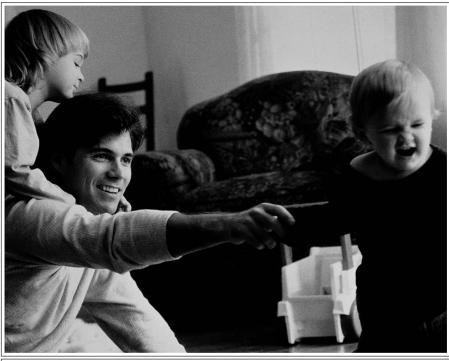




Omnivision WS

# **Panasonic**®

Operating Instructions
Model No. PV-D4753S



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











# **MULTI FORMAT PLAYBACK**











\*Ability to play back may depend on recording conditions.



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

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

Spanish Quick Use Guide is included.

(Guía para rápida consulta en español está incluida.)

LSQT0675A

# Important Safeguards and Precautions

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

#### INSTALLATION

#### 1 POWER SOURCE CAUTION

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

#### 2 POLARIZED OR GROUNDING PLUG

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

#### POLARIZED PLUG CAUTION:

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

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

#### 3 POWER CORD

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

#### 4 DO NOT BLOCK VENTILATION HOLES

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

For protection, follow these rules:

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

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

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

#### 6 TO AVOID PERSONAL INJURY

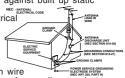
- Do not place unsecured equipment on a sloping surface.
- Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- An appliance and cart combination should be moved with care. Quick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

#### **OUTDOOR ANTENNA INSTALLATION**

#### 1 SAFE ANTENNA AND CABLE CONNECTION

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

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



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

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

#### **USING THE UNIT**

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

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

#### 3 DURING AN ELECTRICAL STORM

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

#### 4 WHEN THE UNIT IS PLUGGED IN

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

#### **5 USING ACCESSORIES**

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

#### 6 CLEANING THE UNIT

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

#### SERVICE

#### DO NOT SERVICE THIS PRODUCT YOURSELF

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

#### 2 IF REPLACEMENT PARTS ARE REQUIRED

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

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

# Safety Precautions/Mesures de sécurité

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

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

wide slot, fully insert.

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

électriques, ne pas exposer cet appareil à la pluie ou

à une humidité excessive.

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





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

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



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

#### CAUTION:

UNIT IS A CLASS I LASER PRODUCT.

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

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

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

DO NOT OPEN COVERS AND DO NOT ATTEMPT TO REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

#### CAUTION:

LASER RADIATION WHEN OPEN DO NOT STARE INTO BEAM.

#### ATTENTION:

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

(Inside of product)

#### **FCC NOTE:**

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

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

#### FCC Caution:

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

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

## **Region Management Information:**

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

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

#### Example:







# **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 vears of enjoyment. Please fill in the information below. The serial number is on the tag located on the back of your DECK.

- Date of Purchase
- Dealer Purchased From
- Dealer Address
- Dealer Phone No.
- Model No.
- Serial No

#### Accessories

□ Remote Control LSSQ0377

□ Ratteries 2 "AA"

PV-D4753S

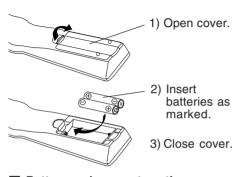


□ RF Coaxial Cable LSJA0372



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

# Loading the Batteries



- ☐ Battery replacement caution
- Do not mix old and new batteries.
- Do not mix alkaline with manganese batteries.

#### Disc formats supported by this DECK

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

Logo	Disc type	
DVD DVD	DVD (DVD-Video)	
R R 4 7	DVD-R (DVD-Video formatted discs [finalized])	
AUDIO	DVD-Audio	
CISC DISTAL VIDEO	Video CD	
COMPACT COMPACT DIGITAL AUDIO	CD (CD-DA) CD-R/CD-RW (CD-DA,Video CD formatted discs [finalized]) WMA, MP3, JPEG	

#### Discs which cannot be played

- DVD with Region No. other than "1" or "ALL"
- PAL discs (the audio on DVD-Audio can be played). DVD-RAM, DVD-ROM, DVD-RW, DVD+RW, CD-ROM, CDV, CD-G, CVD, SVCD, SACD, Divx Video Disc and Photo-CD

#### Notes

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

# **Disc Handling**

#### Handling precautions

- Sticking a label on the disc may impair DVD-R playback.
- Do not attach sticker to discs. (Do not use discs with exposed adhesive from tape or left over peeled-off stickers.)
- Only hold disc by edges as shown below. Fingerprints, dirt and scratches can cause skipping and distortion.
- Do not write on label side of disc.
- · Never use record cleaning sprays, benzine, thinner, static electricity prevention liquids, or any other solvent.





Disc trav-Disc



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

#### To clean disc surface

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

#### If disc is brought from a cold to a warm environment, moisture may form on the disc

Wipe away moisture with a soft, dry, lint-free cloth before using disc. (See above.)

#### Improper disc storage

Discs could be damaged if stored or left in areas:

- exposed to direct sunlight.
- that are humid or dusty.
- near heat (i.e. heater, radiator, etc.).

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# **DECK & Cassette Information**

# **Head Cleaning**

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

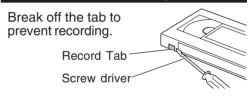
## Video Head Clog Sensor

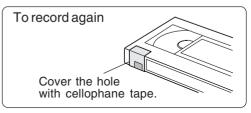
During playback, this screen appears if clogging is detected. To remove screen, press PLAY on the remote or DECK

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

- Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape instructions carefully.
   Excessive use of tape can shorten head life.
- If head clog symptoms persist, contact your nearest servicenter by visiting our Web Site (see p. 59).

# **Prevent Accidental Tape Erasure**





# **Record/ Playback Time**

Only use tapes with the VHS mark in this DECK.

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

# **Cleaning DECK**

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

# Features for a Quality Picture (VCR)

#### **Digital Auto Picture**

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

#### Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

# Manual Tracking Control

(to reduce picture noise)

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

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







V-Lock Control (to reduce picture jitter)

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

## **Specifications**

Power Source:

120 V AC, 60 Hz <u>Power On:</u> Approx. 32 watts, <u>Power Off:</u> Approx. 4 watts Power Consumption:

Video Signal: FIA Standard NTSC color

Video Recording System: 4 rotary heads helical scanning system

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

Tuner:

Broadcast Channels: VHF 2 ~ 13 LIHF 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)
S-Video Output (DVD only), Component Video Output (DVD only) **Output Terminal:** 

Audio Output 2 (L), (R) 5 °C ~ 40 °C (41 °F ~ 104 °F) 10 % ~ 75 % **Operating Temperature:** 

Operating Humidity: Weight:

4.9 kg (10.8 lbs).

Dimensions: 430 (W) x 95.5 (H) x 344 (D) mm

16-15/16" (W) x 3-12/16" (H) x 13-9/16" (D) inch

Discs Played

(1) DVD-Video Disc 5" (12 cm) single-sided single-layer **DVD-Audio Disc** 

5" (12 cm) single-sided double-layer 5" (12 cm) double-sided double-layer (one layer per side)

3" (8 cm) single-sided single-layer 3" (8 cm) single-sided double-layer

3" (8 cm) double-sided double-layer (one layer per side)

(2) Compact Disc 5" (12 cm) disc (CD-DA, Video CD) 3" (8 cm) disc

(CD-R/CD-RW, MP3, WMA, JPEG)

Digital Optical Connector **Digital Audio Output:** 

Wavelength: 655 nm (DVD), 790 nm (Video CD/CD) Pickup:

Laser power: CLASS II

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

# **Definition of Terms (DVD)**

Angle: Some DVD discs feature scenes simultaneously shot from different angles.

> The ANGLE button can be used to view the scene from different angles. (ANGLE Indicator lights on DECK when a scene recorded at different

angles is detected.)

Chapter Number: Titles are subdivided into numbered sections. You can quickly search for

a favorite scene using these numbers.

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

been digitally recorded. DVD incorporates new video compression technology (MPEG II) and high-density recording technology which allow

entire movies to be recorded with incredible playback quality.

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

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

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

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

scenes. (May not work with some discs.)

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

to be quickly located.

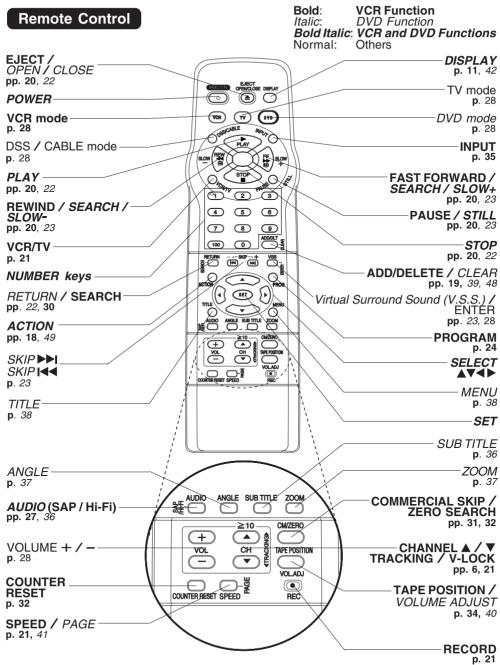
Video CD: CD containing picture and sound with same quality level as video tape.

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

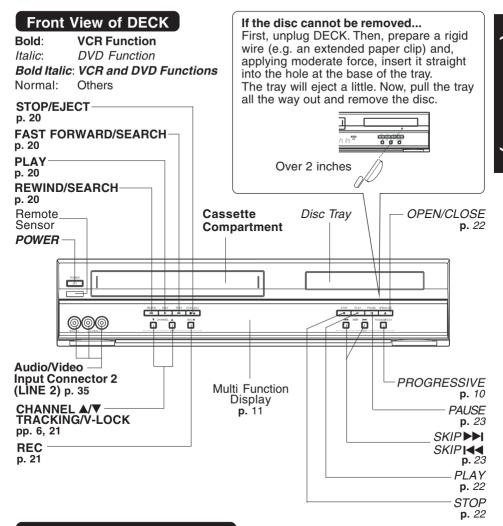
Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, 4,819,098 and 4,907,093, licensed for limited viewing uses only.

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

# **Location of Controls**



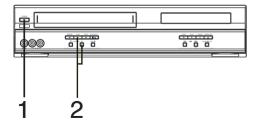
**EJECT button:** When this button is pressed in VCR mode, the tape is ejected. This button is inoperative if pressed during recording. If pressed in DVD mode, the disc tray opens or closes.



## **Reset All Memory Functions**

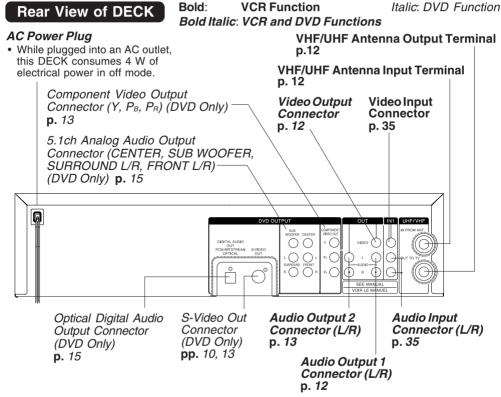
Use when moving DECK to new location, or if a mistake was made in the Initial Setup section (return to Factory Setting).

• Make sure a tape is not inserted in the DECK.



- 1 Turn DECK Power on.
- Press and hold both VCR PLAY and CHANNEL ▲ on the DECK for more than 5 seconds.
  - The power shuts off.
  - Do "Initial Setup (Ready to Play)" on page 16.

