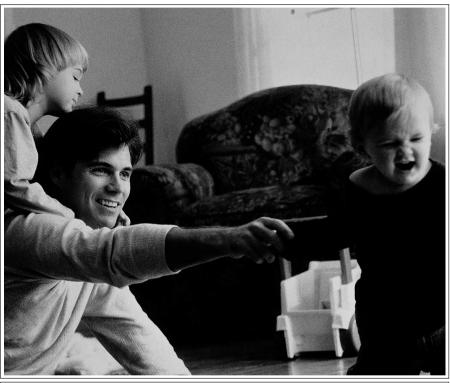




Omnivision WS

### **Panasonic**®

DVD/VCR DECK **Operating Instructions** Model No. PV-D4762



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



















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

Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

Spanish Quick Use Guide is included.

(Guía para rápida consulta en español está incluida.)

LSQT0525A

### **Important Safeguards and Precautions**

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

#### INSTALLATION

#### 1 POWER SOURCE CAUTION

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

#### 2 POLARIZED OR GROUNDING PLUG

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

POLARIZED PLUG CAUTION:

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

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

#### 3 POWER CORD

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

#### 4 DO NOT BLOCK VENTILATION HOLES

Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes or discs.

For protection, follow these rules:

- Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.
- b. Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.

#### 5 PLACEMENT: AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

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

#### 6 TO AVOID PERSONAL INJURY

- Do not place unsecured equipment on a sloping surface.
- Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

#### **OUTDOOR ANTENNA INSTALLATION**

#### 1 SAFE ANTENNA AND CABLE CONNECTION

If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges.

Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire

structure, grounding of the lead-in whe statement of an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

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

#### **USING THE UNIT**

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

- 1 KEEP THE UNIT AWAY FROM WATER OR MOISTURE OF ANY KIND.
- 2 IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug the unit and have it inspected by a qualified service technician before use.

#### 3 DURING AN ELECTRICAL STORM

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

#### 4 WHEN THE UNIT IS PLUGGED IN

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

#### **5 USING ACCESSORIES**

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

#### **6 CLEANING THE UNIT**

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

#### SERVICE

#### 1 DO NOT SERVICE THIS PRODUCT YOURSELF

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

#### 2 IF REPLACEMENT PARTS ARE REQUIRED

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

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

### Safety Precautions/Mesures de sécurité

WARNING: To prevent fire or shock hazard, do not expose this

equipment to rain or moisture.

CAUTION: To prevent electric shock, match wide blade of plug to

wide slot, fully insert.

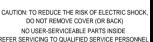
Avertissement: Afin de prévenir tout risque d'incendie ou de chocs

électriques, ne pas exposer cet appareil à la pluie ou

à une humidité excessive.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.







This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock.

Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



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

#### **CAUTION:**

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

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

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

DO NOT OPEN COVERS AND DO NOT 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 ratio/TV technician for help. The user may find the booklet, "Something About Interference" available from FCC local regional offices helpful.

#### FCC Caution:

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

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

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

#### **Region Management Information:**

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

The Region number for this DECK is 1.



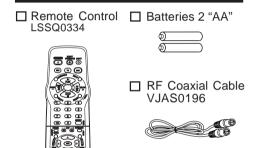
### **Before Using**

#### 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.

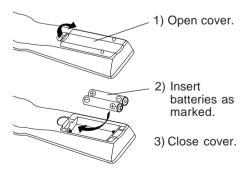
- · Date of Purchase
- Dealer Purchased From
- Dealer Address
- Dealer Phone No.
- Model No. PV-D4762
- Serial No. \_

#### Accessories



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

#### Loading the Batteries



#### ☐ 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:



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



Video CD

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

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**

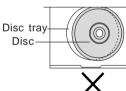
#### Handling precautions

- 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.



#### 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.).

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### **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. 56).

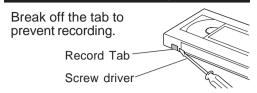
#### **Built-in Head Cleaner**

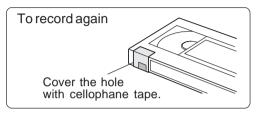
A clean video head helps produce a clear picture.

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**





#### **Record/ Playback Time**

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

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

#### 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

1 track (Normal), 2 channel (Hi-Fi Audio Sound) Audio Track:

Tuner:

VHF 2 ~ 13, UHF 14 ~ 69 **Broadcast Channels:** 

CABLE Channels: Midband A through I (14 ~ 22), Superband J through W (23 ~ 36)

Hyperband AA ~ EEE (37 ~ 64), Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A (01), Ultraband 65 ~ 94, 100 ~ 125

Input/Output Terminal: Audio/Video Line Input/Output, RF Input/Output

Input Terminal: Audio/Video Line Input (Front)

**Output Terminal:** S-VHS Output (DVD only), Component Video Output (DVD only)

Audio Output 2 (L), (R)

**Operating Temperature:** 5 °C ~ 40 °C (41 °F ~ 104 °F)

Operating Humidity: 10 % ~ 75 % Weight:

6.9 kg (15.2 lbs). 430 (W) x 118 (H) x 364 (D) mm Dimensions:

16-15/16" (W) x 4-5/8" (H) x 14-5/16" (D) inch

Discs Played

(1) DVD-VÍDEO 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) 5" (12 cm) disc

(2) Compact Disc 3" (8 cm) disc (CD-DA, VIDEO CD) Digital Óptical Connector **Digital Audio Output:** 

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

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 guickly search for

a favorite scene using these numbers.

DVD: A high-density optical disc on which high-quality pictures and sound have

been digitally recorded. DVD incorporates new video compression

technology (MPEG II) and high-density recording technology which allow

entire movies to be recorded with incredible playback quality.

Playback Control: With Video CD (version 2.0), scenes or information may be selected for

viewing or listening from an interactive menu that appears on the TV screen.

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

Time Number: The elapsed play time from the start of a disc or title. Use to quickly find

scenes. (May not work with some discs.)

Title Number: For DVD discs with two or more titles, the title is numbered as title 1, title 2, etc. Track Number: Numbers assigned to tracks on Video CDs and CDs to allow specific tracks

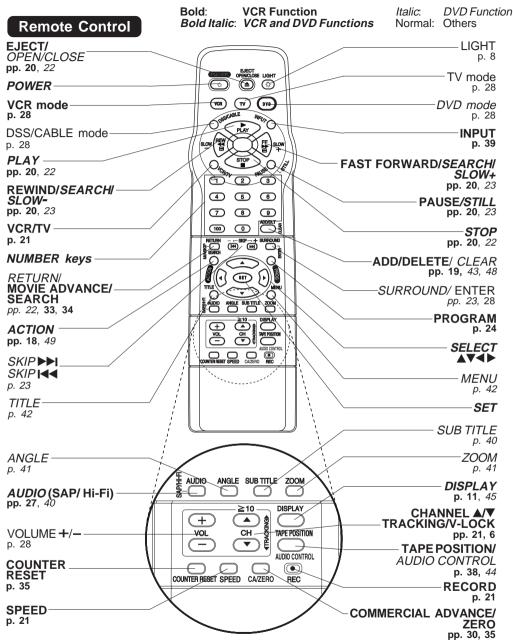
to be quickly located.

Video CD: CD containing picture and sound with same quality level as video tape.

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

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

### **Location of Controls**

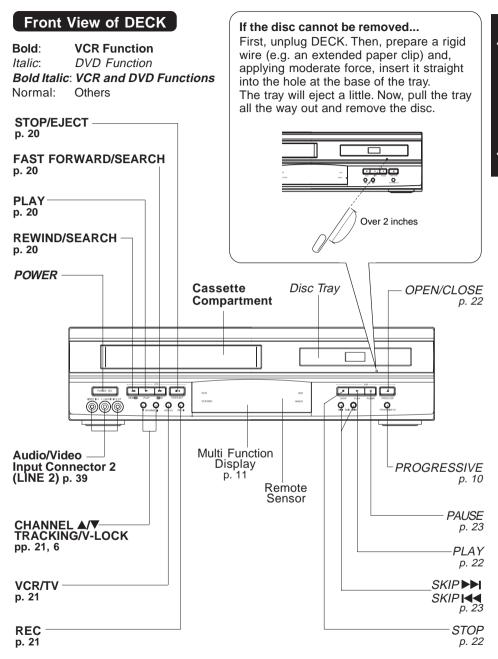


**Light Tower Universal Remote Control** 

**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.



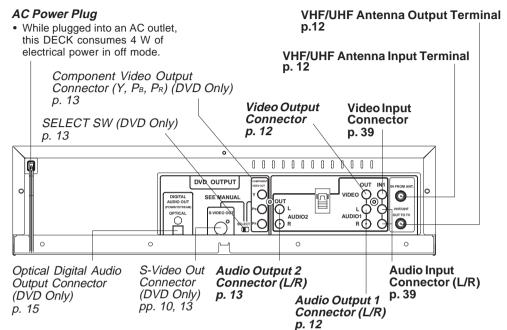
### **Location of Controls (continued)**

#### **Rear View of DECK**

Bold: VCR Function

Italic: DVD Function

Bold Italic: VCR and DVD Functions



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

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



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

#### To enjoy PROGRESSIVE SCAN video -

- (1). Connect *Component Video Output* to the component video input terminals of a television. (See p. 13.)
- (2). Set the "COMPONENT VIDEO OUT"/"S-VIDEO OUT" SELECT SWITCH, in the back of the DECK, to "COMPONENT VIDEO OUT." (See above.)
- (3). When the PROGRESSIVE button is pressed, the ON lamp lights up (see p. 9) and the PROGRESSIVE SCAN signal is output from the *Component Video Output Connector*.

