



In-Dash 7 Inch Wide Color LCD TV/DVD-Video/Receiver Moniteur/télé couleur de tableau de bord à ÉCL de 7 po (diagonale)/ récepteur/lecteur DVD-Vidéo Reproductor de DVD-Video/CD con TV y LCD de 7" de Anhco a Color para el Tablero del Auto

CQ-VD7200U Operating Instructions Manuel d'instructions Manual de Instrucciones





- Please read these instructions carefully before using this product and keep this manual for future reference.
- Prière de lire ces instructions attentivement avant d'utiliser le produit et garder ce manuel pour l'utilisation ultérieure.
- Lea con atención estas instrucciones antes de utilizar el producto y guarde este manual para poderlo consultar en el futuro.

Safety Information

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPLIANCE TO RAIN, SPLASHING, DRIPPING OR MOISTURE.

CAUTION!

THIS PRODUCT UTILIZES A CLASS I LASER. USE OF CONTROLS OR ADJUSTMENTS OR PER-FORMANCE 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 PER-SONNEL.

Laser products:

Wave length: 780 nm Laser power: No hazardous radiation is emitted with safety protection.

CAUTION:

PLEASE FOLLOW THE LAWS AND REGULATIONS OF YOUR STATE, PROVINCE OR COUNTRY FOR INSTALLATION OF THE UNIT.

The following applies only in the U.S.A.

Part 15 of the FCC Rules

FCC Warning:

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

NOTICE:

This product contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: http://www.eiae.org.

Find the model number and serial number on either the back or bottom of the unit. Please record them in the space below and retain this booklet as a permanent record of your purchase to help with identification in case of theft.

MODEL NUMBER SERIAL NUMBER DATE PURCHASED FROM



Panasonic welcomes you to our ever growing family of electronic product owners. We know that this product will bring you many hours of enjoyment. Our reputation is built on precise electronic and mechanical engineering, manufactured with carefully selected components and assembled by people who take pride in their work. Once you discover the quality, reliability, and value we have built into this product, you too will be proud to be a member of our family.

Features

- Integration of the monitor, TV tuner, FM/AM radio, DVD/Video CD player, and CD/MP3 player
 - ullet A CD-R and a CD-RW that hold CD-DA data can be reproduced.
- A CD-ROM, a CD-R and a CD-RW that hold MP3 data can be reproduced.
 MP3 ID3Tag is supported.
- **7-inch wide LCD (Liquid Crystal Display) display** Delivers images of high quality and superb color reproduction.
- **Fully powered display positioning mechanism (except for lateral angle)**
 - Positioning of the display unit is fully power driven. This includes extending the unit, raising it to upright position, adjusting its vertical (tilt) angle and moving it to the front and rear. The lateral angle to the right and left can be adjusted manually.
- **GUI (Graphic User Interface)**

GUI displays various indications with colorful symbols to enhance visibility, enjoyment, and operability.

- Image capture function Images can be imported from TV, VTR, DVD or Video CD for a wall paper.
- Built-in automatic dimmer

The brightness of the screen is automatically adjusted in response to surrounding brightness.

ID code

4-digit ID code for increased security.

External extension terminal

• Two video input (on the hide-away unit side)

You can connect a car navigation system, VCR, camcorder and rear view camera with this unit if they have video output type terminal.

• One video output (on the hide-away unit side)

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You can connect optional monitor for passengers in the rear seat. For example, you can enjoy a map of the car navigation on the front monitor, and passengers in the rear seat can enjoy DVD movie on the rear monitor at the same time. Moreover, different sounds can be played in the front seat and rear seat in the private mode.

CD changer control function

An optional CD changer (CX-DP880U) can be connected.

Note: Dual CD changers can be connected at once by incorporating with CA-CD55 (option).

- Please take note that this model does not support CD-DA/SACD hybrid discs.
- \bullet Please take note that this model does not support Sirius satellite radio.

This book refers to the connection to the Panasonic car navigation system that will come on the market in future. Descriptions regarding the car navigation system are boxed with dotted line.

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- □ SET-UP : Display (Screen) Settings.... 44 Dimmer, display adjustment

- SET-UP : Capture Function 50 Image capture, Wallpaper, Image Deletion
- Bass/treble, balance/fader, subwoofer control

Use This Product Safely

WARNING:

ENJOY THE MUSIC

VTRI

TO AVOID RISK OF SERIOUS INJURY OR POSSIBLE VIOLATION OF LAWS, NOT FOR USE WHERE VISIBLE TO DRIVER FOR ANY PURPOSE OTHER THAN NAVIGATION OR USE WITH REAR VIEW CAMERA.

When Driving

- The driver must not operate the color LCD (liquid crystal display) monitor. Operating the color LCD monitor may lead to carelessness and cause an accident. Stop your vehicle in a safe location when operating the unit.
- The driver must not watch videos while driving. It may lead to carelessness and cause an accident.
- Keep the unit at an appropriate sound level. Driving with the sound at a level that prevents you from hearing sounds outside and around the vehicle may cause an accident.

CAUTION:

Follow local rules and regulations for installing monitor and TV antenna.

When Car Washing

Do not expose the product, including the speakers and discs, to water or excessive moisture. This could cause electrical shorts, fire, or other damage.

When Parked

Parking in direct sunlight can produce very high temperatures inside your car. Give the interior a chance to cool down before switching the unit on.

Use the Proper Power Supply

This product is designed to operate with a 12 V DC, negative ground battery system (the normal system in a North American car.)

Disc Mechanism

Do not insert coins or any small objects. Keep screwdrivers and other metallic objects away from the disc mechanism and disc.

Protect the DVD Software

When you leave the car, be sure to eject the disc from this unit and take it with you.

Use Authorized Servicenters

Do not attempt to disassemble or adjust this precision product. Please refer to the Servicenter list included with this product for service assistance.

For Installation

The product should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°. The user should bear in mind that in some areas there may be restrictions on how and where this unit must be installed. Consult your dealer for further details.

This system is designed so that you cannot see the moving picture while you are driving.

- Park your car in a safe place and engage the side brake (parking brake) lever before watching the monitor.
- A rear monitor (option) displays moving picture while driving.

Note: Be sure to connect the side brake (parking brake) connection lead. (-> page 76)

Cautions:

- Picture might not be displayed, or it might take more time than usual to display picture at low temperatures. Also, movement of picture might become labored, or picture quality might deteriorate at low temperatures. [practicable temperature: 32 °F to 104 °F (0 °C to 40 °C)]
- Do not touch the LCD (liquid crystal display). If you touch the LCD, your fingerprints will be visible because the surface of the LCD is specially processed.
- In some cases, noise is generated. It depends on the position or direction of a mobile phone and a CB transiever, etc. Change the position or direction of the mobile phone and a CB transiever, etc. or keep them away from the unit.

ID Code

Prior to operating this unit, it is a advisable to assign your 4-digit ID code for security. (Make sure to use **four digits** for ID code.)

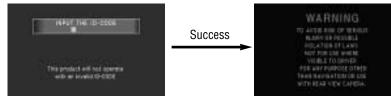
Once the ID code has been set, the unit cannot be operated if the main power supply is disconnected then re-connected. It is electronically locked so that a thief could not use the stolen unit unless that person knows the code you have set. The ID code operation must be performed only by the person to whom the unit belongs.

Generally, it is not necessary to enter the ID code each time when using the unit if it has never been disconnected from the main power supply (car battery). For the ID code setting procedures, see pages 40-41.

Caution: Record your registered ID code and keep it in a secure location. If you forget it, you will be unable to use the unit. If you cannot operate the unit because you forget the ID code, please consult your nearest Panasonic Servicenter.

ID Code Input

Enter the ID code after turning on the power and activating the display.



Note: When you fail in entering the ID code, a screen on the right is displayed and the unit beeps three times. Enter a correct ID code.

If you fail to enter the correct ID code three times consecutively, the power is turned off. Turn on the power again and enter a correct ID code in this case.

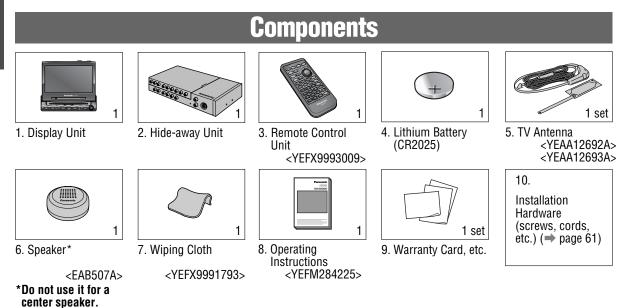
HAPLY THE ID-COOL

The protect will not every will be invalid 0-000

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Components/Remote Control Unit Preparation



Note:

• The number in parenthesis underneath each accessory part name is the part number for maintenance and service.

• Accessories and their parts numbers are subject to modification without prior notice due to improvements.

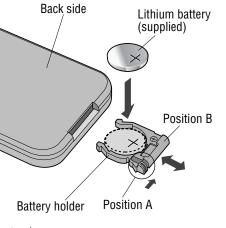
Remote Control Unit Preparation

Battery Installation (Inserting/Replacing the Battery)

Remove the battery holder.

- Pull the holder by the position B while pushing position A in the direction indicated by the arrow.
- Install the battery on the battery holder. Set a new battery properly with its (+) side facing up as shown in the figure.
- Insert the battery holder. Push the battery holder back into its original position.

Remove and dispose of the old battery immediately.



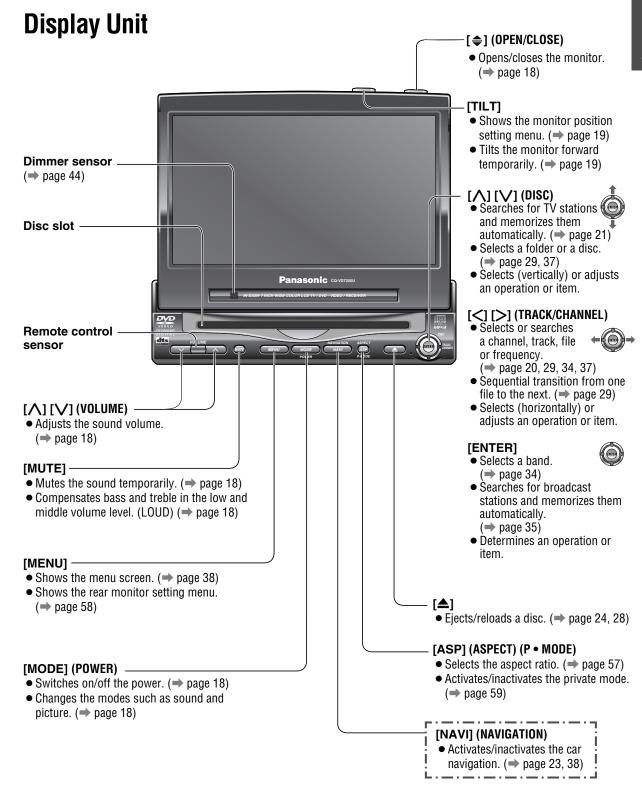
Battery Type: Panasonic lithium battery (CR2025) (supplied)
 Battery Life: Approximately 6 months with normal use (at room temperature)

- Dattory Line. Approximately o months with normal use (at 100m temperature)

Caution: Improper use of batteries may cause overheating, an explosion or ignition, resulting in injury or a fire.

- Do not disassemble or short the battery. Do not throw a battery into a fire.
- Keep batteries away from children to avoid the risk of accidents.
- Be careful to observe proper local disposal rules when you dispose of batteries.





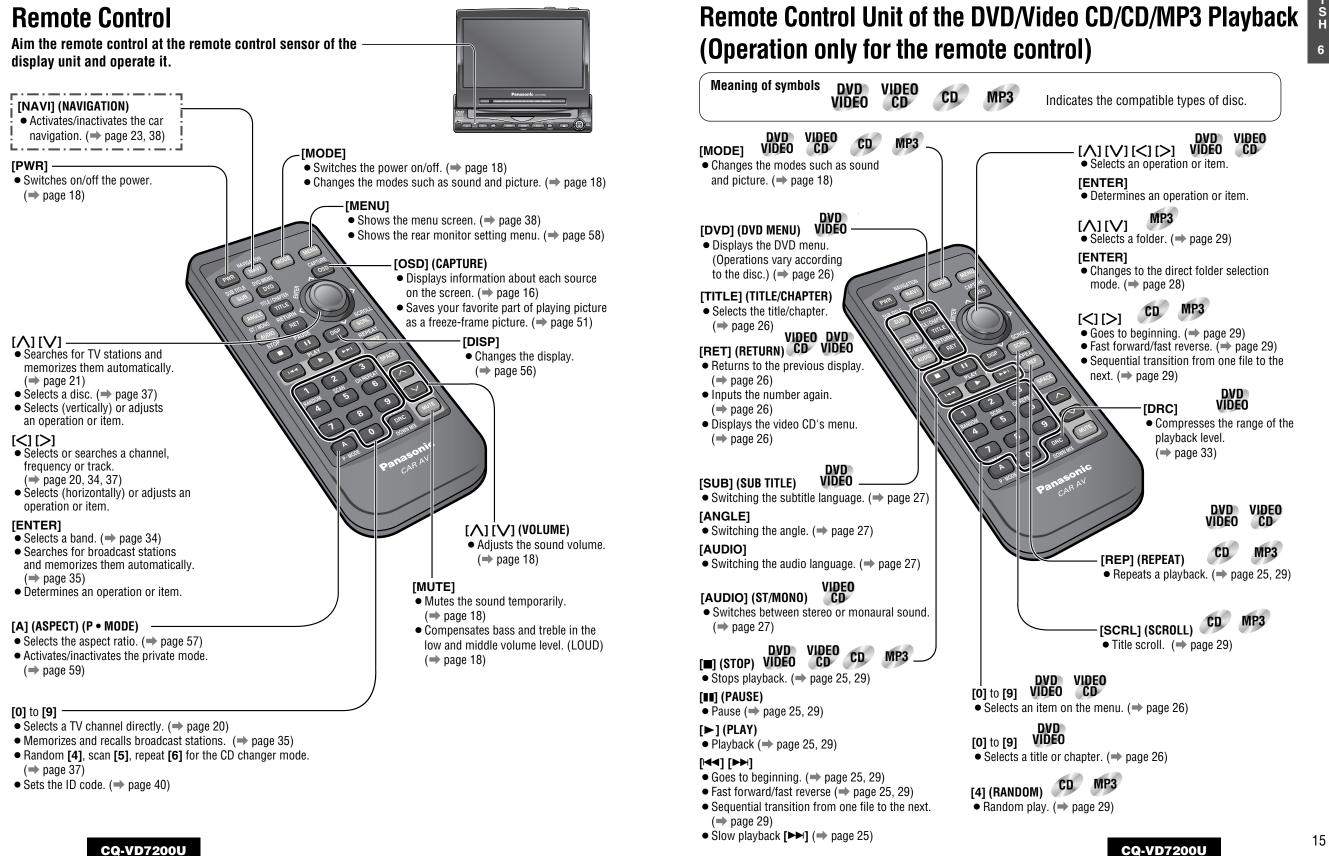
Note: Refer to "Electrical Connections" for names on the rear of the hide-away unit. (-> page 74-75)

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Batterv Notes

Battery Information:

Name of Controls and Functions (continued)



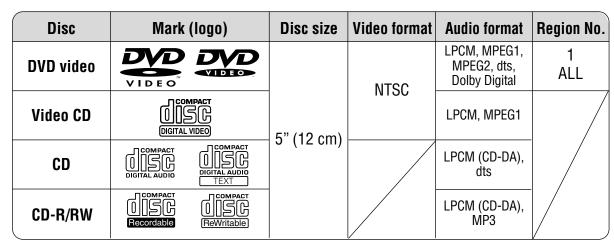
Indications on the Screen

The State of the Current Output Appears

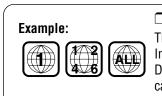
Note: Contents displayed and their positions partly vary with each mode. Refer to the description of each mode for details.

Example: DVD Mode (OSD on → see below)	Image•Sound/Mode Display The current mode appears. Image and sound (TV/VTR1•2/DV Image : Sound (Radio (AM/FM)/CD/MP3/0		
When the car navigation mode is set to ON.	Disc Indicator	Clock Time Default: off (→ page 48) 12:00 Additional Information Channel,	
Prohibition Input is not possible because a sound- track, subtitle lan- guage or angle num- ber which was not		Source type, various set- tings, etc.	
recorded on the disc has been selected or because the user has	ne 01:52′39 title 01 chapter 006 y	DIGITAL REPERT REPERT Information of Each Mode Playing elapsed time, title, preset list, etc.	
OSD (On-Screen Display) O	n/off	
You can switch between OSD-ON and O	SD-OFF regarding the mode information.		
OSD on	(During playback) Press [OSD] on the Remote Control.	OSD off	
	operation is made (for 4 seconds). ween on and off only in the TV, VTR1/2, DVE MP3, RADIO and CD changer modes, pressi		

Discs that can be Played Back



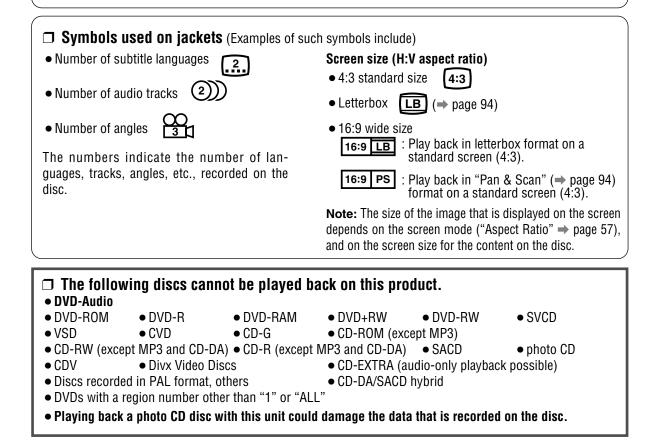
Note: About CD-Rs and CD-RWs, refer to "Notes on CD-Rs/RWs". (→ page 93)



Region Management Information

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

The Region number for this product is "1" and "ALL".



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General

Power

E N G

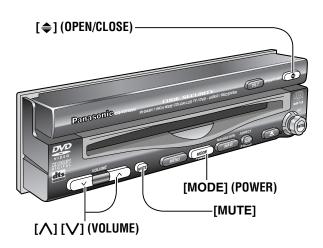
I S H

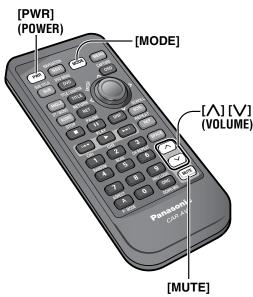
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Turn your car's ignition key to ACC or ON position. ON: press [MODE] (POWER) on the display unit. Press [PWR] or [MODE] on the remote control.

