# **Panasonic**®

# **DVD/CD PLAYER**

**Operating Instructions** 

Model No. DVD-F87/DVD-F86/DVD-F84

The illustration shows DVD-F87 for U.S.A. and Canada.



# Dear customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future







# Region number

The player plays DVD-Video marked with labels containing the region number or "ALL".

Region	Number
U.S.A. and Canada	1
Asia	3
Australia and N.Z.	4









Unless otherwise indicated, illustrations in these operating instructions are DVD-F87 for U.S.A. and Canada.



PC UP GN GCS

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# **CAUTION!**

THIS PRODUCT UTILIZES A LASER. **USE OF CONTROLS OR ADJUSTMENTS OR** PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

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

# WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT **EXPOSE THIS APPARATUS TO RAIN,** MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS. SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

# **CAUTION!**

- DO NOT INSTALL OR PLACE THIS UNIT IN A **BOOKCASE, BUILT-IN CABINET OR IN ANOTHER** CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT **OBSTRUCT THE VENTILATION VENTS.**
- DO NOT OBSTRUCT THE UNIT'S VENTILATION **OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.**
- DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
- DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.

For the U.S.A. and Canada

# CAUTION:

TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, **FULLY INSERT.** 

Before moving the unit, ensure the disc trays are empty. Failure to do so will risk severely damaging the discs and the unit.

# THE FOLLOWING APPLIES ONLY IN THE U.S.A.

# CAUTION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

# THE FOLLOWING APPLIES ONLY IN THE U.S.A. AND CANADA



# CAUTION

**RISK OF ELECTRIC SHOCK DO NOT OPEN** 



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE.

> REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying

# **IMPORTANT SAFETY INSTRUCTIONS**

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

# **Accessories**



(Only for U.S.A.) To order accessories contact 1-800-332-5368 or the website (http://www.pasc.panasonic.com). (For other areas) To order accessories, call the dealer from whom you have made your purchase.

Use numbers when asking for replacement parts.

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•	

Ш !	Remote control
□ 1	AC Power supply cord
	U.S.A. and Canada
	Australia and N.Z.

(N2QAJB000092)

(RJA0065-A) (K2CJ2DA00008) (RJA0019-2X)

Audio/video cable 1 Remote control batteries

Asia

(K2KA6CA00001)

□ 2

The included AC power supply cord is for use with this unit only. Do not use it with other equipment.

The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and keep for future reference.  MODEL NUMBER
User memo:
DATE OF PURCHASE DEALER NAME DEALER ADDRESS
TELEPHONE NUMBER

# Discs that can be played

		Indication		
Disc	1	in these	Pon	narks
DISC	Logo	operating	Ken	narks
		instructions		
DVD-RAM	DVD-RAM		Recorded using Version 1.1 of the Video Recording Format (a unified video recording standard).	Recorded with DVD video recorders, DVD video cameras, personal computers, etc.     Remove discs from their cartridges before use.
	R A M " R A M 4.7	JPEG	Recorded using the DCF (Design rule for Camera File system) standard.	<ul> <li>Recorded with Panasonic DVD-Video recorders</li> <li>To play JPEG files, select "Play as Data Disc" in Other Menu (→ page 11).</li> </ul>
		DVD-A	—	
DVD-Audio	AUDIO	DVD-V	Some DVD-Audio discs contain DVD-Video To play DVD-Video content, select "Play as	
DVD-Video	VIDEO NUIDEO			
DVD-R	R R 4.7	DVD-V	Panasonic DVD-R recorded and finalized* on a Panasonic DVD-Video recorded Video cameras are played as DVD-Video on this unit.	
Video CD	DIGITAL VIDEO	VCD	_	
SVCD	SUPER VIDEO		Conforming to IEC62107	
CD	DIGITAL AUDIO  DIGITAL AUDIO  TEXT	CD	This unit is compatible with HDCD.  HDCD-encoded CDs sound better because they are encoded with 20 bits, as compared with 16 bits for all other CDs.  • During HDCD play, "HDCD" lights on the unit's display.	
CD-R CD-RW	_	WMA MP3 JPEG CD VCD	This unit can play CD-R/RW (audio recording disc) recorded with the formats on the left. Close the sessions or finalize <sup>∞</sup> the disc after recording.     HighMAT discs     WMA, MP3 or JPEG files only.     To play without using the HighMAT function, select "Play as Data Disc" in Other Menu (→ page 11).	

<sup>\*</sup>A process that allows play on compatible equipment.

• It may not be possible to play the above discs in all cases due to the type of disc or condition of the recording.

# ■ Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, DVD+R, +RW, DVD-RW, SACD, Divx Video Discs and Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM, and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

# Audio format of DVDs

You can play discs with these symbols.



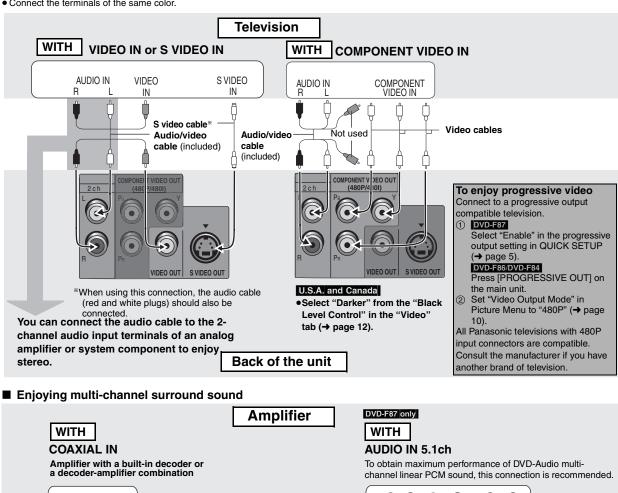


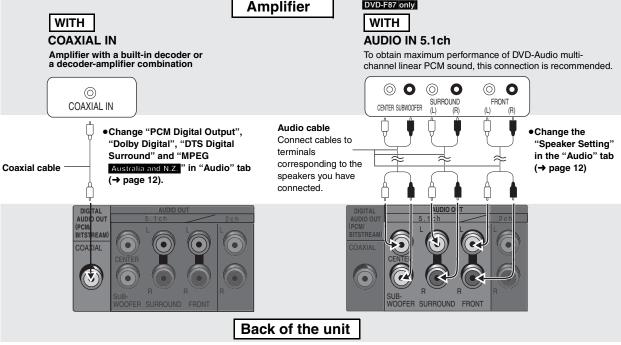


HighMAT™ and the HighMAT logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

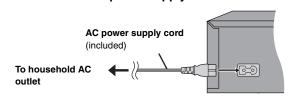
# STEP 1 Connection to a television

- Do not place the unit on amplifiers or equipment that may become hot. The heat can damage the unit.
- Do not connect through the video cassette recorder. Due to copy guard protection, the picture may not display properly.
- Turn off all equipment before connection and read the appropriate operating instructions.
- Connect the terminals of the same color.





