

# Panasonic®

DVD Player/receiver  
DVD-плеер/ресивер  
DVD 플레이어/리시버



Model: **CQ-DX200W**



MP3



- Please read these instructions carefully before using this product and keep this manual for future reference.
- Перед началом эксплуатации просим прочитать настоящую инструкцию внимательно и хранить ее на пользование на будущее.
- 본 제품의 바른 사용을 위해, 이 사용설명서를 잘 읽어 주십시오.  
잘 보관하시어 필요하실 때마다 읽어주시기 바랍니다.

# Safety Information

- Read the operating instructions for the unit and all other components of your car audio system carefully before using the system. They contain instructions about how to use the system in a safe and effective manner. Panasonic assumes no responsibility for any problems resulting from failure to observe the instructions given in this manual.

- This manual uses pictographs to show you how to use the product safely and to alert you to potential dangers resulting from improper connections and operations. The meanings of the pictographs are explained below. It is important that you fully understand the meanings of the pictographs in order to use this manual and the system properly.



This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in severe injury or death.



This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in injury or material damage.

## Warning

Observe the following warnings when using this unit.

- The driver should neither watch the display nor operate the system while driving.**  
Watching the display or operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before watching the display or operating the system.
- Use the proper power supply.**  
This product is designed for operation with a negative grounded 12 V DC battery system. Never operate this product with other battery systems, especially a 24 V DC battery system.
- Keep batteries and insulation film out of reach of infants.**  
Batteries and insulation film can be ingested, so keep them out of the reach of infants. If an infant ingests a battery or insulation film, please seek immediate medical attention.
- Protect the Deck Mechanism.**  
Do not insert any foreign objects into the slot of this unit.
- Do not disassemble or modify the unit.**  
Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer or an authorized Panasonic Service Center.
- Do not use the unit when it is out of order.**  
If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealer.
- The remote control unit should not lie about in the car.**  
If the remote control unit lies about, it could fall on the floor while driving, get wedged under the brake pedal, and lead to a traffic accident.
- Refer fuse replacement to qualified service personnel.**  
When the fuse blows out, eliminate the cause and have it replaced with the fuse prescribed for this unit by a qualified service engineer. Incorrect replacement of the fuse may lead to smoke, fire, and damage to the product.

Observe the following warnings when installing.

- Disconnect the lead from the negative (–) battery terminal before installation.**  
Wiring and installation with the negative (–) battery terminal connected may cause electrical shock and injury due to a short circuit.  
Some cars equipped with the electrical safety system have specific procedures of battery terminal disconnection.  
**FAILURE TO FOLLOW THE PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.**
- Never use safety-related components for installation, grounding, and other such functions.**  
Do not use safety-related vehicle components (fuel tank, brake, suspension, steering wheel, pedals, airbag, etc.) for wiring or fixing the product or its accessories.
- Installing the product on the air bag cover or in a location where it interferes with airbag operation is prohibited.**
- Check for piping, gasoline tank, electric wiring, and other items before installing the product.**  
If you need to open a hole in the vehicle chassis to attach or wire the product, first check where the wire harness, gasoline tank, and electric wiring are located. Then open the hole from outside if possible.
- Never install the product in a location where it interferes with your field of vision.**
- Never have the power cord branched to supply other equipment with power.**
- After installation and wiring, you should check the normal operation of other electrical equipment.**  
The continuation of their using in abnormal conditions may cause fire, electrical shock or a traffic accident.
- In the case of installation to an airbag equipped car, confirm warnings and cautions of the vehicle manufacturer before installation.**
- Make sure the leads do not interfere with driving or getting in and out of the vehicle.**
- Insulate all exposed wires to prevent short circuiting.**

## Caution

### Observe the following cautions when using this unit.

- ❑ **Keep the sound volume at an appropriate level.**  
Keep the volume level low enough to be aware of road and traffic conditions while driving.
- ❑ **This unit is designed for use exclusively in automobiles.**
- ❑ **Do not operate the unit for a prolonged period with the engine turned off.**  
Operating the audio system for a long period of time with the engine turned off will drain the battery.
- ❑ **Do not expose the unit to direct sunlight or excessive heat.**  
Otherwise these will raise the interior temperature of the unit, and it may lead to smoke, fire, or other damage to the unit.
- ❑ **Do not use the product where it is exposed to water, moisture, or dust.**  
Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.
- ❑ **Set the volume level to low enough before the AUX connection is completed.**  
Failure to observe this, the loud noise may come out and damage your speakers and your hearing. Direct connection of the speaker/headphone output of an external device without any attenuator may distort sound or damage the connected external device.

### Observe the following cautions when installing.

- ❑ **Refer wiring and installation to qualified service personnel.**  
Installation of this unit requires special skills and experience. For maximum safety, have it installed by your dealer. Panasonic is not liable for any problems resulting from your own installation of the unit.
- ❑ **Follow the instructions to install and wire the product.**  
Not following the instructions to properly install and wire the product could cause an accident or fire.
- ❑ **Take care not to damage the leads.**  
When wiring, take care not to damage the leads. Prevent them from getting caught in the vehicle chassis, screws, and moving parts such as seat rails. Do not scratch, pull, bend or twist the leads. Do not run them near heat sources or place heavy objects on them. If leads must be run over sharp metal edges, protect the leads by winding them with vinyl tape or similar protection.
- ❑ **Use the designated parts and tools for installation.**  
Use the supplied or designated parts and appropriate tools to install the product. The use of parts other than those supplied or designated may result in internal damage to the unit. Faulty installation may lead to an accident, a malfunction or fire.

- ❑ **Do not block the air vent or the cooling plate of the unit.**

Blocking these parts will cause the interior of the unit to overheat and will result in fire or other damage.

- ❑ **Do not install the product where it is exposed to strong vibrations or is unstable.**  
Avoid slanted or strongly curved surfaces for installation. If the installation is not stable, the unit may fall down while driving and this can lead to an accident or injury.
- ❑ **Installation Angle**  
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.
- ❑ **Wear gloves for safety. Make sure that wiring is completed before installation.**
- ❑ **To prevent damage to the unit, do not connect the power connector until the whole wiring is completed.**
- ❑ **Do not connect more than one speaker to one set of speaker leads. (except for connecting to a tweeter)**

### Observe the following cautions when handling the battery for the remote control unit.

- Use only specified battery (CR2025).
- Match the polarity of the battery with the (+) and (-) marks in the battery case.
- Replace dead battery as soon as possible.
- Remove the battery from the remote control unit when not using it for an extended period of time.
- Insulate the battery (by placing them in a plastic bag or covering them with vinyl tape) before disposal or storage.
- Dispose of the battery according to the local regulations.
- Do not disassemble, recharge, heat or short the battery. Do not throw a battery into a fire or water.

### In case of battery leakage

- Thoroughly wipe the battery liquid off the battery case and insert new battery.
- If any part of your body or clothing comes into contact with battery liquid, wash it with plenty of water.
- If battery liquid comes into contact with your eyes, wash them with plenty of water and get immediate medical attention.

### Observe the following cautions when using USB devices.

- Do not connect a USB device directly to this unit. If a device is connected directly to this unit and an accident occurs, or if the brakes are applied suddenly, the driver or passenger may bump into the USB device and may be injured.
- Connect your USB device to your car audio using a standard USB extension cable (5 m or less).
- Position the USB device and USB extension cable so that they do not interfere with your driving.
- Do not connect any USB device other than a USB memory or a USB audio player. Do not connect multiple USB devices to the USB connector. Supplying power to multiple USB devices from the connector could cause overheating and smoking.

## Warning

**For your safety, this system is designed not to see the moving picture while you are driving.**

**When connecting this unit to the front monitor (on-dash/in-dash):**

- Park your car in a safe place and activate the parking brake before seeing the moving picture.
- For your safety, you must ensure that the connection of the parking brake lead is correct. (➔ Installation Instructions)

Warning

When driving please enjoy sound only.

## Caution

**THIS PRODUCT IS A CLASS I LASER PRODUCT.  
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE  
OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN  
MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.  
DO NOT OPEN COVERS AND DO NOT REPAIR BY  
YOURSELF. REFER SERVICING TO QUALIFIED  
PERSONNEL.**

# Before Reading These Instructions

Panasonic welcomes you to our constantly growing family of electronic products owners.

We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

## Differences between 2 Models

- This operating instruction manual is for 2 models CQ-DX200W3 and CQ-DX200W5. The following table describes the differences between 2 models.

Features	Models	CQ-DX200W3	CQ-DX200W5
Region number		3, ALL	5, ALL
TV type (default)		NTSC	PAL



# Before Reading These Instructions (continued)

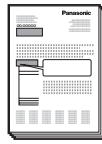
## Accessories



### Operating Instructions

(YFM264C048CA)

**Q'ty: 1**



### Installation Instructions

(YFM294C120CA)

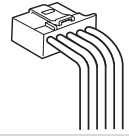
**Q'ty: 1**



### Remote Control Unit (including a battery) (CR2025)

(YEFX999263A)

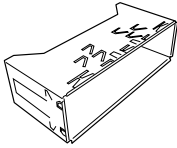
**Q'ty: 1**



### Power Connector

(YAJ024C126CA)

**Q'ty: 1**



### Mounting Collar

(FX0214C384ZB)

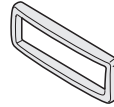
**Q'ty: 1**



### Conversion Cable for AV1 IN

(YEAERA33000K)

**Q'ty: 1**



### Trim Plate

(YFC054C095CA)

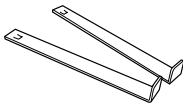
**Q'ty: 1**



### Removable Face Plate Case

(YGFA134302)

**Q'ty: 1**



### Lock Cancel Plate



### Mounting Bolt (5 mm)



### Rubber Bushing



### Clip Connector

(ZZBISDX200W)

**Q'ty: 1 set**

### Notes:

- The number in parentheses 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.
- Mounting Collar and Trim Plate are mounted on the main unit at shipment.

# Features

## Playback of a video file

Connection of the optional monitor (CY-VM7203W) allows users to enjoy DivX files recorded on CD-Rs/RWs and DVD-Rs/RWs as well as DVD videos and video CDs.

## Playback of a compressed music file

MP3/DivX files recorded on CD-Rs/RWs and DVD-Rs/RWs can be enjoyed. Up to 1200 tracks of MP3/DivX files can be saved on 1 piece of DVD-R/RW.

## Front AV IN terminal

Your mobile audio player and other devices are connectable to this unit without any difficulty.

## Expansion Module (hub unit)

Connection of the Expansion Module (hub unit, CY-EM100N) allows users to connect up to 4 optional devices shown below.

**Note:** A hub unit is not required to connect only one optional component.

## Wide array of components for system upgrade

Various optional components allow users to obtain availability of wide range of system upgrade. Upgrading the system delivers relaxed AV space in a car.

- **DVD Changer**

The optional adapter (Conversion Cable for DVD/CD Changer: CA-CC30N) allows users to connect the optional Panasonic DVD changer unit (CX-DH801W).

- **CD Changer**

The optional adapter (Conversion Cable for DVD/CD Changer: CA-CC30N) allows users to connect the optional Panasonic CD changer unit (CX-DP880).

- **iPod®**

The optional adapter (Direct Cable for iPod: CA-DC300N) allows users to connect the optional iPod series.  
iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

## Sound Control

### SQ (Sound Quality)

You have six preset modes (FLAT, ROCK, POP, VOCAL, JAZZ and CLUB). You can customize your settings for these and save them for instant recall.

### SQ3 (3-Band Sound Quality)

The centre frequency and level are adjustable in each of 3 bands.

This adjustability allows users to fine-tune sound quality for each genre to suit car-interior acoustics and personal preferences.

## USB Connector

The USB connector is equipped on the front panel. Connection of a USB memory (not included) to the USB connector via a USB extension cable (USB 2.0, not included) allows users to enjoy MP3/WMA files stored on the USB memory (not included) in the car.

### Compatible USB devices

- **USB Mass Storage Class**

For details as to whether your USB memory/USB Audio is compatible with USB Mass Storage Class, please contact the USB memory/USB Audio manufacturer.

- **USB Standard Compatibility 1.1/2.0 Full Speed**

- **File System FAT12/16/32**

- **Maximum current less than 500 mA**









- **Capacity less than 4 GB (1 partition)**

### Notes:

- The use of USB devices that contain data files other than MP3/WMA format is not recommended.
- Audio playback may not be possible with some types of USB device connected.
- Playback or display may not be possible depending on the type of USB device or the condition of the recording.