OFF: press [MODE] (POWER) again for more than 2 seconds on the display unit. Press [PWR] again or [MODE] again for more than 2 seconds on the remote control.





Display Open/Close

OPEN: press [] (OPEN/CLOSE) CLOSE: press [] (OPEN/CLOSE) again.

(After returning the lateral angle to the neutral position.)

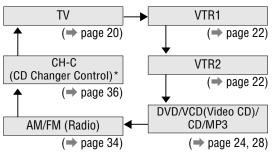
Notes:

- When the display unit is opened or closed, a loud beep sounds three times.
- If the unit stops halfway, press [♣] (OPEN/CLOSE) again and draw it all the way in.
- Opening/closing the display can be done when the power is off.

Warning: Do not touch the unit while the display is moving. Inserting hands, fingers or foreign objects into the unit can cause injuries and damage to the unit.

Mode

Press [MODE] to change the mode.



* Selectable only when a CD changer is connected.

Volume

VOL 20

Setting Range : 0 to 40 Note: The sound level for each source is stored in memory.

Mute

MUTE ON: press [MUTE]. MUTE OFF: press [MUTE] again.

Loudness



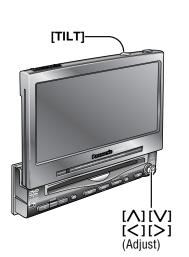
NUTE

When listening at low or medium volume, enhance bass and treble tones. LOUD ON: press and hold [MUTE] for more than 2 seconds. LOUD OFF: press and hold [MUTE] for more than 2 seconds again.

Monitor Position Adjustment

Cautions:

• For smooth adjustment, make sure to first return the lateral angle to the neutral position and then adjust the tilt angle. • Avoid physical shock on the monitor.





Tilt Angle/Front-Rear Position

Press and hold **[TILT]** on the display unit for more than 1 second.

Press $[\Lambda]$, $[\vee]$, [<] or [>] to adjust.

The setup is the same way as the one from MENU. Refer to "SET-UP : User Settings" for details. (
page 38)

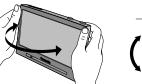
Notes:

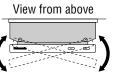
- Vertical angle (TILT) and front-rear position data are saved in the memory, so when the display unit is drawn out next, it is automatically set at the angle and in the position adjusted before.
- After adjusting its angle, also adjust the brightness to make it easy for you to watch. (\Rightarrow page 44)
- The car model and installation condition may impose some restrictions on the adjustment of the monitor's angle and position.

Caution: Do not interfere with the movement of the monitor. Do not change the position of the unit forcibly.

Display Unit Lateral Angle Adjustment

Hold the display unit by the non-slip part on the upper half of it, and adjust its lateral angle.





Caution: There is the danger of your fingers being pinched if you hold the unit by the lower part. Hold the unit by the upper half, and move it carefully without applying undue force.

Folding Down the Display Temporarily

Fold Down: press [TILT] on the display unit. Raise: press [TILT] again on the display unit.



Note: Even when the unit is off, you can fold down the display temporarily.

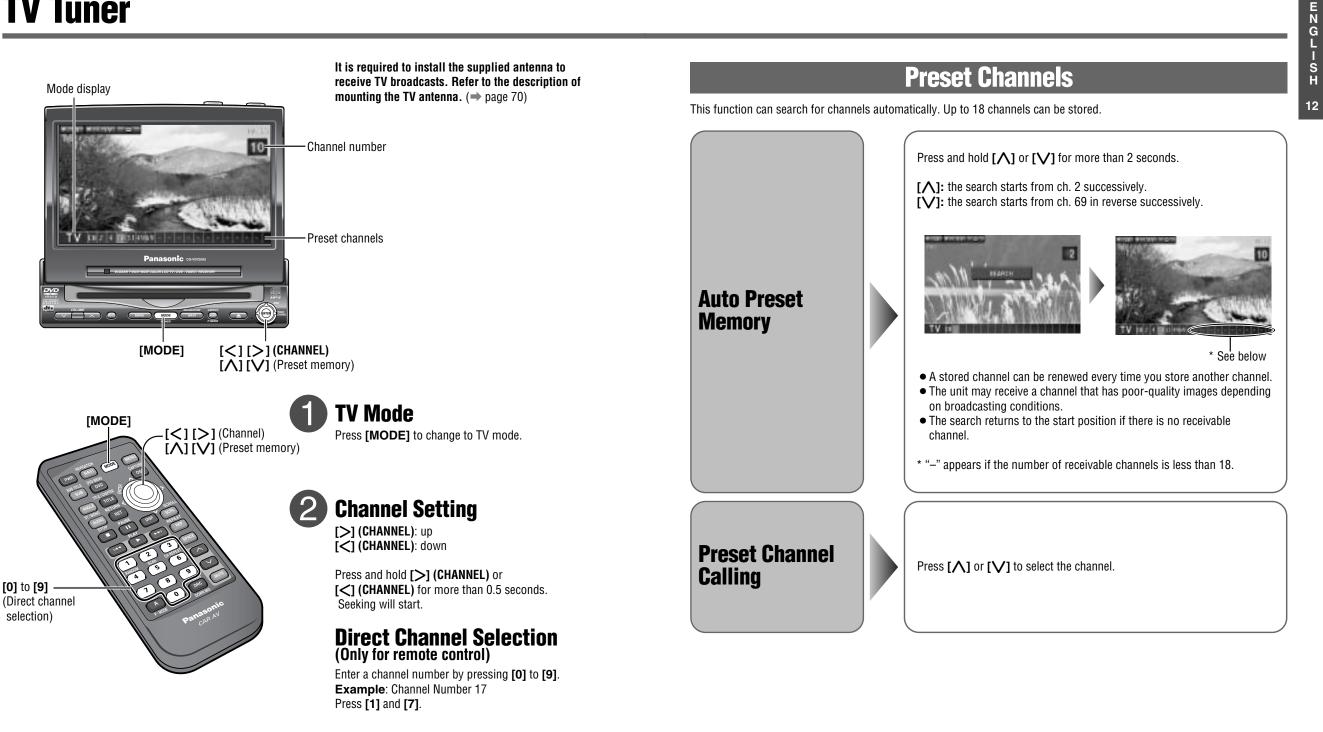
Caution: Do not place any object on the display unit, or subject it to undue force.

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[**1**] (VOLUME): up [V] (VOLUME): down



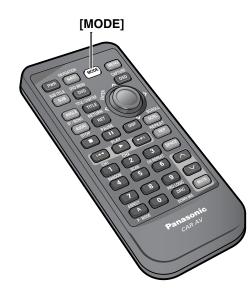
TV Tuner



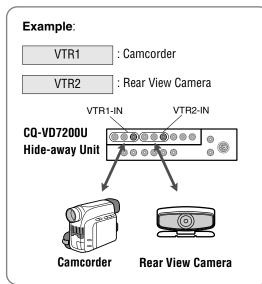
Mode display



[MODE]



You can view the images and listen to the sounds from the connected external devices in the VTR1 mode and VTR2 mode respectively.



VTR1/VTR2 Mode Press [MODE] to change to VTR1 or VTR2 mode.

Note: You can set up the system so that the VTR mode is not selected (VTR skip). (→ page 42)

(VTR set to either CAMERA INPUT and NAVI INPUT is not skipped even if VTR skip is set to on.)

External De	vices Connectable to VTR1/VTR2
Refer to "Electrical Connections" for ea	ch external device connection. (→ page 80-81)
VCR/Camcorder	Select the same mode (VTR1 or VTR2) as the terminal that is connected to a VCR or Camcorder (VTR1-IN or VTR2-IN).
Rear View Camera	Select the same mode (VTR1 or VTR2) as the terminal that is connected to a rear view camera (VTR1-IN or VTR2-IN). Note: It can also be set to switch to an image through the rear view cam- era automatically if the shift lever is put into the reverse position. (-> page 40)
Car Navigation	Select the same mode (VTR1 or VTR2) as the terminal that is connected to a car navigation system (VTR1-IN or VTR2-IN). Note: It can also be set to switch to an image and sound through the car navigation system only by pressing [NAVI] (NAVIGATION). (→ page 38)
Note: VTP1 and VTP2 terminals are	not used for the Panasonic car navigation system (available in future). Refer to

"Electrical Connections" for connection (→ page 72-75) and "Navigation Set Up" for setting. (→ page 38)

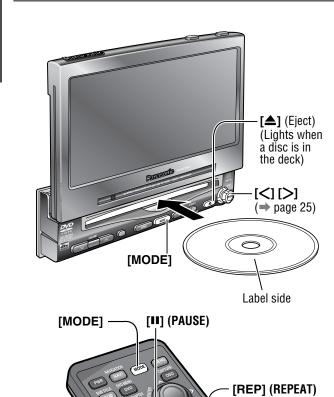
DVD/Video CD Player

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Disc Insert

- The mode that supports the disc is selected, and playback starts.
- The audio format is automatically identified.
 (⇒ page 32)
- When the menu screen appears, see "DVD Menu/ Video CD Menu" on page 26.

When DVD or Video CD is in the player, press [MODE] to change to DVD or Video CD player mode and playback starts.

Notes:

- Do not insert a disc when disc indicator
 or eject button lights because a disc is already loaded.
- The power will be turned on automatically when a disc is loaded.
- You can play a disc even if the monitor is closed.
 The sound may be interrupted for a few moments
- while the audio format is being identified.

Cautions:

Do not use irregularly shaped discs.
Do not insert foreign matter into the disc slot.

Disc Eject

Press [**△**] to stop playback and eject the disc. (Press [**△**] again to reload the disc.)

Note: If you leave a disc in the slot for more than 30 seconds after its ejection, the disc will be automatically reloaded after loud beep is energized three times.

Notes:

- Due to limitations of certain discs, some DVD video and Video CD discs may not operate as described in these Operating Instructions. Refer to the disc jacket for further details.
- This unit does not support DVD and Video CD karaoke functions.

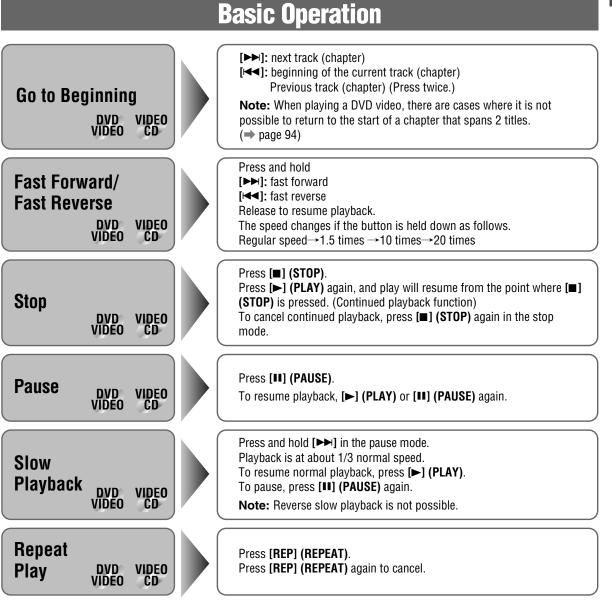
Video CD mode display

Sound setting (Stereo/monaural)



Mode display Playing time Play setting

Perform these operations (\Rightarrow page 25-27) with the remote control. Operations vary according to the disc. For details, refer to the guide provided with the disc.



Note: It is possible to press [<] [>] on the display unit instead of [+] [+] on the remote control. ([>] on the display unit cannot be used in place of [+] that is used for slow playback.)

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DVD line (

Mode display

[■] (STOP)

[►] (PLAY)

(→ page 25)

DVD mode display

Subtitle language/audio language/angle

chapter 881

Disc indicator

Audio format (→ page 32)

Playing time Play setting

Title number

Chapter number

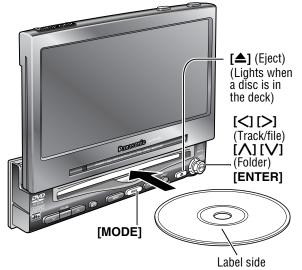
Chapter/Title Selection Useful Function 17 Press [SUB] (SUB TITLE) during playback. Example: • Press [DVD] (DVD MENU) during Switching the **DVD Menu**/ DVD plavback. MENU DVD It is possible to change the subtitle language during play if the multiple **Subtitle** (For the Video CD menu, press **[RET]** languages are recorded on the disc. Video CD Menu 1. SUBTITLE (**RETURN**) during playback.) Language **Note:** There may be a brief delay before the subtitles appear. 2. AUDIO Use this menu during **2** Press [**<**], [**>**], [**∧**] or [**∨**] to 3. ANGLE playback to select content, select the preferred menu. audio, subtitle, etc., from a For the DVD/Video CD with playback Switching the Press [AUDIO] during playback. Select your favorite music. menu (the DVD/Video CD control (\rightarrow page 94), press [0] to [9] Audio 1. Love Supremes menu) that is unique to each on the remote control. It is possible to change the audio language during play if multiple audio DVD VIDEO disc. 2. Impressions languages are recorded on the disc. O Press [ENTER]. Language DVD VIDEO VIDEO CD 3. In a Sentimental Mood To return the previous display, press Number: [RET] (RETURN). Press [ANGLE] during playback. Switching the For DVDs which contain scenes which have been shot simultaneously Angle from a number of different angles the same scene can be viewed from Example: • Press and hold [DVD] (DVD MENU) for each of these different angles during play. more than 2 seconds during playback. **TITLE MENU Title Menu 2** Press $[<], [>], [\land]$ or $[\lor]$ to Rivers Castles Press [AUDIO] (ST/MONO). If the DVD has multiple titles select the preferred title. recorded on it. it is possible It is possible to switch the audio between stereo sound and monaural For the DVD with playback control Lovers Woods to select the preferred title sound (L or R). (→ page 94), press [0] to [9] Switching between from the title menu to start on the remote control. STEREO : stereo sound playback. Stereo and Press [ENTER]. Monaural : the left channel audio is output on both the left and MONO Lch To return the previous display, press [RET] (RETURN). right speakers. the right channel audio is output on both the left MONO Rch and right speakers. Press [TITLE] (TITLE/CHAPTER) **Regular Mode** to select the input mode. The mode [TITLE] Notes: changes as shown at right every [DVD] (TITLE/CHAPTER) Chapter Number Input Mode • If no operation is performed for 5 sectime [TITLE] (TITLE/CHAPTER) is (DVD MENU) (⇒ page 26) onds, the display returns to the regular pressed. (⇒ page 26) **Title Number Input Mode** mode. $(\langle | \rangle | \langle \rangle | \langle$ **2** Press **[0]** to **[9]** to input preferred It may not be possible to switch the lan-(Select) title/chapter number. [SUB] guage unless the unit is at the DVD menu [ENTÉR] (SUB TITLE) **Starting Playback** To input the number again, press (page 26) or is at the DVD settings. (⇒ page 26) [RET] (RETURN). from a Specific $(\Rightarrow$ page 46) • Press [TITLE] (TITLE/CHAPTER). [ANGLE] [0] to [9] • The language on the DVD settings has a title III chapter IB **Title/Chapter** Playback will start automatically. (Title/chapter priority over when the power is turned on "►" lights on pink Number) or the disc is loaded. (\Rightarrow page 46) [AUDIO] Notes: (⇒ page 26) (ST/MONO) • The number of languages depends on the • For the VCD mode, do not press [TITLE] (TITLE/CHAPTER) but press disc. Some discs have only one language the numerical key to enter a number directly. or have no language. [RET] (RETURN) • If no operation is performed for 8 seconds after [TITLE] (TITLE/ (**→** page 26) **CHAPTER)** has been pressed, the display returns to the regular mode. • If the title/chapter number is pressed and no operation is performed for 2 seconds, the playback will start from the number of the title/chapter entered.

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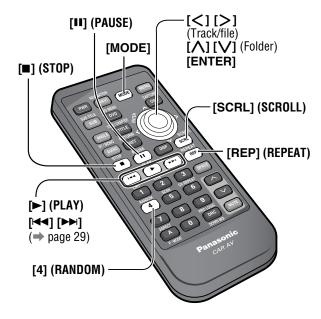
CD/MP3 Player



CD/MP3 mode display Mode display



Play setting Track number Play time



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Disc Insert

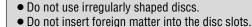
The mode that supports the disc is selected, and playback starts.

When a disc is in the player, press [MODE] to change to CD or MP3 player mode and playback starts.

Notes:

- Do not insert a disc when disc indicator or eject button lights because a disc is already loaded.
- The power will be turned on automatically when a disc is loaded.
- You can play a disc even if the monitor is closed.

Cautions:



Disc Eject

Press [**△**] to stop playback and eject the disc. (Press [**△**] again to reload the disc.)

Note: If you leave a disc in the slot for more than 30 seconds after its ejection, the disc will be automatically reloaded after loud beep is energized three times.

Direct Folder Selection MP3

- Press [ENTER] during playback.
- Press [<], [>], [^] or [V] to select a folder.
 [<] [>] : movement among different levels of trees
 [^] [V] : movement in the same tree

Press [ENTER].



: MP3 files are included

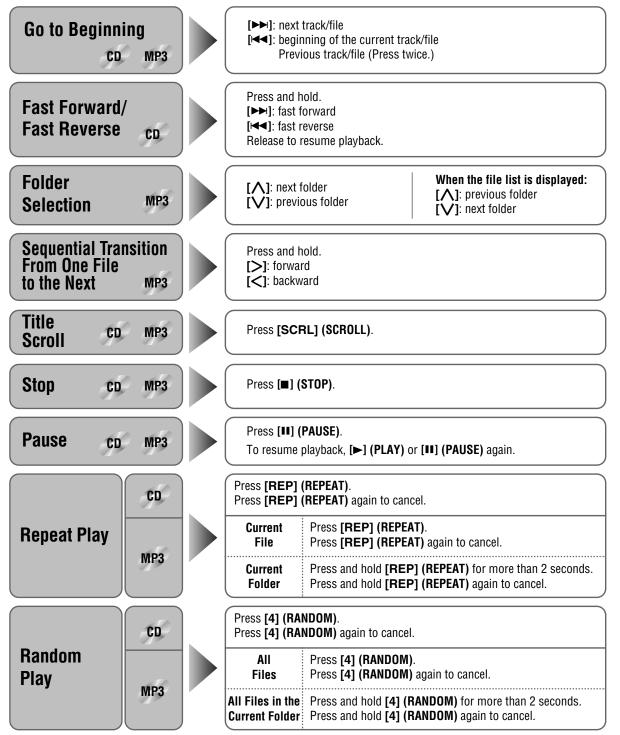
🛅: No MP3 files

Note: It is not possible to display the whole trees and a file list in a folder.