# Connect the AC power supply cord last



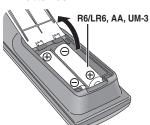
# Conserving power

This unit consumes a small amount of power, even when it is turned off (approx. 0.7 W).

To save power when the unit is not to be used for a long time, unplug it from the household AC outlet.

# STEP 2 The remote control

# ■ Batteries



- Insert so the poles (+ and −) match those in the remote control.
- Do not use rechargeable type batteries.

# Do not:

- mix old and new batteries.
- use different types at the same time.
- heat or expose to flame.
- take apart or short circuit.
- attempt to recharge alkaline or manganese batteries.
- use batteries if the covering has been peeled off.

Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

### ■ Use

Aim at the remote control sensor, avoiding obstacles, at a maximum range of 7 m (23 feet) directly in front of the unit

# **STEP 3 QUICK SETUP**



Turn on the television and select the appropriate video input on the television.

2
3
4
5
Power ON. Shows QUICK SETUP
Power ON. Shows QUICK SETUP
RETURN
Press to finish QUICK
QUICK
Press to finish QUICK
RETURN
Press to finish QUICK
RETURN
QUICK
Press to finish QUICK

make the settings.

To change these settings later

Select "QUICK SETUP" in "Others" tab (→ page 13).

screen.

# Main unit and disc caution

# ■ To prevent damage

- Do not:
- -load more than one disc per tray.
- -touch the drawer or the carousel while they are in motion
- -rotate the carousel by hand.
- -close the drawer by hand.

# ■ To clean discs

DVD-A DVD-V VCD CD

Wipe with a damp cloth and then wipe dry.

# RAM DVD-R

- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
- Never use cloths or cleaners for CDs etc.

# ■ Disc handling precautions

- Do not attach labels or stickers to discs (This may cause disc warping, rendering it unusable).
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not use the following discs:
  - Discs with exposed adhesive from removed stickers or labels (rented discs etc).
- Discs that are badly warped or cracked.
- Irregularly shaped discs, such as heart shapes.

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SETUP.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

"DTS" and "DTS 2.0 + Digital Out" are trademarks of Digital Theater Systems, Inc.

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, and 4,819,098, 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.

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

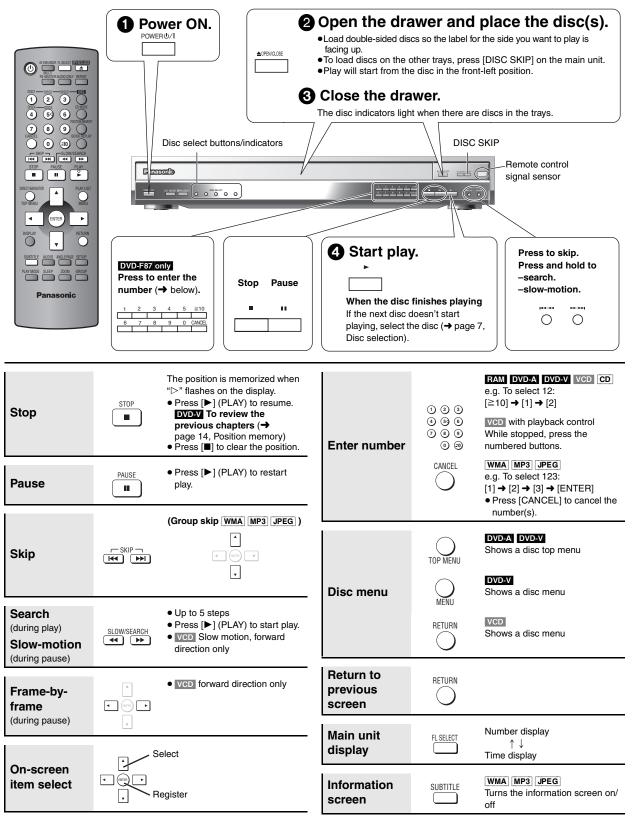
Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

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.



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HDCD system manufactured under license from Pacific Microsonics, Inc. This product is covered by one or more of the following: In the USA: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,864,311, 5,872,531, and in Australia: 669114, with other patents pending.



# Note

- "D.MIX" on the display indicates that a multi-channel soundtrack can be down-mixed to two channels.
- Discs continue to rotate while menus are displayed. Press [■] when you finish to preserve the unit's motor and your television screen.

If you are experiencing problems, refer to troubleshooting (→ page 16, 17)

# Asia, Australia and N.Z.

# ■ Standby/on switch (₺/l)

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

# Standby/on indicator (心)

When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

# **Changer functions**



Disc selection

Selecting the disc directly

Press Disc select buttons.

Selecting the disc from the Disc information menu

1 Press [DISC] to show the Disc information menu.



2 Press the numbered buttons ([DISC1] - [DISC5]).

To clear the screen

Press [DISC].

Skipping to the next disc tray

While the drawer is closed Press [DISC SKIP].

Each time you press the button, the carousel moves clockwise by one tray.



# Changing the other discs without interrupting play

- 1 Press [≜OPEN/CLOSE] to open the drawer.
- 2 Press [DISC SKIP].

The carousel moves one tray clockwise and each subsequent press moves it two trays in alternate directions.

# Exchanging the discs in the play position

1 Press [DISC EXCHANGE].

The drawer opens and the disc in the play position comes to the front-left position.

- 2 Change the disc in the front-left position.
- 3 Press [DISC EXCHANGE].



VCD CD WMA MP3

Press [CD MODE] to play all loaded discs (except for DVDs and JPEG files).

(CD Mode button on the main unit lights on.)

- HighMAT menus and Video CD playback control are disabled.
- You cannot change the mode during program or random play.
- •CD Mode turns off when you switch the unit to standby.

# Enjoying higher quality audio and video

AV ENHANCER

**AV Enhancer** 

By pressing just one button the disc type is automatically determined and the best audio and video settings are configured.

Press [AV ENHANCER] to select "On".



When AV Enhancer is on, you cannot change the settings indicated below

### Audio settings:

Multi Re-master (→ below), Dolby Pro Logic II (→ below), Advanced Surround (→ page 11), Dialogue Enhancer (→ page 11)

Video settings:

Picture Mode (→ page 10)



RAM DVD-V (Discs recorded with 48 kHz only)
DVD-A (Discs recorded with 44.1 kHz and 48 kHz only)
VCD CD

- During 2ch output of these discs, this feature gives you a more natural sound by adding the higher frequency signals not recorded on the disc.
- During multi-channel output of these discs, this feature reproduces the frequencies lost during recording to give you a sound closer to the original.

