

Panasonic®

Operating Instructions Portable DVD/CD Player

Model No. DVD-LS92



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 read the instructions completely.
Please keep this manual for future reference.

If you have any questions contact
1-800-561-5505



Region number

The player plays DVD-Video marked with labels containing the region number "1" or "ALL".

Example:



The warranty can be found on page 19.

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 power-supply 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.



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.**
- **USE ONLY THE RECOMMENDED ACCESSORIES.**
- **DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

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.

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.

Product Identification Marking is located on the bottom of units.

This Class B digital apparatus complies with Canadian ICES-003.

The following mark and symbols are located on bottom of the unit.



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 the appliance.

The unit should be installed near an accessible AC power outlet, with the power cord connected directly to it. To completely disconnect power from the unit, unplug the power cord from the AC power outlet.



Listening caution



Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play. If you experience a ringing in your ears, reduce volume or discontinue use.

Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.

You should use extreme caution or temporarily discontinue use in potentially hazardous situations.

Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing.

Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Leave it there.

Do not rest the unit on your lap for a long time while using it. The unit can become hot and cause burns.

WARNING

DRIVER MUST NOT OPERATE OR VIEW THIS UNIT WHILE OPERATING THE VEHICLE.

Doing so will distract the driver and could cause a collision resulting in serious injury or property damage.

To prevent damage

Avoid the following:

- Spraying flammable insecticides near the unit.
- Pressing the LCD.
- Touching the lens and other parts of the laser pickup.

Do not use the unit in the following places:

- Sandy places such as beaches.
- On top of cushions, sofas, or hot equipment such as amplifiers.

Do not leave in an unventilated automobile or exposed to direct sunlight and high temperatures.

Batteries

1 Battery pack (Lithium ion battery pack)

- Use the specified unit to recharge the battery pack.
- Do not use the battery pack with equipment other than the specified unit.
- Do not use the player outside if it is snowing or raining. (The battery pack is not waterproof.)
- Do not get dirt, sand, liquids, or other foreign matter on the terminals.
- Do not touch the plug terminals (+ and -) with metal objects.
- Do not disassemble, remodel, heat or throw into fire.
- Do not heat or expose to flame.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.

If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.

If any electrolyte should come into contact with your eyes, never rub the eyes.

Rinse eyes thoroughly with water, and then consult a doctor.

2 Disposing of the batteries

Check and follow your local regulations before disposal.

A lithium ion battery that is recyclable powers the product you have purchased.

At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream.

Please call 1-800-8-BATTERY for information on how to recycle this battery.



AC adaptor

This AC adaptor operates on AC between 100 V and 240 V. But

- In the U.S.A. and Canada, the AC adaptor must be connected to a 120 V AC power supply only.
- When connecting to an AC supply outside of the U.S.A. or Canada, use a plug adaptor to suit the AC outlet configuration.

CAUTION-LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM. FDA 21 CFR / Class II

CAUTION-CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

IEC60825-1 +A2/ Class 1M

ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE ET LORSQUE LA SÉCURITÉ EST NEUTRALISÉE. NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE.

(Bottom of product)

Warning

Risk of fire, explosion and burns. Do not disassemble, heat above 60°C (140°F) or incinerate.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

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Accessories



Please check and identify the supplied accessories.

Use numbers when asking for replacement parts. (Product numbers correct as of December 2010. These may be subject to change.)

To order accessories, call the dealer from whom you have made your purchase.

☐ **1 Audio/video cable** (K2KYYYY00057)

☐ **1 AC adaptor** (RFEA218C)

- For use with this unit only. Do not use it with other equipment.

Also, do not use cords for other equipment with this unit.

☐ **1 Car DC Adaptor** (RFEC207P-AB)

☐ **1 Rechargeable battery pack**

Included	Optional
DY-DB20	DY-DB30

- Depending on the battery pack, playback time may differ. [→ 6, Approximate recharging and play times (Hours)]

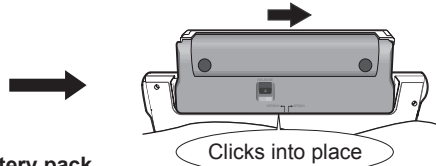
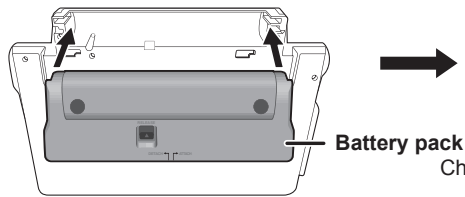
The enclosed Canadian French label sheet corresponds to the English display on the unit.

Preparations

① Attaching the battery

(When the unit is off)

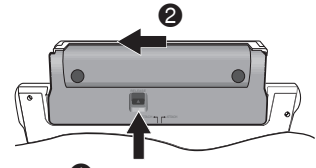
Bottom side of this unit



Check to make sure it is securely fastened.

■ Detaching

- Turn the unit off before detaching the battery pack.



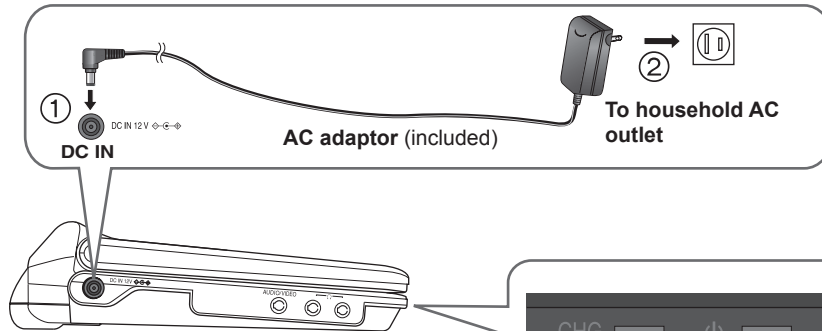
① Press and hold

When not using for long periods of time

- Remove the battery pack (→ above).
(Even when the unit is turned off, there is a small amount of voltage running through the unit, and this may result in a malfunction.)
- Recharge the battery for re-use.

