



Omnivision **MIS**

Panasonic®

DVD/VCR DECK Operating Instructions

Model No. **PV-D4741**



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.)

LSQT0452A

Initial Setup
(Connection)

Basic
Operation

VCR
Operation

DVD
Operation

For Your
Information

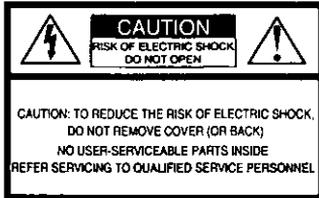
Safety Precautions/Mesures de sécurité

WARNING: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive.

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



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

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



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

CAUTION:

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

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

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

DO NOT OPEN COVERS AND DO NOT REPAIR YOUR SELF, REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTION:

LASER RADIATION
WHEN OPEN DO NOT
STARE INTO BEAM.

ATTENTION:

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

(Inside of product)

FCC NOTE:

This equipment has been tested and found to comply with part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when operated in a residential environment. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

If necessary, consult the dealer or an experienced radio/TV technician for help. The user may find the booklet, "Something About Interference" available from FCC local regional offices helpful.

FCC Caution:

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

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

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

Region Management Information:

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

The Region number
for this DECK is 1.



Before Using

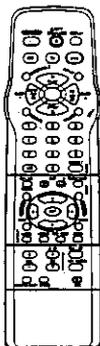
Congratulations

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-D4741** _____
- Serial No. _____

Accessories

- Remote Control LSSQ0304
- Batteries 2 "AA"



- RF Coaxial Cable VJAS0196



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

Loading the Batteries

- 1) Open cover.
- 2) Insert batteries as marked.
- 3) Close cover.

Battery replacement caution

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

Disc formats supported by this DECK

DECK can play back discs bearing any of the following marks:



DVD

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



Video CD

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



CD

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

Discs which cannot be played

- DVD with Region No. other than "1" or "ALL"
- DVD of PAL system
- DVD-R/DVD-RAM
- DVD-ROM
- CD-ROM
- CDV
- CD-G
- CD-RW

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

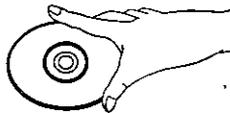
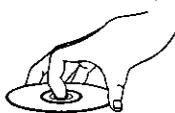


is a registered trademark.

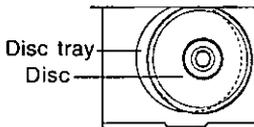
Disc Handling

Handling precautions

- Only hold disc by edges as shown below. Fingerprints, dirt and scratches can cause skipping and distortion.
- Do not write on label side of disc.
- Never use record cleaning sprays, benzene, 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 Service Center or authorized Service Center (see p. 52).

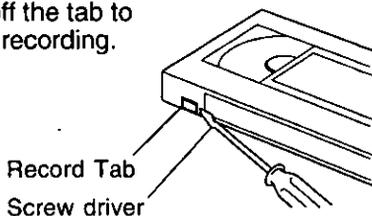
Cleaning DECK

Use a soft cloth or dusting attachment of a vacuum cleaner to remove dust from the ventilation holes on the back sides and bottom of the cabinet.

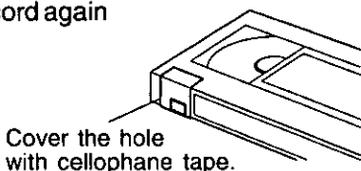
Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. We recommend using a nonabrasive, antistatic cleaner and polisher.

Prevent Accidental Tape Erasure

Break off the tab to prevent recording.



To record again



Record/ Playback Time

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

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

Features for a Quality Picture (VCR)

Digital Auto Picture

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

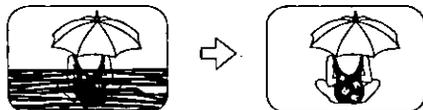
Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control (to reduce picture noise)

Use during Playback and Slow Motion mode to reduce picture noise.

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



V-Lock Control (to reduce picture jitter)

In Still mode, CH (TRACKING) ▲/▼ buttons operate as a V-Lock control.

Specifications

Power Source:	120 V AC, 60 Hz
Power Consumption:	<u>Power On:</u> Approx. 32 watts, <u>Power Off:</u> Approx. 4 watts
Video Signal:	EIA Standard NTSC color
Video Recording System:	4 rotary heads helical scanning system
Audio Track:	1 track (Normal), 2 channel (Hi-Fi Audio Sound)
Tuner:	
Broadcast Channels:	VHF 2-13, UHF 14-69
CABLE Channels:	Midband A through I (14-22), Superband J through W (23-36) Hyperband AA-EEE (37-64), Lowband A-5-A-1 (95-99) Special CABLE channel 5A (01), Ultraband 65-94, 100-125
Input/Output Terminal:	Audio/Video Line Input/Output, RF Input/Output
Input Terminal:	Audio/Video Line Input (Front)
Output Terminal:	S-VHS Output (DVD only), Component Video Output (DVD only) Audio Output 2 (L), (R)
Operating Temperature:	5 °C-40 °C (41 °F-104 °F)
Operating Humidity:	10 %-75 %
Weight:	6.9 kg (15.2 lbs).
Dimensions:	430 (W) x 118 (H) x 364 (D) mm 16-15/16" (W) x 4-5/8" (H) x 14-5/16" (D)
Discs Played	
(1) DVD-VIDEO Disc (one layer per side)	5" (12 cm) single-sided single-layer 5" (12 cm) single-sided double-layer 5" (12 cm) double-sided double-layer 3" (8 cm) single-sided single-layer 3" (8 cm) single-sided double-layer 3" (8 cm) double-sided double-layer
(2) Compact Disc (CD-DA, VIDEO CD)	5" (12 cm) disc 3" (8 cm) disc
Digital Audio Output:	Digital Optical Connector
Pickup:	Wave length: 655 nm (DVD), 790 nm (Video CD/CD) Laser power: CLASS II

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

Definition of Terms (DVD)

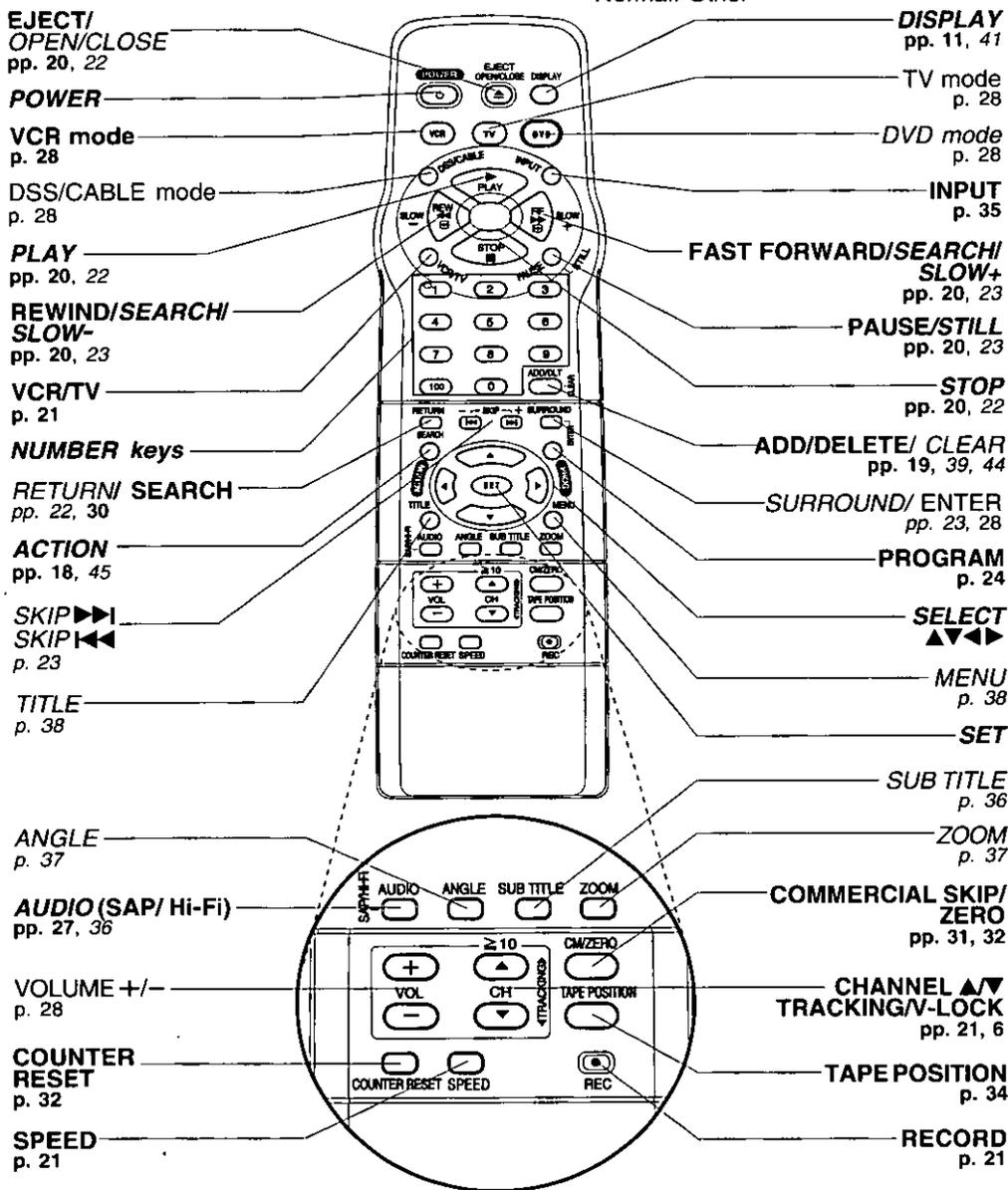
Angle:	Some DVD discs feature scenes simultaneously shot from different angles. The ANGLE button can be used to view the scene from different angles. (ANGLE Indicator lights on DECK when a scene recorded at different angles is detected.)
Chapter Number:	Titles are subdivided into numbered sections. You can quickly search for a favorite scene using these numbers.
DVD:	A high-density optical disc on which high-quality pictures and sound have been digitally recorded. DVD incorporates new video compression technology (MPEG II) and high-density recording technology which allow entire movies to be recorded with incredible playback quality.
Playback Control:	With Video CD (version 2.0), scenes or information may be selected for viewing or listening from an interactive menu that appears on the TV screen.
Subtitles:	Written dialogue which appears at the bottom of the screen.
Time Number:	The elapsed play time from the start of a disc or title. Use to quickly find scenes. (May not work with some discs.)
Title Number:	For DVD discs with two or more titles, the title is numbered as title 1, title 2, etc.
Track Number:	Numbers assigned to tracks on Video CDs and CDs to allow specific tracks to be quickly located.
Video CD:	CD containing picture and sound with same quality level as video tape. This DECK also supports Video CDs with playback control (version 2.0).

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

Location of Controls

Remote Control

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



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 tape opens or closes.

Front View of DECK

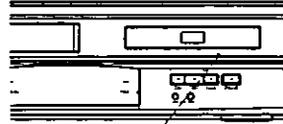
Bold: VCR Function

Italic: DVD Function

Bold Italic: VCR and DVD Functions

If the disc cannot be removed...

First, unplug DECK. Then, prepare a rigid wire (e.g. an extended paper clip) and, applying moderate force, insert it straight into the hole at the base of the tray. The tray will eject a little. Now, pull the tray all the way out and remove the disc.