WMA MP3 (Disc recording is other than 8 kHz, 16 kHz, 32 kHz)
This feature reproduces the higher frequencies lost during recording to give you a sound closer to the original.

Press [MULTI RE-MASTER] to select "1" "2" or "3".



Setting	DVD-A DVD-V CD (LPCM/PPCM) Type of music	Other discs Effect level
1	High tempo (e.g., pop and rock)	Light
2	Various tempos (e.g., jazz)	Medium
3	Low tempo (e.g., classical)	Strong
Off	Off	Off

 The actual output sampling frequency depends on "PCM Digital Output" setting in "Audio" tab (→ page 12).



DVD-F87 only
Dolby Pro Logic II

Dolby Pro Logic II is an advanced decoder that derives 5 channel surround (Left and Right Front, Center, Left and Right Surround) from any stereo program material, whether or not it has been specifically Dolby Surround encoded.

# Press [DDPRO LOGICII].

Movie: Movie software, recorded in Dolby Surround.

Music: Stereo sources.

• This does not work when playing multi-channel audio.

ALIDIO ONLY	To enjoy even higher quality sound
AUDIO UNLT	10 chijoy even migher quanty count
	—AUDIO ONLY
	-AUDIO UNLI

You can enjoy higher quality audio by stopping the video output.

# **During play**

# Press [AUDIO ONLY].

- AUDIO ONLY is canceled if you press [AUDIO ONLY] again or switch the unit to standby.
- •There is output to the screen only when:
- —the disc is stopped.
- performing operations such as searching.
- on screen display is displayed.

The above indicated features may not work depending on the discs recording



# Playing data discs WMA MP3 JPEG CD (CD-text only)

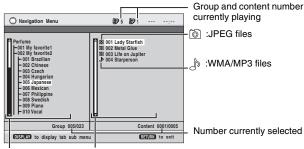
WMA MP3 JPEG

You can play JPEG files on DVD-RAM or play HighMAT discs without using the HighMAT function (→ page 11, "Play as Data Disc" in Other Menu).

■ Using playback menus (except JPEG files on DVD-RAM) While the menu is displayed

Press [▲ ▼] to select "All", "Audio", or "Picture" and press [ENTER].

- To display/exit the screen Press [TOP MENU].
- Using navigation menus
- 1 Press [MENU].
- 2 Press [▲ ▼ ◄ ►] to select the group or audio/picture content and press [ENTER].



Group

Audio/picture contents

 To enjoy listening to WMA/MP3 contents while showing a JPEG image on the screen

Select a JPEG file first, and then select tracks.

(The opposite order is not effective.)

 To exit the screen Press [MENU].

To use the contents screen to find a track CD (CD-text only)

While the menu is displayed

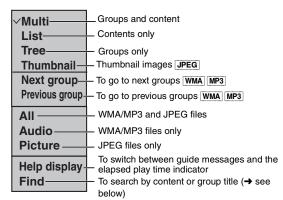
Press [▲ ▼1 to

Press [▲ ▼] to move through the tracks and press [ENTER].



 Press [ANGLE/PAGE] to skip 10 lines at a time Using the submenu WMA MP3 JPEG

# 1 While the menu is displayed, press [DISPLAY]



2 Press [▲ ▼] to select the submenu and press [ENTER].

# Searching by content or group title WMA MP3 UPEG

Place the cursor on the group title to search a group, or place the cursor on the content title to search contents.

1 Select "Find" (→ see above).



- 2 Press [▲ ▼] to select a character and press [ENTER].
  - Repeat to enter another characters.
  - •Lower case is also searched.
  - •Press [◄◄ ▶►] to skip between A, E, I, O and U.
  - Press [◄] to erase a character.
  - Erase the asterisk (\*) to search for the titles starting with that character.
- 3 Press [▶] to select "Find" and press [ENTER].
  The search result screen appears.
- 4 Press [▲ ▼] to select the content or group and press [ENTER].

# Tips for making WMA/MP3 and JPEG discs (For CD-R/CD-RW)

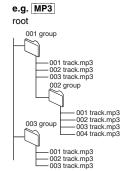
- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

# Naming folders and files

At the time of recording, prefix folder and file names with 3-digit numbers in the order you want to play them (this may not work at times).

Files must have the extension:

- ".WMA" or ".wma"
- ".MP3" or ".mp3"
- ".JPG", ".jpg", ".JPEG" or ".jpeg"



# WMA

• You cannot play WMA files that are copy protected.

# MP3

- This unit is not compatible with ID3 tags.
- Compatible sampling rate: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1, and 48 kHz

# JPEG

- To view JPEG files on this unit:
- Take them on a digital camera that meets the DCF Standard (Design rule for Camera File system) Version 1.0. Some digital cameras have functions that are not supported by the DCF Standard Version 1.0 like automatic picture rotation which may render a picture unviewable.
- Do not alter the files in any way or save them under a different name.
- This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play associated sound.



# Playing HighMAT discs WMA MP3 JPEG

# While the menu is displayed

# Select the item following the on-screen instructions.



Menu: Takes you to the next menu which shows play lists or another menu Play list: play starts

To change the menu background

Press [DISPLAY].

The background changes to the one recorded on the disc.

•To display/exit the screen Press [TOP MENU].

# ■ Selecting from the list

- 1 Press [MENU].
- 2 Press [◄] then [▲ ▼] to switch among Playlist, Group and Content lists.
- 3 Press [▶] then [▲ ▼] to select an item and press [ENTER].
  - Press [ANGLE/PAGE] to skip 10 lines at a time.
  - To exit the screen Press [MENU].



# DIRECT NAVIGATOR

# Playing the programs RAM

# 1 Press [DIRECT NAVIGATOR].

- Titles appear only if you have entered them.
- You cannot change program and disc titles.
- 2 Press [▲ ▼] or the numbered buttons to select the program.
  - Press [ANGLE/PAGE] to skip 5 lines at a time.
  - •To select a 2-digit number e.g. 23: [≥10] → [2] → [3]
  - Press [►] to show the contents of the program.

	_
PLAY LIST	

# Playing a play list RAM

(Only when the disc contains a play list)

- 1 Press [PLAY LIST].
- 2 Press [▲ ▼] or the numbered buttons to select the play list.
  - Press [ANGLE/PAGE] to skip 10 lines at a time
  - •To select a 2-digit number e.g. 23: [≥10] → [2] → [3]
- 3 Press [ENTER].



