**D**OUBLE*FEATURE*™

Omnivision VHS

# Panasonic®

DVD/VCR DECK
## Operating Instructions

Model No. PV-D4732/PV-D4732S

▶◀ DOLBY
D I G I T A L

**DVD**
VIDEO

**MP3**
PLAYBACK

**CD-R/RW**
*playback*
Ability to play back may
depend on recording conditions

dts®
DIGITAL OUT

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.)

LSQT0618B

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

**Initial Setup
(Connection)**

**Basic
Operation**

**VCR
Operation**

**DVD
Operation**

**For Your
Information**

# 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.

<u>POLARIZED PLUG CAUTION:</u>
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.

<u>GROUNDING PLUG CAUTION:</u>
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 tilted 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.
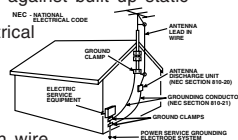
**2  KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS**
An outside antenna system should be located well away from power lines, electric light or power circuits and where it will never come into contact with these power sources if it should happen to fall. When installing an outside antenna, 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.
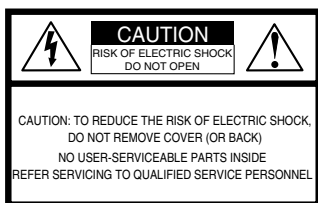
2

# 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.

```
         CAUTION
      RISK OF ELECTRIC SHOCK
          DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
      DO NOT REMOVE COVER (OR BACK)
      NO USER-SERVICEABLE PARTS INSIDE
  REFER SERVICING TO QUALIFIED SERVICE PERSONNEL
```

This symbol 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 ATTEMPT TO REPAIR THE UNIT YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

**CAUTION:**
LASER RADIATION WHEN OPEN DO NOT STARE INTO BEAM.

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

(Inside of product)

## FCC NOTE:

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

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

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. ①

**3**

# Before Using

## Congratulations

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you 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. _____
• Serial No. _____

### Accessories

☐ Remote Control
  LSSQ0345 (PV-D4732)
  LSSQ0352 (PV-D4732S)
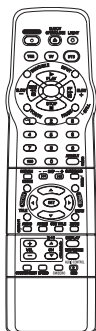
☐ Batteries 2 "AA"

☐ 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

**Do not try to play Photo CD.**

   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.

Disc tray
Disc
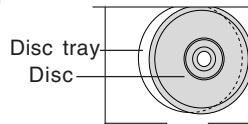
**To clean disc surface**
With a soft, damp (water only) cloth, gently wipe from the center hole to the outer edge as shown below. (Wiping in a circular pattern will scratch the surface.)
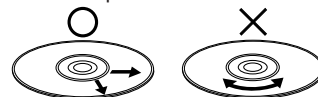
**If disc is brought from a cold to a warm environment, moisture may form on the disc**
Wipe away moisture with a soft, dry, lint-free cloth before using disc. (See above.)

**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.).

# Table of Contents

Initial Setup (Connection)

Basic Operation

VCR Operation

DVD Operation

For Your Information

5

# 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.

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

END      : PLAY
```

- **Use "dry" type head cleaning cassette only.** (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.
- If head clog symptoms persist, contact your nearest Factory Servicenter or authorized Servicenter (see p. 52).

## Built-in Head Cleaner

A clean video head helps produce a clear picture.
So, we have equipped your DECK with a built-in, non-chemical head cleaning system that helps prevent clogging of the video heads. Cleaning is performed each time you load or unload a video cassette.

- This feature is preventative only, If your video heads are seriously clogged, consider the use of a chemical non-abrasive head cleaning kit or take your DECK to a Servicenter.
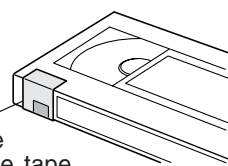
## Prevent Accidental Tape Erasure

Break off the tab to prevent recording.

Record Tab

Screw driver
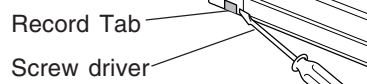
To record again

Cover the hole with cellophane tape.

## Record/ Playback Time

Only use tapes with the **VHS** mark in this DECK.

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

## Cleaning DECK

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

## Features for a Quality Picture (VCR)

**Digital Auto Picture**
Automatically controls the video output signal for less noise depending on the tape condition.
**Digital Auto Tracking**
Continuously analyzes the signal and adjusts for optimum picture quality.
**Manual Tracking Control**
**(to reduce picture noise)**
Use during Playback and Slow Motion mode to reduce picture noise.
**Press CH** (TRACKING) ▲/▼ on the remote control or on DECK until the picture clears up.
To return to Auto Tracking, **press POWER** off, then on again a few seconds later.
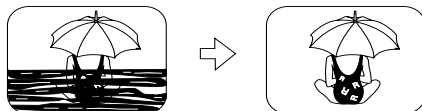
**V-Lock Control (to reduce picture jitter)**
In Still mode, **CH** (TRACKING) ▲/▼ operate as a V-Lock control.

## Specifications

**Power Source:** 120 V AC, 60 Hz
**Power Consumption:** Power On: Approx. 32 watts, Power Off: Approx. 4 watts
**Video Signal:** EIA Standard NTSC color
**Video Recording System:** 4 rotary heads helical scanning system
**Audio Track:** 1 track (Normal), 2 channel (Hi-Fi Audio Sound)
**Tuner:**
**Broadcast Channels:** VHF 2 ~ 13, UHF 14 ~ 69
**CABLE Channels:** Midband A through I (14 ~ 22), Superband J through W (23 ~ 36)
Hyperband AA ~ EEE (37 ~ 64), Lowband A-5 ~ A-1 (95 ~ 99)
Special CABLE channel 5A (01), Ultraband 65 ~ 94, 100 ~ 125
**Input/Output Terminal:** Audio/Video Line Input/Output, RF Input/Output
**Input Terminal:** Audio/Video Line Input (Front)
**Output Terminal:** S-Video Output (DVD only), Component Video Output (DVD only)
Audio Output 2 (L), (R)
**Operating Temperature:** 5 °C ~ 40 °C (41 °F ~ 104 °F)
**Operating Humidity:** 10 % ~ 75 %
**Weight:** 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) inch
**Discs Played**
**(1) DVD-VIDEO Disc** 5" (12 cm) single-sided single-layer
5" (12 cm) single-sided double-layer
5" (12 cm) double-sided double-layer (one layer per side)
3" (8 cm) single-sided single-layer
3" (8 cm) single-sided double-layer
3" (8 cm) double-sided double-layer (one layer per side)
**(2) Compact Disc** 5" (12 cm) disc
**(CD-DA, VIDEO CD)** 3" (8 cm) disc
**Digital Audio Output:** Digital Optical Connector
**Pickup:** Wavelength: 655 nm (DVD), 790 nm (Video CD/CD)
Laser power: CLASS II
Note: • Designs and specifications are subject to change without notice.
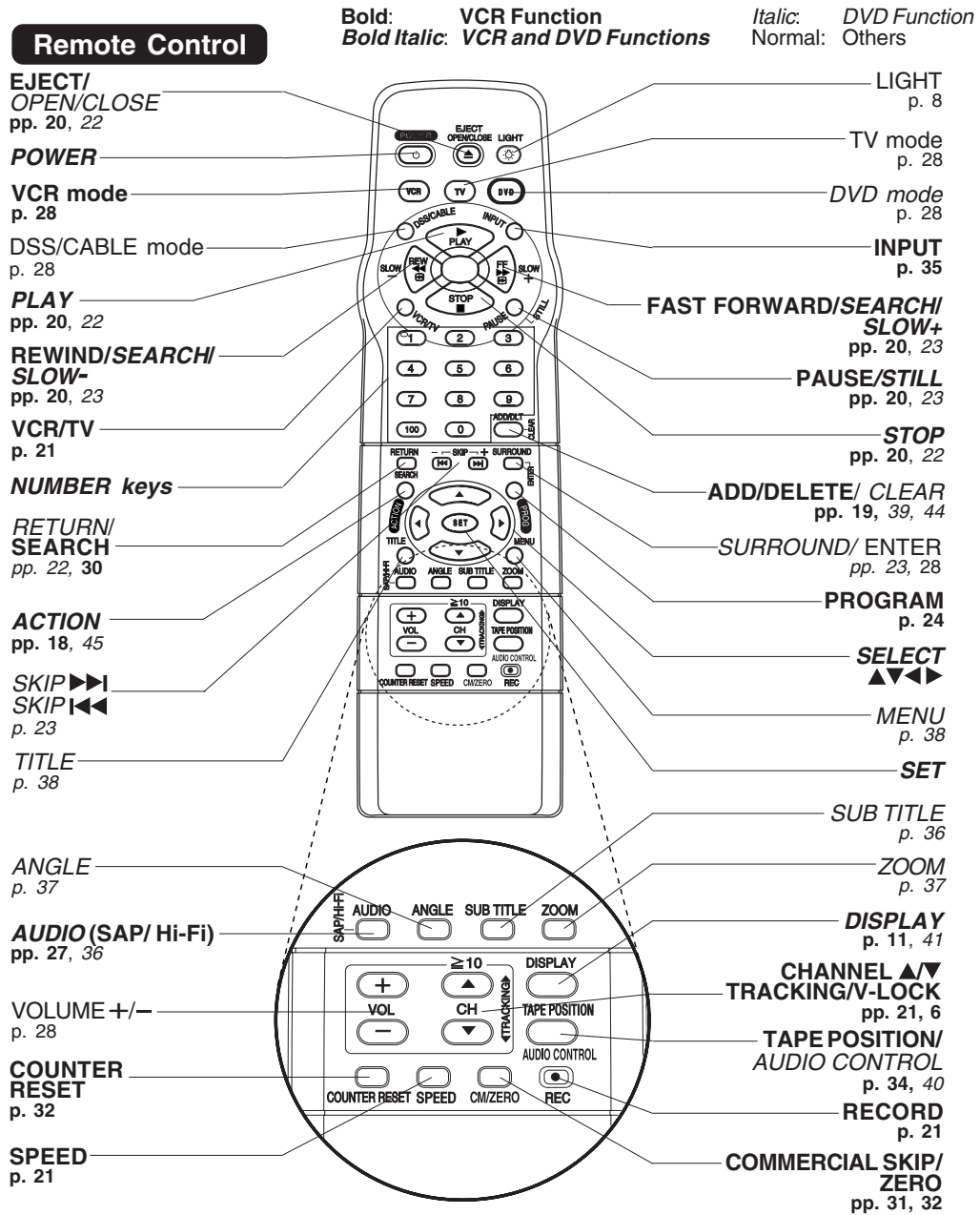
## Definition of Terms (DVD)

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

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

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

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

**Subtitles:** Written dialogue which appears at the bottom of the screen.

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

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

**Track Number:** Numbers assigned to tracks on Video CDs and CDs to allow specific tracks to be quickly located.

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

**7**

# Location of Controls

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

### Remote Control

**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**, *23*

**VCR/TV**
**p. 21**

**NUMBER keys**

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

***ACTION***
**pp. 18**, *45*

*SKIP* ▶▶|
*SKIP* |◀◀
*p. 23*

*TITLE*
*p. 38*

*ANGLE*
*p. 37*

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

VOLUME **+/−**
p. 28

**COUNTER**
**RESET**
**p. 32**

**SPEED**
**p. 21**

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LIGHT
p. 8

TV mode
p. 28

*DVD mode*
*p. 28*

**INPUT**
**p. 35**

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

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

***STOP***
**pp. 20**, *22*

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

*SURROUND/* ENTER
*pp. 23*, 28

**PROGRAM**
**p. 24**

***SELECT***
▲▼◀▶

*MENU*
*p. 38*

***SET***

*SUB TITLE*
*p. 36*

*ZOOM*
*p. 37*

***DISPLAY***
**p. 11**, *41*

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

**TAPE POSITION/**
*AUDIO CONTROL*
**p. 34**, *40*

**RECORD**
**p. 21**

**COMMERCIAL SKIP/**
**ZERO**
**pp. 31, 32**

## Light Tower Universal Remote Control

**Light button:**   When Light button is pressed, (DVD, TV, VCR, PLAY, STOP, REW, FF) buttons will light up for 5 seconds for easy button location.
                     If no button is pressed in 5 seconds, the light goes out to conserve the battery.
**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.

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

## Front View of DECK

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

**If the disc cannot be removed...**
First, unplug DECK. Then, prepare a rigid
wire (e.g. an extended paper clip) and,
applying moderate force, insert it straight
into the hole at the base of the tray.
The tray will eject a little. Now, pull the tray
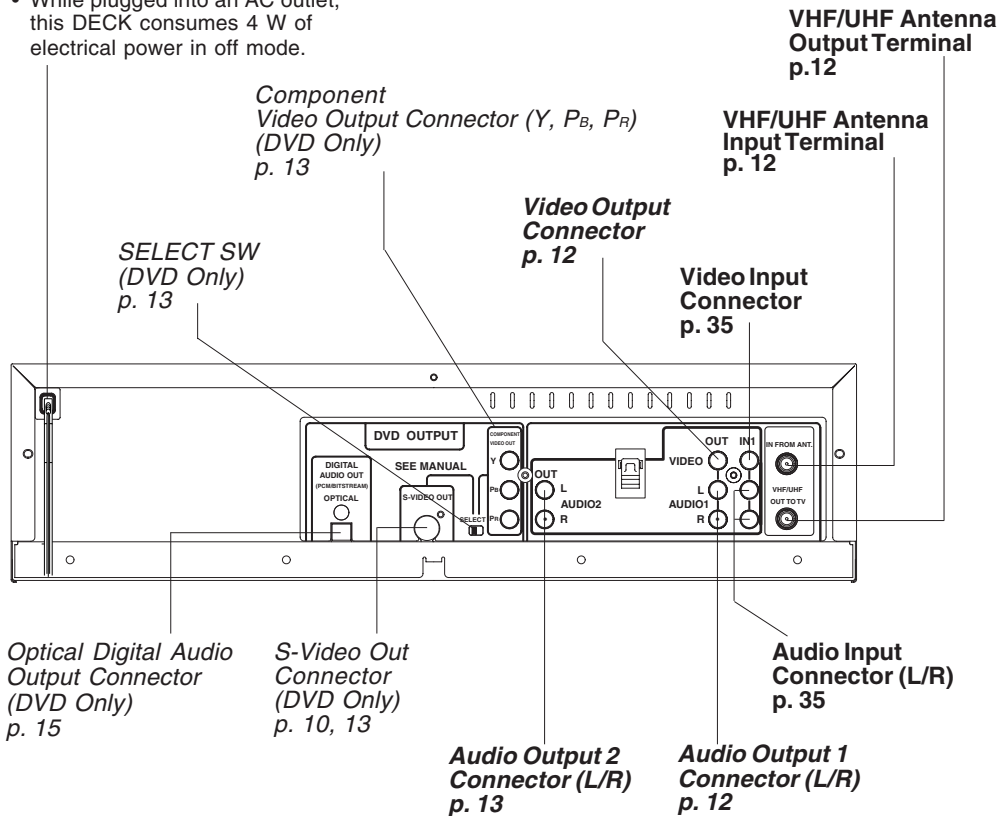all the way out and remove the disc.

Over 2 inches

**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. 35**

Multi Function
Display
p. 11

Remote
Sensor

*OPEN/CLOSE*
*p. 22*

*PAUSE*
*p. 23*

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

*PLAY*
*p. 22*

*SKIP ▶▶|*
*SKIP |◀◀*
*p. 23*

**VCR/TV
p. 21**

**REC
p. 21**

*STOP*
*p. 22*

**9**

**Rear View of DECK**

**Bold**: VCR Function
*Italic*: *DVD Function*
***Bold Italic***: ***VCR and DVD Functions***
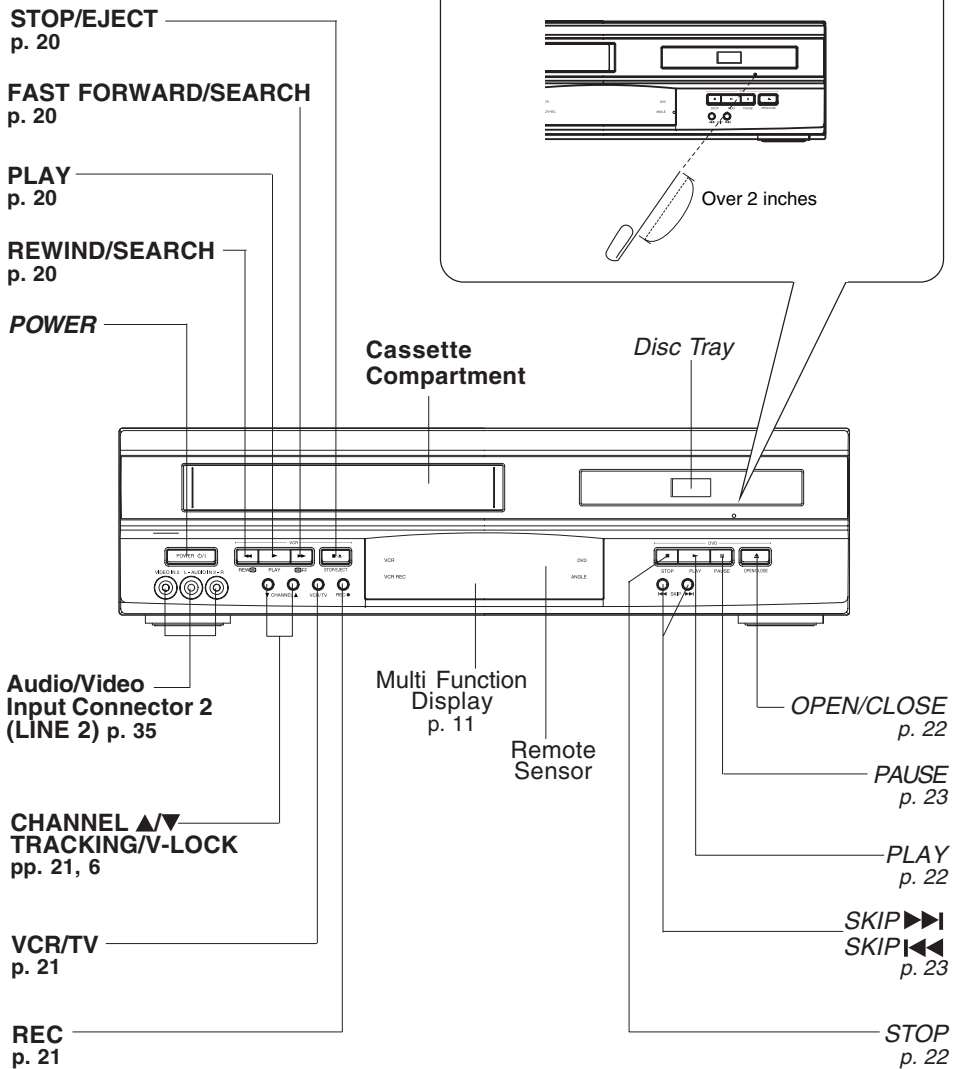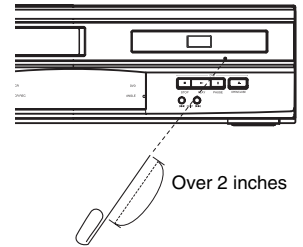
*AC Power Plug*
• While plugged into an AC outlet, this DECK consumes 4 W of electrical power in off mode.

**VHF/UHF Antenna Output Terminal p.12**

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

**VHF/UHF Antenna Input Terminal p. 12**

*Video Output Connector p. 12*

*SELECT SW (DVD Only) p. 13*

**Video Input Connector p. 35**

DVD OUTPUT

DIGITAL AUDIO OUT (PCM/BITSTREAM) OPTICAL   SEE MANUAL

COMPONENT VIDEO OUT   Y   Pв   Pʀ   SELECT

S-VIDEO OUT

OUT   L   AUDIO2   R

VIDEO   OUT   IN1   IN FROM ANT.

L   AUDIO1   R

VHF/UHF OUT TO TV

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

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

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

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

***Audio Input Connector (L/R) p. 35***

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

| | ***Video Output Audio Out 1 Audio Out 2*** | *Component Video Output* | *S-VIDEO OUT* |
|---|---|---|---|
| **VCR** | YES | N/A | N/A |
| *DVD* | YES | YES ← *SELECT SW* (Switchable) → YES | |

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

# Displays (On Screen & Multi Function)

## On Screen Displays (VCR)

### Function & Channel Displays

CH 08
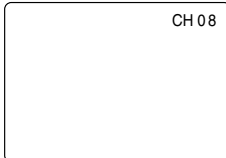
When a function button is pressed, e.g. PLAY, or you change channels, a 5-second display appears.
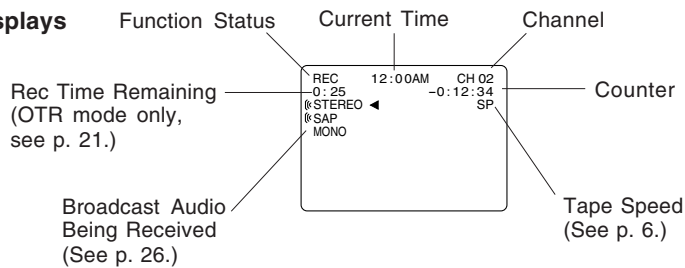
### Blank Tape/ No Video Signal Indications

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

### VCR Status & Clock Displays
To display or remove overlay at right,

➜ **press DISPLAY**.

Function Status          Current Time          Channel