Over 2 inches

STOP/EJECT

p. 20

FAST FORWARD/SEARCH

p. 20

PLAY

p. 20

REWIND/SEARCH

p. 20

POWER

Cassette Compartment

Disc Tray

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

Multi Function
Display
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Remote
Sensor

OPEN/CLOSE
p. 22

PAUSE
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PLAY
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SKIP  
SKIP  
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**CHANNEL ▲/▼
TRACKING/V-LOCK**
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VCR/TV
p. 21

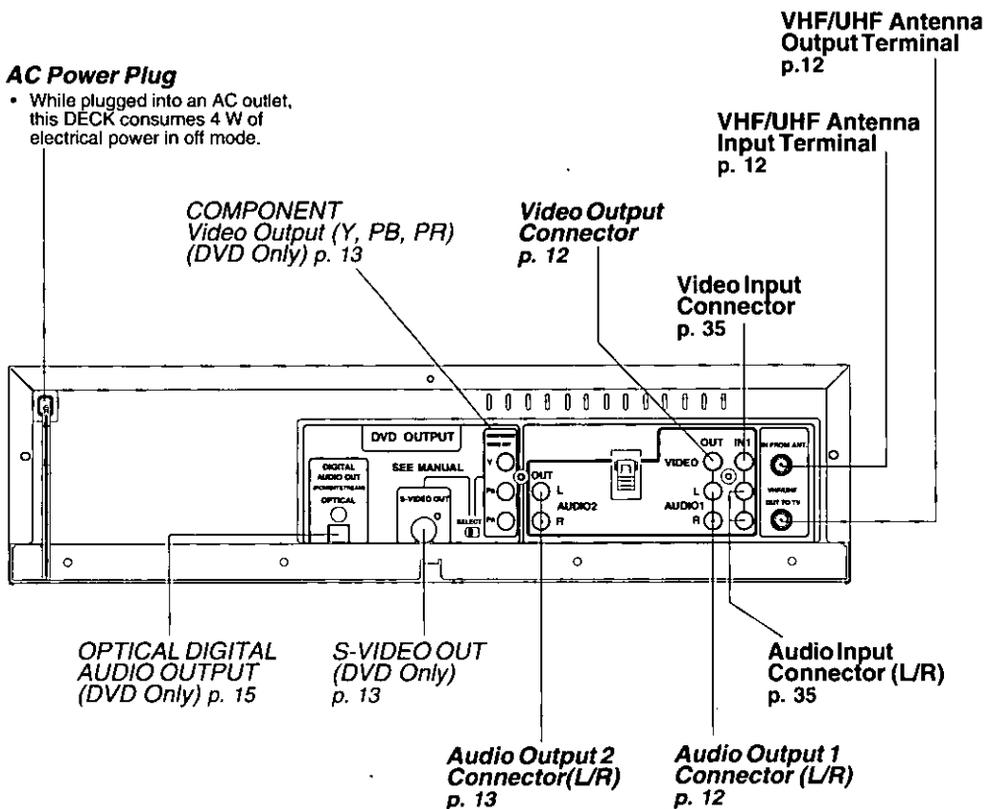
REC
p. 21

STOP
p. 22

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	<i>COMPONENT Video Output</i>	<i>S-VIDEO OUT</i>
VCR	YES	N/A	N/A
<i>DVD</i>	YES	YES ← Swichable → YES	

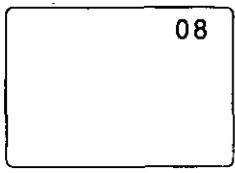
Note

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

Displays (On Screen & Multi Function)

Initial Setup
(Connection)

On Screen Displays (VCR)



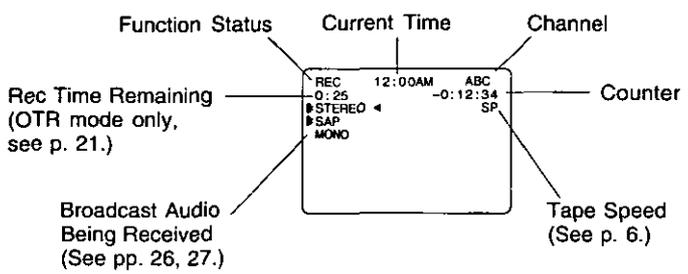
When a function button is pressed, e.g. PLAY, or you change channels, a 4 second display appears first in large and then small characters.

Blank Tape/ No Video Signal Indication

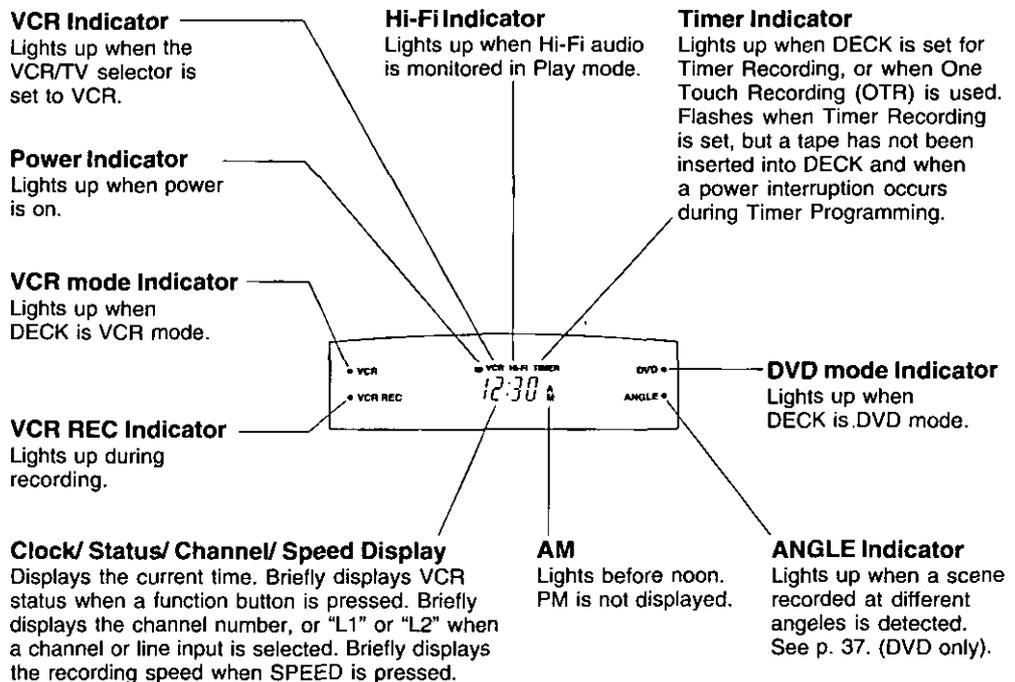
Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with Weak Signal Display Feature (p. 33) set to OFF, the TV screen will turn solid blue.

To display or remove overlay at right,
--> press DISPLAY.

VCR Status & Clock Display



Multi Function Display

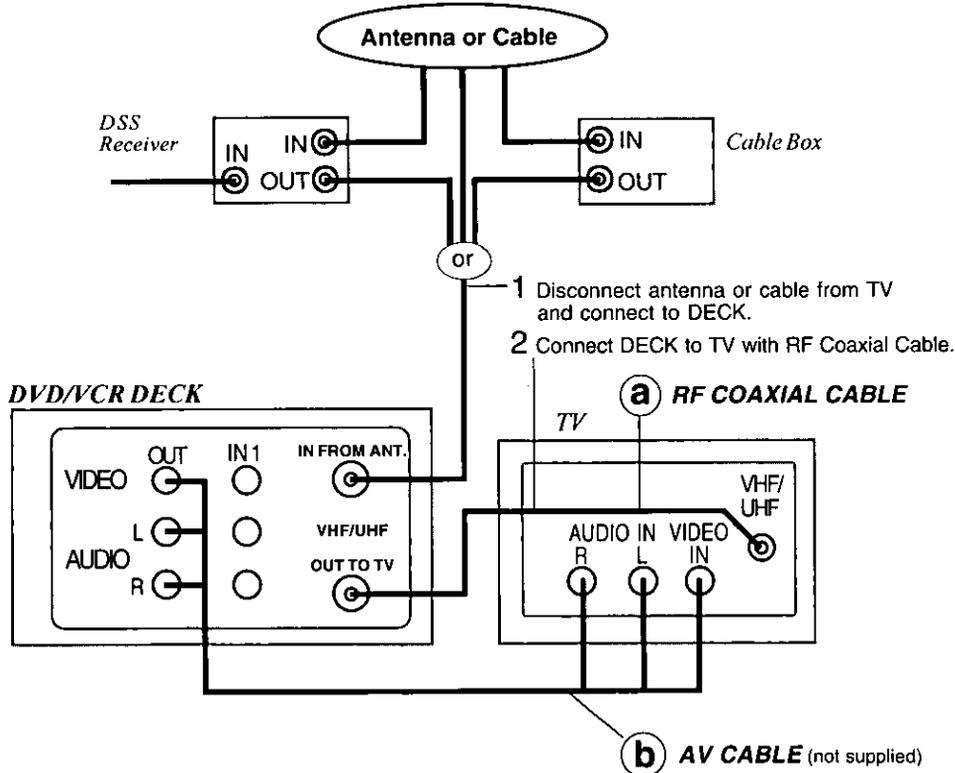


Connections

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.

■ DSS Receiver → DECK → TV ■ DECK → TV ■ Cable Box → DECK → TV



WARNING

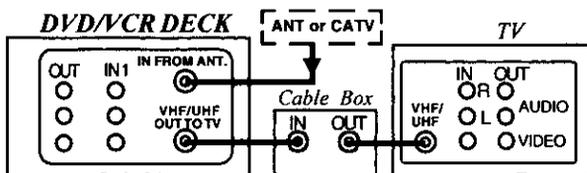
When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.

Note to CABLE system installer

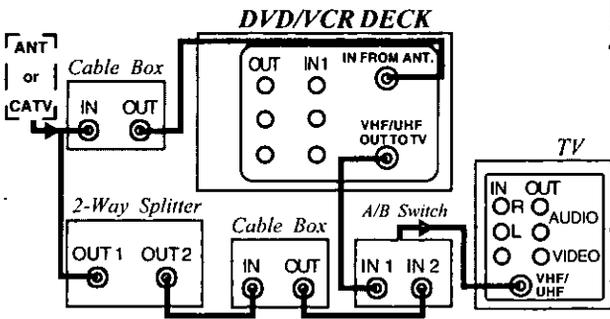
This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of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

Other Connections

DECK → Cable Box → TV



Connect With Two Cable Boxes



You Can

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

You Cannot

- record scrambled channels.

You Can

- record and view both scrambled and unscrambled channels if additional equipment is added. This connection requires: two converter boxes, an A/B switch, and a 2-way splitter.

You Cannot

- view channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it on the Cable Box.

Initial Setup
(Connection)

Connections For DVD Only

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

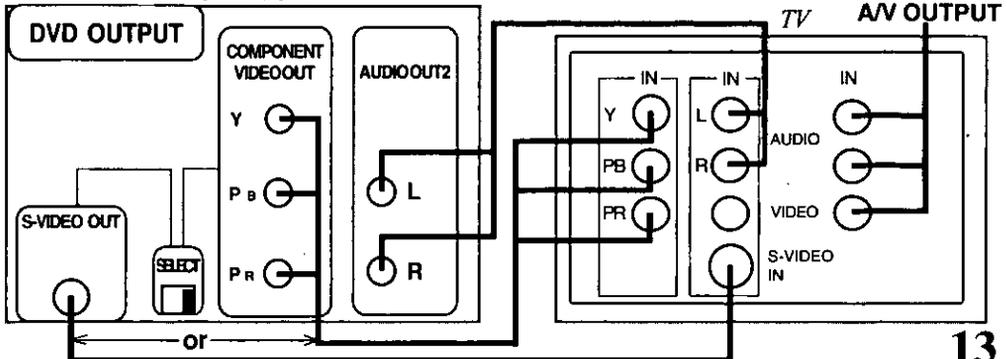
Note • The picture will not be displayed if the SELECT SW is not set to the correct video output.

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

Notes • You can watch DVDs through the S-VIDEO or COMPONENT VIDEO, VHF/UHF OUT TO TV, and VIDEO OUT connections to your TV. The VCR and TUNER pictures are available only from the VIDEO OUT and VHF/UHF OUT TO TV connections to your TV.

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

DVD/VCR DECK



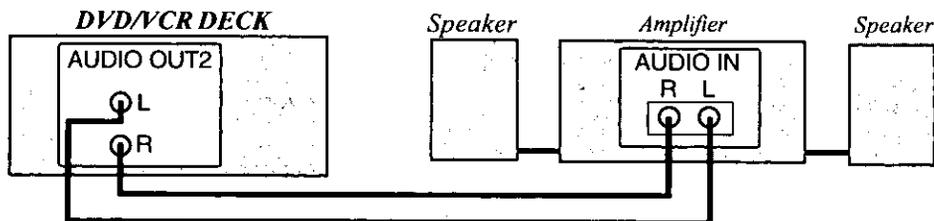
Connections (continued)

Audio Connections

✓ Ready Checklist

- Turn down the volume, then turn DECK, as well as other equipment to be connected, off before proceeding with connection.
- Do not block ventilation holes of any of the equipment and arrange them so that air can circulate freely.
- Read through the instructions before connecting other equipment.
- Ensure that you observe the color coding when connecting audio and video cables.