# Discs that can be Played Back

## Disc Type

DISC	DVD	VCD (Video CD)	CD	CD-R/RW
Mark/logo	 	  (IEC62107)	 	 
Disc Size	12 cm			
Video Format	NTSC / PAL			
Audio Format	LPCM, MPEG1, MPEG2, Dolby Digital	LPCM (CD-DA <sup>*1</sup> ), MPEG1, MPEG2 (SVCD)	LPCM (CD-DA <sup>*1</sup> ), MP3	
Region No.	3, 5, ALL <sup>*2</sup>			

<sup>\*1</sup>CD-DA : A general music CD format.

### Notes:

- Only discs with logos shown in the “Mark/logo” row of the table above are playable.
- About CD-Rs and CD-RWs, refer to “Notes on CD-Rs/RWs, DVD-Rs/RWs”. (⇒ Page 47)
- Some copy-protected music CDs are not playable.
- Even if you play a dts DVD or a dts CD, analog sound cannot be reproduced. (Only digital output comes out)

## Notes on DVD-Rs/RWs (DVD Video)

- Do not mix DVD-Video formatted data and other formatted data on the same disc.
- **Discs in the video recording (VR) format are unplayable.**
- **Unfinalized discs are unplayable.**
- Use disc-at-once recording for DVD-R DL (double-layer).
- Some discs are unplayable depending on the disc itself, device, drive and software that are used for disc recording.

## Discs not supported

The following discs are not played back on this product.




- DVD-Audio
- DVD-ROM
- DVD-RAM
- DVD+R
- DVD+RW
- VSD
- CVD
- CD-G
- CD-ROM (except MP3/DivX)
- CD-RW (except MP3/DivX and CD-DA)
- CD-R (except MP3/DivX and CD-DA)
- SACD
- Photo CD
- CDV
- Hybrid SACD (except CD-DA)
- CD-EXTRA (audio-only playback possible)
- DVDs with a region number other than “3”, “5” or “ALL”<sup>\*2</sup>
- **Playing back a photo CD disc with this unit could damage the data that is recorded on the disc.**

## About DivX

- DivX files recorded on CD-Rs/RWs and DVD-Rs/RWs are playable. Refer to “Notes on MP3/DivX” for further information. (⇒ Page 24)



## Symbols used on jackets

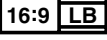
(Examples of such symbols include)

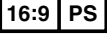
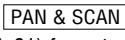
-  : Number of subtitle languages
-  : Number of audio tracks
-  : Number of angles

The numbers indicate the number of languages, tracks, angles, etc., recorded on the disc.

### Screen size (H:V aspect ratio)

-  : 4:3 standard size
-  : Letterbox (⇒ Page 37, 61)
- 16:9 wide size

 : Playback in letterbox format on a standard screen (4:3).

 : Playback in  (pan and scan) (⇒ Page 37, 61) format on a standard screen (4:3).

**Note:** The size of the image that is displayed on the screen depends on the screen mode (“TV Display” ⇒ Page 37), and on the screen size for the content on the disc.

## 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 does not play the disc.

**\*2**The Region number for this product is “3” (for CQ-DX200W3), “5” (for CQ-DX200W5) or “ALL”.

Example:



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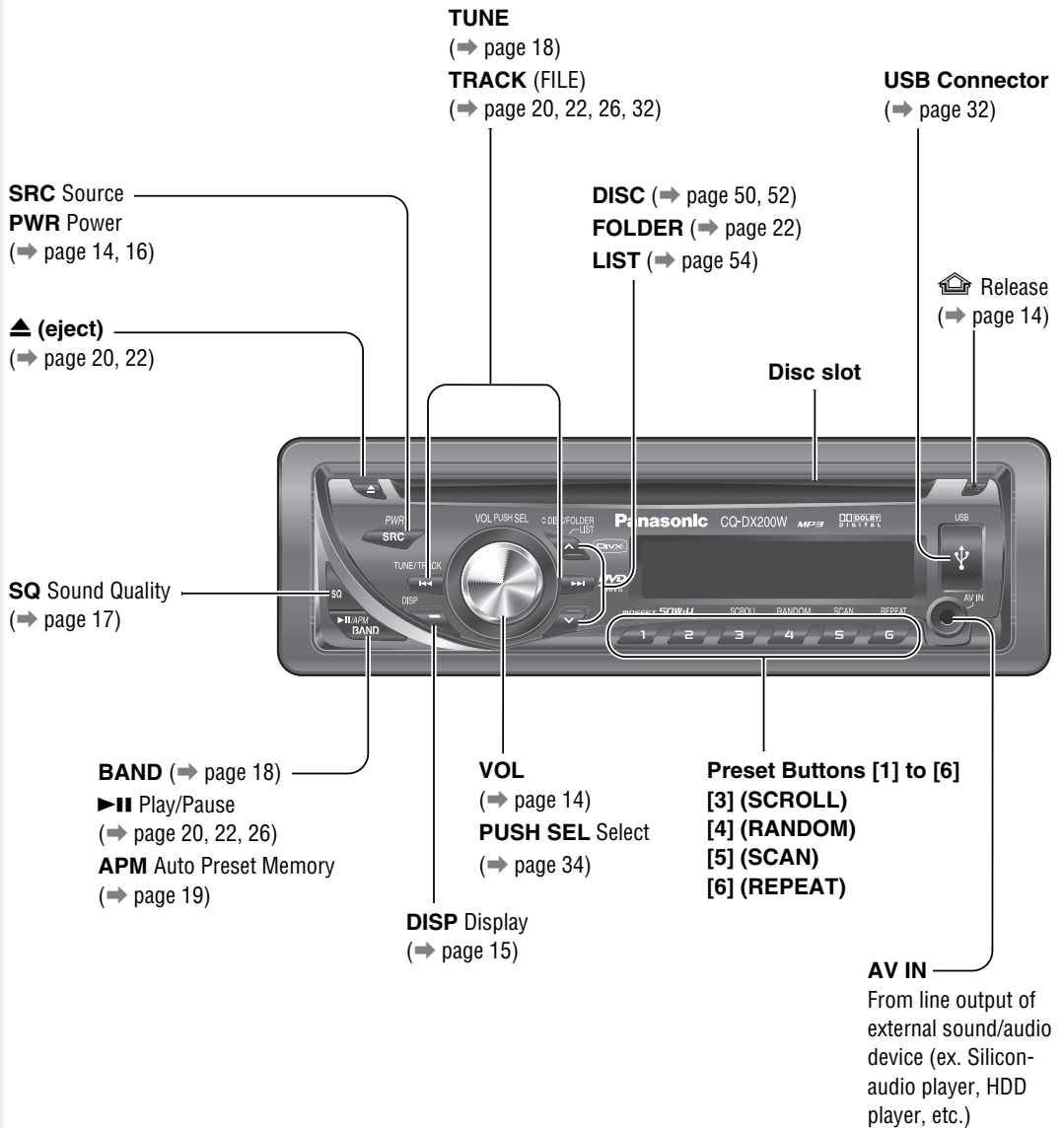
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# Controls Layout

**Note:** These operating instructions manual explains operations for use with the buttons on the main unit. (Different operations excluded)

**Main Unit**



In these instructions, the pictographs shown below are used to indicate compatible types of discs and operating units.

- Discs**
- : DVD Video    : VCD (Video CD)
  - : CD            : CD-Rs/RWs or DVD-Rs/RWs containing MP3 files
  - : CD-Rs/RWs or DVD-Rs/RWs containing DivX files

## General

### [SRC]

- Toggles power on/off.
- Selects a source.

### [^][v]

- Selects (vertically) or adjusts an operation or item.

### [<][>]

- Selects (horizontally) or adjusts an operation or item.

### [ENTER]

- Determines an operation or item.



### [MUTE]

- Mutes the sound temporarily.

### [VOL]

- Adjusts the sound volume.

### [MENU]

- Shows the menu screen.

### [OSD] (On-Screen Display)

- Displays information about each source on the screen.

## Discs (DVD/VCD/CD/MP3/DivX)

### [0] to [9] DVD VCD

- Selects an item on the menu.

### [0] to [9] DVD VCD CD MP3 DivX

- Selects a title/chapter directly.
- Selects a track directly.
- Selects a folder/file directly.

### [0] to [9] DVD

- Sets the language code.

### [1] (SUBTITLE) DVD DivX

- Switches the subtitle language.

### [2] (AUDIO) DVD DivX

- Switches the audio language.

### [2] (AUDIO) VCD

- Switches between stereo and monaural sound.

### [3] (ANGLE) DVD

- Switches the angle.

### [4] (RANDOM) CD MP3 DivX

- Plays randomly.

### [5] (SCAN) CD

- Scans and plays.

### [6] (REPEAT) DVD VCD CD MP3 DivX

- Palys repeatedly.

### [0] (DRC) DVD

- Selects a range of dynamic range compression.

### [■] (STOP)

DVD VCD CD MP3 DivX

- Stops playback.

### [▶▶] (PLAY/PAUSE)

DVD VCD CD MP3 DivX

- Plays.
- Pauses.

### [◀◀] [▶▶]

DVD VCD CD MP3 DivX

- Goes to the beginning.
- Selects a chapter/track/file.
- Performs fast forward/fast reverse.

### [▶▶] DVD VCD

- Palys slowly.

### [MENU] (TITLE) DVD

- Displays the DVD menu. (Operations vary according to the disc.)
- Displays the Title menu. (Operations vary according to the disc.)

### [^][v][<][>] DVD

- Selects an operation or item.

### [ENTER] DVD VCD CD MP3 DivX

- Determines an operation or item.

### [^][v] MP3 DivX

- Selects a folder.
- Performs folder up/down.

### [RETURN] DVD VCD CD MP3 DivX

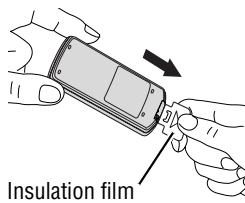
- Returns to the previous display.
- Perform number input again.
- Displays the video CD's menu.

### [GRP] (Group) (TRACK) (TITLE/CHAPTER) DVD VCD CD MP3 DivX

- Selects a title/chapter directly.
- Selects a track directly.
- Selects a folder/file directly.

## Preparation Before Initial Use

Pull the insulation film out from the backside of remote control gently.



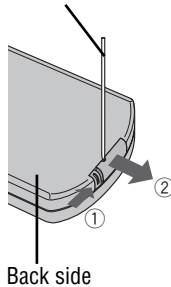
## Battery Replacement

❶ Remove the battery holder from the remote control unit placed on a flat surface.

❶ Stick your thumbnail into the groove, and push the holder in the direction of the arrow.

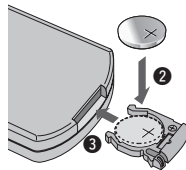
❷ Pull it out in the direction of the arrow using a tough pointed object.

Tough pointed object



❷ Put a battery in the case with (+) side facing up.

❸ Put the case back.



## Warning

Keep batteries and insulation film out of reach of infants. If an infant ingests a battery, please seek immediate medical attention.

## Cautions

- Remove and dispose of an old battery immediately.
- Do not disassemble, heat or short a battery. Do not throw a battery into a fire or water.
- Follow local regulations when disposing of a battery.
- Improper use of a battery may cause overheating, an explosion or ignition, resulting in injury or a fire.

### Note: Battery Information:

Battery Type: Panasonic lithium battery (CR2025)  
(Included in the remote control)

Battery Life: Approximately 6 months under normal use  
(at room temperature)

You can select a TV standard format (NTSC/PAL). Refer to "TV Type" (⇒ Page 37).

- 1 Press **[SRC] (PWR)** to turn on the power.
- 2 Hold down **[DISP]** for 2 sec. or more.



- 3 Adjust the hour.  
**[▶▶]** : Sets ahead.  
**[◀◀]** : Sets back.



- 4 Press **[DISP]**.



- 5 Adjust the minute.  
**[▶▶]** : Sets ahead.  
**[◀◀]** : Sets back.



- 6 Press **[DISP]**.



# General

This chapter explains how to turn on or off the power, how to adjust the volume, etc.

## Power On/off (PWR: POWER)

### Power on

Press **[SRC]** (PWR: POWER).



### Power off

Hold down **[SRC]** (PWR: POWER).

You can remove the face plate to prevent it from being stolen.

### Removing

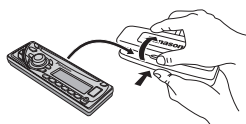
1 Turn off the power. (→ page 14)

2 Press **[⏏]** (Release).

(The face plate disengages with a click when it is removed.)

