP*** during play.
Each press skips a track.
- If pressed within first 3 seconds of playback, skips to the previous track. If over 3 seconds, returns to top of track. (**I◀◀ *SKIP*** only.)
- Put DECK in Stop mode before performing folder/file selection (see step 4.)

■ **Pause**
Press *PAUSE* during play.
Press *PLAY* to release.

c **Press *STOP*** to stop play.

d **Press *OPEN/CLOSE*** to eject the disc.
The MP3/JPEG is closed automatically.

■ **Select PLAY MODE [MP3 Playback]**
(During STOP mode)
1) **Press ◀▶** to move cursor to PLAY MODE.
2) **Press ▲▼** to select the desired PLAY MODE (see below).

[PLAY MODE]

NORMAL: All MP3 files are selected and played back one time only.
SINGLE REPEAT: The selected MP3 file is played back repeatedly.
FOLDER REPEAT: The MP3 files contained in the selected folder are played back repeatedly. However, folders below the selected folder are not played back.
DISC REPEAT: All MP3 files are played back repeatedly.

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

JPEG Playback

You can play back JPEG images.

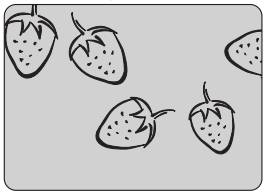
Displayable Image Size: 32x32~7680x7680 pixels

Note • Some JPEG format may not be played back.

Do steps 1~3 on page 43.

1 **Press ▲▼** to select an JPEG file (📷).

2 **Press *SET*** or ***PLAY***.
Selected JPEG file is displayed.
[JPEG Playback Screen]


<Example>

- **Returned on the MP3/JPEG MENU**
  ➡ **Press *STOP***. (See p.43)
- **Next/Previous Search**
  ➡ **Press *SKIP* ▶▶I** or **I◀◀ *SKIP***.
- **Start Slide-show ➡ Press *FF/SLOW+*** or ***REW/SLOW-***. (below)
- **Enlarging an image ➡ Press *ZOOM***. (P.45)
- **Rotating an image ➡ Press *ANGLE***. (P.45)

3 **Press *STOP*** to return the MP3/JPEG MENU.

JPEG Slide-show

(During JPEG Playback.)
JPEG files are displayed automatically (about every 3 seconds) as a slide-show.

1 **Press *FF/SLOW+*** or ***REW/SLOW-***.

<Example>

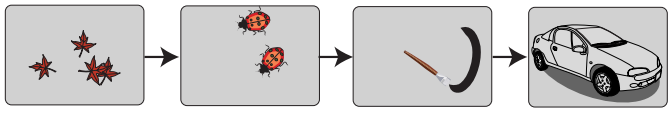


Image changes every 3 seconds.

- **Cancel slide show**
  ➡ **Press *STOP*** to return the MP3/JPEG MENU. (See p.43)
- **Still picture**
  ➡ **Press *STILL*** (only SLIDE).
  ➡ **Press *PLAY*** to release.
- **Forward/Reverse File Skip**
  ➡ **Press *SKIP* ▶▶I** or **I◀◀ *SKIP***.
  Each press skips a file.

2 **Press *ACTION*** to return the DVD MAIN MENU.

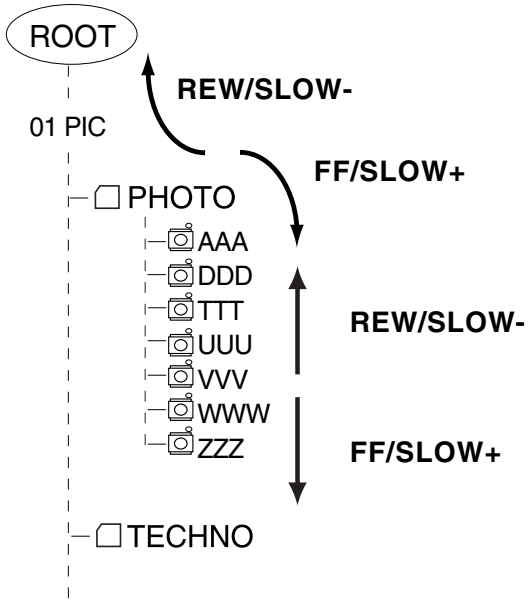
- **Select PLAY MODE [JPEG Slide-show]**
  (During STOP mode) (See p.43)
  1) **Press ◀▶** to move cursor to PLAY MODE.
  2) **Press ▲▼** to select the desired PLAY MODE (see below).

[PLAY MODE]

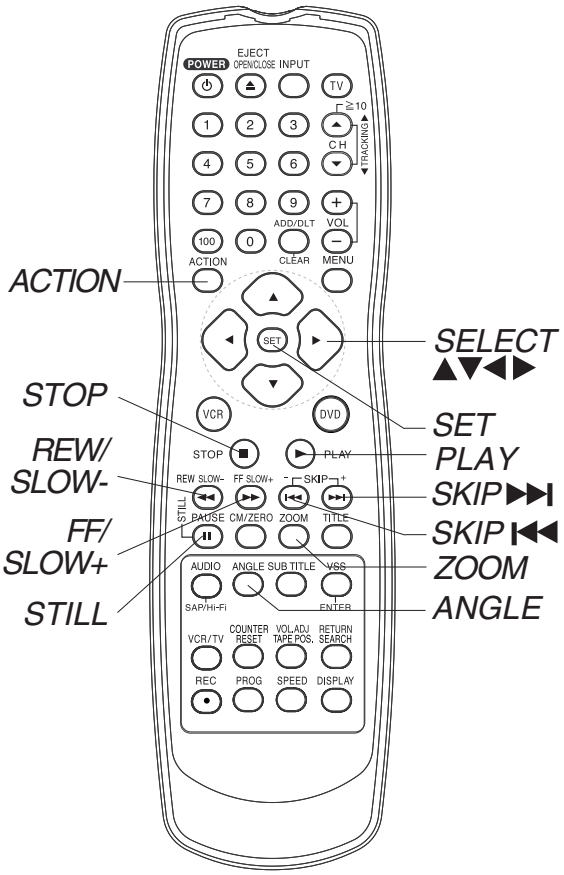
NORMAL: All JPEG files are selected and played back one time only.
SINGLE REPEAT: The selected JPEG file is played back repeatedly.
FOLDER REPEAT: The JPEG files contained in the selected folder are played back repeatedly. However, folders below the selected folder are not played back.
DISC REPEAT: All JPEG files are played back repeatedly.

<Example>

Operation can be done when files are in order, such as in the diagram below.



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JPEG Zoom

(During JPEG Playback.)