■ DECK → Amplifier → Speaker



Enjoying digital audio output from the digital audio output connector

Notes on audio output from the optical digital audio output connector

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

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

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

For your reference:

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

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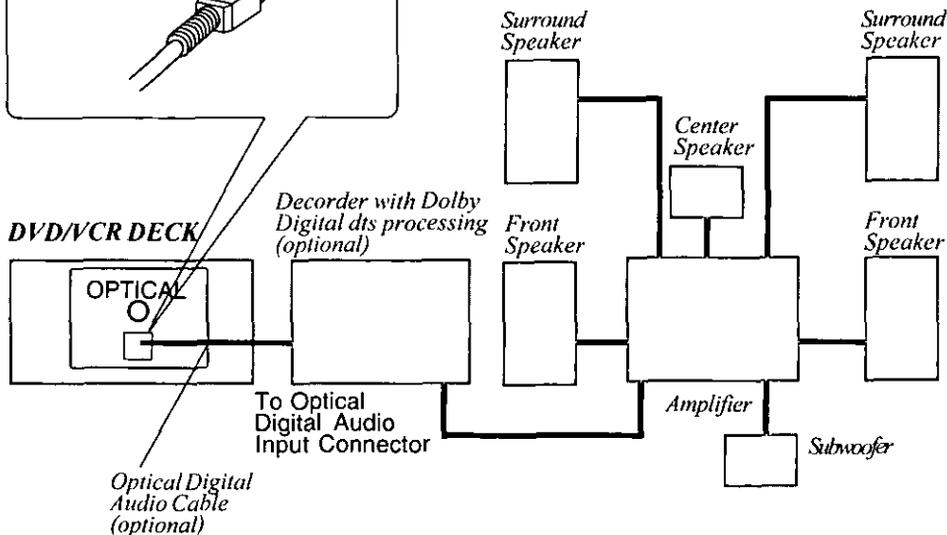
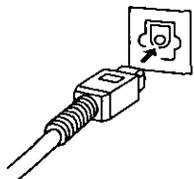
■ DECK → Decoder with Dolby Digital → Amplifier → Speaker or

dts (digital theater systems)

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

Notes on connecting an optical digital audio cable (optional)

- Firmly connect the cable to the connector.



Caution for optical digital audio output connector:

- When connecting an amplifier (with an optical digital input connector) which does not contain the Dolby Digital or dts decoder, be sure to select "OFF" at "Dolby Digital" and "OFF" at "dts" of the Settings for DVD Operation "AUDIO OUTPUT" (see p. 46). Otherwise, any attempt to play DVDs may cause such a high level of noise that it may be harmful to your ears and damage your speakers.
- When a dts decoder is connected, please select "Bitstream" at "dts" of the Settings for DVD Operation "AUDIO OUTPUT". If "OFF" is selected, there will be no sound. (See p. 46).
- Video CDs and CDs can be played as normal.

Note:

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

Initial Setup for Basic Connections

Before doing Initial Setup

- 1 Turn TV on.
- 2 See connections (a) RF Coaxial Cable Connection and (b) AV Cable Connection on pp. 12, 13.
<RF Coaxial Cable Connection>
Set TV to channel 3.
<AV Cable Connection>
Set TV to VIDEO.
- 3 [DECK-TV]
 - Go to "How to do Initial Setup." (See below.)[Cable Box-DECK-TV], [DSS-DECK-TV]
 - Turn on Cable Box and set it to your Public Broadcasting Station (PBS) channel in your time zone.
 - If you use DSS Receiver, it must be turned off.

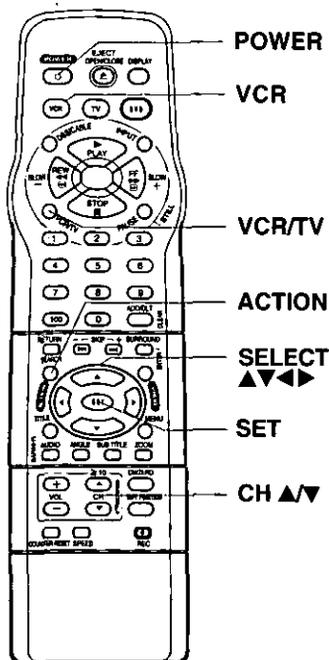
How to do Initial Setup

- 1 Press VCR button* on the remote for VCR mode.
- 2 Press POWER to turn DECK on.
- 3

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

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

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



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

4

CHANNEL/CLOCK AUTO SET

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

PLEASE PRESS CH UP KEY

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



5

Settings are performed automatically.

Case 1 Setup complete...

```
1/ 4/2001 THR 12:00PM
      DST:ON
SETTING : CH 02
AUTO CLOCK SET
COMPLETED
END : CH UP KEY
```

Press **CH ▲**
to exit.

Case 2 Setup Incomplete...

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

Press **ACTION**
to display Manual
Clock Set screen.

```
1/ 4/2001 SET CLOCK
      DST:ON
SELECT MONTH
SELECT : ▲ ▼
SET : SET
EXIT : ACTION
```

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

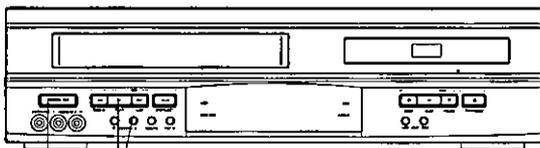
```
SET CLOCK
1/ 4/2001 THU 12:00PM
      DST:ON
SET COMPLETED
SET : SET BACK : ◀
START : ACTION
```

Press **ACTION** twice
to start Clock
and exit.

Reset All Memory Functions

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

- Make sure a tape is not inserted in DECK.



1 Turn DECK
Power on.

2 Press and hold both **PLAY** and
CHANNEL ▲ on DECK
for more than 5 seconds.

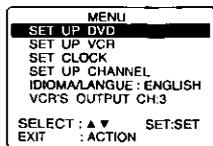
- The power shuts off.
- Please ignore "NO CASSETTE" warning.

3 Do "Initial Setup" on p. 16.

Initial Setup
(Connection)

Reset Language, Channels, Clock

1.



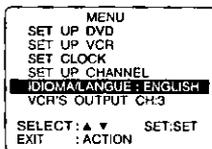
Press **ACTION*** to display MENU.

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

2.

Language

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



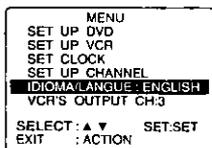
- 2) Press **SET** repeatedly.



For Spanish



For French

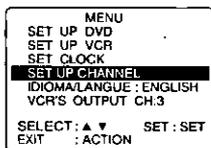


For English

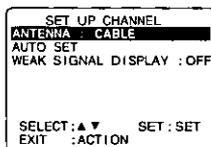
- 3) Press **ACTION** to exit.

Channels

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

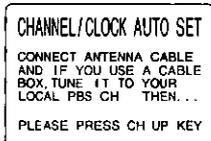


- 2) Press **▲▼** to select "ANTENNA," then press **SET** to set your antenna system ("TV" or "CABLE.")



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

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



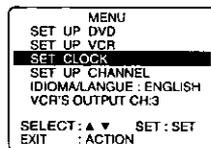
(This screen appears only when auto clock is set.)

- 4) Press **CH ▲**.

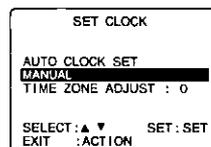
- After Channel Auto Set is finished, Clock Auto Set will be performed.

Clock

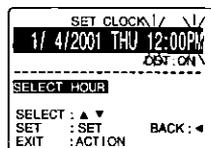
- 1) Press **▲▼** to select "SET CLOCK," and press **SET**.



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



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



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

- 4) Press **ACTION** twice to start Clock and exit this mode.

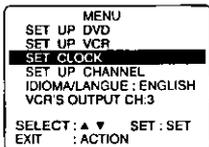
VCR's Output Channel

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

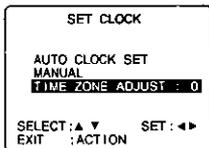
Time Zone Adjust

(Only when Auto Clock is set.)

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



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



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

- 3) Press **ACTION**.

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

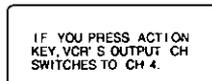
- "TIME ZONE ADJUST" returns to "0" if clock is set manually.

VCR's Output Channel

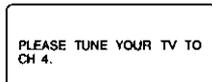
- 1) Press **▲▼** to select "VCR'S OUTPUT CH.," and press **SET**.



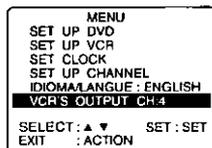
- 2) Press **SET**.



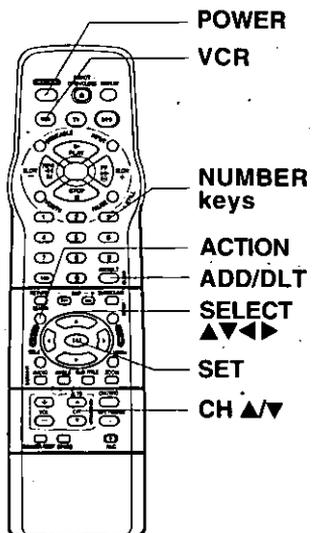
- 3) Press **ACTION**.



↓ After 3 seconds



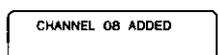
- To Make Corrections, repeat steps 1) ~ 3).



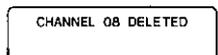
Basic Operation

Add or Delete a Channel

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



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



DST (Daylight Saving Time)

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

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

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

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

Playback/ Record on a Tape

✓ Ready Checklist

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

Playback a Tape

1 Insert a tape.

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

2 Press PLAY* to play a tape.

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

Special Features During Play

■ Forward/Reverse Scene Search

- > Press FF/SLOW+ or REW/SLOW-.
- > Press again or PLAY to release.

■ Still (Freeze) Picture

- > Press PAUSE/STILL.
- > Press PLAY to release.

■ Frame by Frame Picture

- > Press PAUSE/STILL in Still mode.
- > Press PLAY to release.

■ Slow Motion Picture

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

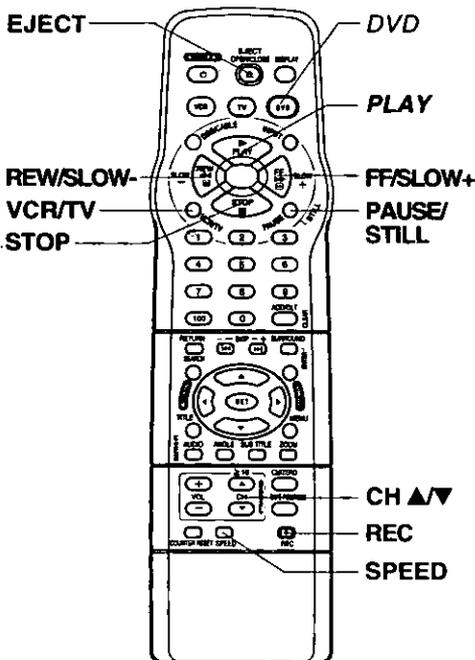
Notes

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

3 Press STOP to stop a tape.

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

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



Playback using DECK buttons

- 2 Press PLAY. 1 Insert a tape.



- Press STOP/EJECT to stop and/ or eject a tape:

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

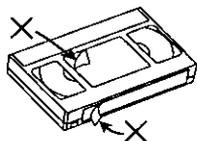
Record on a Tape

- 1 Insert a tape with a record tab (p. 6).**
 - DECK power comes on.
The VCR mode and "VCR" indicator light up on Multi Function Display.
- 2 Press CH▲▼, or NUMBER keys** to select the channel.
 - For "LINE" input, see p. 35.
 - If channels is over 100, press 100 key then press the remaining 2 digits.
- 3 Press SPEED** to select the record speed (p. 6).
SP = Standard Play LP = Long Play
SLP = Super Long Play
 - Speed appears on-screen and on Multi Function Display.
- 4 Press REC** to start recording.
(The VCR REC indicator lights up on Multi Function Display).
 - To edit out unwanted scenes, press PAUSE/STILL to pause, and again to resume recording.
 - You cannot view another channel during recording.
- 5 Press STOP** to stop recording.