```
REC      12:00AM    CH 02
-0:25                -0:12:34
((•STEREO   ◄              SP
((•SAP
  MONO
```

Rec Time Remaining (OTR mode only, see p. 21.)

Counter

Broadcast Audio Being Received (See p. 26.)

Tape Speed (See p. 6.)

## 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.

```
• VCR          ■ VCR Hi-Fi TIMER    DVD •
                 12:30 A            ANGLE •
• VCR REC             M
```

### 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 up before noon. PM is not displayed.

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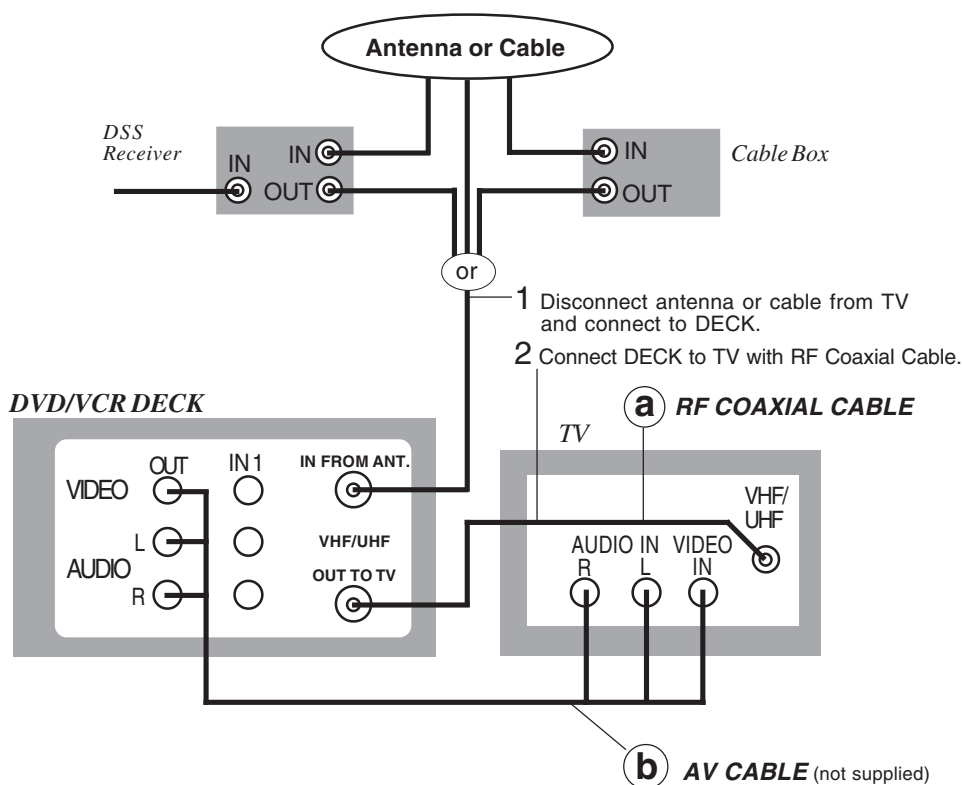Lights up when a scene recorded at different angles is detected. See p. 37. (DVD only).

**11**

# Connections

## Basic Connections

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

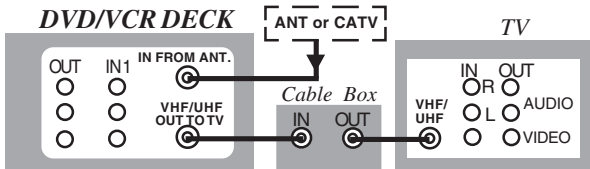■ **DSS Receiver ➡DECK ➡TV**    ■ **DECK ➡ TV**    ■ **Cable Box ➡DECK ➡ TV**

**Antenna or Cable**

*DSS Receiver*    IN    IN    OUT

IN    OUT    *Cable Box*

or

1 Disconnect antenna or cable from TV and connect to DECK.

2 Connect DECK to TV with RF Coaxial Cable.

*DVD/VCR DECK*

VIDEO    OUT    IN 1    IN FROM ANT.

AUDIO    L    VHF/UHF    OUT TO TV

R

ⓐ *RF COAXIAL CABLE*

*TV*

AUDIO IN    VIDEO    VHF/ UHF
R    L    IN

ⓑ **AV CABLE** (not supplied)

---

**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.

<br>

**Other Connections**

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

*DVD/VCR DECK*        ANT or CATV        *TV*

OUT  IN1   **IN FROM ANT.**

*Cable Box*

**VHF/UHF OUT TO TV**        IN   OUT        **VHF/UHF**        R  AUDIO  L  VIDEO        IN  OUT

## ■ Connect With Two Cable Boxes

*DVD/VCR DECK*

ANT or CATV

*Cable Box*        IN  OUT        OUT  IN1   **IN FROM ANT.**

**VHF/UHF OUT TO TV**

*2-Way Splitter*        OUT1  OUT2        *Cable Box*  IN  OUT        *A/B Switch*  IN 1  IN 2        *TV*  IN  OUT  R AUDIO  L  VIDEO  **VHF/UHF**
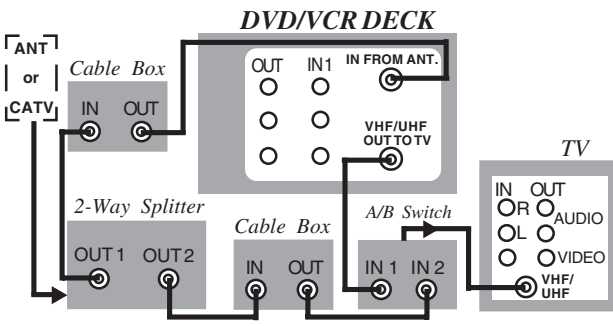
**You Can**
• view any (including scrambled) channel.
• use Remote Control to select channels without using Multi-brand control feature.

**You Cannot**
• record scrambled channels.

**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.

**Initial Setup (Connection)**

**Connections For DVD Only**

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

②If your TV has COMPONENT VIDEO INPUT, 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.**

③When in DVD mode, set your TV to either COMPONENT VIDEO IN or S-VIDEO IN.

**Notes** • **You can watch DVDs through the S-VIDEO or COMPONENT VIDEO, VHF/UHF OUT TO TV, and VIDEO OUT connections to your TV. The VCR and TUNER pictures are available only from the VIDEO OUT and VHF/UHF OUT TO TV connections to your TV.**
• PROG functions on the remote are not available when using S-VIDEO OUT and COMPONENT Video Output. Please set TV to either RF INPUT or VIDEO INPUT, and then press PROG.

*DVD/VCR DECK*        **From DECK's A/V OUTPUT**

**DVD OUTPUT**        **COMPONENT VIDEO OUT**   **AUDIO OUT2**        *TV*

**Y**        **L**        Y  L  IN
**P B**        **R**        PB  R  AUDIO
**S-VIDEO OUT**   **SELECT**   **P R**        PR  VIDEO  S-VIDEO IN        IN  AUDIO  VIDEO

**or**
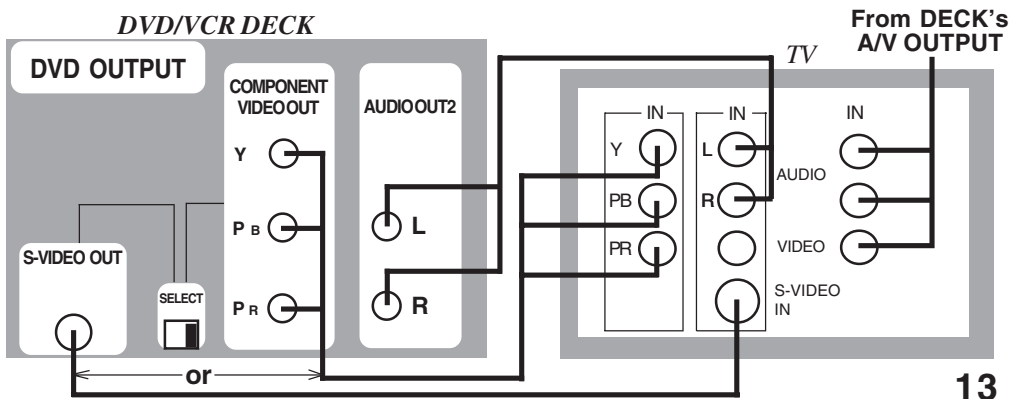
**13**

# Connections (continued)

### ✔ 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

**DVD/VCR DECK**          *Speaker*          *Amplifier*          *Speaker*

AUDIO OUT2

○ L

○ R

AUDIO IN
R  L
○ ○
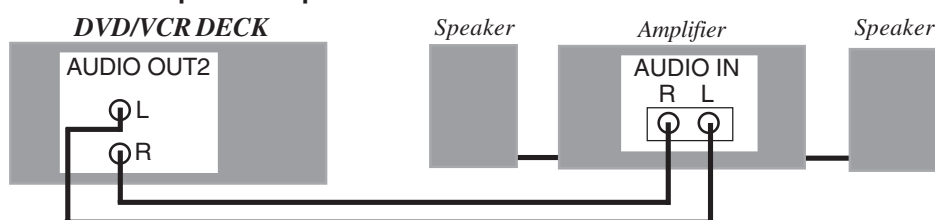
### Enjoying digital audio output from the digital audio output connector

**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) |
| MP3 | MP3 | Linear PCM (It depends on the MP3 file) |

*1 The type of audio output from the connector can be selected by the Settings for DVD Operation. (See p. 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.
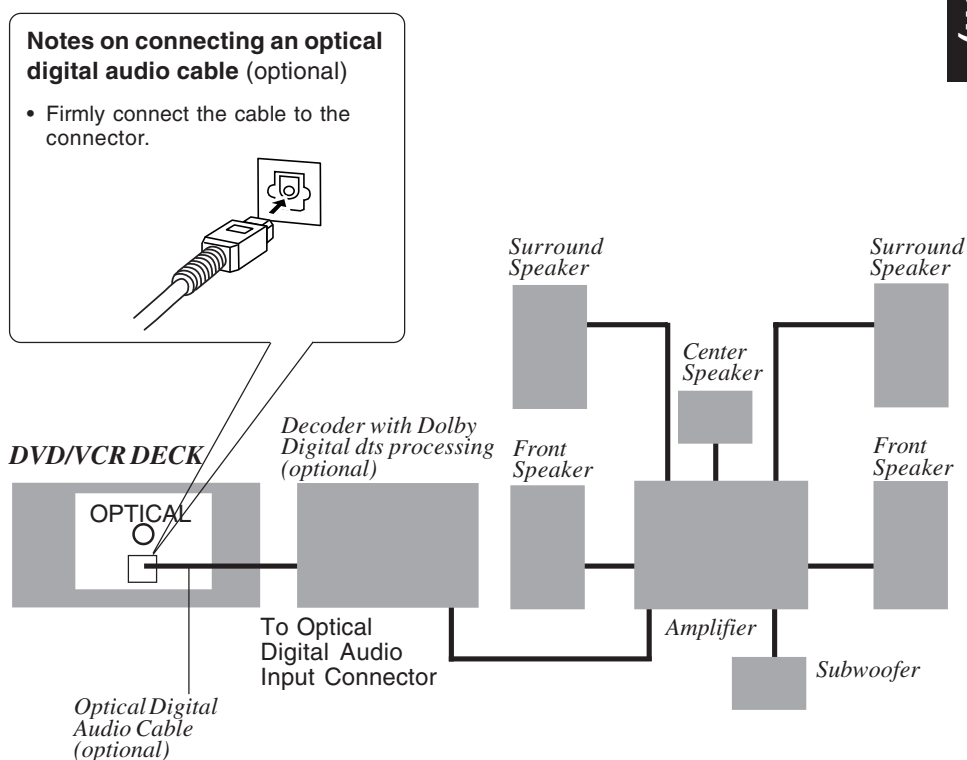
■ **DECK ➜ Dolby Digital Decoder ➜ Amplifier ➜ Speaker**
### or
**DECK ➜ dts** (digital theater systems) **Decoder ➜ Amplifier ➜ Speaker**

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

**Notes on connecting an optical digital audio cable** (optional)

• Firmly connect the cable to the connector.

*Surround Speaker*    *Surround Speaker*

*Center Speaker*

*Front Speaker*    *Front Speaker*

*Decoder with Dolby Digital dts processing (optional)*

**DVD/VCR DECK**

OPTICAL

To Optical Digital Audio Input Connector

*Amplifier*

*Subwoofer*

*Optical Digital Audio Cable (optional)*

**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 usual.**
**Note:**
• Some dts decoders which do not support DVD-dts interface may not work properly with DECK.

**15**

# Initial Setup for Basic Connections (Ready to Play)
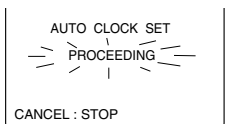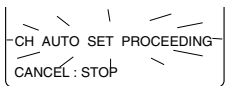
## Before doing Initial Setup

**1** **Turn TV on**.

**2** See connections ⓐ RF Coaxial Cable Connection and ⓑ AV Cable Connection on p. 12.
**<RF Coaxial Cable Connection>**
  Set **TV** to **channel 3.**

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

**3** **[DECK ➤ TV]**
• Go to "Doing Initial Setup (Ready to Play)." (See below.)

**[Cable Box ➤ DECK ➤ TV], [DSS ➤ DECK ➤ TV]**
• Turn on Cable Box and set it to your Public Broadcasting Station (PBS) channel in your time zone.
• If you use a DSS Receiver, it must be turned off.

## Doing Initial Setup (Ready to Play)

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

**2** **Plug DECK Power Cord into AC wall outlet. DECK comes on and auto channel and clock set starts.**
• If screen below does not appear, check DECK - TV connection and, if TV is tuned to channel 3, try switching it to channel 4.
• To change VCR's output channel, please refer to "VCR's Output Channel" on p. 19.
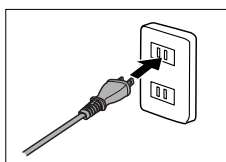
**Plugging the AC Power Plug into an AC outlet**

CH AUTO SET PROCEEDING
CANCEL : STOP

AUTO CLOCK SET
PROCEEDING
CANCEL : STOP

*Continued on next page...*

**16**

**Initial Setup (Connection)**

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