# **Location of Controls (continued)**



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

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



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

# To enjoy PROGRESSIVE SCAN video

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

#### Notes

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

# Displays (On Screen & Multi Function)

**Function Status** 

# On Screen Displays (VCR)

## **Function & Channel Displays**

CH 08

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

#### Blank Tape/ No Video Signal Indications

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

Channel

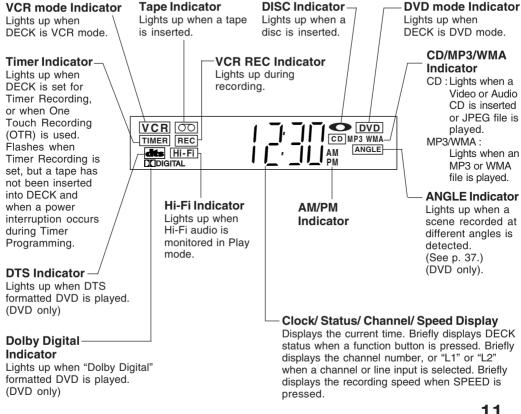
**VCR Status & Clock Displays** To display or remove overlav at right.

→ press DISPLAY.

REC 1: -0:25 (¢STEREO ◀ 12:00AM CH 02 -0:12:34 Counter Rec Time Remaining (OTR mode only. see p. 21.) Broadcast Audio Tape Speed Being Received (See p. 6.) (See p. 26.)

Current Time

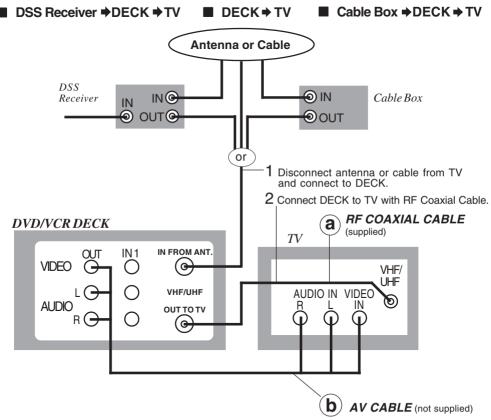
# **Multi Function Display**



# **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.



#### **WARNING** -

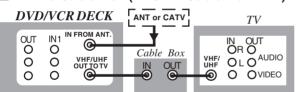
When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.

#### 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

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



#### You Can

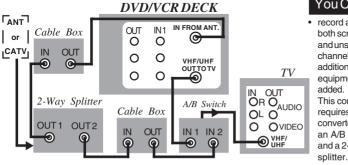
- view anv (including scrambled) channel
- use Remote Control to select channels without using Multi-brand control feature.

#### You Cannot

 record ccramblad channels

# Connection

■ Connect With Two Cable Boxes



#### You Can

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

#### You Cannot

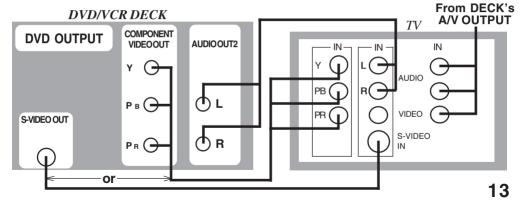
- view a channel other than the one selected for any type of recording.
- · do a Timer recording of a channel unless you select it on the Cable Box.

# Connections For DVD Only (enjoying higher picture quality)

- (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, connect to COMPONENT VIDEO OUT. If your TV does not have COMPONENT VIDEO INPUT but has S-VIDEO INPUT, connect to S-VIDEO OUT.
- (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.
- PROG functions on the remote are not available when using S-VIDEO OUT and COMPONENT Video Output, Please set TV to either RF INPUT or VIDEO INPUT, and then press PROG.
- TV must have capability to accept and display a progressive scan signal to use PROGRESSIVE mode. Consult your TV operating instructions.



# **Connections (continued)**

## **Audio Connections**

Ready Checklist					
	☐ Turn down the volume, then turn DECK, as well as other equipment to be connected,				
	off before proceeding with connection.  Do not block ventilation holes of any of the equipment and arrange them so that air can				
☐ Read through the instructions befo	☐ Read through the instructions before connecting other equipment. ☐ Ensure that you observe the color coding when connecting audio and video cables.				
■ Connecting Amplifier (2ch s	tereo system)				
DVD/VCR DECK	Speaker	Amplifier	Speaker		
AUDIO OUT2 AUDIO IN					
	_				
φR			_		

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

Disc	Sound recording format	Optical digital audio output from connector
DVD	Dolby Digital	Dolby Digital bitstream (1-5.1 ch) or PCM (48 kHz sampling/16 bit only)*1
	Linear PCM (48/96/192/44.1/88.2/ 176.4 kHz 16/20/24bit)	Linear PCM (2 ch) (48 kHz sampling/16 bit or 44.1 kHz sampling/ 16 bit)*2
	DTS	Bitstream or PCM (48 kHz sampling/16 bit only)*1
Video CD	MPEG 1	PCM (44.1 kHz sampling)
CD	Linear PCM	Linear PCM (44.1 kHz sampling)
МР3	MP3	Linear PCM (It depends on the MP3 file)
WMA	WMA	Linear PCM (It depends on the WMA file)

- \*1 The type of audio output from the connector can be selected by the Settings for DVD Operation. (See p. 50.)
- \*2 Sound having 96/192 kHz sampling is converted into 48 kHz sampling (or 88.2/176.4 kHz sampling is converted into 44.1 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 44.1 kHz/16 bit ~ 192 kHz/24 bit.

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

Manufactured under license from Dolby Laboratories.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

# Connecting Amplifier (5.1 ch Surround system)

Enjoy the powerful movie theater and hall-like sound available with multiple channel audio found on DVDs by connecting an amplifier and speakers. There are two types of connection, digital and analog

- A. Digital connection (DECK OPTICAL Digital Audio Output Connector) 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.1 B. Analog connection (5.1 ch Analog Audio Output Connector)

Connect an amplifier with multi-channel audio input terminals. This DECK can decode Dolby Digital and DTS. There are no limitations on sampling frequency with this kind of

connection. Surround Surround Notes on connecting an optical Speaker Speaker digital audio cable (optional) [5.1 ch Surround system] · Firmly connect the cable to the connector. Center Speaker Front Front Speaker Speaker **Amplifier B.** Analog connection To multi-channel audio input terminals Subwoofer DVD/VCR DECK (Rear) Decoder with Dolby Digital /DTS processing A. Digital connection Optical Digital Audio Cable (optional) To Optical Digital Audio

#### Caution for optical digital audio output connector:

 When connecting an amplifier (with an Optical Digital Input Connector) which does not contain the Dolby Digital or DTS decoder, be sure to select "PCM" at "Dolby Digital" and "PCM" at "dts" of the Settings for DVD Operation "Audio Output" (see p. 50). Otherwise, any attempt to play DVDs may cause such a high level of noise that it may be harmful to your ears and damage your speakers.

Input Connector

- When a Dolby Digital/DTS decoder is connected, please select "Bitstream" at "dts" or "Dolby Digital" of the Settings for DVD Operation "Audio Output". If "PCM" is selected, there will be stereo sound. (See p. 50.)
- Video CDs and CDs can be played as usual. Note:

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

# Initial Setup for Basic Connections (Ready to Play)

# Before doing Initial Setup

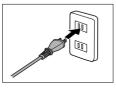
- Turn TV on.
- See connections (a) RF Coaxial Cable Connection and (b) AV Cable Connection on page 12.
  - <RF Coaxial Cable Connection>
    Set TV to channel 3
  - <AV Cable Connection>
    Set TV to VIDEO.
- 3 [DECK TV]
  - Go to "Initial Setup (Ready to Play)." (See below.)

#### [Cable Box → DECK → TV], [DSS → DECK → TV]

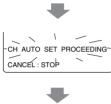
- Turn on Cable Box and set it to your Public Broadcasting Station (PBS) channel in your time zone.
- · If you use a DSS Receiver, it must be turned off.

# **Initial Setup (Ready to Play)**

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



# Plugging the AC Power Plug into an AC outlet.

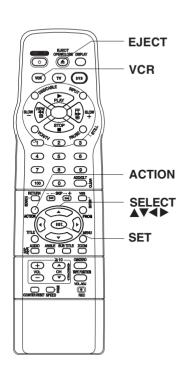




## Notes

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

Continued on next page...



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



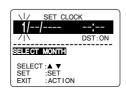
If "AUTO CLOCK SET IS INCOMPLETE" appears, manually set clock. See below.



# **Manual Clock Set**

If Auto Clock Set was incomplete.

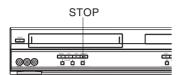
Press ACTION\* on remote to display CLOCK screen.



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



Press ACTION to start clock and exit.



# Reset Language, Channels, Clock,

1

MENU
SET UP VOR
SET CLOCK
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE: ENGLISH
VCR'S OUTPUT CH:3
SELECT: A CTION
EXIT

Press ACTION\* to display MENU.

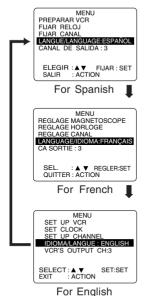
 PROGRAM functions are not available when using COMPONENT Video Output and S-VIDEO OUT. Please set TV to either RF INPUT or VIDEO INPUT, and then press PROGRAM.

**■** Language

 Press ▲▼ to select language item.



Press SET repeatedly to change language item as shown below.



3) Press ACTION to exit.

# Channels

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



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



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



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

## Clock

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



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



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



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

# **VCR's Output Channel**

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

# Time Zone Adjust

(Only when Auto Clock is set.)

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



2) Press ▲▼ to select "TIME ZONE ADJUST."



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

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

# ■ VCR's Output Channel

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



2) Press SET.

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

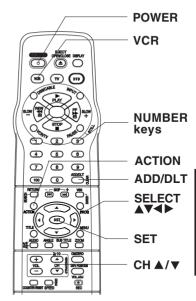
3) Press ACTION.

PLEASE TUNE YOUR TV TO CH 4.

After 3 seconds



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



#### Add or Delete a Channel

To add channel:

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

CHANNEL 08 ADDED

To delete channel:

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

CHANNEL 08 DELETED

# **DST (Daylight Saving Time)**

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

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

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

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

# Playback/ Record on a Tape

# Ready Checklist

☐ All connections are made. (pp. 12 ~ 15)

TV and DECK are plugged in.

TV is on and tuned to CH 3, 4, or VIDEO.

☐ Remote is in VCR mode. (Press VCR.)

## Playback a Tape

# Insert a tape.

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

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 RFW/SLOW-
- → Press PLAY to release.

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

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

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

## Notes

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

# Still (Freeze) Picture

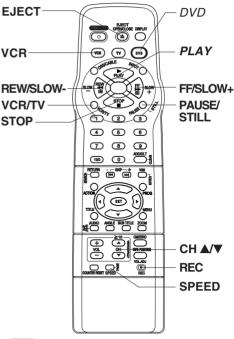
- → Press PAUSE/STILL.
- → Press PLAY to release.

## Frame by Frame Picture

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

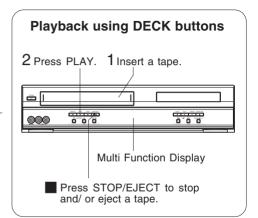
## ■ Slow Motion Picture

- Press FF/SLOW+ (increase speed) or REW/SLOW- (decrease speed) in Still mode.
- Press PLAY to release.
- **3** Press STOP to stop a tape.
- Press REW/SLOW- or FF/SLOW+ in Stop mode to rewind or fast forward a tape.
- Press EJECT on remote, or STOP/EJECT on DECK to eject a tape.



#### Notes

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



#### Record on a Tape

■ Insert a tape with a record tab (p. 6).