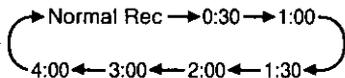
This video recorder, equipped with HQ (High Quality) system, is compatible with existing VHS equipment. Only use tapes with the **VHS** mark. Only tapes tested and inspected for use in 2, 4, 6, and 8 hour machines are recommended.

Note

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



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



- **Record one station, watch another,**
--> press VCR/TV
(“VCR” goes out on Multi Function Display),
--> select channels at TV (recording continues).

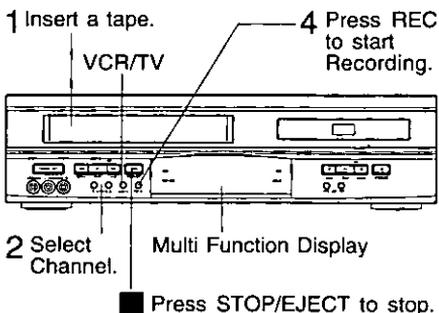
- **Select channels at DECK,**
--> press VCR/TV
(“VCR” lights up on Multi Function Display),
--> select channels at DECK.

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

Notes

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

Record using DECK buttons



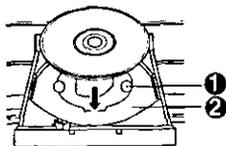
Basic DVD Operation

✓ 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.

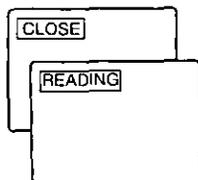
- 1 Press **POWER*** on the remote or DECK.
- 2 Press **DVD** to select DVD mode.
 - If a disc is already inserted, go to step 4. (Depending on the disc, playback may start automatically.)

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



- Hold disc by its edges only (p. 7) with printed side up and use guides to place into tray.
- Use ① 3"(8 cm) or ② 5" (12 cm) disc.

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



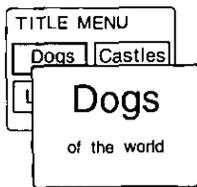
- You may also close tray by pressing **OPEN/CLOSE**.
- Data reading time differs with each disc.

<Example>

TITLE MENU	
Dogs	Castles
Lovers	Birds

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

- 5 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.

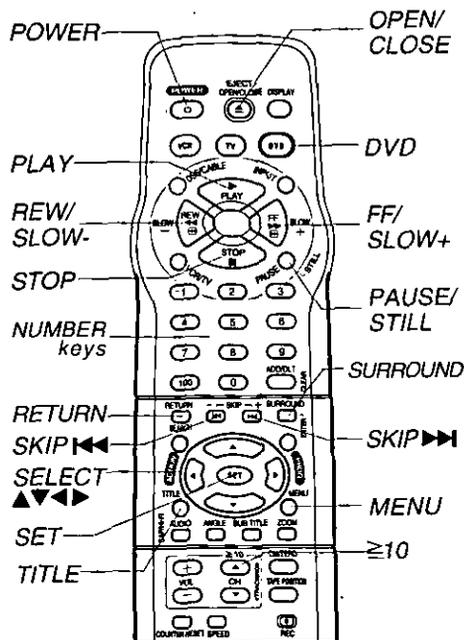
- SKIP function not available with all discs. Please refer to disc jacket for operation information.

To return to menu (play stops)

Press **TITLE**, **MENU**, or **RETURN**. (DVD)
Press **RETURN**. (Video CD)

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

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



Operation using DECK buttons

3.7 Press **OPEN/CLOSE**.

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



1 Press **POWER**

6 Press **STOP**.

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

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

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

■ Forward/Reverse Scene Search

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

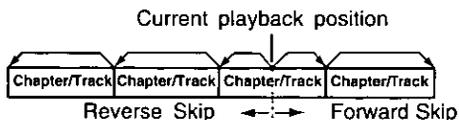
Press **PLAY** to release.

- Starting forward/reverse search during play started from menu on Video CDs may recall menu.
- Search speed, slow at first, increases with each additional press of the button up to 5 levels.

■ Forward/Reverse Chapter/Track Skip

Press **SKIP ►►** or **◄◄ SKIP** during play. Each press **SKIPs** a chapter (DVD) or track (Video CD/CD).

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



■ Still Picture or Pause

Press **PAUSE/STILL** during play.

Press **PLAY** to release.

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

■ Frame by Frame Picture

(DVD/Video CD)

Press **PAUSE/STILL** in still mode.

Press **PLAY** to release.

- Each press advances picture one frame.
- Hold button down for consecutive frame advance.
- Whether pictures are advanced by "FRAME" or "FIELD" is selected automatically. (See p. 47)

■ Slow Motion Picture (DVD/Video CD)

Press **FF/SLOW+** or **REW/SLOW-** in still mode.

Press **PLAY** to release.

- Slow motion speed, slow at first, is increased with each additional press of the button up to 5 levels.
- Reverse slow motion is not available for Video CDs.
- When  appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by DECK or the disc.

Surround Sound System

SURROUND ON

SURROUND OFF

Press **SURROUND** to set Surround sound.
To cancel, press **SURROUND**.

Notes

- Surround sound effects is available in DVD mode only.

Resume Function

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

Press **PLAY** to resume play from this point.

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

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

Auto-Power Off Function

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

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

1. Do steps 1-4 (previous page).
When menu appears, press **STOP**.
2. Press **NUMBER** keys to select desired track (play begins).
 - Check disc for track numbers.
 - Press "1" to start at beginning of disc.

To Resume Menu use,

Press **STOP** and press **PLAY**, then MENU. Now, go to step 5 (previous page).

Notes

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

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.

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



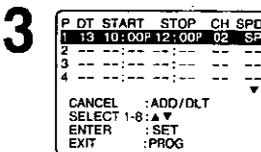
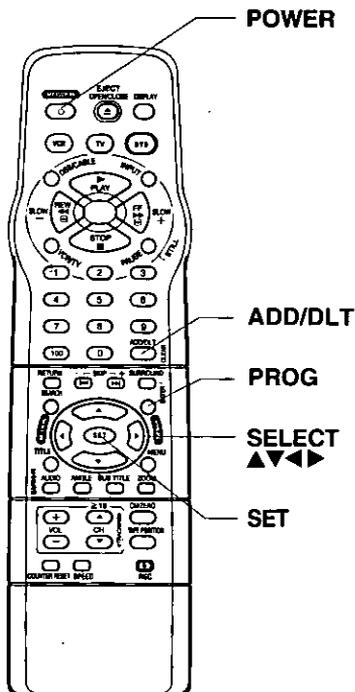
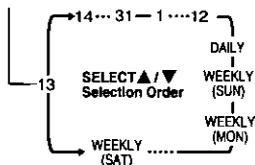
1) To set record DATE, press ▲▼ to select: 1-31= one time, or DAILY= MON~ FRI, or WEEKLY= same time each week and press SET.

• See selection order left.

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

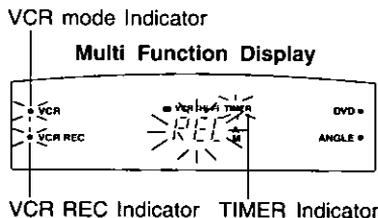
Press **PROG** to end programming.

Example
Today



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

Or
Press **PROG** to exit.



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

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

Review, Replace or Clear Program Contents:

(Recording is not in progress)

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

P	DT	START	STOP	CH	SPD
1	9	00P	10:00P	02	SP
2	8	10:00P	12:00P	02	SP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L1	LP

CANCEL : ADD/HLT
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.

- 3** To Replace program...

DATE /	START	STOP	CH
7 SUN	9:00A	12:00A	08

TODAY'S SP

SELECT START DATE

SELECT : ▲▼
SET : SET BACK : ◀
END : PROG

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

or

To Clear program...

P	DT	START	STOP	CH	SPD
1	9	00P	10:00P	02	SP
2	8	10:00P	12:00P	02	SP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L1	LP

CANCEL : ADD/HLT
SELECT 1-8 : ▲▼
ENTER : SET
EXIT : PROG

Press **ADD/HLT**.

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

Notes

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

Important notes when using DSS Receiver

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

MTS Broadcast/VHS Hi-Fi Stereo System

Connection

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

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

Receivable Broadcast Types

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

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

To display the broadcast signal being received, --> **press DISPLAY***.

MTS Stereo and SAP broadcast

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

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

MTS Stereo broadcast

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

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

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

SAP broadcast

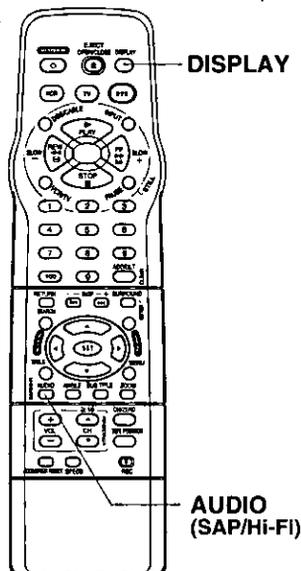
Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.

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

MONO broadcast

Normal monaural sound broadcast.

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



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

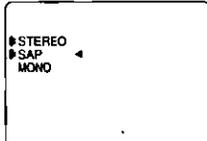
Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

Audio Mode for Recording

1 Press AUDIO
to display audio mode.

(Display disappears after 5 seconds.)

2 **Press AUDIO repeatedly**
to select desired mode.



STEREO
SAP
MONO

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

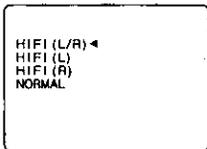
3 Do a recording.
See p. 21.

Audio Mode for Playback

1 Start playback.
See p. 20.

2 Press AUDIO
to display audio mode.

3 **Press AUDIO repeatedly**
to select desired mode.



HIFI (L/R)
HIFI (L)
HIFI (R)
NORMAL

- Arrow indicates selection.

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

Notes

- Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback in monaural sound.
- To listen to Hi-Fi stereo playback, the DECK AUDIO (L/R) jacks must be connected to a stereo TV or an external stereo amplifier and speakers. (See pp. 12, 14, 15.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

Multi-Brand Control Feature

Multi-Brand Control Setup

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

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

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

- Setup for Cable or DSS control,
-->hold down DSS/CABLE button,
-->enter code with NUMBER keys.
- If code number is 100 or greater,
-->e.g., press 1 - 0 - 2 for 102.