② Recharging the battery

The battery is not charged at the time of purchase. Charge before initial use.

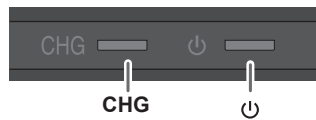


The unit is in the standby condition (the [⏻] indicator lights) when the AC adaptor is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.

To conserve power

This unit consumes 0.4 W of power even when turned off. When the unit is not going to be used for a long time, disconnect the AC adaptor from the household AC outlet.

- You can also use this unit without charging while connecting the AC adaptor.
- You can also use this unit without charging while connecting Car DC Adaptor. (→ 15, Connecting the included Car DC Adaptor)



Recharging time:

→ 6, Approximate recharging and play times (Hours)
When finished, disconnect the AC adaptor.

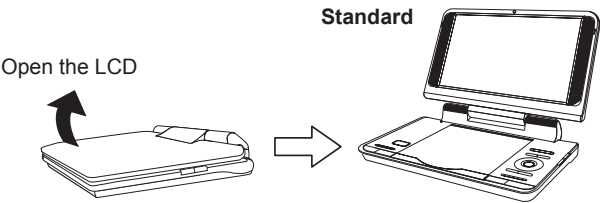
Started Finished

[⏻] goes out → lights*
[CHG] lights → goes out
* Only when recharged with the unit off.

[⏻] indicator

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.

③ Adjusting the LCD angle



- When moving the unit: Close the LCD. Don't hold by the LCD.
- Functions operated by buttons on the unit will not work when the LCD is closed.

Approximate recharging and play times (Hours)

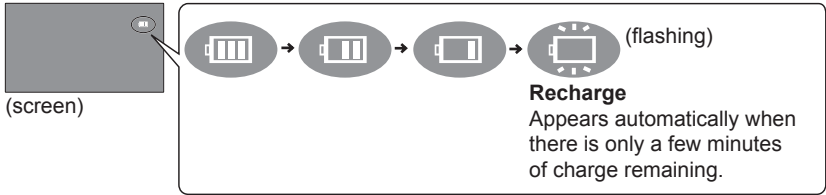
Battery pack	Recharging (When the unit is off) [at 20 °C (68 °F)]	Play (at room temperature using headphones)			
		LCD brightness level			LCD Off
		-5	0	5	
DY-DB20	7	11	9.5	8	11
DY-DB30 (option)	8	14	12	10	14

- The times indicated on the left may differ depending on use.
- To change the LCD brightness (→ 10).

Checking the remaining battery charge

When the unit is on (→ 8) and powered by the battery pack

Press [DISPLAY] to check on the LCD (Displays for a few seconds).



Discs that can be played

Commercial discs

Disc Logo	Indicated in these instructions by	Remarks
	DVD-V	High quality movie and music discs
	VCD	Music discs with video Including SVCD (Conforming to IEC62107)
	CD	Music discs

■ **Discs that cannot be played**
Blu-ray, HD DVD, discs recorded with AVCHD format, DVD-Audio, Version 1.0 of DVD-RW, DVD-RAM, DVD-VR, CDV, CD-G, SACD, Photo CD, PAL discs and “Chaoji VCD” available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

Recorded disc (O: Available —: Not available)

Disc Logo	Recorded on a DVD recorder, etc.	Recorded on a personal computer, etc.			Necessity of finalize*3
	DVD-V *2	MP3	JPEG	DivX	
	O	O	O	O	Necessary
	O	—	—	—	Necessary
+R/+RW —	(O)	—	—	—	Necessary
+R DL —	(O)	—	—	—	Necessary
CD-R/RW *1 —	—	O	O	O	Necessary*4

● It may not be possible to play the above discs in all cases due to the type of discs, the condition of the recording, the recording method and how the files were created (→ 12, Tips for making data discs).

*1 This unit can play CD-R/RW recorded with CD-DA or Video CD format.

*2 Discs recorded on DVD recorders or DVD video cameras, etc. using DVD-Video Format.

For +R/+RW and +R DL: Discs recorded using a format different from DVD-Video Format, therefore some functions cannot be used.