For "Folder selection order/MP3 file playback order". (\Rightarrow page 31)

Basic Operation

Perform these operations with the remote control.



Note: It is possible to press [<] [>] on the display unit instead of [I

This player allows you to play MP3 files recorded on CD-ROMs, CD-Rs (Recordable) and CD-RWs (Rewritable).

What is MP3?

MP3, short for MPEG-1 Audio Layer 3, MPEG-2 Audio Layer 3 LSF (Low Sampling Frequency), is a standard for compressing digital video data adopted for video CDs and similar media. It is one of the audio compression systems covered by MPEG's (Motion Picture Experts Group) digital audio compression standards. What it does is reduce the number of bytes in a song without detracting from the sound quality by eliminating big sound waves within the sound range that is imperceptible to the human ear. This compression allows you to reduce the contents of a conventional music CD by a factor of around 10. This means that you can record the contents of 10 music CDs on a single CD-R or CD-RW. (The figures refer to data recorded on a 650 MB CD-R or CD-RW at a fixed bit rate of 128 kbps and a sampling frequency of 44.1 kHz.)

Points to Remember When Recording an MP3 Disc

Converting (encoding) audio data to an MP3 file

- It is recommended that you set the bit rate to "128 kbps or more" and "Fixed".
- Bit rate 8 kbps of MPEG-2 and sampling frequency 16 kHz of MPEG-2 can not be reproduced.
- VBR (Variable Bit Rate) is not supported.
- The playback sound quality differs depending on the encoding software and the bit rate. For details refer to the user manual of your encoding software.

Recording MP3 files on a CD-R/RW

- Do not record files other than MP3s or unnecessary folders on a disc. If many folders or files other than MP3s are recorded on a disc, it may take some time before playback starts.
- Use ISO 9660 file system (Extension of the ISO 9660 file systems are included.) (→ page 31). APPLE HFS file system is not supported. If they do not conform to ISO 9660 file system, the file may not play normally, or the file or folder names may not be displayed correctly.
- Make sure to add the ".mp3" extension to each MP3 file name. A file with a different file name extension or none at all will not play.
- Although Multi session recording is supported, the use of Disc-at-Once is recommended. Make sure to close the session when you finished recording on a disc.
- \bullet A disc recorded by the packet writing software are not supported.
- A playlist function is not supported. Record files and folders in the order in which you want them to be played. Some writing software lets you specify the recording order by adding a prefix in the range of "01" "99", etc. to the file name. For details refer to the user manual of your writing software.

Notes:

- You may encounter trouble in playing MP3s or displaying the information of MP3 files recorded with certain writing softwares or CD recorders (CD-R/RW drives).
- If a disc contains both MP3 and CD-DA, only CD-DA data is reproduced properly. (MP3 files are played but no sound is output).

Warning: Never assign the ".mp3" file name extension to a file that is not in the MP3 format. This may produce noise from the speakers and cause speaker damage and can damage your hearing.



Folder Selection

In the order

 $1^{-1} \sim 6^{-1}$

In the order

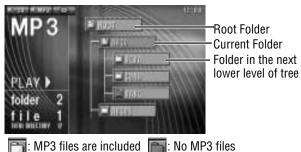
 \square

(1)

File Selection

5

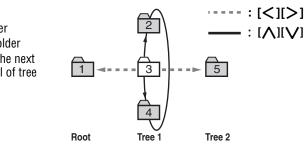
(4)



Root Folder (Root Directory)

-13

Tree 3



Notes:

- This unit counts the number of folders irrespective of the presence or absence of MP3 file.
- If the selected folder does not contain any MP3 files, the nearest MP3 files in the order of playback will be played.
- Playback order may be different from other MP3 players even if the same disc is used.
- "RÓOT" appears when displaying the root folder's folder name.

Maximum number of files/folders

5

6

 $\square 4$

Tree 2

• Maximum number of trees: 8

Root Tree 1

2

(ft)

- Maximum number of folders: 254 (Root folder is not included.)
- Maximum number of files: 512

Note: If the number of files and folders exceeds the number mentioned above, successful playback may not be performed.

Supported file systems and file names

Supported file system	Displayable folder names and file names	
ISO 9660 Level 1/Level 2	Name files and folders in accordance with the standard of each file system. Refer to the instructions of writing software for details.	
Joliet*	 This player can display file names of up to 31 ASCII character set in scroll mo * Up to 15 letters can be displayed when scrolling in the Joliet system. According to the standard, "á", "ç", etc. can be used. However, this unit can not display those letters. The unit recognizes only ASCII character set. Chinese characters, accented 	
Romeo		
Apple Extension to ISO 9660	French characters and accented Spanish characters will be converted into an asterisk.	

Note: MP3 encode software and writing software are not supplied to this model.

Copyright

It is prohibited by copyright laws to copy, distribute and deliver copyrighted materials such as music without the approval of copyright holder except for personal use.

No warranty

Above description complies with our investigations as of December 2003. It has no warranty for reproducibility and displayability of MP3.

Audio Formats



□ LPCM (Linear PCM) DVD VIDEO CD CD

In this format, the audio signal is converted to digital data and recorded in two channels without compression. Because the capacity of a DVD video disc is large, it can store more data with better accuracy than a CD.

Note: "LPCM" is displayed only for DVD video discs.

Dolby Digital



DVD VIDEO DIGITAL

This fully discrete format divides the music signals into 5.1 channels: Front Left (L), Front Right (R), Center (C), Left Surround (LS), Right Surround (RS) and Subwoofer (SW: 0.1 channel) for recording and playback. The number of channels that are recorded depends on the software. (1 to 5.1 channels)



Surround Format VIDEO

PRO • LOGIC

dts

This format records signals from four channels [Front Left (L), Front Right (R), Center (C), and Monaural Surround (S)] in two channels, decodes those channels through a Dolby Pro Logic decoder, and then outputs the resulting signals in four channels.

🗆 dts

This format requires more data than Dolby Digital, and provides higher quality surround playback.

VIDEO

Similar to Dolby Digital, this fully discrete format divides the music signals into 5.1 channels: Front Left (L), Front Right (R), Center (C), Left Surround (LS), Right Surround (RS) and Subwoofer (SW: 0.1 channel) for recording and playback.

Notes:

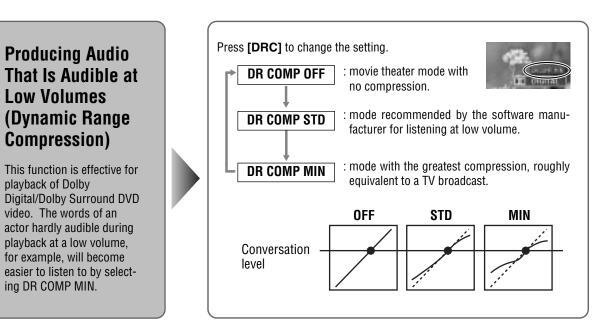
- Only in cases where the Digital Audio Output (optical) of this product is connected, dts audio will be output. (>> page 82)
- To output 5.1-channel audio signals, other device must be connected. (>> page 82)
- DVD-recorded audio data, such as **EXECUTALS**, will be displayed on the screen. The audio to be actually reproduced may differ from the display on the screen depending on the setting.

VIDEO

CD

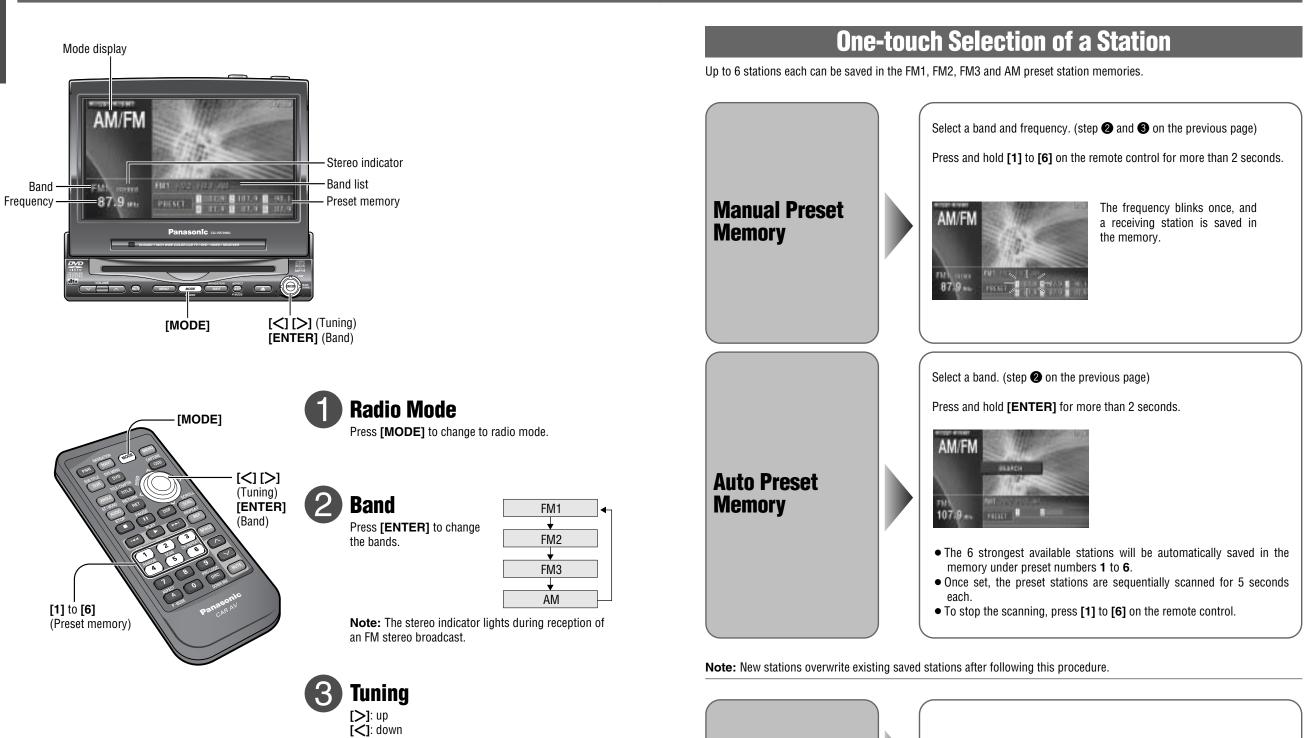
VIDEO

CD



Indicates the compatible types of disc.

Radio



Preset Station

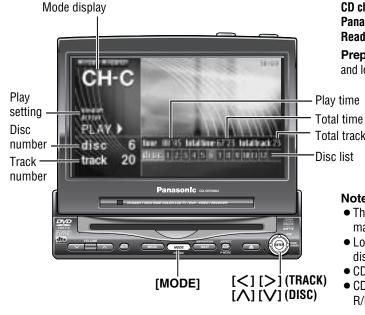
Calling

Press and hold [>] or [<] for more than 0.5 seconds, then release. Seeking will start and stops at next available station.

Select a band. (step ${f Q}$ on the previous page)

Press [1] to [6] on the remote control.

CD Changer Control





[6] (CH REPEAT) (Changer repeat)

CD changer functions are designed for an optional Panasonic CD changer unit. Read the operating instructions for CD changer as well. **Preparation:** Connect the CD changer (> page 78, 79). and load a magazine (disc).

Play time

Total track

Notes:

- The power will be turned on automatically when a magazine is loaded.
- Load a magazine with CDs when "NO MAGAZINE" is displayed.
- CD text is not supported in CD changer mode.
- CD changer cannot play MP3 data recoded CD-R/RW discs.

Caution: Do not use irregularly shaped CDs.

CD Changer Mode

Press [MODE] to change to CD changer mode and playback starts.

System Expansion

The use of Dual CD Changer Selector CA-CD55 (option) allows you to make the following connections. (➡ Page 79)

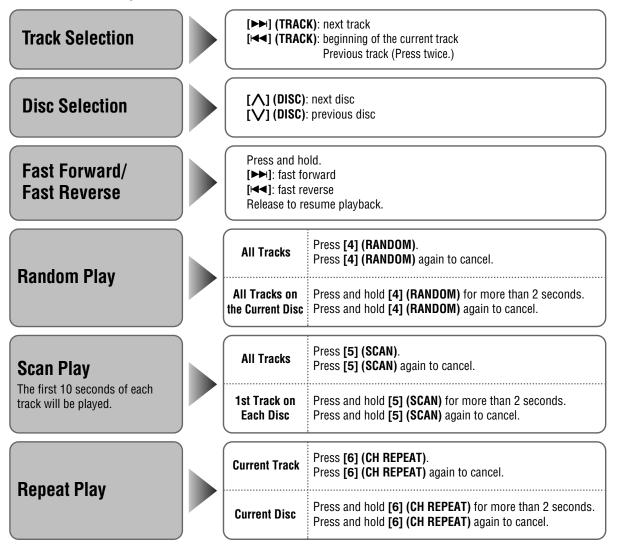
Dual changers connection

Two changers can be connected to the terminals of CA-CD55 respectively. The changers are arranged as follows.

[1]: CH 1 [2]: CH 2

Basic Operation

Perform these operations with the remote control.



Note: It is possible to press [<] [>] on the display unit instead of [H] [→] on the remote control.

SET-UP: User Settings

• Press [MODE] to return to the regular mode. • The display returns to the previous one if there is no operation for more than 60 seconds after changing to the setting menu.



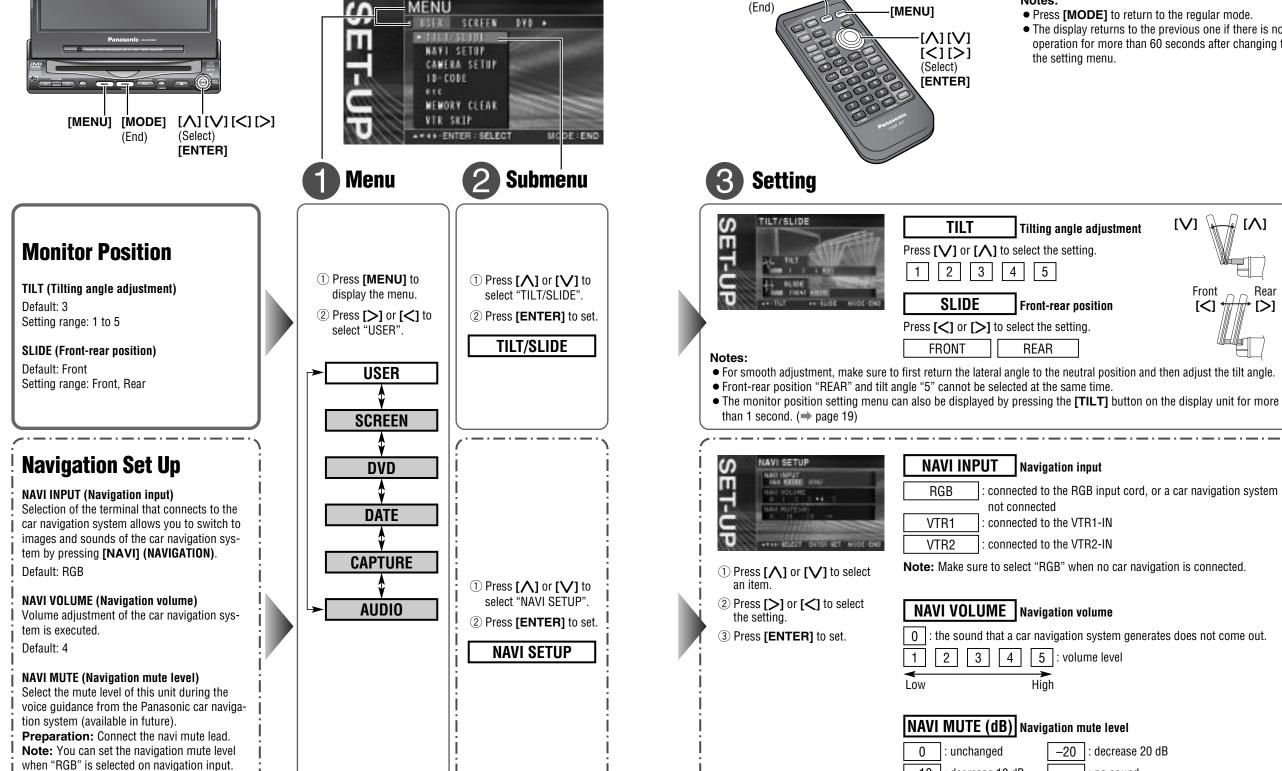
Rear

[↓] [>]

nn

E N G

. В Н



[MODE]