- DECK power comes on. If Auto VCR/TV (see p. 32) is set to "OFF," press VCR/TV on the remote to be VCR mode.
- **Press CH ▲▼**, or **NUMBER keys** to select the channel.
  - For "LINE" input, see p. 35.
  - If channel is over 100, press 100 key then press the remaining 2 digits.
- Press SPEED

to select the record speed (p. 6).

SP = Standard Play
SLP = Super Long Play

• Speed appears on-screen and on Multi Function Display.

**⚠** Press REC

to start recording.

(The VCR REC indicator lights up on Multi Function Display),

- To edit out unwanted scenes, press PAUSE/STILL to pause, and again to resume recording.
- You cannot view another channel during recording.
- **5** Press STOP to stop recording.
- One Touch Recording (recording in progress),
  - → press REC repeatedly to set the recording length
  - → (30 min. ~ 4 hours).
    - · DECK shuts off after the preset record length.
- Record one station, watch another,
  - press VCR/TV on the remote (change to TV mode),
  - select channels at TV (recording continues).
- Select Channels at DECK (In STOP or
  - REC. PAUSE mode),

    → press VCR/TV on the remote
  - (change to TV mode),
  - > select channels at DECK.
- Play a disc while recording a tape.
  - → insert a disc during recording,
  - → press DVD, and then press PLAY.

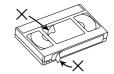
# Notes

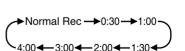
- It is not possible to record from DVD/ Video CD/ CD to VHS tape using DECK.
- Watching one channel and recording another is not possible when using Cable Box or DSS Receiver.
- After 5 minutes in Pause mode, DECK stops to protect a tape and video heads.

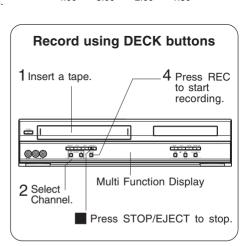
This video recorder, equipped with HQ (High Quality) system, is compatible with existing VHS equipment. Only use tapes with the WHS mark. Only tapes tested and inspected for use in 2, 4, 6, and 8 hour machines are recommended

#### Note

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



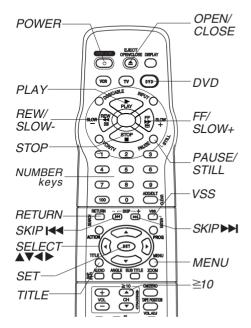


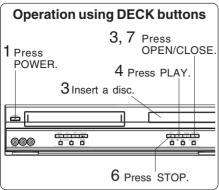


# **Basic DVD Operation**

# Ready Checklist

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





- \*1 Interactive DVD... May include multiple camera angles, stories, etc.
- \*2 Video CD with playback control... Particular scenes or information can be interactively selected from a menu that appears on the screen.

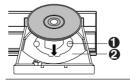
# 1 Press POWER\* on the remote or DECK.

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

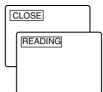
 If a disc is already inserted, go to step 4 (Depending on the disc, playback may start automatically.)

# Press OPEN/CLOSE,

and then place a disc into the disc tray.



- Hold disc by its edges only (p. 4) with printed side up and use guides to place into tray.
- Use **1** 3" (8 cm) or **2** 5" (12 cm) disc.
- **Press PLAY** to start playing. Disc tray closes automatically.



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

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





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

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

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

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

3 digit number 123 •••100 1 2 3

Press SKIP ▶▶I or I◀◀ 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-Video/DVD-Audio)

Press RETURN. (Video CD)

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

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

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

#### Press PLAY to release.

- Starting forward/reverse search during play started from menu on Video CDs may recall menu.
- · Search speed, slow at first, increases with each additional press of the button up to 5 levels.
- Forward/Reverse Chapter/Track Skip Press SKIP ▶▶I or I◀◀ SKIP during play. Each press skips a chapter (DVD-Video) or track (DVD-Audio/Video CD/CD).
  - Pressing I ◀ SKIP once midway through a chapter/track returns to the start of that chapter/track. Each additional press skips back one chapter/track.
  - Pressing SKIP ▶▶I or I◀◀ during play started from menu on Video CDs may recall menu.

Current playback position



#### 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. 53.)

#### ■ Slow Motion Picture (DVD/Video CD)

Press FF/SLOW+ or REW/SLOW-

in still mode

Press PLAY to release.

- · Slow motion speed, slow at first, is increased with each additional press of the button up to 5 levels.
- Reverse slow motion is not available for Video CDs.

# **Auto-Power Off Function**

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

is being operated, it means that the corresponding operation is prohibited by DECK or the disc.

## V.S.S. (Virtual Surround Sound)

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

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



#### Note

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

#### Resume Function

DECK memorizes the point where STOP is pressed (STOP > is displayed on screen). Press PLAY to resume play from this point. Pressing STOP again or opening the trav cancels RESUME, however, RESUME is not canceled when power is turned off and on.

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

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

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

#### To Resume Menu use.

Press STOP and press PLAY, then the menu will be displayed.

Now, go to step 5 (previous page).

#### Notes:

- Please read the disc jacket for operation information.
- If a single sided disc is placed in upside down, "THIS TYPE OF DISC CANNOT BE PLAYED. PLEASE INSERT A DIFFERENT DISC" is displayed.
- Remove disc and press DECK POWER off when not in use.
- Disc continues to rotate with menu displayed even after play is done. Press STOP to clear menu display when finished with menu.

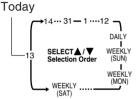
# **Timer Recording**

# Ready Checklist

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

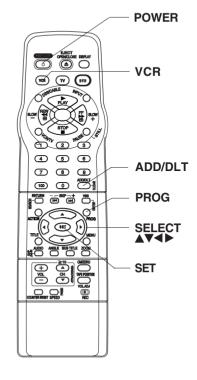


Example



- 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.



To Enter More Programs, press ▲▼

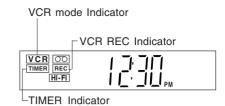
to select and press SET

to set an unused program number, and then repeat step 2.

Or

**Press PROG** 

to exit.



<Multi Function Display>

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

# Review, Replace or Clear Program Contents:

(Recording is not in progress)

Press PROG to display Program List.

DT START STOP CH SPD 7 9:00A 12:00A 08 SP 8 10:00P 12:00P 02 SP 10 8:00P 9:00P 10 SP SU 9:00P 10:00P L1 LP

> CANCEL :ADD/DLT SELECT 1-8:▲▼ ENTER :SET

FYIT

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

# To cancel a Timer Recording in progress...

**Hold down STOP** in VCR mode for a few seconds to cancel the Timer Recording.

(The "TIMER" Indicator goes out on Multi Function Display.)

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

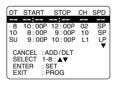
# To Replace program...



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

or

## To Clear program...



Press ADD/DLT.

4 Press PROG to end the programming.

# Notes

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

  Be sure a cassette with record tab is loaded and DECK is in Stop mode.
- If a power interruption occurs while programming the timer, the timer program(s) may be canceled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears on-screen, please re-enter the timer programs.
- If the start time for Timer Recording comes up during recording and playing back,
   Timer Recording will not be performed.

## Important notes when using DSS Receiver

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

# MTS Broadcast/ VHS Hi-Fi Stereo System

## Connection

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

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

# **Receivable Broadcast Types**

The following are possible audio broadcast types and onscreen displays.

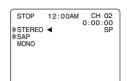
The signal being received is indicated with an "(c" mark while the selected audio mode is indicated with an arrow.

To display the broadcast signal being received,

→ press DISPLAY\*.

#### MTS Stereo and SAP broadcast

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

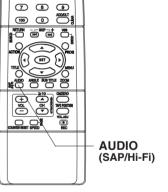


MTS Stereo broadcast

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

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





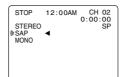
OPENCLOSE DISPLAY

(E) (G)

DISPLAY

#### **SAP** broadcast

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



## **MONO broadcast**

Normal monaural sound broadcast.



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

## Audio Mode for Recording

♣ Press AUDIO (SAP/Hi-Fi)

to display audio mode.

(Display disappears after 5 seconds.)

2



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

- Refer to "Receivable Broadcast Types" on p. 26.
- Arrow indicates selection
- Make a recording.
  See p. 21.

# **Audio Mode for Playback**

Start playback. See p. 20.

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

3



Arrow indicates selection.

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

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

• Display disappears after 5 seconds.

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

# **Multi-Brand Control Feature**

# **Multi-Brand Control Setup**

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

- Find your TV and Cable Box/DSS Receiver Brand Code Number on the following page.
- Set up for TV control. → hold down TV button.
  - → enter code with NUMBER keys.
  - Set up 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.
- Confirm code entry.
  - > press POWER to turn selected unit on or off.
  - See table below for controllable functions in each mode.

Notes

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

## **Using Multi-Brand Control**

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

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

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



**Bold Italic: VCR and DVD Functions** Normal: TV, Cable Box or DSS Receiver POWER

**VCR** 

DSS/ CARLE

TV

DVD

NUMBER

kevs

**FNTFR** 

(5) 4

(0)

**⊞** ₩

 $\overline{\mathcal{C}}$ (B) (B)

(6)



- 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	
Panasonic01, 02 Sylvania	05 JVC 11
Quasar 01, 02 Sharp	
RCA 03 Sony	
GE 03 Toshiba	
Zenith 04 Sanyo	10 Gold Star 15, 16, 17
Magnavox 05 Fisher	10
Cable Box Brand Code Numbers	
Archer 44, 06, 01, 120, 05, 63, 126	Oak Sigma 46, 11, 129, 101
Cableview	Panasonic
52, 04, 124, 126	Philips 23, 24, 20, 13, 07, 50, 128, 129
Citizen	Pioneer 06, 05, 12
Curtis	Pulsar 04, 42, 63, 44, 30, 52, 124, 126
Century 44, 51, 75, 59, 126	Quest
Cabletenna	Radio Shack 44, 51, 75, 59, 126
Cable Cinema 29, 09, 01, 63, 120, 44, 126	RCA 17, 16, 08, 87, 109
Diamond 29, 09, 01, 63, 120, 44, 126	Realistic 44, 51, 75, 59, 126
Eagle	Recoton 44, 51, 75, 59, 126
Eastern	Regal 41, 14, 15, 28, 102, 104, 103, 130
Explorer	Regency
Gemini	Rembrandt 44, 42, 63, 29, 01, 32, 39, 120, 126
General Electric	Samsung
General Instruments . 01, 84, 83, 34, 03, 02, 04, 55	Scientific Atlanta
65, 66, 67, 68, 120, 106, 121, 122, 115, 117, 118, 124 Gerrard	Signal
GC Electronics	SL Marx
124, 126	Sprucer
Hamlin	Standard Components
Hitachi	Stargate04, 42, 32, 40, 63, 44, 30, 52, 06
Jerrold 01, 84, 83, 34, 03, 02, 04, 55, 65, 66	124, 126
67, 68, 120, 106, 121, 122, 115, 117, 118, 124	Sylvania
Jasco	Teknika
Macom 31	Telecaption 77, 127
Magnavox 26, 112	Teleview
Matsushita 17, 16, 08, 87, 109	Texscan 19, 18
Movietime 32, 39, 42, 44, 126, 38, 40	Tocom 34, 33, 01, 42, 66, 120
Maestro	Toshiba
NEC	Unika 44, 42, 63, 29, 01, 126, 120
NSC 40, 19, 38, 32	Universal
Novavision	Viewstar 62, 40, 22, 13, 58, 20, 26, 107
Next Level 01, 84, 83, 34, 03, 02, 04, 55, 65	Videoway
66, 67, 68, 120, 106, 121, 122 Oak46, 11, 129, 101	Zenith
	Zeriiti 07, 23, 30, 129
DSS Brand Code Numbers	
Toshiba 90	Optimus94, 95
Hitachi/ Hughes91, 99	Panasonic
Primestar 92	ProScan 97
Drake 93	RCA
Magnavox94, 95	SONY 98, 105
Uniden 94, 95	

## Important Notes

- Some manufacturers use several codes for one brand. If the first code entered fails, try the next one listed.
- 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

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

to select recording number.