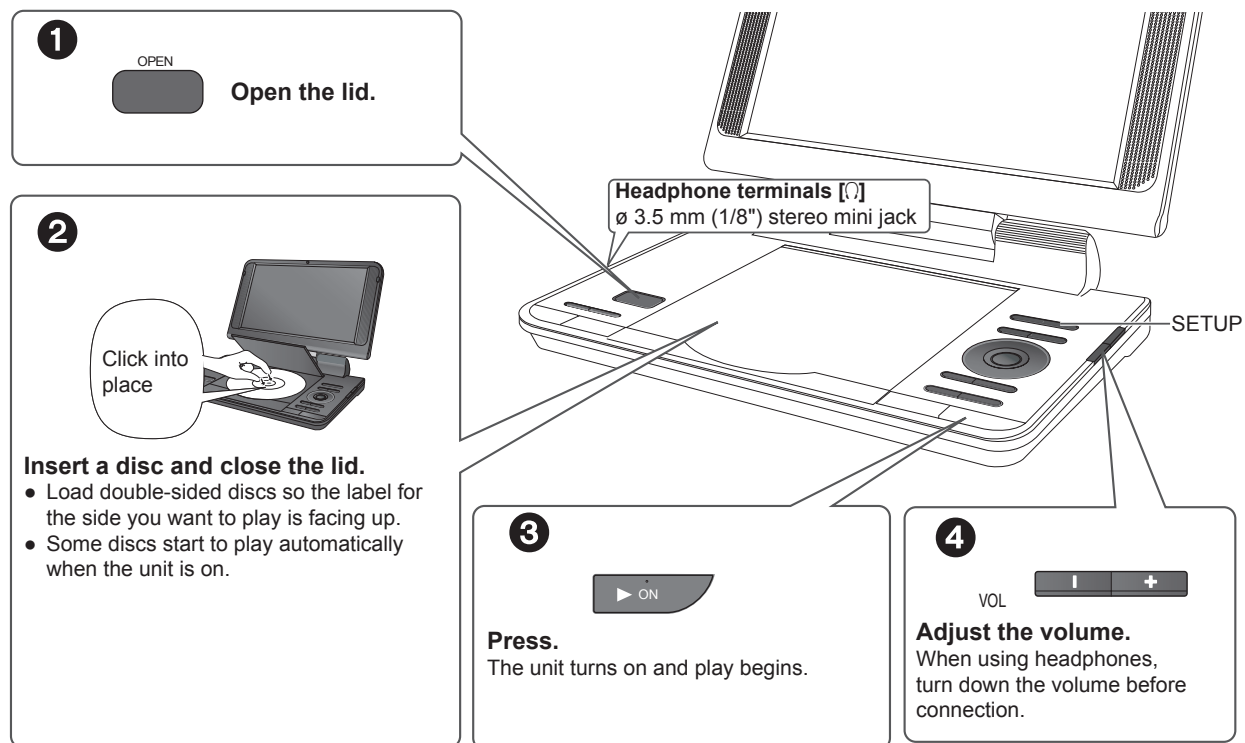
*3 A process that allows play on compatible equipment. To play a disc that is displayed as “Necessary” on this unit, the disc must first be finalized on the device it was recorded on.

*4 Closing the session will also work.

Note about using a DualDisc

- The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so play may not be possible.
- Do not use a DualDisc in this unit as it may not be possible to insert it correctly and it may get scratched or scraped.

Playing discs



- **To change the language on the display** → 14, “Language” tab
- While stopped, the unit automatically turns off once about 15 minutes (about 5 minutes when using the battery pack) have elapsed.
- Total title number may not be displayed properly on +R/+RW.
- If you are experiencing problems, refer to troubleshooting guide (→ 17).
- During playback of DTS source, there will be no sound from the speakers. Select a different audio source (e.g. Dolby Digital).

Note

DISCS CONTINUE TO ROTATE WHILE MENUS ARE DISPLAYED. Press [■ -OFF] when you finish to preserve the unit's motor.

Operations

	Turn unit on/play	When the unit is off: Press, the power comes on and play begins. When the unit is on: Press and play begins.
	Pause	Press [▶ ON] to restart play.
	Stop	The position is memorized when you press it for the first time. • Press [▶ ON] to resume. (Resume play) Opening the disc lid or pressing [■ -OFF] cancels the memorized position.
	Turn unit off	Press and hold until the unit is off.
	Skip	Press [◀◀, ▶▶] .
	Search	Press and hold [◀◀, ▶▶] . Press [▶ ON] to return to normal play.
	Slow play	DVD-V Press and hold [◀◀, ▶▶] while paused. VCD DivX Press and hold [▶▶] while paused. Press [▶ ON] to return to normal play.
	Top menu	DVD-V Shows a disc top menu.
	Menu	DVD-V Shows a disc menu. VCD Switch PBC on/off.
	Navigation Menu	MP3 JPEG DivX (→ 11)
	Return	Returns to the previous screen. VCD (with playback control) Returns to the menu.
	Menu operation	Press [▲ ▼ ◀ ▶] and [OK] to set.
	Number Select	VCD (with PBC off) ① Press [DISPLAY] to display On-Screen Menus. ② Press [▲ ▼] to select item. ③ Press [◀ ▶] to enter number. ④ Press [OK] .
	Frame-by-frame	DVD-V While paused, press [▶] or [II] to step forward, press [◀] to step backward. VCD DivX While paused, press [II] to step forward only.

Playback

Useful functions

Selecting how to show 4:3 aspect pictures on the LCD

- LCD-SIZE**
- Press to change.**
- Monitor Normal:** Effective in 4:3 video only
 - Monitor Full:** Stretched horizontally
 - Monitor Off:** No picture
 - If you are not using the LCD on this unit, select "Monitor Off" to conserve power. (The [] indicator flashes.)
 - The LCD turns off automatically if you close it.

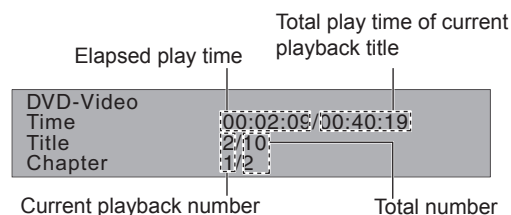
Selecting the picture quality on the LCD

- BRIGHT-LCD**
- Press to change.**
- Press [▲ ▼] to select the item, and [◀ ▶] to change the setting.**
- Brightness:** -5 to 5
 - Contrast:** -5 to 5
 - Tint:** -5 to 5
 - Color:** -5 to 5
 - To exit the screen:** Press [RETURN].