Default: -10 dB

38

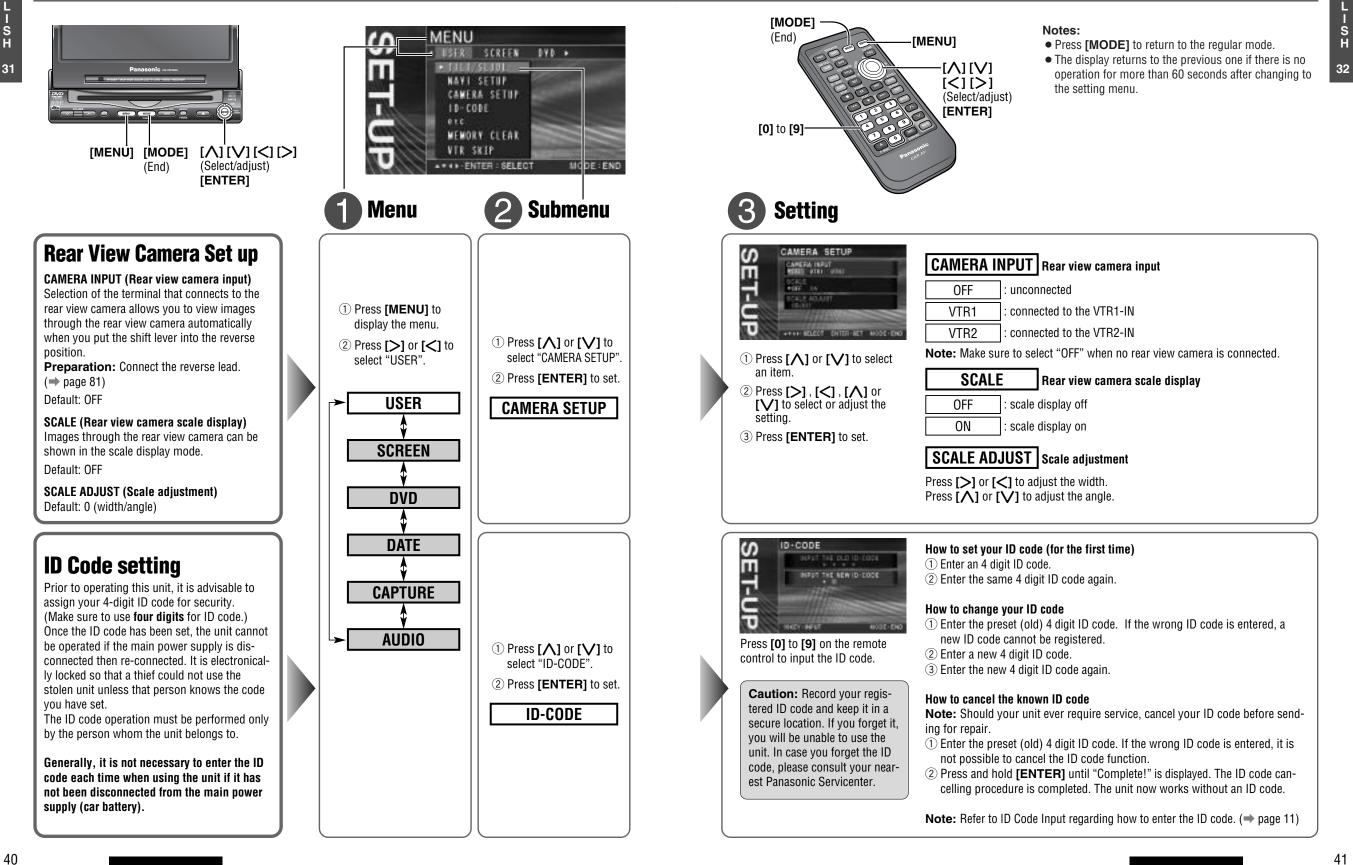
no sound

- ∞

-10

: decrease 10 dB

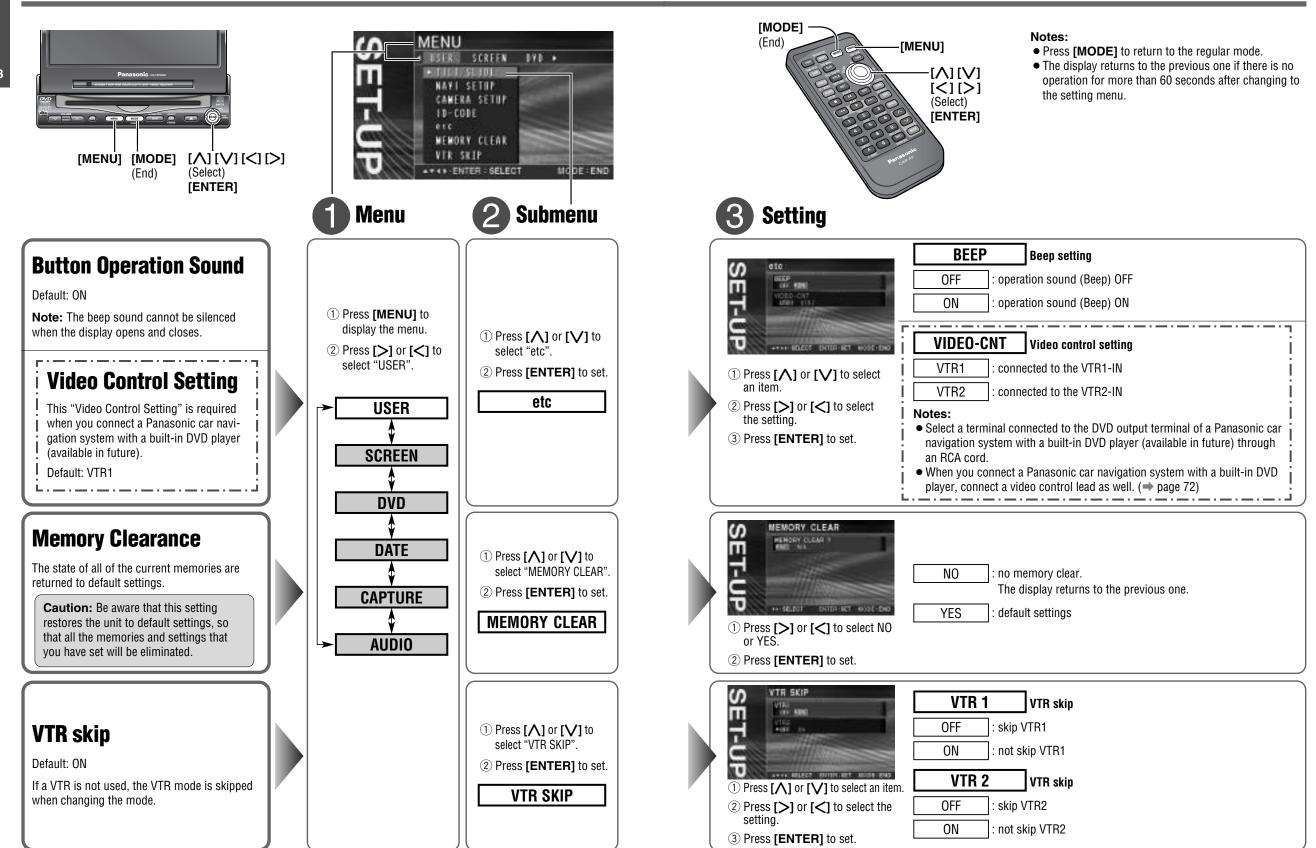
SET-UP: User Settings (continued)



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SET-UP: User Settings (continued)

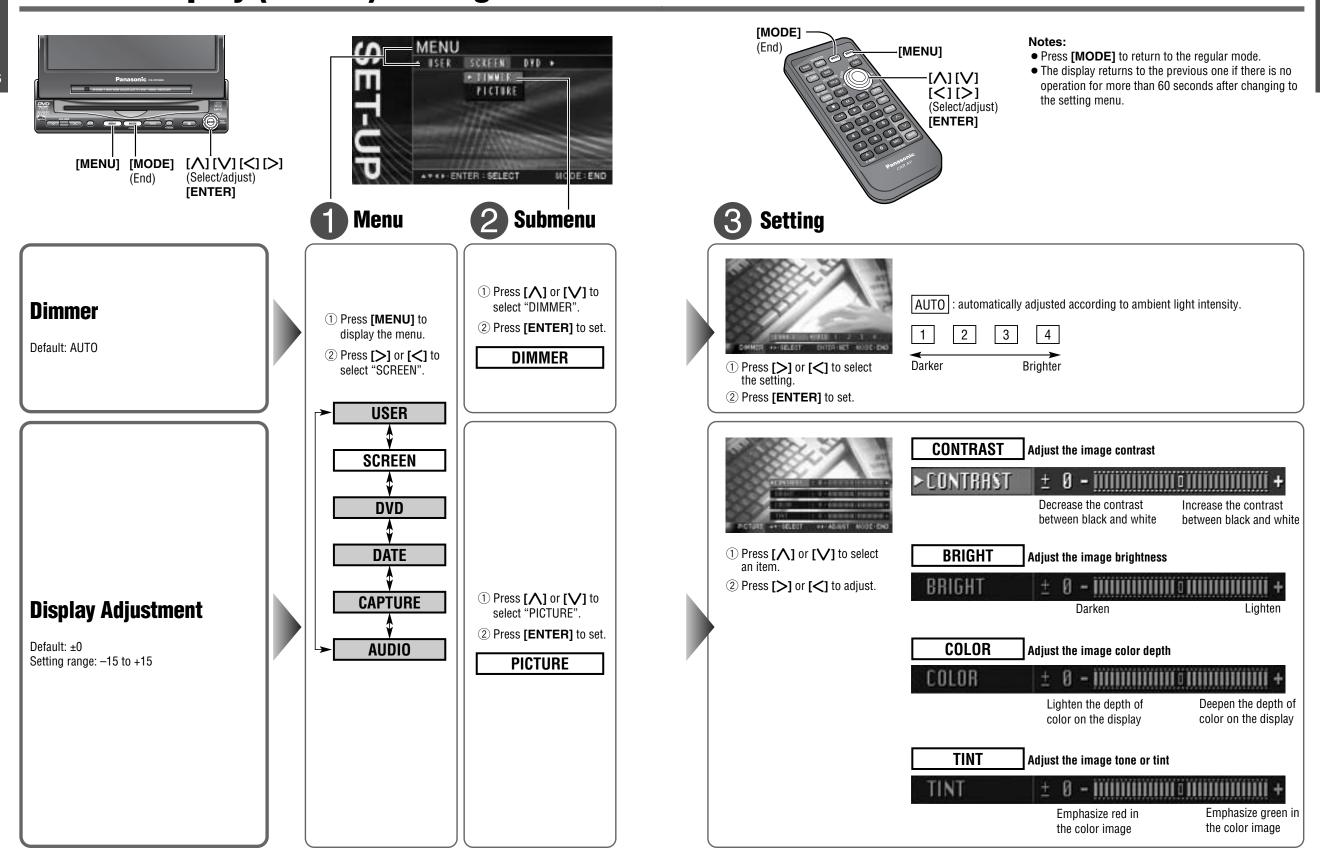


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E N G L I S H

SET-UP: Display (Screen) Settings



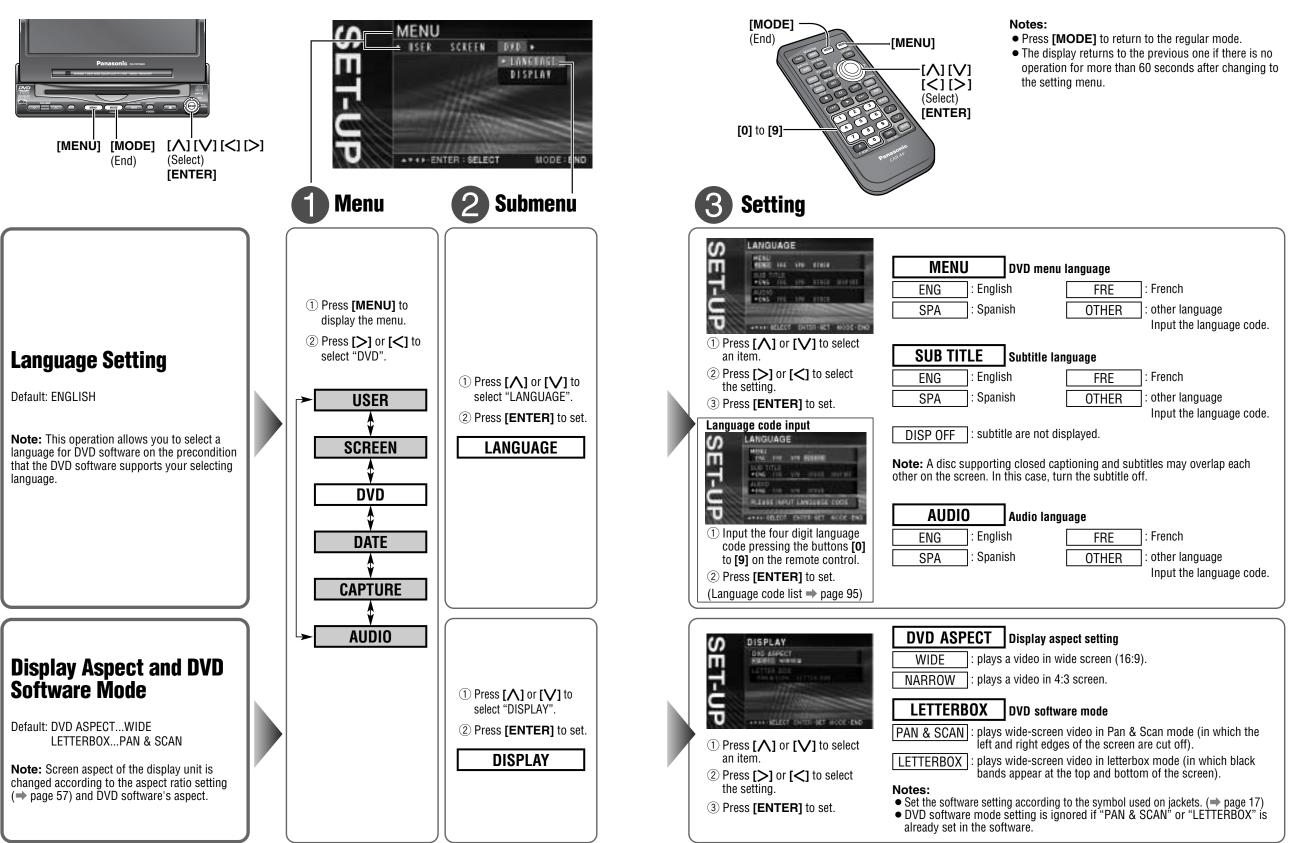


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SET-UP: DVD Settings

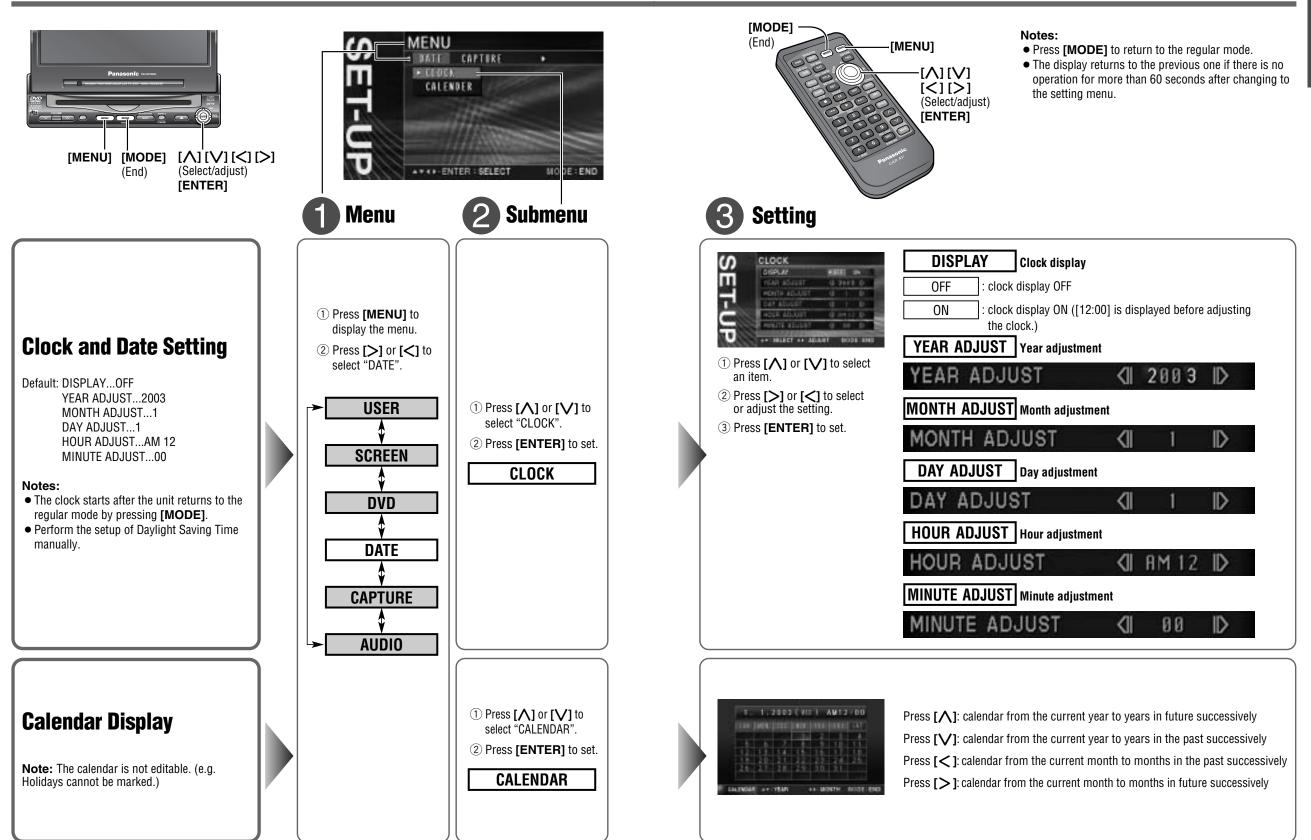


CQ-VD7200U

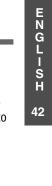
E N G

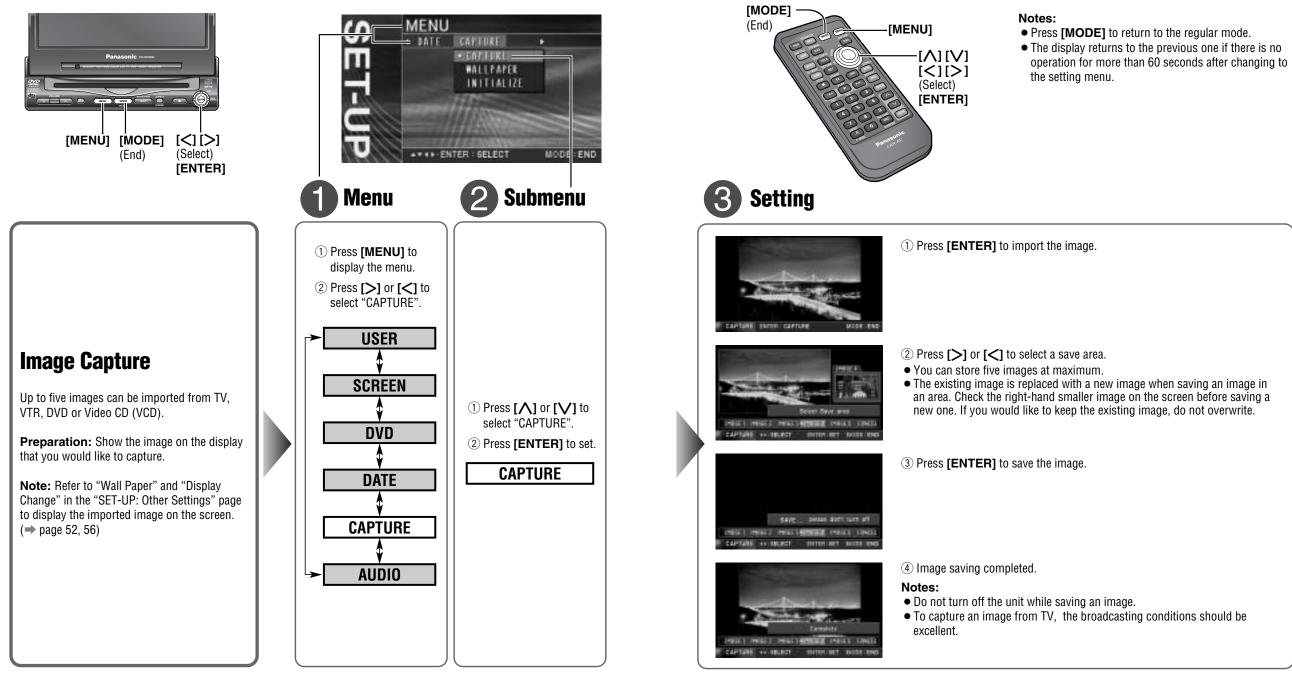
L I S H

SET-UP: Clock/date Settings



SET-UP: Capture Function





Copyright

It is prohibited by copyright laws to copy, distribute and deliver copyrighted materials such as commercial DVDs/Video CDs, other published or broadcast material without the approval of copyright holder except for personal use.