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

Notes

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

Using Multi-Brand Control

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

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

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

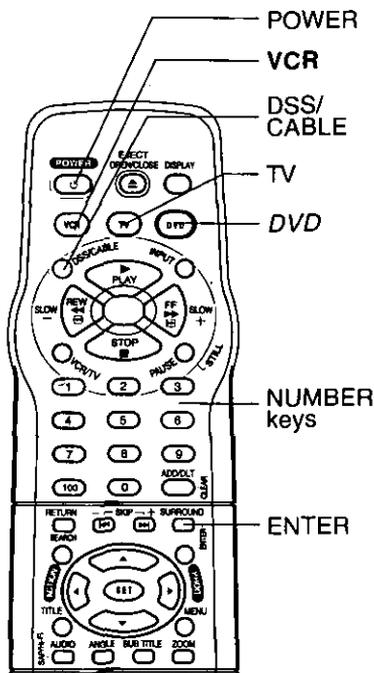
*Bold: VCR Function

Italic: DVD Function

Bold Italic: VCR and DVD Functions

Notes

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



TV Brand Code Numbers

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

Cable Box Brand Code Numbers

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

DSS Brand Code Numbers

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

Important Notes

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

Tape Operation

Search System

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

Index Search

1

```

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

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

- To calculate number, see below.

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

2

```

INDEX SEARCH
FORWARD SEARCH : FF
REVERSE SEARCH : REW
  
```

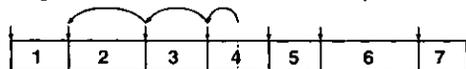
Play begins at search end. To search forward or back 1 index, **press FF/SLOW+** or **REW/SLOW-** while screen left is displayed (10 sec.).

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

To Calculate Index Number

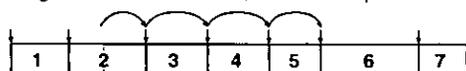
Example 1:

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



Example 2:

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



NOTE: ↓ indicates start points of each recording.

Note

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

Program End Search

Locates end point of recording for continuity.

1

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

2