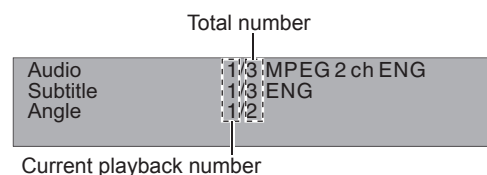
Displaying current playback condition (Quick OSD)

e.g. **DVD-V**

DISPLAY Press three times.



DISPLAY Press four times.



- To exit the screen:** Press [RETURN].

Repeat play

- REPEAT**
- During play, press several times to select the content to be repeated.**
- VCD** (with PBC off).

About DivX® VOD content

ABOUT DIVX VIDEO:

DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND:

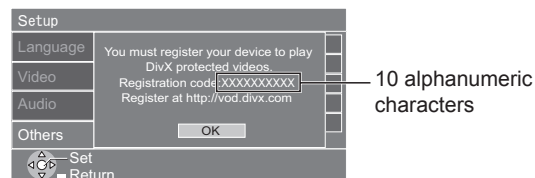
This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies.

To obtain your registration code, locate the DivX VOD section in your device setup menu.

Go to vod.divx.com for more information on how to complete your registration.

Display the unit's registration code

(→ 14, DivX® VOD Registration)



- After playing DivX VOD content for the first time, the registration code is not displayed.
- If you purchase DivX VOD content using a registration code different from this unit's code, you will not be able to play this content.

Cancel the unit's registration.

(→ 14, DivX® VOD deactivation)

Use the deregistration code to cancel the registration in www.divx.com.

Regarding DivX VOD content that can only be played a set number of times

Some DivX VOD contents can only be played a set number of times. When you play this content, the number of times already played and initially playable number of times is displayed.

- The remaining number of plays decreases each time a program is played. However, when playing from the point where play was previously stopped, the remaining number of plays does not decrease due to the resume play function.

Playing CD and data disc

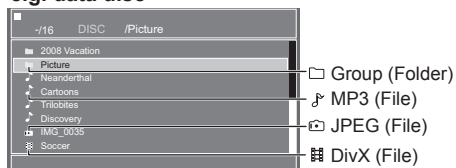
CD MP3 JPEG DivX

Insert a CD or data disc.

While the menu is displayed, press **[▲ ▼]** to select an item and press **[OK]** to play.

- Repeat this step if there are multiple layers.

e.g. data disc



- Press **[RETURN]** to go back to previous screen.

■ Select the picture in thumbnails menu

JPEG

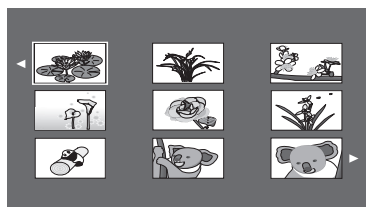
1 While pictures are being played, press **[TOP MENU]** to display the thumbnails.

2 To select a picture in a group

Press **[▲ ▼ ◀ ▶]** to select the picture and press **[OK]**.

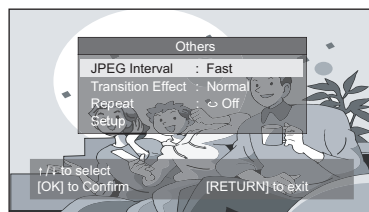
- Press **[▶▶]** to skip forward page by page.
- Press **[◀◀]** to skip backward page by page.

- To exit the screen: Press **[MENU]**.



Transition effect **JPEG**

Press **[DISPLAY]** while playing JPEG.



- Press **[▲ ▼]** to select "Transition Effect".
- Press **[OK]** to select the effect you want.

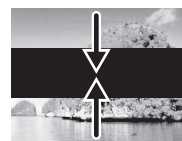
There are 21 effects on this unit.



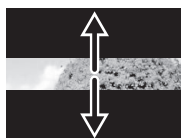
Type1



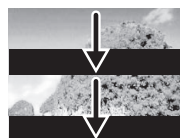
Type2



Type3



Type4



Type5



Type6



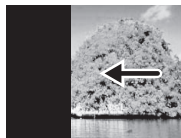
Type7



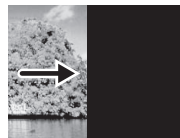
Type8



Type9



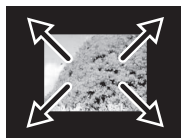
Type10



Type11



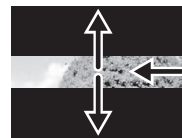
Type12



Type13



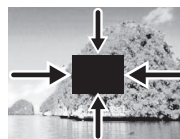
Type14



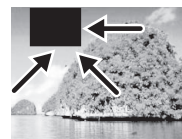
Type15



Type16



Type17



Type18



Type19

Random

Normal

Tips for making data discs

Format: **MP3**

Disc: DVD-R/RW, CD-R/RW

Extension: ".MP3", ".mp3"

Reference:

- Sampling frequency:
DVD-R/RW, CD-R/RW : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz
- Compatible compression rate: between 32 kbps and 320 kbps
- This unit is not compatible with ID3 tags.

Format: **JPEG**

Disc: DVD-R/RW, CD-R/RW

Extension: ".JPG", ".jpg", ".JPEG", ".jpeg"

Reference:

- JPEG files taken on a digital camera that conform to DCF (Design rule for Camera File system) Standard Version 1.0 are displayed.
 - Files that have been altered, edited or saved with computer picture editing software may not be displayed.
- This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play pictures with attached audio.