#### Note

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

### Displays (On Screen & Multi Function)

#### On Screen Displays (VCR)

#### Function & Channel Displays



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

(See p. 26.)

### 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. 37) set to OFF, the TV screen will turn solid blue.

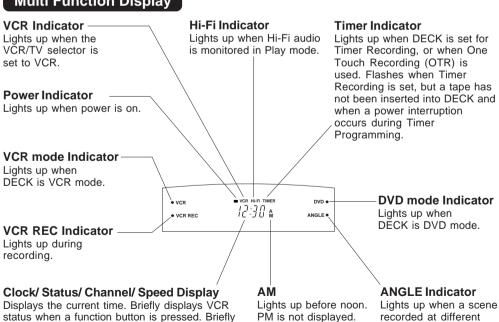
**VCR Status & Clock Displays** Function Status Current Time Channel To display or remove overlay at right, REC 12:00AM CH 02 -0:12:34 SP Rec Time Remaining -0:25 (€STEREO ◀ Counter → press DISPLAY. (OTR mode only. MONO see p. 21.) Tape Speed Broadcast Audio Being Received (See p. 6.)

#### **Multi Function Display**

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.



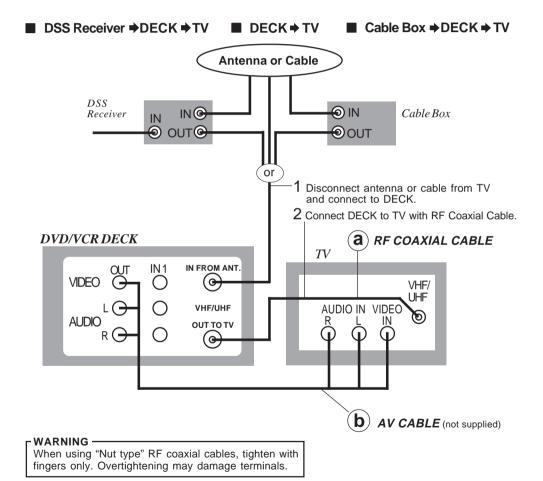
angles is detected.

See p. 41. (DVD only).

### **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 (a) (supplied) or an AV Cable (b) (not supplied) as shown in the figure below.

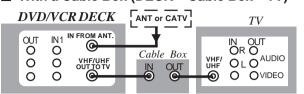


#### Note to CABLE system installer -

This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

#### Other Connections

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



DVD/VCR DECK

IN1

IN FROM ANT.

**(** 

VHF/UHF

OUTTOTV

(e)

A/B Switch

IN 1 IN 2

o

#### Connect With Two Cable Boxes

ОГТ

0 0

0 0

O 0

Cable Box

OUT

**@** 



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

#### You Cannot

 record scrambled channels

### 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.

#### 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.

#### **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).
- (2) If your TV has COMPONENT VIDEO INPUT, set SELECT SW to COMPONENT VIDEO OUT. If your TV does not have COMPONENT VIDEO INPUT but has S-VIDEO INPUT, set SELECT SW to S-VIDEO OUT.
- Note The picture will not be displayed if the SELECT SW is not set to the correct video output.
- ${rac{oldsymbol{\Im}}{3}}$ When in DVD mode, set your TV to either COMPONENT VIDEO IN or S-VIDEO IN.

 $\Gamma_{ANT}$ 

or

CATV

Cable Box

2-Way Splitter

OUT 2

IN OLIT

OUT1

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.

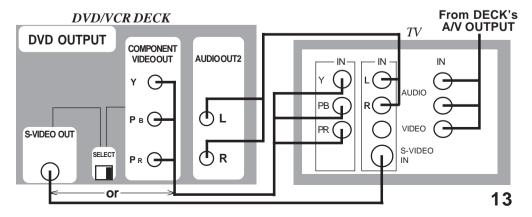
TV

OVIDEO

IN OUT OR O<sub>AUDIO</sub> OL O

O VHF/

 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.



### Connections (continued)

#### **Audio Connections**

<b>7</b>	Ready	Check	list
_	neauy	CHECK	113

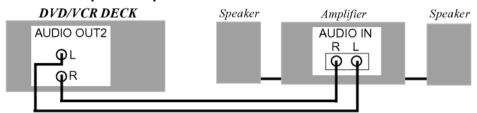
Turn down	the volume,	then turn	DECK, as	well as	other	equipment to	o be connected,	
off before p	proceeding v	vith conne	ction.					

☐ Do not block ventilation holes of any of the equipment and arrange them so that air can circulate freely.

☐ Read through the instructions before connecting other equipment.

☐ Ensure that you observe the color coding when connecting audio and video cables.

#### ■ DECK → Amplifier → Speaker



#### Enjoying digital audio output from the digital audio output connector Notes on audio output from the optical digital audio output connector

Disc	Sound recording format	Optical digital audio output from connector
DVD	Dolby Digital	Dolby Digital bitstream (1-5.1 ch) or OFF (no output)*1
	Linear PCM (48/96 kHz 16/20/24bit)	Linear PCM (2ch) (48 kHz sampling/16 bit only)*2 or no output*1
	dts	Bitstream or no output*1
Video CD	MPEG 1	PCM (44.1 kHz sampling)
CD	Linear PCM	Linear PCM (44.1 kHz sampling)
MP3	MP3	Linear PCM (It depends on the MP3 file)

<sup>\*1</sup> The type of audio output from the connector can be selected by the Settings for DVD Operation. (See p. 50.)

#### For your reference:

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

Manufactured under license from Dolby Laboratories.

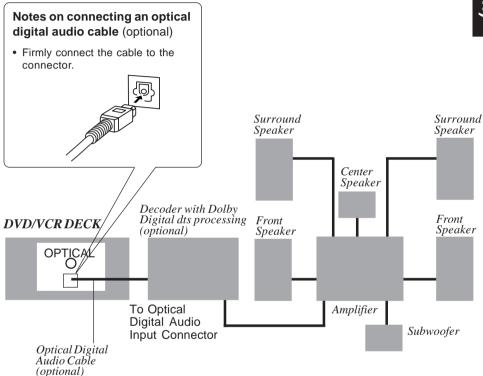
"Dolby," "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.

<sup>\*2</sup> Sound having 96 kHz sampling is converted into 48 kHz sampling when it is output from the DECK's optical digital audio output connector.

# ■ 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.]



#### 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. 50).
   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. 50).
- Video CDs and CDs can be played as usual.

#### Note:

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

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

#### **Before doing Initial Setup**

- 1 Turn TV on.
- 2 See connections (a) RF Coaxial Cable Connection and (b) AV Cable Connection on p. 12. <RF Coaxial Cable Connection>
  Set TV to channel 3.
  - <AV Cable Connection> Set TV to VIDEO.
- **?** [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)

- Press VCR on remote for VCR mode.
- 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.



PROCEEDING

CANCEL: STOP

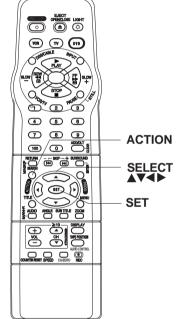
Plugging the AC Power Plug into an AC outlet

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.

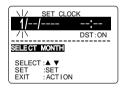




#### **Manual Clock Set**

If Auto Clock Set was incomplete.

Press ACTION\* on remote to display CLOCK screen.



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).



3 Press ACTION to start clock and exit.

### Reset Language, Channels, Clock

1

# MENU SET UP VOR SET CLOCK SET UP CHANNEL SET UP COMMERCIAL ADV. IDIOMA/LANGUE: ENGLISH VCR'S OUTPUT CH:3 SELECT: A SET:SET FXIT: 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 PROGRAM.

2

#### Language

 Press ▲▼ to select language item.



2) Press SET repeatedly.



For Spanish



For French



For English

Press ACTION to exit.

#### Channels

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



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



- Press ▲▼ to select "AUTO SET," then press SET.
- If you use a Cable Box, set it to the PBS channel in your time zone.



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

#### Clock

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



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



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



- Press ▲▼ and ◀ to select, then set the date, time, and DST (Daylight Saving Time).
- Press ACTION to <u>start</u> <u>Clock</u> and exit this mode.

### **VCR's Output Channel**

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

#### Time Zone Adjust

(Only when Auto Clock is set.)

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



 Press ▲▼ to select "TIME ZONE ADJUST,"



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

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

### ■ VCR's Output Channel

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



2) Press SET.



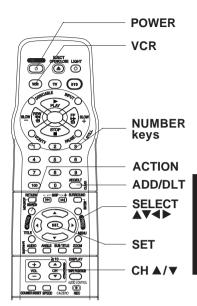
3) Press ACTION.



After 3 seconds



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



#### Add or Delete a Channel

To add channel:

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

CHANNEL 08 ADDED

To delete channel:

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

CHANNEL 08 DELETED

#### **DST (Daylight Saving Time)**

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

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

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

- If your area does not observe Daylight Saving Time, select DST:OFF.
- Keep these time changes in mind when programming DECK for timer recordings.

### Playback/ Record on a Tape

### Ready Checklist

- ☐ All connections are made (pp. 12 ~ 15).
- ☐ TV and DECK are plugged in.
- ☐ TV is on and tuned to CH3, 4, or VIDEO.
- ☐ Remote is in VCR mode. (Press VCR.)

