Omnivision VHS

Panasonic®

DVD/VCR DECK

Operating Instructions

Model No. **PV-D4741**

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

DOLBY DIGITAL

dts® DIGITAL OUT

DVD VIDEO™

COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

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.)

LSQT0452A

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.

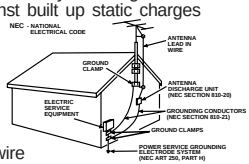
4 DO NOT BLOCK VENTILATION HOLES
Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes or discs.
For protection, follow these rules:
a. Never cover 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 manufacture's service literature to ensure that the unit is in safe operating condition.

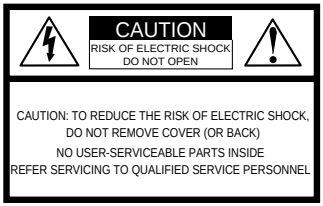
Safety Precautions/Mesures de sécurité

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 INSTRUCTED.

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

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

DO NOT OPEN COVERS AND DO NOT REPAIR YOUR SELF, 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 ratio/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.

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

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.

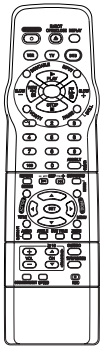
Congratulations

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-D4741**
- Serial No. _____

Accessories

☐ Remote Control
LSSQ0304

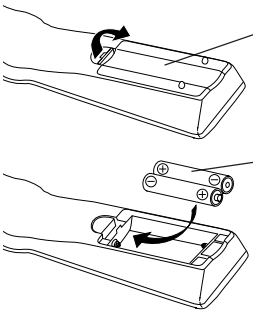


☐ Batteries 2 "AA"

☐ RF Coaxial Cable
VJAS0196

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:

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

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

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

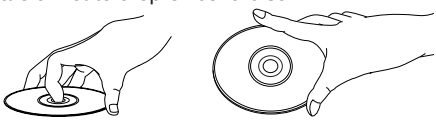
Discs which cannot be played
- DVD with Region No. other than "1" or "ALL"
- DVD of PAL system
- DVD-R/DVD-RAM
- DVD-ROM
- CD-ROM
- CDV
- CD-G
- CD-RW

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

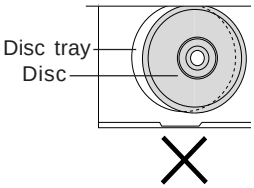
is a registered trademark.

Disc Handling

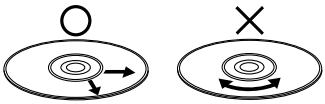
Handling precautions
- Only hold disc by edges as shown below. Fingerprints, dirt and scratches can cause skipping and distortion.
- Do not write on label side of disc.
- Never use record cleaning sprays, benzine, thinner, static electricity prevention liquids, or any other solvent.
- Be careful not to drop or bend disc.



- Do not place more than 1 disc on disc tray.
- Do not try to close disc tray when disc is not properly placed.
- Always store discs in their proper cases when not in use.



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



If disc is brought from a cold to a warm environment, moisture may form on the disc
Wipe away moisture with a soft, dry, lint-free cloth before using disc. (See above.)

Improper disc storage
Discs could be damaged if stored or left in areas:
- exposed to direct sunlight.
- that are humid or dusty.
- near heat (i.e. heater, radiator, etc.).

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 Display and Muliti Function Display) 11
Connections ..... 12 ~ 15
Initial Setup for Basic Connections 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 (Seach System) ..... 30 ~ 32
Special VCR Features 33, 34
Copying Your Tapes (Dubbing) 35

Disk Operation ..... 36 ~ 40
DVD Operation using On-Screen Displays ..... 41 ~ 43
DVD Lock Feature 44
Setting for DVD Operation ..... 45 ~ 47
Language Code List 48

DVD / VCR

Warning and Instruction Displays 49
Before Requesting Service 50, 51
Service Center List 52
Limited Warranty 53
Spanish (Español) Quick Use Guide ..... 54 ~ 59
Index ..... Back Cover

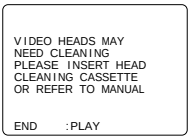
DECK & Cassette Information

Head Cleaning

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

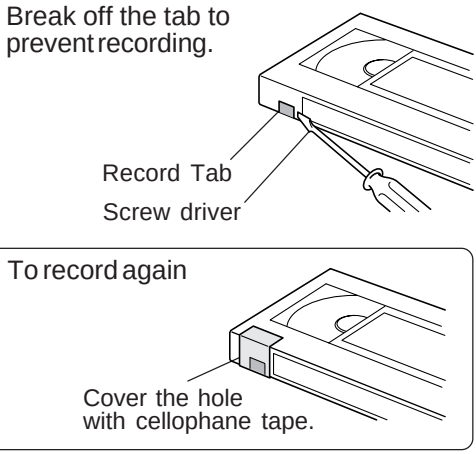
Video Head Clog Sensor

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 Factory Service Center or authorized Service Center (see p. 52).

Prevent Accidental Tape Erasure



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 nonabrasive, antistatic cleaner and polisher.

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

Features for a Quality Picture (VCR)

Digital Auto Picture

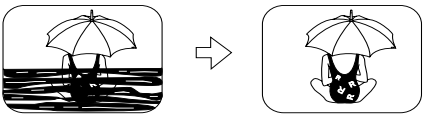
Automatically controls the video output signal for less noise depending on the tape condition.

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) ▲/▼ buttons 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) ▲/▼ buttons 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 (Normall), 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-VHS 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:	6.9 kg (15.2 lbs).
Dimensions:	430 (W) x 118 (H) x 364 (D) mm 16-15/16” (W) x 4-5/8” (H) x 14-5/16” (D)
Discs Played	
(1) DVD-VIDEO Disc (one layer per side)	5” (12 cm) single-sided single-layer 5” (12 cm) single-sided double-layer 5” (12 cm) double-sided double-layer 3” (8 cm) single-sided single-layer 3” (8 cm) single-sided double-layer 3” (8 cm) double-sided double-layer
(2) Compact Disc (CD-DA, VIDEO CD)	5” (12 cm) disc 3” (8 cm) disc
Digital Audio Output:	Digital Optical Connector
Pickup:	Wave length: 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).

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

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

POWER

VCR mode
p. 28

DSS/CABLE mode
p. 28

PLAY
pp. 20, *22*

REWIND/*SEARCH/ SLOW-*
pp. 20, *22*

VCR/TV
p. 21

NUMBER keys

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

ACTION
pp. 18, *44*

SKIP ▶▶|
SKIP |◀◀
p. 22

TITLE
p. 38

DISPLAY
p. 19, *41*

TV mode
p. 28

DVD mode
p. 28

INPUT
p. 35

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

PAUSE/*STILL*
pp. 20, *22*

STOP
pp. 20, *22*

ADD/DELETE/ *CLEAR*
pp. 19, *39, 44*

SURROUND/ ENTER
pp. 27, 28

PROGRAM
p. 24

SELECT
▲▼◀▶

MENU
p. 38

SET

SUB TITLE
p. 36

ZOOM
p. 37

COMMERCIAL SKIP/ ZERO
pp. 31, 32

CHANNEL ▲/▼ TRACKING/V-LOCK
pp. 21, 6

TAPE POSITION
p. 34

RECORD
p. 21

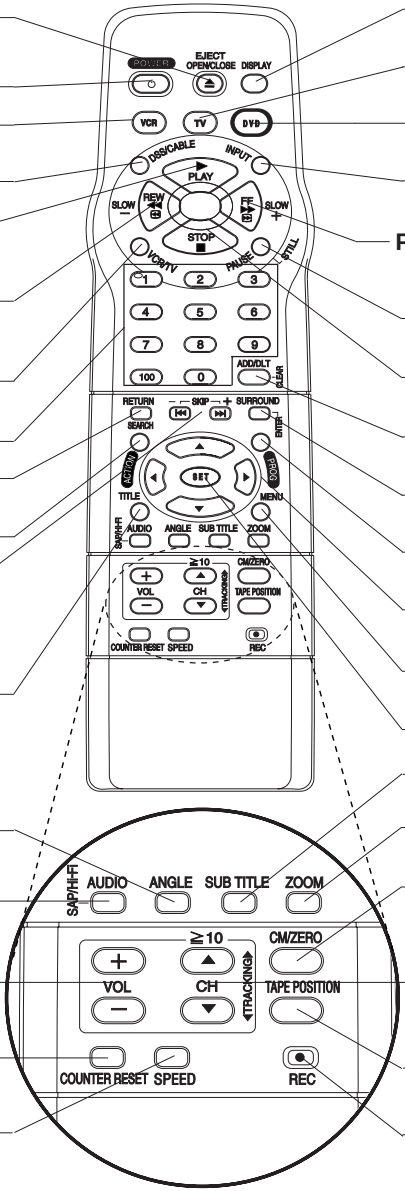
ANGLE
p. 37

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

VOLUME +/–
p. 28

COUNTER RESET
p. 32

SPEED
p. 21



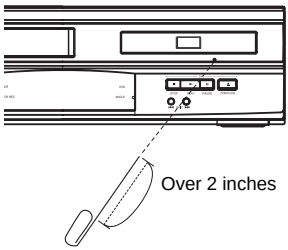
EJECT button: When this button is pressed in VCR mode, the tape is ejected.
This button is inoperative if pressed during recording.
If pressed in DVD mode, the disc tray opens or closes.

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

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.



STOP/EJECT
p. 20

FAST FORWARD/SEARCH
p. 20

PLAY
p. 20

REWIND/SEARCH
p. 20

POWER

Cassette Compartment

Disc Tray

Audio/Video Input Connector 2 (LINE 2) p. 21

Multi Function Display
p. 11

Remote Sensor

OPEN/CLOSE
p. 22

PAUSE
p. 22

CHANNEL ▲/▼
TRACKING/V-LOCK
pp. 21, 6

PLAY
p. 22

SKIP ▶▶|
SKIP |◀◀
p. 22

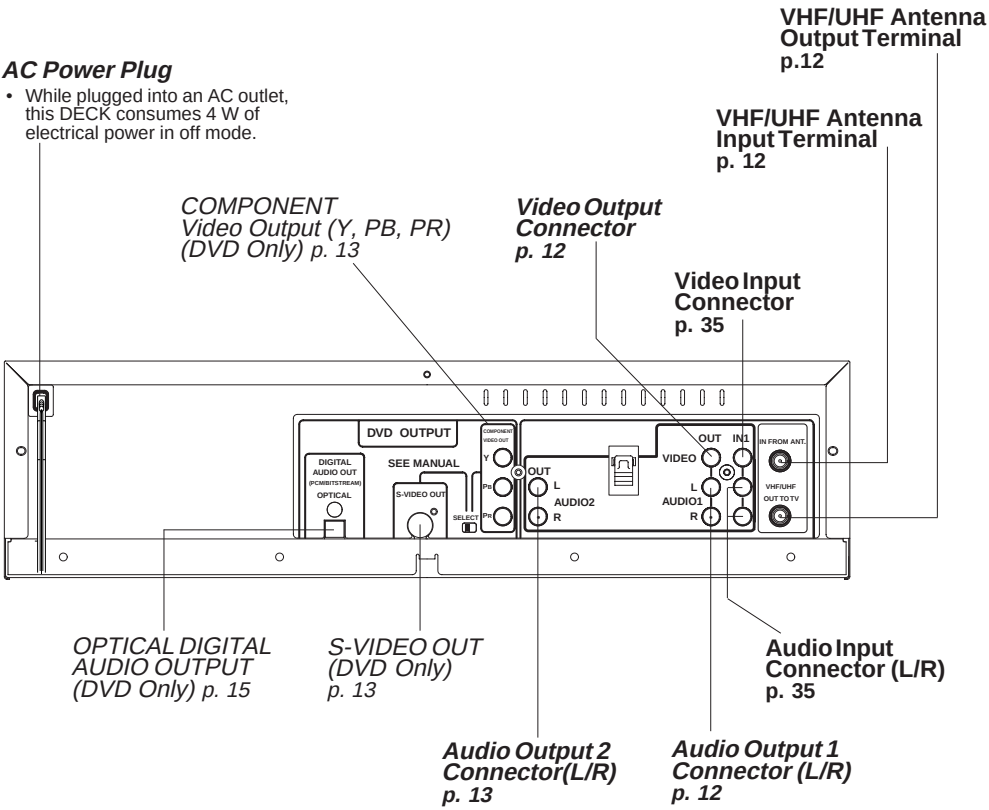
VCR/TV
p. 21

REC
p. 21

STOP
p. 22

Rear View of DECK

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



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 ←Swichable→YES	

Note
• ACTION and PROGRAM buttons 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 ACTION or PROGRAM.