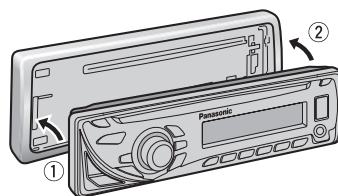


3 Put the face plate in the case.



### Mounting

1 Slide the left side of the face plate in place.



2 Press the right end of the face plate until "click" is heard.

## Face Plate Removing/Mounting (ANTI-THEFT SYSTEM)

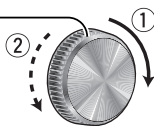
### ⚠ Cautions

- This face plate is not waterproof. Do not expose it to water or excessive moisture.
- Do not remove the face plate while driving your car.
- Do not place the face plate on the dashboard or nearby areas where the temperature rises to high levels.
- Do not touch the contacts on the face plate or on the main unit, since this may result in poor electrical contacts.
- If dirt or other foreign substances adhere on the contacts, wipe them off with a clean and dry cloth.

- ① Up
- ② Down

Setting Range: 0 to 40

Default: 18



### Notes:

- The volume level can be set independently for each source. (For radio, one volume setting for AM, one volume setting for all FMs)
- This unit memorizes individual volume levels for each source. Make volume adjustments of each source appropriately to prevent large volume fluctuation when the source is changed.

## Volume Adjustment (VOLUME)

## Temporary Volume Off (Down)

MUTE (ATT: ATTENUATION)

### Volume off (down)

(only by remote control unit)

Press **[MUTE]**.

### Cancel

Press **[MUTE]** again.

**Note:** The volume-down range can be specified.  
(→ page 35)



## Clock Display (at Power Off)

When the power of the unit is set to OFF, press **[DISP]** (ACC ON).

 (Clock time) (Default)



 (Display off)

When the power is set to ON, refer to the description for each source mode.

The source changes as follows every time [SRC] is pressed.



Source Selection  
(SOURCE)

## Radio

FM1, FM2, FM3, AM (→ page 18)

RADIO



## Player

CD, MP3/DivX, DVD/VCD (→ page 20, 22, 26)

MP3/CD



## USB

Device connected to the USB terminal (→ page 32)

USB



## AV IN

Device connected to the AV IN terminal

AV IN



## AUX 1

Device connected to the AUX terminal of this unit

AUX 1

## Bluetooth

Devices connected via Bluetooth

← BLUETOOTH



## System-up Connector

Device connected to the System-up Connector of this unit

**When optional devices are connected:**

Shift to connected devices

**When an expansion module is connected:**

The devices connected to the ports 1 to 4 are activated in sequence after shifting to AUX2 (devices connected to the AUX terminal of the expansion module).

When connecting DVD/CD Changer

CHANGER

When connecting iPod

IPOD 1

When connecting Expansion Module

→ AUX 2

The equalizer curve is selectable from among preset 6 types (FLAT, ROCK, POP, VOCAL, JAZZ, and CLUB) depending on your listening category.

### SQ changeover

The SQ category is changed every time **[SQ]** (SOUND QUALITY) is pressed.

**Note:** Setting of SQ, bass/treble and volume are influenced one another. If the influence mentioned above causes distortion to the audio signal, readjust bass/treble or volume. (→ page 34)



SQ is adjustable in accordance with your taste.

**1** Press **[PUSH SEL: SELECT]** to display the AUDIO menu display.

For using the remote control, use **[SEL]**.

**2** Press **[PUSH SEL: SELECT]** to select "SQ SET".

For using the remote control, use **[SEL]**.

**3** Adjust each band.

SQ Low/Bass: ±12 dB (at 60 Hz, 80 Hz, 100 Hz, 200 Hz)

SQ Mid: ±12 dB (at 500 Hz, 1 kHz, 2 kHz, 3 kHz)

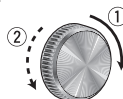
SQ High/Treble: ±12 dB (at 10 kHz, 12 kHz, 15 kHz, 18 kHz)



① ② : Centre frequency selection

[◀] [▶] : Band selection

[^] [v] : Level up/down



**Note:** If **[BAND]** is held down for 2 sec. or more on the "SQ ADJUSTMENT" display, the preset data that is called up can be turned into the default.



**4** Hold down the numeric button **[2]** to **[6]** for 2 sec. or more.

The adjusted SQ is preset in the number of the selected button, and the regular mode resumes.

#### Notes:

- When the SQ preset adjustment is suspended, the recent adjustment for each level remains until a new SQ presetting operation is performed or the SQ preset is called up.
- Any SQ presetting value cannot be saved in the **[1]** button.
- Any SQ adjustments will not change the call-up screen names such as ROCK and JAZZ.

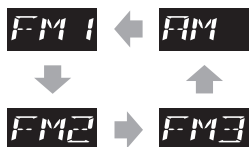
# Radio

This chapter explains how to listen to the radio.

## Operation Flow

1 Press **[SRC]** to select the radio mode.

2 Press **[BAND]** to select a band.



3 Select a station.

### Frequency adjustment

**[◀◀]** (TUNE): Lower

**[▶▶]** (TUNE): Higher

**Note:** Hold down the button for 0.5 sec. or more and release it for station search.

### Preset station selection

Press the numeric button **[1]** to **[6]**.

## Radio Mode Display



ST (Stereo) indicator

Band

Frequency

Preset number

### Display Change

Press **[DISP]** to change the display as follows.

Frequency



Clock Time



Up to 6 stations can be preset in AM (LW/MW), FM1, FM2, and FM3 respectively.

### Auto Preset Memory (APM)

Stations with good receiving conditions are automatically preset.

- 1 Select a band.
- 2 Hold down [BAND] (APM) for 2 sec. or more.



The preset stations under best receiving conditions are received for 5 sec. each after presetting the stations (SCAN). To stop scanning, press one of the buttons from [1] to [6].

**Note:** New stations overwrite existing saved stations.

### Manual station preset

- 1 Tune in to a station.
- 2 Hold down one of the preset buttons from [1] to [6] until the display blinks once.



Preset number

### Preset Station Calling

- 1 Select a band.
- 2 Press one of the preset buttons from [1] to [6].

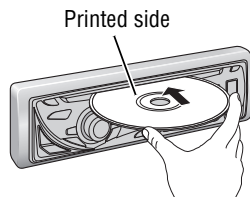
## ⚠ Cautions

- Do not insert a disc when **DISC** indicator lights because a disc is already loaded.
- This unit does not support 8 cm discs.
- Do not use irregularly shaped discs. (⇒ page 47)
- Do not insert foreign matter into the disc slots.
- Refer to the section on “Notes on CD/CD Media (CD-ROM, CD-R, CD-RW)”. (⇒ page 47)
- This unit does not support a MIX mode CD (a CD containing both CD-DA and compressed audio data). In case of using such a CD, problems such as anacoustic playback may occur.

### Operation Flow

When a disc is already loaded, press **[SRC]** to select the CD mode.

- 1 Load a disc with the printed side facing up.



- 2 Select a desired portion.

### Track selection

**[▶▶]** (TRACK): Next track

**[◀◀]** (TRACK): Preceding track (press twice)

**Note:** Hold down for fast forward/reverse.

### Pause

Press **[BAND]** (▶||).

Press again to cancel.

- 3 Press **[▲]** to eject the disc.

### CD Mode Display



### Display Change

Press **[DISP]**.

Track/Play time



Disc title



Track title



Clock time



### Notes:

- “NO TEXT” is displayed when there is no information on the disc.
- To have another circle scroll while a title is displayed, press **[3]** (SCROLL).
- The displayed item switches between “play time” and “total play time” alternately every time time **[OSD]** on the remote control is pressed. (⇒ page 30)

## Random Play

All the available tracks are played in a random sequence.

Press **[4] (RANDOM)**.

**R▶** lights.

Press **[4] (RANDOM)** again to cancel.

## Scan Play

The first 10 seconds of each track is played in sequence.

Press **[5] (SCAN)**.



Press **[5] (SCAN)** again to cancel.

## Repeat Play

The current track is repeated.

Press **[6] (REPEAT)**.

**REP** lights.

Press **[6] (REPEAT)** again to cancel.

## Direct Track Selection

**Example:** Track number 10



- 1 Press **[GRP]**.
- 2 Press **[1]** and **[0]**. (Press **[RETURN]** to cancel.)
- 3 Press **[ENTER]**.

**Note:** Random, Scan and Repeat plays are canceled once **[ENTER]** is pressed.

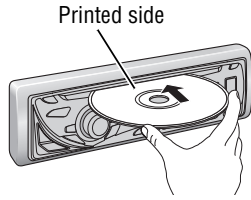
# MP3/DivX Player

The optional monitor (CY-VM7203W) is necessary to be connected to see images of DivX files.

## Operation Flow

When a disc is already loaded, press **[SRC]** to select the compressed audio mode.

- 1 Load a disc with the printed side facing up.



- 2 Select a desired portion.

### Folder selection

- [^]** (FOLDER): Next folder
- [v]** (FOLDER): Preceding folder



### File selection

- [>>]** (TRACK): Next file
- [<<]** (TRACK): Preceding file (press twice)

**Note:** Hold down for fast forward/reverse.

### Pause

- Press **[BAND]** (▶||).
- Press again to cancel.

- 3 Press **[▲]** to eject the disc.

## Compressed Audio Player Mode Display



### DivX display example



### Display Change

Press **[DISP]**.

Folder/File



Play time



Folder name

( **[DISC] FOLDER** ) (Data reading)



File name

( **[DISC] FILE** ) (Data reading)



Album name

( **[DISC] ALBUM** ) (Data reading) (only for MP3 files)



Title and Artist name

( **[DISC] TITLE** ) (Data reading)



Clock time



### Notes:

- "NO TEXT" is displayed when there is no information on the disc.
- To have another circle scroll while a title is displayed, press **[3]** (SCROLL).

**Notes:**

- Refer to "Notes on MP3/DivX". (⇒ Page 24)
- This unit does not support a MIX mode CD (a CD containing both CD-DA and compressed audio files). In case of using such a CD, problems such as anacoustic playback may occur.

**Random, Repeat Play**  
 (RANDOM, REPEAT)

**Random Play**

All the available files are played in a random sequence.

Press **[4] (RANDOM)**.

**R▶** lights.

Press **[4] (RANDOM)** again to cancel.

**Folder Random Play**

All the files in the current folder are played in a random sequence.

Hold down **[4] (RANDOM)** for 2 sec. or more.

**FOLDER R▶** light.

Hold down **[4] (RANDOM)** again for 2 sec. or more to cancel.

**Repeat Play**

The current file is repeated.

Press **[6] (REPEAT)**.

**REP** lights.

Press **[6] (REPEAT)** again to cancel.

**Folder Repeat Play**

The current folder is repeated.

Hold down **[6] (REPEAT)** for 2 sec. or more.

**FOLDER REP** light.

Hold down **[6] (REPEAT)** again for 2 sec. or more to cancel.

**Functions Only by Remote Control Unit**
**Direct Selection**
**Direct Folder Selection**

**Example:** Folder number 10 (⇒ Page 25)



- 1 Press **[GRP]** twice.
- 2 Press **[1]** and **[0]**. (Press **[RETURN]** to cancel.)
- 3 Press **[ENTER]**.

**Direct File Selection**

**Example:** File number 10



- 1 Press **[GRP]**.
- 2 Press **[1]** and **[0]**. (Press **[RETURN]** to cancel.)
- 3 Press **[ENTER]**.

**Note:** Random, Folder Random, Repeat and Folder Repeat plays are canceled once **[ENTER]** is pressed.

# Notes on MP3/DivX

Cautions as to compressed audio files

## What is MP3/DivX?

**MP3:** MP3 (MPEG Audio Layer-3) is the compression format of digital audio. It is developed by MPEG (Motion Picture Experts Group). Using this compression format, the contents of about 10 music CDs can be recorded on a single CD (This figure refers 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).

**DivX:** The video compression format developed by DivX, Inc. compresses video files without any considerable loss of video quality.

**Note:** Each of the encoding software programs is not included with this unit.

## Setting at file making

### Common

- High bit rate and high sampling frequency are recommended for high quality sounds.
- Selecting VBR (Variable Bit Rate) is not recommended because playing time is not displayed properly and sound may be skipped.
- The playback sound quality differs depending on the encoding circumstances. For details, refer to the user manual of your own encoding software and writing software.
- Be sure to put an extension compatible with the format.
- It is recommended that the length of the file name is less than 8 characters (excluding the file extension).

### MP3

- It is recommended to set the bit rate to "128 kbps or more" and "fixed".