# Changing the play sequences

# PLAY MODE

# Program/Random play

# While stopped, press [PLAY MODE].

Each time you press the button:

- Program ———→ Random
- Coff (Normal play)←
- Disable HighMAT disc play to use random and program play. Select "Play as Data Disc" in Other Menu (→ page 11).

# ■ Program play (up to 32 items)

When CD Mode is on (→ page 7)

VCD CD WMA MP3

You can program all the items on all the discs.

When CD Mode is off (→ page 7)

DVD-A DVD-V VCD CD WMA MP3 JPEG

You can program all the items on a disc in the play position.

- When CD Mode is on (→ page 7)
   Press the numbered buttons to select a disc.
- 2 Press the numbered buttons to select the items (WMA MP3 JPEG then press [ENTER]).

Repeat this step to program other items.



3 Press [►] (PLAY).

Selecting all the items on the disc or group (Except DVD-A DVD-V) When CD Mode is off (→ page 7)

Press [ENTER] and [ $\blacktriangle$   $\blacktriangledown$ ] to select "ALL", then press [ENTER] again to register.

# Changing the program

Press [▲ ▼] to select an item.

- -To change an item, repeat step 1 and 2.
- -To clear an item, press [CANCEL] (or select "Clear" and press [ENTER]).
- Press [ANGLE/PAGE] to skip 8 lines at a time.

# Clearing the whole program

Select "Clear all" and press [ENTER]. The whole program is also cleared when the disc is moved out of the play position while the CD Mode is off or the unit is turned off.

# ■ Random play

When CD Mode is on (→ page 7)

VCD CD WMA MP3

You can play all the items on all the discs in random order.

When CD Mode is off (→ page 7)

VCD CD

You can play all the items on a disc in the play position in random order.

DVD-A DVD-V WMA MP3 JPEG

You can play selected item(s) on a disc in the play position in random order.

- 1 (DVD-A DVD-V WMA MP3 JPEG)
  Press the numbered buttons to select a group (WMA MP3 JPEG then press [ENTER]) or a title.
- 2 Press [►] (PLAY).

# Random Playback Choose a title Title Title TYD - E to select PLAY to start

e.q. DVD-V

# To exit the program or random mode

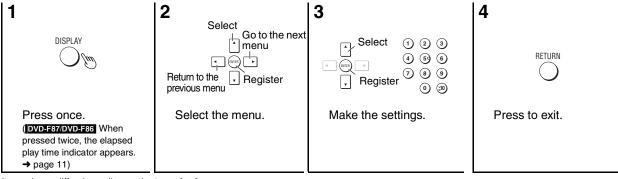
JPEG: Works with all JPEG content.)

Press [PLAY MODE] several times while stopped.



Press [REPEAT] several times to select an item to be repeated.





Items shown differ depending on the type of software.

Main menus				
Program Group	To start from a specific item	Still Picture	To switch still picture	
Title		Thumbnail	To show thumbnail images	
Chapter Track		Subtitle	(→ page 14)	
Playlist		Marker(VR)	To recall a marker recorded on DVD-Video recorders	
Content		Angle	(→ page 14)	
Time	To skip incrementally or decrementally (Time Slip for play only)  1. Press [ENTER] twice to show Time Slip indicator.	Rotate Picture		
	Press [▲ ▼] to enter the time and press [ENTER].     •Press and hold [▲ ▼] to alter faster.  To start from a specific time (Time Search)  To change remaining/elapsed time display	Slideshow	To turn on/off slideshow To change the slideshow timing (0–30 sec)	
Audio	(→ page 14)			
	To display the current bitrate or sampling frequency			

Other	settings		
	RAM DVD-V	■ Pictur	e Menu
Play Speed	To change play speed -from ×0.6 to ×1.4 (in 0.1 units)		Normal Cinema1: Mellows images scenes. Cinema2: Sharpens images scenes. Animation
AV Enhancer	(→ page 7)	Picture Mode	Dynamic User (Press [ENTER] to sele
	e elapsed play time can be displayed with all JPEG content.)		Picture Adjustment Contrast Brightness Gamma (Adjusts the brightness)
Repeat	(→ page 9)		Depth Enhancer  ● Reduce the rough noise
Except JPEG			greater feeling of depth.
RAM (still picture part) A-B Repeat	Press [ENTER] at the starting and ending points. Press [ENTER] again to cancel.	Video Output Mode	480I (Interlace) ←→ 480P
	To mark up to 5 positions to play again		If you have chosen "480P"

[ENTER] (at the desired point)

[◀▶] → [CANCEL]

[ENTER] (The unit is now ready to accept markers.)

• This feature doesn't work during program and random

To mark another position:  $[\blacktriangleleft \blacktriangleright] \rightarrow [\texttt{ENTER}]$ To recall a marker:  $[\blacktriangleleft \blacktriangleright] \rightarrow [\texttt{ENTER}]$ 

To mark a position:

To erase a marker:

play.

Picture Mode	Cinema1: Mellows images and enhances detail in dark scenes.  Cinema2: Sharpens images and enhances detail in dark scenes.  Animation  Dynamic  User (Press [ENTER] to select "Picture Adjustment") (→ below)
	Picture Adjustment Contrast Brightness Sharpness Color Gamma (Adjusts the brightness of dark parts.) Depth Enhancer  • Reduce the rough noise in the background to give a greater feeling of depth.
Video Output Mode	<b>480I</b> (Interlace) ←→ <b>480P</b> (Progressive)
Transfer Mode	If you have chosen "480P" (→ above), select the method of conversion for progressive output to suit the type of material.  Auto 1 (normal): For viewing film material  Auto 2: For viewing film material (the same as Auto 1, but able to convert 30-frame-per-second progressive video)  Video: For video material

Marker

# ■ Audio Menu

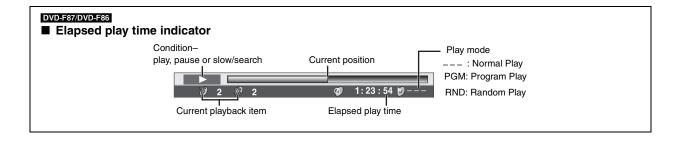
Dolby Pro Logic II	(→ page 7)
Advanced Surround	RAM DVD-V VCD (2 or more channels) SP (Speaker) 1 Natural SP 2 Enhanced HP (Headphone) 1 Natural HP 2 Enhanced Off  • When using discs recorded with surround sound, sound seems to come from speakers on either side of you.  • When using headphones from the connected equipment, select "HP 1" or "HP 2"  • Optimum seating position is 3 to 4 times the distance between the front left and right speakers or the width of the television if using the televisions speakers.  • Do not use in combination with surround effects on other equipment.
Dialogue Enhancer	To make the dialogue in movies easier to hear  DVD-V (Dolby Digital, DTS, MPEG, 3-channel or over, with the dialogue recorded in the center channel)  On ←→ Off
Multi Re- master	(→ page 7)
Attenuator	Switch on if sound is distorted. (For 2 ch or 5.1 ch AUDIO OUT connections) $\mathbf{On} \longleftarrow \mathbf{Off}$