Displays (On Screen & Multi Function)

On Screen Displays (VCR)

08

When a function button is pressed, e.g. PLAY, or you change channels, a 4 second display appears first in large and then small characters.

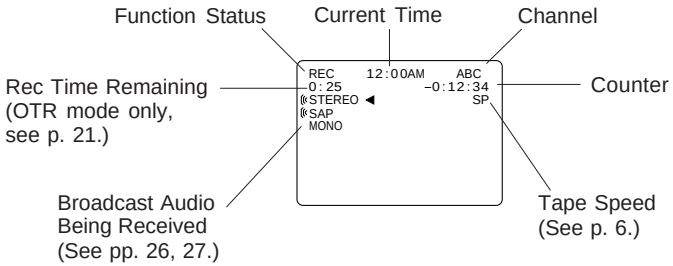
Blank Tape/ No Video Signal Indication

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 Display

To display or remove overlay at right,

--> **press DISPLAY**.



Multi Function Display

VCR Indicator
Lights up when the VCR/TV selector is set to VCR.

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

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.

Power Indicator
Lights up when power is on.

VCR mode Indicator
Lights up when DECK is VCR mode.

DVD mode Indicator
Lights up when DECK is DVD mode.

VCR REC Indicator
Lights up during recording.

Clock/ Status/ Channel/ Speed Display
Displays the current time. Briefly displays VCR 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.

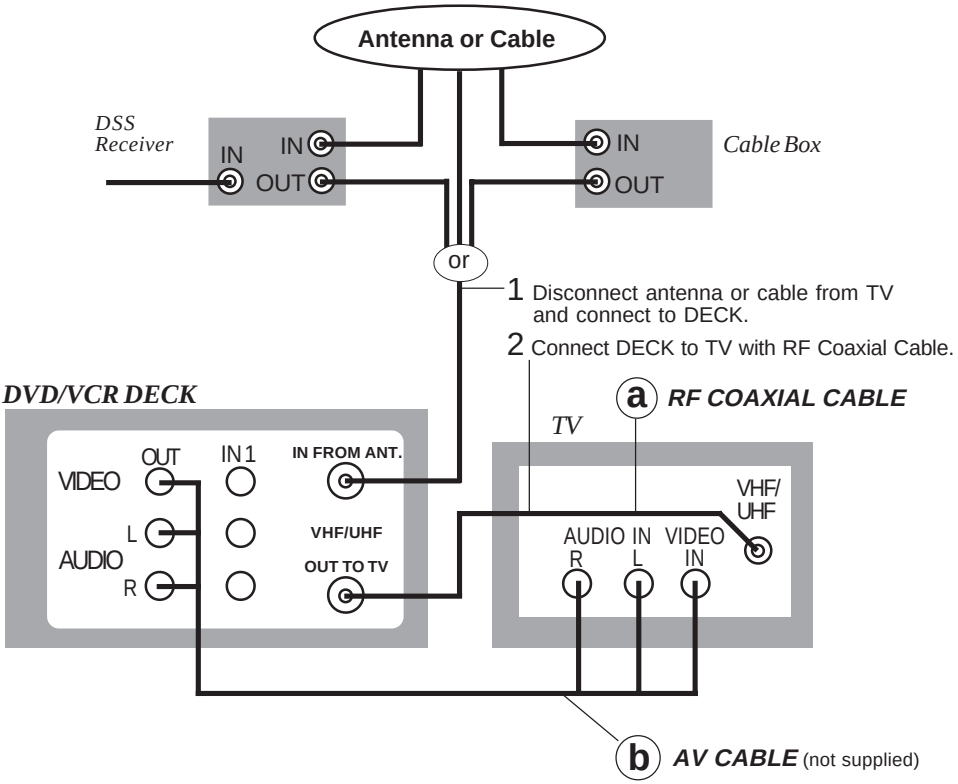
AM
Lights before noon. PM is not displayed.

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

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

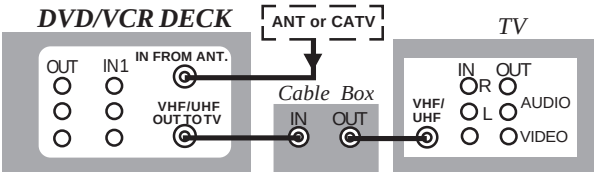
When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.

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.

Other Connections

■ DECK➡Cable Box➡TV



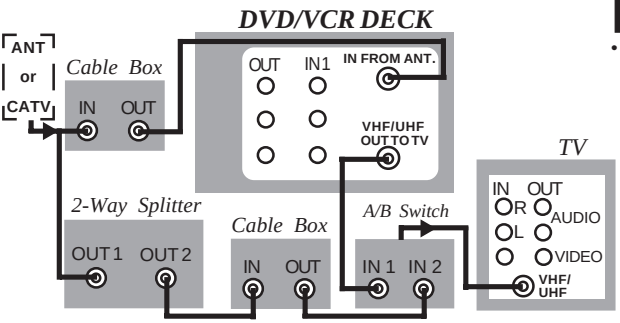
You Can

- view any (including scrambled) channel.
- use Remote Control to select channels without using Multi-brand control feature.

You Cannot

- record scrambled channels.

■ Connect With Two Cable Boxes



You Can

- 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.

You Cannot

- view 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

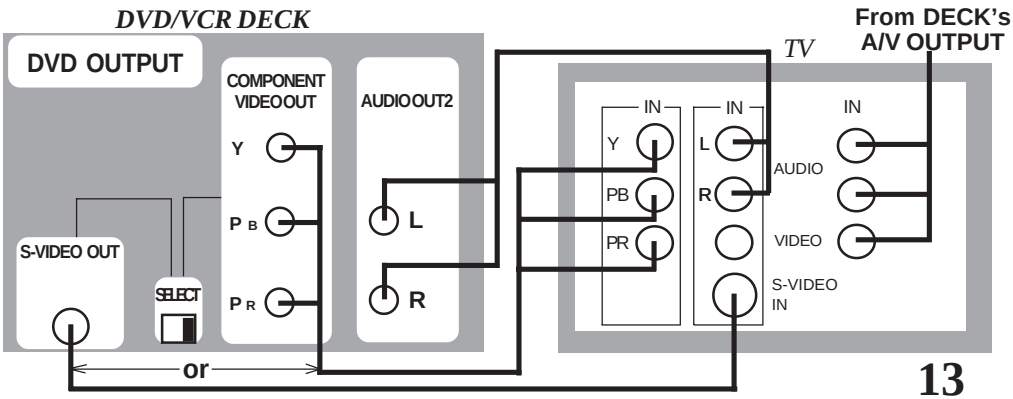
1 Connect AUDIO OUT2 (L, R) to the AUDIO IN (L, R) of the TV. (audio input for COMPONENT or S-VIDEO mode).

2 If your TV has COMPONENT VIDEO INPUT, set SELECT SW to COMPONENT VIDEO OUT. If your TV does not have COMPONENT VIDEO INPUT but has S-VIDEO INPUT, set SELECT SW to S-VIDEO OUT.

Note
- **The picture will not be displayed if the SELECT SW is not set to the correct video output.**

3 When 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.**
- ACTION and PROGRAM buttons 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 ACTION or PROGRAM.

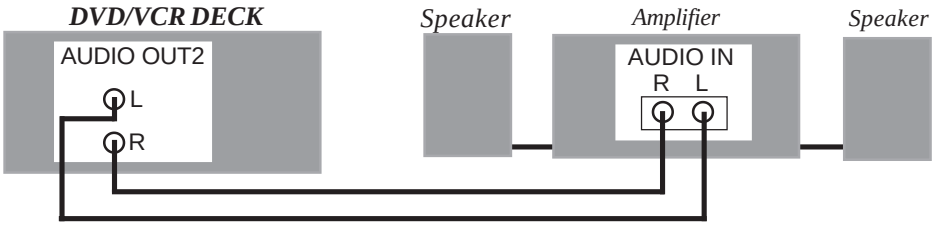


Audio Connections

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.

■ DECK ➡ Amplifier ➡ Speaker



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

*1 The type of audio output from the connector can be selected by the Settings for DVD Operation. (See p. 46.)

*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.

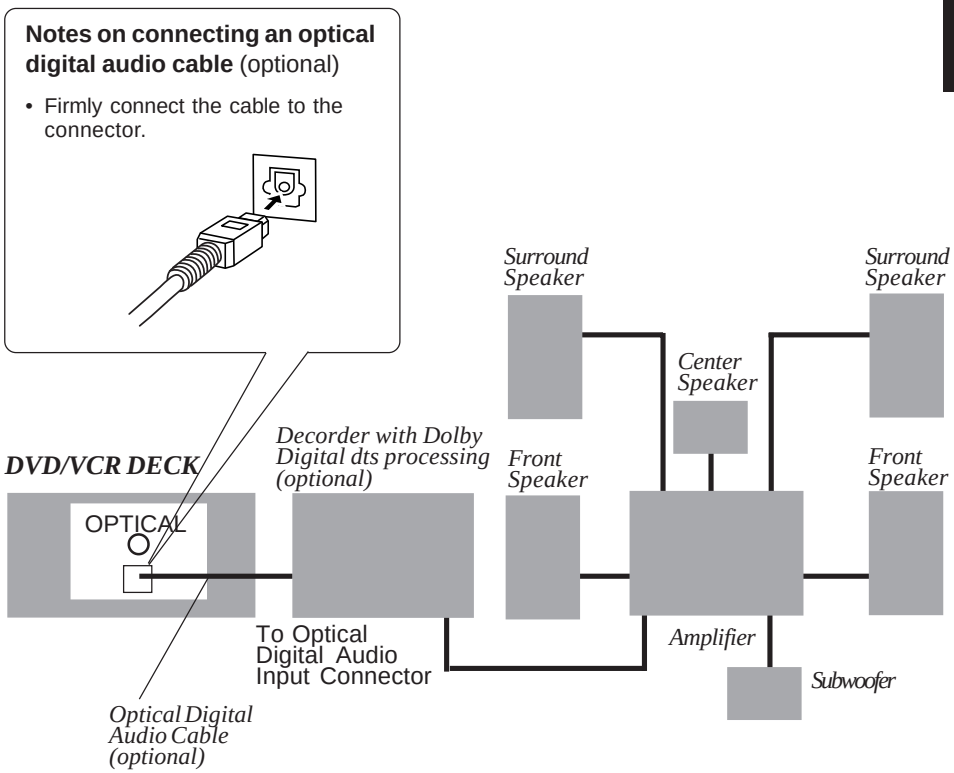
For your reference:

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

■ DECK➔Decoder with Dolby Digital➔Amplifier➔Speaker
or
dts (digital theater systems)

When DVDs recorded in Dolby Digital or dts are played, Dolby Digital bitstream or dts bitstream is output from the 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.]



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 "OFF" at "Dolby Digital" and "OFF" at "dts" of the Settings for DVD Operation "AUDIO OUTPUT" (see p. 46).**
  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 dts decoder is connected, please select "Bitstream" at "dts" of the Settings for DVD Operation "AUDIO OUTPUT".**
  If "OFF" is selected, there will be no sound. (See p. 46).
- **Video CDs and CDs can be played as normal.**

Note:

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

Initial Setup for Basic Connections

Before doing Initial Setup

1 **Turn TV on**.