#### Playback a Tape

#### Insert a tape.

- DECK power comes on. The VCR mode and "VCR" indicator light up on Multi Function Display.
- **9** 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.

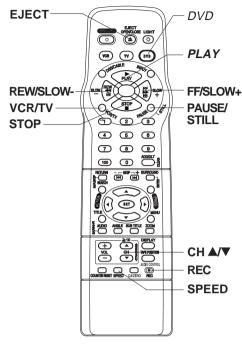
After search has begun, each additional press of **FF** or **REW** changes speed as shown below.

[SLP] : Approx.  $21X \leftrightarrow$  Approx. 9X[LP] : Approx.  $9X \leftrightarrow$  Approx. 7X[SP] : Approx.  $7X \leftrightarrow$  Approx. 3X

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

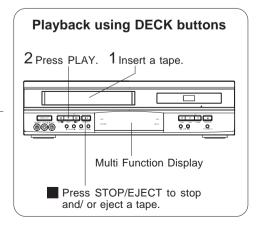
#### Notes

- Picture interruption may occur with some TVs.
- FF and REW search speed may vary depending on current tape position.
- Still (Freeze) Picture
  - → Press PAUSE/STILL
  - → Press PLAY to release.
- Frame by Frame Picture
  - Press PAUSE/STILL in Still mode.
  - → Press PLAY to release.
- Slow Motion Picture
  - Press FF/SLOW+ (increase speed) or REW/SLOW- (decrease speed) in Still mode.
  - Press PLAY to release.
- **3** Press STOP to stop a tape.
- Press REW/SLOW- or FF/SLOW+ in Stop mode to rewind or fast forward a tape.
- Press EJECT on remote, or STOP/EJECT on DECK to eject a tape.



#### Notes

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



#### Record on a Tape

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.

### Press CH ▲▼, or NUMBER keys to select the channel.

- For "LINE" input, see p. 39.
- If channel is over 100, press 100 key then press the remaining 2 digits.

#### Press SPFFD

Press ארביט 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.

### A 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.

#### **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.

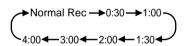
This video recorder, equipped with HQ (High Quality) system, is compatible with existing VHS equipment. Only use tapes with the **VHS**I mark. Only tapes tested and inspected for use in 2, 4, 6, and 8 hour machines are recommended.

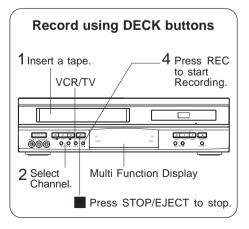
#### Note

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





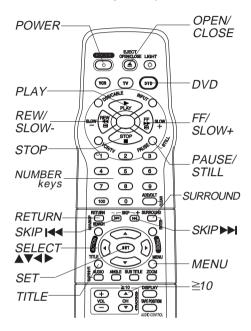


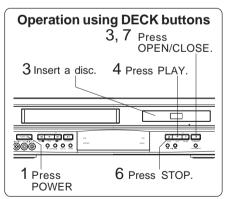


### **Basic DVD Operation**

### 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.





- \*1 Interactive DVD... May include multiple camera angles, stories, etc.
- Video CD with playback control... Particular scenes or information can be interactively selected from a menu that appears on the screen.

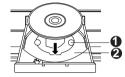
1 Press POWER\* on the remote or DECK.

Press *DVD* to select DVD mode.If a disc is already inserted, go to step 4.

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

#### ? Press OPEN/CLOSE,

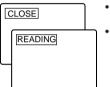
and then place a disc into the disc tray.



- Hold disc by its edges only (p. 4) with printed side up and use guides to place into tray.

   The A ON (p. 47)

   The A ON
  - Use **1** 3"(8 cm) or **2** 5" (12 cm) disc.
- **Press PLAY** to start playing. Disc tray closes automatically.

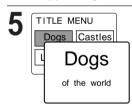


- You may also close tray by pressing OPEN/CLOSE.
- Data reading time differs with each disc.

#### <Example>

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





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

<Example>

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)

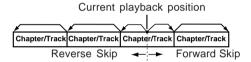
**6** Press *STOP* to stop playing.

Press OPEN/CLOSE to eject the disc.

#### ■ Forward/Reverse Scene Search Press FF/SLOW+ or REW/SLOWduring play.

#### Press PLAY to release.

- Starting forward/reverse search during play started from menu on Video CDs may recall menu.
- Search speed, slow at first, increases with each additional press of the button up to 5 levels.
- Forward/Reverse Chapter/Track Skip Press SKIP ▶▶ or |◀◀ 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.



#### ■ 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.

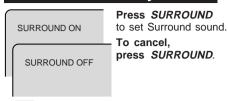
- Each press advances picture one frame.
- Hold button down for consecutive frame advance.
- Whether pictures are advanced by "FRAME" or "FIELD" is selected automatically. (See p. 51)

# ■ Slow Motion Picture (DVD/Video CD) Press FF/SLOW+ or REW/SLOWin 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 
   \( \int \) 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**



#### 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*.
- 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.

### **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.
- Press PROG\* to display Program.



#### Example

Today



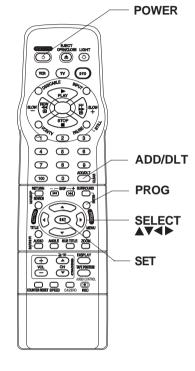
- 1) To set record DATE, press ▲▼ to select:  $1\sim31=$  one time, or DAILY= MON~ FRI. or WEEKLY= same time
- each week and · See selection order left.

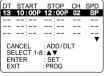
press SET.

2) To set remaining items, press ▲▼ to select and press SET to set START/STOP times. CH(channel) or LINE input (p. 39), and tape speed (SP, LP, SLP).

#### Press PROG

to end programming.





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 DVD VCR BEC ANGI F 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 91004 121004 03 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.

# 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.

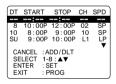
To Replace program...



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

or

To Clear program...



Press ADD/DLT.

4 Press PROG to end the programming.

#### Notes

- If you are using a Cable Box, the VCR's channel for Timer Recording must be set to the Cable Box input channel and Cable Box must be manually set to the desired channel. Cable Box power must be left on.
- 2 minutes before Timer Recording is performed, "PLEASE PREPARE FOR TIMER REC" appears and Timer Indicator flashes.

  Province according to the included and RECK is in Standard and RECK.

  The standard and RECK is in Standard and RECK.

  The standard and RECK is in Standard and RECK.

  The standard and RECK is in Standard and RECK.

  The standard and RECK is in Standard and RECK.

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.

### 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 onscreen displays.

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

To display the broadcast signal being received,

→ press DISPLAY\*.

#### MTS Stereo and SAP broadcast

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

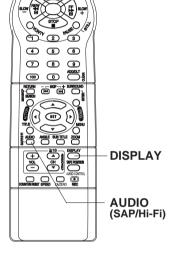


#### MTS Stereo broadcast

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

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





#### **SAP** broadcast

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



#### **MONO** broadcast

Normal monaural sound broadcast.

STOP	12:00AM	CH 02 0:00:00
STEREO SAP MONO	4	SP
WONO		

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

◆ Press AUDIO (SAP/Hi-Fi)

to display audio mode.

(Display disappears after 5 seconds.)

2 (sstereo (ssap dono)

**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**

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.

### **Multi-Brand Control Feature**

#### **Multi-Brand Control Setup**

The Remote Control can be set to control some TV and Cable Box/DSS functions.

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

- 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.
- 2 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.)

	- POWER
/	- VCR
	_ DSS/ CABLE
E/ECT OPENIOLOSE LIGHT	- TV
VOR VY DYT	– DVD
SLOW (FED STOP)	
4 5 6	<ul><li>NUMBER keys</li></ul>
7 8 9 100 0 0 3	
RETURN - SOP + SURFOLMO	- ENTER
TITLE SET IN MENU	
# AUDIO ANGLE SUBTITLE ZOOM	
DISPLAY  THE PROPERTY OF THE P	

DOM/ED

Unit Mode	DVD/VCR	TV	CABLE/ DSS
DVD/VCR	All	VOL <b>+</b> / <b>-</b>	
TV	EJECT/OPEN/CLOSE*, DISPLAY, PLAY, STOP, FF/SLOW+, REW/SLOW-, VCR/TV, PAUSE/STILL, SKIP, AUDIO, CA/ZERO.	POWER, INPUT, NUMBER keys, ENTER, CH A/V, VOL +/-	
CABLE/ DSS	TAPE POSITION, COUNTER RESET, SPEED, REC	VOL +/-	POWER, ENTER, NUMBER keys (except 100key), CH ▲/▼