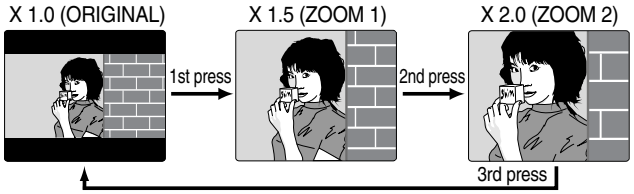
You can enlarge specific portions of a JPEG picture and select the zoom ratio using the ZOOM button on the remote during JPEG Playback screen.

Set Zoom size.

Press *ZOOM* repeatedly to change display as follows.

➡ **Press *STOP*** to return the MP3/JPEG MENU.

- You can enlarge the center portion of the image to one of 2 magnifications.
- Operation can be done during Rotation (below).



■ Use the ▲, ▼, ◀ and ▶ buttons to move the position up, down, left and right. (Position cannot be changed on X1.0 ORIGINAL images.)

JPEG Rotation

(During JPEG Playback.)

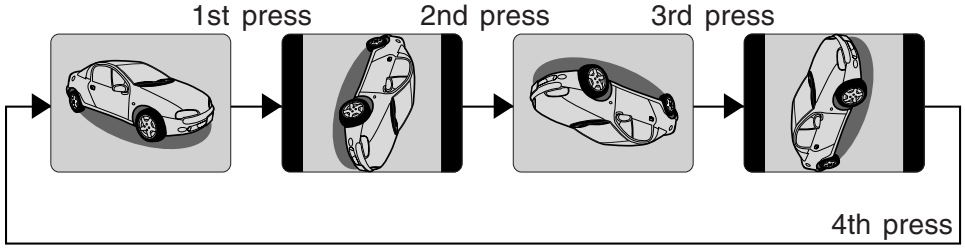
You can rotate a JPEG picture using the ANGLE button on the remote during JPEG Playback screen. (The JPEG picture will be rotated 90 ° clockwise.)

Set rotation.

Press *ANGLE* repeatedly to change display as below.

➡ **Press *STOP*** to return the MP3/JPEG MENU.

- Operation can be done during Zoom (above).
- The vertical/horizontal ratio of rotated JPEG images may vary when they are displayed.



MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

MP3 PLAYBACK

DVD Lock Feature

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

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

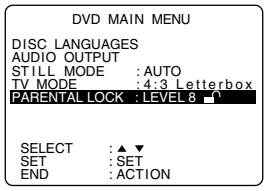
- Some DVDs are encoded with a rating level. If the disc rating is higher (stricter) than the one you preset, playback will be prohibited.

DVD Lock (DVD only)

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

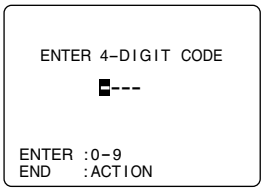
1 **Press *ACTION****
to display DVD MAIN MENU.

2



Press ▲▼
to select "PARENTAL LOCK," and
press *SET* to display.

3

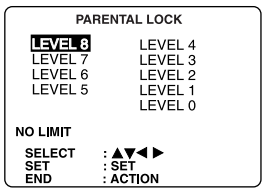


1) **Press *NUMBER keys***
to enter your secret code.
2) Enter same secret code again for confirmation.
3) **Press *SET*** to display.

- Step 2) not necessary when changing rating or secret code.
- Take care that you are not observed entering the secret code.

To Make Corrections
Press ◀ repeatedly to move the cursor.
Press *NUMBER keys* to make the correction.

4



Press ▲▼◀ ▶
to select rating level, and
press *SET*
to select "LOCKED" or "UNLOCKED."

LEVEL 0 : LOCK ALL, Playback of all DVDs, CDs, Video CDs, MP3 and JPEG is prohibited.
(Use to prohibit play of mature theme DVDs not encoded with rating level.)
LEVEL 1 : mature theme DVDs
LEVEL 2 : DVDs expressly for children can be played back.
LEVEL 3 to 7 : DVDs for general audiences/children can be played back. (DVDs with mature content are prohibited.)
LEVEL 8 : NO LIMIT: (Factory preset)
All DVDs can be played back.

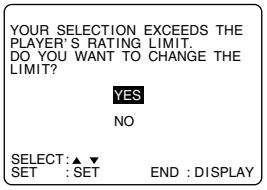
☑ Ready Checklist

☐ DECK is in DVD mode, press DVD.

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.

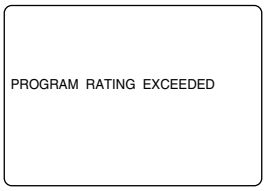
<When DVD Lock is activated>



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 (see step 3 left).
When "NO" is selected, blocked programs cannot be viewed.

<When blocked programs>



Change your secret code

- You will need your current code.
  Do step 1 ~ 2 left.
  Enter current secret code.
  Press *CLEAR* to clear the code.
  Do step 4 to enter new code.

Note

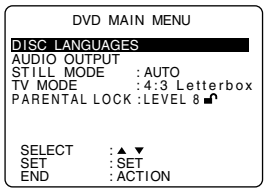
- DO NOT forget your secret code.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Settings for DVD Operation

1 **Press *ACTION***
to display DVD MAIN MENU.

2



Press ▲▼
to select an item, and
press *SET*.

DISC LANGUAGES (See below)
All languages offered on the disc can be set.
If the language not offered is set, the original disc language will be selected.

AUDIO OUTPUT (See p. 48.)
You can set the audio output that comes from the digital audio output terminal.

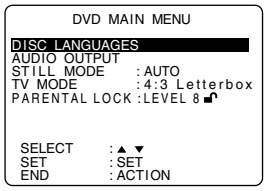
STILL MODE (See p. 49.)
To select "FIELD" (Field still) or "FRAME" (Frame still) to prevent jitter or make small text or fine patterns clearly visible in a still picture. When "AUTO" is set "FIELD" or "FRAME" is selected automatically.

TV MODE (See p. 49.)
To select whether the video material for a wide-screen will be played back in the Pan & Scan style, Letterbox style or 16 : 9 style.

Disc Languages (DVD only)

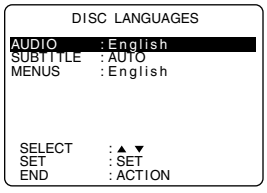
To select and set the language of the audio soundtrack, subtitles, or title/DVD menus for all discs to be played.

3



Press ▲▼
to select
"DISC LANGUAGES," and
press *SET*
to display screen.