Format: **DivX**

Disc: DVD-R/RW, CD-R/RW

Extension: ".DIVX", ".divx", ".AVI", ".avi"

Reference:

- DivX files greater than 2 GB or have no index may not play properly on this unit.
 - This unit supports all resolutions up to maximum of 720 × 480.
-
- There may be differences in the display order on the menu screen and computer screen.
 - This unit cannot play files recorded using packet writing.

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This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

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

DivX®, DivX Certified® and associated logos are trademarks of DivX, Inc. and are used under license.

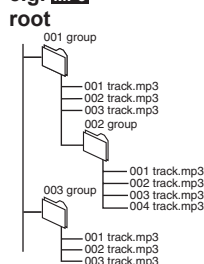
"DVD Logo" is a trademark of DVD Format/Logo Licensing Corporation.

Naming folders and files on data discs

(Files are treated as contents and folders are treated as groups on this unit.)

At the time of recording, prefix folder and file names. This should be with numbers that have an equal number of digits, and should be done in the order you want to play them (this may not work at times).

e.g. **MP3**



DVD-R/RW

- Discs must conform to UDF bridge (UDF 1.02/ISO9660).
- This unit is not compatible with multi-session. Only the default session is played.

CD-R/RW

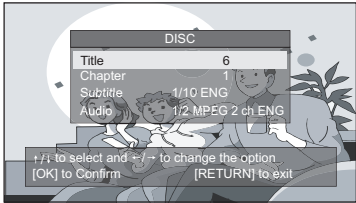
- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

Using On-Screen Menus

e.g. **DVD-V**

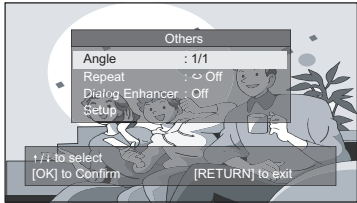
DISPLAY

Press once.



DISPLAY

Press twice.



1 Press [**▲ ▼ ◀ ▶**] to select.

2 Press [**OK**] to set.

- Please follow the on-screen instructions for the operation.

Repeat steps if necessary.

- Items shown differ depending on the type of software.
- Some functions only work during playback.
- To exit the screen: Press [**RETURN**].

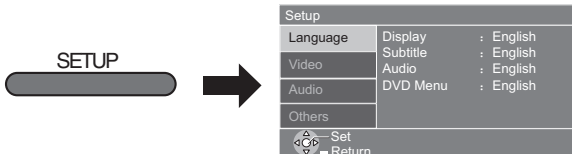
Main menu

Title	To start from a specific item • Press [▲ ▼] to select the item. • Press [◀ ▶] to change the number and press [OK] to play.
Chapter	
Track (VCD with PBC off)	
Subtitle	To change subtitles (Discs with subtitles) • On +R/+RW, a subtitle number may be shown for subtitles that are not displayed.
Audio	To change soundtracks DVD-V Change soundtracks. VCD Select "L", "R", "L+R", "L R".
Angle	To select angles DVD-V with multiple angles
JPEG Interval JPEG	To change the slideshow timing. • Fast • Normal • Slow • Off • "Fast" is the factory preset.
Transition Effect JPEG	To change transition effect. (→ 11)
Repeat	To change repeat mode. • "↺ Group" can only repeat the same type of material if you play a data disc with folders containing two or more types of MP3, JPEG and DivX contents.
Dialog Enhancer DVD-V	Making the dialog in movies easier to hear On ↔ Off
Setup	To change settings in Setup menu. (→ 14)

Changing the player settings

- Referring to the table below, change as required.
 - Underlined items are the factory presets.
 - Items shown differ depending on the type of software.
- The settings remain intact even if you switch the unit to standby.

1



The screenshot shows the 'Setup' menu with the following options:

Language	Display	: English
Video	Subtitle	: English
Audio	Audio	: English
Others	DVD Menu	: English
Set Return		

2



- Press [**▲▼◀▶**] and [**OK**] to set.
- To enter number: press [**▲▼**] to select.

- To return to the previous screen: Press [**RETURN**].
- To exit the screen: Press [**RETURN**] several times.

“Language” tab

Display	• <u>English</u>	• Français	• Español
Subtitle	• <u>English</u>	• French	• Spanish • Off
Audio	• <u>English</u>	• French	• Spanish
DVD Menu	• <u>English</u>	• French	• Spanish

“Video” tab

TV Aspect	Choose the setting to suit your television and preference. • 4:3 Pan&Scan: Regular aspect television (4:3) The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc). • 4:3 Letterbox: Regular aspect television (4:3) Widescreen picture is shown in the letterbox style. • <u>16:9</u>: Widescreen television Use the television's screen modes to change the way the picture is shown.	 
-----------	---	---

“Audio” tab

Dynamic Range	• <u>Off</u> • On: Adjusts for clarity even when the volume is low through compressing the range of the lowest sound level and the highest sound level. Convenient for late night viewing. (Only works with Dolby Digital.)
---------------	--

“Others” tab

Restore Default Settings	This returns all values in the Setup menu and the on-screen menu, except for “Set Password” and “Ratings” to the default settings.
System Information	Display firmware version of this unit.
DivX® VOD Registration	You need this registration code to purchase and play DivX Video-on-Demand (VOD) content. (→ 10)
DivX® VOD deactivation	Cancel the unit's registration. (→ 10)
Set Password	Press to set password. • Enter the default password “8888” then set your password.
Ratings	Setting ratings (When level 8 is selected) • 1 to 7: To prohibit play of DVD-Video with corresponding ratings recorded on them. • <u>8 No Limit</u> When setting a ratings level, a password screen is shown. Follow the on-screen instructions. Do not forget your password. A message screen will be shown if a DVD-Video exceeding the ratings level is inserted in the unit. Follow the on-screen instructions.