```
9/29/2002 SUN   2:20PM
                  DST:ON
   SETTING : CH 10

   AUTO CLOCK SET

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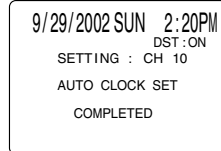
**If "AUTO CLOCK SET IS INCOMPLETE" appears, manually set clock. See below.**

```
AUTO CLOCK SET IS
INCOMPLETE

PLEASE SET CLOCK BY
PRESSING ACTION KEY
```

ACTION

SELECT
▲▼◄►

SET
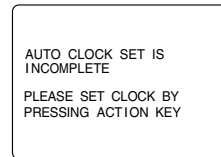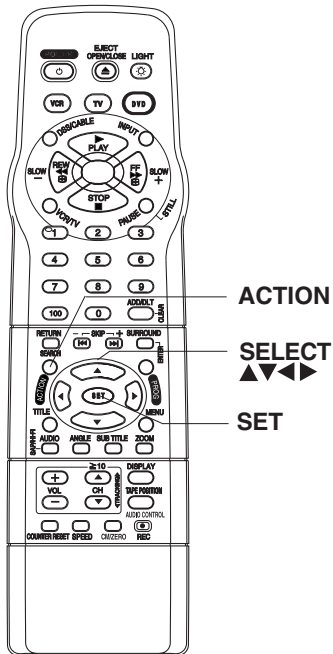
## Manual Clock Set

If Auto Clock Set was incomplete.

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

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

SELECT :▲ ▼
SET    :SET
EXIT   :ACTION
```
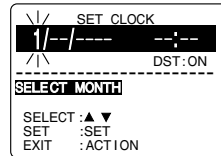
**2** **Press ▲▼ to select the month and SET to set. In the same manner, select and set the date, year, time, and DST (Daylight Saving Time).**
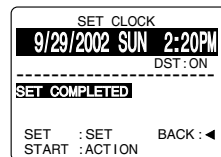
```
        SET CLOCK
9/29/2002 SUN  2:20PM
                 DST:ON
-------------------------
SET COMPLETED

SET   : SET       BACK :◄
START : ACTION
```

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

**17**

**1**

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

   SELECT : ▲▼     SET:SET
   EXIT     : ACTION
```
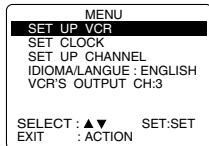
**Press ACTION*** to display MENU.

• PROGRAM functions are not available when using COMPONENT Video Output and S-VIDEO OUT. Please set TV to either RF INPUT or VIDEO INPUT, and then press PROGAM.
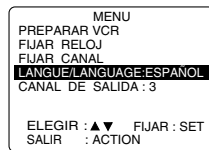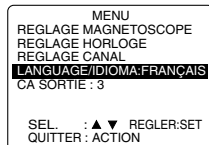
**2**

## ■ Language

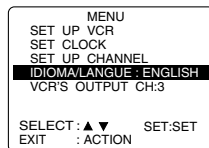1) **Press ▲▼** to select language item.

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

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

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

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

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

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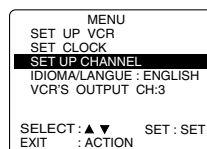
2) **Press ▲▼** to select "ANTENNA," then **press SET** to set your antenna system ("TV" or "CABLE.")

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

   SELECT : ▲▼     SET : SET
   EXIT     : ACTION
```
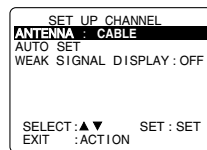
3) **Press ▲▼** to select "AUTO SET," then **press SET**.

• If you use a Cable Box, set it to the PBS channel in your time zone.
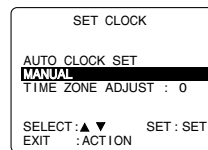
```
   ─CH AUTO SET PROCEEDING─

   CANCEL : STOP
```
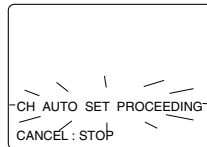
• After Channel Auto Set is finished, Auto Clock Set will be performed.

## ■ Clock

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

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

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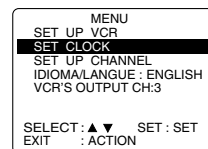
2) **Press ▲▼** to select "MANUAL," and **press SET**. (For Auto Clock Set, select "AUTO CLOCK SET.")

```
        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
   9/30/2002  SUN  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).
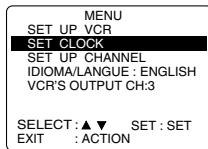
4) **Press ACTION** to <u>start Clock</u> and exit this mode.

**18**

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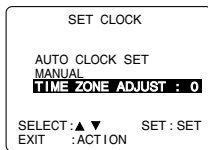
POWER

VCR

NUMBER keys

ACTION

ADD/DLT

SELECT ▲▼◀▶

SET

CH ▲/▼

**Basic Operation**

## ■ Time Zone Adjust

(Only when Auto Clock is set.)

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

```
          MENU
   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 : SET
   EXIT    : ACTION
```

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

3) **Press ACTION** twice.

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

## ■ VCR's Output Channel

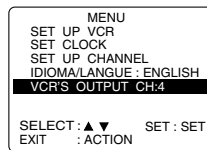1) **Press ▲▼** to select "VCR'S OUTPUT CH.," and **press SET**.

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

   SELECT : ▲ ▼      SET : SET
   EXIT      : ACTION
```
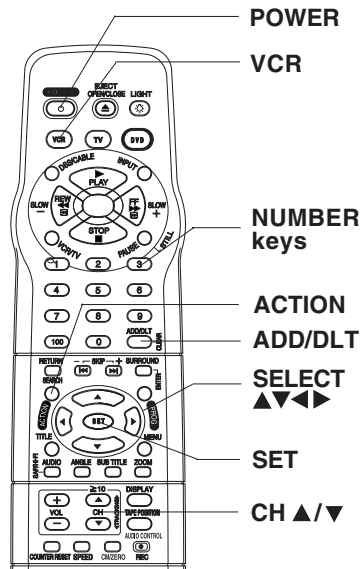
2) **Press SET**.

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

   SELECT : ▲ ▼      SET : SET
   EXIT      : ACTION
```
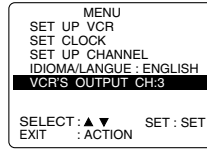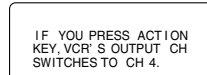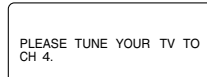
• To Make Corrections, repeat steps 1) ~ 3).

### 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.

**19**

# 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 PLAY** to release.
  After search has begun, each additional press of **FF** or **REW** changes speed as shown below.
  [SLP] : Approx. 21X ↔ Approx. 9X
  [LP]  : Approx.  9X ↔ Approx. 7X
  [SP]  : Approx.  7X ↔ Approx. 3X
  If at 21X, 9X, or 7X speed the picture is interrupted, change speed to 9X, 7X, or 3X.

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

■ **Still (Freeze) Picture**
  ➜ **Press PAUSE/STILL**.
  ➜ **Press PLAY** to release.

■ **Frame by Frame Picture**
  ➜ **Press PAUSE/STILL** in Still mode.
  ➜ **Press PLAY** to release.

■ **Slow Motion Picture**
  ➜ **Press FF/SLOW+** (increase speed) or **REW/SLOW-** (decrease speed) in Still mode.
  ➜ **Press PLAY** to release.

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

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

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

EJECT — DVD

PLAY

REW/SLOW-
VCR/TV — FF/SLOW+
STOP — PAUSE/STILL

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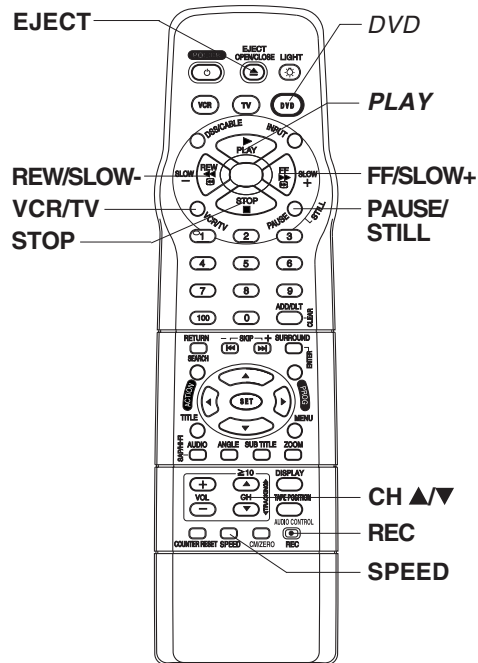
**Notes**
- These features work best in SP or SLP mode.
- The sound will be muted.
- To reduce picture noise, see "Manual Tracking Control" on p. 6.
- After DECK is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.

### Playback using DECK buttons

2 Press PLAY.    1 Insert a tape.

Multi Function Display

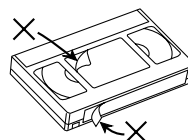■ Press STOP/EJECT to stop and/ or eject a tape.

### 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 channel is over 100, press 100 key then press the remaining 2 digits.

**3** **Press SPEED** to select the record speed (p. 6).
   **SP** = Standard Play      **LP** = Long Play
   **SLP** = Super Long Play
 • Speed appears on-screen and on Multi Function Display.

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

**5** **Press STOP** to stop recording.

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

■ **Record one station, watch another,**
 ➤ **press VCR/TV**
    ("VCR" goes out on Multi Function Display),
 ➤ select channels at TV (recording continues).

■ **Select Channels at DECK** (In STOP or REC. PAUSE mode),
 ➤ **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**.
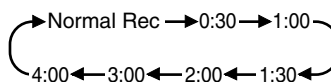
### Notes

• **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.

---

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

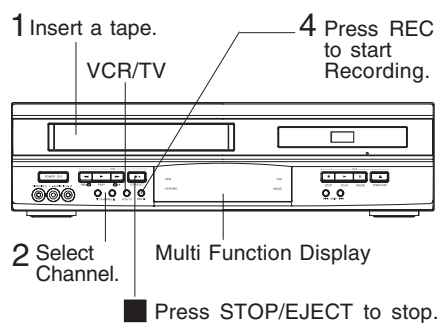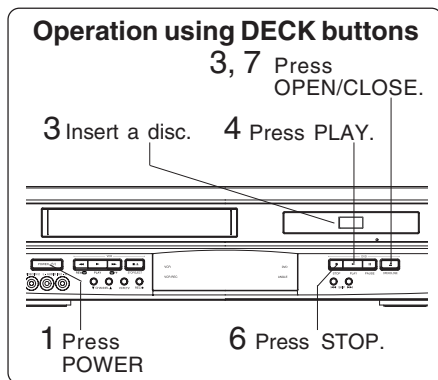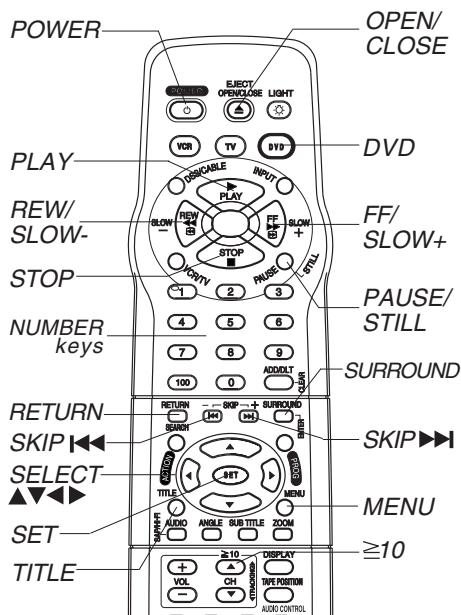**Remove loose or peeling labels from tapes to prevent tape jam.**

## Basic Operation

Normal Rec → 0:30 → 1:00
4:00 ← 3:00 ← 2:00 ← 1:30

### Record using DECK buttons

**1** Insert a tape.

VCR/TV

**4** Press REC to start Recording.

**2** Select Channel.

Multi Function Display

■ Press STOP/EJECT to stop.

**21**

# 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.

POWER —
PLAY —
REW/ —
SLOW-
STOP —
NUMBER
keys
RETURN —
SKIP |◀◀ —
SELECT —
▲▼◀▶
SET —
TITLE —

— OPEN/
CLOSE
— DVD
— FF/
SLOW+
— PAUSE/
STILL
— SURROUND

— SKIP ▶▶|
— MENU
— ≧10

### Operation using DECK buttons

**3, 7** Press
OPEN/CLOSE.

**3** Insert a disc.     **4** Press PLAY.

**1** Press
POWER         **6** Press STOP.

*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.