To calculate

number, see below.

Press FF/SLOW+

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

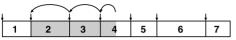
PORWARD SEARCH : FF
REVERSE SEARCH : REW

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

 To cancel, press PLAY or STOP.

# To Calculate Index Number Example 1:

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



## Example 2:

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



NOTE: 

Indicates start points of each recording.

## Note

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

# **Program End Search**

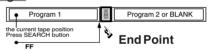
Locates end point of recording for continuity.

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

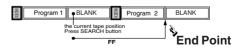


### Examples of Program End Search.

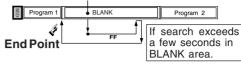
#### Fig. 1



#### Fig. 2







# Upon locating end point,

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

## Note

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

# **Auto Operation Functions**

## ■ Auto Play

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

#### ■ Auto Rewind

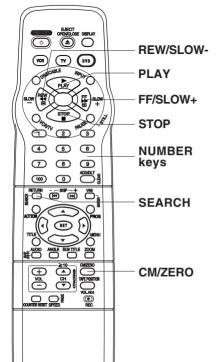
Play
Fast Forward → Tape end → Rewind

## ■ Plav Auto Eiect

(Repeat Play must be off)

Play → Tape end → Rewind

→ Tape ejects if set some programs



# **Commercial Skip**

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

# **┩ 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.

Press ACTION\* to display MENU.

2 MENU
SET UP VOR
SET CLOCK
SET UP CHANNEL
IDIOMALANGUE: ENGLISH
VCR'S OUTPUT CH:3
SELECT: A V SET: SET
EXIT: ACTION

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

SET UP VCR
REPRAT PLAY
AEMOTE WARNING
AUTO SHUT-OFF
AUTO VCR/TV

SELECT: A Y SET: SET
END : ACTION

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

- Play repeats at tape end or if unrecorded portion over 30 sec. is detected
- 4 Press ACTION twice to return to normal screen.

# Note

• For repeat play in DVD mode, see page 44.

## **Zero Search**

To quickly return to a specified tape location.

Press DISPLAY during play to display Counter.

PLAY 12:00AM 0:00:00 SP

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

Press CM/ZERO in Stop mode

to start Zero Search.

3 Continue to record, playback etc.

4 Press STOP.

STOP 12:31AM CH 02 0:00:00 SP

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

# **VCR/TV Selector Feature**

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

**1 Press ACTION** to display MENU.



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

SET UP VCR
REPEAT PLAY : OFF
REMOTE WARNING : ON
AUTO SHUT-OFF : OFF
AUTO VGR/TV : OFF
SELECT: A ▼ SET: SET
END : ACTION

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

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

4 Press ACTION to return to normal screen.

# Note

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

# DISPLAY (VOR) (TV) (DVD) STOP (5) (6) ന ന **ACTION** /ത (100) 崗 **SELECT** (1) (m) (1) **SET** CM/ZFRO COUNTER RESET

## **VCR Lock Feature**

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

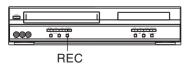
To turn on, hold down REC on DECK in Stop mode with no tape inserted for 7 seconds. (Please ignore "NO CASSETTE" warning.)



## To turn off, repeat above.



 VCR Lock cancels in 24 hours if clock is set.



# Weak Signal Display Feature

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

Press ACTION to display MENU.



Press AV to select "SET UP CHANNEL." and press SET.



Press ▲▼ to select "WEAK SIGNAL DISPLAY," and press SET

to set "ON" or "OFF."

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

Press ACTION twice to return to normal screen.

# **Auto Shut-Off Feature**

The power shuts off at a preset time.

**Press ACTION** to display MENU.



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



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



Press ACTION twice to return to normal screen.

# Note

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

# **Special VCR Features (continued)**

# **Remote Warning Feature**

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

Press ACTION\* to display MENU.

MENU
SET UP VOR
SET UP VOR
SET UP CHANNEL
IDIOMALANGUE: ENGLISH
VORS OUTPUT CH:3

SELECT: A VENUE SET: SET
EXIT : A CTION

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

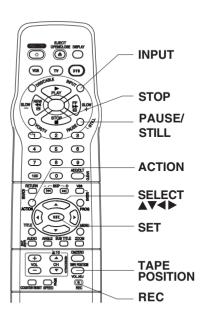
SET UP VCR
REPEAT PLAY : OFF
REMOTE WARNING : ON
AUTO SHUT-OFF : OFF
AUTO VCRTV : OFF
SELECT: A ▼ SET: SET
EXIT : ACTION

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

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

Press ACTION twice to return to normal screen.

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



# **Tape Position and Tape Status Feature**

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

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



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

  R 120 MIN.

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

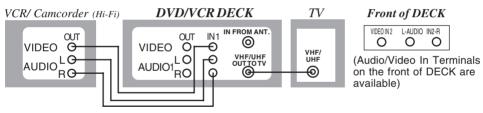
# **2** Press TAPE POSITION to return to normal screen.

# Note

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

# **Copying Your Tapes (Dubbing)**

# Connection



- Connect VIDEO OUT terminal on Playing VCR to VIDEO IN terminal on DECK. To monitor the dubbing, also connect TV as shown.
- Connect "L" and "R" AUDIO OUT terminals on Playing VCR to "L" and "R" AUDIO IN terminals on DECK.

In place of Playing VCR, you can use other equipment, such as a Camcorder. Simply connect the unit's Audio/Video outputs to DECK.

# Playing (Source) VCR

# Recording (Editing) DECK

Insert a pre-recorded tape.

Insert a blank tape with record tab.

2 —

Press INPUT to set DECK Input mode to LINE for Video Input.

(See "Selecting the Input Mode" below.)

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

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

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

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

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

**5** Press STOP to stop dubbing.

Press STOP to stop dubbing.

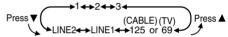
## ■ To Monitor Dubbing on TV

- 1 Turn TV on and tune to the Recording VCR channel (CH 3 or CH 4).
- 2 If Auto VCR/TV (see p. 32) is set to "OFF," press VCR/TV on the remote to be VCR mode.

# ■ Selecting the Input Mode

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

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



Note

- Dubbing tapes protected with Copy Guard will result in poor quality recordings.
- "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-Video only)

You can select a different subtitle language (if offered) than the one set at the Settings for DVD Operation. (See p. 49.)

1



#### Press SUB TITLE\*

in Play mode to display the subtitle selection on-screen

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

2



#### Press **▲**▼

to select a language.

Press **◀** ▶

to select "ON" or "OFF."

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

#### Notes

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

# Audio Soundtrack Language (DVD only)

You can change the audio soundtrack language, selected at the Settings for DVD Operation, to a different language if available. (See p. 49.)

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

1



#### Press AUDIO

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

 Display disappears after 5 seconds.

Audio attribute 1 type, sampling frequency, bit No. of the disc or number of speaker channel.

AUDIO STEEP Dolby Digital 3/2.1ch

#### Press **▲**▼

to select desired language.

Ready Checklist

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

# [Subtitle language] [Audio sound track language]

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

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

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

	44.1 kHz		
LPCM	≀	20 bit	Linear PCM disc
	192 kHz		
<b>Dolby Digital</b>	1 ch - 5.1 ch		Dolby Digital disc
DTS	1 ch - 5.1 ch		DTS disc

#### Notes

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

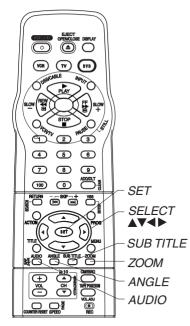
When  $\bigcirc$  appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by DECK or the disc.



### **ANGLE Indicator**

### Notes

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



# Notes

- The subtitle cannot be enlarged nor can it's position be changed.
- The picture zoom feature does not work with a Video CD.
- During picture zoom, "ZOOM1" or "ZOOM2" appears on-screen for 5 seconds.
- Zooming, on some discs, may result in poor picture quality, or may not operate at all.

# Multiple Angle Viewing (DVD only)

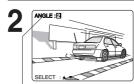
DVDs may contain scenes shot from multiple camera angles allowing the same scene to be viewed at different angles. You can view these angles, if available, using the ANGLE button



### Press ANGLE

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

 Display disappears after 5 seconds.

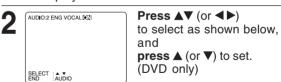


Press ▲▼ to select the desired angle.

Number of angle being played back.

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

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



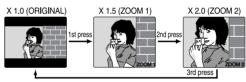
- DVD Karaoke (1 vocal) VOCAL ON → VOCAL OFF
- DVD Karaoke (2 vocals) VOCAL V1→ VOCAL V2→VOCAL V1+V2→VOCAL OFF
- Video CD LR -- L --

## **Picture Zoom (DVD-Video 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)

Castles

**Birds** 

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.)

TITLE MENU Dogs Lovers

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

<Example>

of the world

<Example>

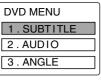
TITLE MENU Castles Dogs Birds Lovers **Birds** 

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

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

# **DVD Menu (DVD only)**

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



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

<Example>

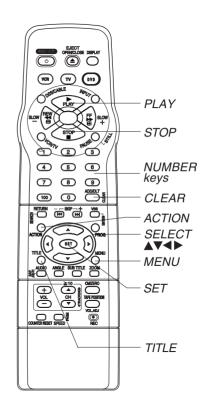
DVD MENU 1. SUBTITLE 2. AUDIO 3. ANGLE

<Example>

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

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

Repeat step 2 if there is more than one menu.



# Program Play (Video CD/CD only)

You can program specific tracks and order of play.

Press ACTION to display DVD MAIN MENU.

DVD MAIN MENU DISC LANGUAGES
AUDIO OUTPUT
STILL MODE :
TV MODE :
PARENTAL LOCK :
PLAY MODE :4:3 Letterbox A ▼ SET ACTION

Press AV to select "PLAY MODE." and press SET to display.

PLAY MODE PROGRAM PLAY SELECT A ▼ SET ACTION SET

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

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

Press **▲▼**◀ ▶

to select a track number (Track numbers on disc are displayed.), and press SET.

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

5 PROGRAM PLAY DISC PROGRAM DISC 6 11 16 2 7 12 17 3 8 13 18 4 9 14 19 5 10 15 20 8 6 13 2 5 15 1 3 CLEAR LAST CLEAR ALL SELECT : A START A ▼ 4 ► SET ACTION SET

Press AV4

to select "START," and press SET to start play of programs in the sequence selected.

 To cancel, press STOP during play, then press CLEĂR.

### Notes

- Up to 15 tracks can be programmed.
- "◀" or "▶" (depending on disc) indicates additional PROGRAM PLAY screen.

Press AV for next or previous screen.

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

Ready Checklist

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

# Program Repeat Play (Video CD/CD only)

- Do operation steps 1 through 5 at left on this page.
- Press DISPLAY to display Disc Information screen (Disc Information Screen)



- Press DISPLAY to display DECK Information screen
- Press SET to enter Select mode. Cursor move to "OFF." (DECK Information Screen)



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



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

# **Disc Operation (continued)**

# Random Play (Video CD/CD only)

Ready Checklist

DECK is in DVD mode, press DVD.

Tracks are played in a random order.

Press ACTION\*
to display DVD MAIN MENU.