2 See connections ⓐ RF Coxial Cable Connection and ⓑ AV Cable Connection on pp. 12, 13.

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

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

3 **[DECK-TV]**
- Go to “How to do Initial Setup.” (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 DSS Receiver, it must be turned off.

How to do Initial Setup

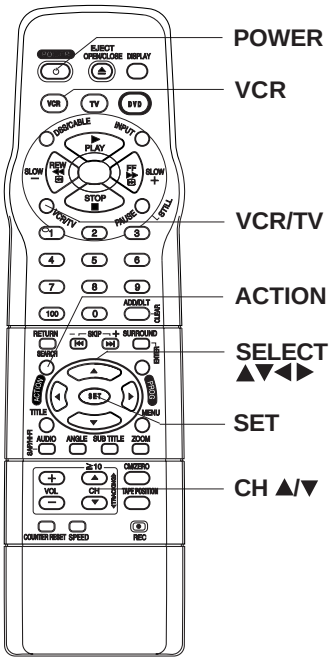
1 **Press VCR button*** on the remote for VCR mode.

2 **Press POWER** to turn DECK on.

3

```
SELECT LANGUAGE

PRESS CH ▲ : ENGLISH
OPRIMIR CH ▼ : ESPAÑOL
APP. VCR/TV : FRANÇAIS

TO CHANGE VCR'S OUTPUT
CH, PRESS ACTION KEY.
```

Press CH ▲ for English,
or
Press CH ▼ for Spanish,
or
Press VCR/TV for French,
to select language.



- When DECK is turned on for the first time, SELECT LANGUAGE screen appears**.**
- **If wrong language is set, or there is not Language Display, do “Reset All Memory Functions” steps on p. 17**.
- If screen does not appear, check connection between DECK and TV.
- When you want to change the output channel of DECK, please refer to VCR’s Output Channel on p. 19.

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.

4

```
CHANNEL/CLOCK AUTO SET

CONNECT ANTENNA CABLE
AND IF YOU USE A CABLE
BOX, TUNE IT TO YOUR
LOCAL PBS CH THEN. . .

PLEASE PRESS CH UP KEY
```

Press CH ▲
to start "CHANNEL/CLOCK AUTO SET."

5

Settings are performed automatically.

Case 1 Setup complete...

```
1/ 4/2001 THR 12:00PM
                DST:ON
SETTING : CH 02

AUTO CLOCK SET

COMPLETED

END : CH UP KEY
```

Press CH ▲
to exit.

Case 2 Setup Incomplete...

```
AUTO CLOCK SET IS
INCOMPLETE

PLEASE SET CLOCK BY
PRESSING ACTION KEY
```

Press ACTION
to display Manual Clock Set screen.

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

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

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

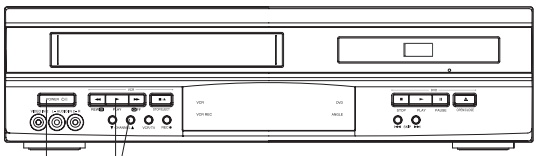
```
SET CLOCK
1/ 4/2001 THU 12:00PM
                DST:ON
SET COMPLETED

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

Press ACTION twice
to start Clock and exit.

Reset All Memory Functions

Use when moving DECK to new location, or if a mistake was made in the Initial Setup section.

- Make sure a tape is not inserted in DECK.



1 Turn DECK Power on.

2 Press and hold both **PLAY** and **CHANNEL ▲** on DECK for more than 5 seconds.
- The power shuts off.
- Please ignore "NO CASSETTE" warning.

3 Do "Initial Setup" on p. 16.

Reset Language, Channels, Clock

1

```
MENU
SET UP DVD
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:3

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

Press ACTION* to display MENU.

- ACTION and PROGRAM buttons 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 ACTION or PROGRAM.

2

■ Language

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

```
MENU
SET UP DVD
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:3

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

2) **Press SET** repeatedly.

```
MENU
PREPARAR DVD
PREPARAR VCR
FIJAR RELOJ
FIJAR CANAL
LANGUE/LANGUAGE:ESPAÑOL
CANAL DE SALIDA : 3

ELEGIR : ▲▼     FIJAR : SET
SALIR      : ACTION
```

For Spanish

```
MENU
REGLAGE DVD
REGLAGE MAGNETOSCOPE
REGLAGE HORLOGE
REGLAGE CANAL
LANGUAGE/IDIOMA:FRANçAIS
CA SORTIE : 3

SEL.      : ▲ ▼  REGLER:SET
QUITTER : ACTION
```

For French

```
MENU
SET UP DVD
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:3

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

For English

3) **Press ACTION** to exit.

■ Channels

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

```
MENU
SET UP DVD
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:3

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

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

```
SET UP CHANNEL
ANTENNA : CABLE
AUTO SET
WEAK SIGNAL DISPLAY : OFF

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

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

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

```
CHANNEL/CLOCK AUTO SET

CONNECT ANTENNA CABLE
AND IF YOU USE A CABLE
BOX, TUNE IT TO YOUR
LOCAL PBS CH     THEN. . .

PLEASE PRESS CH UP KEY
```

(This screen appears only when auto clock is set.)

4) **Press CH ▲**.

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

■ Clock

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

```
MENU
SET UP DVD
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:3

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

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

```
SET CLOCK

AUTO CLOCK SET
MANUAL
TIME ZONE ADJUST : 0

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

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

```
SET CLOCK
1/ 4/2001 THU 12:00PM
DST : ON
SELECT HOUR

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

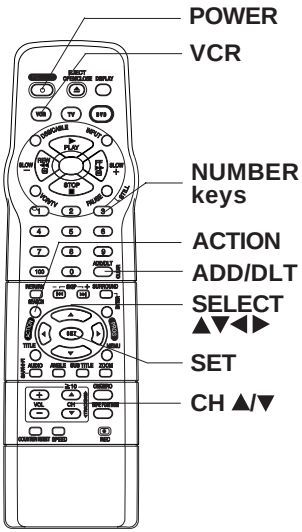
3) **Press ▲▼** and **◀** to select, then set the date, time, and DST (Daylight Saving Time).

4) **Press ACTION** twice 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.



Time Zone Adjust

(Only when Auto Clock is set.)

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

```
MENU
SET UP DVD
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:3

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

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

```
SET CLOCK

AUTO CLOCK SET
MANUAL
TIME ZONE ADJUST : 0

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

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

3) **Press ACTION**.

4) **Press POWER** off and wait a maximum 10 minutes until Auto Clock Set is performed by DECK.

- "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**.

```
MENU
SET UP DVD
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:3

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

2) **Press SET**.

```
IF YOU PRESS ACTION
KEY, VCR' S OUTPUT CH
SWITCHES TO CH 4.
```

3) **Press ACTION**.

```
PLEASE TUNE YOUR TV TO
CH 4.
```

↓ After 3 seconds

```
MENU
SET UP DVD
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:4

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

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

Add or Delete a Channel

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