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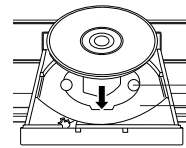
• Hold disc by its edges only (p. 4) with printed side up and use guides to place into tray.
  Use ❶ 3"(8 cm)
  or ❷ 5" (12 cm) disc.

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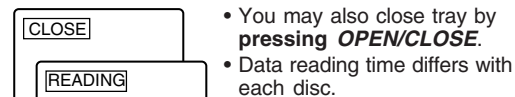
CLOSE

READING

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

**<Example>**

TITLE MENU

| Dogs | Castles |
|------|---------|
| Lovers | Birds |
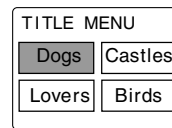
If an interactive DVD\*¹ or
a Video CD with playback
control\*² is used and TITLE
MENU appears, go to step 5.

**5**

TITLE MENU

Dogs | Castles

**Dogs**
of the world

**<Example>**

Press ▲▼◀ ▶ or
**NUMBER keys** (see below) to select title, and
**press SET** to play.
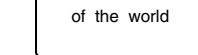
**Using NUMBER keys starts playing automatically.**
<Example>     1 digit number     1 ••• 1
              2 digit number     12 ••• ≧ 10 1 2
              3 digit number     123 •••100 1 2 3
**Press SKIP ▶▶| or |◀◀ to go to next or previous menu screen.**
• SKIP function not available with all discs.
  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.

### ■ Forward/Reverse Scene Search

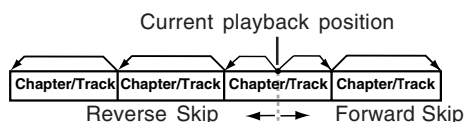**Press *FF/SLOW+*** or ***REW/SLOW-*** during play.

**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 the start of that chapter/track. Each additional press skips back one chapter/track.
• **Pressing *SKIP ▶▶|*** or ***|◀◀*** during play started from menu on Video CDs may recall menu.

Current playback position

| Chapter/Track | Chapter/Track | Chapter/Track | Chapter/Track |
|---|---|---|---|

Reverse Skip ◀——▶ Forward Skip

### ■ 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

SURROUND ON
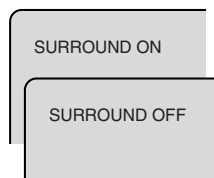
SURROUND OFF

**Press *SURROUND*** to set Surround sound.

**To cancel, press *SURROUND*.**

**Note**

• 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 the menu will be displayed.
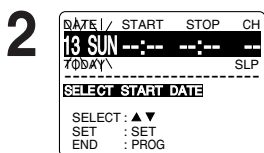Now, go to step 5 (previous page).

**Notes**

• Please read the disc jacket for operation information.
• If a single sided disc is placed in upside down, "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.
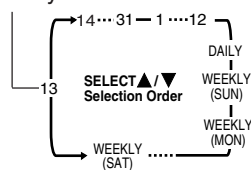
**Basic Operation**

**23**

# Timer Recording

## ☑ 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.

**POWER**

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

**2**

```
DATE /  START   STOP    CH
13 SUN --:-- --:--
TODAY                      SLP
--------------------------------
SELECT START DATE

SELECT : ▲ ▼
SET    : SET
END    : PROG
```

**Example**
Today

```
        ┌→ 14 ··· 31 — 1 ····12
        │                      DAILY
        │  SELECT▲ / ▼   WEEKLY
    13 ─┤  Selection Order  (SUN)
        │                   WEEKLY
        │                   (MON)
        └→ WEEKLY ·····
           (SAT)
```
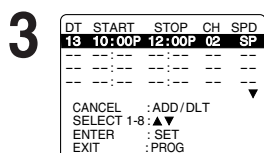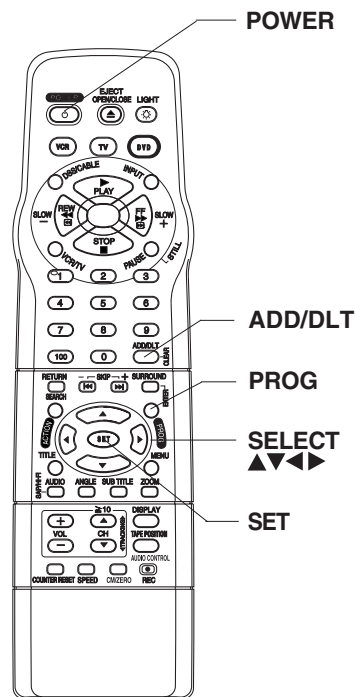
**1) To set record DATE,
press ▲▼** to select:
1~31= one time, or
DAILY= MON~ FRI, or
WEEKLY= same time
each week and
**press SET**.
• See selection order left.

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

**Press PROG**
to end programming.

**ADD/DLT**

**PROG**

**SELECT
▲▼◀▶**

**SET**

**3**

```
DT  START   STOP   CH  SPD
13 10:00P 12:00P 02  SP
-- --:-- --:-- -- --
-- --:-- --:-- -- --
-- --:-- --:-- -- --
                          ▼
 CANCEL    : ADD / DLT
 SELECT 1-8 : ▲▼
 ENTER     : SET
 EXIT      : PROG
```

**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 with the power on or off.
• **"TIMER REC WILL START SOON"** appears on-screen for 2 minutes
  before Timer Recording starts. If DECK is in DVD mode, no message
  appears, but the VCR REC Indicator, the VCR mode indicator and
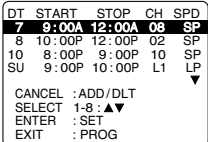  "REC" will flash on Multi function Display.
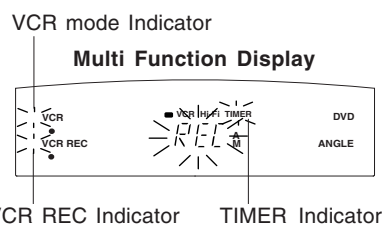
## Review, Replace or Clear Program Contents:
(Recording is not in progress)

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

**2**

```
DT  START   STOP  CH  SPD
7   9:00A  12:00A  08  SP
8  10:00P  12:00P  02  SP
10  8:00P   9:00P  10  SP
SU  9:00P  10:00P  L1  LP
                       ▼
CANCEL  : ADD/DLT
SELECT  1-8 : ▲▼
ENTER   : SET
EXIT    : PROG
```

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

**3** **To Replace program...**

```
DATE / START    STOP   CH
7 SUN 9:00A 12:00A  08
TODAY            SP
- - - - - - - - - - - - - - - - -
SELECT START DATE

SELECT  : ▲▼
SET     : SET      BACK : ◄
END     : PROG
```

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

**or**

**To Clear program...**

```
DT  START   STOP  CH  SPD
--  --:--  --:--  --  --
8  10:00P  12:00P  02  SP
10  8:00P   9:00P  10  SP
SU  9:00P  10:00P  L1  LP
                       ▼
CANCEL  : ADD/DLT
SELECT  1-8 : ▲▼
ENTER   : SET
EXIT    : PROG
```

**Press ADD/DLT.**

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

### To cancel a Timer Recording in progress...

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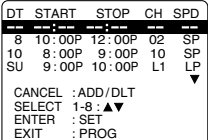(The "TIMER" Indicator goes out on Multi Function Display.)

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

**VCR Operation**

### Notes

• **If you are using a Cable Box, the VCR's channel for Timer Recording must be set to the Cable Box intput channel and Cable Box must be manually set to the desired channel. Cable Box power must be left on.**

• **2 minutes before Timer Recording is performed, "PLEASE PREPARE FOR TIMER REC" appears and Timer Indicator flashes.**
**Be sure a cassette with record tab is loaded and DECK is in Stop mode.**

• If a power interruption occurs while programming the timer, the timer program(s) may be canceled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears on-screen, please re-enter the timer programs.

• If the start time for Timer Recording comes up during recording and playing back, Timer Recording will not be performed.

### Important notes when using DSS Receiver
• When recording programs via DSS Receiver, DSS Receiver must be left on.
• When recording programs via an antenna or cable, DSS Receiver must be turned off.

**25**

# MTS Broadcast/ VHS Hi-Fi Stereo System

## 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    CH 02
                    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    CH 02
                    0:00:00
((STEREO ◄              SP
  SAP
  MONO
```

#### SAP broadcast

Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.
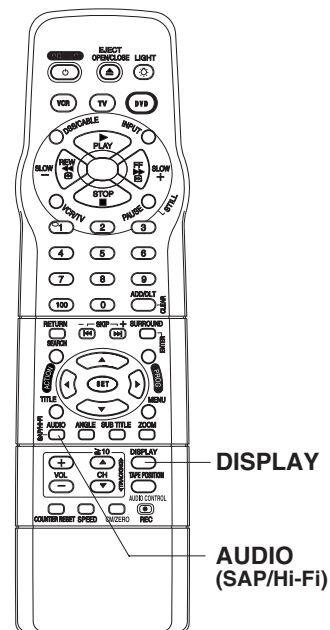
```
STOP     12:00AM    CH 02
                    0:00:00
  STEREO               SP
((SAP    ◄
  MONO
```

#### MONO broadcast

Normal monaural sound broadcast.

```
STOP     12:00AM    CH 02
                    0:00:00
  STEREO               SP
  SAP
  MONO   ◄
```

**DISPLAY**

**AUDIO (SAP/Hi-Fi)**

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

(Display disappears after 5 seconds.)

**2**

```
STEREO
SAP      ◄
 MONO
```
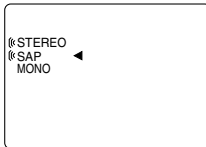
**Press AUDIO (SAP/Hi-Fi)** repeatedly
to select desired mode.

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

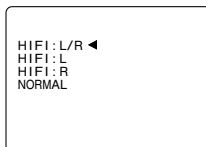**3** **Do a recording.**
See p. 21.

## Audio Mode for Playback

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

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

**3**

```
HIFI:L/R ◄
HIFI:L
HIFI:R
NORMAL
```

• Arrow indicates
selection.

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

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

• Display disappears after 5 seconds.

### Notes

• Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard
stereo tapes will playback in monaural sound.
• To listen to Hi-Fi stereo playback**,** the DECK AUDIO (L/R) jacks must be connected to
a stereo TV or an external stereo amplifier and speakers. (See pp. 12, 14, 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.

**VCR
Operation**

**27**

# 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.)

| Unit / Mode | 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**     ***Bold Italic: VCR and DVD Functions***
*Italic: DVD Function* Normal: TV, Cable Box or DSS Receiver

**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.

POWER
**VCR**
DSS/ CABLE
TV
*DVD*
NUMBER keys
ENTER
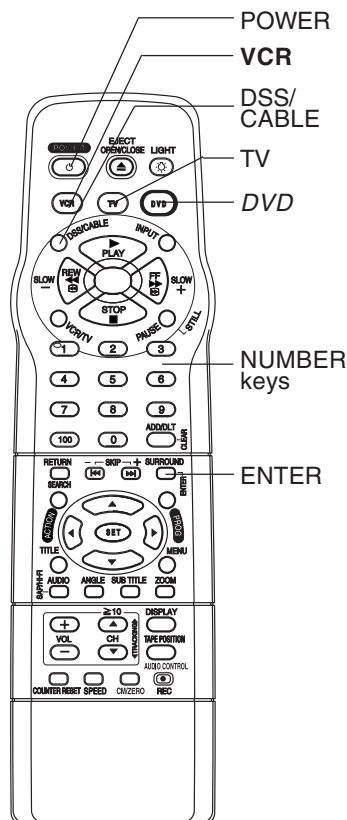
## TV Brand Code Numbers

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

## Cable Box Brand Code Numbers

| | |
|---|---|
| Archer ........................ 44, 06, 01, 120, 05, 63, 126 | Oak Sigma ..................................... 46, 11, 129, 101 |
| Cableview ............... 29, 09, 01, 63, 120, 44, 42, 30 52, 04, 124, 126 | Panasonic .................................. 17, 16, 08, 87, 109 |
| Citizen .................. 44, 52, 30, 63, 42, 04, 124, 126 | Philips ................... 23, 24, 20, 13, 07, 50, 128, 129 |
| Curtis ..................................... 08, 09, 25, 61, 53, 87 | Pioneer ..................................... 06, 05, 12 |
| Century ..................................... 44, 51, 75, 59, 126 | Pulsar .................... 04, 42, 63, 44, 30, 52, 124, 126 |
| Cabletenna ................. 29, 09, 01, 63, 120, 44, 126 | Quest ..................................... 06, 05, 12 |
| Cable Cinema ............. 29, 09, 01, 63, 120, 44, 126 | Radio Shack ............................. 44, 51, 75, 59, 126 |
| Diamond ..................... 29, 09, 01, 63, 120, 44, 126 | RCA ...................................... 17, 16, 08, 87, 109 |
| Eagle ....................... 62, 40, 22, 13, 58, 20, 26, 107 | Realistic .................................. 44, 51, 75, 59, 126 |
| Eastern ................................................ 28, 29, 130 | Recoton ................................... 44, 51, 75, 59, 126 |
| Explorer .................................. 08, 09, 25, 61, 53, 87 | Regal ................. 41, 14, 15, 28, 102, 104, 103, 130 |
| Gemini .................................................. 30, 04, 124 | Regency ................................................ 28, 29, 130 |
| General Electric ...................................... 01, 57, 120 | Rembrandt ....... 44, 42, 63, 29, 01, 32, 39, 120, 126 |
| General Instruments . 01, 84, 83, 34, 03, 02, 04, 55 65, 66, 67, 68, 120, 106, 121, 122, 115, 117, 118, 124 | Samsung ..................................... 42, 06, 32, 05, 40 |
| Gerrard ............................................ 44, 51, 75, 59 | Scientific Atlanta .................. 08, 09, 25, 61, 53, 87 |
| GC Electronics .............. 44, 42, 63, 29, 30, 52, 04 124, 126 | Sheritech .............................................................. 27 |
| Hamlin .............. 41, 14, 15, 28, 102, 104, 103, 130 | Signal ...................................................... 26, 112 |
| Hitachi ................................................................. 31 | SL Marx ............ 42, 06, 32, 40, 43, 44, 52, 63, 126 |
| Jerrold .......... 01, 84, 83, 34, 03, 02, 04, 55, 65, 66 67, 68, 120, 106, 121, 122, 115, 117, 118, 124 | Sprucer ..................................... 17, 16, 08, 87, 109 |
| Jasco .................................................. 30, 04, 124 | Standard Components .............. 32, 39, 42, 44, 126 |
| Macom ................................................................. 31 | Stargate ............. 04, 42, 32, 40, 63, 44, 30, 52, 06 124, 126 |
| Magnavox .................................................. 26, 112 | Sylvania ...................................................... 19, 18 |
| Matsushita ............................... 17, 16, 08, 87, 109 | Teknika ...................................................... 74, 35 |
| Movietime ..................... 32, 39, 42, 44, 126, 38, 40 | Telecaption ................................................. 77, 127 |
| Maestro ......................................................... 74, 35 | Teleview ................................ 40, 19, 38, 32, 42, 06 |
| NEC .................................................. 40, 19, 38, 32 | Texscan ...................................................... 19, 18 |
| NSC .................................................. 40, 19, 38, 32 | Tocom .................................. 34, 33, 01, 42, 66, 120 |
| Novavision ............................. 08, 09, 25, 61, 53, 87 | Toshiba ............................................................. 36 |
| Next Level .......... 01, 84, 83, 34, 03, 02, 04, 55, 65 66, 67, 68, 120, 106, 121, 122 | Unika ......................... 44, 42, 63, 29, 01, 126, 120 |
| Oak ................................................ 46, 11, 129, 101 | 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 | Optimus .............................................. 94, 95 |
| Hitachi/ Hughes ..................................... 91, 99 | Panasonic ................................................. 96 |
| Primestar .................................................. 92 | ProScan .................................................... 97 |
| Drake ......................................................... 93 | RCA ........................................................... 97 |
| Magnavox ............................................ 94, 95 | SONY ................................................ 98, 105 |
| Uniden .................................................. 94, 95 | |

### 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.

**VCR Operation**

**29**

# Tape Operation

## Search System

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

### Index Search

**1**

```
      INDEX  SEARCH

ENTER  INDEX NUMBER :1
USING  1– 9 KEYS

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

**Press SEARCH\*** to display SEARCH in Stop or Play mode, and then **press NUMBER keys** to select recording number.
• To calculate number, see below.
**Press FF/SLOW+** or **REW/SLOW-** on the remote to start search.