### DivX

- DivX files greater than 2 GB or having no index may not play properly on this unit.
- This unit supports all resolutions up to maximum of 720 x 480 (NTSC)/720 x 576 (PAL).
- You can select up to 8 types of audios and subtitles on this unit.
- GMC (Global Motion Compensation) is not supported.

### Compression formats

Compression method	Bit rate	VBR	Sampling frequency
MPEG 1 audio layer 3 (MP3)	32 k – 320 kbps	Yes	32, 44.1, 48 kHz
MPEG 2 audio layer 3 (MP3)	8 k – 160 kbps	Yes	16, 22.05, 24 kHz
DivX data created using ver.3.11, 4.x, 5.x*	8 k – 320 kbps	Yes	8 k – 48 kHz

\* DivX video system/MP2, MP3

### Caution

Never put ".mp3" to other than MP3-formatted data or ".DIVX", ".divx", ".AVI", and ".avi" to other than DivX-formatted data. This may not only produce noise from the speaker damage, but also damage your hearing.

Cautions as to the display of this unit

### Display Information

- **CD-TEXT**  
Disc title  
Track title
- **MP3 (ID3 tag)**  
Album name  
Title and artist name
- **MP3/DivX**  
Folder name  
File name

- The ASCII character set and special characters in each language can be displayed.
- Some Cyrillic characters in the Unicode can be displayed.

### Displayable characters

- Displayable length of file name/folder name: within 64 characters. (Unicoded file and folder names are reduced by half in the number of displayable characters.)
- Name files and folders in accordance with the standard of each file system. Refer to the instructions of writing software for details.

### ASCII character set

A to Z, a to z, digits 0 to 9, and the following symbols:

(space) ! " # \$ % & ' ( ) \* + , - . / : ; < = > ? @ [ \ ] ^ \_ ` { | } ~

### Notes:

- Characters may be garbled depending on encoding software to be used.
- Undisplayable characters and symbols will be converted into an asterisk (\*).

### Compressed audio file writing

- Do not save an audio file (CD-DA file) and a compressed audio file on the same disc. Failure to observe this may result in difficulty in playing.
- If compressed audio files formatted with two or more types are saved on the same disc, each format shall have a different folder.
- Do not write files other than compressed audio files.
- Playability may depend on the combination of writing software and disc writer to be used.
- This unit does not support the play list function.
- Write files in a disc-at-once manner unless otherwise needed.
- You can shorten the duration between data read and playback by decreasing the quantity of files or folders, or the depth of the hierarchy.

### Supported file systems

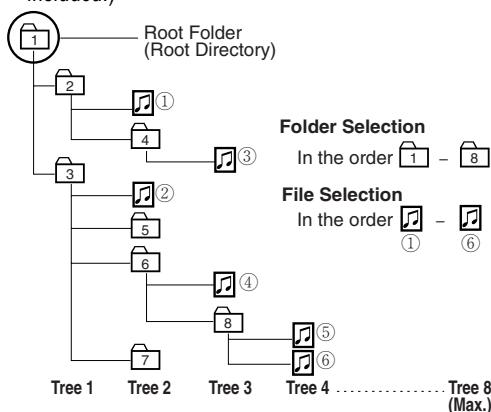
ISO 9660 Level 1/Level 2/Level 3, Joliet, Romeo

**Note:** Apple HFS, UDF 1.50, Mix CD and CD Extra are not supported.

### Folder selection order/file playback order

#### Maximum number of files/folders

- Maximum number of files: CD-media: 1200  
USB device: 999
- Maximum number of files in one folder: 1200
- Maximum depth of trees: 8
- Maximum number of folders: 255 (The root folder is included.)



#### Notes:

- This unit counts the number of folders irrespective of the presence or absence of a compressed audio file.
- If the selected folder does not contain any compressed audio file, the nearest compressed audio file in the order of playback will play.
- Playback order with this unit may be different from that with other compressed audio players even if the same disc is used.
- "ROOT" appears when displaying the root folder name.

### Copyright

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

iTunes is a trademark of Apple Inc., registered in the U.S. and other countries/regions.

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

### No warranty

Above description complies with our investigations as of October 2007. It has no warranty for reproducibility and displayability of MP3/DivX.

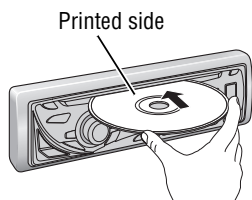
# DVD/VCD Player

You can enjoy watching DVDs and VCDs if the optional monitor (CY-VM7203W) is connected.

## Operation Flow

When a disc is already loaded, press **[SRC]** to select the DVD/VCD mode.

- 1 Load a disc with the printed side facing up.



- 2 Select a desired portion.

### Chapter/Track selection

- [▶▶▶]**: Next chapter/Next track
- [◀◀◀]**: Preceding chapter/ Preceding track (press twice)

### Pause

- Press **[BAND] (▶||)**.
- Press again to cancel.



### Fast Forward/Fast Reverse

- Hold down for 0.5 sec. or more.
- Each time the button is pressed, the speed changes as follows.  
Regular speed → 2 times → 5 times → 10 times → 20 times
- [▶▶▶]**: Fast forward
- [◀◀◀]**: Fast reverse
- Press **[BAND] (▶||)** to cancel.

### Slow play

- Hold down **[▶▶▶]** for 0.5 sec. or more during pausing.
- Press **[BAND] (▶||)** again to cancel.

### Repeat Play

- The current chapter is repeated.
- Hold down **[6] (REPEAT)** for 2 sec. or more.
- REP** light.
- Hold down **[6] (REPEAT)** again for 2 sec. or more to cancel.

## DVD/VCD Player mode display

### DVD



### VCD



### DVD display example



### Display Change

#### ■ DVD disc

Title/Chapter



Clock time



#### ■ VCD disc

VCD



Clock time



## Disc Menu

Playback of the disc can be temporarily stopped and the on-disc menu screen can be called up.

- 1 Press **[MENU]** on the remote control during playback.
- 2 Press **[^]/[v]/[<]/[>]** to select an item.
- 3 Press **[ENTER]** to determine the selection.

## Title Menu

Playback of the disc can be temporarily stopped and the on-disc title menu screen can be called up.

- 1 Hold down **[MENU] (TITLE)** on the remote control for more than 2 sec. or more.
- 2 Press **[^]/[v]/[<]/[>]** to select an item.
- 3 Press **[ENTER]** to determine the selection.

**Note:** You can also select an item by pressing **[0]** to **[9]** on the remote control. (Press **[RETURN]** to cancel the operation.)

## Stop

Press **[■] (STOP)**.

Press **[▶||] (PLAY)** to resume playback from the point where **[■] (STOP)** is pressed. (Continued playback function)

To cancel continued playback, press **[■] (STOP)** again in the stop mode.

## Direct Selection (during playback)

### Direct Chapter Selection

**Example:** Chapter number 10

 CHAPT\_ 10

- 1 Press **[GRP]**.
- 2 Press **[1]** and **[0]**. (Press **[RETURN]** to cancel.)
- 3 Press **[ENTER]**.

### Direct Title Selection

**Example:** Title number 10

 TITLE 10

- 1 Press **[GRP]** twice.
- 2 Press **[1]** and **[0]**. (Press **[RETURN]** to cancel.)
- 3 Press **[ENTER]**.

### List Selection


Only for PBC-applicable (Playback control → Page 61)  
VCDs or some DVDs

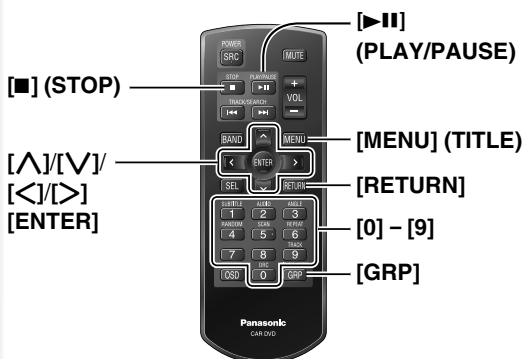
**Example:** List number 10

 NUMBER

- 1 Press **[1]** and **[0]**. (Press **[RETURN]** to cancel.)
- 2 Press **[ENTER]**.

### Notes:

- If a non-existent title/chapter/track number is entered, the command is invalid and the display returns to the regular mode.
- Direct title selections can be made by pressing **[GRP]** once in the stop mode. 



DivX Video-on-Demand (VOD) content is encrypted for copyright protection. In order to play DivX VOD content on this unit, you first need to register the unit.

Follow the on-line instructions for purchasing DivX VOD content to enter the unit's registration code and register the unit. For more information about DivX VOD, visit [www.divx.com/vod](http://www.divx.com/vod).

## Display the unit's registration code

(Only for remote control unit, → page 36 "User Settings")

- 1 Press **[MENU]**.
- 2 Press **[9]**.



8 alphanumeric characters

### Notes:

- Making a note of this code is recommended for future reference.
- After playing DivX VOD content for the first time, another registration code is then displayed in "DivX Registration". Do not use this registration code to purchase DivX VOD content. If you use this code to purchase DivX VOD content, and then play the content on this unit, you will no longer be able to play any content that you purchased using the previous code.
- If DivX VOD content is purchased using a registration code different from this unit's code, this content cannot be played. ("Authorization Error" is displayed.)

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

Some DivX VOD content can only be played a set number of times. When you play this content, the remaining number of plays is displayed. You cannot play this content when the number of remaining plays is zero. ("Rental Expired" is displayed.)

When playing this content

- The number of remaining plays is reduced by one if
  - you press **[SRC]**.
  - you press **[■] (STOP)** on the remote control unit.
  - you press **[◀] / [▶]** (**◀◀ / ▶▶**) etc. and arrive at another content or the start of the content being played.
- Resume (→ page 27 "Stop") function does not work.

### Subtitle DVD DivX

A subtitle language can be selected if the loaded disc has multi-language subtitles.

When **[1] (SUBTITLE)** is held down for 2 sec. or more, the subtitle language is changed over at the intervals of 1 second.

### Audio DVD DivX

An audio channel can be selected if the disc holding multi-audio channels is loaded.

When **[2] (AUDIO)** is held down for 2 sec. or more, the audio channel is changed over at the intervals of 1 second.

**Note:** Channel change may take time when a DivX file plays depending on its file structure.

### Audio VCD

Audio output can be selected from among "STEREO", "MONO L" and "MONO R".

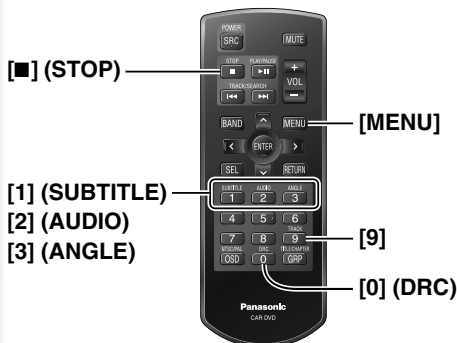
When **[2] (AUDIO)** is held down for 2 sec. or more, the audio output is changed over at the intervals of 1 second.

**STEREO** → **MONO L** → **MONO R**

### Angle DVD

An angle can be selected if a multi-angle disc is loaded.

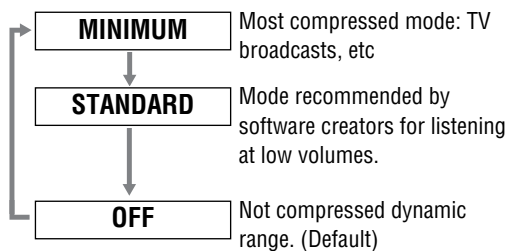
When **[3] (ANGLE)** is held down for 2 sec. or more, the angle is changed over at the intervals of 1 second.



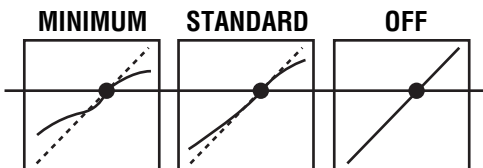
### D.Range Compression DVD

A range of dynamic range compression can be selected. This function is effective for playback of Dolby Digital/Dolby Surround DVD video. The words of an actor hardly audible during playback at a low volume, for example, will become easier to listen to by selecting "MINIMUM".

- 1 Hold down **[0] (DRC)** during playback for 2 sec. or more to activate the DRC selection mode.
- 2 Hold down **[0] (DRC)** for 2 sec. or more to select a range of DRC.



Conversation level



### ! Caution

The sound of DVD video covers a wide dynamic range of more than 100 dB. Thus, the reproduced sound volume of some DVD discs may be significantly low. When the volume is increased in this case, the sound may reach the peak level suddenly and it may lead to a traffic accident. To avoid such an accident, this function is useful.