<sup>\*</sup> Bold: VCR Function Italic: DVD Function

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

TV Brand Code Numbers	
Panasonic 01, 02 Sylvania	
Quasar 01, 02 Sharp	
RCA 03 Sony	
GE 03 Toshiba	
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	Panasonic
52, 04, 124, 126	Philips
Citizen	Pioneer 06, 05, 12
Curtis	Pulsar 04, 42, 63, 44, 30, 52, 124, 126
Century	Quest
Cabletenna	Radio Shack
Cable Cinema	RCA 17, 16, 08, 87, 109
Diamond	Realistic 44, 51, 75, 59, 126
Eagle	Recoton 44, 51, 75, 59, 126
Eastern	Regal 41, 14, 15, 28, 102, 104, 103, 130
Explorer 08, 09, 25, 61, 53, 87	Regency 28, 29, 130
Gemini 30, 04, 124	Rembrandt 44, 42, 63, 29, 01, 32, 39, 120, 126
General Electric 01, 57, 120	Samsung 42, 06, 32, 05, 40
General Instruments . 01, 84, 83, 34, 03, 02, 04, 55	Scientific Atlanta 08, 09, 25, 61, 53, 87
65, 66, 67, 68, 120, 106, 121, 122, 115, 117, 118, 124	Sheritech
Gerrard 44, 51, 75, 59	Signal 26, 112
GC Electronics 44, 42, 63, 29, 30, 52, 04	SL Marx 42, 06, 32, 40, 43, 44, 52, 63, 126
124, 126	Sprucer 17, 16, 08, 87, 109
Hamlin 41, 14, 15, 28, 102, 104, 103, 130	Standard Components
Hitachi	Stargate04, 42, 32, 40, 63, 44, 30, 52, 06
Jerrold 01, 84, 83, 34, 03, 02, 04, 55, 65, 66	124, 126
67, 68, 120, 106, 121, 122, 115, 117, 118, 124	Sylvania
Jasco	Teknika
Macom 31   Magnavox 26, 112	Telecaption
,	Tesscan
Matsushita	Tocom
Maestro	Toshiba
NEC	Unika
NSC	Universal52, 43, 44, 63, 42, 126
Novavision	Viewstar
Next Level 01, 84, 83, 34, 03, 02, 04, 55, 65	Videoway
66, 67, 68, 120, 106, 121, 122	Vidtek
Oak	Zenith 07, 23, 50, 129
DSS Brand Code Numbers	
Toshiba	Optimus
Hitachi/ Hughes91, 99	Panasonic
Primestar	ProScan
Drake	RCA
	SONY
Magnavox 94, 95   Uniden 94, 95	30INT98, 105

#### Important Notes

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

### **Tape Operation**

#### COMMERCIAL >> ADVANCE®

COMMERCIAL -- ADVANCE® detects and marks the beginning and end points of commercials on your tape for recordings over 15 minutes in length.

When COMMERCIAL PADVANCE\* marked tape is played back, the VCR automatically advances through the commercial segments at high speed. You can also set this feature to Manual so as to have more control over the advance process. The effectiveness of this system can vary due to differences in the way television stations broadcast. See page 32 for answers to the most commonly asked questions about this feature.

#### COMMERCIAL >> ADVANCE Marking

When C/A RECORD: ON, VCR automatically rewinds the tape after a recording has been made and marks the beginning and end of any detected commercial blocks. After marking is done, the tape is returned to the end of recording. Commercials are not erased from the tape.

Press ACTION\* to display MENU.

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

SELECT : ▲ ▼

Press ▲▼
to select "SET UP
COMMERCIAL ADV.,"
and press SET to
display.



: ACTION

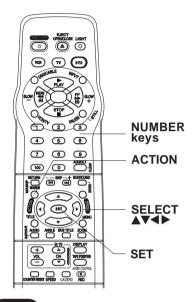
SET:SET

Press ▲▼

to select "C/A RECORD," and **press SET** to set "ON" or "OFF".

### Ready Checklist

- ☐ All connections are made.☐ One time Setup completed.
- ☐ VCR is plugged in.
- TV is turned on and set to CH3, 4 or Video on TV.



Note

 When using the timer to record two adjacent shows on the same channel, better accuracy can be obtained by programming each shows separately.

**ON** Timer Recording and One Touch recordings are marked automatically.

THE VCR IS WAITING TO MARK COMMERCIALS IN THE PROGRAM YOU RECORDED.

MARKING
NOW : PRESS 1
LATER : PRESS 2
CANCEL : PRESS ACTION

When STOP is pressed during normal recording, Select One of a) or b) or c).

a) Press 1 key to mark the recording now.
 "NOW MARKING COMMERCIALS" appears.

- b) Press 2 key to mark the recording <u>later</u> (after the power has been turned off).
- If the tape is rewound and another recording started before the power is turned off, commercials may not be marked correctly.
   c) Press ACTION to cancel the marking of this recording.

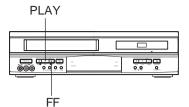
OFF The VCR will not mark commercials.

When you are editing or dubbing a tape, or when you do not wish to use this feature, OFF should be selected.

4 Press ACTION twice to return to normal screen.

#### COMMERCIAL \*\* ADVANCE \* Playback

When playing back recording which have been marked using COMMERCIAL -- ADVANCE feature, you can either set VCR to automatically advance through marked commercial blocks, or set it so that commercials are only skipped on your command.



#### Press ACTION to display MENU.

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

#### Press ▲▼ to select "SET UP COMMERCIAL ADV.." and press SET to display.



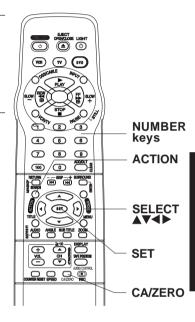
#### Press ▲▼ to select "C/A PLAYBACK," and press SET to set "AUTO" or "MANUAL".

AUTO : VCR will automatically advance through marked commercial blocks recorded on the tape and then resume playback.

MANUAL: VCR will advance through commercials only when CA/ZERO is pressed. Playback will resume when the end mark of a commercial block is found, or a new recording or blank

portion is detected, or after 8 minutes.





COMMERCIAL -- ADVANCE and MOVIE -- ADVANCE® are registered trademarks of SRT, Inc. A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc. U.S.Pat. No. 5,333,091; 5,692,093; 5,696,866 other patents pending

#### Notes `

- The selection mode in step 3 remains set unless there is a power outage in which case the original factory setting will be restored.
- If playback is started in the middle of a commercial, only a single commercial is shown, or an individual commercial is longer than 1 minute, a commercial may not be skipped. Press FF to quickly advance through the commercial.
- · Part of a recorded program may be skipped over if the program portion between commercials is less than 1 minute or there are frequent dark and quiet scenes during the program. To view the portion of tape being incorrectly skipped, press PLAY while the VCR is skipping, reverse the tape to a point just prior to where the skipping began and press PLAY again. This time the group will not be automatically skipped. Automatic skipping will be re-enabled when the end of the marked group is detected.

### **Tape Operation (continued)**

The most commonly asked questions about COMMERCIAL -- ADVANCE are answered below.

Answer
The VCR advances through a 3-minute commercial block in about 8 to 12 seconds if the tape speed is SLP. In SP, it takes about 25 to 35 seconds.
Yes. The commercials are not marked until after the recording is finished.
Yes. By setting the C/A PLAYBACK to MANUAL (see page 31), you can view or advance through commercials as desired.
Yes. COMMERCIAL ADVANCE® works in SP, LP, and SLP.
Yes. As long as C/A PLAYBACK is set to AUTO (see page 31), the VCR should advance through commercials each time the tape is played back.
The tape stops at the end of the recording so that any additional timer recordings can be performed.
Yes. COMMERCIAL ** ADVANCE ** marked recordings will play in non-COMMERCIAL ** ADVANCE ** VCRs, but commercials will not be advanced through.
No. If the interval between 2 or more timer programs is not sufficient to mark the recording, marking will be done after all recordings are complete and the power goes off.
Marking will be resumed when the VCR's power is turned off as long as the tape has not been ejected.
Please see the 3rd note on page 31.

#### Additional Notes:

- Because of the various ways in which commercials are broadcast, the VCR may not be able to recognize all commercials.
- If a timer recording is scheduled for the middle of the night, please be aware that the VCR will
  make some noise as it rewinds and fast forwards the tape while marking commercials.

COMMERCIAL \*\*ADVANCE\* and MOVIE \*\*ADVANCE\* are registered trademarks of SRT, Inc. A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc.

U.S.Pat. No. 5,333,091; 5,692,093; 5,696,866 other patents pending

#### MOVIE >> ADVANCE®

MOVIE PADVANCE® helps you locate certain parts of prerecorded movies (rented or purchased). The feature works in two ways.

- You can go to the beginning of the movie.
- You can skip from one preview to the next.

MOVIETADVANCE® works only on tapes recorded in SP speed with the record tab removed.

- Insert a tape without record tab.
- **Press SEARCH/ M/A SKIP\*** three times to display MOVIE ADVANCE.



Press ▲▼ to select "GO TO START MOVIE" or "GO TO PREVIEW."

<u>Select "GO TO START MOVIE,"</u> if you want to advance directly to beginning of the movie.

continue with step 4.

<u>Select "GO TO PREVIEW,"</u> if you want to view the first (next) preview.

→ go to "To Search for Preview" at right.

MOVIE ADVANCE
SEARCHING FOR START
OF MOVIE

CANCEL:STOP

Press FF to start searching.

 To cancel, press STOP.

#### When the movie is found...

MOVIE ADVANCE
THE MOVIE IS READY

START :PLAY

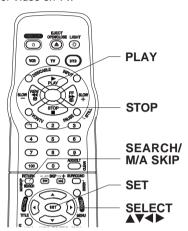
CANCEL :STOP

Press PLAY to start playback.

 To cancel, press STOP.

### Ready Checklist

- ☐ All connections are made.
- One time Setup completed.
- ☐ VCR is plugged in.
- TV is turned on and set to CH3, 4 or Video on TV.



#### To Search for Preview.

You can override the operation of MOVIE \*\*ADVANCE\* SEARCH FOR PREVIEWS mode by pressing SEARCH/ M/A SKIP during tape searching.