**2**

```
      INDEX  SEARCH




FORWARD SEARCH : FF
REVERSE SEARCH : REW
```

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

#### ■ To Calculate Index Number
**Example 1:**
To go to rec. 2 from rec. 4, enter 3 and press REW.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
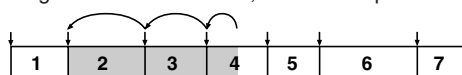
**Example 2:**
To go to rec. 6 from rec. 2, enter 4 and press FF.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
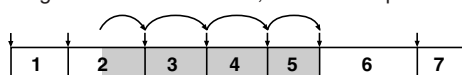
NOTE: ↓ indicates start points of each recording.

**Note**
• If Index Search is started very close to an index mark, that index mark may not be counted in the search.

### Program End Search

Locates end point of recording for continuity.

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

**2**

```
    PROGRAM END SEARCH



SEARCH START : FF


EXIT    :SEARCH
```

**Press FF/SLOW+** on the remote to start PROGRAM END SEARCH.
• To cancel, **press PLAY** or **STOP**.

Examples of **Program End Search**.

**Fig. 1**

| Program 1 | INDEX | Program 2 or BLANK |

the current tape position
Press SEARCH button
FF
**End Point**

**Fig. 2**

| INDEX | Program 1 | INDEX | BLANK | INDEX | Program 2 | BLANK |

the current tape position
Press SEARCH button
FF
**End Point**

**Fig. 3**

the current tape position
Press SEARCH button

| INDEX | Program 1 | BLANK | Program 2 |

FF
**End Point**

If search exceeds a few seconds in BLANK area.
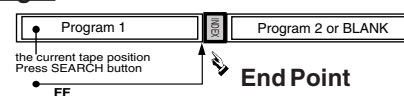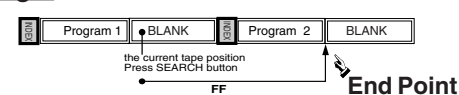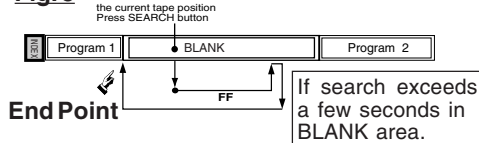
**Upon locating end point,**
➜ search continues 7 sec. past end point,
➜ tape rewinds to 10 sec. before end point,
➜ tape plays to end point and stops.

**Note**
• If Program End Search is started very close to an index mark, that mark may be skipped over.
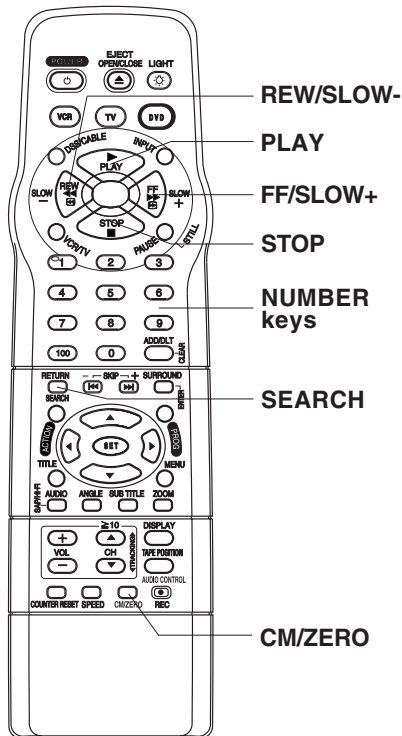
## Auto Operation Functions

### ■ Auto Play

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

### ■ Auto Rewind

Play
Fast Forward ] → Tape end → Rewind

### ■ Play Auto Eject

(Repeat Play must be off)

Play → Tape end → Rewind
→ Tape ejects if there is no record tab

**REW/SLOW-**

**PLAY**

**FF/SLOW+**

**STOP**

**NUMBER keys**

**SEARCH**

**CM/ZERO**

## VCR Operation

## 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.

PLAY
↓
1st Press → 1 min Skip
↓
2nd Press → 2 min Skip
↓
3rd Press → 3 min Skip
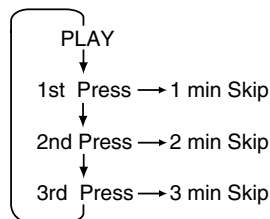
- No indication appears on-screen.

**31**

# Tape Operation (continued)

## Repeat Play

Set to playback a recording over and over.

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

**2**

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

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

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

**3**

```
        SET UP VCR
  REPEAT PLAY       : OFF
  REMOTE WARNING    : ON
  AUTO SHUT-OFF     : OFF

  SELECT : ▲ ▼      SET: SET
  END     : ACTION
```
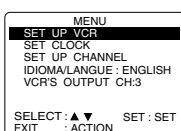
**Press ▲▼**
to select "REPEAT PLAY,"
and **press SET**
to set "ON" or "OFF."
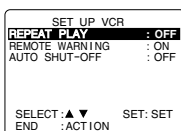
• Play repeats at tape end or if unrecorded portion
over 30 sec. is detected.

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

> **Note**

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

## Zero Search

To quickly return to a specified tape location.

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

**2**

```
  PLAY    12:00AM
                  0:00:00
                       SP
```

**Press COUNTER RESET**
at desired position to reset
to "0:00:00".
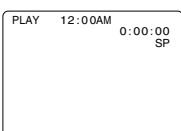
**3** Continue to record, playback etc.

**4** **Press STOP.**

**5**

```
  REW    12:30AM   CH 02
                  0:30:30
                       SP
```
↓
```
  STOP   12:31AM   CH 02
                  0:00:00
                       SP
```

**Press CM/ZERO** in Stop
mode to start Zero Search.
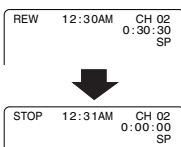
• DECK will go into FF or REW mode and stop
at the last point the Counter was set to 0:00:00.

STOP

ACTION

SELECT
▲▼◄►

SET

DISPLAY

CM/ZERO

COUNTER
RESET

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

PV-D4732S P26-35 (2nd) [LSQT0618B].p65     32                                    2002/05/23, 18:13
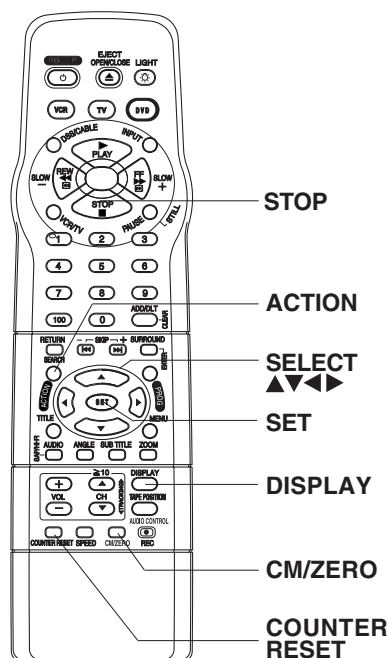
# Special VCR Features

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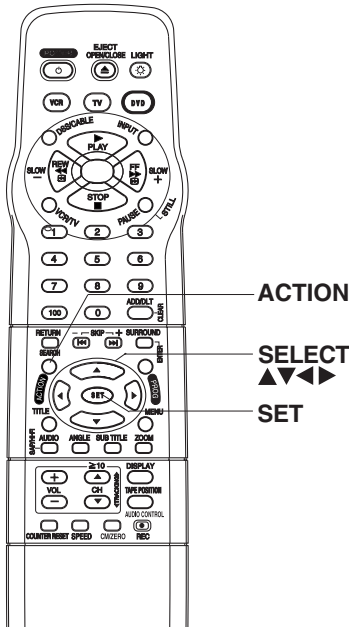
## VCR Lock Feature

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

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

VCR LOCK ACTIVATED
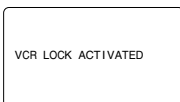
**To turn off,** repeat above.

VCR LOCK OFF
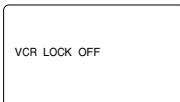
• VCR Lock cancels in 24 hours if clock is set.

REC
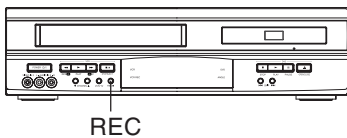
## Weak Signal Display Feature

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

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

**2**
MENU
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:3

SELECT : ▲ ▼    SET : SET
EXIT      : ACTION

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

**3**
SET UP CHANNEL
ANTENNA : CABLE
AUTO SET
WEAK SIGNAL DISPLAY:OFF
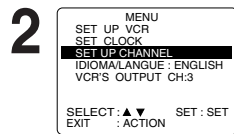
SELECT:▲ ▼    SET: SET
EXIT   :ACTION
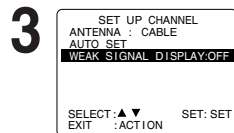
**Press ▲▼** to select "WEAK SIGNAL DISPLAY," and **press SET** to set "ON" or "OFF."

• ON:   Picture is displayed regardless of signal condition, and may not always be clearly visible.

   OFF: Screen turns solid blue when signal is weak or non-existent.

• Selecting ON has no effect on connected equipment with blue back feature.

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

## Auto Shut-Off Feature

The power shuts off at a preset time.

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

**2**
MENU
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE : ENGLISH
VCR'S OUTPUT CH:3

SELECT : ▲ ▼    SET : SET
EXIT      : ACTION

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

**3**
SET UP VCR
REPEAT PLAY        : OFF
REMOTE WARNING    : ON
AUTO SHUT-OFF      : OFF
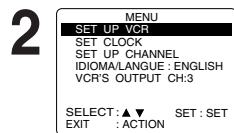
SELECT:▲ ▼    SET: SET
EXIT   :ACTION
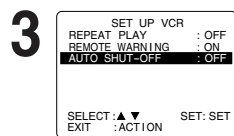
**Press ▲▼** to select "AUTO SHUT-OFF." **Press SET** repeatedly to change shutoff time as shown below.

OFF → 2 Hours → 4 Hours → 6 Hours → OFF
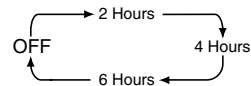
**4** **Press ACTION** twice to return to normal screen.

**Note**

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

ACTION

SELECT ▲▼◄►

SET

**VCR Operation**

## Remote Warning Feature

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

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

**2**
```
           MENU
  SET UP VCR
  SET CLOCK
  SET UP CHANNEL
  IDIOMA/LANGUE : ENGLISH
  VCR'S OUTPUT CH:3

  SELECT : ▲ ▼        SET : SET
  EXIT    : ACTION
```
**Press ▲▼**
to select "SET UP VCR,"
and
**press SET**.
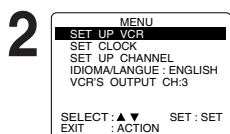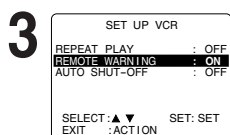
**3**
```
       SET UP VCR

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


  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.

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

INPUT

STOP

PAUSE/
STILL

ACTION

SELECT
▲▼◀▶

SET

TAPE
POSITION

REC
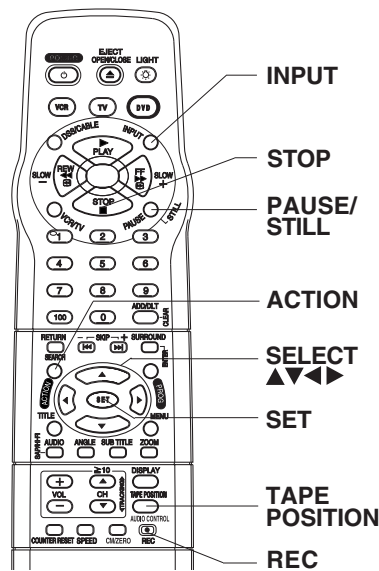
## Tape Position and Tape Status Feature

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

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

DETECTING TAPE POSITION

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