```

PROGRAM END SEARCH
SEARCH START : FF
EXIT :SEARCH
  
```

Press **FF/SLOW+** to start **PROGRAM END SEARCH**.

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

Examples of Program End Search.

Fig. 1

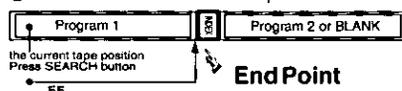


Fig. 2

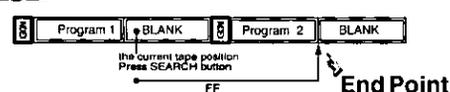
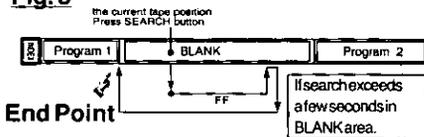


Fig. 3



Upon locating end point,

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

Note

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

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

Auto Operation Functions

■ Auto Play

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

■ Auto Rewind

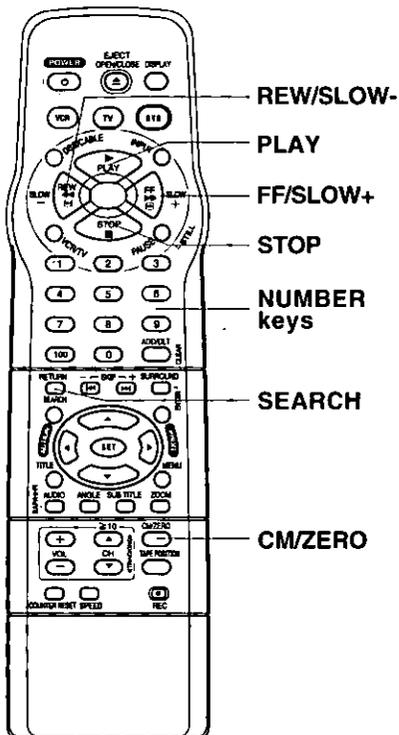
Play
Manual Record } -->Tape end -->Rewind
Fast Forward }

■ Play Auto Eject

(Repeat Play must be off)

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

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

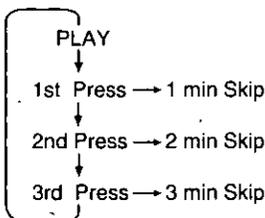


Commercial Skip

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

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

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



- No indication appears on-screen.

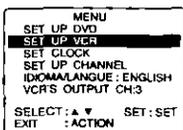
Tape Operation (continued)

Repeat Play

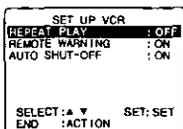
Set to playback a recording over and over.

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

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



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



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

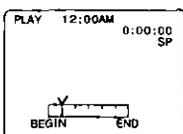
4 Press **ACTION** twice to return to normal screen.

Zero Search

To quickly return to a specified tape location.

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

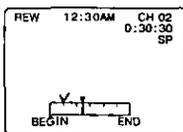
2 Press **COUNTER RESET** at desired position to reset to "0:00:00".



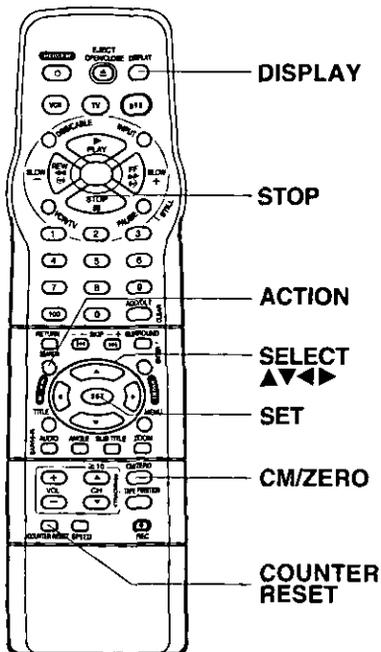
3 Continue to record, playback etc.

4 Press **STOP**.

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



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

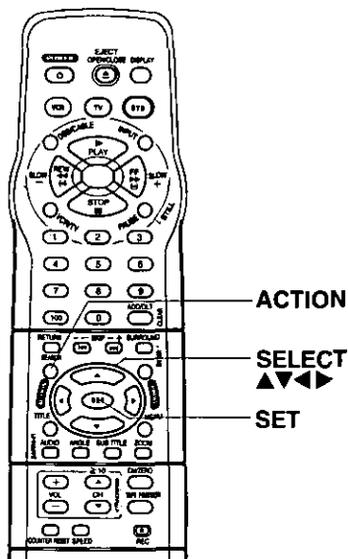


Note

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

Special VCR Features

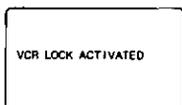
Important: If a remote control does not work when pressed, press the VCR button on the remote and try the button again.



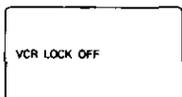
VCR Lock Feature

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

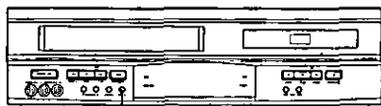
To turn on, hold down **REC** on DECK in Stop mode with no tape inserted for 7 seconds. (Please ignore "NO CASSETTE" warning.)



To turn off, repeat above.



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

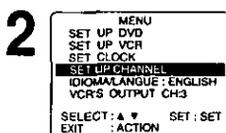


REC

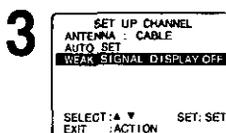
Weak Signal Display Feature

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

1 Press ACTION to display MENU.



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



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

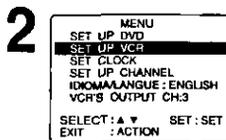
- ON: Picture is displayed regardless of signal condition, and may not always be clearly visible.
- OFF: Screen turns solid blue when signal is weak or non-existent.
- Selecting ON has no effect on connected equipment with blue back feature.

4 Press ACTION twice to return to normal screen.

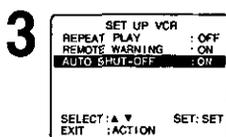
Auto Shut-Off Feature

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

1 Press ACTION to display MENU.



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



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

4 Press ACTION twice to return to normal screen.

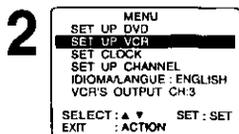
VCR
Operation

Special VCR Features (continued)

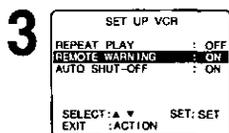
Remote Warning Feature

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

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



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

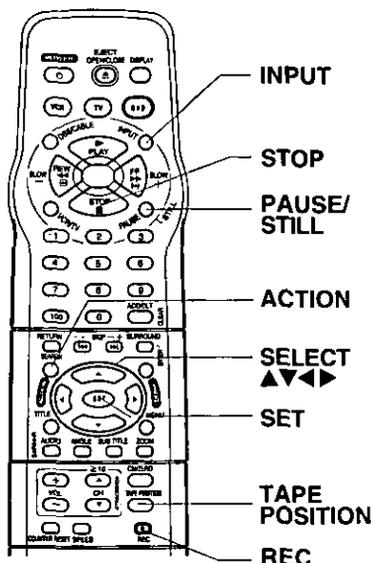


Press **▲▼** to select "REMOTE WARNING," and press **SET** to set "ON" or "OFF."

- 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.



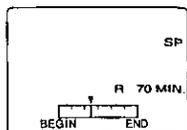
Tape Position and Tape Status Feature

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

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

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

DETECTING TAPE POSITION



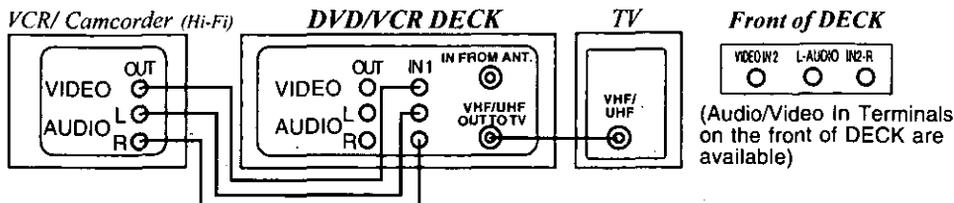
- "DETECTING TAPE POSITION" is displayed only when a cassette is first inserted, and it takes several seconds for correct tape position to appear.
- The present tape position indication and amount of tape remaining (according to tape speed) is displayed.
- Tape remaining time display may not be precise.

Note

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

Copying Your Tapes (Dubbing)

Connection



- ① Connect VIDEO OUT terminal on Playing VCR to VIDEO IN terminal on DECK. To monitor the dubbing, also connect TV as shown.
- ② Connect "L" and "R" AUDIO OUT terminals on Playing VCR to "L" and "R" AUDIO IN terminals on DECK.
In place of Playing VCR, you can use other equipment, such as Camcorder. Simply connect the unit's Audio/Video outputs to DECK.

Playing (Source) VCR

1 Insert a pre-recorded tape.

2 _____

3 Press **PLAY**, then **PAUSE/STILL** immediately to enter PLAY/PAUSE mode.

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

4 Press **PLAY** to start dubbing. Playing VCR starts playback.

5 Press **STOP** to stop dubbing.

Recording (Editing) DECK

Insert a blank tape with record tab.

Press **INPUT** to set DECK Input mode to LINE for Video Input.
(See "Selecting the Input Mode" below.)

Press **REC**, then **PAUSE/STILL** immediately to enter REC/PAUSE mode.

Press **PAUSE/STILL** to start dubbing. DECK starts recording.

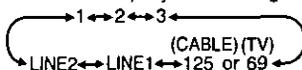
Press **STOP** to stop dubbing.

■ 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 \leftrightarrow LINE1 \leftrightarrow 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. 45.)



Press SUB TITLE* in Play mode to display the subtitle selection on-screen.

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



Press ▲▼ to select a language.

Press ► (or ◀) to set.

Press ▲▼ to select "ON" or "OFF."

Number of subtitle language being played back.

Notes

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

Audio Soundtrack Language (DVD only)

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

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



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

- Display disappears after 5 seconds.

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



Press ▲▼ to select desired language.

Number of the audio soundtrack language being played back.

Ready Checklist

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

[Subtitle language (No.)]

[Audio sound track language (No.)]

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

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

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

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

Notes

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

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

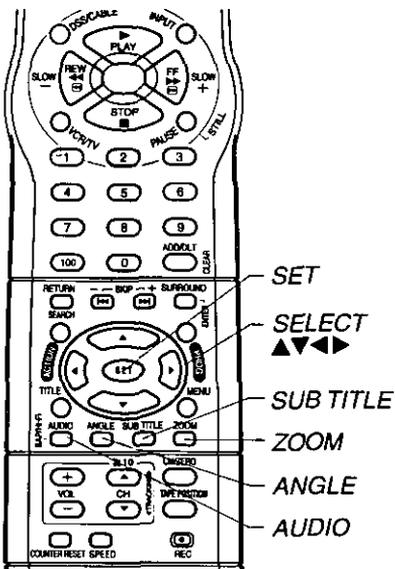
When  appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by DECK or the disc.



ANGLE Indicator

Notes

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



SET

SELECT
▲▼◀▶

SUB TITLE

ZOOM

ANGLE

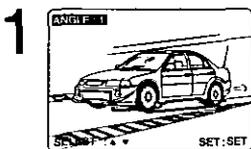
AUDIO

Notes

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

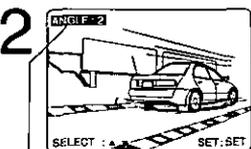
Multiple Angle Viewing (DVD only)

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



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

- Display disappears after 5 seconds.

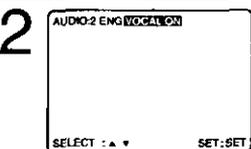


Press ▲▼ to select the desired angle.

Number of angle being played back.

Vocal Selection for Karaoke Discs (DVD/Video CD)

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



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

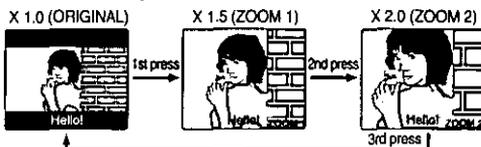
- DVD Karaoke (1 vocal) VOCAL ON--VOCAL OFF
- DVD Karaoke (2 vocals) VOCAL V1 + V2--VOCAL V1--VOCAL V2--VOCAL OFF
- Video CD LR → L--R

Picture Zoom (DVD only)

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

Press ZOOM repeatedly to change display as follows.

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

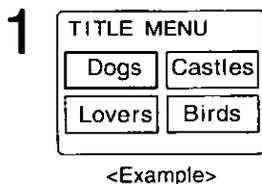


- Use the ▲, ▼, ◀ and ▶ buttons to move the position up, down, left and right.

Disc Operation (continued)

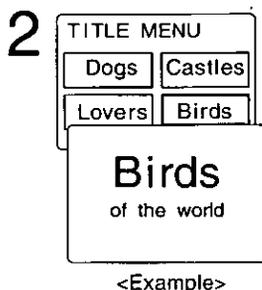
Title Menu (DVD only)

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.)



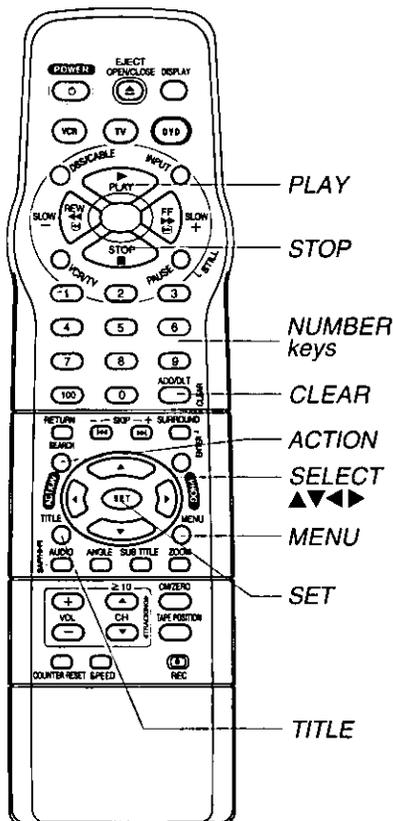
Press **TITLE*** in Play mode to display the title screen.

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



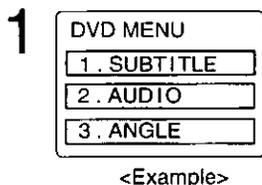
Press **▲▼◀▶** or **NUMBERS** keys to select a title, and press **SET** or **PLAY** to start playing.

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



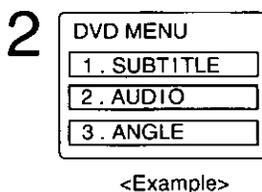
DVD Menu (DVD only)

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



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

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



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

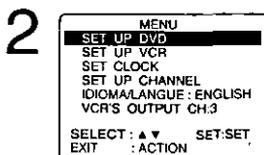
- "Press **SET** or **PLAY**" not necessary when using **NUMBER** keys.

Repeat step 2 if more than one menu.

Program Play (Video CD/CD)

You can program specific tracks and order of play.

1 Press **ACTION** to display MENU.



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



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

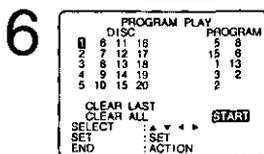


Press **▲▼** to select "PROGRAM PLAY," and press **SET** to display.



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

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



Press **▲▼◀▶** to select "START," and press **SET** to start play of programs in the sequence selected.

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

Note

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

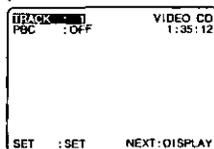
Ready Checklist

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

Program Repeat Play (Video CD/CD)

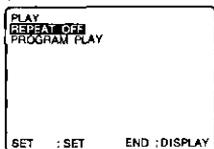
1 Do operation steps 1 through 6 at left on this page.

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

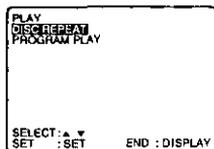


3 Press **DISPLAY** to display DECK Information screen.

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



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



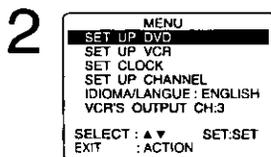
6 Press **SET** to set mode. ("DISC REPEAT" will stop flashing.) To cancel, select "REPEAT OFF" in step 5, then press **SET**.

Disc Operation (continued)

Random Play (Video CD/CD)

Tracks are played in a random order.

1 Press **ACTION**[®] to display MENU.



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



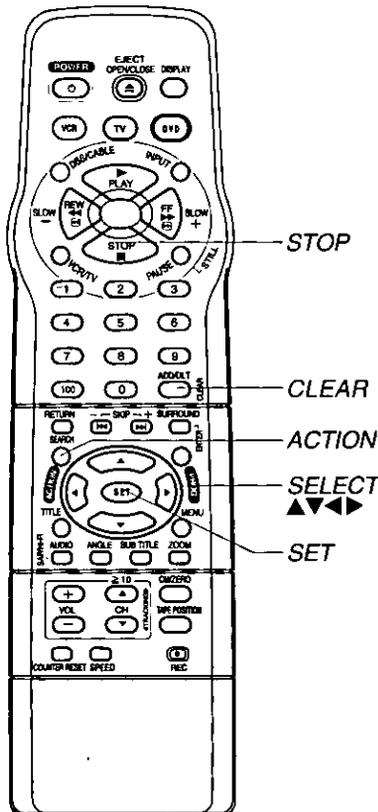
Press **▲▼** to select "PLAY MODE," and press **SET** to display.



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

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

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



DVD Operation using On-Screen Displays

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

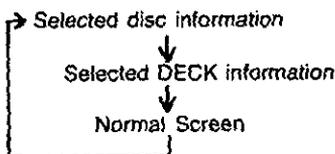


Ready Checklist

- DECK is in DVD mode, press DVD.

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

- Each press of **DISPLAY** changes on-screen display as follows. (refer to p. 42 or 43.)



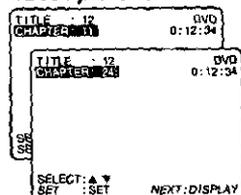
Note

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

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

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

<Example of DVD>



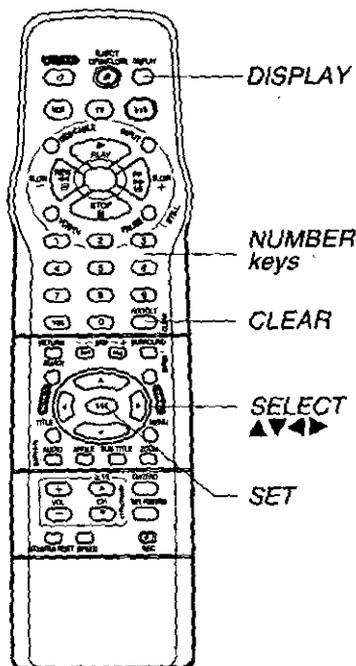
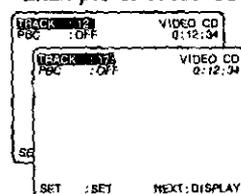
- For some functions the setting will be registered immediately without pressing **SET**.
- When numbers are displayed (e.g. title number), **NUMBER** keys are also available.

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

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

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

<Example of Video CD>



Notes

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

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.

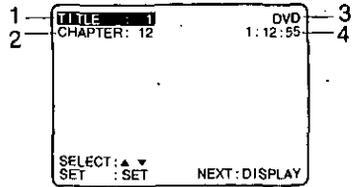
- Change the No. by pressing **▲▼** or **NUMBER keys**, and press **SET**.

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

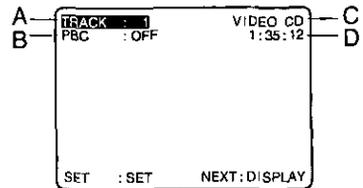
[Video CD with playback control only]

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

C. Disc currently being played

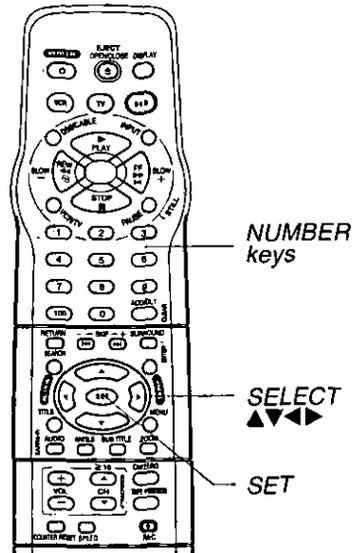
Video CD	CD
----------	----

D. Elapsed playing time



Notes

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



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

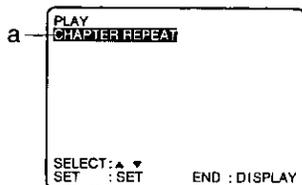