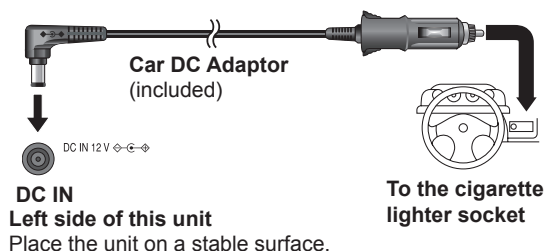
Enjoying in a car

- Do not leave the unit on a surface that may become hot such as a dashboard. The unit is not heat-resistant so may malfunction.
- **DRIVER MUST NOT OPERATE OR VIEW THIS UNIT WHILE OPERATING THE VEHICLE.**
Doing so will distract the driver and could cause a collision resulting in serious injury or property damage.

Connecting the included Car DC Adaptor

Before connection, consult your car owner's manual or your dealer.

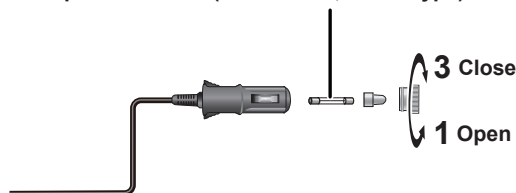
- Connect to the cigarette lighter socket of a vehicle that has a 12 V battery. It is not compatible with a vehicle that has a 24 V battery.
- This is a special negative grounded Car DC Adaptor. Using this Car DC Adaptor with a plus grounded car can cause malfunction and lead to fire.



Replacing the fuse

Replace only with the specified 125 V/250 V, 3.15 A fuse. Use of any other type can cause fire.

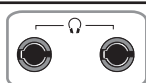
2 Replace the fuse (125 V/250 V, 3.15 A type)



Cautions

• To avoid draining your car battery

- Disconnect the Car DC Adaptor from the cigarette lighter after use. The Car DC Adaptor continues to consume some power even if it is not being used, and if a battery pack is attached to this unit, it will start recharging which uses more power.
- Do not use the Car DC Adaptor for long periods when the engine is not running.
- Turn the unit off before stopping the engine while using Car DC Adaptor, otherwise resume play (→ 9) may not work.
- Leave some slack in the cord.
- No responsibility will be taken for damage that occurs due to faulty installation.



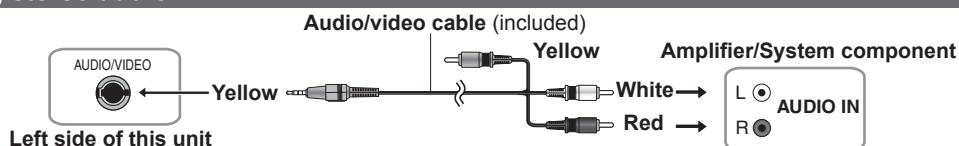
Left side of this unit

You can enjoy audio through your car audio system by connecting a car stereo cassette adaptor (not included) to the headphone jack on the left side of this unit.

Using this unit with other equipment

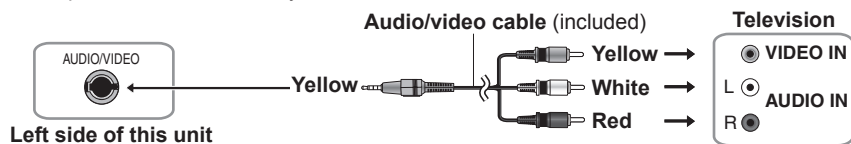
Turn off all equipment before connecting and read the appropriate operating instructions.

Enjoying stereo audio



Enjoying with a television

Connect the video output from this unit directly to the television.



- The unit's speakers do not have magnetic shielding. Do not place the unit near televisions, personal computers or other devices easily influenced by magnetism. Do not keep this unit and magnetized cards (bank cards, commuter passes, etc.) close together.
- If you raise the volume on the television while playing this unit, the volume may abruptly become very loud when you switch to a television broadcast. Return the volume to its normal level before changing.
- Please use the provided Audio/video cable in the accessories.
If you use other Audio/video cables, video and audio may output incorrectly.
- When you connect Audio/Video cable to this unit, the LCD will be off, and video signal is output from VIDEO OUT Jack.

Maintenance

To clean this unit, wipe with a soft, dry cloth.

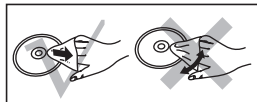
- Use eyeglass cleaner to remove stubborn dirt from the LCD.
- Never use alcohol, paint thinner or benzene to clean this unit.

Maintenance of the lens

- Remove dust carefully with an air blower for camera lenses (optional).
- Recommended product:
Lens cleaner kit (SZZP1038C) (Available from Panasonic dealers.)
- You cannot use a CD type lens cleaner.
- Be careful not to touch the lens with your fingers.

To clean discs

- Wipe with a damp cloth and then wipe dry.