# ■ Display Menu

■ Display Menu			
Information	$\begin{array}{c} \text{On} \longleftrightarrow \text{Off} \\ \text{(JPEG : Off, I} \end{array}$	Date, Details)	
Subtitle Position	0 to -60 (in 2	2 units)	
Subtitle Brightness	Auto, 0 to -7	,	
4:3 Aspect	screens on a Normal: Late Auto: Expa scree of th Shrink: Imag Zoom: Expa	w to show images made for 4:3 aspect 16:9 aspect television. rally stretches images. ands 4:3 letterbox images to fill more of the en. Other images appear in full in the center e screen. ges appear in the center of the screen. ands all images to fill the screen. on has a similar feature, use it instead for a	
Just Fit Zoo	m	(→ page 14)	
Manual Zoo	m	(→ page 14)	
Bitrate Display		RAM DVD-V VCD On  Off	
GUI See-through		$On \longleftrightarrow Off$	
GUI Brightness		-3 to +3	

# **■** Other Menu

Sleep	(→ page 14)
Play as DVD-Video or Play as DVD-Audio	While stopped  ◆ Select "Play as DVD-Video" to play DVD-Video contents on DVD-Audio.
Play as DVD-VR Play as HighMAT or Play as Data Disc	While stopped  Select "Play as Data Disc" to play JPEG files on DVD-RAM or to play HighMAT disc without using the HighMAT function.



# Changing the player settings



# ■ "Display" tab

Menu Language	■5
On-Screen Messages	● <u>On</u> ● Off
■ "Others" tab	
FL Dimmer Changes the brightness of the unit's display.	Bright    Dim     Auto:The display is dimmed during play, but brightens when you perform some operations.
Auto Power Off	On: The unit switches to standby mode after about 30 minutes in the stop mode, irrespective of the SLEEP setting.     Off
HighMAT	● <u>Enable</u>
QUICK SETUP	● <u>Yes</u> ● No
Re-initialize Setting This returns all values in the Setup menus to	Yes: The password screen is shown if "Ratings" (→ page 12) are set. Please enter the same password. After "INIT" on the display disappears, turn the unit off and on again.

the default settings.

\*\*1 Language options

U.S.A. and Canada : French and Spanish
Asia : Chinese

# Australia and N.Z.

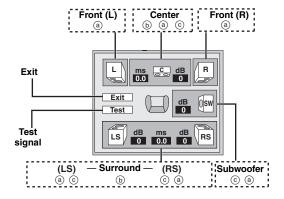
- French, German, Italian, Spanish, Portuguese, Swedish and Dutch
- $\ensuremath{^{*2}}$  The original language designed on the disc is selected.
- \*\*3 Input a code number referring to the table on page 15.
- #4 If the language selected for "Audio" is not available, subtitle appear in that language (If available on the disc).
- \*5 U.S.A. and Canada
- <sup>⊛6</sup> Asia
- \*7 Australia and N.Z.

# DVD-F87 only

# Changing the speaker setting to suit your speakers

No

When you connect with AUDIO OUT 5.1 ch (→ page 4) and select "Multi-channel" (→ page 12, "Speaker Setting" in "Audio" tab)



# Speaker presence and size (a)

# Icon examples:

Surround speaker (LS)



- Large: Select when the
- speaker supports low-frequency (under 100 Hz) reproduction.
- Small: Select when the speaker does not support low-frequency reproduction.

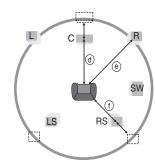
If the subwoofer is set to "No", the front speakers will automatically be set to "Large".

# Delay time (b)

# (Effective when playing multi-channel audio)

If either distance a or 1 is less than e, find the difference in the relevant table and change to the recommended setting.

# : Recommended placement



# d Center speaker

Difference	Setting
Approx. 34 cm (11/10 feet)	1.0 ms
Approx. 68 cm (21/5 feet)	2.0 ms
Approx. 102 cm (33/10 feet)	3.0 ms
Approx. 136 cm (42/5 feet)	4.0 ms
Approx. 170 cm (5½ feet)	5.0 ms

# (f) Surround speakers

Difference	Setting
Approx. 170 cm (5½ feet)	5.0 ms
Approx. 340 cm (11 feet)	10.0 ms
Approx. 510 cm (161/2 feet)	15.0 ms

# Channel balance (©)

# 1. Select "Test" and press [ENTER].

A test signal is output.



- While listening to the test signal, press [▲ ▼] to adjust the volume of the center and surround speakers so they are the same apparent volume as the front speakers (-6 to +6). (The front speakers cannot be adjusted here.)
- 3. Press [ENTER].
  - The test signal stops.
  - No signal is output for the subwoofer. To adjust its volume, play something, then return to this screen to adjust to suit your taste.

# To finish the speaker setting

Press [▲ ▼ ◀ ▶] to select "Exit" and press [ENTER].



RAM DVD-V VCD

This feature expands the letterbox picture to fit the screen.

Press [ZOOM] several times to select the preset aspect ratio or "Auto". (Just Fit Zoom)



# Fine adjustments (Manual Zoom)

Press [◀►].

- -from  $\times 1.00$  to  $\times 1.60$  (in 0.01 units)
- -from ×1.60 to ×2.00 (in 0.02 units)



# Quick replay

Except JPEG

(Only when the elapsed play time can be displayed)

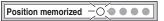
Press [QUICK REPLAY] to skip back a few seconds.



(Only when the elapsed play time can be displayed | JPEG |: Works with all JPEG content.)

This position is memorized even after turning off the unit or moving the disc out of the play position.

# Press [POSITION MEMORY].



- Up to 5 discs.
- When the sixth disc is memorized, the earliest position is replaced.
- You cannot recall the position in CD Mode (→ page 7).

When the unit is turned on or the disc comes to the play position, ">" flashes on the display.

Press [▶] (PLAY) to start play from that position.

# To review the previous chapters DVD-V

Press [▶] (PLAY) while the following message is displayed.



Do not press [>] (PLAY) if you want to cancel review.



DVD-A DVD-V (with multiple soundtracks) RAM VCD

Press [AUDIO] several times to select the soundtrack.

RAM VCD
You can use this button to select "L", "R" or "LR".