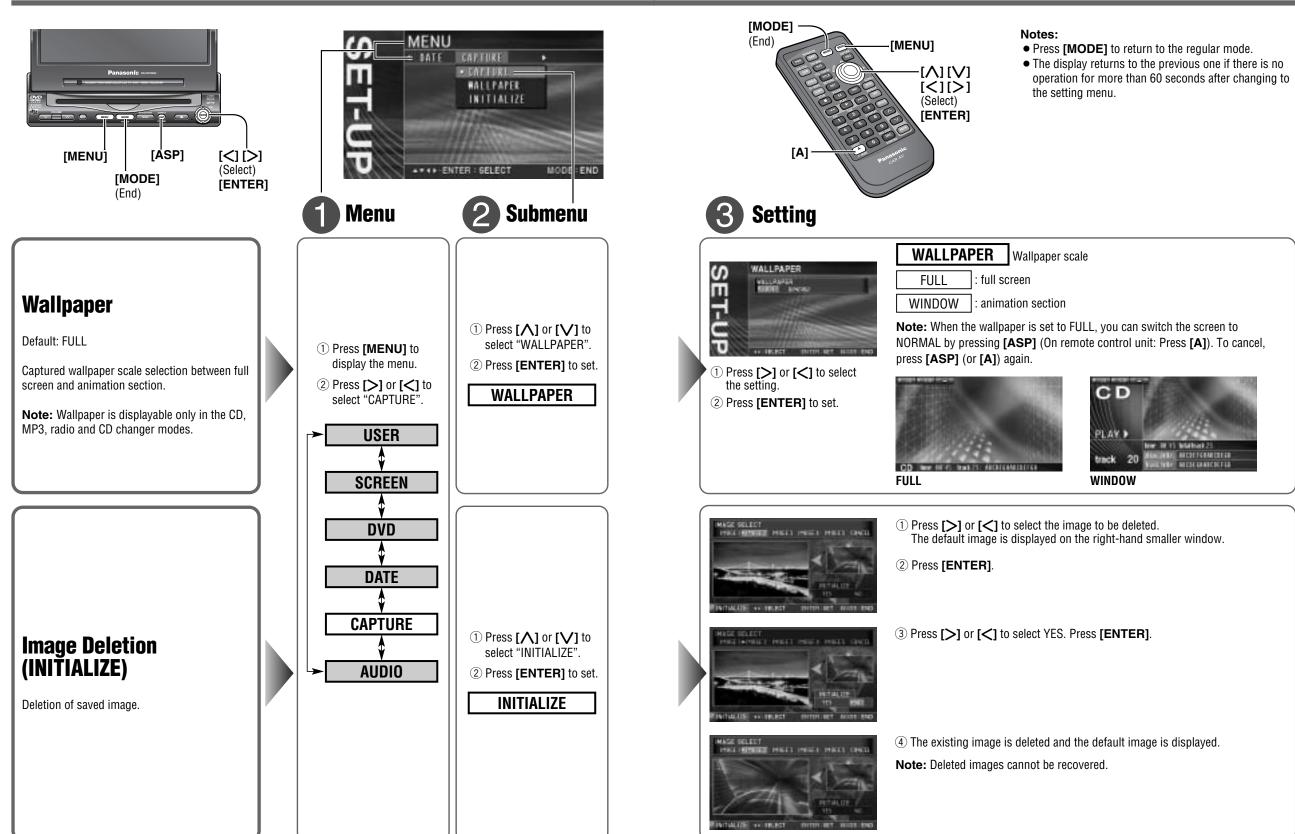
Note: A captured image may have some distortion or be otherwise different from the original image due to compression.



Direct Image Capture (Only for remote control)

If you would like to capture a picture, press and hold **[OSD] (CAPTURE)** for more than 2 seconds. Subsequent steps are the same as the steps (2) described above.

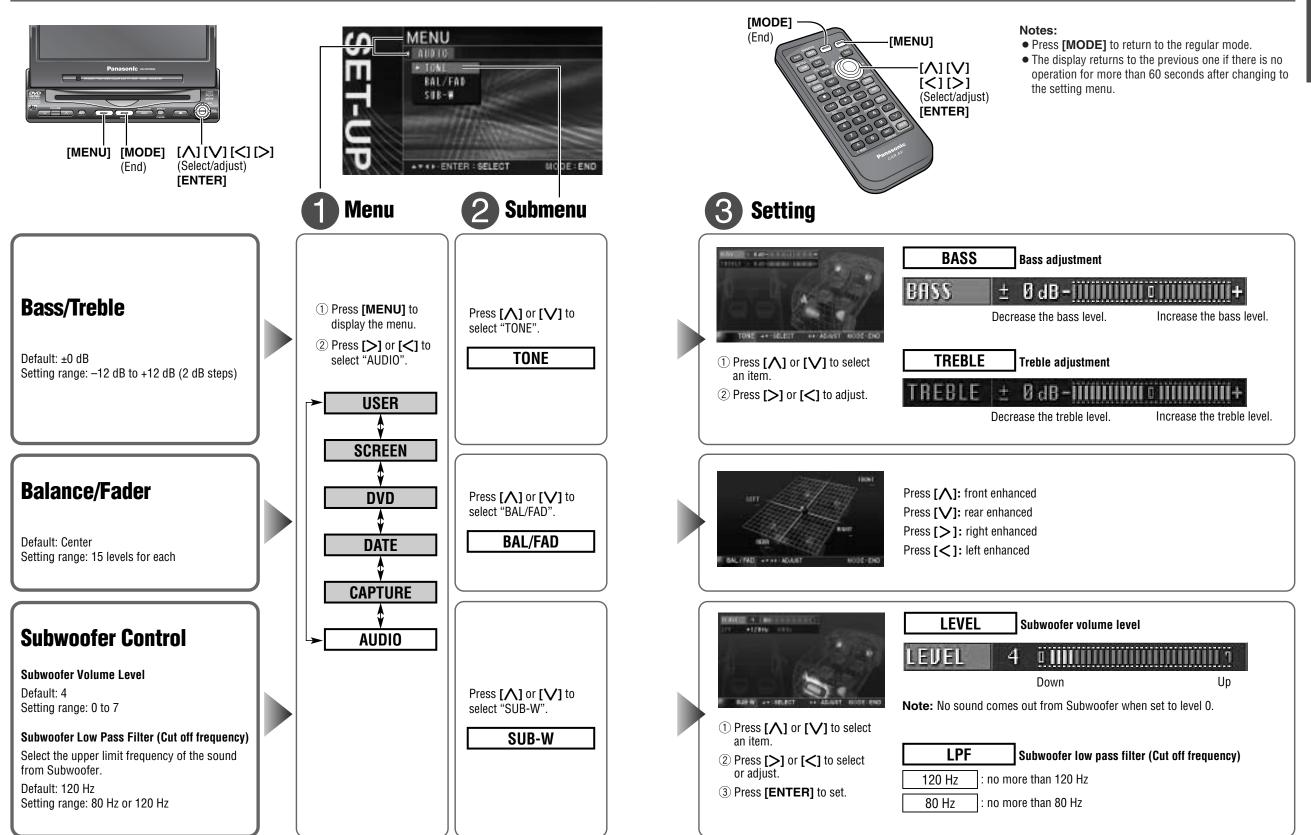
SET-UP: Capture Function (continued)



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SET-UP: Sound Settings



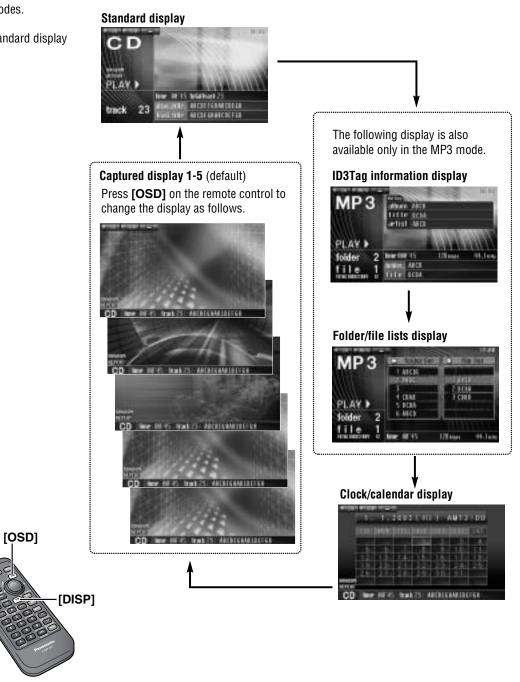
54

SET-UP: Other Settings

Display Change

Display is changeable only in the CD, MP3, radio and CD changer modes.

Default: Standard display



Press [DISP] on the remote control to change the display as follows.

Aspect Ratio Default: NORMAL Press [ASP] (ASPECT) on the display unit or press [A] (ASPECT) on the remote control to change the aspect ratio as follows. Mode: 4 types NORMAL • The conventional display image has a 4 to 3 ratio of horizontal to vertical. • In this case, a blank area remains on the right and left sides of the display. FULL • The screen is extended horizontally as a whole to the aspect ratio of 16 to 9. • The extension ratio is the same at any point of the screen. [ASP] (ASPECT) ZOOM • The screen is fully extended at the normal aspect ratio of 4 to 3. • The top and bottom of the screen are slightly cut. JUST • The screen is extended horizontally to the aspect ratio of 16 to 9. • The extension ratio increases toward the [A] (ASPECT) right and left ends of the screen. Notes: • This adjustment is common to TV, VTR1, VTR2, DVD and video CD mode. • You cannot change the aspect in the menu screen and a screen in the CD, MP3, radio and CD changer mode. These are fixed to "FULL" as well as a Navigation image. • When the rear view camera is in operation with the transmission gear shift in the reverse position, the image is shown on the "FULL" screen only. • In some cases, the picture looks different from the original one due to your selection of aspect.

Cautions:

- This is to remind you that compression or extension of the screen using the aspect ratio (screen mode) changing function of this product for commercial purpose of profit making or viewing/listening by the public could infringe on the rights of the author protected by the copyright law.
- If you expand normal picture (4 to 3) by using "JUST", "ZOOM" or "FULL" aspect to the full of the screen, you might not see the periphery of the picture, or you might see a distorted picture. Therefore, use the "NORMAL" mode to see the original picture as the author intended it.

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SET-UP: Other Settings (continued)

Rear Monitor Set Up You can have different picture and REAR MONITOR 1) Press and hold [MENU] for more than S sound at the front and rear AGAA MONITOR AGUIST 2 seconds. Π monitor at the same time. ᅻ 2 Press [>] or [<] to select the setting. Default: AUTO 3 Press [ENTER] to set. 10 **Preparation:** Connect another Rear monitor setting menu optional rear monitor. (e.g. CY-VMX6800U)(→ page 80) picture and sound come out. These are in the same mode AUTO as the front monitor. ΤV picture and sound in the TV mode always come out. DVD picture and sound in the DVD player mode (disc in the DVD player) always come out. Only sound in the CD, MP3 player mode. [MENU] [MODE] [<] [>] (End) VTR1 picture and sound in the VTR1 mode always come out. [MODE] (End) VTR2 picture and sound in the VTR2 mode always come out. [MENU] Notes: • Press [MODE] to return to the regular mode. • The display returns to the previous one with no operation for 60 seconds after changing to the rear monitor setting menu. • You can mute the sound from the rear speakers connected to this unit, so [<][>]that you can have different sound of modes at the front and rear monitor. (→ See Private Mode on next page) • Picture and sound from the car navigation system connected to an RGB input cord are not available at the rear monitor. Main Unit Monitor ΤV VTR1/VTR2 DVD (VCD, CD, MP3) **CD** Changer Radio CH-C The rear monitor does not display television picture when the main unit is in the radio mode. Different types of discs cannot be played back at the same time. TV VTR1/VTR2 DVD (VCD, CD, MP3) For a CD and MP3, the screen becomes blue. **Rear Monitor**

Private Mode Press and hold [ASP] (P • MODE) on the display unit or [A] (P • MODE) on You can mute the sounds from the rear speakers if necessary. the remote control for more than 2 seconds to activate the private mode func-Activation of the private mode tion or inactivate it in turn. allows you to enjoy the front "P • MODE" indicator lights when monitor and rear monitor (e.g. MP 3 the Private Mode is activated. album (ARC) CY-VMX6800U) independently urtest AUCH with different sources at the same time. PLAY. folder 2 hertill 15 Default: OFF ALC: tile THE R. LEW. Private Mode OFF Private Mode ON [ASP] (P • MODE) Radio Radio חעח [A] (P • MODE) Radio Mute It is recommended to use optional Over-head Monitor (CY-VMX6800U) and headphones supplied to CY-VMX6800U. Note: Be sure to set to OFF when you do not use the private mode.

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MARNING

This installation information is designed for experienced installers and is not intended for non-technical individuals. It does not contain warnings or cautions of potential dangers involved in attempting to install this product.

Any attempt to install this product in a motor car by anyone other than a qualified installer could cause damage to the electrical system and could result in serious personal injury or death.

If your car is equipped with air bag and/or anti-theft systems, specific procedures may be required for connection and disconnection of the battery to install this product.
 Before attempting installation of this electronic component, contact your car dealer or manufacturer to determine the required procedure and strictly follow their instructions.

FAILURE TO FOLLOW THE PROCEDURE MAY RESULT IN THE UNINTENDED DEPLOY-MENT OF AIR BAGS OR ACTIVATION OF THE ANTI-THEFT SYSTEM RESULTING IN DAM-AGE TO THE VEHICLE AND PERSONAL INJURY.

🗆 Overview

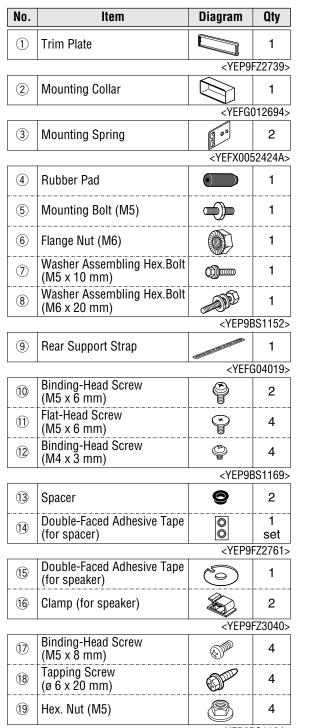
This product should be installed by a professional. However, if you plan to install this product yourself, your first step is to decide where to install it. The instructions in these pages will guide you through the remaining steps: (Please refer to the "WARNING" statement above).

- Identify and label the car wires.
- Connect the car wires to the wires of the power connector.
- Install the unit.
- Check the operation of the unit.

Caution: This unit operates with a 12 volt DC negative ground auto battery system only. Do not attempt to use it in any other system. Doing so could cause serious damage.

Before you begin installation, look for the following items which are packed with your unit.

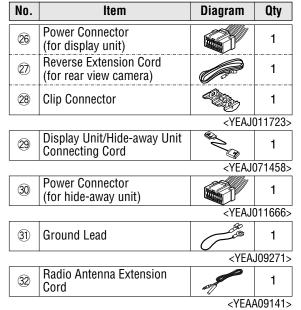
- Warranty Card Fill this out promptly.
- Panasonic Servicenter for Service Directory Keep for future reference in case the product needs servicing.
- Installation Hardware Needed for installation.







Installation Hardware (For Wiring)



- Note:
 The number in parenthesis underneath each accessory part name is the part number for maintenance and service.
- Accessories and their parts numbers are subject to modification without prior notice due to improvements.
- Trim Plate ① and Mounting Collar ② are mounted on the main unit at shipment.

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Installation Guide (continued)

Before Installation

Warning

- Do not install the monitor in a location which obstructs driving, visibility or which is prohibited by applicable laws and regulations. If the monitor is installed in a location which obstructs forward visibility or operation of the air bag or other safety equipment or which interferes with operation of the car, it may cause an accident.
- Never use bolts or nuts from the car's safety devices for installation. If bolts or nuts from the steering wheel, brakes or other safety devices are used for installation of the monitor, it may cause an accident.
- Attach the wires correctly. If the wiring is not correctly performed, it may cause a fire or an accident. In particular, be sure to run and secure the lead wire so that it does not get tangled with a screw or the moving portion of a seat rail.
- Use with 12 volt DC negative ground car. This unit is only for use with a 12 volt DC negative ground car. It cannot be used in large trucks or diesel cars which are 24 volt DC cars. If it is used in the wrong type of car, it may cause a fire or an accident.

Cautions:

- Use the specified fuse. Be sure to always use the specified fuse. If a fuse other than the specified fuse is used, it may cause a fire or an accident.
- Do not damage the cord by pinching or pulling it. Do not pull or damage the cord. If the cord is not treated properly, it will short out or be severed and may cause a fire or an accident.

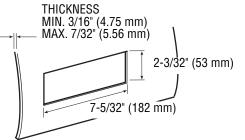
Required Tools

You'll need a screwdriver and the following:





Dashboard Specifications



Identify All Leads

The first step in installation is to identify all the car wires you'll use when hooking up your LCD monitor. As you identify each wire, we suggest that you label it using masking tape and a permanent marker. This will help avoid confusion when making connections later.

Note: Do not connect the power connector to the display unit until you have made all connections. If there are no plastic caps on the hooking wires, insulate all exposed leads with electrical tape until you are ready to use them. Identify the leads in the following order.

Power Lead

If your car has a radio or is pre-wired for one: Cut the connector wires one at a time from the plug (leaving the leads as long as possible) so that you can work with individual leads. Turn the ignition on to the accessory position, and ground one lead of the test bulb to the chassis.



Touch the other lead of the test bulb to each of the exposed wires from the cut radio connector plug. Touch one wire at a time until you find the outlet that causes the test bulb to light.

Now turn the ignition off and then on. If the bulb also turns off and on, that outlet is the car power lead.

If your car is not wired for an audio unit: Go to the fuse block and find the fuse port for radio (RADIO) accessory (ACC) or ignition (IGN).

Battery Lead

If your stereo unit has a yellow lead, you will need to locate the car's battery lead. Otherwise you may ignore this procedure. (The yellow battery lead provides continuous power to maintain a clock or other functions.)

If your car has a radio or is pre-wired for one: With the ignition and headlights off, identify the car battery lead by grounding one lead of the test bulb to the chassis and checking the remaining exposed wires from the cut radio connector plug.