```
CHANNEL 08 ADDED
```

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

```
CHANNEL 08 DELETED
```

DST (Daylight Saving Time)

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

Spring (First Sunday in April)
DST:ON --> Sets clock ahead one hour.

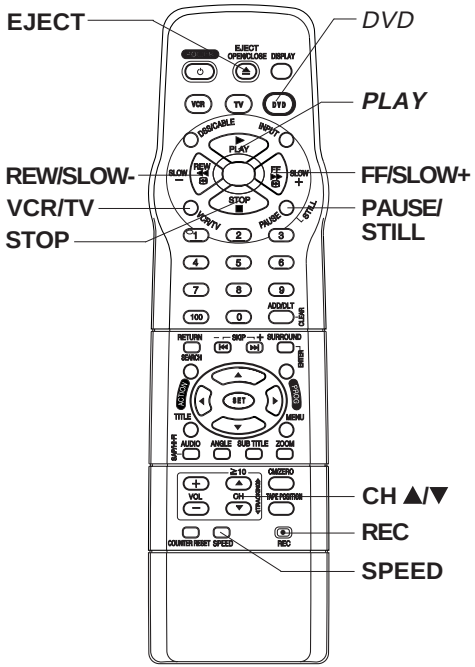
Autumn (Last Sunday in October)
DST:ON --> Turns clock back one hour.

- 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 CH3, 4, or VIDEO.
- ☐ Remote is in VCR mode. (Press VCR.)



Playback a Tape

1 **Insert a tape.**

- DECK power comes on.
  The VCR mode and "VCR" indicator light up on Multi Function Display.

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** again or **PLAY** to release.

■ **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.

Notes

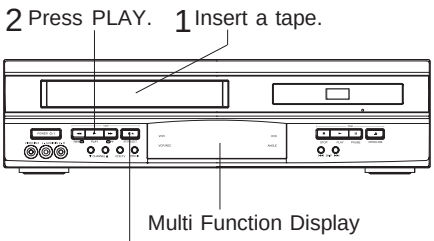
- These features work best in SP or SLP mode.
- The sound will be muted.
- To reduce picture noise, see "Manual Tracking Control" on p. 6.
- After DECK is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.

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.

Playback using DECK buttons



■ Press STOP/EJECT to stop and/ or eject a tape.

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.
  The VCR mode and "VCR" indicator light up on Multi Function Display.

2 **Press CH ▲▼, or NUMBER keys** to select the channel.
- For "LINE" input, see p. 35.
- If channels 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.

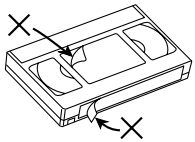
4 **Press REC** to start recording.
(The VCR REC indicator lights up on Multi Function Display),
- To edit out unwanted scenes, **press PAUSE/STILL** to pause, and again to resume recording.
- You cannot view another channel during recording.

5 **Press STOP** to stop recording.

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.

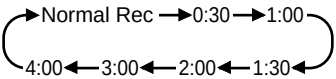
Note

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



Basic Operation

■ **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**
("VCR" goes out on Multi Function Display),
--> select channels at TV (recording continues).

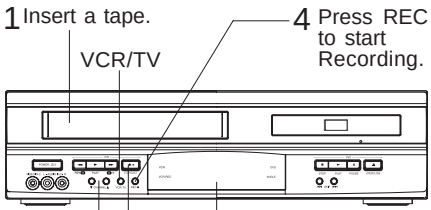
■ **Select channels at DECK,**
--> **press VCR/TV**
("VCR" lights up on Multi Function Display),
--> select channels at DECK.

■ **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.

Record using DECK buttons

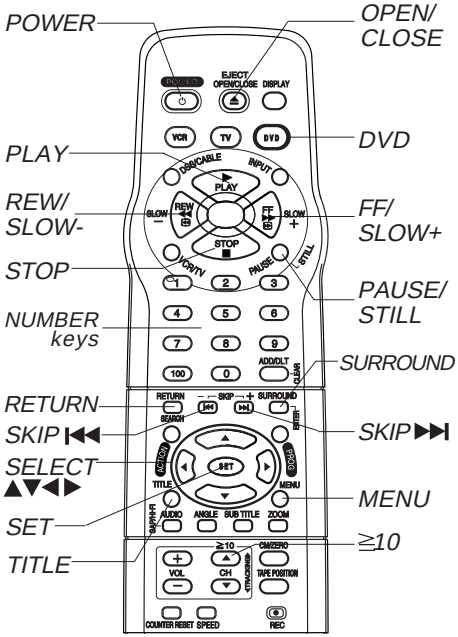


■ Press STOP/EJECT to stop.

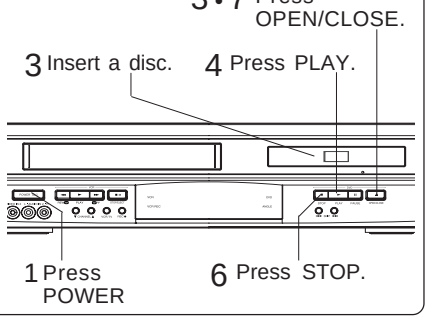
Basic DVD Operation

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



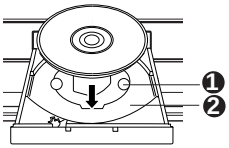
*1 Interactive DVD...
May include multiple camera angles, stories, etc.

*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.

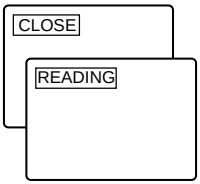
2 **Press *DVD*** to select DVD mode.
- If a disc is already inserted, go to step 4. (Depending on the disc, playback may start automatically.)

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



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

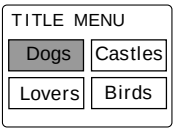
4 **Press *PLAY*** to start playing.
Disc tray closes automatically.



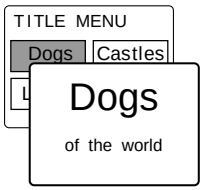
- You may also close tray by **pressing *OPEN/CLOSE***.
- Data reading time differs with each disc.

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

<Example>



5



<Example>

Press ▲▼◀▶ or ***NUMBER keys*** (see below) to select title, and **press *SET*** to play.

Using NUMBER keys starts playing automatically.

<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.

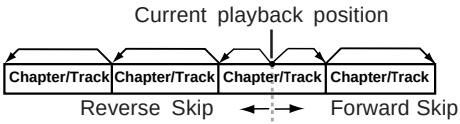
Press *PLAY* to release.

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

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



■ 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. 47)

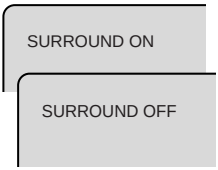
■ Slow Motion Picture (DVD/Video CD)

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

Surround Sound System



Press *SURROUND* to set Surround sound.

To cancel, press *SURROUND*.

Notes

- Surround sound effects is available in DVD mode only.

Resume Function

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

Press *PLAY* to resume play from this point.

Pressing *STOP* again or opening the tray cancels RESUME, however, RESUME is not canceled when power is turned off and on.

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

Auto-Power Off Function

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

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

Notes

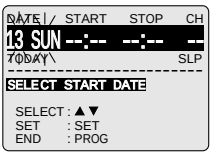
- Please read the disc jacket for operation information.
- If a single sided disc is placed in upside down, "PLEASE CHECK THE DISC, AND FOR STAINS OR SCRATCHES ON DISC" is displayed.
- Remove disc and press DECK POWER off when not in use.
- Disc continues to rotate with menu displayed even after play is done. Press STOP to clear menu display when finished with menu.

Ready Checklist

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

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

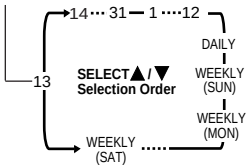
2



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.

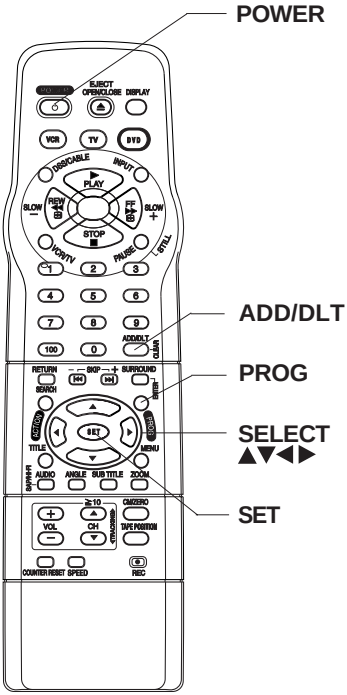
- See selection order left.

Example
Today

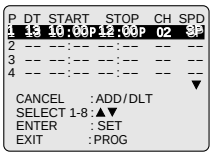


2) To set remaining items, press ▲▼
to select and
press SET
to set START/ STOP times, CH(channel) or LINE input (p. 35), and tape speed (SP, LP, SLP).

Press PROG
to end programming.



3

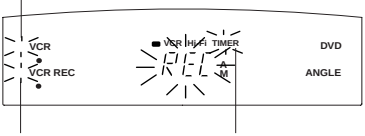


To Enter More Programs, press ▲▼
to select and
press SET
to set an unused program number, and then repeat step 2.

Or
Press PROG
to exit.

VCR mode Indicator

Multi Function Display



VCR REC Indicator TIMER Indicator

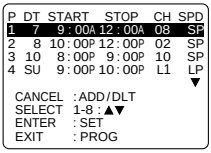
- The “Timer” Indicator lights up on DECK.
- You can do Timer Recording either power off or power on.
- **“TIMER REC WILL START SOON”** appears on-screen for 2 minutes before Timer Recording start. If DECK is in DVD mode, no message appears, but the VCR REC Indicator, the VCR mode indicator and “REC”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

Review, Replace or Clear Program Contents:

(Recording is not in progress)

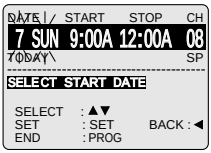
1 **Press PROG**
to display Program List.

2



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

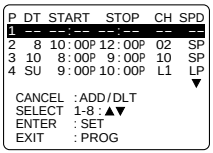
3 **To Replace program...**



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

or

To Clear program...



Press ADD/DLT.

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

To cancel a Timer Recording in progress...

Hold down STOP on 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 programed.

Notes

- **If you are using Cable Box, the VCR's channel for Timer Recording must be set to the Cable Box output 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 reenter 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.

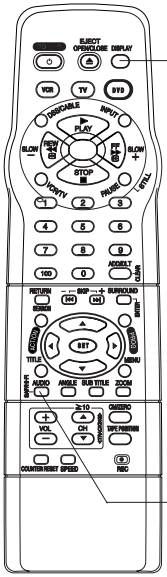
Receivable Broadcast Types

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.

```
STOP     12:00AM     ABC
                  0:00:00
((STEREO ◄            SP
((SAP
  MONO
```

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.

```
STOP     12:00AM     ABC
                  0:00:00
((STEREO ◄            SP
  SAP
  MONO
```

SAP broadcast

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

```
STOP     12:00AM     ABC
                  0:00:00
  STEREO              SP
((SAP    ◄
  MONO
```

MONO broadcast

Normal monaural sound broadcast.

```
STOP     12:00AM     ABC
                  0:00:00
  STEREO              SP
  SAP
  MONO     ◄
```

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.

Audio Mode for Recording

1 **Press AUDIO**
to display audio mode.

(Display disappears after 5 seconds.)

2 STEREO
SAP ◄
MONO

Press AUDIO repeatedly
to select desired mode.

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

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

Audio Mode for Playback

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

2 **Press AUDIO**
to display audio mode.

3 HIFI (L/R)◄
HIFI (L)
HIFI (R)
NORMAL

- Arrow indicates selection.

Press AUDIO 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, 15.)
- 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 and Cable Box/DSS functions.

1 **Find your TV and Cable Box/DSS Receiver Brand Code Number on the following page.**

2 ■ **Setup for TV control,**
-->**hold down TV button**,
-->**enter code with NUMBER keys**.

■ **Setup for Cable or DSS control,**
-->**hold down DSS/CABLE button**,
-->**enter code with NUMBER keys**.

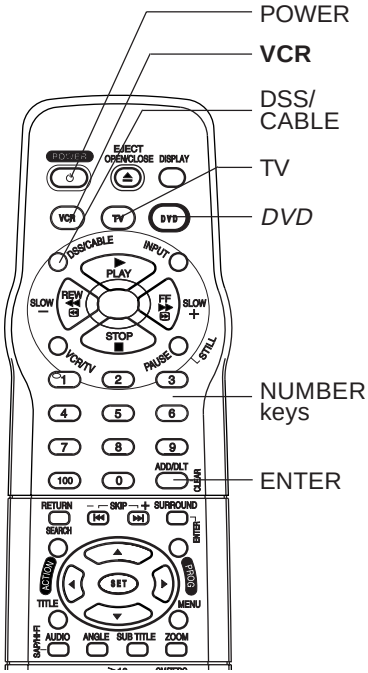
- If code number is 100 or greater,
  -->e.g., press 1 - 0 - 2 for 102.

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, Cable Box, or DSS 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, TV, or DSS/CABLE for the desired function.

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

Mode \ Unit	DVD/VCR	TV	CABLE/ DSS
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 +/–	————
CABLE/ DSS		VOL +/–	POWER, ENTER, NUMBER keys (except 100key), CH ▲/▼

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

Notes

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

TV Brand Code Numbers

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

Cable Box Brand Code Numbers

Archer 44, 06, 01, 120, 05, 63, 126
Cableview 29, 09, 01, 63, 120, 44, 42, 30 52, 04, 124, 126
Citizen 44, 52, 30, 63, 42, 04, 124, 126
Curtis 08, 09, 25, 61, 53, 87
Century 44, 51, 75, 59, 126
Cabletenna 29, 09, 01, 63, 120, 44, 126
Cable Cinema 29, 09, 01, 63, 120, 44, 126
Diamond 29, 09, 01, 63, 120, 44, 126
Eagle 62, 40, 22, 13, 58, 20, 26, 107
Eastern 28, 29, 130
Explorer 08, 09, 25, 61, 53, 87
Gemini 30, 04, 124
General Electric 01, 57, 120
General Instruments . 01, 84, 83, 34, 03, 02, 04, 55 65, 66, 67, 68, 120, 106, 121, 122, 115, 117, 118, 124
Gerrard 44, 51, 75, 59
GC Electronics 44, 42, 63, 29, 30, 52, 04 124, 126
Hamlin 41, 14, 15, 28, 102, 104, 103, 130
Hitachi 31
Jerrold 01, 84, 83, 34, 03, 02, 04, 55, 65, 66 67, 68, 120, 106, 121, 122, 115, 117, 118, 124
Jasco 30, 04, 124
Macom 31
Magnavox 26, 112
Matsushita 17, 16, 08, 87, 109
Movietime 32, 39, 42, 44, 126, 38, 40
Maestro 74, 35
NEC 40, 19, 38, 32
NSC 40, 19, 38, 32
Novavision 08, 09, 25, 61, 53, 87
Next Level 01, 84, 83, 34, 03, 02, 04, 55, 65 66, 67, 68, 120, 106, 121, 122
Oak 46, 11, 129, 101
Oak Sigma 46, 11, 129, 101
Panasonic 17, 16, 08, 87, 109
Philips 23, 24, 20, 13, 07, 50, 128, 129
Pioneer 06, 05, 12
Pulsar 04, 42, 63, 44, 30, 52, 124, 126
Quest 06, 05, 12
Radio Shack 44, 51, 75, 59, 126
RCA 17, 16, 08, 87, 109
Realistic 44, 51, 75, 59, 126
Recoton 44, 51, 75, 59, 126
Regal 41, 14, 15, 28, 102, 104, 103, 130
Regency 28, 29, 130
Rembrandt 44, 42, 63, 29, 01, 32, 39, 120, 126
Samsung 42, 06, 32, 05, 40
Scientific Atlanta 08, 09, 25, 61, 53, 87
Sheritech 27
Signal 26, 112
SL Marx 42, 06, 32, 40, 43, 44, 52, 63, 126
Sprucer 17, 16, 08, 87, 109
Standard Components 32, 39, 42, 44, 126
Stargate 04, 42, 32, 40, 63, 44, 30, 52, 06 124, 126
Sylvania 19, 18
Teknika 74, 35
Telecaption 77, 127
Teleview 40, 19, 38, 32, 42, 06
Texscan 19, 18
Tocom 34, 33, 01, 42, 66, 120
Toshiba 36
Unika 44, 42, 63, 29, 01, 126, 120
Universal 52, 43, 44, 63, 42, 126
Viewstar 62, 40, 22, 13, 58, 20, 26, 107
Videoway 07, 23, 50, 129
Vidtek 64
Zenith 07, 23, 50, 129

DSS Brand Code Numbers

Toshiba 90
Hitachi/ Hughes 91, 99
Primestar 92
Drake 93
Magnavox 94, 95
Uniden 94, 95
Optimus 94, 95
Panasonic 96
ProScan 97
RCA 97
SONY 98, 105

Important Notes

- Due to changes in infra-red commands used by manufacturers, some brands have several codes. If your unit does not respond to the first code, please try the next one.
- Some TV, Cable Box and DSS Receiver 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-** to start search.

2