4



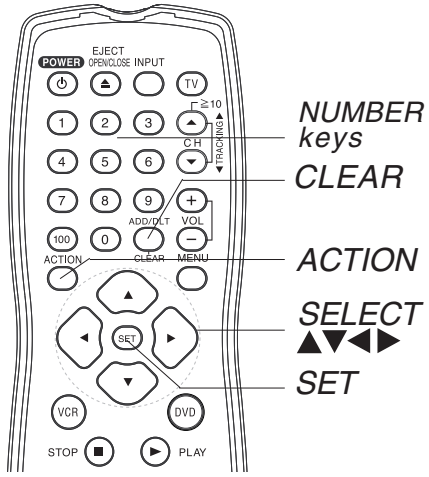
Press ▲▼
to select an item, and
press *SET* repeatedly for desired language.
(Please refer right.)

5 **Press *ACTION*** to redisplay DVD MAIN MENU and go to step 2 to setup another item.
Or, **press *ACTION*** twice to exit.

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

Ready Checklist

☐ DECK is in DVD mode, press DVD.



"AUDIO" selections
(Factory preset: English)
To select the audio soundtrack language.
English/Spanish/French/Japanese
Original: Original disc language
OTHER ✱✱✱✱: Other language selection*1

"SUBTITLE" selections
(Factory preset: AUTO)
To select the subtitle language.
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/Japanese
OTHER ✱✱✱✱: Other language selection*1

"MENUS" selections
(factory preset: English)
To select the language used in title menus or DVD menus.
English/Spanish/French/Japanese
OTHER ✱✱✱✱: Other language selection*1

To enter OTHER ✱✱✱✱ code number,
Press *NUMBER keys* (Please refer to language codes on p. 50).
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.

DVD Operation

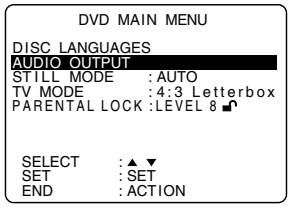
Settings for DVD Operation (continued)

Audio Output

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

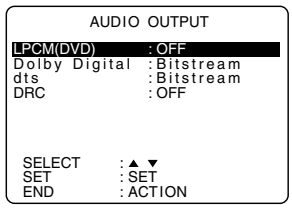
1 **Press *ACTION**** to display DVD MAIN MENU.

2



Press ▲▼ to select "AUDIO OUTPUT," and **press *SET*** to display screen.

3



Press ▲▼ to select an item, and **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, no digital audio is output. (Factory preset)

PCM: When playing DVDs recorded in linear PCM of 48 kHz/20 bit/24 bit or more, digital audio converted to 44.1 kHz/16 bit or 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)

PCM: When you have connected a amplifier that doesn't have a built-in Dolby Digital decoder.

■ "dts" selections

Bitstream: DTS bitstream is output. (Factory preset)

PCM: When you have connected a amplifier that doesn't have a built-in DTS decoder.

■ "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].

4 **Press *ACTION*** to redisplay DVD MAIN MENU and go to step 2 to setup another item.
Or, **press *ACTION*** twice to exit.

☑ Ready Checklist

☐ DECK is in DVD mode, press DVD.

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

- Make settings according to amplifier connected to optical audio output as shown in above table.

*1 When connecting an amplifier (with an optical digital input connector) which does not contain the Dolby Digital or DTS decoder, be sure to select "PCM". 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.

*2 When a DTS decoder is connected, please select "Bitstream" in "dts".

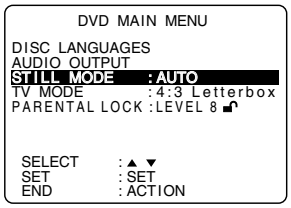
For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Still Mode

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

1 **Press *ACTION***
to display DVD MAIN MENU.

2



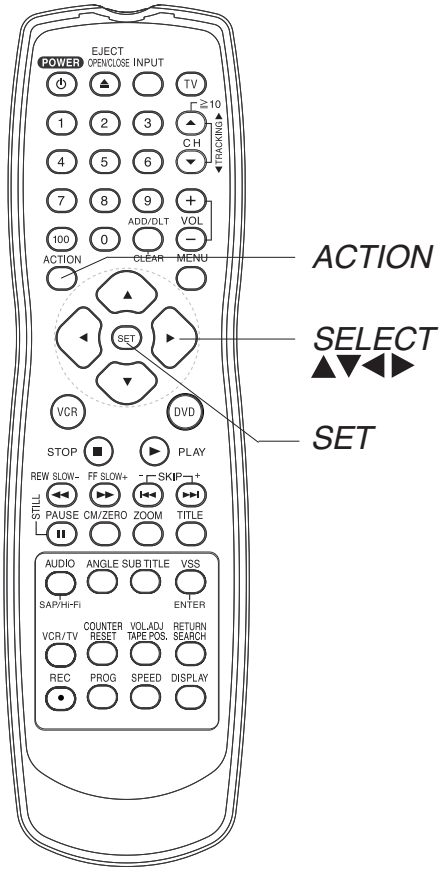
Press ▲▼
to select “STILL MODE,” and
press *SET* repeatedly for mode. (See below.)

AUTO: “FIELD” (Field still) or “FRAME” (Frame still) is automatically selected during the still mode. (Factory preset)

FIELD: “FIELD” (Field still) is always selected. This setting will reduce jitter when compared with “AUTO” on some discs.

FRAME: “FRAME” (Frame still) is always selected. Some texts and fine patterns will be seen clearly when compared with “AUTO” on some discs.

3 **Press *ACTION***
to exit this mode.

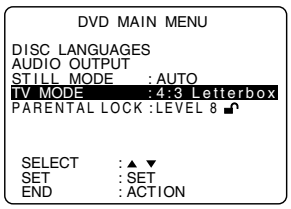


TV Mode

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

1 **Press *ACTION***
to display DVD MAIN MENU.

2



Press ▲▼
to select “TV MODE,” and **press *SET*** repeatedly for mode. (See below.)

4:3 Pan & Scan (Factory preset) :
Wide-screen video data is played in Pan & Scan style (left and right of screen is trimmed.)
- Video data not formatted in Pan & Scan will play in letterbox style.

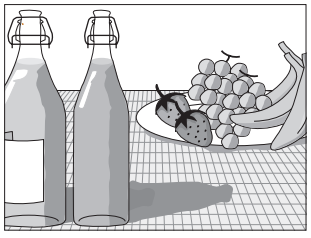
4:3 Letterbox :
Wide-screen video data is played in Letterbox style (top and bottom of screen has black margin).

16:9 :
Set “16:9” when using Wide-screen TV.

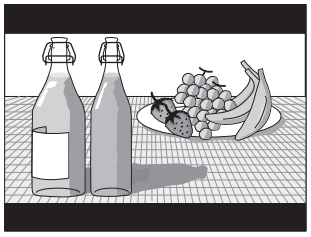
3 **Press *ACTION***
to exit this mode.