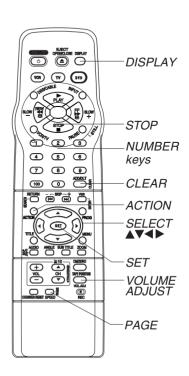


Press ▲▼ to select "PLAY MODE," and press SET to display.



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

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



# Setting the VOLUME ADJUST

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

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

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

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

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

### Notes

- This feature is available only for Dolby Digital sound tracks.
- When audio equipment is connected, setting the Sound Output level to "OFF" is recommended.
- If the sound becomes abnormal while playing a disc, set the Sound Output level to "OFF."

# **DVD-Audio Operation**

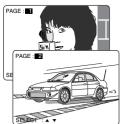
This DECK, equipped with a 192 kHz/ 24 bit Audio D/A converter, supports DVD-Audio recorded with high quality sound.

The DVD-Audio feature includes "Still Image Skip" and "Bonus Group Playback" functions. (See below.)

Please refer to "Basic DVD Operation" on pages 22 and 23.

### Still Image Skip

DVD-Audio still images (only if contained) can be skipped over.

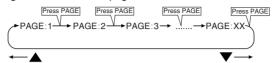


#### Press PAGE

in Play or Pause mode to display the still image and page

Each press of PAGE changes page number as shown below.

Pressing PAGE on the last page returns to PAGE 1.



Still Image Skip function not available with all discs.

### Bonus Group playback

Some DVD-Audio discs contain bonus groups. To enjoy these groups you may have to enter a password. Refer to the disc's jacket.

Press DISPLAY in stop mode to display "On-Screen Displays." During playback, Bonus Group tracks cannot be selected.

GROUP NEXT: DISPLAY

**Press** ▲▼ to select "GROUP," and **press** *SET*. Press ▲▼ or *NUMBER kevs* to select bonus group

number, and press SET (see pp. 42, 43.)

Notes

- If the proper secret code is already entered. Bonus Group tracks can be selected. (Secret code enter screen is skipped.)
- This code is specifically for the disc and differs from Parental Lock secret code (p. 48). Please refer to disc jacket instructions.



### Press NUMBER kevs

to enter bonus group secret code, and press SET.

#### To Make Corrections

**Press** ◀ repeatedly to move the cursor.

Press NUMBER kevs to make the correction.

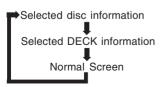
• When the proper secret code has been entered, Bonus Group track 1 playback Note begins. If a mistake is made, the secret code enter screen is redisplayed.

**Press CLEAR** to return to normal screen.

# **DVD Operation using On-Screen Displays**

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

- **1** Press *DISPLAY\** in Play or Stop mode to display "On-Screen Displays."
  - Each press of DISPLAY changes the on-screen display as follows. (Refer to pp. 43, 44.)





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

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

### <Example of DVD-Video>



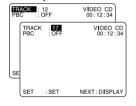
- When numbers are displayed (e.g. title number), NUMBER keys are also available.
- If the number entered is not on the disc, the entry will have no effect.
   Re-enter the correct number.
- For more details, refer to
   the disc operation information.

# < Example of DVD-Audio the disc operation information



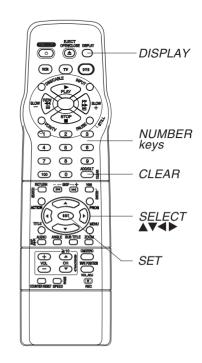
To return to normal screen, press CLEAR or DISPLAY repeatedly.

# <Example of Video CD>



# Ready Checklist

☐ DECK is in DVD mode, press DVD.



# 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.

# noration

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

### ■ Disc information screen (for DVD-Video)

### 1 TITLE No.

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

### 2. CHAPTER No.

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

### 3. Disc currently being played

### 4. Elapsed playing time

The screen may be changed by selecting the elapsed time.

- Select the elapsed playing time ("xx:xx:xx"), and press SET.
- Change the elapsed time by **pressing NUMBER keys**. Hours → Minutes → Seconds are entered in order.

If the time entered is not on the disc, the entry will have no effect. Re-enter the correct time

Hour Minutes Seconds

• This function does not work with some discs.

# ■ Disc information screen (for DVD-Audio)

### A. GROUP No.

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

### B. TRACK No.

- Select "TRACK", and press SET.
- Change the No. by pressing ▲▼ or NUMBER kevs. and press SET.

### C. Disc currently being played

### D. Elapsed playing time

The screen may be changed by selecting the elapsed time.

- Select the elapsed playing time ("xx:xx:xx"), and press SET.
- Change the elapsed time by pressing NUMBER keys.

Hours → Minutes → Seconds are entered in order.

If the time entered is not on the disc, the entry will have no effect. Re-enter the correct time.

Hour Minutes Seconds

• This function does not work with some discs.

## ■ Disc information screen (for Video CD/ CD)

#### a. TRACK No.

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

### b. Playback control ON/OFF

[Video CD with playback control only]

ON Video CD menu play is displayed.

OFF Video CD menu play is not displayed.

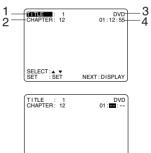
### c. Disc currently being played

Video CD CD

### d. Elapsed playing time



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



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





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



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

### ■ DECK information screen (for DECK)

### 1. Repeat Play

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

DVD-Video	CHAPTER	TITLE	OFF
DVD-Audio	TRACK	GROUP	OFF
Video CD/CD	TRACK	DISC	OFF

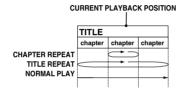
2. Play mode [Video CD/ CD only] (See p. 39 or 40.)

PROGRAM PLAY	program play	
RANDOM PLAY	random play	
	normal play	

# 1 PLAY : CHAPTER SELECT: A V SET : SET END : DISPLAY

### For your reference

• CHAPTER/TITLE REPEAT PLAY (DVD-Video)



2 PLAY

RANDOM PLAY

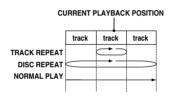
SET : SET END : DISPLAY

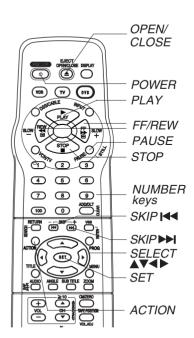
• TRACK/GROUP REPEAT PLAY (DVD-Audio)



	GROUP				GROUP		
	track	tra	ck	track	track	track	track
TRACK REPEAT		ightharpoonup	-5				
GROUP REPEAT		<b></b>	-				
NORMAL PLAY							-

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





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

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

# MP3/WMA/JPEG Playback Operation

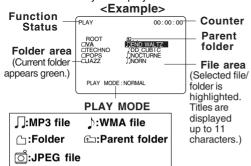
This unit can play MP3/WMA/JPEG format CD-R or CD-RW recorded for personal use on a PC, etc. Some discs may not play due to the condition of the recording.

Press POWER on the remote or DECK.

Press OPEN/CLOSE, then place an MP3/WMA/JPEG disc into the disc tray.

Press OPEN/CLOSE to close.

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



<Example>

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

-□VA -□PEND\_WALTZ -□DD\_CUBIC -□NOCTURNE -□NORN -□TECHNO

- POPS

-□JAZZ

#### Notes

- Only File (not Folder) area operation is possible.
- Files are displayed in the following order: (!...0,1....9,A,B.....Z).
- Select file (During STOP mode)
  - 1) Press ▲▼ to select an MP3/WMA file (∏/♪).
  - → MP3/WMA Playback (see right)
  - 2) Press ▲▼ to select a JPEG file (☉).
    - → JPEG Playback (see p. 46)
  - 3) Press SKIP ▶►I (next) or I◄ SKIP (previous) to skip a file/folder page (7files) in the File area.
  - Select folder (During STOP mode)
  - 1) Press ▲▼ to select a folder ( 🗀 ).
  - 2) **Press SET** to display files/folders contained in the folder.
  - Select parent folder (During STOP mode)
  - 1) **Press** ▲▼ to select a folder (♠).
  - Press SET to make changes to the previous directory display.

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

# MP3/WMA Playback

Do steps 1~3 on left.

Press ▲▼ to select an MP3/WMA file (∏/♪).

(During STOP mode)

- Press SET or PLAY to start playback.
- Forward/Reverse Search
  Press FF/SLOW+ or REW/SLOW- during play.
  Press PLAY to release.
  - Search speed, slow at first, increases with each additional press of the button up to 5 levels.
- Forward/Reverse Track Skip
  - Press SKIP ▶▶I or I◀◀ SKIP during play. Each press skips a track.
  - If pressed within first 3 seconds of playback, skips to the previous track. If over 3 seconds, returns to top of track. (I◄◄ SKIP only.)
  - Put DECK in Stop mode before performing folder/file selection (see step 4.)
- Pause

Press PAUSE during play.
Press PLAY to release.

- Press STOP to stop play.
- Press OPEN/CLOSE to eject the disc.
  The MP3/WMA/JPEG MENU is closed automatically.

Note

- Copyright protected files and files containing errors cannot be played back. The DECK skips to the next file.
- Select PLAY MODE [MP3/WMA Playback]
  (During STOP mode)
  - 1) Press ◀▶ to move cursor to PLAY MODE.
  - Press ▲▼ to select the desired PLAY MODE (see below).

#### [PLAY MODE]

### NORMAL:

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

### SINGLE REPEAT:

The selected MP3/WMA file is played back repeatedly.

#### **FOLDER REPEAT:**

The MP3/WMA files contained in the selected folder are played back repeatedly. However, folders below the selected folder are not played back.

#### **DISC REPEAT:**

All MP3/WMA files are played back repeatedly.

# MP3/WMA/JPEG Playback Operation (continued)

# JPEG Playback

You can play back JPEG images.

Displayable Image Size: 32x32~7680x7680 pixels



Some JPEG format may not be played back

### Do steps 1~3 on page 45.

1 -

Press ▲▼ to select an JPEG file (🗟).

Press SET or PLAY.

Selected JPEG file is displayed.

[JPEG Playback Screen]



<Example>

- Returned on the MP3/WMA/JPEG MENU ⇒ Press STOP. (See p. 45)
- Next/Previous Search

  ⇒ Press SKIP ▶▶ or I ◀ SKIP.
- Start Slide-show ⇒ Press FF/SLOW+ or REW/SLOW-. (below)
- Enlarging an image → Press ZOOM. (P. 47)
- Rotating an image ⇒ Press ANGLE. (P. 47)
- **Press** *STOP* to return the MP3/WMA/ JPEG MENU.

## JPEG Slide-show

## (During JPEG Playback.)

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

Press FF/SLOW+ or REW/SLOW-.

<Example>



Image changes every 3 seconds.

- Cancel slide show
  - → Press STOP to return the MP3/WMA/ JPEG MENU. (See p. 45)
- Still picture
  - ⇒ Press STILL (only SLIDE).
  - **⇒ Press PLAY** to release.
- **■** Forward/Reverse File Skip
  - → Press SKIP ▶▶I or I◄◄ SKIP.
    Each press skips a file.

Each press skips a lile.

Press ACTION to return to the DVD MAIN MENU.

# ■ Select PLAY MODE [JPEG Slide-show] (During STOP mode) (See p. 45)

- 1) Press ◀▶ to move cursor to
- Press ▲▼ to select the desired PLAY MODE (see below).

### [PLAY MODE]

#### NORMAL:

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

#### SINGLE REPEAT:

The selected JPEG file is played back repeatedly.

#### **FOLDER REPEAT:**

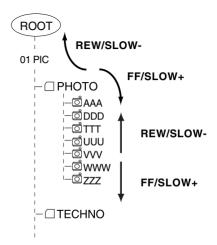
The JPEG files contained in the selected folder are played back repeatedly. However, folders below the selected folder are not played back.