MOVIE "ADVANCE" works by searching the tape past each preview and then reversing back to the start of the detected preview. While the tape is reversing back, if SEARCH/ M/ A SKIP is pressed, MOVIE "ADVANCE" will begin searching for the next preview. While searching for the next preview, if you see the start of a preview which you wish to watch, press SEARCH/ M/A SKIP and

reverse back to the start of that preview, instead of searching further past the preview start point. Once the VCR is playing a preview, press SEARCH/ M/A SKIP to advance to the next preview, long commercial or the start of the movie (whichever is next).

#### ◀ Start preview searching.

- 1) In step 3 at left, select "GO TO PREVIEW."
- 2) Press FF.
- If you want to playback, press PLAY.

When a preview is detected, VCR will start playback.

2 Start next preview searching. Press SEARCH/ M/A SKIP.

To cancel, press STOP.

### **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**

INDEX SEARCH
ENTER INDEX NUMBER: 1
USING 1-9 KEYS
FORWARD SEARCH-FF
REVERSE SEARCH-REW
NEXT SEARCH-MA
EXIT SETOP

Press SEARCH/ M/A SKIP\* to display SEARCH in Stop or Play mode, and then press NUMBER kevs

to select recording

 To calculate number, see below.

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

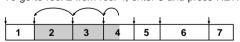
PORWARD SEARCH : FF
REVERSE SEARCH : REW

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

PLAY or STOP.

## To Calculate Index Number Example 1:

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



#### Example 2:

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



NOTE: 

indicates start points of each recording.

#### Note

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

#### **Program End Search**

Locates end point of recording for continuity.

Press SEARCH/ M/A SKIP twice to display SEARCH in Stop or Play mode.



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

 To cancel, press PLAY or STOP.

#### Examples of **Program End Search**.

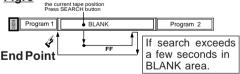
#### **Fig. 1**



#### Fig. 2



#### <u>Fig. 3</u>



#### 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.

#### Zero Search

To quickly return to a specified tape location.

Press DISPLAY during play to display Counter.

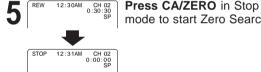


Press COUNTER RESET at desired position to reset to "0:00:00".

mode to start Zero Search.

Continue to record, playback etc.

Press STOP.



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

#### **Auto Operation Functions**

#### Auto Play

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

#### ■ Auto Rewind

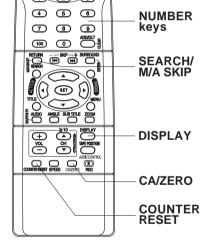
→ Tape end → Rewind

#### ■ Play Auto Eject

(Repeat Play must be off)

Play → Tape end → Rewind

➤ Tape ejects if no record tab



DVD

**REW/SLOW-**

FF/SLOW+

**PLAY** 

**STOP** 

### **Tape Operation (continued)**

#### Repeat Play

Set to playback a recording over and over.

1 Press ACTION\* to display MENU.

MENU
SET UP VOR
SET CLOCK
SET UP CHANNEL
SET UP COMMERCIAL ADV.
IDOMALANGUE: ENGLISH
VOR'S OUTPUT CH:3

SELECT: A Y SET:SET
EXIT : ACTION

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

SET UP VCR
REPAIR TO STAND OF SET SET END ACTION

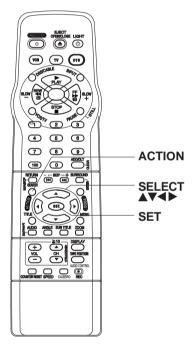
SELECT: A V SET: SET END ACTION

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 46.



## DEST OPENICLOSE LIGHT (1V) (DVD) 4 5 6 9 (7)(3) **ACTION** (100) ര **SELECT** ▲▼⋖▶ (II) **SET** AUDIO ANGLE SUBTILE ZOOM

Special VCR Features

#### **VCR Lock Feature**

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

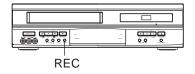
To turn on, hold down REC on DECK in Stop mode with no tape inserted for 7 seconds. (Please ignore "NO CASSETTE" warning.)



To turn off, repeat above.



 VCR Lock cancels in 24 hours if clock is set.



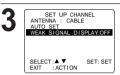
#### Weak Signal Display Feature

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

**Press ACTION** to display MENU.



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



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.

Press ACTION twice to return to normal screen.

#### Auto Shut-Off Feature

The power shuts off at a preset time.

**Press ACTION** to display MENU.



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



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



Press ACTION twice to return to normal screen.

#### Note

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

## **Special VCR Features (continued)**

#### Remote Warning Feature

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

Press ACTION\* to display MENU.

MENU
SET UP VOR
SET CLOCK
SET UP CHANNEL
SET UP COMMERCIAL ADV.
IDIOMALANGUE: ENGLISH
VOR'S OUTPUT CH:3

SELECT: A ▼ SET.SET
EXIT : ACTION

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

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

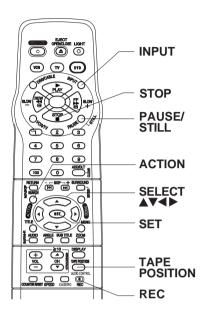
SELECT: V SET: SET
EXIT : ACTION

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.

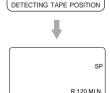
\*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.



#### **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 Cassettes type, tapes under 30 minutes, and some other tapes, but the position is not correct.

Press TAPE POSITION to detect current tape position.



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

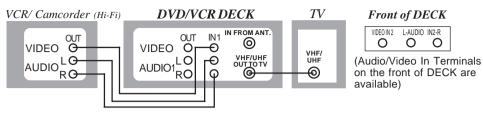
**2** Press TAPE POSITION to return to normal screen.

#### 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



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

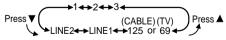
#### Recording (Editing) DECK Playing (Source) VCR Insert a blank tape with record tab. Insert a pre-recorded tape. Press INPUT to set DECK Input mode to LINE for Video Input. (See "Selecting the Input Mode" below.) Press PLAY, then PAUSE/STILL Press REC, then PAUSE/STILL immediately to enter PLAY/PAUSE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

#### ■ To Monitor Dubbing on TV

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

#### ■ Selecting the Input Mode

Method 1: Press INPUT repeatedly.
Channel Number ↔ LINE1 ↔ LINE2
Method 2: Press CH ▲/▼.
Display will change as below.



Note

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

## **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. 49.)

1



#### Press SUB TITLE\*

in Play mode to display the subtitle selection on-screen.

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

2



#### Press ▲▼

to select a language.

Press ► (or ◀ )

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. 49.)

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

1



#### Press AUDIO

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

 Display disappears after 5 seconds.

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

AUDIO DESP Dolby Digital 3/2.1ch

#### 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
СНІ	Chinese
KOR	Korean
MAL	Malay
VIE	Vietnamese
THA	Thai
*	Other

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

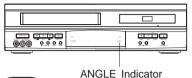
## [Audio attribute 1 type, sampling frequency, bit No. of the disc (see p. 50.)]

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

#### Notes

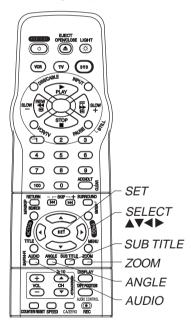
- If, after several presses of the AUDIO button the language does not change, language selection is not offered on the disc.
- When power is turned on again or disc is removed, language reverts to initial setting. If this language is not recorded on the disc, the language recorded will be heard.

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



#### Notes

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



#### Notes

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

#### Multiple Angle Viewing (DVD only)

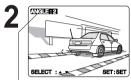
DVDs may contain scenes shot from multiple camera angles allowing the same scene to be viewed at different angles. You can view these angles, if available, using the ANGLE button.

## SELECTION SET: SET:

#### Press ANGLE

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

 Display disappears after 5 seconds.



#### Press **▲**▼

to select the desired angle.

Number of angle being played back.

#### Vocal Selection for Karaoke Discs (DVD/Video CD)

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



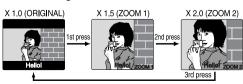
- DVD Karaoke (1 vocal) VOCAL ON -- VOCAL OFF
- DVD Karaoke (2 vocals) VOCAL V1 + V2-VOCAL V1-VOCAL V2-VOCAL OFF
- Video CD
   LR → L → R

#### **Picture Zoom (DVD only)**

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

**Press ZOOM** repeatedly to change display as follows.

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



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

## Disc Operation (continued)

#### Title Menu (DVD only)

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



Press TITLE\*

in Play mode to display the title screen.

<Example>



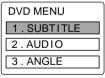
<Example>

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.



Press *MENU* 

in Play mode to display DVD MENU.

<Example>



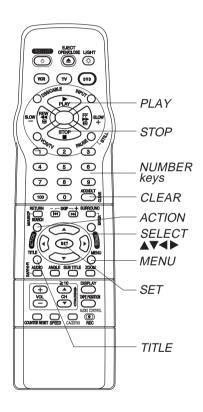
<Example>

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.



#### Program Play (Video CD/CD)

You can program specific tracks and order of play.