```
                          SP



              R 120 MIN.
         ▼
  BEGIN       END
```
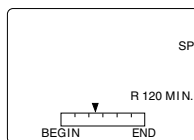
• The present tape position indication and amount of tape remaining (according to tape speed) is displayed.

• Tape remaining time display may not be precise.

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

**Note**

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

# Copying Your Tapes (Dubbing)

## Connection

| VCR/ Camcorder *(Hi-Fi)* | DVD/VCR DECK | TV | Front of DECK |
|---|---|---|---|

VIDEO OUT · AUDIO L R

VIDEO OUT · IN1 · AUDIO1 L R · IN FROM ANT. · VHF/UHF OUT TO TV

VHF/UHF

VIDEO IN 2   L-AUDIO   IN2-R

(Audio/Video In Terminals on the front of DECK are available)
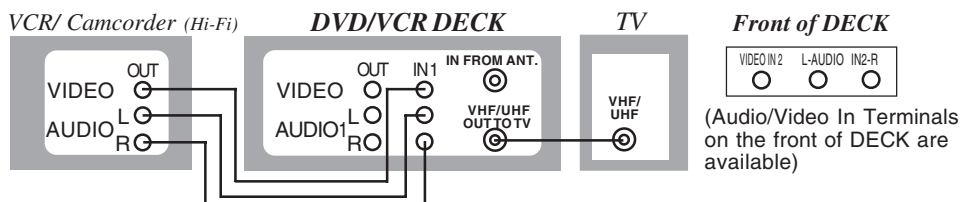
① Connect VIDEO OUT terminal on Playing VCR to VIDEO IN terminal on DECK. To monitor the dubbing, also connect TV as shown.

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

| **Playing (Source) VCR** | **Recording (Editing) DECK** |
|---|---|
| **1** Insert a pre-recorded tape. | Insert a blank tape with record tab. |
| **2** | **Press INPUT** to set DECK Input mode to LINE for Video Input. (See "Selecting the Input Mode" below.) |
| **3** **Press PLAY**, then **PAUSE/STILL** immediately to enter PLAY/PAUSE mode. | **Press REC**, then **PAUSE/STILL** immediately to enter REC/PAUSE mode. |

**The operation of steps 4 and 5 must be done on the playing and recording VCRs at the same time.**

| | |
|---|---|
| **4** **Press PLAY** to start dubbing. Playing VCR starts playback. | **Press PAUSE/STILL** to start dubbing. DECK starts recording. |
| **5** **Press STOP** to stop dubbing. | **Press STOP** to stop dubbing. |

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

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

■ **Selecting the Input Mode**
Method 1: **Press INPUT** repeatedly.
Channel Number ↔ LINE1 ↔ LINE2
Method 2: **Press CH ▲/▼.**
Display will change as below.

Press ▼  →1↔2↔3← Press ▲
LINE2↔LINE1↔125 or 69
(CABLE) (TV)
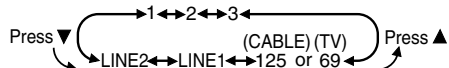
• "L1" or "L2" lights up on Multi Function Display (about 4 seconds) when LINE1 or LINE2 is selected.
• LINE1: For rear audio/video connection.
  LINE2: For front audio/video connection.

**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.**

**VCR Operation**

**35**

# Disc Operation

## Subtitle Language (DVD only)

You can select a different subtitle language (if offered) than the one set at the Settings for DVD Operation.
(See p. 45.)

**1**

SUBTITLE: 1 ENG ON

I love you

SELECT : ▲▼ ◄ ►          SET : SET

**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**

SUBTITLE: 8 ESP ON

Te amo

SELECT : ▲▼ ◄ ►          SET : SET

**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**

AUDIO: 1 ENG
Dolby Digital 3/2.1ch

Hello

SELECT : ▲▼          SET : SET

**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**

AUDIO: 8 ESP
Dolby Digital 3/2.1ch

Hola

SELECT : ▲▼          SET : SET

**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 AUDIO 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.
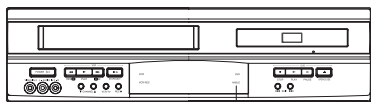
ANGLE Indicator

**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.
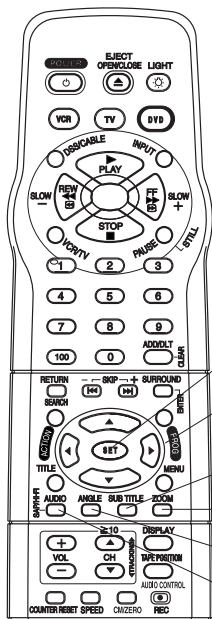
SET
SELECT ▲▼◄►
SUB TITLE
ZOOM
ANGLE
AUDIO

**Notes**
• The subtitle cannot be enlarged nor can it's position be changed.
• The picture zoom feature does not work with a Video CD.
• During picture zoom, "ZOOM1" or "ZOOM2" is displayed on-screen.
• Zooming, on some discs, may result in poor picture quality, or may not operate at all.

## 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.
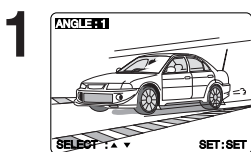
**1** Press *ANGLE* in Play mode to display the angle selection on-screen.
• Display disappears after 5 seconds.
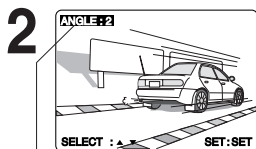
**2** Press ▲▼ to select the desired angle.

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.
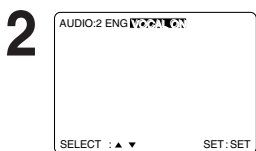
**2** Press ▲▼ (or ◄►) to select as shown below, and press ► (or ◄) to set. (DVD only)

• 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.

X 1.0 (ORIGINAL)  X 1.5 (ZOOM 1)  X 2.0 (ZOOM 2)
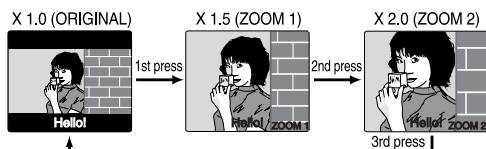
■ Use the ▲, ▼, ◄ and ► buttons to move the position up, down, left and right.

**DVD Operation**

**37**

# Disc Operation (continued)

## Title Menu (DVD only)

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

**1**

TITLE MENU

| | |
|---|---|
| Dogs | Castles |
| Lovers | Birds |

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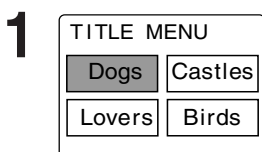
**Press *TITLE***
in Play mode
to display the title screen.

**2**

TITLE MENU

| | |
|---|---|
| Dogs | Castles |
| Lovers | Birds |

Birds
of the world

<Example>
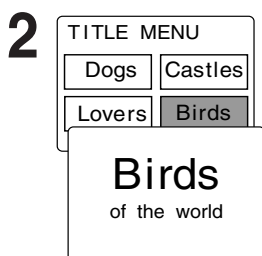
**Press ▲▼◄ ►** or
***NUMBER keys***
to select a title, and
**press *SET*** or ***PLAY***
to start playing.

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

## DVD Menu (DVD only)

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

**1**

DVD MENU

| |
|---|
| 1 . SUBTITLE |
| 2 . AUDIO |
| 3 . ANGLE |

<Example>
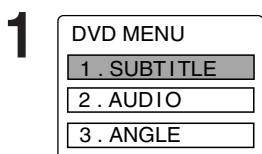
**Press *MENU***
in Play mode to display
DVD MENU.

**2**

DVD MENU

| |
|---|
| 1 . SUBTITLE |
| 2 . AUDIO |
| 3 . ANGLE |

<Example>
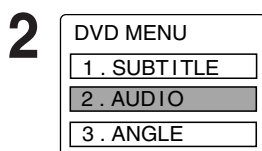
**Press ▲▼◄ ►** or
***NUMBER keys***
to select an item, and
**press *SET*** or ***PLAY***
to perform.
• "Pressing *SET* or *PLAY*" is not necessary when using *NUMBER keys.*
**Repeat step 2 if there is
more than one menu**.
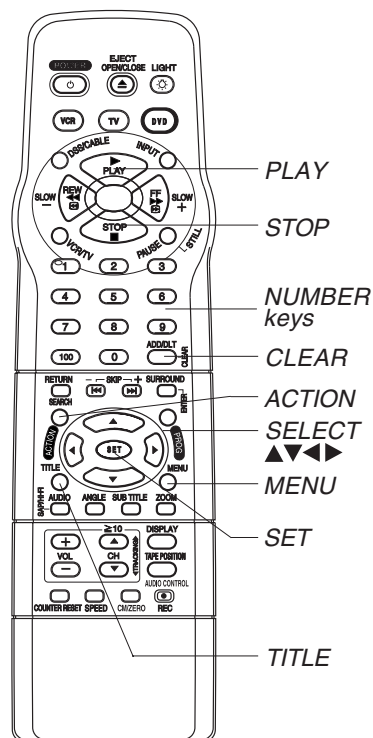
PLAY

STOP

NUMBER
keys

CLEAR

ACTION

SELECT
▲▼◄►

MENU

SET

TITLE

## Program Play (Video CD/CD)

You can program specific tracks and order of play.

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

**2**
```
        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
```
**Press ▲▼**
to select
"PLAY MODE," and
**press *SET***
to display.
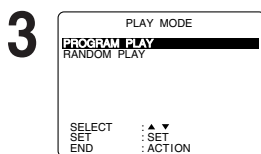
**3**
```
         PLAY MODE
PROGRAM PLAY
RANDOM PLAY

SELECT      : ▲ ▼
SET         : SET
END         : ACTION
```
**Press ▲▼**
to select
"PROGRAM PLAY,"
and
**press *SET*** to display.
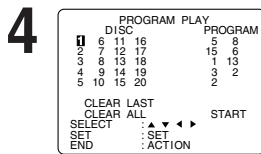
**4**
```
        PROGRAM PLAY
      DISC           PROGRAM
1   6  11  16        5   8
2   7  12  17        15  6
3   8  13  18        1   13
4   9  14  19        3   2
5   10 15  20        2
    CLEAR LAST
    CLEAR ALL        START
SELECT    : ▲ ▼ ◄ ►
SET       : SET
END       : ACTION
```
**Press ▲▼◄►**
to select a track
number (Track
numbers on disc are
displayed.), and
**press *SET***.

• Repeat step 4 to select another track.
• The selected track is added on the right side.
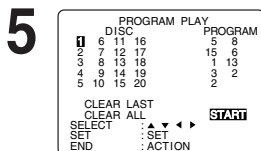
**5**
```
        PROGRAM PLAY
      DISC           PROGRAM
1   6  11  16        5   8
2   7  12  17        15  6
3   8  13  18        1   13
4   9  14  19        3   2
5   10 15  20        2
    CLEAR LAST
    CLEAR ALL        START
SELECT    : ▲ ▼ ◄ ►
SET       : SET
END       : ACTION
```
**Press ▲▼◄►**
to select "START," and
**press *SET*** to start play
of programs in the
sequence selected.

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

**Notes**
• Up to 15 tracks can be programmed.
• "◄" or "►" (depending on disc) indicates additional
  PROGRAM PLAY screen.
  Press ▲▼◄► for next or previous screen.
• **To clear the last program one by one**
  Press ▲▼◄► to move to "CLEAR LAST" and
  press *SET*. (Pressing *CLEAR* on remote control
  also clears last program.)
• **To clear all programs**
  Press ▲▼◄► to move to "CLEAR ALL" and press
  *SET*. (Programs are also cleared when the power
  is turned off or the disc is removed.)

☑ **Ready Checklist**
☐ DECK is in DVD mode, press DVD.
☐ Video CD or CD is inserted.

## Program Repeat Play (Video CD/CD)

**1** Do operation steps **1** through **5**
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
```
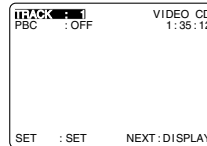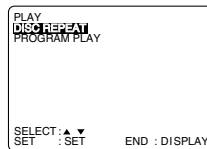
**3** **Press *DISPLAY*** to display
DECK Information screen.

**4** **Press *SET*** to enter Select mode.
"REPEAT OFF" will flash.
(DECK Information Screen)
```
PLAY
REPEAT OFF
PROGRAM PLAY




SET    : SET     END : DISPLAY
```
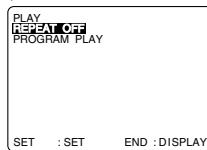
**5** **Press ▲▼** to select "DISC
REPEAT."
(DECK Information Screen)
```
PLAY
DISC REPEAT
PROGRAM PLAY




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***.

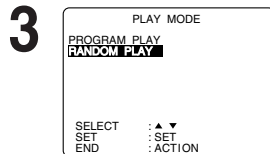**DVD Operation**

**39**

# Disc Operation (continued)

## Random Play (Video CD/CD)

Tracks are played in a random order.

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

**2**
```
        DVD  MAIN  MENU
DISC LANGUAGES
AUDIO OUTPUT
STILL MODE      : F I E L D
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.

**3**
```
         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***.

## Setting the Sound Output Level

Audio recorded on a DVD or Video CD often incorporates
a dynamic range of sound.
This means that, when compared to a music CD, etc.,
the average volume is generally lower and the peaks
may be higher. This unit can be set so that the average
volume is increased automatically.

☑ **Ready Checklist**

☐ DECK is in DVD mode, press DVD.

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

*STOP*

*CLEAR*

*ACTION*

*SELECT*
▲▼◄►

*SET*

*AUDIO
CONTROL*

**Press *AUDIO CONTROL*** repeatedly to change "ON" ↔ "OFF."

• "ON" or "OFF" lights up on Multi Function Display (about 3 seconds) when
  press AUDIO CONTROL.

|  | **Audio Control "OFF"** | **Audio Control "ON"** |
|---|---|---|
| **DVD /Video CD** | Volume level is low. | Volume level is increased automatically when played back. |
| **Music CD** | ——————— | ——————— |

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

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

# 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).

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

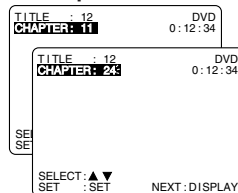• Each **press** of *DISPLAY* changes the on-screen display as follows. (refer to p. 42.)

Selected disc information
↓
Selected DECK information
↓
Normal Screen
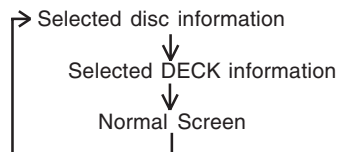
**Note**

*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>**

```
T I T L E    : 12           DVD
CHAPTER : 11            0 : 12 : 34
    T I T L E   : 12          DVD
    CHAPTER : 24:         0 : 12 : 34

SE
SE
SELECT : ▲ ▼
SET    : SET        NEXT : DISPLAY
```

**<Example of Video CD>**

```
TRACK   : 12         VIDEO CD
PBC     : OFF        0 : 12 : 34
    TRACK   : 17      VIDEO CD
    PBC     : OFF      0 : 12 : 34

SE
SET    : SET        NEXT : DISPLAY
```

**✓ Ready Checklist**
☐ DECK is in DVD mode, press DVD.

*NUMBER keys*

*CLEAR*

*SELECT ▲▼◄►*

*SET*

*DISPLAY*

• 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 the 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.
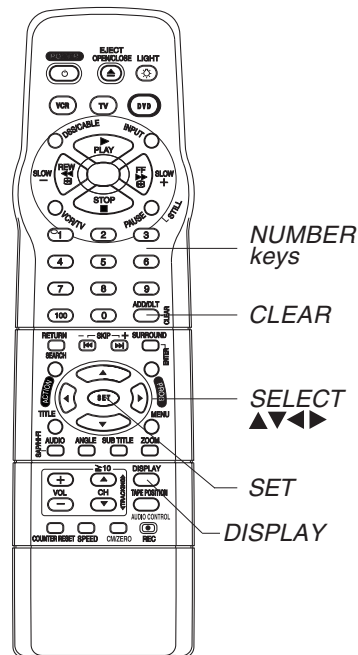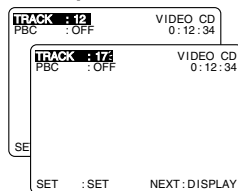
**Notes**

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

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

**DVD Operation**

**41**

## Detailed Descriptions of each On-Screen Display

### ■ Disc information screen (for DVD)

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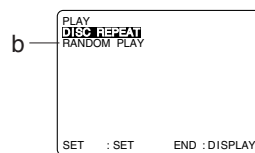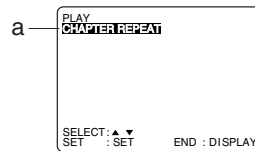- Change the No. by **pressing ▲▼**\* or *NUMBER keys*, and **press** *SET*.

**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.

```
1 ─ TITLE  :  1        DVD    ─ 3
2 ─ CHAPTER : 12      1 : 12 : 55 ─ 4



    SELECT : ▲ ▼
    SET   : SET    NEXT : DISPLAY
```
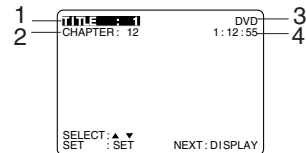
### ■ Disc information screen (for Video CD/ CD)

**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**

```
A ─ TRACK  :  1      VIDEO CD ─ C
B ─ PBC   : OFF       1 : 35 : 12 ─ D



    SET   : SET    NEXT : DISPLAY
```
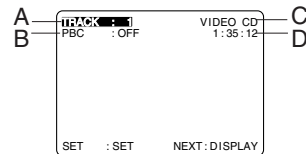
**Note**

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

### ■ DECK information screen (for DECK)
- 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 |

```
    PLAY
a ─ CHAPTER REPEAT




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

```
    PLAY
b ─ DISC REPEAT
    RANDOM PLAY



    SET   : SET    END : DISPLAY
```

### For your reference

**• CHAPTER/TITLE REPEAT PLAY (DVD)**

CURRENT PLAYBACK POSITION

| TITLE | | |
|---|---|---|
| chapter | chapter | chapter |

CHAPTER REPEAT
TITLE REPEAT
NORMAL PLAY

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

CURRENT PLAYBACK POSITION

| track | track | track |
|---|---|---|

TRACK REPEAT
DISK REPEAT
NORMAL PLAY
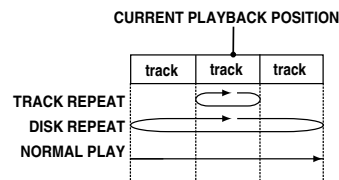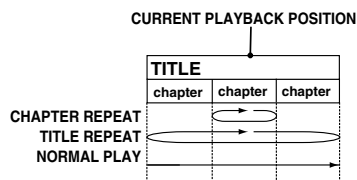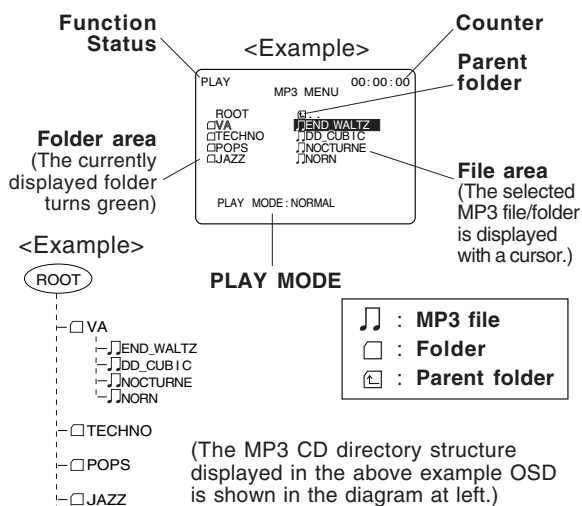
**Note**

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

# MP3 Playback Operation

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

## MP3 Playback

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

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

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

**3** MP3 MENU is displayed and playback is started automatically. (The MP3 CD directory is displayed.)

**Function Status**

**Counter**

<Example>

**Parent folder**

```
PLAY            MP3 MENU    00:00:00
   ROOT                    
   ▢VA             ♫END_WALTZ
   ▢TECHNO         ♫DD_CUBIC
   ▢POPS           ♫NOCTURNE
   ▢JAZZ           ♫NORN
                   
   PLAY MODE: NORMAL
```

**Folder area**
(The currently displayed folder turns green)

**File area**
(The selected MP3 file/folder is displayed with a cursor.)

<Example>

( ROOT )

```
├─▢VA
│    ├─♫END_WALTZ
│    ├─♫DD_CUBIC
│    ├─♫NOCTURNE
│    └─♫NORN
├─▢TECHNO
├─▢POPS
└─▢JAZZ
```

**PLAY MODE**

| ♫ | : | **MP3 file** |
|---|---|---|
| ▢ | : | **Folder** |
| ⬑ | : | **Parent folder** |

(The MP3 CD directory structure displayed in the above example OSD is shown in the diagram at left.)