# OSD (On-Screen Display)

You can see OSDs (On-Screen Display) if the optional monitor (CY-VM7203W) is connected.

## (Only for remote control unit)

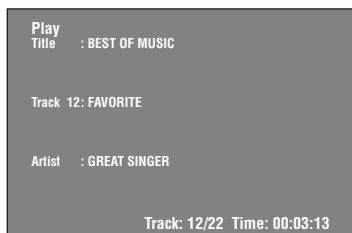
The optional monitor can be set up to display or hide the following information: title/artist name for CDs, album/title/artist name for MP3, playtime for VCDs/DivX and title/chapter/playtime for DVDs.

Each time [OSD] is pressed, the display changes according to the disc type.

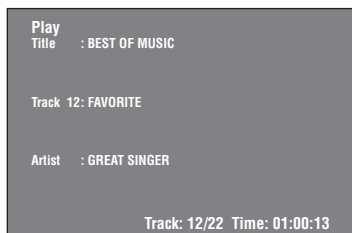
OSD (On-Screen Display)

### CD (Music CD)

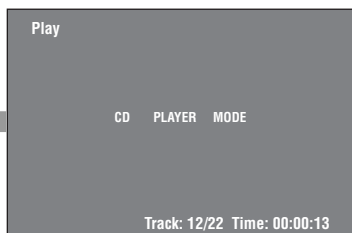
#### Track play time



#### Total play time

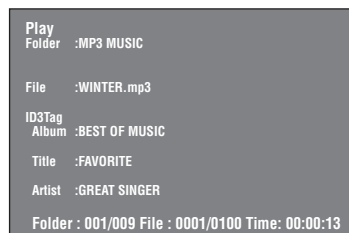


#### CD player mode



### MP3

#### ID3 TAG ON



#### MP3 player mode



### DivX

#### Text off



#### DivX player mode



**DVD (DVD Video)**

Text off



Chapter play time



Total play time



**VCD (Video CD)**

Text off



Play time



[OSD]

# USB (MP3/WMA)

## ⚠ Cautions

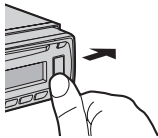
- Do not connect a USB device directly to this unit. If a USB device is connected directly to this unit and an accident occurs, or if the brakes are applied suddenly, the driver or passenger may bump into the USB device and may be injured.
- Connect your USB device to your car audio using a standard USB extension cable (5 m or less).
- Position the USB device and USB extension cable so that they do not interfere with your driving.
- Do not connect any USB device other than a USB memory or a USB audio player. Do not connect multiple USB devices to the USB connector. Supplying power to multiple USB devices from the connector could cause overheating and smoking.

## Notes:

- This unit plays back MP3/WMA files stored on a USB memory.
- Connection of an iPod to the USB connector of this unit is not supported.
- Back up any important data beforehand. We cannot accept responsibility for any lost data.
- Refer to the section on "Compatible USB devices". (⇒ page 7)
- Refer to the section on "Notes on MP3/DivX". (⇒ page 24)
- A file with a play time exceeding 1 000 minutes will not play correctly to the end of the track.
- Depending on the connected USB memory, the order in which the files are played back may differ from the order in which the files were stored.

1 Press [SRC] to select the USB mode.

2 Open the USB connector cover.



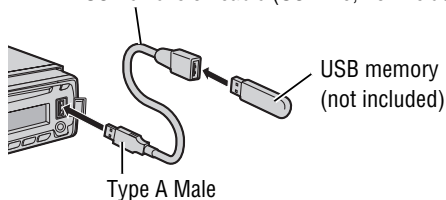
3 Using a USB extension cable, connect a USB memory to this unit.

MP3/WMA files recognized by the unit are played back automatically.

## Notes:

- When connecting (disconnecting) a USB memory, turn down the volume of the unit.
- When connecting the cables, make sure the connector is pushed all the way into the socket.
- This unit may not operate correctly if a cable other than a USB standard cable is used, or if the total extended length of the cable exceeds 5 m.

USB extension cable (USB 2.0, not included)



4 Select a desired portion.

## Folder selection

[^] (FOLDER): Next folder

[v] (FOLDER): Preceding folder

## File selection

[▶▶] (TRACK): Next file

[◀◀] (TRACK): Preceding file (press twice)

**Note:** Hold down for fast forward/reverse.

## Pause

Press [BAND] (▶||).

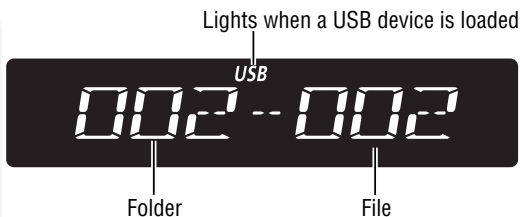
Press again to cancel.

## USB Disconnect

Disconnect the USB memory and USB extension cable.

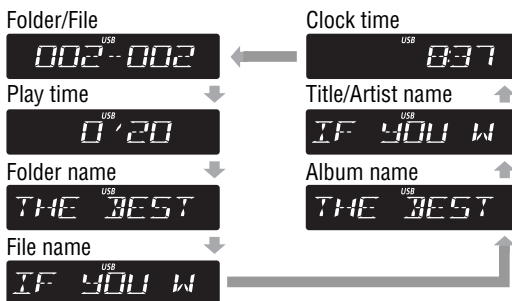
## Notes:

- Do not leave the USB device for long periods of time in places inside the car where the temperature rises too high.
- To prevent dirt and dust from adhering to the USB connector, close the cover of this unit when not in use.



## Display Change

Press **[DISP]**.



### Notes:

- "NO TEXT" is displayed when there is no information on the disc.
- To have another circle scroll while a title is displayed, press **[3] (SCROLL)**.

(RANDOM, SCAN, REPEAT)

## Random Play

All the available files are played in a random sequence.

Press **[4] (RANDOM)**.

**[R▶]** lights.

Press **[4] (RANDOM)** again to cancel.

## Folder Random Play

All the files in the current folder are played in a random sequence.

Hold down **[4] (RANDOM)** for 2 sec. or more.

**[FOLDER R▶]** light.

Hold down **[4] (RANDOM)** again for 2 sec. or more to cancel.

## Scan Play

The first 10 seconds of each file is played in sequence.

Press **[5] (SCAN)**.

Press **[5] (SCAN)** again to cancel.

## Folder Scan Play

From the next folder, the first 10 seconds of the first file in each folder is played in sequence.

Hold down **[5] (SCAN)** for more than 2 seconds.

**[FOLDER]** light.

Hold down **[5] (SCAN)** again for more than 2 seconds to cancel.

## Repeat Play

The current file is repeated.

Press **[6] (REPEAT)**.

**[REP]** lights.

Press **[6] (REPEAT)** again to cancel.

## Folder Repeat Play

The current folder is repeated.

Hold down **[6] (REPEAT)** for 2 sec. or more.

**[FOLDER REP]** light.

Hold down **[6] (REPEAT)** again for 2 sec. or more to cancel.

## Direct Selection

### Direct Folder Selection

Example: Folder number 10 (→ Page 25)



- 1 Press **[GRP]** twice.
- 2 Press **[1]** and **[0]**. (Press **[RETURN]** to cancel.)
- 3 Press **[ENTER]**.

### Direct File Selection

Example: File number 10



- 1 Press **[GRP]**.
- 2 Press **[1]** and **[0]**. (Press **[RETURN]** to cancel.)
- 3 Press **[ENTER]**.

**Note:** Random, Folder Random, Repeat and Folder Repeat plays are canceled once **[ENTER]** is pressed.

# Audio Setting

Adjustment to each speaker and an optional subwoofer

- 1 Press **[PUSH SEL: SELECT]** to display the AUDIO menu display.

For using the remote control, use **[SEL]**.

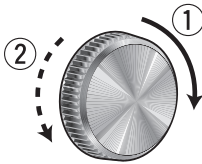


- 2 Press **[PUSH SEL: SELECT]** to select a mode to be adjusted.

For using the remote control, use **[SEL]**.

- 3 Turn **[VOL]** clockwise or counterclockwise to adjust.

For using the remote control, use **[^]** or **[v]**.



## VOLUME

Main volume adjustment

(Setting range: 0 to 40, Default: 15)

- ① : Up
- ② : Down



## BASS

Bass adjustment

(Setting range: -12 dB to +12 dB, 2 dB Step, Default: Bass 0 dB)

- ① : Up
- ② : Down



## TREBLE

Treble adjustment

(Setting range: -12 dB to +12 dB, 2 dB Step, Default: Treble 0 dB)

- ① : Up
- ② : Down



**Note:** Do not activate SQ and Bass/Treble at the same time to avoid causing sound distortion.

## SQ SET

(⇒ Page 17)

## BALANCE

Balance adjustment

(Setting range: L (left) 15 to R (right) 15 and Centre, Default: Centre)

- ① : Right enhanced
- ② : Left enhanced



## FADER

Fader adjustment

(Setting range: R (rear) 15 to F (front) 15 and Centre, Default: Centre)

- ① : Front enhanced
- ② : Rear enhanced



# Function Setting

Adjustment to display on the FUNCTION menu

- 1 Hold down **[VOLUME] (PUSH SEL: select)** for 2 sec. or more.



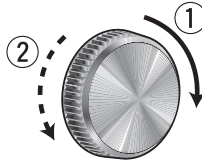
For using the remote control, hold down **[SEL]** for 2 sec. or more.

- 2 Press **[PUSH SEL: SELECT]** to select a mode to be adjusted.

For using the remote control, use **[SEL]**.

- 3 Turn **[VOL]** clockwise or counterclockwise to adjust.

For using the remote control, use **[^]** or **[v]**



## COLOR

Color change of the light  
(Setting range: OCEAN, SKY, FOREST, ORANGE, FIRE, PINK, ROSE, STORM (7 colors available) Default: STORM)

## MUTE KEY

Setting **[MUTE]** buttons' functions

- ② ↑ ↓ ① **MUTE** : Volume off (default)  
**ATT** : Volume down by 10 steps

## AUX IN

Setting at source selection

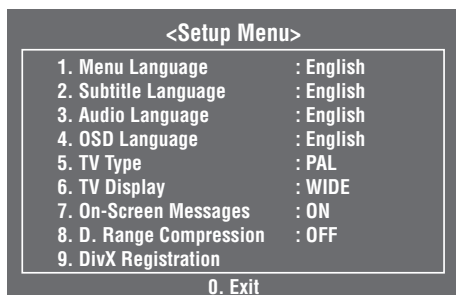
- ① : ON (AUX 1 selection even when no device is connected, default)  
② : OFF (AUX 1 skipped)

# User Settings

The following information explains the settings only about the disc player and displayed contents on the screen.  
(Only for remote control unit)

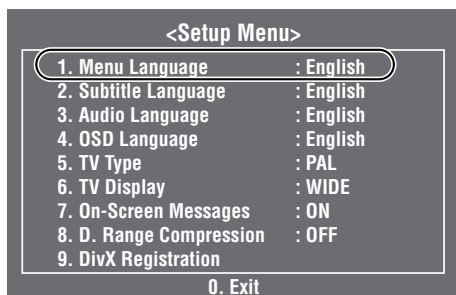
<Setup Menu> display

- 1** Press [MENU] to display "Setup Menu".



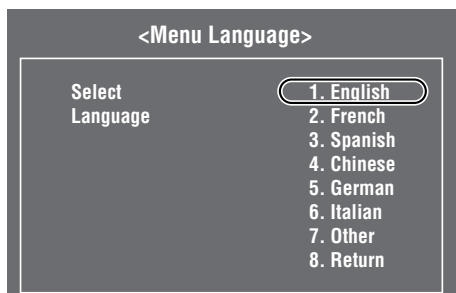
- 2** Press one of the numeric buttons from [1] to [9] to select a function to be adjusted.

(Example: "1. Menu Language")



- 3** Press one of the numeric buttons from [1] to [8] to select each item.

(Example: "1. English")



- 4** Press [0] to close the menu.

## 1. Menu Language

Disc menu language selection

(Default: English)

1. English
2. French
3. Spanish
4. Chinese
5. German
6. Italian
7. Other (⇒ Page 38)
8. Return The display returns to "Setup Menu".

## 2. Subtitle Language

(Default: English)

1. English
2. French
3. Spanish
4. Chinese
5. German
6. Italian
7. Other (⇒ Page 38)
8. Disp Off Subtitle language is not displayed.
9. Return The display returns to "Setup Menu".