1 Press ACTION to display MENU.

DVD MAIN MENU
DISC LANGUAGES
AUDIO OUTPUT
STILL MODE
TV MODE
TV MODE
LETERDO 4:3
PRESENT LEVEL 8 4
SEECT : A V
SET : SET
END : ACTION

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

PLAY MODE

PROGRAM PLAY

RANDOM PLAY

SELECT : A Y

SET : SET

END : ACTION

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

PROGRAM PLAY

DISC

16 611 16 58
2 7 12 16 15 6
3 8 12 18 1 15 6
4 9 14 19 1 15
5 10 15 20 2

CLEAR LAST
CLEAR ALL
SELCT
END ACTION

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

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

press SET.

PROGRAM PLAY

D ISC.

10 15C.

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.

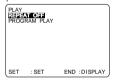
- To clear the last program one by one
  Press ▲▼◀ ► to move to "CLEAR LAST" and
  press SET. (Pressing CLEAR on remote control
  also clears last program.)
- To clear all programs
   Press ▲▼◀► to move to "CLEAR ALL" and press SET. (Programs are also cleared when the power is turned off or the disc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

### Ready Checklist

- ☐ DECK is in DVD mode, press DVD. ☐ Video CD or CD is inserted.
- Program Repeat Play (Video CD/CD)
- Do operation steps 1 through 5 at left on this page.
- Press DISPLAY to display Disc Information screen.
  (Disc Information Screen)



- **3** Press *DISPLAY* to display DECK Information screen.
- **4** Press SET to enter Select mode. "REPEAT OFF" will flash. (DECK Information Screen)



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



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

## **Disc Operation (continued)**

#### Random Play (Video CD/CD)

Tracks are played in a random order.

Press ACTION\* to display MENU.

DVD MAIN MENU DISC LANGUAGES AUDIO OUTPUT STILL MODE : TV MODE : FIELD Letterbox 4:3 PARENTAL ELAY MODE SELECT SET END SET ACTION

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

PLAY MODE PROGRAM PLAY SELECT SET END A ▼ SET 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.

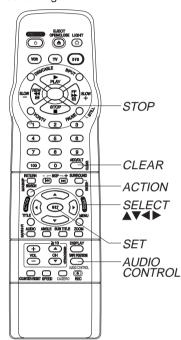
This means that, when compared to a music CD, etc., the average volume is generally lower and the peaks may be higher. This unit can be set so that the average volume is increased automatically.

## 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.



#### 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

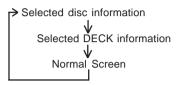
- · When audio equipment is connected, setting the Sound Output level to "OFF" is recommended.
- If the sound becomes abnormal while playing a disc, set the Sound Output level to "OFF,"

## **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).

- Ready Checklist

  DECK is in DVD mode, press DVD.
- **1 Press** *DISPLAY* in Play or Stop mode to display "On-Screen Displays."
  - Each press of DISPLAY changes the on-screen display as follows. (refer to p. 46.)

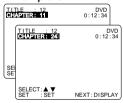


#### Note

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

- Press ▲▼ (or ◀►)
  to select an item, and
  press SET.
- 3 Press ▲▼ to select the setting, and press SET.



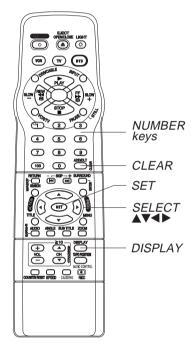


- For some functions the setting will be registered immediately without pressing SET.
- When numbers are displayed (e.g. title number), NUMBER keys are also available.

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.

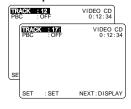
To return to normal screen, press CLEAR or DISPLAY repeatedly.



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

#### <Example of Video CD>



## DVD Operation using On-Screen Displays (continued)

#### **Detailed Descriptions of each On-Screen Display**

- Disc information screen (for DVD)
- 1. TITLE No.
  - Change the No. by **pressing ▲▼**\* or **NUMBER keys**, and **press SET**.
- 2. Chapter No.
  - Change the No. by pressing ▲▼ or NUMBER keys, and press SET.
- 3. Disc currently being played
- 4. Elapsed playing time

The screen may be changed by selecting the elapsed time.

- Change the elapsed time by pressing NUMBER keys.
   e.g., press 0 1 2 3 4 5 for 01 : 23 : 45.
- This function does not work with some discs.
- Disc information screen (for Video CD/ CD)
- A. Track No.
  - Change the No. by pressing ▲▼ or NUMBER keys, and press SET.
- B. Playback control ON/OFF

[Video CD with playback control only]

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

C. Disc currently being played

Video CD CD

D. Elapsed playing time

#### Note

- Track No. and the elapsed playing time are not displayed during play started from menu of Video CDs with playback control.
- 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. 43 or 44.)

PROGRAM PLAY	program play
RANDOM PLAY	random play
	normal play



CHAPTER: 12

SELECT: ▲ ▼

NEXT : DISPLAY

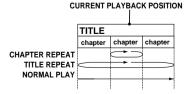
VIDEO CD

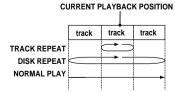
NEXT: DISPLAY



#### For your reference

• CHAPTER/TITLE REPEAT PLAY (DVD) • TRACK/DISC REPEAT PLAY (Video CD/CD)





#### Note

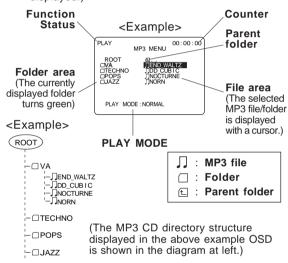
For repeat play in VCR mode, see p. 36.

#### 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.

**MP3 Playback Operation** 

- Press POWER on the remote or DECK.
- 2 Press OPENICLOSE, and then place a MP3 disc into the disc tray. Press OPEN/CLOSE. Press OPEN/CLOSE to close.
- MP3 MENU is displayed and playback is started automotice!! started automatically. (The MP3 CD directory is displayed.)



- 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 I◀◀ SKIP button can be used for track skip selection during playback. Place unit into Stop mode before performing folder/ file selection (see above right.)
- **Press STOP** to stop playing.
- Press OPEN/CLOSE to eject the disc. The MP3 MENU is closed automatically.

- MP3 playback (During STOP mode)
  - 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 (᠒).
  - 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)
  - Press ◀► to move cursor to PLAY MODE.
  - 2) Press ▲▼ to select the desired PLAY MODE (see below).

#### **IPLAY MODE1**

#### NORMAL:

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

#### SINGLE REPEAT:

The selected MP3 file is played back repeatedly.

#### FOI DER REPEAT.

The MP3 files contained in the selected folder are played back repeatedly.

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

#### **DISC REPEAT:**

All MP3 files are played back repeatedly.

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

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.

## Ready Checklist

DECK is in DVD mode, press DVD.

#### **DVD Lock (DVD only)**

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

Press ACTION\* to display MENU.



Press ▲▼

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



To Make Corrections

Press NUMBER kevs to

Press ◀ repeatedly to

make the correction.

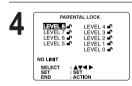
move the cursor.

1) Press NUMBER keys to enter your secret code.

- 2) Enter same secret code again for confirmation.
- Press SET to display.

 Step 2) not necessary when changing rating or secret

 Take care that you are not observed entering the secret code.



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.)

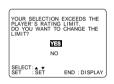
LEVEL 8: NO LIMIT: (Factory preset) All DVDs can be played back.

Press ACTION twice to end setup.

#### Caution

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

#### <When DVD Lock is activated>



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

To continue viewing a blocked program for now,

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

#### Change your secret code

 You will need your current code. Do step 1 ~ 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.

## **Settings for DVD Operation**

1 Press ACTION to display MENU.

DVD MAIN MENU
DISCLENGUOGS
AUDIO OUTPUT
TO MODODE
TO MODODE
TO AUTO
PARENTAL LOCK :LEVEL 8 M
SELECT SET

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. 50.)

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

#### STILL MODE (See p. 51.)

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. 51.)

To select whether the video material for a widescreen 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 DISO AUDIO STILL TV MC PARE



SET

Press ▲▼

to select "DISC LANGUAGES," and

press SET to display screen.

DISC LANGUAGES

AUDIO :English
SUBTITLE : AUTO
MENUS :English

Press ▲▼

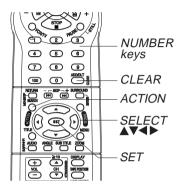
to select an item, and **press SET** repeatedly for desired language. (Please refer right.)

**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.



#### "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"

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. 52).

To make corrections, press 

repeatedly to delete language code number, and correct.

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

## Settings for DVD Operation (continued)

#### **Audio Output**

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

Press ACTION\* to display MENU.



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

AUDIO OUTPUT dts DRC SURROUND

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)

No output.

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

preset)

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

DVDs onlv1.

#### ■ "SURROUND" selections

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

OFF: No Surround Sound effect. (Factory preset) ON: Surround Sound effect.

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



DECK is in DVD mode, press DVD.

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

- Make settings according to amplifier connected to optical audio output as shown in above table.
- 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)".1
- \*2 When connecting an amplifier (with an optical digital input connector) which does not contain the Dolby Digital or dts decoder, be sure to select "OFF". If "Bitstream" is selected, starting DVD play may cause such a high level of noise as to be harmful to your ears and damage the speakers.
- \*3 When a dts decoder is connected, please select "Bitstream" in "dts". If "OFF" is selected, there will be no sound.

#### Notes

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

## Operation

#### Still Mode

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

Press ACTION to display MENU.



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.

Press ACTION to display MENU.