```
INDEX SEARCH

FORWARD SEARCH : FF
REVERSE SEARCH : REW
```

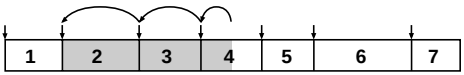
Play begins at search end.
To search forward or back 1 index, **press FF/SLOW+** or **REW/SLOW-** while screen left is displayed (10 sec.).

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

To Calculate Index Number

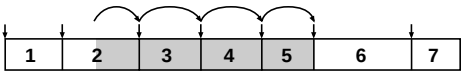
Example 1:

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+ to start PROGRAM END SEARCH.

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

Examples of **Program End Search**.

Fig. 1

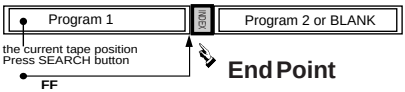


Fig. 2

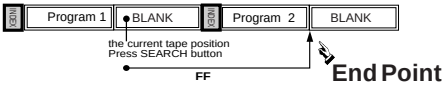
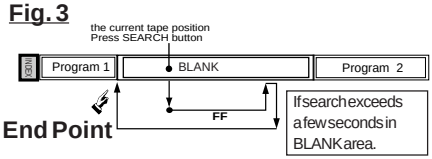


Fig. 3

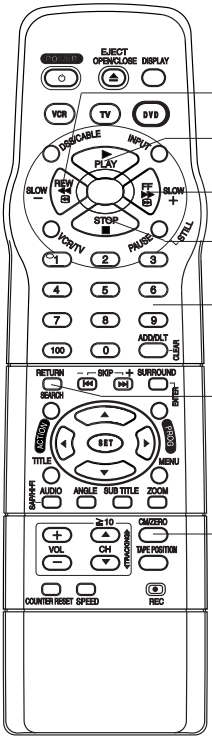


Upon locating end point,
-->search continues 7 sec. past end point,
-->tape rewinds to 10 sec. before end point,
-->tape plays to end point and stops.

Note

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

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



Auto Operation Functions

■ Auto Play

Insert a tape -->Power comes on,
-->Play starts if no record tab
(see p. 6).

■ Auto Rewind

Play
Manual Record } -->Tape end -->Rewind
Fast Forward

■ Play Auto Eject

(Repeat Play must be off)

Play -->Tape end -->Rewind
-->Tape ejects if no record tab

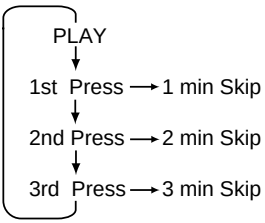
- If Timer Program is set, “Play Auto Eject” will operate with or without a record tab.

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.

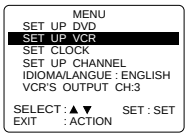
VCR Operation

Repeat Play

Set to playback a recording over and over.

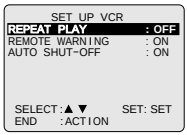
1 **Press ACTION*** to display MENU.

2



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

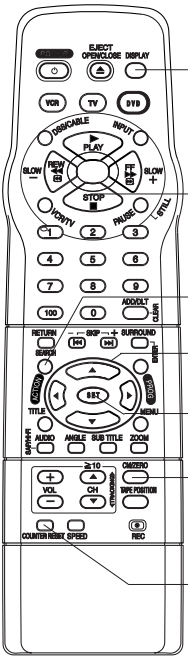
3



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.

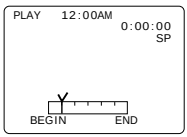


Zero Search

To quickly return to a specified tape location.

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

2

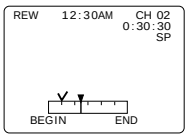


Press COUNTER RESET at desired position to reset to “0:00:00”.

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

4 **Press STOP.**

5



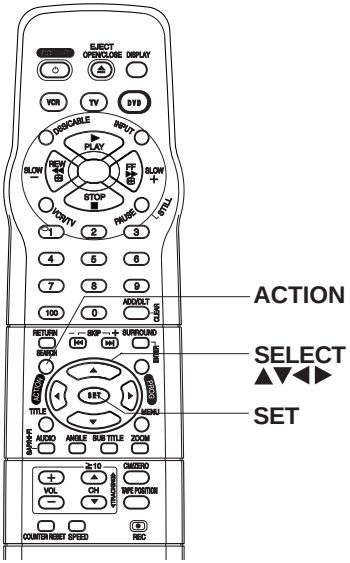
Press CM/ZERO in Stop mode to start Zero Search.

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

Note

- If a blank portion exists on the tape, and depending on the position of the V mark, the V mark display position may not be accurate.

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



VCR Lock Feature

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

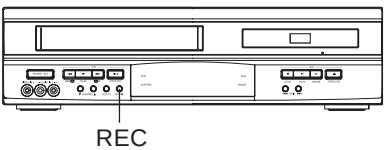
To turn on,
hold down REC on DECK in Stop mode with no tape inserted for 7 seconds.
(Please ignore "NO CASSETTE" warning.)

VCR LOCK ACTIVATED

To turn off, repeat above.

VCR LOCK OFF

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



Weak Signal Display Feature

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

1 **Press ACTION** to display MENU.

2

```
        MENU
 SET UP DVD
 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

When set to ON, DECK shuts off if blank tape is played or no signal is detected for 5 minutes.

1 **Press ACTION** to display MENU.

2

```
        MENU
 SET UP DVD
 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        : ON

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

Press ▲▼ to select "AUTO SHUT-OFF," and **press SET** to set "ON" or "OFF."

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

Remote Warning Feature

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

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

```
MENU
SET UP DVD
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**.

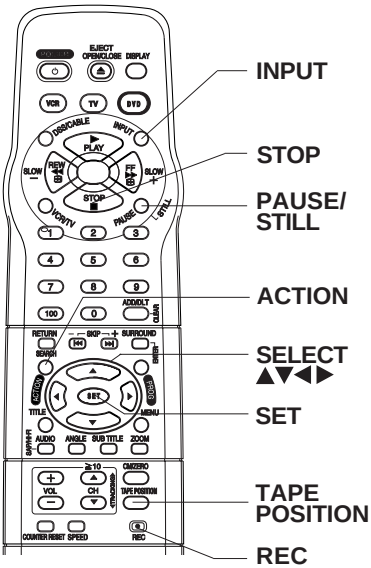
3

```
SET UP VCR

REPEAT PLAY          : OFF
REMOTE WARNING       : ON
AUTO SHUT-OFF        : ON

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

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.



Tape Position and Tape Status Feature

To find out the present tape position and amount of tape remaining.

Tape position cannot be detected for VHS-C Cassettes, tapes under 30 minutes, and some other tapes.

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

```
DETECTING TAPE POSITION
```

```
SP
R  70 MIN.
BEGIN        END
```

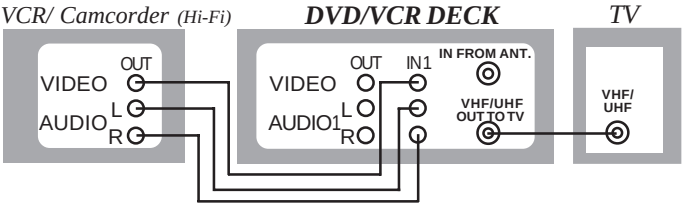
- "DETECTING TAPE POSITION" is displayed only when a cassette is first inserted, and it takes several seconds for correct tape position to appear.
- The present tape position indication and amount of tape remaining (according to tape speed) is displayed.
- Tape remaining time display may not be precise.

Note

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

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 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 both 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.

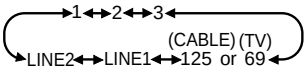
■ To Monitor Dubbing on TV

1. Turn TV on and tune to the Recording VCR channel (CH 3 or CH 4).
2. Set the VCR/TV Selector on DECK to "VCR."

■ 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.

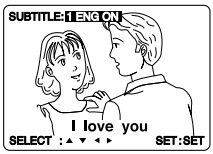
Note
- Dubbing tapes protected with Copy Guard will have poor quality results.

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.**

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. 45.)

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 ▶ (or ◀) to set.
Press ▲▼ to select "ON" or "OFF."

Number of subtitle language being played back.

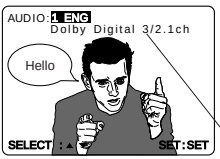
Notes

- If after several presses of the button the language does not change, language selection is not offered on the disc.
- When power is turned on again or disc is removed, subtitles revert to initial setting language. If the initial language is not recorded on the disc, the disc's priority language will appear.

Audio Soundtrack Language (DVD only)

You can change the audio soundtrack language, selected at the Settings for DVD Operation, to a different language if available. (See p. 45.)
(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.

2

Press ▲▼ to select desired language.

Number of the audio soundtrack language being played back.

Ready Checklist

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

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

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

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

[Audio attribute 1 type, sampling frequency, bit No. of the disc (see p. 46.)**]**

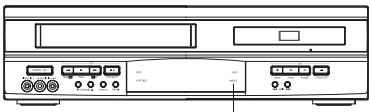
LPCM	96KHz or 48KHz	16bit	Linear PCM disc
		20bit	
		24bit	
Dolby Digital	1ch - 5.1ch		Dolby Digital disc
DTS	1ch - 5.1ch		DTS disc

Notes

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

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

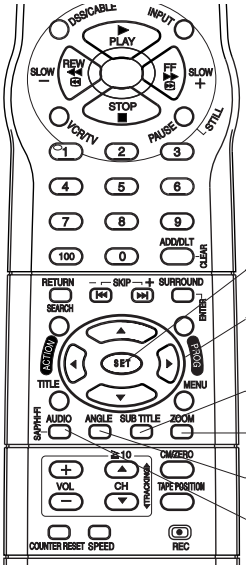
When ⃠ appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by DECK or the disc.



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.



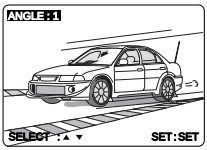
Notes

- 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" is displayed on-screen.
- Zooming, on some discs, may result in poor picture quality, or not operate.

Multiple Angle Viewing (DVD only)

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

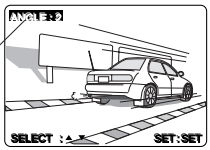
1



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

- Display disappears after 5 seconds.

2



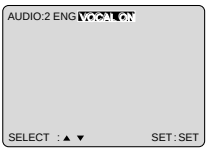
Press ▲▼ to select the desired angle.

Number of angle being played back.

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)

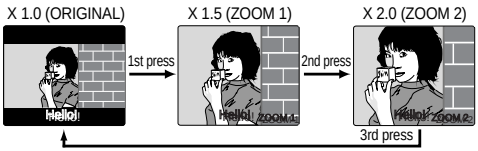
- DVD Karaoke (1 vocal) VOCAL ON ↔ VOCAL OFF
- DVD Karaoke (2 vocals) VOCAL V1 + V2 → VOCAL V1 → VOCAL V2 → VOCAL OFF
- Video CD LR → L → R

Picture Zoom (DVD only)

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



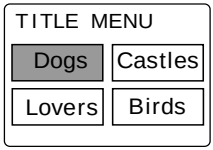
■ Use the ▲, ▼, ◀ and ▶ buttons to move the position up, down, left and right.

DVD Operation

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

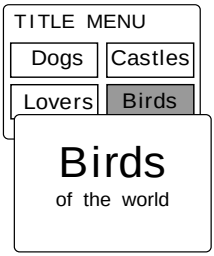


<Example>

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

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

2



<Example>

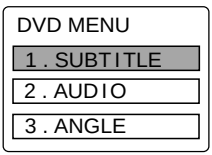
Press ▲▼◀▶ or *NUMBERE keys*
to select a title, and
press *SET* or ***PLAY***
to start playing.

- "Press *SET* or *PLAY*" 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

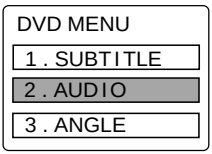


<Example>

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

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

2

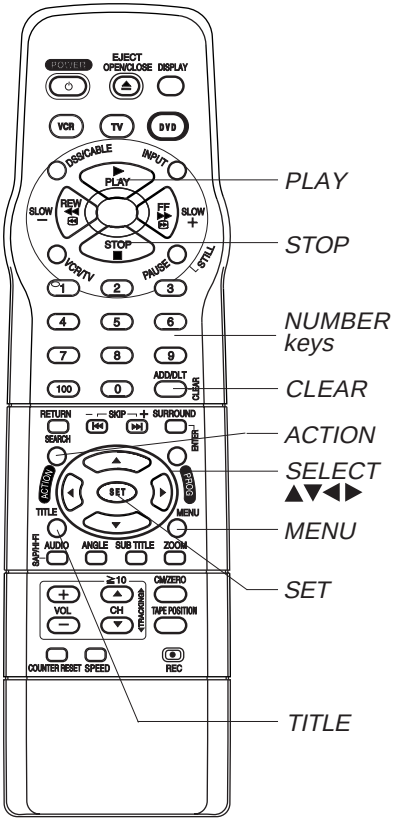


<Example>

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

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

Repeat step 2 if more than one menu.



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

Program Play (Video CD/CD)

You can program specific tracks and order of play.

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

2

```
MENU
 SET UP DVD
 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 DVD," and **press *SET*** to display DVD screen.