**Note:** A disc supporting closed captioning and subtitles may overlap on the screen. In this case, turn the subtitle off.

## 3. Audio Language

(Default: English)

1. English
2. French
3. Spanish
4. Chinese
5. German
6. Italian
7. Other (⇒ Page 38)
8. Return The display returns to "Setup Menu".

## 4. OSD Language

(Default: English)

1. English
2. Chinese
3. Return The display returns to "Setup Menu".

## 5. TV Type

TV standard format (PAL/NTSC) setting  
(Default: NTSC (CQ-DX200W3)/PAL (CQ-DX200W5))

**Note:** Setting should be made to match the format of the connected monitor. Select NTSC if connections are made possible for both NTSC and PAL. If you select PAL, a picture may be partly omitted.

- 1. NTSC** The unit transmits the NTSC formatted signal in either case, playing an NTSC formatted video or a PAL formatted video.
- 2. PAL** The unit transmits the PAL formatted signal in either case, playing an NTSC formatted video or a PAL formatted video.
- 3. Multi** The unit transmits the same video signal as the output of playing video software.

**Note:** If the connected monitor cannot automatically select between NTSC and PAL according to the video signal of the disc to be reproduced, images on the screen may be distorted. Select NTSC or PAL at the monitor side depending on the disc to be reproduced.

- 4. Return** The display returns to "Setup Menu".

**Note:** Holding down the [OSD] button on the remote control for 2 sec. or more before disc play allows users to toggle between NTSC and PAL.

## 6. TV Display

Display aspect setting  
(Default: WIDE)

- 1. WIDE (16:9)** Plays in the Wide mode when a wide-screen monitor is connected.
- 2. Pan & Scan (4:3)** Plays in the Pan & Scan mode when a conventional monitor is connected.
- 3. Letterbox (4:3)** Plays in the Letterbox mode when a conventional monitor is connected.
- 4. Return** The display returns to "Setup Menu".

**Note:** If "Pan & Scan" or "Letterbox" is already set in the software, this setting shall be ignored.

## 7. On-Screen Messages

This is to select On-screen Display messages which will be displayed when On-screen Display is turned off by pressing [OSD]. (⇒ Page 30)  
(Default: ON)

- 1. ON** When the power is turned on, On-Screen Display message such as "Play" and "Pause" will be displayed on the screen for 5 seconds.
- 2. OFF** When the power is turned on, On-Screen Display messages such as "Play" and "Pause" will not be displayed on the screen.
- 3. Return** The display returns to "Setup Menu".

## 8. D.Range Compression

By compressing the range of the playback level (the dynamic range), it is possible to maintain the impact of audio even at low volumes.

This function only works with Dolby Digital encoded material.

(Default: OFF)

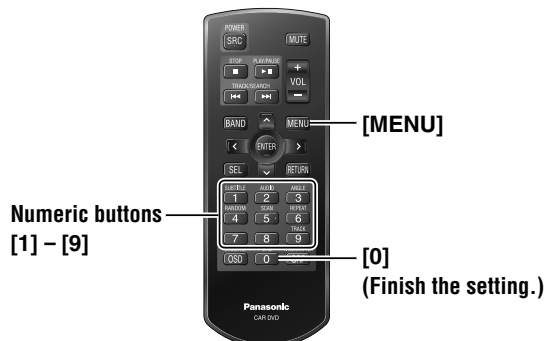
- 1. Minimum** Most compressed mode: TV broadcasts, etc
- 2. Standard** Mode recommended by software creators for listening at low volumes.
- 3. OFF** Not compressed dynamic range
- 4. Return** The display returns to "Setup Menu".

**Note:** When it is difficult to hear comparatively small sound (such as movie dialogue), selection of "Minimum" will make those sounds easier to hear.

## 9. DivX Registration

(⇒ Page 28)

To return to the "Setup Menu" display, press [RETURN].



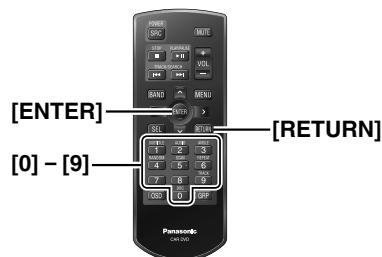
# Language Code List

(Only for remote control unit)

In "Other" cases (Menu Language, Subtitle Language, Audio Language) (⇒ Page 36)

**1** Press numeric buttons from [0] to [9] to enter a 4-digit language code. (See below.)  
To enter the number again, press [RETURN].

**2** Press [ENTER] to finalize the selection.  
Setting is finished and the display returns to "Setup Menu".



Code	Language Name
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Ameharic
6582	Arabic
6583	Assamese
6589	Aymara
6590	Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengali; Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
6978	English
6979	Esperanto
6983	Spanish
6984	Estonian
6985	Basque
7065	Persian
7073	Finnish
7074	Fiji
7079	Faroese
7082	French
7089	Frisian
7165	Irish
7168	Scots Gaelic
7176	Galician
7178	Guarani
7185	Gujarati
7265	Hausa
7273	Hindi
7282	Croatian
7285	Hungarian

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	Punjabi
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

# Troubleshooting

## If You Suspect Something Wrong

Check and take steps as described below.

If the described suggestions do not solve the problem, it is recommended to take the unit to your nearest authorized Panasonic Service Center. The product should be serviced only by qualified personnel. Please refer the check and repair to professionals. Panasonic shall not be liable for any accidents arising out of neglect of checking the unit or your own repair after your checking.

**Never take measures especially for those other than indicated by *italic* letters in "Possible Solution" described below because those are too dangerous for users to handle themselves.**

### Warning

- Do not use the unit in an irregular condition, for example, without sound, or with smoke or a foul smell, which can cause ignition or electric shock. Immediately stop using the unit and consult your dealer.
- Never try to repair the unit by yourself because it is dangerous to do so.

Problem	Possible cause ⇒ Possible solution
<b>No power to the unit</b>	The power cord (battery, power and ground) is connected in the wrong way. ⇒ <b>Check the wiring.</b>
	Fuse blows out. ⇒ <b>Eliminate the cause of fuse blowout and replace the fuse with new one. Consult your dealer.</b>
<b>Sound is not generated.</b>	MUTE is set to ON. ⇒ <b>Set MUTE to OFF.</b>
	There is contact between the external mute lead and the chassis. ⇒ <b>Connect the external mute lead correctly. If the lead is unused, insulate it.</b>
	The wiring of speaker lines are not correct, or a break or poor contact arises. ⇒ <b>Check the wiring in accordance with the wiring diagram. (Installation Instructions)</b>
<b>Noise</b>	There is an electromagnetic-wave generator such as a cellular phone near the unit or its electrical lines. ⇒ <b>Keep an electromagnetic-wave generator such as a cellular phone away from the unit and the wiring of the unit. In case that noise cannot be eliminated due to the wiring harness of the car, consult your dealer.</b>
	The contact of the ground lead is poor. ⇒ <b>Make sure that the ground lead is connected to an unpainted part of the chassis securely.</b>
<b>Noise is made in step with engine revolutions.</b>	Alternator noise comes from the car. ⇒ <b>Change the wiring position of the ground lead.</b> ⇒ <b>Mount a noise filter on the power supply.</b>

Common

# Troubleshooting (continued)

## Common (continued)

Problem	Possible cause → Possible solution
Some operations are not executable.	Some operations are not executable in particular modes such as menu mode. → <b>Read the operating instructions carefully and cancel the mode. If the unit is still out of order, consult your dealer.</b>
No sound from speaker(s)	BALANCE/FADER setting is not appropriate. → <b>Readjust BALANCE/FADER.</b> There is a break, a short circuit, poor contact or wrong wiring regarding the speaker wiring. → <b>Check the speaker wiring.</b>
The speaker channels are reversed between right and left.	The speaker wiring is confused between right and left. → <b>Perform the speaker wiring in accordance with the wiring diagram.</b>
The sound field is not clear in the stereo mode. Central sound does not settled.	The plus and minus terminals at right and left channels of speakers are connected reversely. → <b>Perform the speaker wiring in accordance with the wiring diagram.</b>
The power fails unintentionally.	The safety device works. → <b>Consult your dealer, or your nearest Panasonic Service Center.</b>

## Radio

Poor reception or noise	Antenna installation or wiring of antenna cable is faulty. → <b>Check whether the antenna mounting position and its wiring are correct. In addition, check to see whether the antenna ground is securely connected to the chassis.</b> No power is supplied to the antenna amplifier (when using a film antenna, etc.). → <b>Check the wiring of the antenna battery lead.</b>
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## Problem

## Possible cause → Possible solution

The number of auto preset stations is less than 6.

The number of receivable stations is less than 6.  
 → **Move to an area where receivable stations number is maximum, and try pre-setting.**

Preset stations cannot be stored.

The contact of the battery lead is poor, or the battery lead is not always powered.  
 → **Make sure that the battery lead is connected securely, and preset stations again.**

No playback or disc ejected

The disc is inserted upside down.  
 → **Insert a disc correctly.**  
 There is a flaw or foreign material on the disc.  
 → **Remove the foreign material, or use a flawless disc.**

Sound skipping or noise

There is a flaw or foreign material on the disc.  
 → **Remove the foreign material, or use a flawless disc.**

Sound skipping due to vibration

The unit is not sufficiently secured.  
 → **Secure the unit to the console box.**  
 The unit is tilted at over 30° in the front-to-end direction.  
 → **Make the angle 30° or less.**

Disc unejectable

Something such as a peeled label obstructs the disc coming out.  
 → **Consult your dealer.**  
 The microcontroller in the unit operates abnormally due to noise or other factors.  
 → **Unplug the power cord and plug it again. In case the unit is still out of order, consult your dealer.**

# Troubleshooting (continued)

## Compressed audio

Problem	Possible cause → Possible solution
No playback or disc ejected	The disc has unplayable formatted data. → <b>Check the file format.</b>
The CD-R/RWs that are playable on other devices are not playable on this unit.	The playability of some CD-Rs/RWs/DVD-Rs/RWs may depend on the combination of media, recording software and recorder to be used even if these CD-Rs/RWs/DVD-Rs/RWs are playable on other devices such as a PC. → <b>Make CD-R/RWs in different combination of media, recording software and recorder after referring to the description about the compressed audio player.</b>
Sound skipping or noise	There is a flaw or foreign material on the disc. → <b>Remove the foreign material, or use a flawless disc.</b> Playing VBR (Variable Bit Rate) files may cause sound skipping. → <b>Play Non-VBR files.</b>
The picture stops.	The picture may stop if the DivX files are greater than 2 GB. → <b>Keep the file size under 2 GB.</b>

**Note:** Refer to "Notes on MP3/DivX". (→ Page 24)

## Remote control unit

No response to pressing buttons	The battery is inserted in the wrong direction. A wrong battery is inserted. → <b>Insert a correct battery in the correct direction.</b>
	The battery is weak. → <b>Replace the battery with new one.</b>
	The aiming direction of the remote control unit is wrong. → <b>Aim the remote control unit at the sensor of the unit and press buttons.</b>
	The sensor is exposed to direct sunlight. (The remote control unit may not be operable when the sensor is exposed to direct sunlight. In such a case, the system is not faulty.) → <b>Block off sunlight to the sensor.</b>

## USB (MP3/WMA)

Problem	Possible cause → Possible solution
<b>Music is not played back even if the USB device is connected.</b>	The USB device and USB extension cable are not connected correctly. → <b>Connect the USB device and USB extension cable correctly.</b>
	There is no music stored in a format that is supported on this unit. → <b>Check if there is any music data that can be played stored on the USB device.</b>
	The file system of the USB device is not compatible with this unit. → <b>Use a USB device with a FAT12/16/32 file system.</b>
	The current consumption of the USB device exceeds 500 mA. → <b>Use a USB device with a current consumption lower than 500 mA.</b>
<b>“READING” is displayed but music is not played back.</b>	A USB hub is connected. → <b>Do not use a USB hub.</b>
	Too many recorded folders/files exist. → <b>When there are too many recorded folders/files, it may take a long time to read all of the files.</b>