Example

- Pan & Scan (Factory preset)



- Letterbox



Language Code List

Enter the appropriate code number for the initial settings “AUDIO”, “SUBTITLE” and/or “MENUS” (see p. 47).

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

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

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

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

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Warning and Instruction Displays

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

OSD	Caution	Page
PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set...	24
PLEASE PREPARE FOR TIMER REC	If DECK is not in Stop mode or a cassette with record tab is not inserted 2 minutes before a Timer Recording is about to begin...	24 25
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or DECK, and a cassette is inserted with no record tab...	6
NO CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or DECK without a cassette inserted...	20 21
TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC	If you press STOP or POWER during a Timer Recording... (visible in VCR mode only)	25
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 DECK is in VCR Lock mode...	33
REMOTE CONTROL IS SET TO TV MODE **USE VCR : VCR KEY** **USE DVD : DVD KEY**	If you press an invalid key on the remote while in TV mode...	28 29 34
PLEASE CHECK THE DISC, AND FOR STAINS OR SCRATCHES ON DISC	If you press PLAY, and the DECK reads data from a stained or scratched disc in DVD mode.	4
THIS DISC MAY NOT BE PLAYED IN YOUR REGION	Playback of a disc with different region number was attempted. Only discs marked region “1”, “ALL”, or those that include “1” are playable on this DECK.	3
THIS TYPE OF DISC CANNOT BE PLAYED. PLEASE INSERT A DIFFERENT DISC	An unusable disc is inserted in the DECK.	4
CANNOT PLAY THIS FILE	This file format cannot be played. (Appears during MP3/JPEG file playback)	43
IT IS PROHIBITED TO COPY DVD/VIDEO CD/CD TO VHS	If you press REC in DVD mode...	21

Before Requesting Service

Check the following points if you are having trouble with your DECK.

Power	Correction
No power…	• Completely insert Power Plug into an AC outlet. • Set POWER button to on. • Make sure power source is active.
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. (pp. 23, 33)
Recording & Playback	**Correction**
TV program cannot be recorded...	• Check connections between DECK, external antenna, and TV. • Check channel selections. • Make sure your antenna system (CABLE or TV) is correctly set. (Channels [p. 18]) • Make sure cassette record tab is intact. (p. 6)
Timer recording cannot be performed…	• Confirm that clock is set to current time and date. • Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded. • Set recording start/stop times correctly. (p. 24) • Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored.
There is no playback picture, or the playback picture is noisy or contains streaks...	• Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (p. 16) or select LINE. • Set VCR/TV selector to “VCR.” • Adjust TRACKING control in either direction. (p. 6) • Try Head Cleaning. (p. 6)
During special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control...	• Set TV’s Vertical Hold Control to MANUAL, then adjust.
DECK cannot be controlled...	• Make sure DECK power is on. • Check Remote batteries. • Make sure VCR LOCK is set to off. (p. 33) • Make sure Remote is in proper mode. (p. 28) • Make sure Timer Recording is not in progress.
Remote Control	**Correction**
DECK cannot be remote controlled...	• Make sure DECK power is on. • Make sure Remote is in VCR mode. • Aim Remote Control directly at remote sensor on DECK. (p.9) • Avoid any object blocking signal path. • Check Remote batteries. (p. 4) • Exposing DECK remote sensor to direct fluorescent or outdoor light may cause signal interference.
PROG buttons do not respond...	• PROG functions are not available in COMPONENT Video Output and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10) • Check Remote batteries. (p. 4) • Press VCR or DVD button for DVD/VCR mode. (p. 28)

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Check the following points if you are having trouble with your DECK.

DVD/ Video CD/ CD	Correction
Play fails to start even when PLAY is pressed...	• This DECK 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 Scene Search play...	• Some discs may have sections which prohibit Forward/Reverse Scene Search. (p. 23)
Play does not start even when title is selected...	• Confirm the “DVD LOCK” setting. (p. 46)
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. • “OFF” is selected at the changing subtitle language. Select “ON” at the “Subtitle Languages” section (p. 36) to display the 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 MAIN 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 DECK lights up). (p. 37)
Miscellaneous	**Correction**
Programs cannot be viewed on TV...	• Make sure TV is set to output of DECK. • Check connections between DECK, external antenna, and TV. • Set VCR/TV selector to “TV.” (p. 21) • Make sure proper signal source is selected.
Video cassette cannot be inserted...	• Insert the cassette with window side up; record tab facing you.
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. 6)
In Stop mode, the motor (CYLINDER) continues to rotate...	• To enable Quick play mechanism, the cylinder will rotate for about 3 minutes. This reduces response time from Stop to Play mode.
The disc cannot be removed..	• First, unplug DECK. Then, prepare a rigid wire (e.g. an extended paper clip) 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)

If you cannot resolve the problem, please call the Customer Call Center for product assistance at 1-800-211-PANA (7262).
To locate an authorized servicenter, please call toll free 1-800-211-PANA (7262).
or send e-mail to : consumerproducts@panasonic.com

Limited Warranty

PANASONIC CONSUMER ELECTRONICS COMPANY,
DIVISION OF MATSUSHITA ELECTRIC
CORPORATION OF AMERICA
One Panasonic Way Secaucus, New Jersey 07094

PANASONIC SALES COMPANY, DIVISION OF MATSUSHITA
ELECTRIC OF PUERTO RICO, INC.,
AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park,
Carolina, Puerto Rico 00985

Panasonic/Quasar Video Products
Limited Warranty

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

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

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product or arrange for in-home service, as applicable, during the warranty period.
If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-In, Mail-in or In-Home Service
For Carry-In, Mail-In or In-Home Service (as applicable) in the United States call toll free contact number listed above or visit Panasonic Web Site: http://www.panasonic.com
For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.
In-Home service, if applicable, requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain in-home repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Limited Warranty Limits And Exclusions

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

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer, loss of media or images, data or other memory or recorded content. The items listed are not exclusive, but are for illustration only.)

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

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

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

Customer Services Directory

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:
1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST.
or send e-mail : consumerproducts@panasonic.com
For hearing or speech impaired TTY users, TTY : 1-877-833-8855

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)
For hearing or speech impaired TTY users, TTY : 1-866-605-1277
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)

Service in Puerto Rico
Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787)750-4300 Fax (787)768-2910

As of August 2002

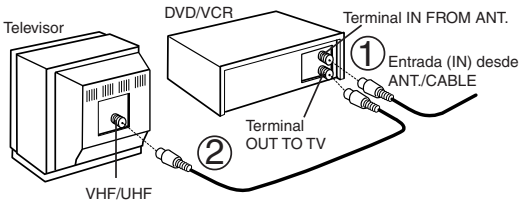
CONEXIONES/CONFIGURACION INICIAL (READY TO PLAY)

Realice la conexión de la antena o TV por cable antes de enchufar el cable de CA.
EL DVD/VCR iniciará automáticamente la fijación de los canales y del reloj al enchufar el cable de CA.