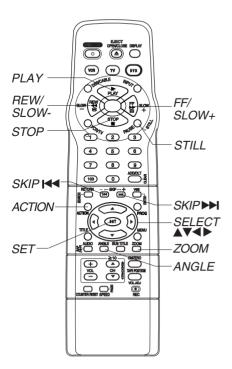
#### DISC REPEAT:

All JPEG files are played back repeatedly.

### <Example>

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





### JPEG Zoom

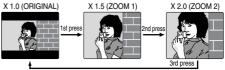
### (During JPEG Playback.)

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

### Set Zoom size.

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

- ⇒ Press STOP to return the MP3/WMA/JPEG MENU.
- You can enlarge the center portion of the image to one of 2 magnifications.



■ Use the A, V, 

and buttons to move the position up, down, left and right. (Position cannot be changed on X1.0 ORIGINAL images.)

### JPEG Rotation

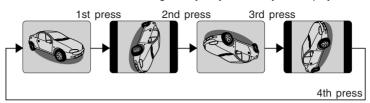
### (During JPEG Playback.)

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

### Set rotation.

**Press ANGLE** repeatedly to change display as below.

- ⇒ Press STOP to return the MP3/WMA/JPEG MENU.
- Operation can be done during Zoom (above).
- The vertical/horizontal ratio of rotated JPEG images may vary when they are displayed.



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



Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries. WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.



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

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

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

# Ready Checklist

DECK is in DVD mode, press DVD.

# **DVD Lock (DVD-Video only)**

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

Press ACTION\* to display DVD MAIN MENU.



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

### To continue viewing a blocked program for now.

Press ▲▼ to select "YES" and SET. Then, enter your 4 digit secret code (see step 3 left). programs cannot be viewed.



# Press **▲**▼



depending on the disc.

When "NO" is selected, blocked

### <When blocked programs>

DVD MAIN MENU

DISC LANGUAGES AUDIO OUTPUT STILL MODE

TV MODE :4:3 Letterbo SET ACTION

· ALITO

to select "PARENTAL LOCK." and

press SET to display.

3 ENTER 4-DIGIT CODE E---ENTER:0-9 ACTION

1) Press NUMBER kevs 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
- · Take care that you are not observed entering the

move the cursor. Press NUMBER kevs to make the correction.

To Make Corrections

secret code.



### Press ▲▼◀▶

to select rating level, and press SET to select "LOCKED" or "UNLOCKED"

**LEVEL 0**: LOCK ALL. Playback of all DVDs. CDs. Video CDs, WMA, MP3 and JPEG is prohibited. (Use to prohibit play of mature theme DVDs not

encoded with rating level.)

**LEVEL 1**: mature theme DVDs **LEVEL 2**: DVDs expressly for children can be played back. LEVEL 3 to 7 : DVDs for general audiences/children can be

played back. (DVDs with mature content are prohibited.)

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

# Change your secret code

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

# Note

DO NOT forget your secret code.

# **Settings for DVD Operation**

Press ACTION to display DVD MAIN MENU.

DVD MAIN MENU

BISC LANGUAGES

AUDIO CUMPUT
STILL MODE : 4:3 Letterbox
PARENTAL LOCK: LEVEL 8 #

SELECT : \$\frac{1}{2}\$ ET : \$\

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

### **DISC LANGUAGES** (See below)

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

### AUDIO OUTPUT (See p. 50.)

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

### STILL MODE (See p. 53.)

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. 53.)

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

# Disc Languages (DVD only)

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

3



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

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

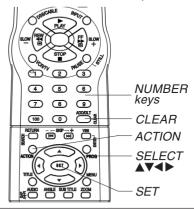
Press ACTION to redisplay DVD MAIN MENU and go to step 2 to setup another item.

Or, press ACTION twice to exit.

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

# Ready Checklist

☐ DECK is in DVD mode, press DVD.



### "AUDIO" selections

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

"SUBTITLE" selections

(Factory preset: AUTO)
To select the subtitle language.
AUTO: Same language selected for "AUDIO"

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

English/Spanish/French/Japanese
OTHER \*\*\*\*: Other language selection\*1

### "MENUS" selections

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

# To enter OTHER \*\*\* code number.

Press NUMBER keys (Please refer to language codes on p. 54).
To make corrections, press ◀ repeatedly to delete language code number, and correct.

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

# **Settings for DVD Operation (continued)**

# **Audio Output**

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

# Press ACTION\*

to display DVD MAIN MENU.

DVD MAIN MENU
DISC LANGUAGES
AUDIO OUTPUT
STILL MODE : AUS Letterbox
PARENTAL LOCK: LEVEL 8 
SELECT : A Y
SELECT : SET
EST ACTION

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, no digital audio is output. (Factory preset)

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

(Digital output of PCM audio is restricted to 48 kHz/16 bit or below for copyright protection.)

### ■ "Dolby Digital" selections

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

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

#### "dts" selections

**Bitstream:** DTS bitstream is output. (Factory preset) **PCM:** When you have connected a amplifier that

doesn't have a built-in DTS decoder.

### "DRC (Dynamic Range Compression)" selections

OFF: Normal audio range is selected. (Factory preset)
 ON: For dynamic sound even at low volume, this is useful for late-night listening. [Dolby Digital DVDs only].

### ■ SPEAKER SETUP

**⇒** See pages 51, 52, 53.

Press ACTION to redisplay DVD MAIN MENU and go to step 2 to setup another item.

Or, **press ACTION** twice to exit.

Ready Checklis		Ready	Checklis
----------------	--	-------	----------

☐ DECK is in DVD mode, press DVD.

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

- Make settings according to amplifier connected to optical audio output as shown in above table.
- \*1 When connecting an amplifier (with an optical digital input connector) which does not contain the Dolby Digital or DTS decoder, be sure to select "PCM". If "Bitstream" is selected, starting DVD play may cause such a high level of noise as to be harmful to your ears and damage the speakers.
- \*2 When a DTS decoder is connected, please select "Bitstream" in "dts".

# **Speaker Output Setup**

Set the number of speakers connected to the receiver (amplifier, decoder.) (See pp. 14, 15.)

# Do steps 1~3 on page 50.



Press ▲▼
to select "SPEAKER
SETUP," and
press SET to display
SPEAKER SETUP
screen.



Press ▲▼
to select "SPEAKER
OUTPUT,"
and
press SET repeatedly.
(See below.)

### **■SPEAKER OUTPUT**

MULTI-CHANNEL: (Factory preset)

Use this setting when 3 or more speakers are connected. In this case, it is necessary to set [SPEAKER SIZE], [OUTPUT BALANCE], and [DELAY TIME].

### 2-CHANNEL:

When 2 speakers are connected, it is not necessary to set [SPEAKER SIZE], [OUTPUT BALANCE], and [DELAY TIME] (these setting menu are not displayed.)

A Press ACTION three times to exit.

# **Speaker Size Setup**

Speaker frequency properties and the existence of speakers is set.

# Do steps 1~2 of "Speaker Output Setup" above.

# SPEAKER SIZE FRONT FLAGGE CENTER : LARGE SUBWOOFER : DAN SELECT : A Y SET : SET END : ACTION

#### Press **▲**▼

to select "SPEAKER SIZE," and **press SET** to display SPEAKER SIZE screen.

### Press ▲▼

to select an item, and **press SET** repeatedly. (See below table.)

Menu item	Setting	Remark
FRONT	LARGE(factory preset)	When the front speakers (R/L) supports low-frequency (under 100 Hz) reproduction.
	SMALL	Select when the front speakers (R/L) does not support low-frequency reproduction.**
	LARGE(factory preset)	When the center speaker supports low-frequency (under 100 Hz) reproduction.
CENTER		Select when the center speaker does not support low-frequency reproduction.
	NONE	If there is no center speaker.
	LARGE(factory preset)	When the surround speakers (R/L) supports low-frequency (under 100 Hz) reproduction.
SURROUND	SMALL	Select when the surround speakers (R/L) does not support low-frequency reproduction.
		If there is no surround speaker.
SUBWOOFER		If there is a subwoofer.
SUBWOOFER	OFF	If there is no subwoofer speaker. **

\*\*If SUBWOOFER is set to "OFF," the front speakers are set to "LARGE" automatically.

(3)

**ACTION** 

SELECT ▲▼◀▶

SET

4 5

7 8 9

(100)

AVIDIO ANGLE SUBTITLE ZOOM

# **Settings for DVD Operation (continued)**

# **Output Balance Setup**

Adjust the volume level output from the speakers. To adjust, play a disc or set the "TEST SIGNAL" (p.53) to ON. Then adjust while confirming the volume. (Even if "OFF" or "NONE" is set in "SPEAKER SIZE." the speaker OUTPUT BALANCE can still be set.)

Do steps 1~2 of "Speaker Output Setup" on page 51.

2

OUTPUT BALANCE
CENTER : 0dB
SURROUND(R) : 0dB SURROUND(L) : 0dB SUBWOOFER : 0dB TEST SIGNAL : 0FF
SELECT : A ▼ SET : SET END : ACTION

Press ▲▼\*

to select "OUTPUT BALANCE," and **press SET** to display OUTPUT BALANCE screen.

Press ▲▼

to select an item, and **press SET** repeatedly. (See below table.)

Menu item	Setting	Remark	
CENTER		Adjust so that the center speaker volume is virtually the same level (-6dB ~ +6dB) as the front speakers.	
SURROUND(R)	→-6dB~+6dB	Adjust so that the surround speaker(R) volume is virtually the same level (-6dB ~ +6dB) as the front speakers.	
SURROUND(L)	<b>0dB</b> (factory preset)	Adjust so that the surround speaker(L) volume is virtually the same level (-6dB ~ +6dB) as the front speakers.	
SUBWOOFER	oub(lactory preset)	Adjust so that the subwoofer speaker volume is optimum. However, because no test sound will come from the subwoofer, play a disc to confirm, then adjust.	

TEST SIGNAL: Switch test signal used for OUTPUT BALANCE setting to "OFF" or "FRONT(L)"....

→ See page 53.

**3** Press ACTION four times to exit.

# **Delay Time Setup**

To enjoy 5.1 CH sound, it is ideal to place all speakers, except the subwoofer, in a circular arrangement. (See <Speaker Position> p. 53.) If this is not possible, setting Delay Time gives the sound output a delayed effect which gives you the illusion of the ideal listening position. (See right.)

Do steps 1~2 of "Speaker Output Setup" on page 51.

Press ▲▼
to select "DELAY TIME," and press SET
to display DELAY TIME screen.

Press ▲▼

to select an item, and **press SET** repeatedly. (See below.)

Menu item	Setting	Remark
CENTER		Setting a delay effect.
SURROUND		<b>0ms</b> (Factory preset)

**Press** ACTION three times to exit.

### [See <Speaker Position> p.53.]

•  $\mathbf{B}$ ,  $\mathbf{G} \ge \mathbf{A}$ : Delay time as 0ms (Factory prest)

• **(B)**, **(Q)** < **(A)** : Find the distance **(3)**, **(G)** in the table (below) and change to the recommended setting.

### **B** Center speaker

Distance B1	Setting
Approx. 50 cm (1½ feet)	1.3 ms
Approx. 100 cm (3 feet)	2.6 ms
Approx. 150 cm (5 feet)	3.9 ms
Approx. 200 cm (6 feet)	5.3 ms

# Surround speaker

Distance 🕞	Setting
Approx. 200 cm (6 feet)	5.3 ms
Approx. 400 cm (12 feet)	10.6 ms
Approx. 600 cm (18 feet)	15.9 ms

## **Test Signal Setup**

This feature assists in the setting of OUTPUT BALANCE. Starting with (L) front speaker, a test sound is output in clockwise order. While the test signal is output, adjust the output of the center speaker and Surround speaker (R/L).