If your car is not wired for an audio unit: Go to the fuse block and find the fuse port for the battery, usually marked BAT.

Speakers (not supplied speaker)

Identify the car speaker leads. There are two leads for each speaker, usually color coded.

A handy way to identify the speaker leads and the speaker they are connected with is to test the leads using a 1.5 V AA battery as follows.

Hold one lead against one pole of the battery and stroke the other lead across the other pole. You will hear a scraping sound in a speaker if you are holding a speaker lead. If not, keep testing different lead combinations until you have located all the speaker leads. When you label them, include the speaker location for each.

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Installation Guide (continued)

Connect All Leads

Now that you have identified all the wires in the car, you're ready to begin connecting them to the LCD monitor wires. The wiring diagram (→ page 72-83) shows the proper wiring and color coding of the leads.

We strongly recommend that you test the unit before making a final installation.

You can set the unit on the floor and make temporary connections to test the unit. Use electrical tape to cover all exposed wires.

Important: Connect the red power lead last, after you have made and insulated all other connections.

Ground

Connect the black ground lead of the power connector to the metal car chassis.

Speakers (not supplied speaker)

Connect the speaker wires. See the wiring diagram for the proper hookups. Follow the diagram carefully to avoid damaging the speakers and the stereo unit.

The speakers used must be able to handle more than 45 W of audio power. If using an optional audio power, the speakers should be able to handle the maximum amplifier output power. Speakers with low input ratings can be damaged. Speaker impedance should measure 4–8 Ω , which is typically marked on most speakers. Lower or higher impedance speakers will affect output and can cause both speaker and stereo unit damage.

Caution: Never ground the speaker cords. For example, do not use a chassis ground system or a threewire speaker common system. Each speaker must be connected separately using parallel insulated wires. If in doubt about how your car's speakers are wired, please consult with your nearest professional installer.

Battery

Connect the yellow battery lead to the correct radio wire or to the battery fuse port on the fuse block.

Equipment

Connect any optional equipment according to the instructions furnished with the equipment. Read the operating and installation instructions of any equipment you will connect to this unit.

Power

Connect the red power lead to the correct car radio wire or to the appropriate fuse port on the fuse block.

If the LCD monitor functions properly with all these connections made, disconnect the wires and proceed to the final installation.

Final Installation

Lead Connections

Connect all wires, making sure that each connection is insulated and secure. Bundle all loose wires and fasten them with tape so they will not fall down later. Now insert the LCD monitor into the mounting collar.

Congratulations! After making a few final checks, you're ready to enjoy your new LCD monitor.

□ Final Checks

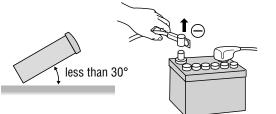
- Make sure that all wires are properly connected and insulated.
- Make sure that the LCD monitor is securely held in the mounting collar.
- 3. Turn on the ignition to check the unit for proper operation.

If you have difficulties, consult your nearest authorized professional installer for assistance.

□ Precautions

Cautions:

- We strongly recommend that you wear gloves for installation work to protect yourself from injuries.
- When bending the mounting tab of the mounting collar with a screwdriver, be careful not to injure your hands and fingers.
- Disconnect the cable from the negative (-) battery terminal (see caution at right).
- Unit should be installed in a horizontal position with the front end up at a convenient angle, but less than 30°.



Caution: Various settings that have been stored in the memory in other on-board equipment (car navigation etc.) may be lost if the battery terminals are disconnected.

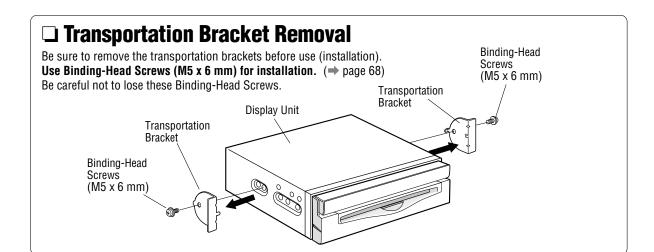
Therefore, we recommend to make a record of or to back up the settings before disconnecting the terminals.

After completing installation of the main unit, set the equipment again according to the record.

This unit should be professionally installed. In case of difficulty, please consult with your nearest professional installer.

- 1. This unit only operates in a 12-volt DC negative ground system.
- Follow the electrical connections carefully (→ page 72-83). Failure to do so may result in damage to the unit.
- 3. Connect the power lead after all other connections are made.
- 4. Be sure to connect the battery lead (yellow) to the positive terminal (+) of the battery or fuse block (BAT) terminal.
- 5. Insulate all exposed wires to prevent short circuiting.
- 6. Secure all loose wires after installing the unit.
- 7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

Caution: Please follow the laws and regulations of your state, province or country for installation of the unit.

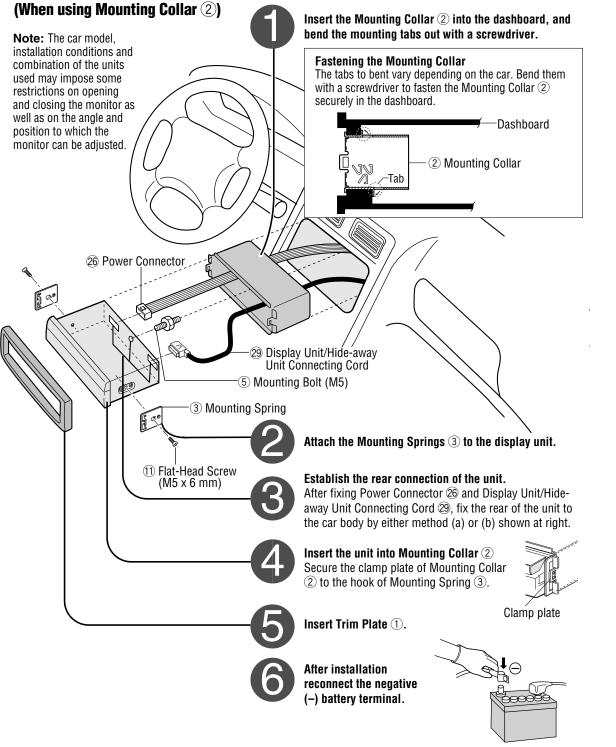


CQ-VD7200U

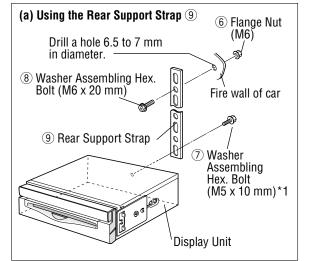
65

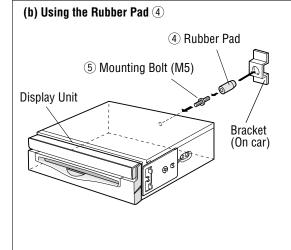
Mounting the Display Unit

□ Installation Procedures

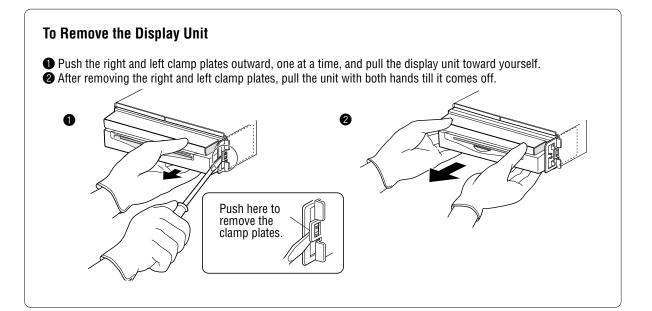


Method for Fixing the Rear of the Unit





*1: Use M5 x 8 mm size bolt (optional) if bolts other than the supplied ones are to be used.



CQ-VD7200U

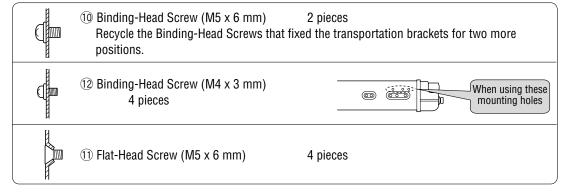
CQ-VD7200U

ENGL-SH

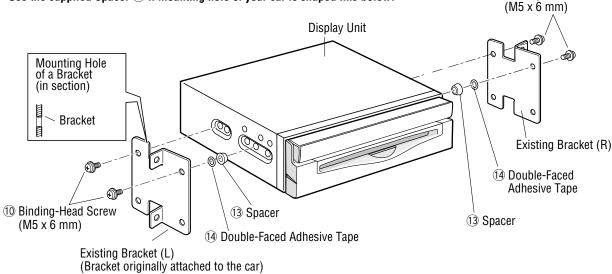
\Box Installation Procedures (When not using Mounting Collar 2)

Use the brackets supplied with your car when mounting this unit. The bracket shape and mounting method vary with car manufacturers, car types and manufacturing year. Please consult your nearest dealer or installer.

Select mounting screws according to the hole positions and hole shape of the bracket.



Use the supplied Spacer ${f I}{f 3}$ if mounting hole of your car is shaped like below.



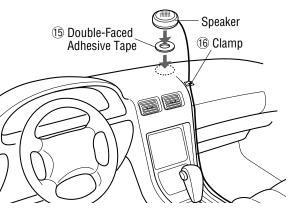
Mounting the Speaker

Before mounting the speaker, wipe water, dust and oil stains off from the place where the speaker should be mounted to enhance adhesive strength.

Cautions:

68

Do not install the speaker in a location which obstructs operation of the air bag or other safety equipment.
Do not leave a credit card or other magnetic cards near the speaker to avoid damaging the cards.



10 Binding-Head Screw

Mounting the Hide-away Unit

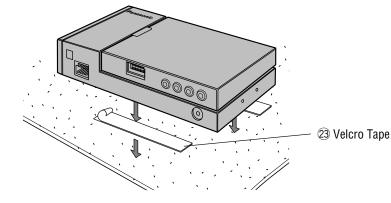
Cautions:

- Never mount the unit in any of the following locations to avoid damage due to overheating; 1. Near the heater port.
- 2. Places like the dashboard or rear deck, where it may be exposed to direct sunlight.
- Do not mount the unit near the door, where it could be exposed to rain.
- Do not separate the hide-away unit.

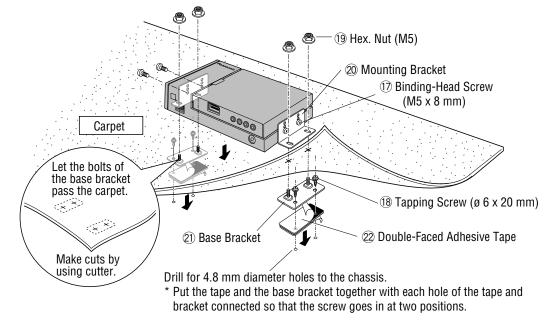
\Box Mount the unit on the car carpet by using Velcro Tape 23.

Attach the seal side of the Velcro Tape 23 to the hide-away unit, then mount the unit on the carpet.

Note: Some carpet materials may not be suitable for this mounting method. In this case, please contact your nearest Panasonic Servicenter for installation.



\Box Unit installation by using the Mounting Brackets 20 and the Base Brackets 21.



Note: Apply an anticorrosive to the holes and tapping screws.

Caution: You run the risk of interfering with the mounting or causing damage by drilling into the gas tank, a wiring harness, or other component.

Installation Guide (continued)

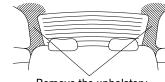
Mounting the TV Antenna

Cautions:

- Be sure to install the TV antenna on the inner side of the rear window.
- Be sure to connect the power lead of the TV antenna to ACC power DC 12 V.
- Keep the antenna away from the external amplifier and the rear speaker cord as much as possible.

Preparations:

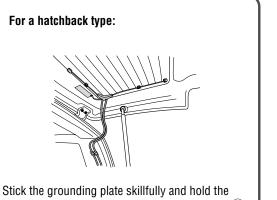
Remove the upholstery at the both sides of the rear window to establish a ground.



Remove the upholstery.

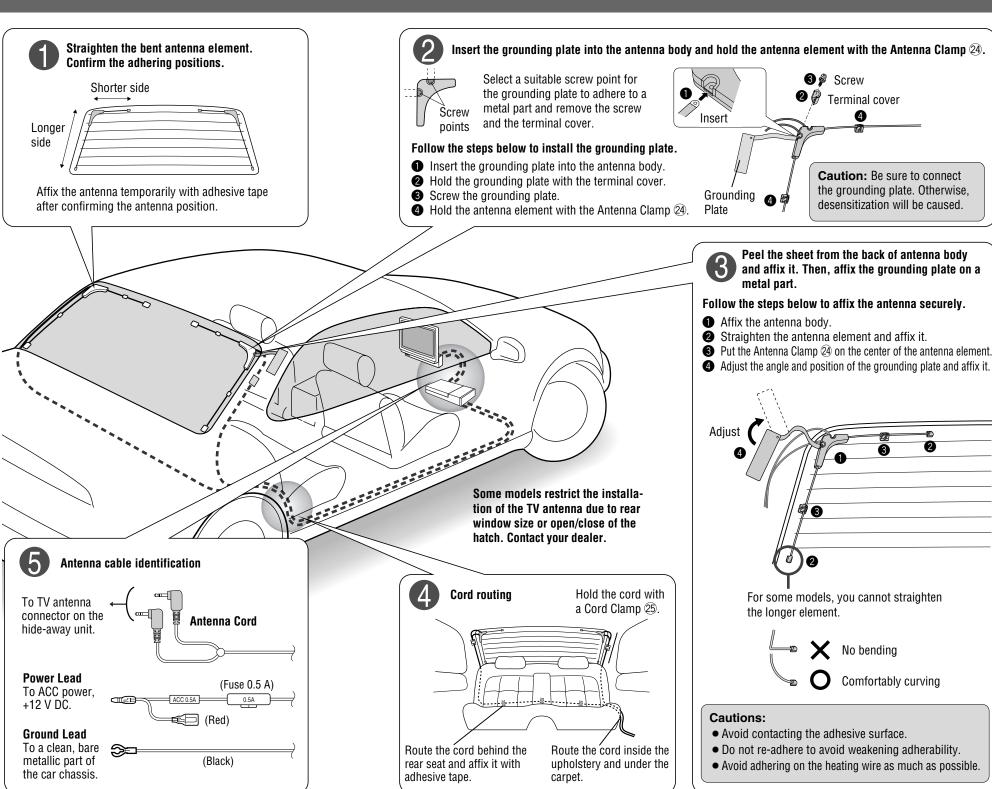
Observe the following to enhance adherability.

- Wipe the inner surface of the rear window with a wet and soft cloth along the heating wire. But do not leave water droplets on the glass.
- When the outside-air temperature is less than 68 °F (20 °C), switch on the rear window defogger or the car heater to warm the surface of the rear window for approx. 5 minutes.

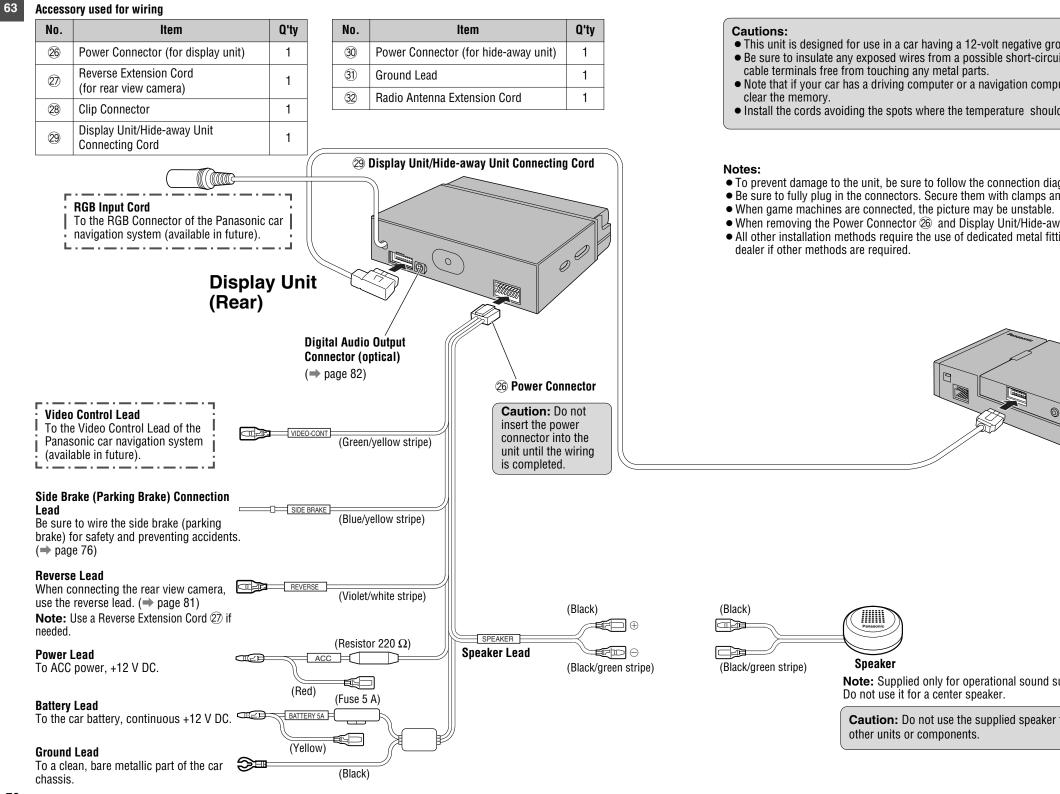


stick the grounding plate skillfully and hold the loose antenna element with the Antenna Clamp (24) so that the element will not become caught in the hatchback door. Adjust the cord length so that the cord does not interfere with the movement of the hatchback door, and secure the cord with Cord Clamp (25).

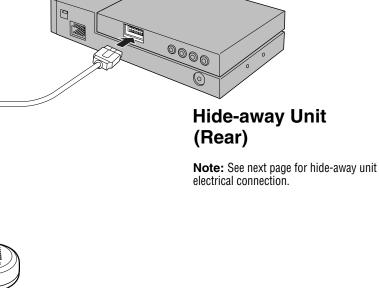
CQ-VD7200U



Electrical Connections



- This unit is designed for use in a car having a 12-volt negative ground battery system.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep
- Note that if your car has a driving computer or a navigation computer, disconnecting the cable from the battery may
- Install the cords avoiding the spots where the temperature should be extremely high.
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Be sure to fully plug in the connectors. Secure them with clamps and tape.
- When removing the Power Connector 26 and Display Unit/Hide-away Unit Connecting Cord 29, be sure to press the clip.
- All other installation methods require the use of dedicated metal fittings. Consult with a gualified servicing engineer or your



Note: Supplied only for operational sound such as a beep.