3

```
DVD MAIN MENU

DISC LANGUAGES
AUDIO OUTPUT
STILL MODE      : FIELD
TV MODE         : Letterbox 4:3
PARENTALLOCK :LEVEL 8
PLAY MODE

SELECT   : ▲ ▼
SET      : SET
END      : ACTION
```

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

4

```
PLAY MODE

PROGRAM PLAY
RANDOM PLAY

SELECT   : ▲ ▼
SET      : SET
END      : ACTION
```

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

5

```
PROGRAM PLAY
   DISC              PROGRAM
1  6  11  16          5   8
2  7  12  17         15   6
3  8  13  18          1  13
4  9  14  19          3   2
5  10 15  20          2

CLEAR LAST
CLEAR ALL            START
SELECT   : ▲ ▼ ◀ ▶
SET      : SET
END      : ACTION
```

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

- Repeat step 5 to select another track.
- The selected track is added on the right side.

6

```
PROGRAM PLAY
   DISC              PROGRAM
1  6  11  16          5   8
2  7  12  17         15   6
3  8  13  18          1  13
4  9  14  19          3   2
5  10 15  20          2

CLEAR LAST
CLEAR ALL            START
SELECT   : ▲ ▼ ◀ ▶
SET      : SET
END      : ACTION
```

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***.

Note

- 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)

1 Do operation steps **1** through **6** at left on this page.

2 **Press *DISPLAY*** to display Disc Information screen.

(Disc Information Screen)

```
TRACK : 1                VIDEO CD
PBC     : OFF            1:35:12

SET     : SET      NEXT : DISPLAY
```

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

4 **Press *SET*** to enter Select mode. "REPEAT OFF" will flash.

(DECK Information Screen)

```
PLAY
REPEAT OFF
PROGRAM PLAY

SET     : SET      END : DISPLAY
```

5 **Press ▲▼** to select "DISC REPEAT."

(DECK Information Screen)

```
PLAY
DISC REPEAT
PROGRAM PLAY

SELECT : ▲ ▼
SET    : SET      END : DISPLAY
```

6 **Press *SET*** to set mode. ("DISC REPEAT" will stop flashing.)
To cancel, select "REPEAT OFF" in step 5, then **press *SET***.

DVD Operation

Random Play (Video CD/CD)

Tracks are played in a random order.

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

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

2

MENU
SET UP DVD
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 DVD," and **press *SET*** to display DVD screen.

3

DVD MAIN MENU
DISC LANGUAGES
AUDIO OUTPUT
STILL MODE : FIELD
TV MODE : Letterbox 4:3
PARENTAL LOCK : LEVEL 8
PLAY MODE

SELECT : ▲ ▼
SET : SET
END : ACTION

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

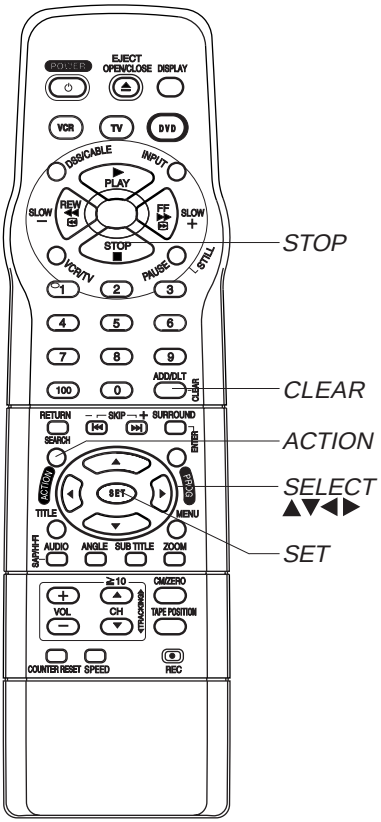
4

PLAY MODE
PROGRAM PLAY
RANDOM PLAY

SELECT : ▲ ▼
SET : SET
END : ACTION

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

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



DVD Operation using On-Screen Displays

When *DISPLAY* is pressed, On-Screen Displays show disc information (title/chapter/track number, elapsed playing time) and 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 on-screen display as follows. (refer to p. 42 or 43.)

→ Selected disc information
↓
Selected DECK information
↓
Normal Screen

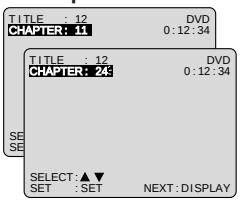
Note

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

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

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

<Example of DVD>



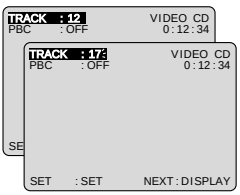
- For some functions the setting will be registered immediately without pressing *SET*.
- When numbers are displayed (e.g. title number), *NUMBER keys* are also available.

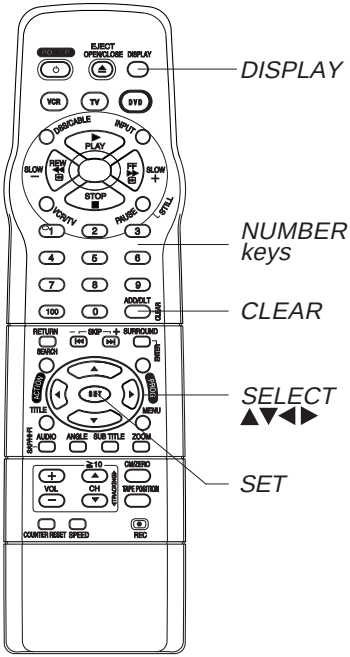
To make corrections, press ▲▼ and *SET* repeatedly to move to error, then correct.

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

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

<Example of Video CD>



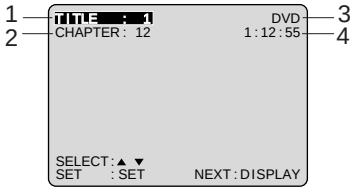


Notes

- 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.

Detailed Descriptions of each On-Screen Display

Disc information screen (for DVD)



1. TITLE No.

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

2. Chapter No.

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

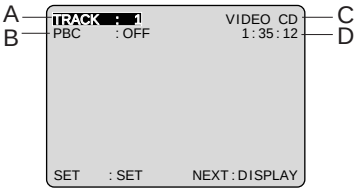
3. Disc currently being played

4. Elapsed playing time

The screen may be changed by selecting the elapsed time.

- Change the elapsed time by **pressing *NUMBER keys***.
  e.g., press 0 - 1 - 2 - 3 - 4 - 5 for 01 : 23 : 45.
- This function does not work with some discs.

Disc information screen (for Video CD/ CD)



A. Track No.

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

B. Playback control ON/OFF

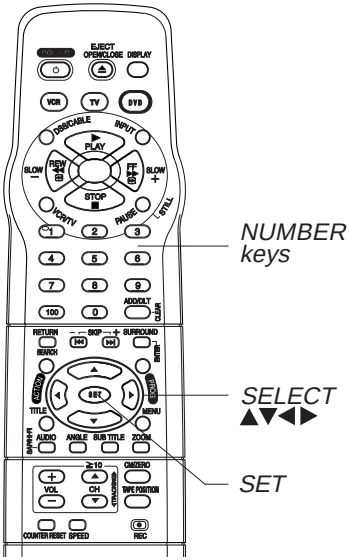
[Video CD with playback control only]

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

C. Disc currently being played

Video CD	CD

D. Elapsed playing time



Notes

- 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.

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

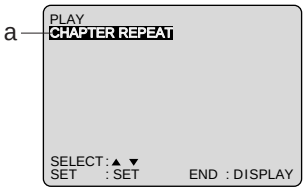
Detailed Descriptions of each On-Screen Display

DECK information screen (for DECK)

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

a. Repeat Play

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

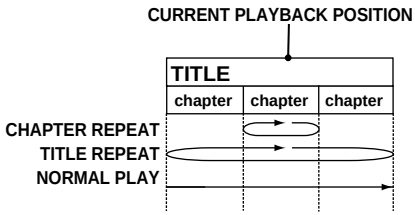


b. Play mode [Video CD/ CD only] (See p. 39 or 40.)

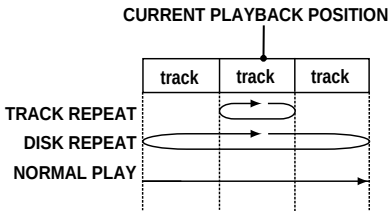
PROGRAM PLAY	program play
RANDOM PLAY	random play
–	normal play

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.

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 in a specific rating level which may be unsuitable for children.

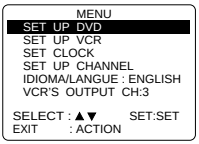
- Some DVDs are encoded with a rating level. If the disc rating is higher (stricter) than the one you preset, playback will be prohibited.

DVD Lock (DVD only)

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

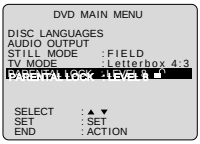
1 **Press *ACTION**** to display MENU.

2



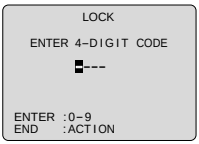
Press ▲▼ to select "SET UP DVD," and **press *SET*** to display DVD screen.

3



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

4



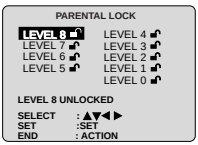
1) **Press *NUMBER keys*** to enter your secret code.
2) Enter same secret code again for confirmation.
3) **Press *SET*** to display.

- 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.

5



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

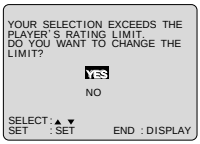
LEVEL 0 : LOCK ALL, Playback of all DVDs, CDs and Video CDs is prohibited.
(Use to prohibit play of mature theme DVDs not encoded with rating level.)
LEVEL 1 : mature theme DVDs
LEVEL 2 : DVDs expressly for children can be played back.
LEVEL 3 to 7 : DVDs for general audiences/children can be played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

6 **Press *ACTION*** three times to end setup.

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. When "NO" is selected, blocked programs cannot be viewed.

Change your secret code

- You will need your current code. Do step 1 ~ 3 left.
  Enter current secret code.
  Press *CLEAR* to clear the code.
  Do step 4 to enter new code.

Notes

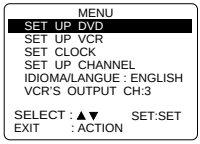
- DO NOT forget your secret code.

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

Settings for DVD Operation

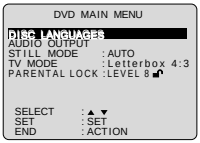
1 **Press *ACTION*** in Stop mode to display MENU.

2



Press ▲▼ to select "SET UP DVD," and **press *SET*** to display screen.

3



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. 46.)
You can set the audio output that comes from the digital audio output terminal.

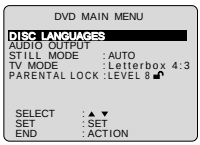
STILL MODE (See p. 47.)
To select "FIELD" (Field still) or "FRAME" (Frame still) to prevent jitter or make small text or fine patterns clearly visible in a still picture. When "AUTO" is set "FIELD" or "FRAME" is selected automatically.