DVD-V (Karaoke discs)



Press [◀ ▶] to select "On" or "Off" of vocals.

Read the discs instructions for details.

# Signal type/data

LPCM/PPCM/DID Digital/DTS/MPEG: Signal type kHz (Sampling frequency)/bit/ch (Number of channels) Example: 3/2\_1\_b

1: Low frequency effect
(not displayed if there is no signal)
0: No surround

- 1: Mono surround
- 2: Stereo surround (left/right)
- 1: Center
- 2: Front left+Front right
- 3: Front left+Front right+Center



DVD-V (with multiple subtitles) VCD (SVCD only)

RAM (On/Off only)

Press [SUBTITLE] several times to select the subtitle

To clear/display the subtitles

language.

Press [◀ ▶] to select "On" or "Off".



Starting play from a selected group

DVD-A WMA MP3 JPEG
A folder on WMA/MP3 and JPEG discs is treated as a "Group".

- 1 Press [GROUP].
- 2 Press [▲ ▼] to select the item and press [ENTER].



Angle select and Still picture rotation/advance

Press [ANGLE/PAGE] several times to select the angle or rotate/advance the still picture.

DVD-V (with multiple angles)–Angle select

DVD-A -Still picture advance

JPEG -Still picture rotation



Press [SLEEP] to select the time to turn off (60 min, 90 min, 120 min) or "Auto".



# Auto:

- -Turns the unit off 5 minutes after play finishes.
- -Also works with DVDs that show a menu after play finishes.
- Does not work if you stop play or show a disc menu. It is activated again when you restart play.

To confirm the remaining time

Press [SLEEP] again.

# **Specifications**

Signal system: U.S.A. and Canada

PAL 625/50, PAL525/60, NTSC +5 to +35 °C (+41 to +95 °F) Operating temperature range: Operating humidity range: 5 to 90 % RH (no condensation) Discs played [8 cm (3 ") or 12 cm (5 ")]:

(1) DVD-RAM (DVD-VR compatible, JPEG formatted discs)

(2) DVD-Video (3) DVD-Audio

(4) DVD-R (DVD-Video compatible)

(5) CD-Audio (CD-DA) (6) Video CD

(7) SVCD (Conforming to IEC62107)

(8) CD-R/CD-RW

(CD-DA, Video-CD, SVCD, MP3, WMA, JPEG formatted discs)

(9) MP3/WMA\*1

· Compatible compression rate:

MP3: between 32 kbps and 320 kbps WMA: between 48 kbps and 320 kbps

(10) JPEG\*1

• Exif Ver 2.1 JPEG Baseline files

Picture resolution:

between 320×240 and 6144×4096 pixels (Sub sampling is 4:2:2 or 4:2:0)

S terminal (1 system)

(11) HighMAT Level 2 (Audio and Image)

Video output:

1 Vp-p (75 Ω) Output level: Output connector: Pin jack (1 system)

S-video output:

1 Vp-p (75 Ω) Y output level:

C output level: U.S.A. and Canada NTSC; 0.286 Vp-p (75 Ω) NTSC; 0.286 Vp-p (75 Ω) Others PAL; 0.300 Vp-p (75 Ω)

Output connector: Component video output:

(NTSC: 480P/480I) U.S.A. and Canada Others (NTSC: 480P/480I, PAL: 576I) Y output level: 1 Vp-p (75 Ω) P<sub>B</sub> output level: 0.7 Vp-p (75 Ω)

0.7 Vp-p (75 Ω) P<sub>R</sub> output level: Output connector: Pin jack (Y: green, PB: blue, PR: red) 1 system

Number of connectors:

Audio output:

NTSC

Output level: 2 Vrms (1 kHz, 0 dB) Output connector: Pin jack

Number of connectors:

DVD-F87 5.1-channel discrete output (5.1 channel): 1 system DVD-F86/DVD-F84 2 channel: 1 system

Audio performance:

(1) Frequency response: •DVD (linear audio): 4 Hz-22 kHz (48 kHz sampling) 4 Hz-44 kHz (96 kHz sampling)

•DVD-Audio: 4 Hz-88 kHz (192 kHz sampling) •CD Audio: 4 Hz-20 kHz

(2) S/N ratio: ●CD Audio:

(3) Dynamic range: •DVD (linear audio): 100 dB 98 dB

CD Audio:

(4) Total harmonic distortion: CD Audio: 0.0025 %

Digital audio output:

Coaxial digital output: Pin jack

Pickup:

662 nm/785 nm Wave length: Laser power:

U.S.A.

CLASS IIa/CLASS I CLASS 2/CLASS 3A Others

Power supply:

U.S.A. and Canada AC 120 V, 60 Hz AC 220-240 V, 50 Hz Australia and N.Z.

Power consumption:

AC 220-240 V, 50/60 Hz 10 W

115 dB

Power consumption in standby mode: approx. 0.7 W 430 (W)×412.9 (D)×68 (H) mm **Dimensions:**  $[16 \ ^{15}/_{16}" \ (W) \times 16 \ ^{1}/_{4}" \ (D) \times 2 \ ^{11}/_{16}" \ (H)]$ 

Mass: approx. 4.0 kg (8.9 lb.)

Specifications are subject to change without notice. Mass and dimensions are approximate.

# Maintenance

# Clean this unit with a soft, dry cloth.

- Never use alcohol, paint thinner or benzine to clean this unit.
- · Before using chemically treated cloth, read the instructions that came with the cloth carefully.

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

<sup>\*1</sup>The total combined maximum number of recognizable audio and picture contents and groups: 4000 audio and picture contents and 400 groups.

# **Troubleshooting guide**

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, see "Product information" on page 17 for assistance.

Power		Page
No power.	• Insert the AC power supply cord securely into the household AC outlet.	4
The unit is automatically switched to the standby mode.	<ul> <li>When "Auto Power Off" is set to "On", the unit automatically switches to standby after approximately 30 minutes in the stop mode.</li> <li>The Sleep timer functioned.</li> </ul>	13 14

# No operation

No response when any buttons pressed.	<ul> <li>This unit cannot play discs other than the ones listed in these operating instructions.</li> <li>The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC power supply cord, and then reconnect it.</li> <li>Condensation has formed: Wait 1 to 2 hours for it to evaporate.</li> </ul>	3 - -
No response when remote control buttons pressed.	<ul> <li>Check that the batteries are installed correctly.</li> <li>The batteries are depleted: Replace them with new ones.</li> <li>Point the remote control at the remote control sensor and operate.</li> </ul>	5 5 6
No picture or sound.	<ul> <li>Check the video or audio connection.</li> <li>Check the power or input setting of the connected equipment.</li> <li>Check that the DVD-RAM has something recorded on it.</li> </ul>	4 - -
You have forgotten your ratings password. Reset all the settings to Factory Preset.	<ul> <li>While stopped, press and hold [I◄◄/◄◄] and [II] on the unit and then also press and hold [▲] on the unit until "Initialized" disappears from the television. Turn the unit off and on again. All settings will return to the default values.</li> </ul>	-