Detailed Descriptions of each On-Screen Display

DECK information screen (for DECK)

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

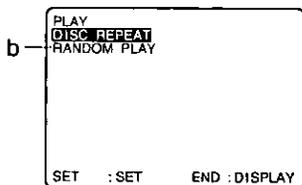
a. Repeat Play

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



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

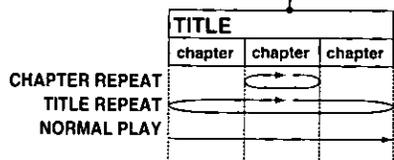
PROGRAM PLAY	program play
RANDOM PLAY	random play
-	normal play



For your reference

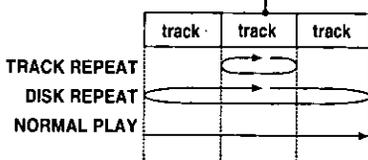
- CHAPTER/TITLE REPEAT PLAY (DVD)

CURRENT PLAYBACK POSITION



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

CURRENT PLAYBACK POSITION



Note

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

DVD Lock Feature

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

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

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

DVD Lock (DVD only)

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

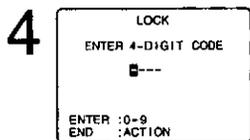
1 Press **ACTION*** to display MENU.



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

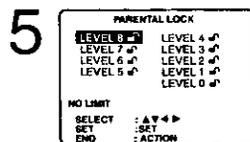


Press **▲▼** to select "PARENTAL LOCK," and press **SET** to display.



- 1) Press **NUMBER keys** to enter your secret code.
 - 2) Enter same secret code again for confirmation.
 - 3) Press **SET** to display.
- Step 2) not necessary when changing rating or secret code.
 - Take care that you are not observed entering the secret code.

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



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.

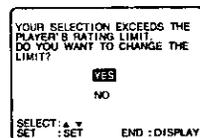
LEVEL 3 to 7: DVDs for general audiences/children can be played back. (DVDs with mature content are prohibited.)

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

Caution

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

<When DVD Lock is activated>



After DVD Lock is set and a blocked DVD is played, this message will appear.

The message may differ depending on the disc.

To continue viewing a blocked program for now,
Press **▲▼** to select "YES" and **SET**.
Then, enter your 4 digit secret code. When "NO" is selected, blocked programs cannot be viewed.

Change your secret code

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

Note

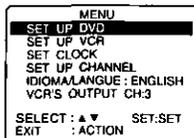
- DO NOT forget your secret code.

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

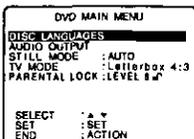
Settings for DVD Operation

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

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



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



DISC LANGUAGES (See below)

All languages offered on the disc can be set. If the language not offered is set, the original disc language will be selected.

AUDIO OUTPUT (See p. 46.)

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

STILL MODE (See p. 47.)

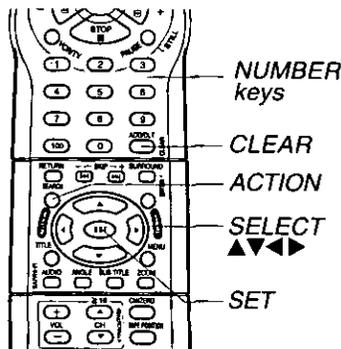
To select "FIELD" (Field still) or "FRAME" (Frame still) to prevent jitter or make small text or fine patterns clearly visible in a still picture. When "AUTO" is set "FIELD" or "FRAME" is selected automatically.

TV MODE (See p. 47.)

To select whether the video material for a wide-screen will be played back in the Pan & Scan style, Letterbox style or 16 : 9 style.

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

- Ready Checklist**
 DECK is in DVD mode, press DVD.



Disc Languages (DVD only)

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

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



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



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

"AUDIO" selections

(Factory preset: English)

To select the audio soundtrack language.

English/Spanish/French

Original: Original disc language

OTHER ****: Other language selection**

"SUBTITLE" selections

(Factory preset: AUTO)

To select the subtitle language.

AUTO: Same language selected for "AUDIO"

- If language set for "AUDIO" is used in playback, subtitles will not appear.
- If another language is used during playback, the subtitles will appear in the language selected at "AUDIO" setup.

English/Spanish/French

OTHER ****: Other language selection**

"MENUS" selections

(factory preset: English)

To select the language used in title

menus or DVD menus.

English/Spanish/French

OTHER ****: Other language selection**

To enter OTHER **** code number,

Press **NUMBER** keys (Please refer to language codes on p. 48).

To make corrections, press **◀** repeatedly to delete language code number, and correct.

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

Settings for DVD Operation (continued)

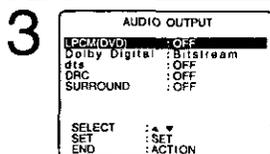
Audio Output

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

1 Do steps 1 and 2 on p. 45.



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



Press **▲▼** to select an item, and press **SET** repeatedly for output. (See below.)

■ "LPCM (DVD)" selections

OFF: Linear PCM of less than 48 kHz/16 bit is output. When playing DVDs recorded in linear PCM of over 48 kHz/20 bit or 96 kHz, no digital audio is output. (Factory preset)

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

■ "Dolby Digital" selections

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

OFF: No output.

■ "dts" selections

Bitstream: dts bitstream is output. (Factory preset)

OFF: No output.

■ "DRC (Dynamic Range Compression)" selections

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

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

■ "SURROUND" selections

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

OFF: No Surround Sound effect. (Factory preset)

ON: Surround Sound effect.

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

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

• When a dts decoder is not connected, to enjoy dts DVD, please select audio output other than dts at the dts DVD menu screen. Otherwise, there will be no sound.

*¹ Audio Output 2 from DECK is converted to 48 kHz/16 bit in addition to audio from digital audio output.

To enjoy high quality sound at 48 kHz/20 bit /24 bit or 96 kHz, connect the amplifier or decoder directly to the Audio Output 2 connectors, not to the Digital Audio Output connector. [Select "OFF" at the "LPCM (DVD)"].

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

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

Notes

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

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

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

Still Mode

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

1 Do steps 1 and 2 on p. 45.



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

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

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

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

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

TV Mode

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

1 Do steps 1 and 2 on p. 45.



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

Pan & Scan 4 : 3 (Factory preset) :

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

- Video data not formatted in Pan & Scan will play in letterbox style.

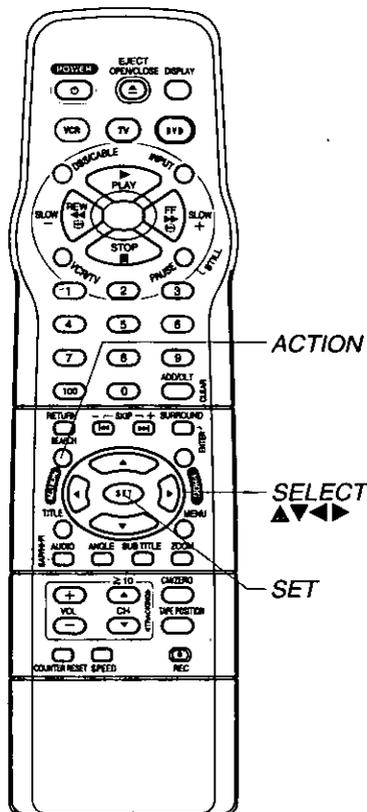
Letterbox 4 : 3 :

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

16 : 9 :

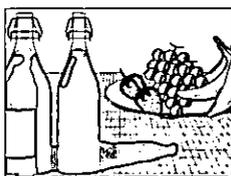
Set "16: 9" when using Wide-screen TV.

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

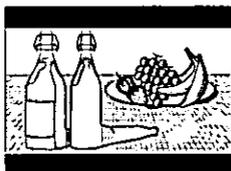


Example

- Pan & Scan (Factory preset)



- Letterbox



Language Code List

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

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

Warning and Instruction Displays

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

OSD	Caution	Page
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PRESS CH UP KEY AGAIN	If no active channels are found for CHANNEL MEMORY...	12 16
PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set...	18
PLEASE PREPARE FOR TIMER REC	If DECK is not in Stop mode or a cassette with record tab is not inserted 2 minutes before a Timer Recording is about to begin...	24 25
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or DECK, and a cassette is inserted with no record tab...	6
NO CASSETTE PLEASE INSERT A CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or DECK without a cassette inserted...	20 21
TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC	If you press STOP or POWER during a Timer Recording... (visible in VCR mode only)	25
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL	If head cleaning becomes necessary while playing back a tape...	6
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while DECK is in VCR Lock mode...	33
REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY USE DVD : DVD KEY USE TV : TV KEY	If you press an invalid key on the remote while in CABLE/DSS mode...	28 29 34
REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE DVD : DVD KEY USE CABLE/DSS : CABLE/DSS	If you press an invalid key on the remote while in TV mode...	28 29 34
PLEASE CHECK THE DISC, AND FOR STAINS OR SCRATCHES ON DISC	If you press PLAY, or DECK reads data from a stained or scratched disc in DVD mode. Also, if the type of disc is other than DVD, Video CD or CD...	4
IT IS PROHIBITED TO COPY DVD/VIDEO CD/CD TO VHS	If you press REC in DVD mode...	21

Before Requesting Service

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

Power	Correction
No power...	<ul style="list-style-type: none"> • Completely insert Power Plug into an AC outlet. • Set POWER button to on. • Make sure power source is active.
Power turns itself off...	<ul style="list-style-type: none"> • Auto power-off (shutoff) occurs after about 5 min. in DVD mode with no operation, or if there is no broadcast signal in TV or Playback mode. Turn the power back on. (pp. 23, 33)
Recording & Playback	Correction
TV program cannot be recorded...	<ul style="list-style-type: none"> • 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...	<ul style="list-style-type: none"> • 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...	<ul style="list-style-type: none"> • 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...	<ul style="list-style-type: none"> • Set TV's Vertical Hold Control to MANUAL, then adjust.
DECK cannot be controlled...	<ul style="list-style-type: none"> • Make sure DECK power is on. • Check Remote batteries. • Make sure VCR LOCK is set to off. (p. 33) • Make sure Remote is in proper mode.(p. 28) • Make sure Timer Record is not in progress.
Remote Control	Correction
DECK cannot be remote controlled...	<ul style="list-style-type: none"> • Make sure DECK power is on. • Make sure Remote is in VCR mode. • Aim Remote Control directly at remote sensor on DECK. • Avoid any object blocking signal path. • Check Remote batteries. (p. 4) • Exposing DECK remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION and PROG buttons do not respond...	<ul style="list-style-type: none"> • These buttons are not available in COMPONENT Video Output and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10) • Check Remote batteries. (p. 4) • Press VCR or DVD button for DVD/VCR mode. (p. 28)

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

DVD/Video CD/CD	Correction
Play fails to start even when PLAY is pressed...	<ul style="list-style-type: none"> This DECK cannot play discs other than DVDs, Video CDs and CDs. The disc may be dirty and require cleaning.
Play starts but then stops immediately...	<ul style="list-style-type: none"> Be sure disc is installed with label side up.
Picture is distorted during rapid advance or rapid reverse...	<ul style="list-style-type: none"> The picture will be somewhat distorted at times: this is normal.
No Forward/Reverse search play...	<ul style="list-style-type: none"> Some discs may have sections which prohibit Forward/Reverse search. (p. 23)
Play does not start even when title is selected...	<ul style="list-style-type: none"> Confirm the "DVD LOCK" setting. (p. 44)
Audio soundtrack and/or subtitle language is not the one selected at the initial settings...	<ul style="list-style-type: none"> 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...	<ul style="list-style-type: none"> Subtitles appear only when available on disc. "OFF" is selected at the changing subtitle language. Select "ON" at the "Changing subtitle languages" setion (p. 36) to display the subtitles.
Alternative audio soundtrack (or subtitle) language cannot be selected...	<ul style="list-style-type: none"> Alternative language cannot be selected with discs which do not contain more than one language. For some discs, alternative language cannot be selected with the AUDIO or SUB TITLE button. Try selecting it from the DVD MENU if available.
Angle cannot be changed...	<ul style="list-style-type: none"> This function is dependent on software availability. Even if disc has multiple angles, they may be recorded for specific scenes only (ANGLE indicator on DECK lights up). (p. 37)
Miscellaneous	Correction