■ **Forward/Reverse Search**
Press *FF/SLOW+* or *REW/SLOW-* during play.
Press *PLAY* to release.
•Search speed, slow at first, increases with each additional press of the button up to 4 levels.

■ **Forward/Reverse Track Skip**
Press *SKIP ▶▶|* or *|◀◀ SKIP* during play.
Each press skips a track.
•If pressed within first 3 seconds of playback, skips to the previous track. If over 3 seconds, returns to first of that track. (|◀◀ *SKIP* only.)
•Only the *SKIP ▶▶|* or *|◀◀ SKIP* button can be used for track skip selection during playback. Place unit into Stop mode before performing folder/file selection (see above right.)

**4** Press *STOP* to stop playing.

**5** Press *OPEN/CLOSE* to eject the disc.
The MP3 MENU is closed automatically.

■ **MP3 playback** (During STOP mode)
1) **Press ▲▼** to select an MP3 file (♫).
2) **Press *SET* or *PLAY*** to start playback.

■ **Select folder** (During STOP mode)
1) **Press ▲▼** to select a folder (▢).
2) **Press *SET*** to display files/folders contained in the folder.

■ **Select parent folder** (During STOP mode)
1) **Press ▲▼** to select a folder (⬑).
2) **Press *SET*** to make changes to the previous directory display.

**Note**
• Folder area operation cannot be done. Only file area operation is possible.

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

**[PLAY MODE]**

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

**SINGLE REPEAT:**
The selected MP3 file is played back repeatedly.

**FOLDER REPEAT:**
The MP3 files contained in the selected folder are played back repeatedly.
However, folders below the selected folder are not played back.

**DISC REPEAT:**
All MP3 files are played back repeatedly.

**DVD Operation**

**43**

# DVD Lock Feature

*Important:* If a remote control button does not work when pressed, press the DVD button on the remote and try the button again.
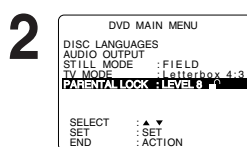
You can prevent playback of DVDs of a specific rating level which may be unsuitable for children.
- Some DVDs are encoded with a rating level. If the disc rating is higher (stricter) than the one you preset, playback will be prohibited.
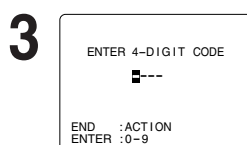
## DVD Lock (DVD only)

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

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

**2**
```
        DVD MAIN MENU
DISC LANGUAGES
AUDIO OUTPUT
STILL MODE      : FIELD
TV MODE         : Letterbox 4:3
PARENTAL LOCK : LEVEL 8

SELECT    : ▲ ▼
SET       : SET
END       : ACTION
```
**Press ▲▼**
to select "PARENTAL LOCK," and
**press SET** to display.

**3**
```
ENTER 4–DIGIT CODE

    ▄---


END    :ACTION
ENTER :0–9
```
1) **Press NUMBER keys** to enter your secret code.
2) Enter same secret code again for confirmation.
3) **Press SET** to display.

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

- Step 2) not necessary when changing rating or secret code.
- Take care that you are not observed entering the secret code.
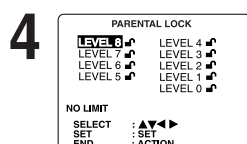
**4**
```
     PARENTAL LOCK
LEVEL 8       LEVEL 4
LEVEL 7       LEVEL 3
LEVEL 6       LEVEL 2
LEVEL 5       LEVEL 1
              LEVEL 0

NO LIMIT
SELECT    : ▲▼◄▶
SET       : SET
END       : ACTION
```
**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.

**5** Press *ACTION* twice
to end setup.

---

✓ **Ready Checklist**
☐ DECK is in DVD mode, press DVD.

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

**<When DVD Lock is activated>**
```
YOUR SELECTION EXCEEDS THE
PLAYER'S RATING LIMIT.
DO YOU WANT TO CHANGE THE
LIMIT?

         YES
         NO

SELECT: ▲ ▼
SET    : SET      END : DISPLAY
```
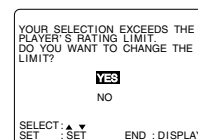
After DVD Lock is set and a blocked DVD is played, this message will appear.
The message may differ depending on the disc.

**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 ~ 2 left.
Enter current secret code.
**Press CLEAR** to clear the code.
Do step 4 to enter new code.
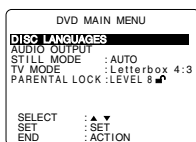
**Note**
- DO NOT forget your secret code.

## 44

# Settings for DVD Operation

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

**2**
```
      DVD MAIN MENU
DISC LANGUAGES
AUDIO OUTPUT
STILL MODE      : AUTO
TV MODE         : Letterbox 4:3
PARENTAL LOCK :LEVEL 8

SELECT     : ▲ ▼
SET        : SET
END        : ACTION
```
Press ▲▼ to select an item, and **press *SET***.

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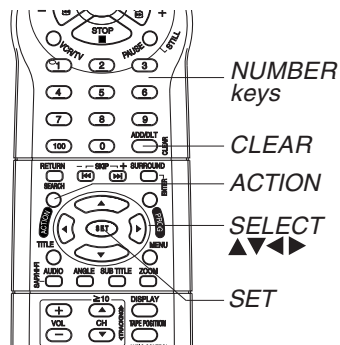If the language not offered is set, the original disc language will be selected.

**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.

**3**
```
      DVD MAIN MENU
DISC LANGUAGES
AUDIO OUTPUT
STILL MODE      : AUTO
TV MODE         : Letterbox 4:3
PARENTAL LOCK :LEVEL 8

SELECT     : ▲ ▼
SET        : SET
END        : ACTION
```
Press ▲▼ to select "DISC LANGUAGES," and **press *SET*** to display screen.
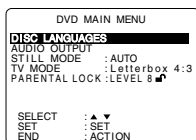
**4**
```
      DISC LANGUAGES
AUDIO      : English
SUBTITLE   : AUTO
MENUS      : English




SELECT     : ▲ ▼
SET        : SET
END        : ACTION
```
Press ▲▼ to select an item, and **press *SET*** repeatedly for desired language. (Please refer right.)
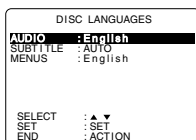
**5** Press *ACTION* to redisplay DVD menu and go to step 2 to setup another item. Or, **press *ACTION*** twice to exit.

---

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

☑ **Ready Checklist**

☐ DECK is in DVD mode, press DVD.

*NUMBER keys*

*CLEAR*

*ACTION*

*SELECT ▲▼◄►*

*SET*

---

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

**"SUBTITLE" selections**
(Factory preset: AUTO)
To select the subtitle language.
**AUTO:** Same language selected for "AUDIO"
• If language set for "AUDIO" is used in playback, subtitles will not appear.
• If another language is used during playback, the subtitles will appear in the language selected at "AUDIO" setup.
**English/Spanish/French/Japanese**
**OTHER ✱✱✱✱:** Other language selection*[1]

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

**To enter OTHER ✱✱✱✱ code number,**
Press *NUMBER keys* (Please refer to language codes on p. 48).
To make corrections, **press ◄** repeatedly to delete language code number, and correct.
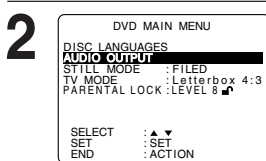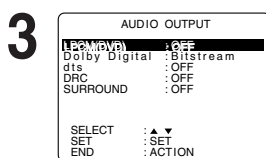*[1] If the selected language is not offered, the original disc language is selected.

**45**

## Audio Output

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

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

**2**

```
        DVD  MAIN  MENU
DISC  LANGUAGES
AUDIO OUTPUT
STILL  MODE        : FILED
TV  MODE          : Letterbox 4:3
PARENTAL LOCK :LEVEL 8 🔒

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

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

**3**

```
         AUDIO  OUTPUT
LPCM(DVD)          : OFF
Dolby  Digital    : Bitstream
dts               : OFF
DRC               : OFF
SURROUND          : OFF

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

**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*** twice to exit.

☑ **Ready Checklist**
☐ DECK is in DVD mode, press DVD.

| Type of amplifier to be connected | Recommended setting | | |
|---|---|---|---|
| | LPCM (DVD) | Dolby Digital | dts |
| No amplifier is connected | 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__ Press _ACTION_ to display MENU.

__2__

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

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

Press ▲▼ to select "STILL MODE," and __press _SET_ repeatedly__ for mode. (See below.)

__AUTO:__ "FIELD" (Field still) or "FRAME" (Frame still) is automatically selected during the still mode. (Factory preset)

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

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

__3__ Press ACTION to exit this mode.

## TV Mode

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

__1__ Press _ACTION_ to display MENU.

__2__

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

SELECT    : ▲ ▼
SET       : SET
END       : ACTION
```
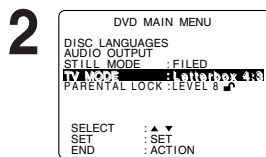
Press ▲▼ to select "TV MODE," and __press _SET___ repeatedly for mode. (See below.)

__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_ to exit this mode.

_ACTION_

_SELECT_
▲▼◄►

_SET_
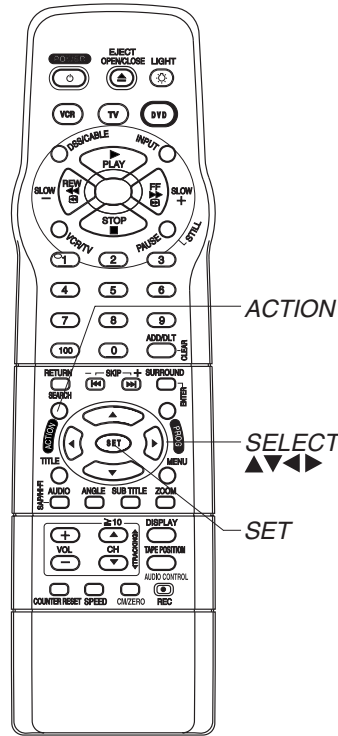
__Example__

• Pan & Scan (Factory preset)
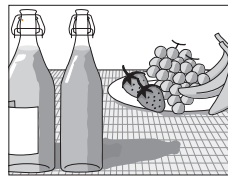
• Letterbox

**DVD Operation**

**47**
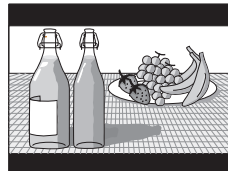
# Language Code List

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

| Code | Language | Code | Language | Code | Language | Code | Language |
|------|----------|------|----------|------|----------|------|----------|
| 6565 | Afar | 7079 | Faroese | 7678 | Lingala | 8375 | Slovak |
| 6566 | Abkhazian | 7082 | French | 7679 | Laothian | 8376 | Slovenian |
| 6570 | Afrikaans | 7089 | Frisian | 7684 | Lithuanian | 8377 | Samoan |
| 6577 | Ameharic | 7165 | Irish | 7686 | Latvian, Lettish | 8378 | Shona |
| 6582 | Arabic | 7168 | Scots Gaelic | 7771 | Malagasy | 8379 | Somali |
| 6583 | Assamese | 7176 | Galician | 7773 | Maori | 8381 | Albanian |
| 6588 | Aymara | 7178 | Guarani | 7775 | Macedonian | 8382 | Serbian |
| 6590 | Azerbaijani | 7185 | Gujarati | 7776 | Malayalam | 8385 | Sundanese |
| 6665 | Bashkir | 7265 | Hausa | 7778 | Mongolian | 8386 | Swedish |
| 6669 | Byelorussian | 7273 | Hindi | 7779 | Moldavian | 8387 | Swahili |
| 6671 | Bulgarian | 7282 | Croatian | 7782 | Marathi | 8465 | Tamil |
| 6672 | Bihari | 7285 | Hungarian | 7783 | Malay | 8469 | Telugu |
| 6678 | Bengali; Bangla | 7289 | Armenian | 7784 | Maltese | 8471 | Tajik |
| 6679 | Tibetan | 7365 | Interlingua | 7789 | Burmese | 8472 | Thai |
| 6682 | Breton | 7378 | Indonesian | 7865 | Nauru | 8473 | Tigrinya |
| 6765 | Catalan | 7383 | Icelandic | 7869 | Nepali | 8475 | Turkmen |
| 6779 | Corsican | 7384 | Italian | 7876 | Dutch | 8476 | Tagalog |
| 6783 | Czech | 7387 | Hebrew | 7879 | Norwegian | 8479 | Tonga |
| 6789 | Welsh | 7465 | Japanese | 7982 | Oriya | 8482 | Turkish |
| 6865 | Danish | 7473 | Yiddish | 8065 | Panjabi | 8484 | Tatar |
| 6869 | German | 7487 | Javanese | 8076 | Polish | 8487 | Twi |
| 6890 | Bhutani | 7565 | Georgian | 8083 | Pashto, Pushto | 8575 | Ukrainian |
| 6976 | Greek | 7575 | Kazakh | 8084 | Portuguese | 8582 | Urdu |
| 6978 | English | 7576 | Greenlandic | 8185 | Quechua | 8590 | Uzbek |
| 6979 | Esperanto | 7577 | Cambodian | 8277 | Rhaeto-Romance | 8673 | Vietnamese |
| 6983 | Spanish | 7578 | Kannada | 8279 | Romanian | 8679 | Volapük |
| 6984 | Estonian | 7579 | Korean | 8285 | Russian | 8779 | Wolof |
| 6985 | Basque | 7583 | Kashmiri | 8365 | Sanskrit | 8872 | Xhosa |
| 7065 | Persian | 7585 | Kurdish | 8368 | Sindhi | 8979 | Yoruba |
| 7073 | Finnish | 7589 | Kirghiz | 8372 | Serbo-Croatian | 9072 | Chinese |
| 7074 | Fiji | 7665 | Latin | 8373 | Singhalese | 9085 | Zulu |

# Warning and Instruction Displays

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

| OSD | Caution | Page |
|---|---|---|
| **PLEASE SET CLOCK BY PRESSING ACTION KEY** | If you attempt to set or review a Timer Recording and the Clock is not set... | 24 |
| **PLEASE PREPARE FOR TIMER REC** | If DECK is not in Stop mode or a cassette with record tab is not inserted 2 minutes before a Timer Recording is about to begin... | 24 25 |
| **CHECK CASSETTE RECORD TAB** | If you press REC on the remote control or DECK, and a cassette is inserted with no record tab... | 6 |
| **NO CASSETTE** | If you press PLAY, FF, REW, or REC on the remote control or DECK without a cassette inserted... | 20 21 |
| **TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC** | If you press STOP or POWER during a Timer Recording... (visible in VCR mode only) | 25 |
| **VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL**<br><br>**END : PLAY** | If head cleaning becomes necessary while playing back a tape... | 6 |
| **VCR LOCK ACTIVATED** | If you press a function button other than STOP/EJECT or POWER while DECK is in VCR Lock mode... | 33 |
| **REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY USE DVD : DVD 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** | 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 |

**For Your Information**

**49**

# 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.<br>• Set POWER button to on.<br>• 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.<br>• Check channel selections.<br>• Make sure your antenna system (CABLE or TV) is correctly set. (Channels [p. 18])<br>• Make sure cassette record tab is intact. (p. 6) |
| Timer recording cannot be performed… | • Confirm that clock is set to current time and date.<br>• Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded.<br>• Set recording start/stop times correctly. (p. 24)<br>• 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.<br>• Set VCR/TV selector to "VCR."<br>• Adjust TRACKING control in either direction. (p. 6)<br>• Try Head Cleaning. (p. 6) |
| During Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control... | • Set TV's Vertical Hold Control to MANUAL, then adjust. |
| DECK cannot be controlled... | • Make sure DECK power is on.<br>• Check Remote batteries.<br>• Make sure VCR LOCK is set to off. (p. 33)<br>• Make sure Remote is in proper mode.(p. 28)<br>• Make sure Timer Recording is not in progress. |

| Remote Control | Correction |
|---|---|
| DECK cannot be remote controlled... | • Make sure DECK power is on.<br>• Make sure Remote is in VCR mode.<br>• Aim Remote Control directly at remote sensor on DECK. (p.9)<br>• Avoid any object blocking signal path.<br>• Check Remote batteries. (p. 4)<br>• Exposing DECK remote sensor to direct fluorescent or outdoor light may cause signal interference. |
| PROG buttons do not respond... | • PROG functions are not available in COMPONENT Video Output and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10)<br>• Check Remote batteries. (p. 4)<br>• Press VCR or DVD button for DVD/VCR mode. (p. 28) |

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.<br>• The disc may be dirty and require cleaning. |
| Play starts but then stops immediately... | • Be sure disc is installed with label side up. |
| Picture is distorted during rapid advance or rapid reverse... | • The picture will be somewhat distorted at times: this is normal. |
| No Forward/Reverse Scene Search play... | • Some discs may have sections which prohibit Forward/Reverse Scene Search. (p. 23) |
| Play does not start even when title is selected... | • Confirm the "DVD LOCK" setting. (p. 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.<br>• "OFF" is selected at the changing subtitle language.  Select "ON" at the "Subtitle Languages" section (p. 36) to display the subtitles. |
| Alternative audio soundtrack (or subtitle) language cannot be selected... | • Alternative language cannot be selected with discs which do not contain more than one language.<br>• 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.<br>• Check connections between DECK, external antenna, and TV.<br>• Set VCR/TV selector to "TV." (p. 21)<br>• 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**

**For Your Information**

**51**

# Limited Warranty

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

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

## Panasonic/Quasar Video Products
### Limited Warranty

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

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

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

**Carry-In, Mail-in or In-Home Service**
For Carry-In, Mail-In or In-Home Service (as applicable) in the United States call toll free contact number listed above or visit Panasonic Web Site: http://www.panasonic.com
For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

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

**Limited Warranty Limits And Exclusions**

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

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

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

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

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

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

# Customer Services Directory

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

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

**Accessory Purchases:**

**1-800-332-5368 (Customer Orders Only)**
**Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032**
**(Monday-Friday 6 am-5 pm; Saturday 6 am-10:30 am, PST)**
**(Visa, MasterCard, Discover Card, American Express, Check)**

*Service in Puerto Rico*

*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*

**For Your Information**

As of February 2002

**53**

## Conexiones/Configuracion Inicial (READY TO PLAY)

**Favor realice la conexion de antena o cable antes de conectar el cordon de AC a la toma de pared.**
Conectando el cordon de AC de la DECK en toma de pared iniciara automaticamente la busqueda de canales y colocacion de tiempo.

## Conectando

### Para Ant/Cable-DECK-TV

① **Conecte Ant/Cable a la entrada de antena de la DECK (DECK In)**

② **Conecte la salida de la DECK (DECK Out) a la entrada de antena de la TV (TV In) con el cable-accesorio RF incluido.**
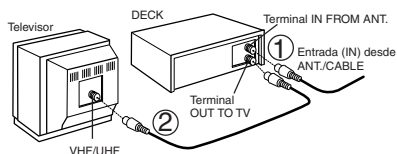
### Para Sistema Digital de Satelite (DSS)/ Convertidor de cable-DECK-TV

① **Conecte la salida del convertidor de cable a la "DECK In" con el RF cable accesorio incluido.**

② **Conecte "DECK Out" a la "TV In" con el cable-accesorio incluido.**
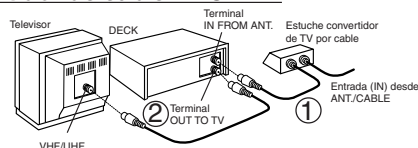
## Realizando configuracion inicial

**1** **Presione el boton DECK del control remoto para dicha modalidad. Encienda la TV y cambie a canal 3.**

**2** **Conecte cordon de AC de la DECK a la toma de pared. La DECK se activara e iniciara busqueda de canales y colocacion de tiempo.**

• Si la pantalla abajo no aparece cheque la conexion DECK-TV y si la TV fue cambiada a el canal 3,trate cambiando a el canal 4.
• Para cambios a el canal de salida de la DECK favor hacer referencia a "VCR's Output Channel" (p. 19).

**Conectando cordon de AC a la toma de pared.**