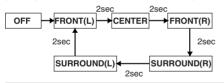
(See "Output Balance Setup." P. 52.)

# Do steps 1~2 of "Output Balance Setup" on page 52.

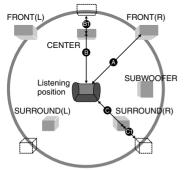


Press ▲▼
to select "TEST
SIGNAL," and
press SET.
(See below.)

No sound will come from the subwoofer. Adjust as desired when playing a disc. While the TEST SIGNAL is output, if the setting change in the OUTPUT BALANCE (p. 52) is under 2 seconds, the output will switch to the next speaker. The speaker name from which the TEST SIGNAL is currently being output is displayed. (Example: "TEST SIGNAL: CENTER")



# **3** Press ACTION four times to exit.



<Speaker Position>

### Still Mode

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

### Press ACTION

to display DVD MAIN MENU.



Press ▲▼

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

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

FIELD: "FIELD" (Field still) is always selected.

This setting will reduce jitter when compared with "AUTO" on some discs.

FRAME: "FRAME" (Frame still) is always selected.

Some texts and fine patterns will be seen clearly when compared with "AUTO" on some discs.

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

### **TV Mode**

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

### Press ACTION

to display DVD MAIN MENU.



Press ▲▼ to select "TV MODE," and press SET repeatedly for mode.

mode. (See below.)

4:3 Pan & Scan (Factory preset) :

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

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

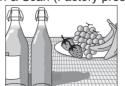
#### 4:3 Letterbox :

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

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

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

TV Mode Example [Pan & Scan (Factory preset)]





# Language Code List

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

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

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

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

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

# For Your

# **Warning and Instruction Displays**

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

OSD	Caution	Page
PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set	24
PLEASE PREPARE FOR TIMER REC	If DECK is not in Stop mode or a cassette with record tab is not inserted 2 minutes before a Timer Recording is about to begin	24 25
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or DECK, and a cassette is inserted with no record tab	6
NO CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or DECK without a cassette inserted	20 21
TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC	If you press STOP or POWER during a Timer Recording (visible in VCR mode only)	25
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL	If head cleaning becomes necessary while playing back a tape	6
VCR LOCK ACTIVATED	If you press a function button other than STOP/ EJECT or POWER while DECK is in VCR Lock mode	33
REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY USE DVD : DVD KEY	If you press an invalid key on the remote while in CABLE/DSS mode	28 29 34
REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE DVD : DVD KEY	If you press an invalid key on the remote while in TV mode	28 29 34
PLEASE CHECK THE DISC, AND FOR STAINS OR SCRATCHES ON DISC	If you press PLAY, and DECK reads data from a stained or scratched disc in DVD mode.	4
THIS DISC MAY NOT BE PLAYED IN YOUR REGION	Playback of a disc with different region number was attempted. Only discs marked region "1", "ALL", or those that include "1" are playable on this DECK.	3
THIS TYPE OF DISC CANNOT BE PLAYED. PLEASE INSERT A DIFFERENT DISC	An unusable disc is inserted in the DECK.	4
CANNOT PLAY THIS FILE	This file format cannot be played. (Appears during MP3/WMA/JPEG file playback)	45
THIS FILE IS PROTECTED	This file is copyright protected and cannot be played back. (Playback is prohibited.) (WMA only)	45
IT IS PROHIBITED TO COPY DVD/VIDEO CD/CD TO VHS	If you press REC in DVD mode	21

# **Before Requesting Service**

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

Power	Correction
No power	Completely insert Power Plug into an AC outlet.     Set POWER button to on.     Make sure power source is active.
Power turns itself off	Auto power-off (shutoff) occurs after about 5 min. in DVD mode with no operation, or if there is no broadcast signal in TV or Playback mode. Turn the power back on. (pp. 23, 33)
Recording & Playback	Correction
TV program cannot be recorded	Check connections between DECK, external antenna, and TV. Check channel selections. Make sure your antenna system (CABLE or TV) is correctly set. (Channels [p. 18]) Make sure cassette record tab is intact. (p. 6)
Timer recording cannot be performed	<ul> <li>Confirm that clock is set to current time and date.</li> <li>Make sure Cable/DSS box (if used) is left on and tuned to channel to be recorded.</li> <li>Set recording start/stop times correctly. (p. 24)</li> <li>Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored.</li> </ul>
There is no playback picture, or the playback picture is noisy or contains streaks	<ul> <li>Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (p. 16) or select LINE.</li> <li>Set VCR/TV selector to "VCR."</li> <li>Adjust TRACKING control in either direction. (p. 6)</li> <li>Try Head Cleaning. (p. 6)</li> </ul>
During special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control	Set TV's Vertical Hold Control to MANUAL, then adjust.
DECK cannot be controlled	<ul> <li>Make sure DECK power is on.</li> <li>Check Remote batteries.</li> <li>Make sure VCR LOCK is set to off. (p. 33)</li> <li>Make sure Remote is in proper mode. (p. 28)</li> <li>Make sure Timer Recording is not in progress.</li> </ul>
Remote Control	Correction
DECK cannot be remote controlled	<ul> <li>Make sure DECK power is on.</li> <li>Make sure Remote is in VCR mode.</li> <li>Aim Remote Control directly at remote sensor on DECK. (p.9)</li> <li>Avoid any object blocking signal path.</li> <li>Check Remote batteries. (p. 4)</li> <li>Exposing DECK remote sensor to direct fluorescent or outdoor light may cause signal interference.</li> </ul>
PROG buttons do not respond	PROG functions are not available in COMPONENT Video Output and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10) Check Remote batteries. (p. 4) Press VCR or DVD button for DVD/VCR mode. (p. 28)

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> <li>This DECK cannot play discs other than DVDs, Video CDs and CDs.</li> <li>The disc may be dirty and require cleaning.</li> </ul>
Play starts but then stops immediately	Be sure disc is installed with label side up.
Picture is distorted during rapid advance or rapid reverse	The picture will be somewhat distorted at times: this is normal.
No Forward/Reverse Scene Search play	Some discs may have sections which prohibit Forward/Reverse Scene Search. (p. 23)
Play does not start even when title is selected	Confirm the "DVD LOCK" setting. (p. 48)
Audio soundtrack and/or subtitle language is not the one selected at the initial settings	<ul> <li>If the audio soundtrack and/or subtitle language selected at DVD initial settings does not exist on the disc, it will not be accessible.</li> </ul>
No subtitles	<ul> <li>Subtitles appear only when available on disc.</li> <li>"OFF" is selected at the changing subtitle language. Select "ON" at the "Subtitle Languages" section (p. 36) to display the subtitles.</li> </ul>
Alternative audio soundtrack (or subtitle) language cannot be selected	<ul> <li>Alternative language cannot be selected with discs which do not contain more than one language.</li> <li>For some discs, alternative language cannot be selected with the AUDIO or SUB TITLE button.         Try selecting it from the DVD MAIN MENU if available.     </li> </ul>
Angle cannot be changed	This function is dependent on software availability. Even if disc has multiple angles, they may be recorded for specific scenes only (ANGLE indicator on DECK lights up). (p. 37)
Miscellaneous	Correction
Programs cannot be viewed on TV	<ul> <li>Make sure TV is set to output of DECK.</li> <li>Check connections between DECK, external antenna, and TV.</li> <li>Set VCR/TV selector to "TV." (p. 21)</li> <li>Make sure proper signal source is selected.</li> </ul>
Video cassette cannot be inserted	<ul> <li>Insert the cassette with window side up; record tab facing you.</li> </ul>
Video cassette ejects when a recording is started or the power is turned off for timer recording	Make sure cassette record tab is intact. (p. 6)
In Stop mode, the motor (CYLINDER) continues to rotate	<ul> <li>To enable Quick play mechanism, the cylinder will rotate for about 3 minutes. This reduces response time from Stop to Play mode.</li> </ul>
The disc cannot be removed	First, unplug DECK. Then, prepare a rigid wire (e.g. an extended paper clip) and, applying moderate force, insert it straight into the hole at the base of the tray. The tray will eject a little. Now, pull the tray all the way out and remove the disc. (p. 9)

If you cannot resolve the problem, please call the Customer Call Center for product assistance at 1-800-211-PANA (7262). To locate an authorized servicenter, please call toll free 1-800-211-PANA (7262).

or send e-mail to : consumerproducts@panasonic.com

# **Limited Warranty**

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA One Panasonic Way Secaucus, New Jersey 07094 PANASONIC SALES COMPANY, DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO, INC., AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina. Puerto Rico 00985

# Panasonic/Quasar Video Products Limited Warranty

#### **Limited Warranty Coverage**

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

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

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product or arrange for in-home service, as applicable, during the warranty period.

If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

#### Carry-In. Mail-in or In-Home Service

For Carry-In, Mail-In or In-Home Service (as applicable) in the United States call toll free contact number listed above or visit Panasonic Web Site: http://www.panasonic.com

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910. In-Home service, if applicable, requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain in-home repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

#### **Limited Warranty Limits And Exclusions**

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

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

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

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

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

# **Customer Services Directory**

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

1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST. or send e-mail: consumerproducts@panasonic.com

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

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

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

### Accessory Purchases:

1-800-332-5368 (Customer Orders Only)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032
(6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)
(Visa, MasterCard, Discover Card, American Express, Check)

#### Service in Puerto Rico

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

# Spanish Quick Use Guide/ Guía para rápida consulta

### CONEXIONES/CONFIGURACION INICIAL (READY TO PLAY)

Realice la conexión de la antena o TV por cable antes de enchufar el cable de CA.

El DVD/VCR iniciará automáticamente la fijación de los canales y del reloj al enchufar el cable de CA.

### **CONEXIONES**

### Para Ant/Cable → DVD/VCR → TV

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



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

### **CONFIGURACION INICIAL**

- 1 Encienda el TV y cambie al canal 3.
- 2 Enchufe el cable de CA. El DVD/VCR se encenderá e iniciará las fijaciones de los canales y del reloj.
  - Si no aparece la pantalla de abajo, compruebe la conexión del DVD/VCR-TV y si el canal del TV está a 3 intennte cambiando al canal 4
  - Para cambiar el canal de salida del DVD/VCR, consulte las instrucciones de "Canal de salida del VCR" (informaciones en inglés página 19).

### Enchufe el cable de CA.



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

Para cambiar el idioma, seleccione la pantalla MENU (informaciones en inglés página 18).

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

#### Nota

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



Terminal IN FROM ANT. Estuche convertidor

de TV por cable

Entrada (IN) desde

DVDAGE

Talavien

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



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

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

### AJUSTE MANUAL DEL RELOJ

Si la fijación ha sido incompleta.

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



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

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

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

#### - PRECAUCIÓN -

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

### Operaciones básicas para la reproducción

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

### Detalles especiales durante la grabación

■ Presione FF/SLOW+ o REW/SLOW- para búsqueda de escenas hacia delante/ hacia atrás. Presione PLAY para liberar. Durante la búsqueda, cada vez que presione FF o REW se cambia la velocidad como sigue:

[SLP] aprox. 21X ↔ aprox. 9X [LP] aprox. 9X ↔ aprox. 7X [SP] aprox. 7X ↔ aprox. 3X Si la imágen se interrumpe con la velocidad de 21X, 9X o 7X, cambie la velocidad a 9X, 7X o

Presione PAUSE/STILL para imagen Fija (Congelada).

Presione PLAY para liberar.