Specifications

Operating temperature range: +5 to +35 °C (+41 to +95 °F)

Operating humidity range: 5 to 85 % RH (no condensation)

Discs played [8 cm (3 ") or 12 cm (5 ")]:

- (1) DVD (DVD-Video, DivX^{*4})
- (2) DVD-R (DVD-Video, JPEG^{*3, 4, 5}, MP3^{*2, 4}, DivX^{*4})
- (3) DVD-R DL (DVD-Video)
- (4) DVD-RW (DVD-Video, JPEG^{*3, 4, 5}, MP3^{*2, 4}, DivX^{*4})
- (5) +R/RW (Video)
- (6) +R DL (Video)
- (7) CD, CD-R/RW (CD-DA, Video CD, SVCD^{*1}, MP3^{*2, 4}, JPEG^{*3, 4, 5}, DivX^{*4})

Signal system: NTSC

LCD screen: 9 inch, TFT wide-screen LCD (640 × 234 × RGB)

AUDIO/VIDEO output:

Output terminal: ø 3.5 mm (1/8") mini jack

Number of terminals: 1 system

Composite-video:

Output level: 1 Vp-p (75 Ω)

Audio:

Output level: 1.5 Vrms (1 kHz, 0 dB, 10 kΩ)

Audio performance:

(1) Frequency response:

- DVD (linear audio):
4 Hz to 22 kHz (48 kHz sampling)
4 Hz to 44 kHz (96 kHz sampling)

- CD audio: 4 Hz to 20 kHz

(2) S/N ratio: 100 dB

(3) Dynamic range: 80 dB

(4) Total harmonic distortion: 0.1 %

Speaker: 1.2 W+1.2 W (10 % Distortion)

Headphone output:

Output: ø 3.5 mm (1/8") stereo mini jack

Number of terminals: 2 systems

Pickup:

Wave length: 655 nm/790 nm (DVD/CD)

Laser power: CLASS 1M/CLASS 1 (DVD/CD)

Power supply:

DC 12 V (DC IN terminal)/DC 7.2 V (Exclusive battery terminal)

Power consumption

(using included AC adaptor): 14 W (Unit only: 12 W)

Power consumption in Standby mode

(using included AC adaptor): approx. 0.4 W

Power consumption in Recharge mode

(using included AC adaptor): 12 W

AC adaptor:

Power source: AC 100 to 240 V, 50/60 Hz

Power consumption: 22 W

DC output: 12 V, 1.3 A

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, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not drop stack, or impact discs. Do not place objects on them.
- To protect discs from scratches and dirt, return them to their cases or cartridges when you are not using them.
- 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.

Car DC Adaptor:

DC output: 12 V, 2 A
(Vehicle with 12 V battery only)

Battery pack (lithium ion)

DY-DB20 (included):

Voltage: 7.2 V

Capacity: 4200 mAh

Dimensions (W × H × D) (excluding protrusions and battery):

242.6 mm (W) × 46.0* mm (H) × 173.5 mm (D)
(9 ⁹/₁₆" × 1 ¹³/₁₆" × 6 ²⁷/₃₂"

*24.6 mm (³¹/₃₂" at lowest point

(H=51.5 mm (2 ¹/₃₂" including battery)

(D=179.3 mm (7 ¹/₁₆" including battery)

Mass (Weight):

(including battery):

approximately 1110 g (39.15 oz)

(without battery):

approximately 878 g (30.97 oz)

Note

Specifications are subject to change without notice.

*1 Conforming to IEC62107

*2 MPEG-1 Layer 3, MPEG-2 Layer 3

*3 Exif Ver 2.1 JPEG Baseline files

Picture resolution:

16:9 picture: 4 × 4 ~ 5760 × 3240 pixels

4:3 picture: 4 × 4 ~ 5760 × 4320 pixels

(Sub sampling is 4:2:0 or 4:2:2)

*4 The total combined maximum number of recognizable audio, picture and movie contents and groups: 2000 audio, picture and movie contents and 200 groups.

*5 Extremely long and slender pictures may not be displayed.

Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the solutions indicated in the chart do not solve the problem, refer to "Limited Warranty" on page 19. (Reference pages are shown in parentheses.)

The following do not indicate malfunction.

- Sound from the AC adaptor during recharging.
- The battery pack warming up when recharging or during use.
- The surface and area around the unit becoming warm when used for long periods.

Power

No power.	• Check connections to the AC adaptor or battery pack. (5) • The unit has protection circuitry that is activated if it becomes too hot or too cold. The unit will not work if this occurs. Use the unit between 5°C (41°F) and 35°C (95°F).
Unit turns off automatically.	• The unit turns off after it has been stopped for about 15 minutes (about 5 minutes when the unit is powered by the battery pack) to conserve power. Turn the unit on again.
Cannot charge or the [CHG] indicator fails to light.	• The charging time increases when the temperature is too hot or too cold, and charging may not be possible under some circumstances. • Check connections to the AC adaptor or battery pack. (5)
Play time dramatically reduced after recharging.	• The battery pack has reached the end of its service life (It can be recharged about 300 times).

No operation

No response when any buttons pressed (U99).	• This unit cannot play discs other than the ones listed in these operating instructions. (7) • 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 power source (AC or battery pack), and then reconnect it. • Condensation has formed: Wait 1 to 2 hours for it to evaporate. • Please insert the disc correctly. (8)
You have forgotten your ratings password.	• Press [◀◀], [] and [▶▶] at the same time in the status of "No Disc". The unit restarts after "Initialized" displaying on the screen. All settings will return to the default values.
No picture or sound.	• Check that the disc has something recorded on it.

Specific operation impossible or incorrect

It takes time before play starts.	• 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. • This is normal on DivX video.
No subtitles	• Display the subtitles. (13)
Play doesn't start.	• If playing DivX VOD content, refer to the homepage where you purchased the DivX VOD content. (Example: www.divx.com/vod) • If a disc contains CD-DA and other formats, proper playback may not be possible.