```
CH AUTO SET PROCEEDING
CANCEL : STOP
```

```
AUTO CLOCK SET
   PROCEEDING
CANCEL : STOP
```

**Al inicio, el idioma de la pantalla está fijado a inglés.
Para cambiar el idioma consulte la página 18.**

Si usa convertidor de cable solo enciendala y seleccione el canal PBS en su horario de uso u horario de zona. Si utiliza receptor DSS este debe estar apagado.

#### PRECAUCION

Si se sobre ajusta "NUT TYPE" el cable coaxial RF podria dañar las terminales de conexion. Ajusta ligeramente utiliza solo los dedos.

**3** **Selecciones se realizaron automaticamente cuando la configuracion termino, esta pantalla aparece.**

```
9/29/2002 SUN  2:20PM
              DST:ON
  SETTING : CH 10

  AUTO  CLOCK  SET

    COMPLETED
```

**Si "AUTO CLOCK SET IS INCOMPLETE" aparece, coloque manualmente el tiempo, vealo abajo.**

```
AUTO CLOCK SET IS
INCOMPLETE

PLEASE SET CLOCK BY
PRESSING ACTION KEY
```

## Realizando configuracion inicial

Si la colocacion de tiempo fue incompleta.

**1** **Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú RELOJ.**

```
     FIJAR RELOJ
1/-- /----    --:--
         VERANO:ACT
ELEGIR MES
ELEGIR :▲ ▼
FIJAR  : SET
SALIR  : ACTION
```

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

```
     FIJAR RELOJ
9/29/2002 DOM  12:00PM
         VERANO:ACT
FIJACION ES COMPLETO
```

**3** **Presione dos veces la tecla 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 PLAY** para liberar. Luego de que la búsqueda se ha iniciado, cada vez que **presione FF/SLOW+** o **REW/SLOW-** se cambia la velocidad como sigue:
[SLP] aprox. 21X ↔ aprox. 9X
[LP] aprox. 9X ↔ aprox. 7X
[SP] aprox. 7X ↔ aprox. 3X
Si la imágen se interrumpe con la velocidad de 21x, 9x o 7x, cambie la velocidad a 9x, 7x o 3x.
■ **Presione PAUSE/STILL** para imagen Fija (Congelada).
**Presione PLAY** para liberar.
■ **Presione PAUSE/STILL** en el modo de imagen fija para imágenes cuadro a cuadro.
**Presione PLAY** para liberar.
■ **Presione FF/SLOW+** o **REW/SLOW-** en el modo de imagen fija para 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.

## Programación fácil para la grabación con temporizador

**1** **Presione PROG**
para visualizar PROGRAM.

**2**
FECHA INICIO PARADA CA
**7 SAB** --:-- --:-- --
HOY                  SLP
ELEGIR FECHA DE INICIO

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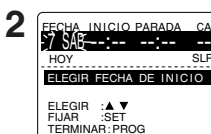
**1) Para ajustar la FECHA de grabación, presione ▲▼** para seleccionar:
1-31 = una vez, o
DIARIO = a la misma hora de lunes a viernes, o
SEMANA = a la misma hora cada semana y **presione SET** para ajustar.

**Orden para elegir**
Ejemplo
Fecha de hoy — 7 ←8—9·······31— 1— 2 ····· 6→ DIARIO
▲/▼ **Orden para elegir**
SEMANAL ······ SEMANAL ······ SEMANAL
(SAB)         (LUN)         (DOM)

**2) Para ajustar los ítems que quedan, presione ▲▼** para seleccionar y **presione SET** 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**
FE  INIC  PARADA  CA VEL
**7  2:00P  3:20P  02 SLP**
-- --:--  --:--  -- --
-- --:--  --:--  -- --
-- --:--  --:--  -- --
CANCELAR: ADD / DLT
ELEGIR 1-8 : ▲ ▼
ENTRAR : SET
SALIR : PROG
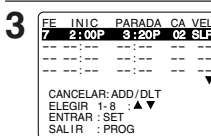
**Presione ▲▼**
para seleccionar un número que no está usando para ingresar mas programas y **presione SET**
para ajustar.
Luego repita el paso 2.
O
**Presione nuevamente PROG** para salir.

■ **Grabación de un toque** (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.
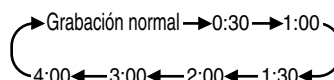
→Grabación normal →0:30→1:00�
4:00←3:00←2:00←1:30

**55**

## 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***)

POWER — OPEN/CLOSE
PLAY — DVD
REW/SLOW- — FF/SLOW+
STOP — PAUSE/STILL
NUMBER keys
SKIP I◄◄ — SKIP ►►I
SELECT ▲▼◄►
SET
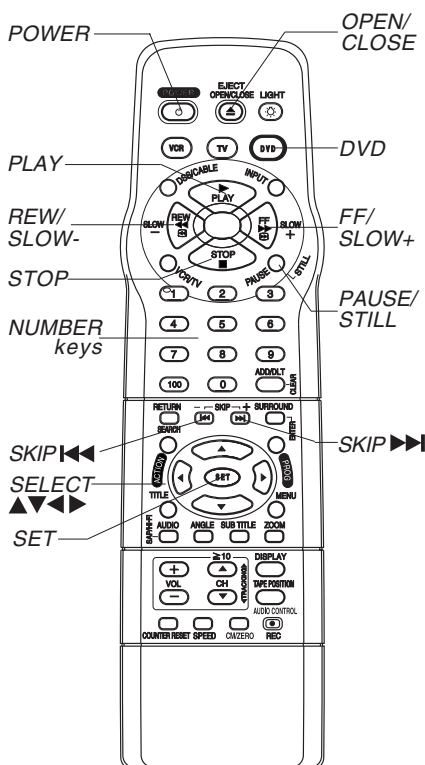
## Funcionnamiento del DVD utilizando visualizaciones en pantalla

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 del DECK
> ↓
> Pantalla normal
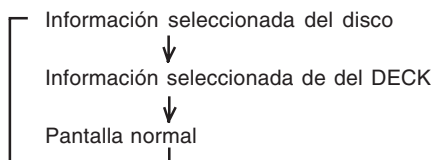
**2** Presione ▲▼ (o ◄ ►) para seleccionar el ítem deseado. Presione *SET* para ajustar.

**3** Presione ▲▼ para seleccionar el ajuste deseado. Presione *SET* para ajustar.

**Para volver a la pantalla normal, Presione** repetidamente *CLEAR* o *DISPLAY*.
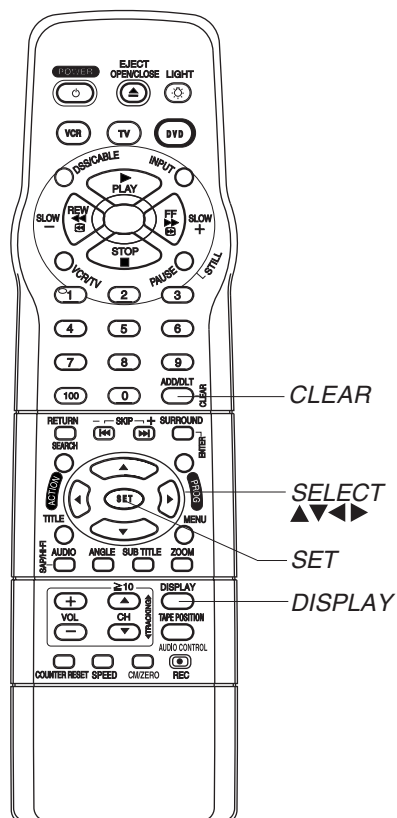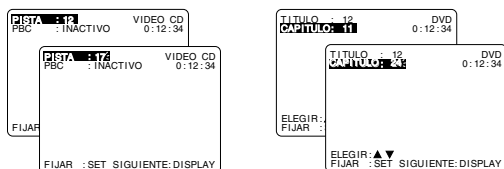
```
PISTA  : 12          VIDEO CD
PBC    : INACTIVO    0 : 12 : 34




FIJAR
```

```
PISTA  : 12          VIDEO CD
PBC    : INACTIVO    0 : 12 : 34




FIJAR : SET  SIGUIENTE : DISPLAY
```

```
TITULO   : 12        DVD
CAPITULO : 11        0 : 12 : 34




ELEGIR :
FIJAR  :
```

```
TITULO   : 12        DVD
CAPITULO : 11        0 : 12 : 34




ELEGIR : ▲▼
FIJAR  : SET  SIGUIENTE : DISPLAY
```

*CLEAR*

*SELECT*
*▲▼◄►*

*SET*

*DISPLAY*

## Fijaciones iniciales

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

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

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

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

**SALIDA DE AUDIO**
Puede usted ajustar la salida audio procedente del terminal de salida audio digital.

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

**PREFERENCIA**
Para seleccionar si el material del vídeo para pantalla ancha será vuelto a reproducir en el estilo Pan&Scan, en el estilo Letterbox o en el estilo 16 : 9 en la pantalla.

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

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

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

## Selección de IDIOMAS DEL DISCO [DVD solamente]

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

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

## Cambio del idioma de subtítulos [DVD solamente]

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

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

**2** **Presione ▲▼** para seleccionar el idioma deseado.

**Presione ▶** (o ◀) para ajustar.

**Presione ▲▼** para seleccionar "ACTIVO" o "INACTIVO."
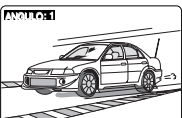
## Cambio del idioma de la pista de sonido [DVD solamente]
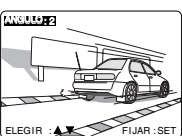
El idioma de la pista de sonido seleccionado al hacer las fijaciones iniciales se puede cambiar por otro idioma diferente, si éste se encuentra disponible.

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

**2** **Presione ▲▼** para seleccionar idioma.

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

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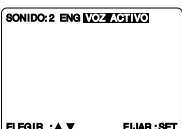
Algunos discos con películas, por ejemplo, vienen con dos o más títulos. Si el disco tiene un menú de títulos grabados, el botón TITLE podrá utilizarse para seleccionar el título de la película.

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

**2** 
**Presione ▲▼ ◄ ►** o **las teclas de números** 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.
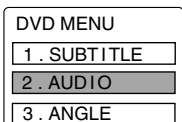
**Presione ►** (o ◄) para ajustar. (DVD solamente)

- 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

## Utilización de un menú 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 **las teclas de números** 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.
**Presione** *ZOOM* repetidamente para cambiar el tamaño de la imagen como se indica a continuación:

■ Use los botones ▲, ▼, ◄ y ► para desplazar la posición hacia arriba, hacia abajo, hacia la izquierda o hacia la derecha.

**59**

# Index