## DVD/VCD

<b>No playback or disc ejected</b>	There is a flaw or foreign objects on the disc. → <b>Remove the foreign objects, or use a flawless disc.</b>
	The disc has unplayable formatted data. → <b>Refer to the description about available disc types.</b>
<b>Sound skipping or noise</b>	There is a flaw or foreign objects on the disc. → <b>Remove the foreign objects, or use a flawless disc.</b>
<b>Sound skipping due to vibration</b>	The unit is not sufficiently secured. → <b>Secure the unit to the console box.</b>
	The unit is tilted at over 30° in the front-to-end direction. → <b>Make the angle 30° or less.</b>
<b>Disc unejectable</b>	The microcontroller in the unit operates abnormally due to noise or other factors. → <b>Unplug the power cord and plug it again. In case the unit is still out of order, consult your dealer.</b>
<b>The picture does not appear on the monitor.</b>	Cables are not correctly connected. → <b>Connect cables correctly.</b> → <b>Stop the car and apply the parking brake.</b>
<b>The picture appears incorrectly.</b>	The video signal setting of this unit (NTSC/PAL) does not match with the video signal setting of the connected monitor. → <b>Make the same setting between this unit and the monitor.</b>

# Troubleshooting (continued)

DVD/VCD (continued)

Problem	Possible cause → Possible solution
<p>Video CD menu playback does not work.</p>	<p>→ <i>Video CD menu playback works only when playing a video CD that has the playback control feature.</i></p>
<p>The picture becomes distorted while fast forwarding or reversing.</p>	<p>→ <i>A certain amount of distortion is normal.</i></p>
<p>No subtitles appear.</p>	<p>Subtitle must be recorded on the disc, or else they will not appear.            → <i>Refer to the guide provided with your disc.</i></p>
<p>It is difficult to hear small sounds. (Dolby Digital DVD software only)</p>	<p>→ <i>Set "D.Range Compression" to "Minimum".</i></p>
<p>Cannot switch the audio language/subtitle language/angle.</p>	<p>It is not possible to switch if the disc does not have multiple audio languages/subtitle languages/angles recorded on it.            → <i>Refer to the guide provided with your disc.</i>            → <i>Some discs permit switching through a menu screen.</i>            → <i>Sometimes, switching angle is possible only with certain scenes.</i></p>
<p>The audio/subtitle language selected in the user settings is not used.</p>	<p>If audio or subtitles in that language are not recorded on the disc, the audio or subtitles do not switch to that language. (Some discs permit switching through a menu screen.)            → <i>Refer to the guide provided with your disc.</i></p>
<p>A DVD-R or DVD-RW is not playable.</p>	<p>The disc is still unfinalized.            → <i>Finalize the disc.</i>  <i>Refer to "Discs that can be Played Back" (→ Page 8) or "Notes on Discs" (→ Page 47) for other cases.</i></p>

# Error Display Messages

CD/Compressed Audio

Display	Possible cause → Possible solution
	<p>The disc is dirty, or is upside down. → <b>Check the disc.</b></p> <p>The disc has scratches. → <b>Check the disc.</b></p>
	<p>No operation by some cause. → <b>Unplug the power cord and plug it again. In case the unit is still out of order, consult your dealer.</b> (→ Installation Instructions)</p>
	<p>The player for some reason cannot read the file you are trying to play. (File recorded in an unsupported file system, compression scheme, data format, file name extension, damaged data, etc.) → <b>Select a file that the player can read. Check the type of data recorded on the disc. Create a new disc if necessary.</b></p>
	<p>No disc.</p>




DivX VOD (displayed on connected monitor)

<p><b>Authorization Error</b></p> <p>This player is not authorized to play this video.</p> <p>ENTER: Continue STOP: Stop</p>	<p>You are trying to play the DivX VOD content that was purchased with a different registration code. → <b>Purchase the DivX VOD content with the registration code of this unit.</b> (→ Page 24)</p>
<p><b>Rental Expired</b></p> <p>ENTER: Continue STOP: Stop</p>	<p>The DivX VOD content has no available play count. → <b>Purchase again the content or play another content.</b> (→ Page 28)</p>

USB (MP3/WMA)

	<p>A USB device is not connected or the connected device cannot be recognized. → <b>Use a USB memory compatible with this unit.</b></p>
	<p>No playable files exist. An unsupported USB device was connected. → <b>Use a USB memory compatible with this unit.</b> → <b>Record files that can be played back on this unit onto the USB memory.</b></p>

# Error Display Messages (continued)

Display	Possible cause → Possible solution
<div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; font-size: 1.2em;">USB (MP3/WMA) (continued)</div> 	<p>A USB device the capacity of which exceeds the acceptable current was connected. For some reason, an over-current was detected.</p> <ul style="list-style-type: none"> <li>→ Use a USB memory that has a consumption current of less than 500 mA.</li> <li>→ Switch the source, and select the USB (MP3/WMA) mode again. (When the USB connector section lights blue, it is normal.)</li> <li>→ Check that the USB connector section is not dirty, and that there is no foreign material.</li> </ul>
	<p>No operation by some cause.</p> <ul style="list-style-type: none"> <li>→ Turn off the power and turn on the power again, or turn the key to the ACC OFF position and turn the key to ACC ON position again. If this does not solve the problem, unplug the power cord and plug it in again. In case the unit is still out of order, consult your dealer. (→ Installation Instructions)</li> </ul>
	<p>The player for some reason cannot read the file you are trying to play. (File recorded in an unsupported file system, compression scheme, data format, file name extension, damaged data, etc.)</p> <ul style="list-style-type: none"> <li>→ Confirm that the USB extension cable is firmly connected, and reconnect if not. Select a file that the player can read. Check the type of data stored in the USB memory. Format the USB memory if necessary.</li> </ul>

# Maintenance/Fuse

## Cleaning the Unit

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

## Fuse

If the fuse blows out, consult your dealer, or your nearest authorized Panasonic Service Center.

### ⚠ Warning

- Use fuses of the same specified rating (**15 A**). Using substitutes or fuses with higher ratings, or connecting the unit directly without a fuse could cause fire or damage to the unit. **If the replaced fuse fails, contact your nearest authorized Panasonic Service Center.**

If commercial CDs are used, they must have either of these labels shown at right. Some copy-protected music CDs are not playable.



### How to hold the disc

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

### Do not leave discs in the following places:

- In direct sunlight
- Near car heaters
- Dirty, dusty or damp areas
- On seats or dashboards

### Disc cleaning

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



Do not write on the disc label with a ballpoint pen or other hard-point pens.



Labels created by a printer,  
Protective films or sheets



Irregularly shaped discs



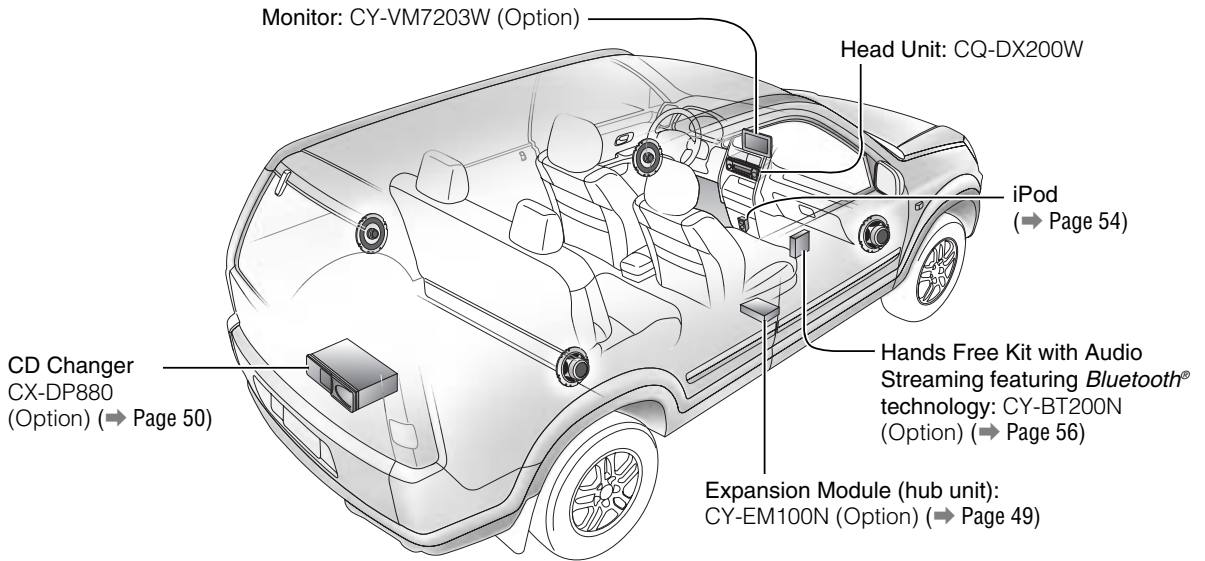
Disc with adhered  
stickers or tape



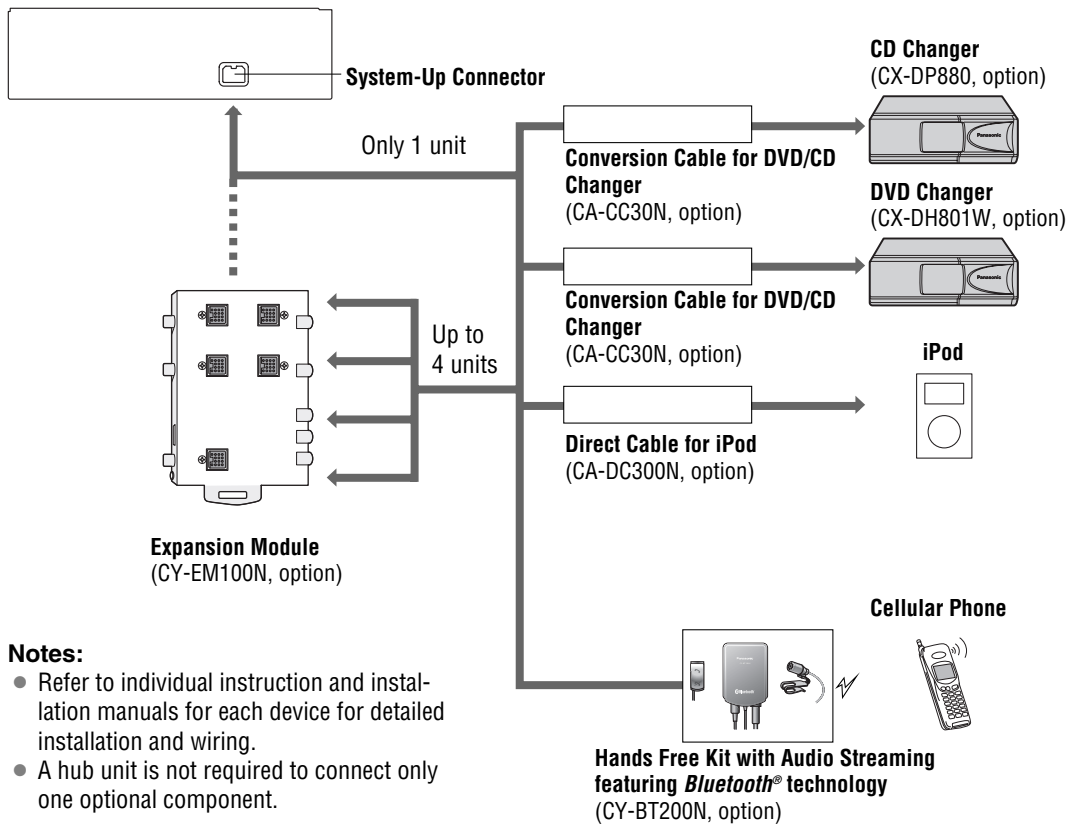
Discs with cracks,  
scratches or parts missing

- You may have trouble playing back some CD-R/RW discs recorded with 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 them and make playback impossible.
- Some CD-R/RWs can not be played back successfully thanks to incompatibility among writing software, a CD recorder (CD-R/RW drive) and the discs.
- This player cannot play the CD-R/RW discs if the session is not closed.
- This player cannot play the CD-R/RW discs which contains other than CD-DA or compressed audio data.
- Be sure to observe the instructions of CD-R/RW disc for handling it.

# System Upgrade Sample



## Head Unit CQ-DX200W



### Notes:

- Refer to individual instruction and installation manuals for each device for detailed installation and wiring.
- A hub unit is not required to connect only one optional component.

### DVD Changer

The optional adapter (Conversion Cable for DVD/CD Changer: CA-CC30N) allows users to connect the optional Panasonic DVD changer unit (CX-DH801W). For details, refer to the operating instructions for the DVD changer unit. (⇒ page 50, 52)

### CD Changer

The optional adapter (Conversion Cable for DVD/CD Changer: CA-CC30N) allows users to connect the optional Panasonic CD changer unit (CX-DP880). For details, refer to the operating instructions for the CD changer unit. (⇒ page 50)

### iPod®

The optional adapter (Direct Cable for iPod: CA-DC300N) allows users to connect the optional iPod series. (⇒ page 54)

The iPod equipped with a dock connector is exclusively connectable. Further information about the controllable iPod is described below.