Programs cannot be viewed on TV...	<ul style="list-style-type: none"> Make sure TV is set to output of DECK. Check connections between DECK, external antenna, and TV. Set VCR/TV selector to "TV." (p. 21) Make sure proper signal source is selected.
Video cassette cannot be inserted...	<ul style="list-style-type: none"> Insert the cassette with window side up; record tab facing you.
Video cassette ejects when a recording is started or the power is turned off for timer recording...	<ul style="list-style-type: none"> Make sure cassette record tab is intact. (p. 6)
In Stop mode, the motor (CYLINDER) continues to rotate...	<ul style="list-style-type: none"> To enable Quick play mechanism, the cylinder will rotate for about 3 minutes. This reduces response time from Stop to Play mode.
The disc cannot be removed..	<ul style="list-style-type: none"> First, unplug DECK. Then, prepare a rigid wire (e.g. an extended paper clip) and, applying moderate force, insert it straight into the hole at the base of the tray. The tray will eject a little. Now, pull the tray all the way out and remove the disc. (p. 9)

If you cannot resolve the problem, please call the Customer Call Center for product assistance at 1-800-211-PANA (7262).

To locate an authorized servicer, please call toll free 1-800-211-PANA (7262). or send e-mail to : consumerproducts@panasonic.com

Service Center List

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:

1-800-211-PANA (7262), Monday-Friday 9am-9pm Saturday-Sunday 9am-7pm, EST. or send e-mail to : consumerproducts@panasonic.com

Web Site: <http://www.panasonic.com>

You can purchase parts, accessories or locate your nearest servicer by visiting our Web Site.

Accessory Purchases:

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

Factory Servicenters Locations

CALIFORNIA

6550 Katella Avenue
Cypress, CA 90630

800 Dubuque Avenue
S. San Francisco,
CA 94080

3878 Ruffin Road
Suite A
San Diego, CA 92123

COLORADO

1640 South Abilene
Street Suite D
Aurora, CO 80012

FLORIDA

3700 North 29th
Avenue
Suite 102
Hollywood, FL
33020

GEORGIA

8655 Roswell Road
Suite 100
Atlanta, GA 30350

ILLINOIS

9060 Golf Road
Niles, IL 60714

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

MARYLAND

62 Mountain Road
Glen Burnie, MD
21061

MASSACHUSETTS

60 Glacier Drive
Suite G
Westwood, MA 02090

MINNESOTA

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

OHIO

2236 Waycross Road
Civic Center Plaza
Forest Park, OH 45240

PENNSYLVANIA

2221 Cabot Blvd. West
Suite B
Langhorne, PA 19047

TEXAS

13615 Welch Road
Suite 101
Farmers Branch,
TX 75244

WASHINGTON

20425-84th Avenue
South
Kent, WA 98032

HAWAII

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

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:

Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787)750-4300 Fax (787)768-2910

As of January 2001

Limited Warranty

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

Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.
AVE. 65 de Infantería, Km. 9.5 San Gabriel
Industrial Park Carolina, Puerto Rico 00985

PANASONIC/QUASAR Video Products Limited Warranty

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

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

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

Tap (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 required before warranty service is rendered.

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

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

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

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

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

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

warvid 02/ 12/ 2001

Information
For You

Como realizar la Configuración Inicial

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

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

3

SELECT LANGUAGE

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

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

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

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

4

FIJACION AUTO. (CAN/RELOJ)

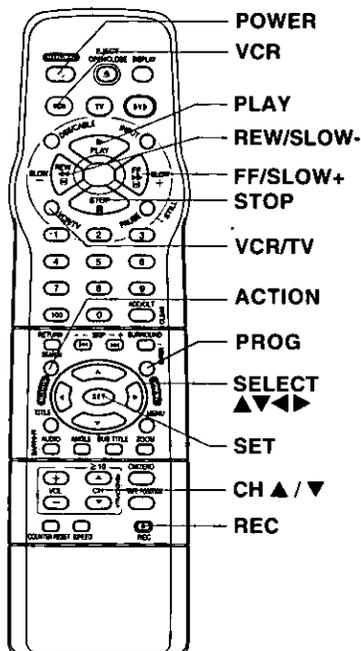
CONECTE A SU ANTENA Y SI
USA UNA CAJA DE TV POR
CABLE SINTONICE AL CANAL
PBS DE SU LOCAL LUEGO...

POR FAVOR OPRIMIR CH UP

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

Caso: La conexión "CABLE/DSS ► VCR ► TV"

- Encienda la caja de cable y ajuste su canal de Estación Pública de Radiodifusión (PBS) en su uso horario.
- Si utiliza un receptor DSS, este tiene que estar apagado.



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

Caso 1
(Configuración completada)

5/13/2001 DOM 2:20PM
HORA VERANO LEGA: ACT
CANAL FIJADO : CA 10
FIJACION AUTOMATICA
COMPLETO
TERMINAR: CH UP

Presione CH ▲ para salir.

Caso 2
(Configuración incompleta)

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

Presione ACTION para visualizar la pantalla del menú RELOJ.

FUJAR RELOJ

1/--/--

VERANO: ACT

ELEGIR MES

ELEGIR : ▲ ▼

FIJAR : SET

SALIR : ACTION

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

FIJAR RELOJ

11/11/2001 DOM 12:00PM

VERANO: ACT

FIJACION ES COMPLETO

FIJAR SET RETROCEDER: ◀

INICIAR: ACTION

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

Operaciones básicas para la reproducción

- 1 **Inserte un cassette.**
 - La alimentación del DECK se activa. En la Pantalla de Visualización Multi Función se ilumina "VCR".
- 2 **Presione PLAY** para reproducir el cassette.
 - Si el cassette no tiene lengüeta de prevención de grabación (página 6), se inicia la reproducción automáticamente.

Detalles especiales durante la grabación

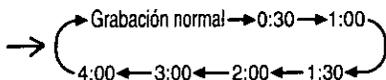
- **Presione FF/SLOW+ o REW/SLOW-** para búsqueda de escenas hacia delante/ hacia atrás. **Presione de nuevo o presione PLAY** para liberar.
- **Presione PAUSE/STILL** para imagen Fija (Congelada). **Presione PLAY** para liberar.
- **Presione PAUSE/STILL en el modo de imagen fija** para imágenes cuadro a cuadro. **Presione PLAY** para liberar.
- **Presione FF/SLOW+ o REW/SLOW-** en el modo de imagen fija para imágenes cuadro a cuadro. **Presione PLAY** para liberar.

- 3 **Presione STOP** para detener el cassette.

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

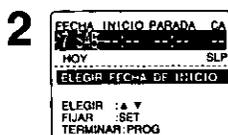
Operaciones básicas para la grabación

- 1 **Inserte el cassette con lengüeta de protección de grabación (pág. 6).**
- 2 **Presione CH ▲/▼, o las teclas de números para seleccionar el canal.**
- 3 **Presione SPEED** para seleccionar la velocidad de grabación (pág.6)
 - SP = Reproducción estándar,
 - LP = Larga duración,
 - SLP = Superlarga duración.
- 4 **Presione REC** para comenzar a grabar.
 - Para eliminar escenas indeseadas, presione PAUSE/STILL para pausar, y al presionar nuevamente se reanuda la grabación.
 - No podrá ver otro canal durante la grabación.
- 5 **Presione STOP** para detener la grabación.
 - **Grabación de un toque (grabar en marcha), Presione REC** repetidamente para ajustar la hora de grabación (30 min - 4 horas).
 - La videograbadora termina la grabación a una hora programada.



Programación fácil para la grabación con temporizador

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

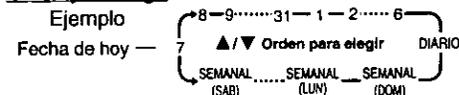


- 1) Para ajustar la FECHA de grabación,

presione ▲▼ para seleccionar:
 1-31 = una vez, o
 DIARIO = a la misma hora de lunes a viernes, o
 SEMANA = a la misma hora cada semana y

presione ► para ajustar.

Orden para elegir



- 2) Para ajustar los ítems que quedan,

presione ▲▼ para seleccionar y
 presione ► para ajustar los tiempos de INICIO/PARADA, CANAL, o entrada de LÍNEA (pág. 35), y velocidad del cassette (SP, LP, SLP).

Presione PROG para finalizar PROGRAM.



Presione ▲▼ para seleccionar un número que no está usando para ingresar mas programas y

presione ► para ajustar. Luego repita el paso 2.

○ **Presione nuevamente PROG** para salir.

Operaciones básicas del DVD

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

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

3 1) Presione **OPEN/CLOSE**.

2) Ponga un disco en la bandeja de disco.

• Sujete el disco sin tocar ninguna de sus superficies, póngalo con el lado donde esté impreso el título hacia arriba, alínelo 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 Video CD con control 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 ▶▶** en el modo de reproducción.

Un capítulo (DVD) o una pista (Video CD/CD) se salta cada vez que se oprime la tecla.

Salto hacia atrás

Presione **◀◀ SKIP** en el modo de reproducción.

■ Para ver una imagen fija

Presione **PAUSE/STILL** durante la reproducción.

(Para liberar, presione **PLAY**)

■ Para ver imágenes cuadro a cuadro

(DVD/Video CD)

Presione **PAUSE/STILL** en el modo de imagen fija.

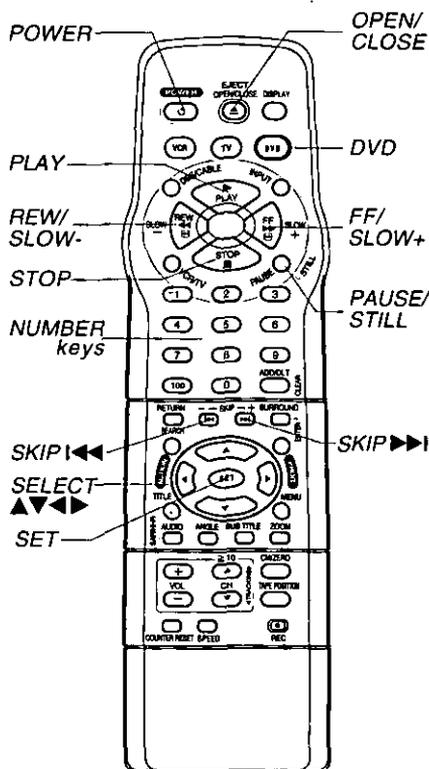
La imagen avanza un cuadro cada vez que presiona la tecla.

(Para volver a la reproducción normal, presione **PLAY**.)

■ Para ver en cámara lenta (DVD/Video CD)

Presione **FF/SLOW+** o **REW/SLOW-** en el modo de imagen fija.

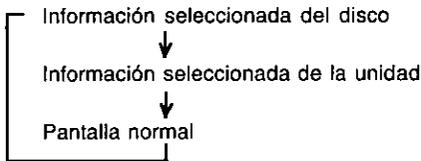
(Para liberar, presione **PLAY**)



Funcionamiento 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.).

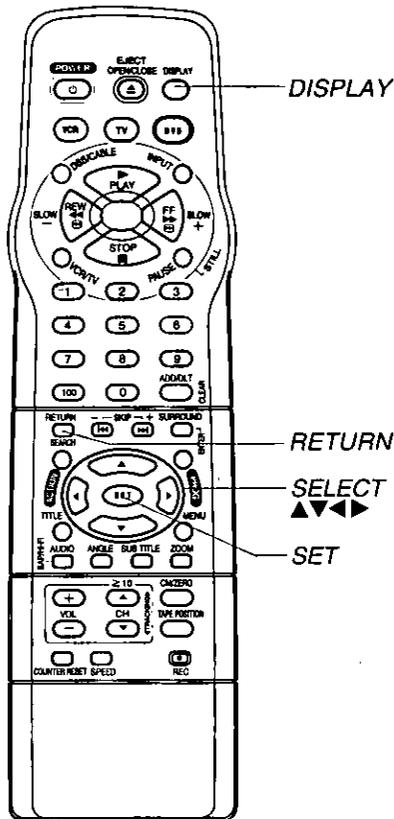
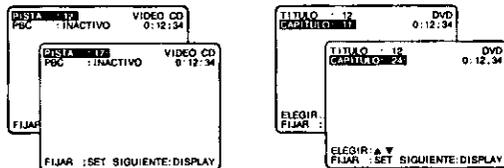
- 1 Presione **DISPLAY** en el modo reproducción o parada para visualizar Visualizaciones en pantalla.
 - Cada vez que se presione **DISPLAY**, la visualización en pantalla cambia como se muestra a continuación.



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

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

Para volver a la pantalla normal,
Presione repetidamente **RETURN** o **DISPLAY**.



Fijaciones iniciales

- 1** Presione **ACTION** en el modo de parada para visualizar **MENU**.
- 2** Presione **▲▼◀▶** para seleccionar: "PREPARA DVD". Presione **SET**.
- 3** Presione **▲▼** para seleccionar el artículo deseado. Presione **SET**.
IDIOMAS DEL DISCO
Todos los idiomas ofrecidos en el disco pueden ser ajustados. Si el idioma ajustado no es ofrecido en el disco, se seleccionará el idioma original del disco.
SALIDA DE AUDIO
Puede usted ajustar la salida audio procedente del terminal de salida audio digital.
DETENER RASTREO
Para seleccionar "Campo fijo" o "Cuadro fijo" para prevenir inestabilidad o para permitir ver textos pequeños o patrones finos claramente en el modo de imagen fija.
PREFERENCIA
Para seleccionar si el material del vídeo para pantalla ancha será vuelto a reproducir en el estilo Pan&Scan o en el estilo Letterbox o en el estilo 16 : 9 en la pantalla.
- 4** Presione **▲▼** para seleccionar el artículo deseado. Presione **SET**.
- 5** Volver a visualizar el menú de DVD para continuar el ajuste.

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

Selección de IDIOMAS DEL DISCO [DVD solamente]

Seleccione "AUDIO"

(Fijación de fábrica : inglés)

Inglés / Español / Francés :

Original : Se seleccionará el idioma original de cada disco.

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

Seleccione "SUBTITULO"

(Fijación de fábrica)

AUTO : Se seleccionará el mismo que fue seleccionado en la preparación de "AUDIO".

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

Inglés / Español / Francés :

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

Seleccione "MENU"

(Fijación de fábrica : inglés)

Inglés / Español / Francés :

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

Cambio del idioma de subtítulos [DVD solamente]

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



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



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

Presione **▶** (o **◀**) para ajustar.

Presione **▲▼** para seleccionar "ON" o "OFF."

Cambio del idioma de la pista de sonido [DVD solamente]

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



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



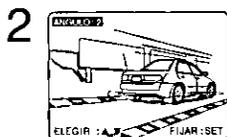
Presione **▲▼** para seleccionar idioma.

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.



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

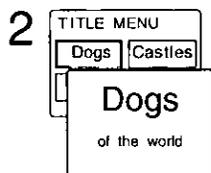


Presione **▲▼** para seleccionar el ángulo deseado.

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.

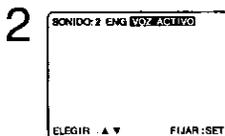
1 Presione **TITLE** durante la reproducción. Ahora se visualiza una lista de los títulos del disco.



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

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

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



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

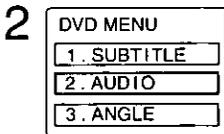
Presione **▶** (o **◀**) para ajustar. (DVD solamente)

- 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.



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

Ampliación de la imagen [DVD solamente]

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

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

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

X 1.0 (ORIGINAL)



X 1.5 (ZOOM 1)



X 2.0 (ZOOM 2)



3da pulsación

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