CONEXIONES

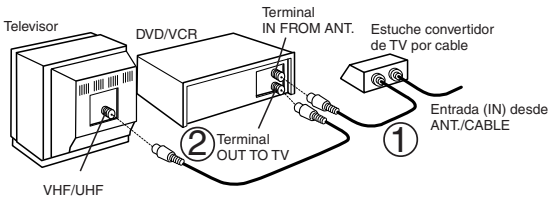
Para Ant/Cable ➔ DVD/VCR ➔ TV

① Conecte el cable de la antena al terminal IN FROM ANT del DVD/VCR.
② Conecte el terminal OUT TO TV del DVD/VCR a la entrada de la antena VHF/UHF del TV con el cable RF incluido.



Para Sistema Digital de Satelite (DSS)/ Convertidor de cable ➔ DVD/VCR ➔ TV

① Conecte la salida de convertidor de cable al terminal IN FROM ANT.
② Conecte el terminal OUT TO TV del DVD/VCR a la entrada de la antena VHF/UHF del TV con el cable RF incluido.



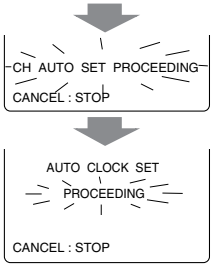
CONFIGURACION INICIAL

1 Encienda el TV y cambie al canal 3.

2 Enchufe el cable de CA.
El DVD/VCR se encenderá e iniciará las fijaciones de los canales y del reloj.

- Si no aparece la pantalla de abajo, compruebe la conexión del DVD/VCR-TV y si el canal del TV está a 3, intennte cambiando al canal 4.
- Para cambiar el canal de salida del DVD/VCR, consulte las instrucciones de “Canal de salida del VCR” (informaciones en inglés página 19).

Enchufe el cable de CA.



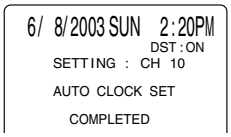
Al inicio, el idioma de la pantalla está fijado a inglés.
Para cambiar el idioma, seleccione la pantalla MENU (informaciones en inglés página 18).

Si está usanndo un convertidor de TV por cable y en su area hay un canal de Public Broadcast Station (PBS), ajuste su convertidor al canal PBS de su area. Si está usando un receptor DSS, este debe estar apagado.

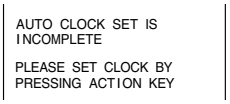
Nota

- Los botones de funciones no funcionan durante la configuración inicial.
- Para retirar un cassette durante el ajuste automático, presione EJECT en el control remoto o STOP dos veces en el aparato. En este caso, los ajustes de los canales y la hora se deben hacer manualmente. Para los ajustes seleccione la pantalla MENU (informaciones en inglés página 18).
- Dependiendo de las condiciones, el ajuste automático puede durar más de 30 minutos. En ese caso, presione STOP para detener el ajuste automático y realice los ajustes manualmente en la pantalla MENU.

3 Las fijaciones se realizan automáticamente. Cuando termina las fijaciones, aparecerá la siguiente pantalla.



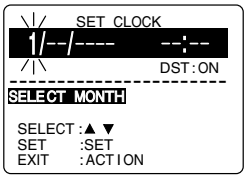
Si aparece en la pantalla “AUTO CLOCK SET IS INCOMPLETE (FIJACION AUTOMATICA DEL RELOJ ES INCOMPLETO)”, Ajuste el reloj como se describe a continuación.



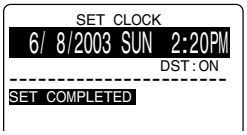
AJUSTE MANUAL DEL RELOJ

Si la fijación ha sido incompleta.

1 Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú SET CLOCK.



2 Presione ▲ ▼ para seleccionar el mes y SET para ajustar. De la misma forma, seleccione y ajuste la fecha, año, hora y DST (hora de verano).



3 Presione dos veces la tecla ACTION para poner el RELOJ en marcha y salir.

PRECAUCIÓN
Al usar cables coaxiales RF del tipo “tuerca”, apriételos solamente con los dedos. Un apriete excesivo puede dañar los terminales.

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

Operaciones básicas para la reproducción

1 **Inserte un cassette**,
- La alimentación del DECK se activa. En la Pantalla de Visualización Multi Función se ilumina “VCR”.

2 **Presione PLAY** para reproducir el cassette.
- Si el cassette no tiene la lengüeta de prevención de grabación (página 6), se inicia la reproducción automáticamente.

Detalles especiales durante la grabación

- **Presione FF/SLOW+** o **REW/SLOW-** para búsqueda de escenas hacia delante/ hacia atrás. **Presione PLAY** para liberar. Durante la búsqueda, cada vez que **presione FF/SLOW+** o **REW/SLOW-** se cambia la velocidad como sigue:
  [SLP] aprox. 21X ↔ aprox. 9X
  [LP] aprox. 9X ↔ aprox. 7X
  [SP] aprox. 7X ↔ aprox. 3X
  Si la imágen se interrumpe con la velocidad de 21x, 9x o 7x, cambie la velocidad a 9x, 7x o 3x.
- **Presione PAUSE/STILL** para imagen Fija (Congelada).
  Presione PLAY para liberar.
- **Presione PAUSE/STILL** en el modo de imagen fija para imágenes cuadro a cuadro.
  Presione PLAY para liberar.
- **Presione FF/SLOW+** o **REW/SLOW-** en el modo de imagen fija para cambiar la velocidad de las imágenes a cámara lenta.

3 **Presione STOP** para detener el cassette.
- **Presione REW/SLOW-** o **FF/SLOW+** en el modo de parada para rebobinado/avance rápido del cassette.
- **Presione EJECT** en el control remoto, o **STOP/EJECT** en el DECK para expulsar el cassette.

Operaciones básicas para la grabación

1 **Inserte el cassette con lengüeta de protección de grabación (página 6).**

2 **Presione CH ▲/▼,** o **las teclas de números** para seleccionar el canal.

3 **Presione SPEED** para seleccionar la velocidad de grabación (página 6)
- SP = Reproducción estándar,
- LP = Larga duración,
- SLP = Superlarga duración.