TV MODE (See p. 47.)
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)

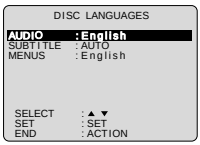
To select and set the language of the audio soundtrack, subtitles, or title/DVD menus for all discs to be played.

4



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

5



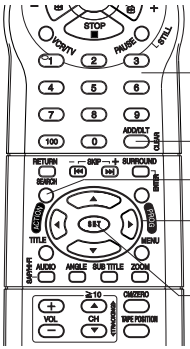
Press ▲▼ to select an item, and **press *SET*** repeatedly for desired language. (Please refer right.)

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

Once initial settings are done, they remain in memory (even after power off) until changed. This means DECK will always 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
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
OTHER ✶✶✶✶: Other language selection*1

"MENUS" selections

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

To enter OTHER ✶✶✶✶ code number,

Press *NUMBER keys* (Please refer to language codes on p. 48).
To make corrections, **press ◀** repeatedly to delete language code number, and correct.

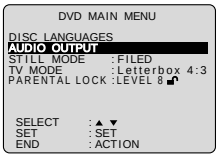
*1 If the selected language is not offered, the original disc language is selected.

Audio Output

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

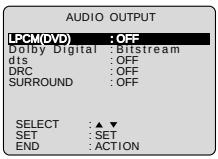
1 **Do steps 1 and 2 on p. 45.**

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 or 96 kHz, no digital audio is output. (Factory preset)

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

■ "Dolby Digital" selections

Bitstream: Dolby Digital bitstream (1ch-5.1ch) is output. (Factory preset)

OFF: No output.

■ "dts" selections

Bitstream: dts bitstream is output. (Factory preset)

OFF: No output.

■ "DRC (Dynamic Range Compression)" selections

OFF: Normal audio range is selected. (Factory preset)

ON: For dynamic sound even at low volume, this is useful for late-night listening. [Dolby Digital DVDs only].

■ "SURROUND" selections

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

OFF: No Surround Sound effect. (Factory preset)

ON: Surround Sound effect.

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

Type of amplifier to be connected	Recommended setting		
	LPCM (DVD)	Dolby Digital	dts
No amplifier is connected	OFF	OFF	OFF
AV amplifier (with digital audio input connector) without Dolby Digital/dts decoder	PCM*1	OFF*2	OFF*2
AV amplifier including Dolby Digital decoder	PCM*1	Bitstream	OFF
AV amplifier including Dolby Digital/dts decoder	PCM*1	Bitstream	Bitstream*3

- Make settings according to amplifier connected to optical audio output as shown in above table.
- When a dts decoder is not connected, to enjoy dts DVD, please select audio output other than dts at the dts DVD menu screen. Otherwise, there will be no sound.

*1 Audio Output 2 from DECK is converted to 48 kHz/16 bit in addition to audio from digital audio output.
To enjoy high quality sound at 48 kHz/20 bit /24 bit or 96 kHz, connect the amplifier or decoder directly to the Audio Output 2 connectors, not to the Digital Audio Output connector. [Select "OFF" at the "LPCM(DVD)".]

*2 When connecting an amplifier (with an optical digital input connector) which does not contain the Dolby Digital or dts decoder, be sure to select "OFF".
If "Bitstream" is selected, starting DVD play may cause such a high level of noise as to be harmful to your ears and damage the speakers.

*3 When a dts decoder is connected, please select "Bitstream" in "dts". If "OFF" is selected, there will be no sound.

Notes

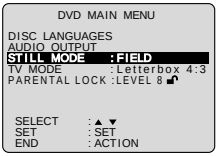
- Turn off other surround effects when using this surround effect.
- For optimum effect, the distance between DECK and the listener should be about 3 or 4 times the distance between the right and left front speakers.

Still Mode

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

1 **Do steps 1 and 2 on p. 45.**

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.

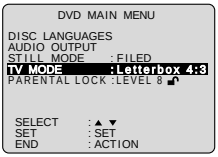
3 **Press ACTION** twice to exit this mode.

TV Mode

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

1 **Do steps 1 and 2 on p. 45.**

2



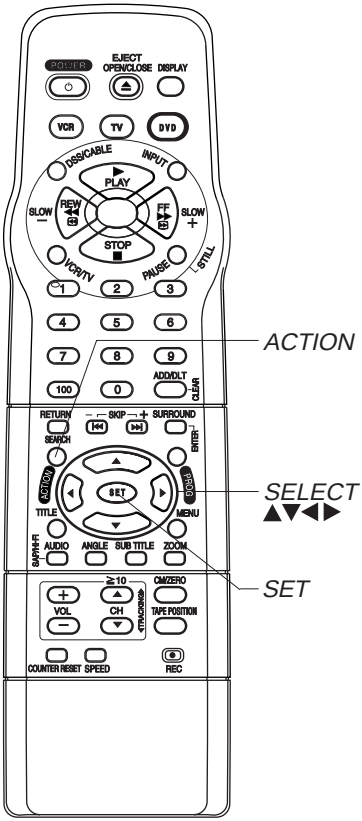
Press ▲▼ to select "TV MODE," and **press *SET*** repeatedly for mode. (See below.)

Pan & Scan 4 : 3 (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.

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

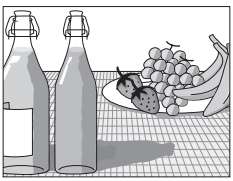
16 : 9 :
Set "16: 9" when using Wide-screen TV.

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

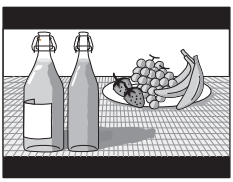


Example

- Pan & Scan (Factory preset)



- Letterbox



DVD Operation

Language Code List

Enter the appropriate code number for the initial settings “AUDIO”, “SUBTITLE” and/or “MENUS” (see p. 45).

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
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PRESS CH UP KEY AGAIN	If no active channels are found for CHANNEL MEMORY...	12 16
PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set...	18
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 PLEASE INSERT A 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	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 CABLE/DSS MODE USE VCR : VCR KEY USE DVD : DVD KEY USE TV : TV KEY	If you press an invalid key on the remote while in CABLE/DSS mode...	28 29 34
REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE DVD : DVD KEY USE CABLE/DSS : CABLE/DSS	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, or DECK reads data from a stained or scratched disc in DVD mode. Also, if the type of disc is other than DVD, Video CD or CD...	4
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)
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 Record 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. • 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.
ACTION and PROG buttons do not respond...	• These buttons 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 search play...	• Some discs may have sections which prohibit Forward/Reverse search. (p. 23)
Play does not start even when title is selected...	• Confirm the “DVD LOCK” setting. (p. 44)
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 “Changing subtitle languages” setion (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 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

Service Center List

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

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

Accessory Purchases:

Customer Orders Only 800-332-5368 (Customer Orders Only)
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032
(6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)
(Visa, MasterCard, Discover Card, American Express, Check)

Factory Servicenters Locations

CALIFORNIA
6550 Katella Avenue
Cypress, CA 90630

800 Dubuque Avenue
S. San Francisco, CA 94080

3878 Ruffin Road
Suite A
San Diego, CA 92123

COLORADO
1640 South Abilene Street Suite D
Aurora, CO 80012

FLORIDA
3700 North 29th Avenue
Suite 102
Hollywood, FL 33020

GEORGIA
8655 Roswell Road
Suite 100
Atlanta, GA 30350

ILLINOIS
9060 Golf Road
Niles, IL 60714

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

MARYLAND
62 Mountain Road
Glen Burnie, MD 21061

MASSACHUSETTS
60 Glacier Drive
Suite G
Westwood, MA 02090

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

OHIO
2236 Waycross Road
Civic Center Plaza
Forest Park, OH 45240

PENNSYLVANIA
2221 Cabot Blvd. West
Suite B
Langhorne, PA 19047

TEXAS
13615 Welch Road
Suite 101
Farmers Branch, TX 75244

WASHINGTON
20425-84th Avenue South
Kent, WA 98032

HAWAII
99-859 Iwaiwa Street
Aiea, Hawaii 96701
Phone (808)488-1996
Fax (808)486-4369

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 January 2001

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

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

PRODUCT	PARTS	LABOR	SERVICE	CONTACT NUMBER
CAMCORDER	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS NINETY (90) DAYS	Carry-In or Mail-In	1-800-211-PANA(7262)
DVD/VCR DECK	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail-In	1-800-211-PANA(7262)
DIGITAL STILL CAMERA	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS NINETY (90) DAYS	Carry-In or Mail-In	1-800-272-7033
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail-In	1-800-211-PANA(7262)
TV/VCR, TV/DVD/VCR COMBINATION	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - 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 CRT - NINETY (90) DAYS	In-Home or Carry-In	1-888-843-9788

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

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

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

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

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

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

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

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

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 above exclusions or limitations 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 Consumer Affairs Department at the Panasonic Consumer Electronics Company address above.

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

warvid 02/ 12/ 2001

Como realizar la Configuración Inicial

1 **Encienda el TV y ajústelo al canal 3 o Vídeo.**

2 **Al encender el VCR** con el control remoto.
Al encender el VCR por primera vez, en la pantalla aparecerá SELECT LANGUAGE.

3

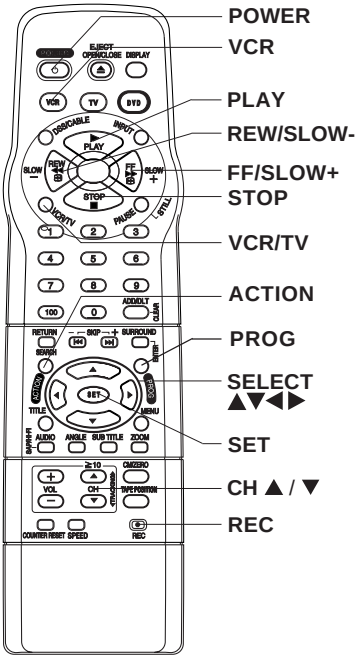
SELECT LANGUAGE

PRESS CH ▲ : ENGLISH
OPRIMIR CH ▼ : ESPAÑOL
APP. VCR/TV : FRANÇAIS

TO CHANGE VCR'S OUTPUT CH, PRESS ACTION KEY.

Presione CH ▲ para seleccionar Inglés.
Presione CH ▼ para seleccionar Español.
Presione VCR/TV para seleccionar Francés.

- Si la pantalla no aparece, verifique las conexiones entre el DECK y el TV, y si el TV está sintonizado al canal 3, intente cambiándolo al canal 4.
- Cuando desee cambiar el canal de salida del DECK, por favor remítase Canal de Salida del VCR en la página 19.
- Si ajusta el idioma equivocado, realice los pasos de “Reajuste de Todas las Funciones de Memoria del VCR” en la página 17.



4

FIJACION AUTO. (CA/RELOJ)

CONECTE A SU ANTENA Y SI USA UNA CAJA DE TV POR CABLE SINTONICE AL CANAL PBS DE SU LOCAL LUEGO...

POR FAVOR OPRIMIR CH UP

Presione CH ▲ para comenzar la operación de Ajuste Automático Canal/Reloj.

Caso: La conexión “CABLE/DSS ▶ VCR ▶ TV”
- Encienda la caja de cable y ajuste su canal de Estación Pública de Radiodifusión (PBS) en su uso horario.
- Si utiliza un receptor DSS, este tiene que estar apagado.

5 El ajuste Canal/Reloj se lleva a cabo automáticamente.

Caso 1
(Configuracion completada)

5/13/2001 DOM 2:20PM
HORA VERANO IEGA : ACT
CANAL FIJADO : CA 10

FIJACION AUTOMATICA COMPLETO

TERMINAR : CH UP

Presione CH ▲ para salir.

Caso 2
(Configuracion incompleta)

FIJACION AUTOMATICA DEL RELOJ ES INCOMPLETO

POR FAVOR FIJE EL RELOJ CON LA TECLA ACTION

Presione ACTION para visualizar la pantalla del menú RELOJ.