Sound incorrect

Sound distorted.	• Move unit away from mobile phones.
Effects do not work.	• Some audio effects do not work or have less effect with some discs.
No sound from the unit's speaker.	• The speaker is off if the LCD is closed or headphones are connected. • Turn up the volume. (8)
No sound from other speakers.	• Check all connections and settings. (15)
No sound.	• DivX Audio may not be output due to how files were created. (12)

Picture incorrect

Picture distorted.	There may be some video distortion during search, but this is normal.
Picture stops.	Picture may stop if the DivX files are greater than 2 GB.
No picture on the LCD.	- Check connections. (5) - Select a LCD-SIZE other than "Monitor Off" (No picture). (10), Selecting how to show 4:3 aspect pictures on the LCD) - When you connect Audio/Video cable to this unit, the LCD will be off, and video signal is output from VIDEO OUT Jack.
The LCD is dark.	Adjust the brightness. (10)
LCD pixels turn black or radiate different colors.	The LCD is constructed with precision technology so 99.99 % of the pixels are active, but of the remaining of 0.01 %, there are pixels that may be black or emit light constantly. This phenomenon is not a malfunction.
Picture doesn't appear on the television (or the size of the picture seems wrong).	- Check connections. (15) - Check that the television is on. - Check that the input mode on the television is correct. - Check the settings of "TV Aspect" in "Video" tab. (14) - Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. (15) - Use the television to change the aspect.

Displays

"⊙"	The operation is prohibited by the unit or disc.
"  ERROR 01"	A problem has occurred with the battery pack. Consult your dealer.
"  ERROR 02"	The battery pack has been recharging for 20 hours but has failed to recharge for some reason. Recharge again.
"  ERROR 03"	The battery is recharged in a location that is too hot or too cold. Recharge at normal temperature [+5 to +35°C (+41 to +95°F)].

[⊙] and [CHG] indicators

The [⊙] indicator flashes rapidly.	The unit has malfunctioned. Consult your dealer.
The [⊙] indicator flashes slowly.	The unit is on and the LCD is closed or the LCD-SIZE is set to "Monitor Off" (No picture). Turn the unit off when you have finished.
The [CHG] indicator flashes rapidly.	There is a problem with the battery pack. Turn the unit on and check the message on the LCD. (above)
The [CHG] indicator flashes slowly.	Battery pack charge is low. The unit will turn off automatically after a few minutes.

Frequently asked questions

Reference pages are shown in parentheses.

Can I play a DVD-Video bought in another country?	You can play if the region number includes "1" or "ALL" and the video standard is NTSC. Check the disc jacket. (Cover)
Can I use on an airplane or in a hospital?	Electromagnetic waves that are emitted from this unit may affect equipment on an airplane or in a hospital. Please obey the rules and/or instructions indicated by the hospital or airline.
Can I use in a car?	You can use this unit by connecting with the included Car DC Adaptor for power. Damage may occur if you do not use the specified car adaptor. (15)
Can I connect with a computer?	You can enjoy use of the computer as a television monitor when connecting with the AV input terminal on a computer. However, you cannot operate this unit as peripheral equipment.

Limited Warranty

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT – LIMITED WARRANTY

EXCHANGE PROGRAM

Reference

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship under normal use and for a period as stated below from the date of original purchase agrees to, at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by Panasonic Canada Inc.

Panasonic Portable / Clock Radio (without Tape, CD, MD)	One (1) year
Panasonic Audio Product	One (1) year
Panasonic DVD Product	One (1) year
Accessories including rechargeable batteries	Ninety (90) days

This warranty is given only to the original purchaser, or the person for whom it was purchased as a gift, of a Panasonic brand product mentioned above sold by an authorized Panasonic dealer in Canada and purchased and used in Canada, which product was not sold "as is", and which product was delivered to you in new condition in the original packaging.

IN ORDER TO BE ELIGIBLE TO RECEIVE WARRANTY SERVICE HEREUNDER, A PURCHASE RECEIPT OR OTHER PROOF OF DATE OF ORIGINAL PURCHASE, SHOWING AMOUNT PAID AND PLACE OF PURCHASE IS REQUIRED

LIMITATIONS 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. The warranty **ALSO DOES NOT COVER** damages which occurred in shipment, or failures which are caused by products not supplied by Panasonic Canada Inc., 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, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Authorized Servicer, or damage that is attributable to acts of God.

Dry cell batteries are also excluded from coverage under this warranty.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY. (As examples, this warranty excludes damages for lost time, travel to and from the Authorized Servicer, loss of or damage to media or images, data or other memory or recorded content. This list of items is not exhaustive, but for illustration only.)

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable. This warranty gives you specific legal rights and you may have other rights which vary depending on your province or territory.

CONTACT INFORMATION

For product information and operation assistance, please contact:

Our Customer Care Centre:	Telephone #:	1-800-561-5505
	Fax #:	(905) 238-2360
	Email link:	"Support → contact us → email" on www.panasonic.ca

For defective product exchange within the warranty period, please contact the original dealer or our Customer Care Centre.

RQTC0176

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– If you see this symbol –



Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

User memo:

DATE OF PURCHASE _____
 DEALER NAME _____
 DEALER ADDRESS _____

 TELEPHONE NUMBER _____

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 **DVD-LS92** _____
 SERIAL NUMBER _____

Panasonic Canada Inc.

5770 Ambler Drive
 Mississauga, Ontario
 L4W 2T3
www.panasonic.ca

(En)

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