# Specific operation impossible or incorrect

It takes time before play starts.  MP3	<ul> <li>Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed, however this is normal.</li> </ul>	-
Programmed items are not played. DVD-V	Some items cannot be played even if you have programmed them.	-
A menu screen appears during skip or search. VCD	This is normal for Video CDs.	-
The on-screen menu shows "2" as a soundtrack option when [AUDIO] is pressed, but the audio does not change. DVD-A	Even if a second soundtrack isn't recorded, two numbers will normally be shown.	-
Play restarts from the beginning of the track when soundtrack is changed. DVD-A	● This is normal on DVD-Audio.	-

# Subtitle

Subtitle position is wrong.	Adjust the position. ("Subtitle Position" in Display Menu)	11
No subtitles.	Display the subtitles.	14
The subtitles overlap closed captions recorded on discs.	Clear the subtitles.	14

# A-B repeat

Point B is automatically set.	The end of an item becomes point B when it is reached.	-
A-B repeat is automatically	A-B repeat is canceled when you press [QUICK REPLAY].	_
canceled.		

# Picture incorrect

Picture incorrect		
Picture distorted.	<ul> <li>Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.</li> </ul>	4
Picture size doesn't fit the screen.	<ul> <li>Change "TV Aspect" in "Video" tab.</li> <li>Use the television to change the aspect. If your television does not have that function, change "4:3 Aspect" in Display Menu.</li> <li>Change the Zoom setting.</li> </ul>	12 11 14
The television may display incorrectly or colors appear faded.	The unit and television are using different video systems.  U.S.A., Canada and Asia Use a multi-system or NTSC television.  Australia and N.Z. Use a multi-system or PAL television.  The system used on the disc doesn't match your television.  U.S.A. and Canada  PAL discs cannot be played.  This unit converts DVD-Audio recorded in PAL to NTSC for play, however, play may not function properly.  Asia, Australia and N.Z.  PAL discs cannot be correctly viewed on an NTSC television.  This unit can convert NTSC signals to PAL 60 for viewing on a PAL television ("NTSC Disc Output" in "Video" tab).  This may happen when turning AUDIO ONLY on or off, but this is normal.	- - 12 7
Menu not displayed correctly.	<ul> <li>Restore the zoom ratio to ×1.00.</li> <li>Set "Subtitle Position" in Display Menu to "0".</li> <li>Set "4:3 Aspect" in Display Menu to "Normal".</li> </ul>	14 11 11
Auto zoom function does not work well.	<ul> <li>Turn off TV's zoom function.</li> <li>Use the other preset aspect ratios or manual adjustment.</li> <li>Zoom function may not work well, especially in dark scenes and may not work depending on the</li> </ul>	- 14 -

type of disc.

Progressive video		Page
There is ghosting when progressive output is on.	Change "Video Output Mode" in Picture Menu to "480I". This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlace output.	10
Pictures not in progressive output.	If the unit is connected to the television through VIDEO OUT or S VIDEO OUT, output will be interlace.  INDIFER  Select "Enable" in "Progressive Out (Component)" in "Video" tab. Then, select "480P" in "Video Output Mode" in Picture Menu.  INDIFERSIDVD-F84  Press [PROGRESSIVE OUT] on the main unit. Then, select "480P" in "Video Output Mode" in Picture Menu.	- 12, 10 10
Closed captions not displayed.	When progressive output is on, closed captions will not be displayed.	-

# Sound incorrect

Sound distorted.  Select "Off" in "Advanced Surround" in Audio Menu. Select "On" in "Attenuator" in Audio Menu if it causes distortion with 2 ch or 5.1ch AUDIO OUT co Noise may occur when playing WMA files. If the "D.MIX" indicator on the display goes out while playing a multi-channel DVD-Audio disc, only be output from speakers specified by the disc. Read the disc's instructions for details.		11 11 - -		
Piercing noise comes from the speakers.	• If you have connected a digital amplifier which does not include decoder, be sure to select "PCM" in "Dolby Digital", "DTS Digital Surround" or "MPEG*" in "Audio" tab.			
Effects do not work.	None of the audio effects work when the unit is outputting bitstream signals from the DIGITAL AUDIO OUT terminal. In this case, connect with the AUDIO OUT terminal. Some audio effects do not work or have less effect with some discs. Multi Re-master, Advanced surround and Dolby Pro Logic II do not work if you have changed the play speed.	4 _ _		

# Recording

- Advanced Surround: Off - PCM Digital Output: Up to 48 kHz - Dolby Digital/DTS Digital Surround/MPEG*: PCM		Cannot record to digital recording equipment. (Incorrect sound recorded.)	- PCM Digital Output: Up to 48 kHz	12
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# **Unit displays**

"NOPLAY"	You inserted a disc the unit cannot play; insert one it can.     You inserted a blank disc.	3 -
"U11"	● Disc is dirty: Wipe it clean.	5
"U15"	You inserted a DVD-R that has not been finalized.	3
"H□□" □□ stands for a number.	<ul> <li>Trouble may have occurred. The number following "H" depends on the status of the unit. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC power supply cord, and then reconnect it.</li> <li>If the service numbers fail to clear, note the service number and contact a qualified service person.</li> </ul>	-
"NODISC"	You haven't inserted a disc: Insert one.     You haven't inserted the disc correctly: Insert it correctly.	_ 6

# **Television displays**

" <b>O</b> "	The operation is prohibited by the unit or disc.			
"Cannot display group xx, content xx"	You are trying to display incompatible contents.			
DVD-F97  "The progressive out is set to "Disable""  • Select "Enable" in "Progressive Out (Component)" in "Video" tab.		12		
"This disc may not be played in your region"	<ul> <li>You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit on the rear panel.</li> </ul>	Cover		
No on-screen display.	● Select "On" in "On-Screen Messages" in "Display" tab.	13		

\*MPEG: Australia and N.Z.

# **Product Service**

- Damage requiring service—The unit should be serviced by qualified service personnel if:
  - (a) The AC power supply cord or AC adaptor has been damaged; or
  - (b) Objects or liquids have gotten into the unit; or
  - (c) The unit has been exposed to rain; or
  - (d) The unit does not operate normally or exhibits a marked change in performance; or
  - (e) The unit has been dropped or the cabinet damaged.
- Servicing—Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- Replacement parts—When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- Safety check—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

# **Product information**

For product information or assistance with product operation:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or the website http://www.panasonic.com/contactinfo, or the website (http://www.panasonic.com/support).