- Presione PAUSE/STILL en el modo de imagen fija para imágenes cuadro a cuadro. Presione PLAY para liberar.
- Presione FF/SLOW+ o REW/SLOW- en el modo de imagen fija para cambiar la velocidad de las imágenes a cámara lenta.
- 3 Presione STOP para detener el cassette.
- Presione REW/SLOW- o FF/SLOW+ en el modo de parada para rebobinado/avance rápido del cassette.
- Presione EJECT en el control remoto, o STOP/EJECT en el DECK para expulsar el cassette.

### Operaciones básicas para la grabación

- 1 Inserte el cassette con lengüeta de protección de grabación (página 6).
- 2 Presione CH ▲/▼, o las teclas de números para seleccionar el canal.
- **3** Presione SPEED para seleccionar la velocidad de grabación (página 6)
  - SP = Reproducción estándar.
  - LP = Larga duración,
  - SLP = Superlarga duración.
- 4 Presione REC para comenzar a grabar.
  - Para eliminar escenas indeseadas, presione PAUSE/STILL para hacer una pausa, y al presionar nuevamente continua la grabación.
  - No podrá ver otro canal durante la grabación.
- 5 Presione STOP para detener la grabación.

# Programación fácil para la grabación con temporizador

1 Presione PROG

para visualizar la pantalla de Programacion.



- 1) Para ajustar la FECHA de grabación, presione ▲▼ para seleccionar:
  1-31 = una vez, o
  DIARIO = a la misma hora de lunes a viernes, o
  SEMANA = a la misma hora cada semana y
  presione SET para ajustar.
- 2) Para ajustar los ítems que quedan, presione ▲▼ para seleccionar y presione SET para ajustar los tiempos de INICIO/PARADA, CANAL, o entrada de LINEA (página 35), y velocidad del cassette (SP, LP, SLP).

  Presione PROG para finalizar PROGRAM.

### Presione **▲**▼

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

presione SET para ajustar.

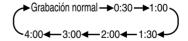
Luego repita el paso 2.

Presione nuevamente PROG para salir.

### ■ Grabación de un toque

Presione REC repetidamente para ajustar la hora de grabación (30 min - 4 horas).

 La videograbadora termina la grabación a una hora programada.



# Spanish Quick Use Guide/ Guía para rápida consulta

### Operaciones básicas del DVD

- Presione POWER en el control remoto o el aparato.
- Presione DVD para seleccionar el modo DVD.
- 1) Presione OPFN/CLOSE
  - 2) Ponga un disco en la bandeia de disco.
  - Suiete el disco sin tocar ninguna de sus superficies, póngalo con el lado donde esté impreso el título hacia arriba, alinéelo con las quías y póngalo en su posición apropiada. Disco de 3" (8 cm) / Disco de 5" (12 cm)
- Presione PLAY para iniciar la reproducción. La bandeia del disco se cierra automáticamente.
  - · Si está usando un DVD interactivo (Interactive DVD) o un Vídeo CD con contol de reproducción (playback control) y aparece un menú de títulos (TITLE MENU) en la pantalla, siga al paso 5.
- Presione ▲▼◀ ▶ o las teclas numéricas para seleccionar el artículo deseado. Presione SET o PLAY para la reproducción. Si usa las teclas numéricas, la reproducción comienza automáticamente.
- Presione STOP para parar la reproducción.
- 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 len el modo de reproducción. Un capítulo (Vídeo DVD) o una pista (Audio DVD/Vídeo CD/CD) se salta cada ves que se oprime la tecla.

Salto hacia atrás

Presione I◀◀ SKIP en el modo de reproducción.

■Para ver una imagen fiia

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

■ Para ver imágenes cuadro a cuadro (DVD/Vídeo CD)

Presione PAUSE/STILL en el modo de imagen fija. La imagen avanza un cuadro cada vez que presiona la tecla. (Para volver a la reproducción normal, presione PLAY)

■ Para ver en cámara lenta (DVD/Vídeo CD) Presione FF/SLOW+ o REW/SLOW- en el modo de imagen fija.

(Para liberar, presione PLAY)

### Funcionnamiento del DVD utilizando visualizaciones en pantalla

Cuando se presiona DISPLAY, la visualización en pantalla muestra la información del disco (título / capítulo / número de lista, tiempo transcurrido de reproducción, audio / idioma del subtítulo, y ángulo) e información (repetir la reproducción, modo reproducción, Karaoke vocal encendido / apagado, etc.).

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

Información seleccionada del disco Información seleccionada del DECK

Pantalla normal

Presione ▲▼ (o ◀►) para seleccionar el ítem deseado.

Presione SET para ajustar.

**3** Presione ▲▼ para seleccionar el ajuste deseado

Presione SET para ajustar. Para volver a la pantalla normal, Presione repetidamente CLEAR o DISPLAY.

### <Ejemplo (Vídeo DVD)>





### <Eiemplo (Vídeo CD)>





### <Ejemplo (Audio DVD)>





### Filaciones iniciales

- Presione DVD para seleccionar el modo DVD.
- Presione ACTION en el modo de parada para visualizar MENU.
- Presione ▲▼ para seleccionar el artículo deseado. Presione SET. IDIOMAS DEL DISCO

Todos los idiomas ofrecidos en el disco pueden ser aiustados. Si el idioma aiustado no es ofrecido en el disco, se seleccionará el idioma original del disco.

SALIDA DE AUDIO

Puede usted ajustar la salida audio procedente del terminal de salida audio digital.

DETENER RASTREO

Para seleccionar "CAMPO" o "CUADRO fijo" para prevenir inestabilidad o para permitir ver textos pequeños o patrones finos claramente en el modo de imagen fiia. TV PREFERENCIA

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

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

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

# Selección de IDIOMAS DEL **DISCO [DVD solamente]**

Seleccione "AUDIO"

(Fijación de fábrica: inglés) Inglés / Español / Francés / Japonesa :

Se seleccionará el idioma Original: original de cada disco.

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

Seleccione "SUBTITULO"

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

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

Inglés / Español / Francés / Japonesa : OTRO \*\*\*\* : Se puede seleccionar el otro

idioma Seleccione "MENU"

(Fiiación de fábrica : inglés)

Inglés / Español / Francés / Japonesa :

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

### Cambio del idioma de subtítulos [Vídeo 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.

TITULO: 1 ENG ACTIVO

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 **◄** ▶ para seleccionar "ACTIVO" o "INACTIVO."

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

Presione AUDIO durante la reproducción para visualizar la pantalla AUDIO.

SONIDO: 2 ENG VOYA CONVO ELEGIR : ▲ ▼ TERMINAR : AUDIO

Presione ▲▼ (o ◀▶)

Presione ▲ (o ▼) para aiustar. (DVD solamente)

para seleccionar el ajuste deseado.

• DVD Karaoke (1 vocal) VOCAL ON ++ VOCAL OFF

DVD Karaoke (2 vocals) VOCAL V1-VOCAL V2-VOCAL V1+V2-VOCAL OFF

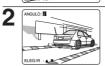
 Video CD  $IR \rightarrow I \rightarrow R$ 

### Visión desde otro ángulo [DVD solamente]

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



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



Presione ▲▼ para seleccionar el ángulo deseado.

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

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



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

Presione **▲**▼ para seleccionar idioma.

# Spanish Quick Use Guide/ Guía para rápida consulta

### Utilización de un menú de títulos [DVD solamente]

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

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



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

Presione SET para elegir.

### Utilización de un menú de DVD [DVD solamente]

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

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



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

<eiemplo>

# Ampliación de la imagen [Vídeo 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. X 1.0 (ORIGINAL) X 1.5 (ZOOM 1) X 2.0 (ZOOM 2)

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

■ Use los botones A, V, < v > para desplazar la posición hacia arriba, hacia abaio, hacia la izquierda o hacia la derecha.



pulsación

pulsación

3da pulsación I

Funcionamiento de la ejecución de MP3/WMA/JPEG

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

- Presione POWER en el control remoto o DECK.
- Presione OPEN/CLOSE y a continuacion coloque un disco MP3/WMA/JPEG en la bandeja de discos.

Presione OPEN/CLOSE para cerrarla.

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





- Eiecución MP3/WMA/JPEG (Durante el modo STOP) Presione AV para seleccionar un archivo MP3/WMA (∏/♪) o un archivo JPEG (⑤), y **presione** *SET* o
  - MP3/WMA

Búsqueda hacia adelante/hacia atrás ⇒ Presione FF/SLOW+o REW/SLOW- durante la ejecución. Salto de pista hacia adelante/hacia atrás

⇒ Presione SKIP ▶ I o I SKIP durante la eiecución.

JPEG

Búsqueda siguiente/anterior ⇒Presione SKIP ►► 0 1 SKIP. Inicie la muestra-diapositiva ⇒Presione FF/SLOW+ o REW/SLOW-Ampliar una imagen ⇒ Presione ZOOM. Girar una imagen ⇒ Presione ANGLE.

Presione STOP para detener la operación descrita arriba.

■ Seleccione MODO DE REPRODUCCION (Durante el modo STOP)

Presione ◀▶ para mover el cursor a MODO DE REPRODUCCION, y Presione ▲▼ para seleccionar el MODO DE REPRODUCCIÓN deseado.

[MODO DE REPRODUCCIÓN]

NORMAL: Todos los archivos se reproducen sólo una vez REPETICION DE UNA MUSIC:

El archivo seleccionado se reproduce repetidamente.

REPETICION DE UN ARCHIVO: Los archivos que se encuentran en la carpeta seleccionada se reproducen repetidamente.

REPETICION DEL DISCO:

Todos los archivos se reproducen repetidamente.

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

### Configuración de los altavoces

- Presione POWER en el control remoto o el aparato.
- **Presione DVD** para seleccionar el modo DVD.

AJUSTE DE ALTAVOCES

SALIDA PARA ALTAVOCES:
MULTI-CANALES
TAMAÑO DEL ALTAVO
BALANCE DE SALIDA
TIEMPO DE ALTAVO
ELEGIR : A ▼
FIJAR : ACTION

Presione ▲▼ para seleccionar "AJUSTE DE ALTAVOCES," y Presione SET para visualizar la pantalla AJUSTE DE ALTAVOCES.

Presione ▲▼ para seleccionar, y presione SET para fijar.

#### ■ SALIDA PARA ALTAVOCES

Fije el número de altavoces conectados al DECK. MULTI-CANALES (Predeterminado en fábrica) Cuando están conectados 3 o más altavoces. 2 CANALES

Cuando están conectados 2 altavoces.

### **■ TAMAÑO DEL ALTAVOZ**

Se determinan las propiedades de frecuencia del altavoz y la existencia de los altavoces.

FRENTE (GRANDE fredeterminado en fébrica)/

FRENTE (GRANDE [predeterminado en fábrica]/ PEQUEÑO)

**CENTRO** (GRANDE [predeterminado en fábrica]/ PEQUEÑO/NINGUNO)

**ENVOLVENTE** (GRANDE [predeterminado en fábrica]/PEQUEÑO/NINGUNO)

SUBWOOFER (ENCENDIDO [predeterminado en fábrical/APAGADO)

#### ■ BALANCE DE SALIDA

Ajuste la salida de nivel de volumen para los altavoces.

CENTRO, ENVOLVENTE(DER)/(IZQ), SUBWOOFER

-6db ~ +6db (Odb: predeterminado en fábrica)

SEÑAL PRUEBA

El sonido de prueba es la salida en sentido de las manecillas del reloj.

#### **■ TIEMPO ATRAZADO**

Configurar el tiempo atrazado. Da a la salida de sonido un efecto retrasado que le ofrece la ilusión de encontrarse en la posición de escucha ideal.

**5** Presione ACTION tres o cuatro veces para salir.

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