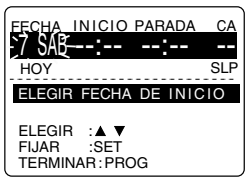
4 **Presione REC** para comenzar a grabar.
- Para eliminar escenas indeseadas, presione PAUSE/STILL para hacer una pausa, y al presionar nuevamente continua la grabación.
- No podrá ver otro canal durante la grabación.

5 **Presione STOP** para detener la grabación.

Programación fácil para la grabación con temporizador

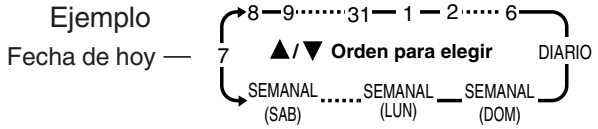
1 **Presione PROG**
para visualizar la pantalla de Programacion.

2



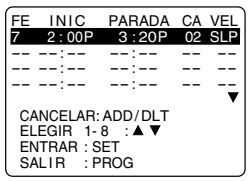
1) Para ajustar la FECHA de grabación, presione ▲▼ para seleccionar:
1-31 = una vez, o
DIARIO = a la misma hora de lunes a viernes, o
SEMANA = a la misma hora cada semana y **presione SET** para ajustar.

Orden para elegir



2) Para ajustar los ítems que quedan, presione ▲▼ para seleccionar y **presione SET** para ajustar los tiempos de INICIO/ PARADA, CANAL, o entrada de LINEA (pág. 35), y velocidad del cassette (SP, LP, SLP).
Presione PROG para finalizar PROGRAM.

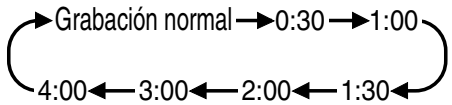
3



Presione ▲▼
para seleccionar un número que no está usando para ingresar mas programas y
presione SET
para ajustar.
Luego repita el paso 2.
O
Presione nuevamente PROG para salir.

■ Grabación de un toque

Presione REC repetidamente para ajustar la hora de grabación (30 min - 4 horas).
- La videograbadora termina la grabación a una hora programada.



Operaciones básicas del DVD

1 **Presione *POWER*** en el control remoto o el aparato.

2 **Presione *DVD*** para seleccionar el modo DVD.

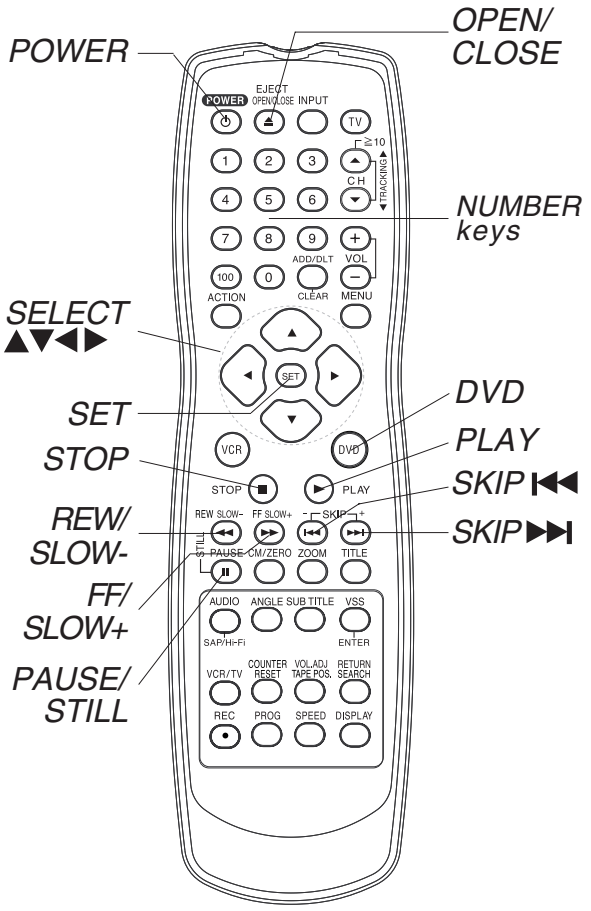
3 1) **Presione *OPEN/CLOSE***.
2) Ponga un disco en la bandeja de disco.
• Sujete el disco sin tocar ninguna de sus superficies, póngalo con el lado donde esté impreso el título hacia arriba, alinéelo con las guías y póngalo en su posición apropiada.
Disco de 3"(8 cm) / Disco de 5" (12 cm)

4 **Presione *PLAY*** para iniciar la reproducción. 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.

5 **Presione ▲▼◀ ▶** o las teclas numéricas para seleccionar el artículo deseado.
Presione *SET* o ***PLAY*** para la reproducción.
Si usa las teclas numéricas, la reproducción comienza automáticamente.

6 **Presione *STOP*** para parar la reproducción.

7 **Presione *OPEN/CLOSE*** para expulsar el disco.



■**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 *PAUSE/STILL* durante la reproducción.
(Para liberar, **presione *PLAY***)

■**Para ver imágenes cuadro a cuadro (DVD/Vídeo CD)**
Presione *PAUSE/STILL* 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***)

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

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 reproducción, modo reproducción, Karaoke vocal encendido / apagado, etc.).

1 **Presione *DISPLAY*** en el modo reproducción o parada para visualizar las visualizaciones en pantalla.

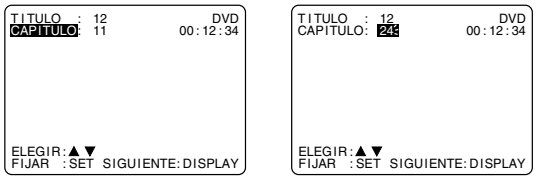
- Cada vez que se **presione *DISPLAY***, la visualización en pantalla cambia como se muestra a continuación.

Información seleccionada del disco
⬇
Información seleccionada del DECK
⬇
Pantalla normal

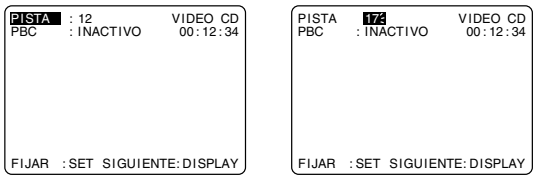
2 **Presione ▲▼** (o ◀ ▶) para seleccionar el ítem deseado.
Presione *SET* para ajustar.