Caution: Do not use the supplied speaker for some

CQ-VD7200U

CQ-VD7200U

Electrical Connections (continued)

30 Power Connector

(Orange)

(Blue)

TWIN CD+C-CONT

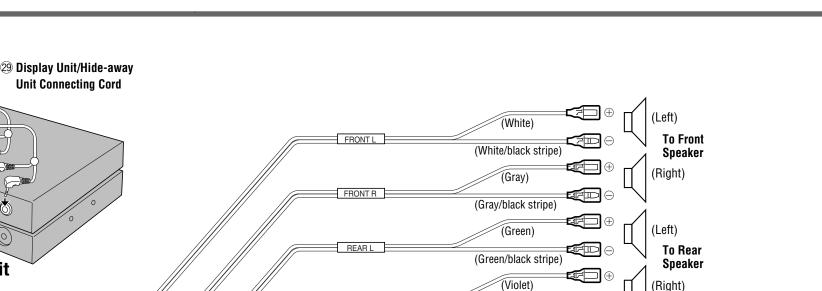
AMP-CONT MAX 0.1A

TV Antenna

(⇒ page 70)

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Navi Mute Lead



(Violet/black stripe)

REAR R

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Pre-Out Connector (Front)

Pre-Out Connector (Rear)

Subwoofer Output Connector (Mono)

Refer to "Mounting the TV Antenna" for TV antenna connection. **Hide-away Unit** (Rear)

Front Speaker Lead (Left)

Front Speaker Lead (Right)

Rear Speaker Lead (Left)

Rear Speaker Lead (Right)

31 Ground Lead To a clean, bare metallic part of the car chassis

Connect to the Navi Mute Lead

Motor Antenna Relay Control Lead

with a switch actuated power antenna.

Note: The power antenna extends automatically

(To motor antenna) (Max. 0.1 A)

when the radio mode is selected.

Dual CD Changer Control Lead

External Amplifier Control

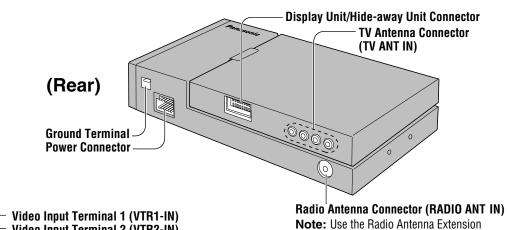
To an external amplifier.

Power Lead

system (available in future).

of the Panasonic car navigation i MAVIMUTE

This lead is not intended for use ANT-CONT MAX 0.1A



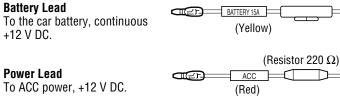
(Front)

CD Changer Control Connector

(CD·C-IN) (→ page 78, 79)

To external amplifier

(Brown/white stripe) Video Input Terminal 2 (VTR2-IN) Connect a VCR, camcorder, rear view camera, other brand's car navigation system, etc. (
page 80-83) Video Output Terminal (VIDEO-OUT) Connect the rear monitor. (\Rightarrow page 80) (Blue/white stripe) (Fuse 15 A)



)))))

Ground Lead

To a clean, bare metallic part of the car chassis.

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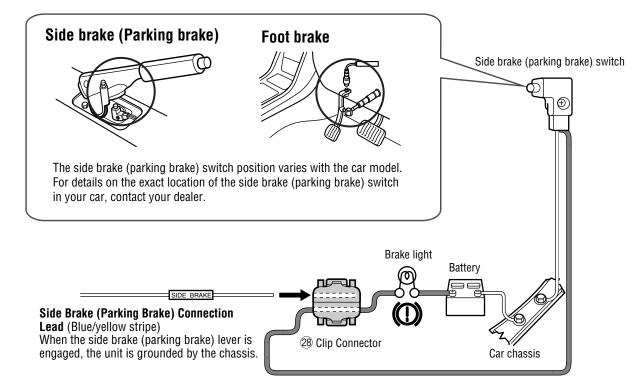
75

Cord 32 if necessary.

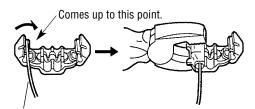
ENGLISH

Connecting the Side Brake (Parking Brake) Connection Lead

Caution: For safety, be sure to ask your nearest professional installer to do this connection.



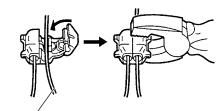
• Attach a Clip Connector ⁽²⁸⁾ to the end of the side brake (parking brake) connection lead.



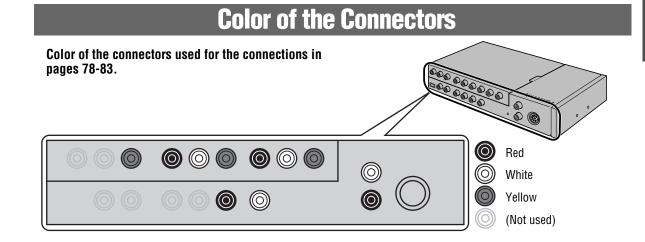
Side Brake (Parking Brake) Connection Lead (Blue/yellow stripe)

CQ-VD7200U

The Clip Connector ⁽²⁸⁾ is connected to the power source side lead of the side brake (parking brake) lever.

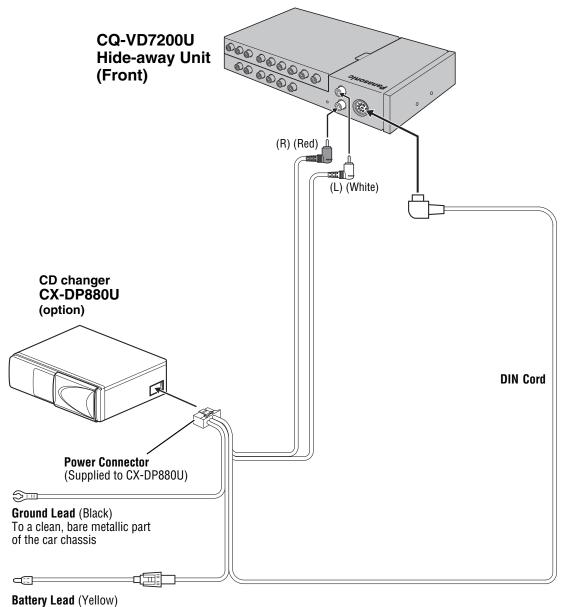


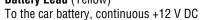
Power source side lead



Connection with CD Changer (CX-DP880U)

Note: Refer to the operating instructions for the connected devices, in addition.

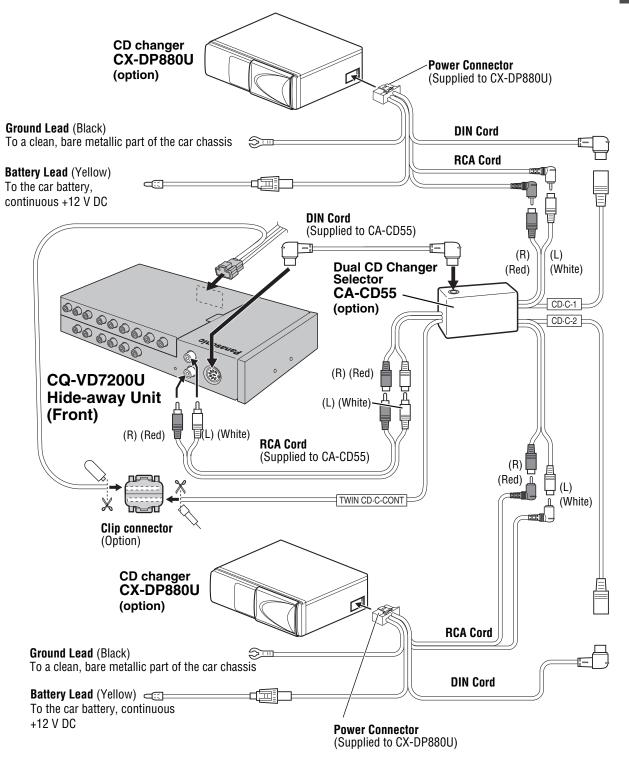




CQ-VD7200U

Connection with Dual CD Changer Selector (CA-CD55)

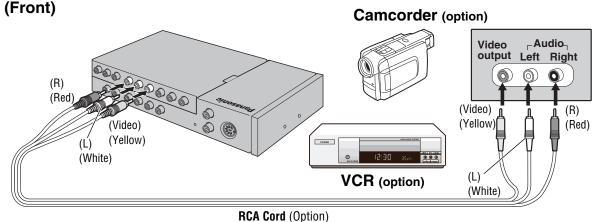
Note: Refer to the operating instructions for the connected devices, in addition.



Connection with VCR or Camcorder

Note: Refer to the operating instructions for the connected devices, in addition,

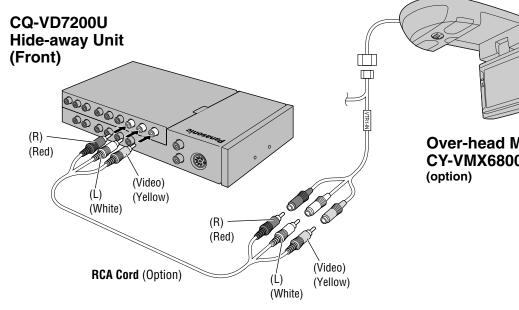
CQ-VD7200U Hide-away Unit

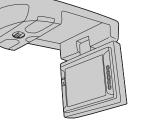


Connection with Rear Monitor

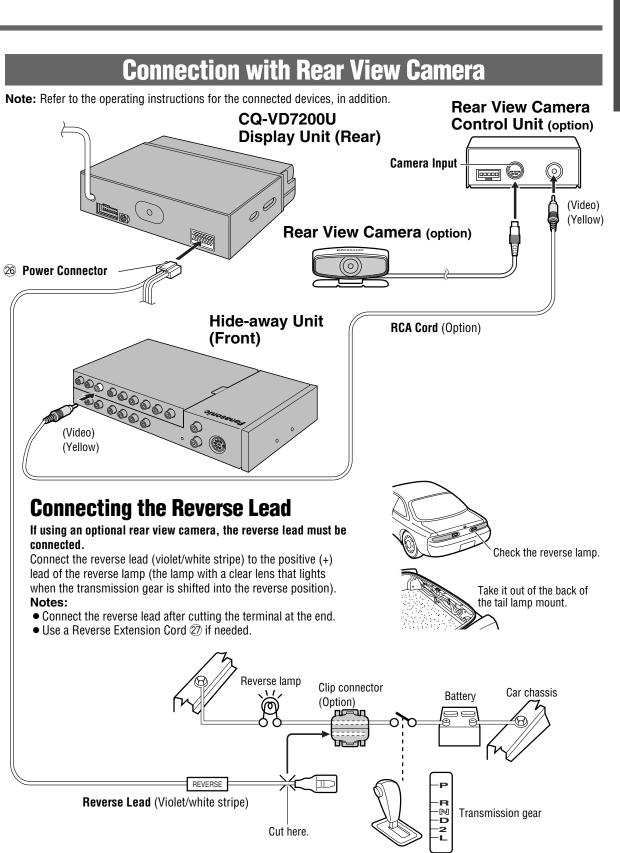
Note: Refer to the operating instructions for the connected devices, in addition.

CQ-VD7200U





Over-head Monitor CY-VMX6800U

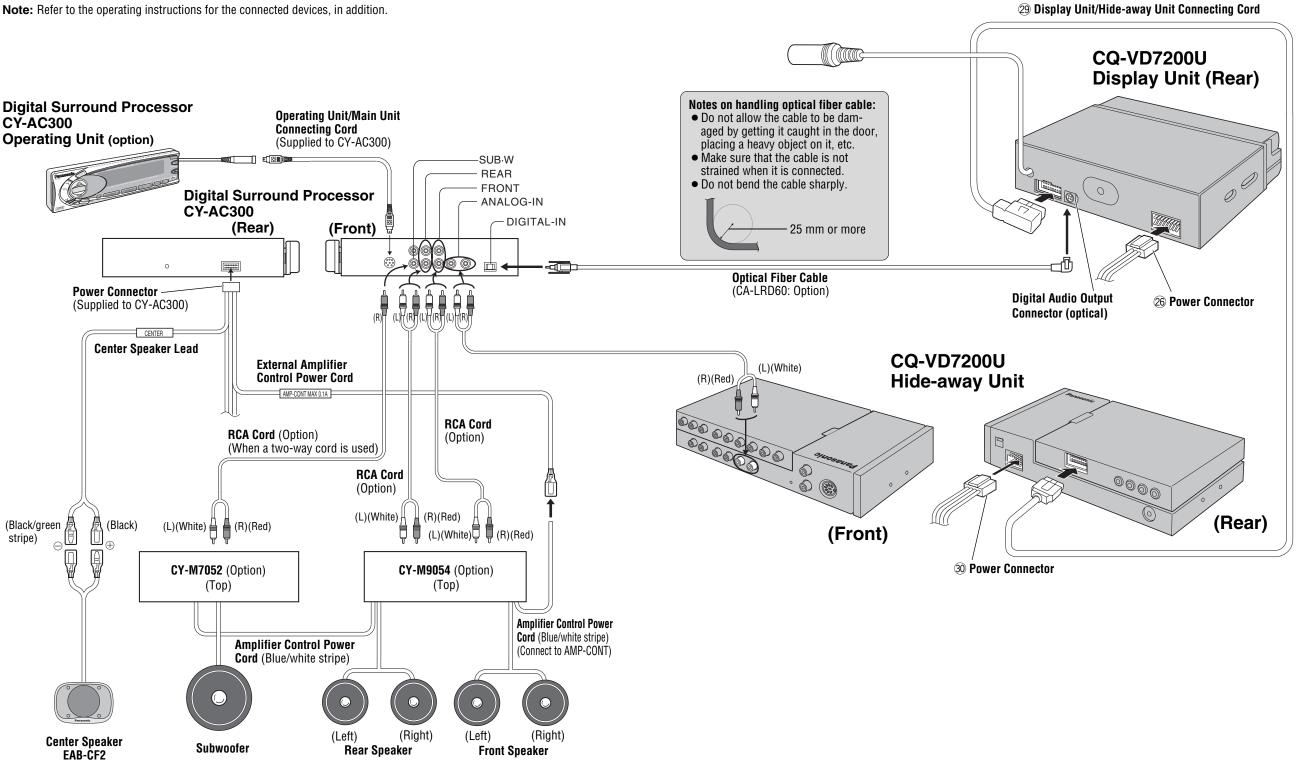


CQ-VD7200U

Electrical Connections (continued)



Connection with Digital Surround Processor (CY-AC300)



CQ-VD7200U

Troubleshooting

Preliminary Steps

Check and take steps as described in the tables below.

If You Suspect Something Wrong

Immediately switch power off.

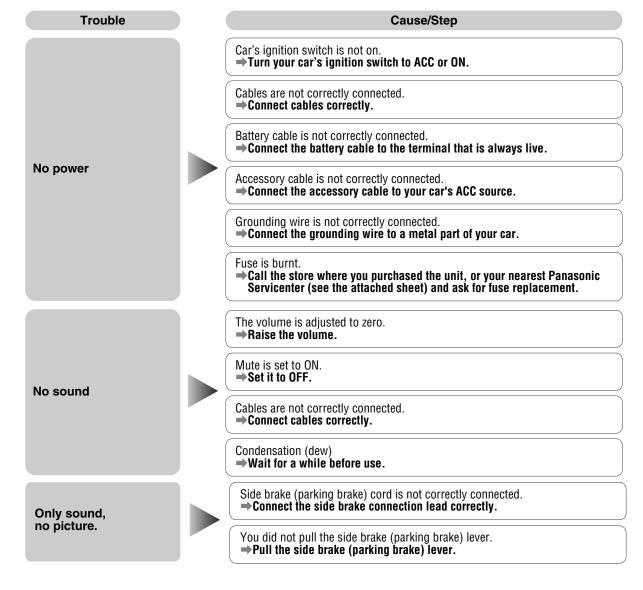
Disconnect the power cable and check that there is neither smoke nor heat from the unit before asking for repairs. Never try to repair the unit yourself because it is dangerous to do so.

Common

Cautions:

Do not use the unit if it malfunctions or if there appears to be something wrong.
Do not use the unit in an irregular condition, for example, no sound, or if it is emit-

ting smoke or foul smell, as this may cause ignition or electric shock. Immediately stop using it and call the store where you purchased it.



Common (Continued) Trouble Cause/Step A mobile phone is used near the unit. →Keep the mobile phone away from the unit. Noise Picture is not clear. The unit's grounding wire is not connected securely. Check the metal areas of the car body (chassis), and connect the arounding wire more securely. Monitor Trouble Cause/Step The tilt angle or the There is an obstacle. front-rear position of Install the unit where the unit moves freely. the display is not adjustable. The monitor direction is not proper. Change the monitor direction to the center. The monitor does not go back into the unit. The monitor stops on the way to the home position. \Rightarrow Raise the monitor a little and press [\clubsuit] (OPEN/CLOSE). Remote Control Trouble Cause/Step Battery Poles (+) (-) are reversed. ⇒Insert the battery correctly. Wrong battery. Check the battery. Buttons are invalid for operation. Battery has run down. ⇒Replace the battery. Remote control is in the wrong direction. Direct the remote control at remote control sensor on the display unit. TV 🔲 Trouble Cause/Step The intensity of the radio wave is too low.

Change the broadcast station.

Unclear image due to noise

Connection or installation of the TV antenna has not been performed correctly. → Check the connection or installation.