#### 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.

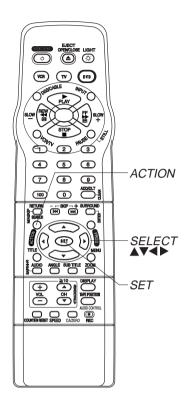
Letterbox 4:3:

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

16:9:

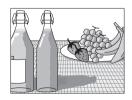
Set "16: 9" when using Wide-screen TV.

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

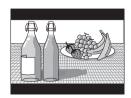


#### Example

• Pan & Scan (Factory preset)



Letterbox



## **Language Code List**

Enter the appropriate code number for the initial settings "AUDIO", "SUBTITLE" and/or "MENUS" (see p. 49).

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

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

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

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

9085 Zulu

## Informatio

## **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	If head cleaning becomes necessary while playing back a tape	6
END : PLAY		
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while DECK is in VCR Lock mode	37
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 38
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 38
PLEASE CHECK THE DISC, AND FOR STAINS OR SCRATCHES ON DISC	If you press PLAY, or DECK reads data from a stained or scratched disc in DVD mode. Also, if the type of disc is other than DVD, Video CD or CD	4
IT IS PROHIBITED TO COPY DVD/VIDEO CD/CD TO VHS	If you press REC in DVD mode	21

## **Before Requesting Service**

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

Correction		
Set POWER button to on.  Make sure power source is active.  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, 37)  Recording & Playback  TV program cannot be recorded  TV program cannot be recorded  **Otheck connections between DECK, external antenna, and TV.*  Check channel selections.  **Make sure your antenna system (CABLE or TV) is correctly set. (Channels [p. 18])  **Make sure cassette record tab is intact. (p. 6)  Timer recording cannot be performed  **Other control to be recorded  **Timer recording start/stop times correctly. (p. 24)  **Timer recording my 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  **Set VexTry selector to "VCR."  **Adjust TRACKING control in either direction. (p. 6)  **Try Head Cleaning. (p. 6)  **Set IV's Vertical Hold Control.  DECK cannot be controlled  **Make sure DECK power is on.  **Check Remote batteries.*  **Make sure Remote is in proper mode. (p. 28)  **Make sure Timer Recording is not in progress.  **Remote Control  DECK cannot be remote controlled  **Make sure DECK power is on.  **Make sure Timer Recording is not in progress.  **Remote Control  DECK cannot be remote controlled  **Make sure DECK power is on.  **Make sure Timer Recording is not in progress.  **Remote Control  **PROG buttons do not respond  **PROG buttons do not respond  **PROG functions are not available in COMPONENT Video Output and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10)  **Check Remote batteries (p. 4)  **PROG functions are not available in COMPONENT Video Output and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10)  **PROG functions are not available in COMPONENT Video Output and S-VIDEO OUT. Set TV to either RF IN OR THE PROG Functions are not available in Comp	Power	Correction
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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, 37)  **Recording & Playback**  TV program cannot be recorded  **Check connections between DECK, external antenna, and TV.*  **Check channel selections.**  **Make sure your antenna system (CABLE or TV) is correctly set. (Channels [p. 18])  **Make sure cassette record tab is intact. (p. 6)  **Timer recording cannot be performed  **Confirm that clock is set to current time and date.*  **Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded.  **Set recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored.  **Set ector or "VCR."  **Adjust TRACKING control in either direction. (p. 6)  **Ty Head Cleaning. (p. 6)  **Set TV's Vertical Hold Control.*  **DECK cannot be controlled  **DECK cannot be controlled  **Make sure DECK power is on.*  **Check Remote batteries.*  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure Remote is in proper mode. (p. 28)  **Make sure DECK power is on.*  **Make sure DECK power is on.*  **Make sure DECK power is on.*  **Make sure Semote is in VCR mode.*  **Make sure DECK power is on.*  **Make sure DECK power		
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Broadcast signal in TV or Playback mode. Turn the power back on. (pp. 23, 37)	Power turns itself off	. ' '
Recording & Playback  TV program cannot be recorded  **Orection**  **Check connections between DECK, external antenna, and TV.*  **Check channel selections.*  **Make sure your antenna system (CABLE or TV) is correctly set. (Channels [p. 18])  **Make sure cassette record tab is intact. (p. 6)  **Timer recording cannot be performed  **Timer recording cannot be performed  **Timer recording start/stop times correctly. (p. 24)  **Timer recording start/stop times correctly. (p. 24)  **Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored.  **Timer recording start/stop times correctly. (p. 24)  **Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored.  **Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (p. 16) or select LINE.  **Set VCR/TV selector to "VCR."  **Adjust TRACKING control in either direction. (p. 6)  **Try Head Cleaning. (p. 6)  **Set TV's Vertical Hold Control to MANUAL, then adjust.  **Deck cannot be controlled  **Deck cannot be controlled  **Make sure DECK power is on.*  **Check Remote batteries.*  **Make sure Remote is in proper mode.(p. 28)  **Make sure Timer Recording is not in progress.  **Remote Control**  **Correction**  **Packed sure DECK power is on.*  **Make sure DECK power is on.*  **Make sure Remote is in VCR mode.*  **Avoid any object blocking signal path.*  **Check Remote batteries. (p. 4)  **Exposing DECK remote sensor to direct fluorescent or outdoor light may cause signal interference.  **PROG buttons do not respond*  **PROG functions are not available in COMPONENT Video Output and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10)  **Check Remote batteries. (p. 4)		
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Make sure your antenna system (CABLE or TV) is correctly set. (Channels [p. 18])   Make sure cassette record tab is intact. (p. 6)    Timer recording cannot be performed   Confirm that clock is set to current time and date.     Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded.     Set recording start/stop times correctly. (p. 24)     Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored.    There is no playback picture, or the playback picture is noisy or contains streaks   Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (p. 16) or select LINE.     Set VCR/TV selector to "VCR."     Adjust TRACKING control in either direction. (p. 6)     Try Head Cleaning. (p. 6)     Set VCR/TV selector to "WCR."     Adjust TRACKING control to MANUAL, then adjust.     Set TV's Vertical Hold Control to MANUAL, then adjust.     Wake sure DECK power is on.     Check Remote batteries.     Make sure Renote is in proper mode. (p. 28)     Make sure Remote is in proper mode. (p. 28)     Make sure Remote is in VCR mode.     Awaid any object blocking signal path.     Check Remote batteries. (p. 4)     Exposing DECK remote sensor to direct fluorescent or outdoor light may cause signal interference.     PROG buttons do not respond     PROG functions are not available in COMPONENT     Video Output and S-VIDEO OUT. Set TV to either RF     No r VIDEO IN. (p. 10)     Check Remote batteries. (p. 4)     Check Remote		
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tuned to channel to be recorded.  Set recording start/stop times correctly. (p. 24)  Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored.  Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (p. 16) or select LINE.  Set VCR/TV selector to "VCR."  Adjust TRACKING control in either direction. (p. 6)  Try Head Cleaning. (p. 6)  Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control  DECK cannot be controlled  PECK cannot be controlled  • Make sure DECK power is on.  • Check Remote batteries.  • Make sure VCR LOCK is set to off. (p. 37)  • Make sure VCR LOCK is set to off. (p. 28)  • Make sure Timer Recording is not in progress.  Remote Control  Correction  • Make sure DECK power is on.  • Make sure DECK power is on.  • Aim Remote Control directly at remote sensor on DECK. (p. 9)  • Avoid any object blocking signal path.  • Check Remote batteries. (p. 4)  • Exposing DECK remote sensor to direct fluorescent or outdoor light may cause signal interference.  PROG buttons do not respond  PROG functions are not available in COMPONENT Video Output and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10)  • Check Remote batteries. (p. 4)		
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if a power interruption occurs before or during a Timer Recording, even after power is restored.  There is no playback picture, or the playback picture is noisy or contains streaks  **Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (p. 16) or select LINE.  **Set VCR/TV selector to "VCR."  **Adjust TRACKING control in either direction. (p. 6)  **Try Head Cleaning. (p. 6)  **Set TV's Vertical Hold Control to MANUAL, then adjust.  **DECK cannot be controlled  **Make sure DECK power is on.  **Check Remote batteries.**  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure Remote is in proper mode.(p. 28)  **Make sure Timer Recording is not in progress.  **Remote Control**  **DECK cannot be remote controlled  **Make sure DECK power is on.  **Make sure Timer Recording is not in progress.  **Remote Control**  **Deck Cannot be remote controlled  **Make sure DECK power is on.  **Make sure Remote is in VCR mode.  **Aim Remote Control directly at remote sensor on DECK. (p. 9)  **Avoid any object blocking signal path.  **Check Remote batteries. (p. 4)  **Exposing DECK remote sensor to direct fluorescent or outdoor light may cause signal interference.  **PROG functions are not available in COMPONENT Video Output and S-VIDEO IN. (p. 10)  **Check Remote batteries. (p. 4)		
Timer Recording, even after power is restored.  There is no playback picture, or the playback picture is noisy or contains streaks  **Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (p. 16) or select LINE.  **Set VCR/TV selector to "VCR."  **Adjust TRACKING control in either direction. (p. 6)  **Try Head Cleaning. (p. 6)  **Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control  **DECK cannot be controlled*  **Make sure DECK power is on.**  **Check Remote batteries.**  **Make sure VCR LOCK is set to off. (p. 37)  **Make sure Timer Recording is not in progress.*  **Remote Control**  **DECK cannot be remote controlled*  **Make sure DECK power is on.**  **Make sure Timer Recording is not in progress.*  **PROS buttons do not respond*  **PROG functions are not available in COMPONENT Video Output and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10)  **Check Remote batteries. (p. 4)  **PROG Functions are not available in COMPONENT Video Output and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10)  **Check Remote batteries. (p. 4)		
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Video Output and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10)  • Check Remote batteries. (p. 4)	PROG huttons do not respond	
IN or VIDEO IN. (p. 10) • Check Remote batteries. (p. 4)	I 1 100 buttons do not respond	
		IN or VIDEO IN. (p. 10)
Press VCR or DVD button for DVD/VCR mode. (p. 28)		
		Press VCR or DVD button for DVD/VCR mode. (p. 28)

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

Correction

Video CDs and CDs.