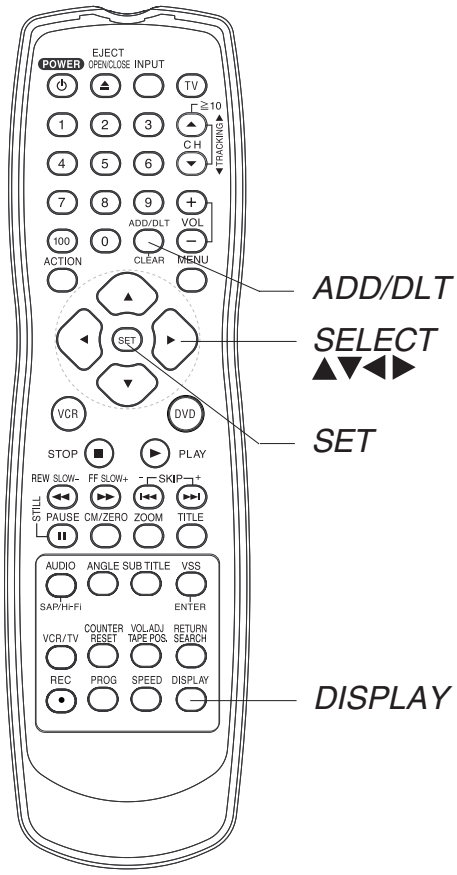
3 **Presione ▲▼** para seleccionar el ajuste deseado.
Presione *SET* para ajustar.
Para volver a la pantalla normal,
Presione repetidamente ***CLEAR*** o ***DISPLAY***.

<Ejemplo (DVD)>



<Ejemplo (Vídeo CD)>



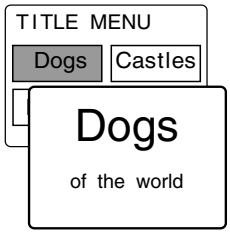


Utilización de un menú de títulos [DVD solamente]

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

1 **Presione *TITLE* durante la reproducción.**
Ahora se visualiza una lista de los títulos del disco.

2



Presione ▲▼ ◀▶ o **las teclas de números** para seleccionar el título deseado.
Presione *SET* para elegir.

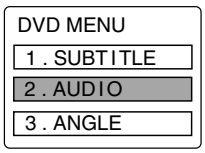
<ejemplo>

Utilización de un menú de DVD [DVD solamente]

Algunos discos DVD ofrecen un menú especial. Este menú incluye guías para contenidos únicos, audio, subtitulos, idiomas, etc. Aunque los contenidos y las operaciones se cambian, los siguientes son unos pasos básicos para el uso del menú.

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

2



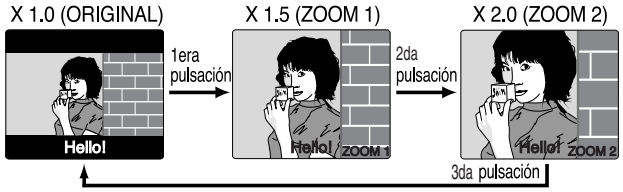
Presione ▲▼ ◀▶ o **las teclas de números** para seleccionar el ítem deseado.
Presione *SET* para elegir.

<ejemplo>

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

- Use los botones ▲, ▼, ◀ y ▶ para desplazar la posición hacia arriba, hacia abajo, hacia la izquierda o hacia la derecha.



Funcionamiento de la ejecución de MP3/JPEG

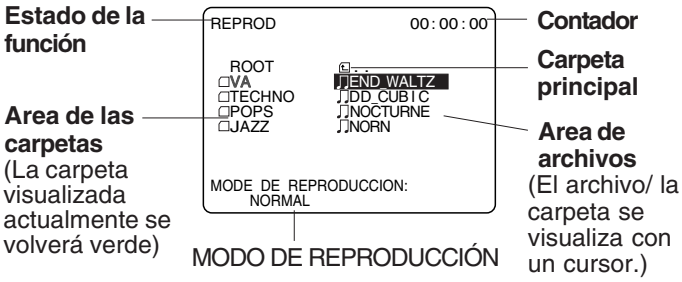
Puede utilizar esta unidad para reproducir audio de formato MP3/JPEG, grabado para uso personal con una computadora, etc., en un CD-ROM o CD-RW.
La ejecución no podrá realizarse en algunos casos, debido a las condiciones de la grabación.

1 **Presione *POWER*** en el control remoto o DECK.

2 **Presione *OPEN/CLOSE*** y a continuacion coloque un disco MP3/JPEG en la bandeja de discos.
Presione *OPEN/CLOSE* para cerrarla.

3 Se visualizará el MENU MP3/JPEG y la ejecución se iniciará automáticamente. (Se visualizará el directorio del CD.)

<ejemplo>



:Archivo MP3	**:Archivo JPEG**
:Carpeta	**:Carpeta principal**

4 ■ **Ejecución MP3/JPEG** (Durante el modo STOP)
Presione ▲▼ para seleccionar un archivo MP3 (♫) o un archivo JPEG (📷), y **presione *SET*** o ***PLAY***.

- **MP3**
  Búsqueda hacia adelante/hacia atrás
  ➡**Presione *FF/SLOW+*** o ***REW/SLOW-*** durante la ejecución.
  Salto de pista hacia adelante/hacia atrás
  ➡**Presione *SKIP*** ▶▶I o I◀◀ ***SKIP*** durante la ejecución.
- **JPEG**
  Búsqueda siguiente/anterior
  ➡**Presione *SKIP*** ▶▶I o I◀◀ ***SKIP***.
  Inicie la muestra-diapositiva
  ➡**Presione *FF/SLOW+*** o ***REW/SLOW-***.
  Ampliar una imagen ➡ Presione *ZOOM*.
  Girar una imagen ➡ Presione *ANGLE*.

Presione *STOP* para detener la operacion descrita arriba.

■ **Seleccione MODO DE REPRODUCCION** (Durante el modo STOP)
Presione ◀▶ para mover el cursor a MODO DE REPRODUCCION, y **Presione ▲▼** para seleccionar el MODO DE REPRODUCCIÓN deseado.
[MODO DE REPRODUCCIÓN]
NORMAL: Todos los archivos se reproducen sólo una vez
REPETICION DE UNA MUSIC:
El archivo seleccionado se reproduce repetidamente.
REPETICION DE UN ARCHIVO:
Los archivos que se encuentran en la carpeta seleccionada se reproducen repetidamente.
REPETICION DEL DISCO:
Todos los archivos se reproducen repetidamente.

5 **Presione *ACTION*** para regresar al DVD MENU PRINCIPAL.

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

Fijaciones iniciales

1 **Presione DVD** para seleccionar el modo DVD.

2 **Presione ACTION en el modo de parada** para visualizar MENU.

3 **Presione ▲▼** para seleccionar el artículo deseado.
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 fijo" para prevenir inestabilidad o para permitir ver textos pequeños o patrones finos claramente en el modo de imagen fija.

TV PREFERENCIA
Para seleccionar cuando el material del vídeo es para pantalla ancha y se quiere reproducir en el estilo Pan&Scan, en el estilo Letterbox o en el estilo 16 : 9 en la pantalla.