FIJAR RELOJ
1/-- /---- --:--
VERANO : ACT

ELEGIR MES

ELEGIR : ▲ ▼
FIJAR : SET
SALIR : ACTION

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).

FIJAR RELOJ
11/11/2001 DOM 12:00PM
VERANO : ACT

FIJACION ES COMPLETO

FIJAR: SET RETROCEDER: ◀
INICIAR: ACTION

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

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 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 de nuevo o presione PLAY** para liberar.

■ **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 imágenes cuadro a cuadro. **Presione PLAY** para liberar.

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 (pág. 6).**

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

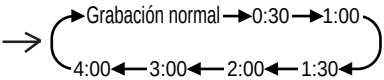
3 **Presione SPEED** para seleccionar la velocidad de grabación (pág.6)
- SP = Reproducción estándar,
- LP = Larga duración,
- SLP = Superlarga duración.

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

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

■ **Grabación de un toque** (grabar en marcha),

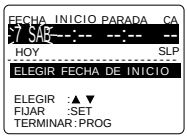
Presione REC repetidamente para ajustar la hora de grabación (30 min - 4 horas).
- La videograbadora termina la grabación a una hora programada.



Programación fácil para la grabación con temporizador

1 **Presione PROG** para visualizar PROGRAM.

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 ▶ para ajustar.

Orden para elegir

Ejemplo

Fecha de hoy — 7 → 8 — 9 ····· 31 — 1 — 2 ····· 6 → DIARIO → SEMANAL (LUN) — SEMANAL (DOM) ····· SEMANAL (SAB) → 7

▲/▼ **Orden para elegir**

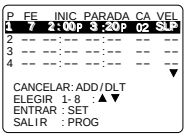
2) Para ajustar los ítems que quedan,

presione ▲▼ para seleccionar y

presione ▶ para ajustar los tiempos de INICIO/PARADA, CANAL, o entrada de LÍNEA (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 ▶ para ajustar. Luego repita el paso 2.
O
Presione nuevamente PROG para salir.

Guía para rápida consulta

Operaciones básicas del DVD

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

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

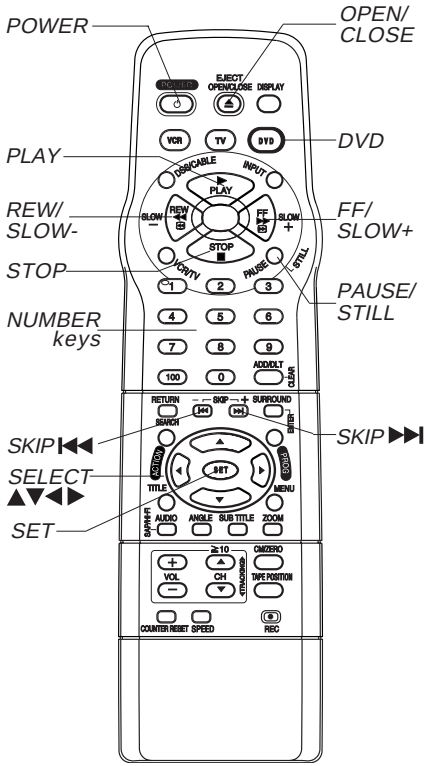
3 1) **Presione *OPEN/CLOSE*.**
2) Ponga un disco en la bandeja de disco.
• Sujete el disco sin tocar ninguna de sus superficies, póngalo con el lado donde esté impreso el título hacia arriba, alinéelo con las guías y póngalo en su posición apropiada.
Disco de 3”(8 cm) Disco de 5” (12 cm)

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* 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***)

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 Visualizaciones en pantalla.

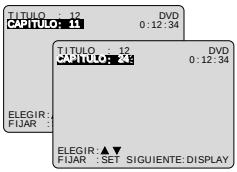
- Cada vez que se **presione *DISPLAY***, la visualización en pantalla cambia como se muestra a continuación.

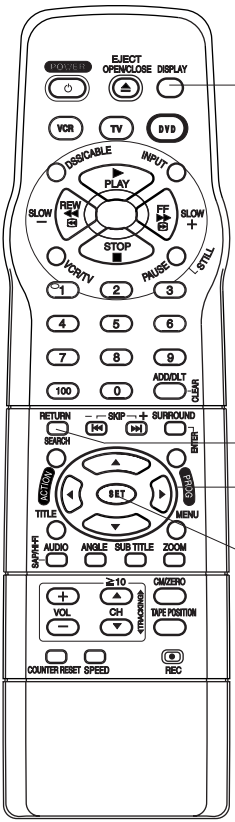
Información seleccionada del disco
↓
Información seleccionada de la unidad
↓
Pantalla normal

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 ***RETURN*** o ***DISPLAY***.





Fijaciones iniciales

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

2 **Presione ▲▼ ◀▶**
para seleccionar “PREPARA DVD”.
Presione *SET*.

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 fijo” o “Cuadro fijo” para prevenir inestabilidad o para permitir ver textos pequeños o patrones finos claramente en el modo de imagen fija.

PREFERENCIA
Para seleccionar si el material del vídeo para pantalla ancha será vuelto a reproducir en el estilo Pan&Scan o en el estilo Letterbox o en el estiro 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 :
Originl : Se seleccionará el idioma original de cada disco.
OTRO ** :** Se puede seleccionar el otro idioma.

Seleccione “SUBTITULO”
(Fijación de fábrica)
AUTO : Se seleccionará el mismo que fue seleccionado en la preparación de “AUDIO”.

- Si el idioma seleccionado en la preparación de “AUDIO” se utiliza durante la reproducción, los subtítulos no aparecerán.
- Si se utiliza otro idioma durante la reproducción, los subtítulos aparecerán en el idioma seleccionado en la preparación de “AUDIO”

Inglés / Español / Francés :
OTRO ** :** Se puede seleccionar el otro idioma.

Seleccione “MENU”
(Fijación de fábrica : inglés)
Inglés / Español / Francés :
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

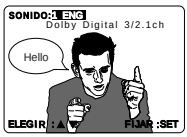
Presione ▲▼ para seleccionar el idioma deseado.

Presione ▶ (o ◀) para ajustar.

Presione ▲▼ para seleccionar “ON” o “OFF.”

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 

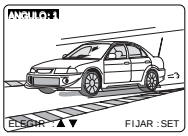
Presione *AUDIO* durante la reproducción para visualizar la pantalla AUDIO.

2

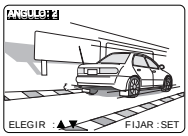
Presione ▲▼ para seleccionar idioma.

Visión desde otro ángulo [DVD solamente]

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

1 

Presione *ANGLE* durante la reproducción para visualizar la pantalla de ángulo.

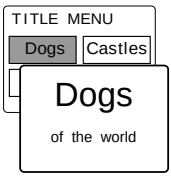
2 

Presione ▲▼ para seleccionar el ángulo deseado.

Utilización de un menú de títulos [DVD solamente]

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

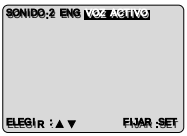
1 **Presione *TITLE* durante la reproducción.** Ahora se visualiza una lista de los títulos del disco.

2 

Presione ▲▼ ◀ ▶ o la **(s)** tecla **(s) *NUMBER*** para seleccionar el título deseado.
Presione *SET*.

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

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

2 

Presione ▲▼ (o ◀ ▶) para seleccionar el ajuste deseado.

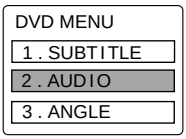
Presione ▶ (o ◀) para ajustar. (DVD solamente)

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

Utilizacion de un menu de DVD [DVD solamente]

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

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

2 

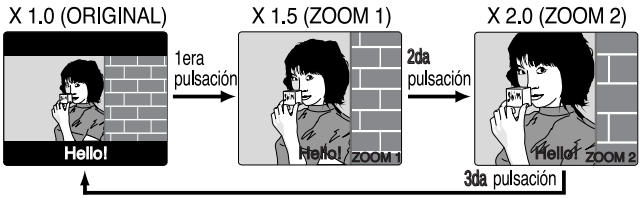
Presione ▲▼ ◀ ▶ o la ***(s)* tecla *(s)* *NUMBER*** para seleccionar el ítem deseado.
Presione *SET*.

Ampliación de la imagen [DVD solamente]

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

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 o hacia abajo.
■ Use los botones ◀ y ▶ para desplazar la posición hacia la izquierda o hacia la derecha.



Guía para rápida consulta

Index

DECK & VCR

A ACTION 18
ADD/DELETE (Add or Delete a Channel) 19
Audio Mode 27
Auto Shut-Off 33
B Batteries 4
C Channel (“SET UP CHANNEL”) 18
Clock (“SET CLOCK”) 18
Commercial Skip 31
COUNTER RESET 32
D DISPLAY 19
DSS/CABLE mode 28
DST (Daylight Saving Time) 19
Dubbing 35
E EJECT 20
ENTER (For tuning TV Channel) 28
F FAST FORWARD/SEARCH 20
H Head Cleaning 6
I Index Search 30
Indicator (Multi Function Display) 11
INPUT 35
M Multi-Brand Control 28, 29
O One Touch Recording 21
P PLAY (Playback a Tape) 20
PAUSE/STILL (Still Picture) 20
Program End Search 30
PROGRAM 24
R RECORD (Record on a Tape) 21
Record Tab 6
Remote Warning 34
Repeat Play 32
Reset All Memory Functions 17
REWIND/SEARCH 20
S SAP/Hi-Fi 26, 27
SEARCH (Index and Program End Search) 30
Service Center List 52
SLOW+/SLOW- (Slow Motion Picture) 20
Spanish Quick Use Guide ..... 54 ~ 59
Specifications 7
SPEED 21
Stereo/ SAP/ Mono Broadcast 26
Still (Freeze) Picture 20
STOP 20
T Tape Position and Tape Status Feature 34
Timer Recording 24
Trouble Shooting 50, 51
TV mode 28
V VCR Lock 33
VCR mode 28
VCR/TV 21
VOLUME +/– (TV Volume) 33
W Warning and Instruction Displays 49
Warranty 52, 53
Weak Signal Display 33
Z Zero Search 32

DVD

A ACTION 44
ANGLE (Multiple Angle Viewing) 37
AUDIO (Audio Soundtrack Language) 36
Audio Output (For Selecting Audio Output) 46
Auto Power Off Function 23
C CLEAR 39, 44
COMPONENT Video Output 10, 13
D Disc Languages 45
DISPLAY (To display “On-Screen Display”) 41
DVD Menu 38
DVD mode 28
DVD Lock Ratings 44
F Frame by Frame Picture 23
Forwards/Reverse Chapter/Track 23
Forwards/Reverse Scene Search 23
K Karaoke (Vocal Selection for Karaoke Discs) 37
L Language Code List 48
M MENU (To display DVD Menu) 38
Multiple Angle Viewing 37
O OPEN/CLOSE 22
OPTICAL DIGITAL AUDIO OUTPUT 15
P PLAY (Play a Disc) 37
Program Play, Program Repeat Play 39
TV Mode 47
V Video CD 23
R Random Play 40
Repeat Play 43
Resume Function 23
Return 22
S SEARCH (Forward/Reverse Scene Search) 23
SKIP ▶▶| or |◀◀
(Forward/Reverse Chapter/Track) 23
SLOW+/SLOW- (Slow Motion Picture) 23
STILL (Still Picture or Pause) 23
Still Mode (For selecting “FIELD” or “FRAME”) 47
STOP 22
SUB TITLE (For selecting Subtitle Language) 36
SURROUND 23
S-VIDEO OUT 10, 13
T TITLE (Title Menu) 38
Z ZOOM (Picture Zoom) 38

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America
One Panasonic Way Secaucus,
New Jersey 07094

Panasonic Sales Company (“PSC”), Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 de Infantería. Km. 9.5
San Gabriel Industrial Park, Carolina,
Puerto Rico 00985

Printed in Indonesia
LSQT0452A
S0301-0

P