· This DECK cannot play discs other than DVDs,

• The disc may be dirty and require cleaning.

DVD/ Video CD/ CD

pressed...

Play fails to start even when PLAY is

	The disc may be diffy 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. 48)
Audio soundtrack and/or subtitle language is not the one selected at the initial settings	If the audio soundtrack and/or subtitle language selected at DVD initial settings does not exist on the disc, it will not be accessible.
No subtitles	Subtitles appear only when available on disc.     "OFF" is selected at the changing subtitle language. Select "ON" at the "Subtitle Languages" section (p. 40) to display the subtitles.
Alternative audio soundtrack (or subtitle) language cannot be selected	<ul> <li>Alternative language cannot be selected with discs which do not contain more than one language.</li> <li>For some discs, alternative language cannot be selected with the AUDIO or SUB TITLE button. Try selecting it from the DVD MENU if available.</li> </ul>
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. 41)
Miscellaneous	indicator on DECK lights up). (p. 41)  Correction
Miscellaneous Programs cannot be viewed on TV	
	Correction  Make sure TV is set to output of DECK. Check connections between DECK, external antenna, and TV. Set VCR/TV selector to "TV." (p. 21)
Programs cannot be viewed on TV	Make sure TV is set to output of DECK.     Check connections between DECK, external antenna, and TV.     Set VCR/TV selector to "TV." (p. 21)     Make sure proper signal source is selected.     Insert the cassette with window side up; record
Programs cannot be viewed on TV  Video cassette cannot be inserted  Video cassette ejects when a recording is started or the power is	Make sure TV is set to output of DECK.     Check connections between DECK,     external antenna, and TV.     Set VCR/TV selector to "TV." (p. 21)     Make sure proper signal source is selected.     Insert the cassette with window side up; record tab facing you.
Programs cannot be viewed on TV  Video cassette cannot be inserted  Video cassette ejects when a recording is started or the power is turned off for timer recording  In Stop mode, the motor (CYLINDER)	Make sure TV is set to output of DECK.     Check connections between DECK,     external antenna, and TV.     Set VCR/TV selector to "TV." (p. 21)     Make sure proper signal source is selected.     Insert the cassette with window side up; record tab facing you.      Make sure cassette record tab is intact. (p. 6)      To enable Quick play mechanism, the cylinder will rotate for about 3 minutes. This reduces response

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

### Servicenter List

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

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

#### **Accessory Purchases:**

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

Factory Servicenters Locations						
CALIFORNIA 6550 Katella Avenue Cypress, CA 90630  800 Dubuque Avenue S. San Francisco, CA 94080  3878 Ruffin Road Suite A San Diego, CA 92123	GEORGIA 8655 Roswell Road Suite 100 Atlanta, GA 30350  ILLINOIS 1709 North Randall Road Elgin, IL 60123  MASSACHUSETTS	MINNESOTA 7850-12th Avenue South Airport Business Center Bloomington, MN 55425  OHIO 2236 Waycross Road Civic Center Plaza Forest Park, OH 45240	TEXAS 13615 Welch Road Suite 101 Farmers Branch, TX 75244  WASHINGTON 20425-84th Avenue South Kent, WA 98032			
FLORIDA 3700 North 29th Avenue Suite 102 Hollywood, FL 33020	60 Glacier Drive Suite G Westwood, MA 02090	PENNSYLVANIA 2221 Cabot Blvd. West Suite B Langhorne, PA 19047				
			HAWAII 99-859 Iwaiwa Street Aiea, Hawaii 96701 Phone (808)488-1996 Fax (808)486-4369			

#### Service in Puerto Rico

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

As of Sep. 2001

## **Limited Warranty**

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America, One Panasonic Way Secaucus, New Jersey 07094 Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

#### PANASONIC/QUASAR Video Products Limited Warranty

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

PRODUCT	PARTS	LABOR	SERVICE	CONTACT NUMBER
CAMCORDER	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR -SIX (6) MONTHS	NINETY (90) DAYS NINETY (90) DAYS	Carry-In or Mail-In	1-800-211-PANA(7262)
DVD/VCR DECK	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail-In	1-800-211-PANA(7262)
DIGITAL STILL CAMERA	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR	NINETY (90) DAYS	Carry-In or Mail-In	1-800-272-7033
CAMERA	CCD IMAGE SENSOR -SIX (6) MONTHS	NINETY (90) DAYS		
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail-In	1-800-211-PANA(7262)
TV/VCR, TV/DVD	ONE (1) YEAR, EXCEPT CRT	NINETY (90) DAYS CRT - NINETY (90) DAYS	Carry-In: 21" CRT and Smaller	1-800-211-PANA(7262)
COMBINATION CRT-TWO (2) YEARS		In-Home or Carry-In: 22" CRT and Larger		
TV/HDR COMBINATION	ONE (1) YEAR, EXCEPT CRT CRT-TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS	In-Home or Carry-In	1-888-843-9788

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

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

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

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

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

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

#### **LIMITS AND EXCLUSIONS**

There are no express warranties except as listed above.

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

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary, from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Department at the Panasonic Consumer Electronics Company address above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER. warvid 02/ 12/ 2001

## Spanish Quick Use Guide/ Guía para rápida consulta

#### 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).
- 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

- 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.



1

CANCELAR: STOP

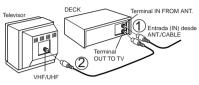
Al inicio, el idioma de la pantalla está fijado a inglés.

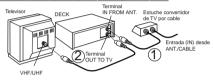
Para cambiar el idioma consulte la página 18.

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.





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

> 9/29/2002 DOM 2:20PM HORA VERAN I EGA: ACT CANAL FIJADO : CA 10 FIJACION AUTOMATICA COMPLETO

Si "Auto clock set is incomplete" aparece, coloque manualmente el tiempo, vealo abajo.

FIJACION AUTOMATICA DEL RELOJ ES INCOMPLETO POR FAVOR FIJE EL RELOJ CON LA TECLA ACTION

#### 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.



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



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

#### 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".
- **?** 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.



 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.



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.



#### Presione ▲▼

para seleccionar un número que no está usando para ingresar mas programas y presione SET

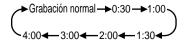
presione SET para ajustar. Luego repita el paso 2.

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.



## Spanish Quick Use Guide/ Guía para rápida consulta

#### Operaciones básicas del DVD

◆ Presione POWER en el control remoto o el aparato.

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

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 PAUSĒ/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.

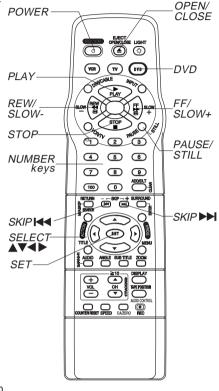
La imagen avanza un cuadro cada vez que presiona la tecla.

(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)



# Guía para rápid

## 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

V
Información seleccionada de del DECK

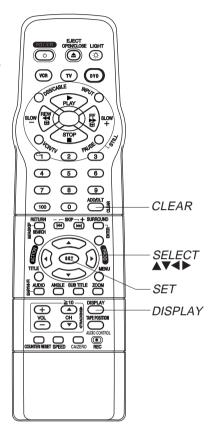
V
Pantalla normal

- 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*.







## Spanish Quick Use Guide/ Guía para rápida consulta

#### Fijaciones iniciales

- 1 Presione DVD para seleccionar el mode DVD.
- **Presione ACTION en el modo de parada** para visualizar MENU.
- 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.

- Presione ▲▼ para seleccionar el artículo deseado. Presione SET.
- Volver a visualizar el menú de DVD para continuar el ajuste.

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

## Selección de IDIOMAS DEL DISCO [DVD solamente]

#### Seleccione "AUDIO"

(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)

Cambio del idioma de la pista de

las fijaciones iniciales se puede cambiar por otro

El idioma de la pista de sonido seleccionado al hacer

sonido [DVD solamente]

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.





#### Presione SUBTITLE

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



idioma diferente, si éste se encuentra disponible.

1 Soniboli 2012

Presione AUDIO durante la reproducción para visualizar la pantalla

AUDIO.



Presione ▲▼ para seleccionar el idioma deseado.

**Presione** ► (o ◄) para aiustar.

Presione ▲▼ para seleccionar "ACTIVO" o "INACTIVO."



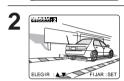
**Presione** ▲▼ para seleccionar idioma.

## Visión desde otro ángulo [DVD solamente]

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

1 PRITE.

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



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.

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



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

Presione SET.

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

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



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.

DVD MENU

1. SUBTITLE

2. AUDIO

3. ANGLE

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

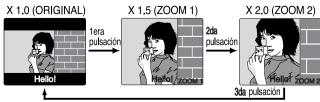
Presione SET.

#### 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.



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