4 **Presione ▲▼** para seleccionar el artículo deseado.
Presione *SET*.

5 **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"
(Fijación de fábrica : inglés)
Inglés / Español / Francés / Japonesa :
Original : Se seleccionará el idioma original de cada disco.
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 / Japonesa :
OTRO ** :** Se puede seleccionar el otro idioma.

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

Cambio del idioma de subtítulos [DVD solamente]

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

1 

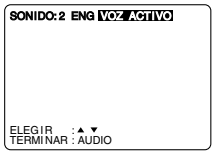
Presione *SUBTITLE* durante la reproducción.
Cuando no haya subtítulos grabados, se visualizará "-" en lugar del número de idioma.

2 

Presione ▲▼ para seleccionar el idioma deseado.
Presione ◄► para seleccionar "ACTIVO" o "INACTIVO."

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

1 **Presione *AUDIO*** durante la reproducción para visualizar la pantalla AUDIO.

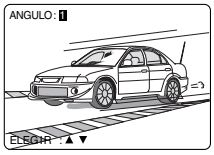
2 

Presione ▲▼ (o ◄►) para seleccionar el ajuste deseado.
Presione ▲ (o ▼) para ajustar. (DVD solamente)

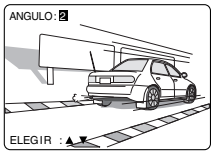
- DVD Karaoke (1 vocal) VOCAL ON↔VOCAL OFF
- DVD Karaoke (2 vocals) VOCAL V1→VOCAL V2→VOCAL V1+V2→VOCAL OFF
- Video CD LR→L→R

Visión desde otro ángulo [DVD solamente]

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

1 

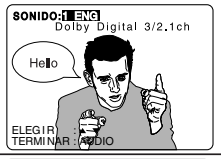
Presione *ANGLE* durante la reproducción para visualizar la selección del ángulo.

2 

Presione ▲▼ para seleccionar el ángulo deseado.

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.

1 

Presione *AUDIO* durante la reproducción para visualizar SONIDO en la pantalla.

2 

Presione ▲▼ para seleccionar idioma.

Guía para rápida consulta

Index

DECK & VCR

A ACTION button 8, 18
Accessories 4
ADD/DELETE button
(Add or Delete a Channel) 8, 19
Audio Broadcast types
(Stereo/SAP/Mono) 26
Audio Mode (Playback, Recording) 27
Auto Operation Functions 31
Auto Shut-Off 33

B Batteries 4

C Channel ("SET UP CHANNEL") 18
Channel Up/Down,
Tracking/V-Lock Button 6, 8
Clock ("SET CLOCK") 18
Commercial Skip 31
Connections ..... 12 ~ 15
Copy Your Tapes (Dubbing) 35
COUNTER RESET button 8, 32
Customer Services Directory 55

D DISPLAY button 8, 11
DST (Daylight Saving Time) 19

E EJECT button 8, 20
ENTER button
(For tuning TV Channel) 8, 28

F FAST FORWARD/SEARCH button .. 8, 20

H Head Cleaning 6

I Index Search 30
Indicator (Multi Function Display) 11
Initial Setup (Ready to Play) 16, 17
INPUT button 8, 35

L Limited Warranty 54, 55
Location of Controls
(Remote, DECK) ..... 8 ~ 10

M Multi-Brand Control 28, 29

O On-Screen Displays (VCR) 11
One Touch Recording 21

P PAUSE/STILL button (Still Picture) .. 8, 20
PLAY button (Playback a Tape) 8, 20
POWER button 8
PROG button (PROGRAM) 8, 24
Program Clear, Review, Replace 25
Program End Search 30

Q Quality Picture 6

R REC button (Record on a Tape) 8, 21
Record Tab 6
Remote Sensor 9
Remote Warning 34
Repeat Play 32
Reset All Memory Functions 9
REWIND/SEARCH button 8, 20

S SAP/Hi-Fi 27
SEARCH
(Index and Program End Search) 30
SLOW+/SLOW− button
(Slow Motion Picture) 8, 20
Spanish Quick Use Guide ..... 56 ~ 61
Specifications 7
SPEED button 8, 21
Still (Freeze) Picture 20
STOP button 8, 20

T Tape Position, Tape Status 34
Timer Recording 24
Trouble Shooting 52, 53
TV mode button 8, 28

V VCR Lock 33
VCR mode button 8, 28
VCR/TV button 8, 21
VCR/TV Selector Function 32
VOLUME +/− button (TV Volume) ... 8, 28

W Warning and Instruction Displays 51
Weak Signal Display 33

Z ZERO SEARCH button 8, 32

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DVD

A ACTION button 8, 47
ANGLE button
(Multiple Angle Viewing) 8, 37, 45
AUDIO button
(Audio Soundtrack Language) 8, 36
Audio Output
(For Selecting Audio Output) 48
Auto Power Off Function 23

C CLEAR button 8, 39, 46
Component Video Output 10, 13

D Disc Languages 47
DISPLAY button
("On-Screen Display") 8, 41
DTS 14
DVD Menu 38
DVD mode button 8, 28
DVD Lock Ratings 46

F Frame by Frame Picture 23
Forwards/Reverse Chapter/Track 23
Forwards/Reverse Scene Search 23

J JPEG ..... 43 ~ 45

K Karaoke
(Vocal Selection for Karaoke Discs) 37

L Language Code List 50

M MENU button
(To display DVD Menu) 8, 38
MP3 43
Multiple Angle Viewing 37

O OPEN/CLOSE button 8, 22
Optical Digital Audio Output 10, 15

P PLAY button (Play a Disc) 8, 22
Program Play (For Video CD/ CD) 39
PROGRESSIVE button 9
Progressive Scan 10

R Random Play (For Video CD/ CD) 40
Repeat Play 42
Resume Function 23
RETURN button 8, 22
Rotation 45

S SEARCH button
(Forward/Reverse Scene Search) .. 8, 23
SKIP ▶▶I or I◀◀ button
(Forward/Reverse Chapter/Track) .. 8, 23
Slide-show 44
SLOW+/SLOW– button
(Slow Motion Picture) 8, 23
STILL button
(Still Picture or Pause) 8, 23
Still Mode
(For selecting "FIELD" or "FRAME") 49
STOP button 8, 22
SUB TITLE button
(For selecting Subtitle Language) .. 8, 36
S-Video Out 10, 13

T TITLE button (Title Menu) 8, 38
TV Mode
(For selecting the screen display style) 49

V Video CD 23
VOLUME ADJUST 8, 40
V.S.S. (Virtual Surround Sound) 8, 23

Z ZOOM button (Picture Zoom) 8, 37, 45

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