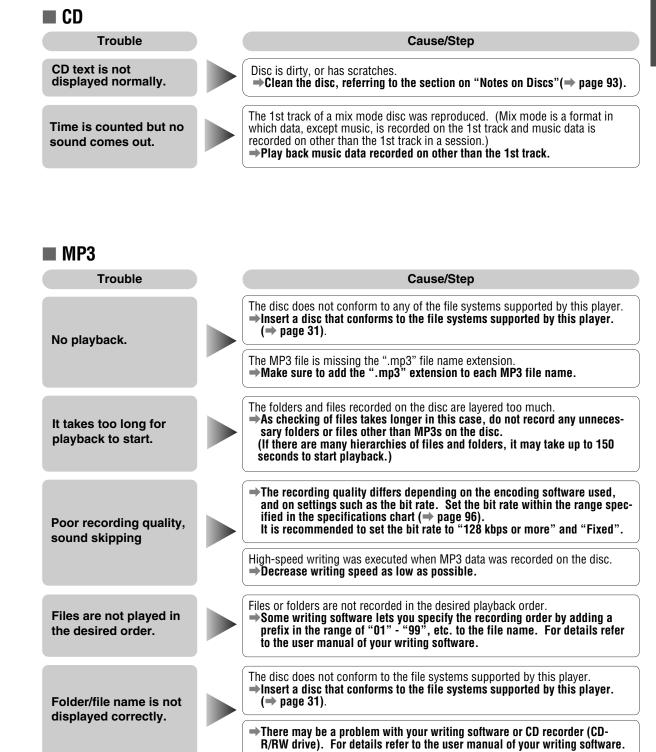
Troubleshooting (continued)

DVD video, Video CD, CD, CD-R, CD-RW

Trouble	Cause/Step
	The disc is upside down. →Place the disc in the correction direction, the label side up.
The disc is inside but no sound. The disc is ejected automatically.	The disc is dirty. →Clean the disc, referring to the section on "Notes on Discs"(→ page 93).
automaticany.	The unit can only play the following types of discs: DVD video, video CD, music CD and MP3.
CD sound skips, tone quality is low.	The disc is dirty. \Rightarrow Clean the disc, referring to the section on "Notes on Discs"(\Rightarrow page 93).
Sound akin due to	Mounting angle is over 30°. →Adjust mounting angle to less than 30°.
Sound skip due to vibration.	Unstable mounting. →Mount the unit securely with the mounting parts, referring to the section o installation.
The buttons do not work.	Some operations are not permitted with certain discs. (Refer to the guide provided with your disc.)
The disc is not ejected.	 Disc is defective. Mechanical trouble. Press [▲]. If failure persists, press the reset switch. If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Servicenter.
DVD video	
Trouble	Cause/Step
	• It is not possible to switch if the disc does not have multiple audio lan-

- It is not possible to switch if the disc does not have multiple audio languages/subtitle languages/angles recorded on it. (Refer to the guide provided with your disc.)
 - Some discs permit switching through a menu screen.
 Sometimes, switching angles is possible only with certain scenes.

If audio or subtitles in the languages are not recorded on the disc, the audio or subtitles do not switch to that language. (Some discs permit switching through a menu screen. Refer to the guide provided with your disc.)



Cannot switch the audio

language selected in the

CQ-VD7200U

language/subtitle

The audio/subtitle

DVD settings is not

used.

language/angle.

CQ-VD7200U

Troubleshooting (continued)

MP3 (Continued)

Trouble

ENGLISH

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File playing time is not displayed correctly.

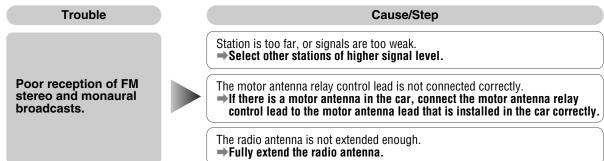
Cause/Step

You turned off the ignition switch of the car during playback. →Playing another file will return the file playing time to normal.

You played a file in which character information had been recorded by use of ID3Tag 2.0 or later version. A file in which character information was recorded by use of ID3Tag 2.0

or later version may not be reproduced normally. For example, the file playing time may not be displayed correctly.

Radio

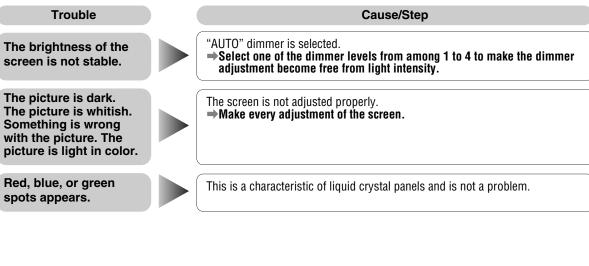


Car Navigation, VCR, Camcorder, Rear View Camera, Rear Monitor

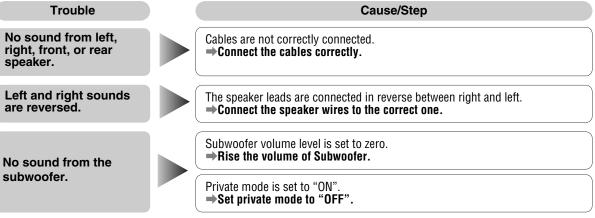
Trouble	Cause/Step
The picture from a car navigation system is not displayed.	The connection of a car navigation system is not correct.) Connect it correctly.) Input setting of a car navigation system is not correct.) Make the input setting correct.)
The picture from a VCR or a camcorder is not displayed.	A VCR or Camcorder is not connected correctly. →Connect a VCR or Camcorder correctly.
The picture from a rear view camera is not dis-	Rear view camera is not connected correctly. Connect a rear view camera correctly.
played.	Input setting of a camera is not correct. Make the input setting correct.
The picture or the sound of the rear monitor is not switchable.	"AUTO" is not selected for the setting of a rear monitor. →Select "AUTO" for the setting.

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Display Settings



Sound Settings



Error Display Messages

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81

CD/MP3/DVD/Video CD/CD Changer

Display	Cause/Step
- E1 -	Disc is dirty, or is upside down. → Check disc.
- E2 -	Disc has scratches. → Check disc.
- E3 -	No operation by some cause. →Press [▲]. If failure persists, press the reset switch. (Press the reset switch in the CD changer). If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Servicenter.
- E4 -	The type of the file that is selected is not supported. → Check disc.
NO DISC	No disc is in the player. →Insert disc into the disc slot.
NO MAGAZINE	No magazine is in the changer. →Load the changer with CD-loaded magazine.
PAL/NTSC ERROR	An attempt was made to play a PAL disc. →Press [▲] and check the disc.
REGION ERROR	An attempt was made to play a disc with a region number other than "1" or "ALL". →Press [▲] and check the disc.

Notes:

- There may be cases when the disc numbers affected by an error are displayed before E1 and E2.
- Displays and the steps to be taken for errors vary in part from changer to changer. For details, refer to the Operating Instructions for the changer used.

Maintenance

Your product is designed and manufactured to ensure a minimum of maintenance. Use a dry soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

Product Servicing

If the suggestions in the charts do not solve the problem, we recommend that you take it to your nearest authorized Panasonic Servicenter. The product should be serviced only by a qualified technician.

Replacing the Fuse

Use fuses of the same specified rating (5 A for display unit, 15 A for hide-away unit). Using different substitutes or fuses with higher rating, or connecting the product directly without a fuse, could cause fire or damage to this unit. If the replacement fuse fails, contact your nearest Panasonic Servicenter for service.

If the Unit Begins to Malfunction...

Reset switch

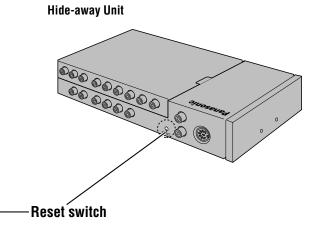
Insert a hard, slender stick into the hole and push the switch.

Important

Push the switch only when the unit fails to operate with any buttons. (Stored settings and adjustments are not cleared.) If the unit fails to return to normal condition, call the nearest Panasonic Servicenter and ask for repairs.

Display Unit





Notes:

- We recommend that you press both of the reset switches on the Display Unit and the Hide-away Unit one by one in any order.
- If the ID-CODE has been already set, you will be asked to enter the ID-CODE right after the unit is restarted.

Maintenance

To Prevent Damage to the System Exterior

Do not apply pesticides, benzine, thinner or other volatile substances to the unit. The cabinet surface primarily consists of plastic materials.

Do not wipe with benzine, thinner or similar substances because this will result in discoloration or removal of the paint.

When a cloth with a cleansing chemical is used, follow the caution points. Do not leave the unit in contact with rubber or vinyl products for long periods of time.

Do not use cleaners which have polishing granules because this could damage the surface of the unit.



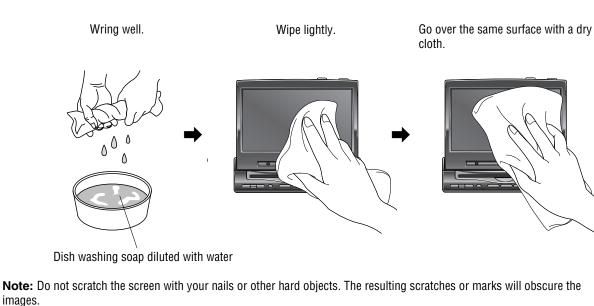
Clean Dirt by Wiping Lightly with a Soft Cloth

When the unit is dirty, wipe the surface of the display using the Wiping Cloth (supplied).

Without a Wiping Cloth

When the unit is dirty, wipe with a well-wrung cloth dipped in liquid dish washing detergent (neutral) diluted with water and then go over the same surface with a dry cloth.

(Since there is the possibility of water drops getting inside of the unit, do not directly apply cleanser to the surface.)



Caution: If water drops or similar wet substances get inside the monitor, it may cause a malfunction.

How to hold the disc

- Do not touch the underside of the disc.
- Do not scratch the disc.
- Do not bend disc.
- When not in use, keep disc in the case.

Do not use irregularly shaped discs.

Do not leave discs in the following places:

- Direct sunlight
- Near car heaters
- \bullet Dirty, dusty and damp areas
- On seats and dashboards

Disc cleaning Use a dry, soft cloth to wipe from the center outward.

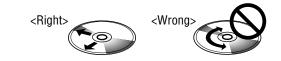
Do not attach any seals or labels to your discs.

Do not write on the disc label in a heavy pen or ballpoint pen.





Do not use irregularly shaped discs



Notes on CD-Rs/RWs

Notes on Discs

- You may have trouble playing back some CD-R/RW discs recorded on CD recorders (CD-R/RW drives), either due to their recording characteristics or dirt, fingerprints, scratches, etc. on the disc surface.
- CD-R/RW discs are less resistant to high temperatures and high humidity than ordinary music CDs. Leaving them inside a car for extended periods may damage and make playback impossible.
- The unit may not successfully play back a CD-R/RW that was made by the combination of writing software, a CD recorder (CD-R/RW drive) and a disc if they are incompatible with one another.
- This player cannot play CD-R/RW discs if the session is not closed.
- This player cannot play CD-R/RW discs which contain other than CD-DA or MP3 data.
- Be sure to observe the handling instructions of CD-R/RW discs.

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Definition of Terms

S Digital audio output connector (Optical)

The digital audio output connector (optical) converts electrical signals into optical signals and transfers them to the amplifier. Consequently, it has a number of features including its immunity from electrical interference from external sources and its ability to prevent the generation of noise and its minimal effect on the external environment.

Dolby Digital

This fully discrete format divides the music signals into 5.1 channels: Front Left (L), Front Right (R), Center (C), Left Surround (LS), Right Surround (RS) and Subwoofer (SW: 0.1 channel) for recording and playback. The number of channels that are recorded depends on the software. (1 to 5.1 channels)

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Dolby Pro Logic

This format records signals from four channels [Front Left (L), Front Right (R), Center (C), and Monaural Surround (S)] in two channels, decodes those channels through a Dolby Pro Logic decoder, and then outputs the resulting signals in four channels.

dts

This format requires more data than Dolby Digital, and provides higher quality surround playback. Similar to Dolby Digital, this fully discrete format divides the music signals into 5.1 channels: Front Left (L), Front Right (R), Center (C), Left Surround (LS), Right Surround (RS) and Subwoofer (SW: 0.1 channel) for recording and playback.

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Interactive DVD

An interactive DVD is DVD software which includes multiple angles, multiple plot endings, etc.

Letterbox screen

This refers to a screen on which the playback picture of wide-screen DVDs or Video CDs appears with black bands running along the top and bottom.

LPCM (Linear PCM audio)

In this format, the audio signal is converted to digital data and recorded in two channels without compression. Because the capacity of a DVD video disc is large, it can store more data with better accuracy than a CD.

Pan & Scan screen

This refers to a screen on which the playback picture of wide-screen DVDs or Video CDs is cut off at the left and right sides.

Playback control (Video CD)

If the Video CD has "With Playback Control" or others written on the disc surface or on the jacket, the scenes or information to be viewed (or listened to) can be selected interactively with the screen by looking at the menu shown on the screen.

In these instructions, playback using the menu screen is referred to as the "menu play" for video CDs. This player supports Video CDs with playback control.

Title, Chapter (DVD)

DVDs are divided into some large sections (titles) or some small sections (chapters). Each section is numbered; these numbers are called "Title number" or "Chapter number".

Title 1			Title 2	
Chapter 1 Chapter 2			Chapter 1	·

Track (Video CD/CD)

Video CDs or CDs are divided into some sections (tracks). Each section is numbered; these numbers are called "Track number".

Track 1 Track 2	Track 3	Track ·····
-----------------	---------	-------------

Language Code List

How to input the language code, refer to page 46.

Code	Language Name	
6565	Afar	7
6566	Abkhazian	7
6570	Afrikaans	7
6577	Ameharic	7
6582	Arabic	7
6583	Assamese	7
6588	Aymara	7
6590	Azerbaijani	7
6665	Bashkir	7
6669	Byelorussian	7
6671	Bulgarian	7
6672	Bihari	7
6678	Bengali; Bangla	7
6679	Tibetan	7
6682	Breton	7
6765	Catalan	7
6779	Corsican	7
6783	Czech	7
6789	Welsh	7
6865	Danish	7
6869	German	7
6890	Bhutani	7
6976	Greek	7
6978	English	7
6979	Esperanto	7
6983	Spanish	7
6984	Estonian	7
6985	Basque	7
7065	Persian	7
7073	Finnish	7
7074	Fiji	7
7079	Faroese	7
7082	French	7
7089	Frisian	7
7165	Irish	7
7168	Scots Gaelic	7
7176	Galician	7
7178	Guarani	7
7185	Gujarati	8
7265	Hausa	8
7273	Hindi	8
7282	Croatian	8
7285	Hungarian	

- J	
Code	Language Name
7289	Armenian
7365	Interlingua
7378	Indonesian
7383	Icelandic
7384	Italian
7387	Hebrew
7465	Japanese
7473	Yiddish
7487	Javanese
7565	Georgian
7575	Kazakh
7576	Greenlandic
7577	Cambodian
7578	Kannada
7579	Korean
7583	Kashmiri
7585	Kurdish
7589	Kirghiz
7665	Latin
7678	Lingala
7679	Laothian
7684	Lithuanian
7686	Latvian, Lettish
7771	Malagasy
7773	Maori
7775	Macedonian
7776	Malayalam
7778	Mongolian
7779	Moldavian
7782	Marathi
7783	Malay
7784	Maltese
7789	Burmese
7865	Nauru
7869	Nepali
7876	Dutch
7879	Norwegian
7982	Oriya
8065	Panjabi
8076	Polish
8083	Pashto, Pushto
8084	Portuguese
8185	Quechua

Code	Language Name
8277	Rhaeto-Romance
8279	Romanian
8285	Russian
8365	Sanskrit
8368	Sindhi
8372	Serbo-Croatian
8373	Singhalese
8375	Slovak
8376	Slovenian
8377	Samoan
8378	Shona
8379	Somali
8381	Albanian
8382	Serbian
8385	Sundanese
8386	Swedish
8387	Swahili
8465	Tamil
8469	Telugu
8471	Tajik
8472	Thai
8473	Tigrinya
8475	Turkmen
8476	Tagalog
8479	Tonga
8482	Turkish
8484	Tatar
8487	Twi
8575	Ukrainian
8582	Urdu
8590	Uzbek
8673	Vietnamese
8679	Volapük
8779	Wolof
8872	Xhosa
8979	Yoruba
9072	Chinese
9085	Zulu

CQ-VD7200U

Specifications

Display Unit

General

ENGLISH

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Power supply Current consumption Maximum power output (external speaker) Compatible speaker impedance Dimensions (W x H x D) Weight

: 12 V DC (11 V - 16 V), test voltage 14.4 V, negative ground : Less than 1.5 A : 0.7 W : 8Ω : 7" x 1-15/16" x 6-5/16" (178 x 50 x 160 mm) : 5 lbs. 1 oz. (2.3 kg)

Monitor

Liquid crystal panel	: 7" wide
Screen dimensions (W x H x D)	: 6-1/16" x 3-7/16" x 6-15/16" (154 x 87 x 177 mm)
Number of pixels	: 336,960 pixels (234 vertical x 480 horizontal x 3)
Valid pixel ratio	: Over 99.99%
Display method	: Transparent color filter format
Drive method	: TFT (Thin Film Transistor) active matrix format
Light source	: Internal light (Built-in small fluorescent lamp)
-	

: 8Ω

Supplied speaker

Impedance Maximum power input : 2 W

Digital audio output

Disc	Sound recording format	Optical digital audio output from connector
DVD	Dolby Digital	Dolby Digital bitstream (1 – 5.1 ch)
	DTS*	DTS bitstream (1 – 5.1 ch) (The analog portion is not output.)
	Linear PCM (48 kHz 16/20/24 bit)	Linear PCM (2 ch) (48 kHz sampling/16 bit only)
Video CD	MPEG 1	MPEG 1 bitstream
	Linear PCM	Linear PCM (2 ch) (44.1 kHz sampling/16 bit)
CD	Linear PCM	Linear PCM (2 ch) (44.1 kHz sampling/16 bit)
	DTS*	DTS bitstream (1 – 5.1 ch) (The analog portion is not output.)
MP3	МРЗ	Linear PCM (2 ch) (32 kHz/44.1 kHz/48 kHz sampling/16 bit)
*DTC only works	with optical outputs	

DTS only works with optical outputs.

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

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Hide-away Unit

General Power

Power supply	: 12 V DC (11 V - 16 V), test voltage 14.4 V, negative ground
Current consumption	: Less than 10 A (during disc playback)
Maximum power output	: 45 W x 4 ch (at 16 V)
Compatible speaker impedance	: 4Ω
Video input signal	: Composite video signal, 1.0 Vp-p (75 Ω)
Audio input sensitivity	: 2 Vrms
Video output signal	: Composite video signal, 1.0 Vp-p (75 Ω)
Pre-Amp output voltage	: 4 Vrms
Pre-Amp output impedance	: Less than 60 Ω
Dimensions (W x H x D)	: 9-5/8" x 1-5/8" x 5-7/8" (245 x 42 x 150 mm)
Weight	: 3 lbs. 16 oz. (1.8 kg)

: 87.9 - 107.9 MHz

: 35 dB (1 kHz)

: 530 - 1 710 kHz

: 28 dB/µV

: 50 dB

: 12 dBf

: 70 dB

FM stereo radio

Frequency range Usable sensitivity Stereo separation S/N ratio

AM stereo radio

Frequency range Usable sensitivity Image rejection ratio

Video section

Signal format Video output Region number : NTSC (Standard signal format in U.S and Japan) : 75 Ω, 1 Vp-p : 1 and ALL

Audio section Output voltage/Impedance

Output voltage/Impedance Distortion	: 4 Vrms/220 Ω
Front L/R (1 kHz, 0 dB, PCM input)	: 0.04 %
S/N ratio	: 90 dB (during CD playback and connected with optical fiber cable)

Above specifications comply with EIA standards.

Note: Specifications and the design are subject to modification without notice due to improvements in technology.