In Canada, contact the Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, or visit the website (www.panasonic.ca), or an authorized Servicentre closest to you.

In other areas, consult your dealer.

# Limited Warranty (ONLY FOR U.S.A.)

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

of Puerto Rico, Inc., Ave. 65 de Infantería, Km. 9.5

San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic Sales Company, Division of Matsushita Electric

# Panasonic DVD Player 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 ("Limited 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 or Part Name	Parts	Labor	
DVD Player	One (1) Year	Ninety (90) Days	
Rechargeable Batteries (in exchange for defective item)	Ten (10) Days	Not Applicable	

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

### Mail-In Service

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Services Company

Customer Servicenter

Suite B

4900 George McVay Drive

McAllen, TX 78503

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

IF REPAIR IS NEEDED DURING THE LIMITED WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

### Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited 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 hotel, office, restaurant, or other business), rental use of the product, or 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, travel to and from the servicer, loss of or damage to media or images, data or other 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 Limited Warranty lasts, so the exclusions may not apply to you.

This Limited 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 Limited 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, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

# **Customer Services Directory**

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

http://www.panasonic.com/support

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-800-211-PANA (7262),

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

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

# Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

http://www.pasc.panasonic.com

or, send your request by E-mail to:

# npcparts@panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 8 pm, EST.)

Panasonic Services Company

20421 84th Avenue South, Kent, WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277

# 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

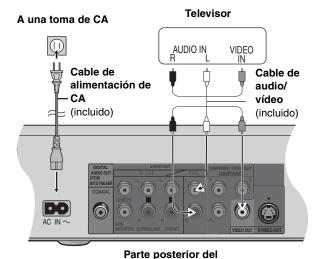
Phone (787)750-4300, Fax (787)768-2910

F1003

# Referencia rápida en español

# Conexiones

# Conexión a un televisor



• Conecte el cable de alimentación de CA el último.

aparato

# PREPARACIÓN RÁPIDA

Encienda el televisor y seleccione la entrada de vídeo apropiada en el mismo.

1	[ပုံ]	Encienda.
2	[SETUP]	Muestra la pantalla QUICK SETUP.
3	[▲ ▼ ◀ ▶] [ENTER] [RETURN]	Pulse [▲ ▼] para seleccionar "Español" y pulse [ENTER]. Siga el mensaje y haga los ajustes.
4	[ENTER]	Pulse para terminar PREPARACIÓN RÁPIDA.
5	[SETUP]	Pulse para salir.

# Reproducción básica

1	[Φ]	Encienda.
2	[▲]	Abre el cajón.
3		Introduzca el disco.
4	[▶] (PLAY)	Inicie la reproducción.



	SUBTITLE ALDOO ANGLEWAS STUP
Parada [■]	La posición se memoriza cuando "▷" parpadea en el visualizador.  • Pulse [▶] (PLAY) para proseguir.  • Pulse [■] para borrar la posición.
Pausa [▮▮]	<ul> <li>Pulse [►] (PLAY) para reiniciar la reproducción.</li> </ul>
Salto [I◀◀ ▶▶]	(Salto de grupo WMA MP3 JPEG [▲ ▼])
Búsqueda (durante la reproducción) [◀◀ ▶▶]	<ul> <li>Hasta 5 pasos</li> <li>Pulse [▶] (PLAY) para iniciar la reproducción.</li> <li>VCD Cámara lenta, sentido de avance solamente</li> </ul>
Cámara lenta (durante la pausa) [◀◀ ▶▶]	
Cuadro a cuadro (durante la pausa) [◀▶]	VCD Sentido de avance solamente
Selección de elemento en pantalla [▲ ▼ ◀ ▶] [ENTER]	
Introduzca número Botones numerados	RAM DVD-A DVD-V VCD CD Ej.: Para seleccionar 12: [≥10] → [1] → [2]

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W	en		n	0	a	ıc	~	п

DVD-A DVD-V Muestra un menú inicial de disco
DVD-V Muestra un menú de disco

VCD con control de reproducción Durante la parada, pulse los botones numerados.

WMA MP3 JPEG Ej.: Para seleccionar 123:  $[1] \rightarrow [2] \rightarrow [3] \rightarrow [\mathsf{ENTER}]$ Pulse [CANCEL] para cancelar

el(los) número(s).

VCD Muestra un menú de disco [RETURN]

Vuelta a la pantalla anterior [RETURN]

# Aparato principal solamente

Salto de discos [DISC SKIP]

Selección de disco Pulse para seleccionar directamente los discos. O O O O O





(Inside of product)

# For U.S.A.



As an ENERGY STAR® Partner. Panasonic has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

# Except for U.S.A. and Canada

The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.



The laser product label has not been attached to products for the U.S.A. and Canada

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

### Main feature index Changes the unit's display (→page 6) Recalls recommended audio/ video setting (→page 7) AV ENI ANCER F O Audio only (→page 7) Reproduces high quality audio Repeat play (→page 9) (**→**page 7) Shows a disc type screen (→page 7) 1 2) 3 Selects discs to play Sequential play (→page 7) (→page 7) 4 59 Memorizes the position during play 8) 9 (→page 14) 0) <u>≥</u>10 Skips back a few seconds (→page 14) 144 **>>** STOP PAUS Ш DIRECT NAVIGAT PLAY LIST Shows a disc top menu (→page 6) Shows a disc menu (→page 6, 8) Shows a program list (→page 9) Shows a play list (→page 9) TOP MENI ENTER ◂ ▶ Shows On-Screen Menus RETURN (→page 10) Changes angles/rotates pictures (→page Changes subtitles (→page 14) 14) Changes soundtracks (→page 14) SLEEP GROUP Selects groups to play (→page 14) Program/random play (→page 9) Changes the **zoom ratio** (→page 14) Sleep timer (→page 14)

# For U.S.A.

**Panasonic Consumer Electronics** Company, Division of Matsushita **Electric Corporation of America** One Panasonic Way Secaucus,

New Jersey 07094 http://www.panasonic.com

Panasonic Sales Company, **Division of Matsushita Electric** of Puerto Rico, Inc. ("PSC")

Ave. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985 © 2003 Matsushita Electric Industrial Co., Ltd. Printed in Singapore

# For others

Matsushita Electric Industrial Co., Ltd. Web Site: http://www.panasonic.co.jp/global/



For Canada

L4W 2T3

5770 Ambler Drive

Mississauga, Ontario

www.panasonic.ca

Panasonic Canada Inc.

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