#### Controllable iPod/software version

- 3rd generation iPod/ver. 2.3
- 4th generation iPod/ver. 3.1.1
- 5th generation iPod/ver. 1.1.2 (Video playback is not supported.)
- iPod Photo/ver. 1.2.1
- iPod mini/ver. 1.4.1
- iPod nano/ver. 1.2

\* Operation check has been completed with software available at the end of October, 2007. We do not guarantee the operation with our future products or upgraded software.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

### Hands-Free Phone System

You can connect the optional Hands-Free Phone System (Hands Free Kit with Audio Streaming featuring *Bluetooth*® technology: CY-BT200N). (⇒ page 56)

#### Note:

- This unit is designed **only for receiving calls**. It cannot send calls.
- CY-BT100N is not supported.

#### Bluetooth®

The Bluetooth word mark and logo are owned by the Bluetooth SIG, Inc. and any use of such marks by Matsushita Electric Industrial Co., Ltd. is under license. Other trademarks and trade name are those of their respective owners.

### Expansion Module (hub unit)

You can connect the optional Expansion Module (hub unit) (CY-EM100N). Connection of the Expansion Module allows you to simultaneously connect optional devices mentioned before as well as other AV devices. For details, refer to the operating instructions for the Expansion Module.

Connectable devices

- CD changer (max. 1)
- iPod (max. 2)
- Hands-Free Phone System (max. 1)

**Note:** Market conditions regarding optional devices vary with countries and regions. For further information, consult your dealer.

# Disc Changer (When CDs or MP3 discs are loaded)

Connected an optional CD changer or an optional DVD changer can be controlled by this unit.

## Operation Flow

### 1 Load a magazine (discs).

When a magazine is already loaded, press **[SRC]** to select the CD changer mode.

The unit recognizes the magazine and starts playing automatically.



### 2 Select a desired portion.

#### Disc selection

**[^]** (**DISC**): Next disc

**[v]** (**DISC**): Preceding disc

#### Folder up/down

##### Only for DVD Changer

Hold down for 2 sec. or more.

**[^]** (**FOLDER**): Next folder

**[v]** (**FOLDER**): Preceding folder

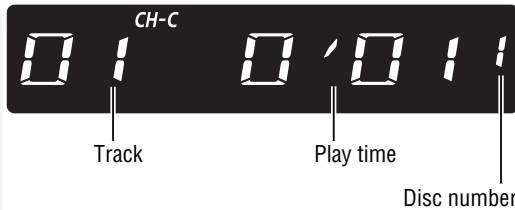
#### Track/File selection

**[>>]**: Next track/file

**[<<]**: Preceding track/file (press twice)

**Note:** Hold down for fast forward/reverse.

## CD Changer Mode Display



### Display Change

Press **[DISP]**.

Track/Play time



Clock Time



**Notes:**

- When CX-DP880 or CX-DH801W is connected, a CD-RW disc is playable.
- Trouble may occur while playing CD-Rs. Refer to the section on “Notes on CD/CD Media (CD-ROM, CD-R, CD-RW)”. (→ Page 47)
- This unit does not support the following through the CD changer.
  - **MP3 playback.**

**Random, Repeat Play (Disc Changer Menu Display)**

(RANDOM, REPEAT)

**RANDOM**

- **CD-DA**  
RANDOM playback of the selected disc (DVD changer)  
RANDOM playback of all discs in the magazine (CD changer)
- **MP3 disc**  
RANDOM playback of the selected folders

Press [4] (RANDOM).

**R▶** lights.

Press [4] (RANDOM) again to cancel.

**DISC RANDOM (Only for CD changer)**

All the available tracks on the current disc are played in a random sequence.

Hold down [4] (RANDOM) for 2 sec. or more.

**DISC R▶** light.

Hold down [4] (RANDOM) again for 2 sec. or more to cancel.

**REPEAT**

The current track/file is repeated.

Press [6] (REPEAT).

**REP** lights.

Press [6] (REPEAT) again to cancel.

**DISC REPEAT (Only for CD-DA disc)**

The current disc is repeated.

Hold down [6] (REPEAT) for 2 sec. or more.

**DISC REP** light.

Hold down [6] (REPEAT) again for 2 sec. or more to cancel.

**FOLDER REPEAT (Only for MP3 disc)**

The current folder is repeated.

Hold down [6] (REPEAT) for 2 sec. or more.

**DISC REP** light.

Hold down [6] (REPEAT) again for 2 sec. or more to cancel.

**SCAN play**

You can find your favorite file by playing first 10-sec. of each file.

**SCAN (CD changer: All tracks, DVD changer: from selected disc)**

Press [5] (SCAN). Press again to cancel.

**DISC SCAN (1st file in each disc, only for CD changer)**

Hold down [5] (SCAN) for 2 sec. or more. Hold down again to cancel.

**Functions Only by Remote Control Unit****Direct Access**

A disc can be directly selected.

**Example:** disc number 5

- 1 Press [GRP].
- 2 Press [5].
- 3 Press [ENTER].



# Disc Changer (when DVDs or VCDs are loaded)

Connected an optional DVD changer (CX-DH801W) can be controlled by this unit.

## Operation Flow

### 1 Load a magazine (discs).

When a magazine is already loaded, press **[SRC]** to select the DVD changer mode.

The unit recognizes the magazine and starts playing automatically.

#### Notes:

- For DVD operations other than the above (i.e. DVD menu, closed caption, etc.), use the remote control unit supplied with the DVD changer.
- The remote control unit supplied with the DVD changer does not work properly when you aim it at this unit.
- When using the remote control unit supplied with the DVD changer, aim it at the monitor display (CY-VM7203W).



### 2 Select a desired portion.

#### Disc selection

**[^]** (DISC): Next disc

**[v]** (DISC): Preceding disc

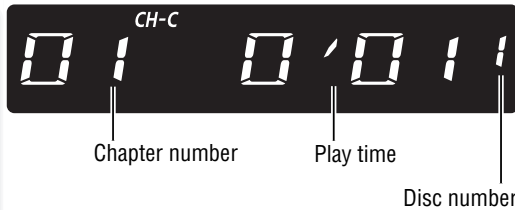
#### Chapter/Track selection

**[▶▶]**: Next chapter/Next track

**[◀◀]**: Preceding chapter/ Preceding track  
(press twice)

**Note:** Hold down for fast forward/reverse.

## DVD Changer Mode Display



### Display Change

Press **[DISP]**.

Chapter number/Play time



Clock Time



## ● For a DVD insertion

**CHAPTER REPEAT**

The current chapter is repeated.

Press **[6] (REPEAT)**.

**REP** lights.

Press **[6] (REPEAT)** again to cancel.

**TITLE REPEAT**

The current disc is repeated.

Hold down **[6] (REPEAT)** for 2 sec. or more.

**DISC REP** light.

Hold down **[6] (REPEAT)** again for 2 sec. or more to cancel.

**Note:** The unit may not operate for some DVDs.

## ● For a VCD insertion

**REPEAT**

The current track is repeated.

Press **[6] (REPEAT)**.

**REP** lights.

Press **[6] (REPEAT)** again to cancel.

**DISC REPEAT**

The current disc is repeated.

Hold down **[6] (REPEAT)** for 2 sec. or more.

**DISC REP** light.

Hold down **[6] (REPEAT)** again for 2 sec. or more to cancel.

**Notes:**

- The unit may not operate for some VCDs.
- The unit may not operate for a disc with the playback function activated.

**Direct Access**

A disc can be directly selected.

**Example:** disc number 5

- 1 Press **[GRP]**.
- 2 Press **[5]**.
- 3 Press **[ENTER]**.



# iPod Control

Connection of the optional iPod adapter (Direct cable for iPod) (CA-DC300N) allows users to operate the iPod including file selection and file sequence change with the buttons on this unit.

## Operation Flow

- 1 Connect the iPod.
  - 2 Press **[SRC]** to select the iPod mode. Playback starts.
- Note:** If playback does not start, press **[BAND]** (**▶||**).
- 3 Select a desired portion.



### File Selection

- [▶▶]:** Next file  
**[◀◀]:** Beginning of the current file  
For the previous file, press twice.

**Note:** Hold down for fast forward/reverse.

### Pause

- Press **[BAND]** (**▶||**).  
Press again to cancel.

## Playing Mode selection

The type with which playback data is classified is selectable.

- 1 Press **[^]** (**LIST**) to call up the play mode selection screen.
- 2 Turn **[VOL]** to select the play mode.

**PLAYLIST:** Playback by playlist

**ARTIST:** Playback by artist

**ALBUM:** Playback by album

For using the remote control, use **[^]** or **[V]**.

#### Notes:

- When the **[<]** button is pressed, the regular screen appears.
- Displayable length of playlist/artist/album name: within 8 characters (Otherwise, it cannot be displayed completely at the above playing mode.)

- 3 Press **[PUSH SEL]** to determine the selection.  
For using the remote control, use **[BAND]** (**SET**).



- 4 Turn **[VOL]** to select the portion to play.

#### Notes:

- For selecting **ARTIST**, the **ALBUM** selection screen appears after selecting an artist name.
- When the **[<]** button is pressed, the previous screen appears.

- 5 Press **[PUSH SEL]** to determine the selection.

For using the remote control, use **[BAND]** (**SET**).

**Note:** Files without an album name or an artist name are not playable in the playing mode of the album or artist display respectively.

**Notes:**

The iPod equipped with a dock connector is exclusively connectable. Further information about the controllable iPod is described below.

- Controllable iPod/software version
  - 3rd generation iPod/ver. 2.3
  - 4th generation iPod/ver. 3.1.1
  - 5th generation iPod/ver. 1.1.2 (Video playback is not supported.)
  - iPod Photo/ver. 1.2.1
  - iPod mini/ver. 1.4.1
  - iPod nano/ver. 1.2

\* Operation check has been completed with software available at the end of October, 2007. We do not guarantee the operation with our future products or upgraded software.

- The shuffle function of iPod corresponds to the RANDOM function of this unit.
- Please make sure to detach the iPod after turning off the car engine (turning the ACC to OFF). The iPod may not shut down while still connected, which may result in battery depletion.
- Please do not connect iPod accessories such as an iPod remote control or headphones while connecting iPod with the unit. The unit may not operate correctly.
- Connect this unit after turning down the volume of the iPod.
- "PAUSE" appears until the iPod is recognized after connecting the iPod, turning on the power of the main unit, or performing source selection on the main unit side. This indicates there is nothing wrong with the main unit.
- We do not guarantee all the operations of connectable devices.

## iPod Mode Display

**Display Change**

Press **[DISP]**.

File



Play time



Title



Album



Artist



## Repeat, Shuffle Play

**Repeat Play**

The current file is repeated.

Press **[6] (REPEAT)**.

**REP** lights.

Press again to cancel.

**Note:** All files are played back even at REPEAT-off setting. (ALL REPEAT)

**Shuffle**

The shuffle function of iPod corresponds to the RANDOM function of this unit.

**Songs**

All the available files are played in a random sequence.

Press **[4] (RANDOM)**.

**R▶** lights.

**Albums**

All the available albums are played in a random sequence.

Hold down **[4] (RANDOM)** for 2 sec. or more.

**R▶** blinks.

Hold down again to cancel.

Please read the operating instructions for the related devices as well before use.

- 1 Establish pairing. (→ next page)  
Please read the instructions for the devices to be connected as well.
- 2 Press [SRC] to select the Bluetooth mode.
- 3 Select the BT HF mode/BT AUDIO mode.  
[∧]: Hands-free phone system (BT HF mode)  
[∨]: Audio system (BT AUDIO mode)

**Note:** If the target device cannot be detected, “NO PHONE” or “NO AUDIO” appears.



## Display Change

Press [DISP].

The connected device name



Clock time



**Note:** If the target device name is unknown, “BT AUDIO” or “BT HF” appears.

**Note:** Some audio devices may be inoperable.

## Track selection

[▶▶] (TRACK): Next track

[◀◀] (TRACK): Preceding track (press twice)

**Note:** Hold down for fast forward/reverse.

## Pause

Press [BAND] (▶||).

Press again to cancel.



**Notes:**

- This unit is not operable when receiving a call at power-off setting.
- We do not guarantee all the operations of connectable devices.

**Pick up the phone.**

Pressing [**Hang-on**] allows users to pick up the phone during a call incoming.

**Note:** Pressing any of the preset buttons from [1] to [6] and [**BAND**] allows users to pick up the phone, too.

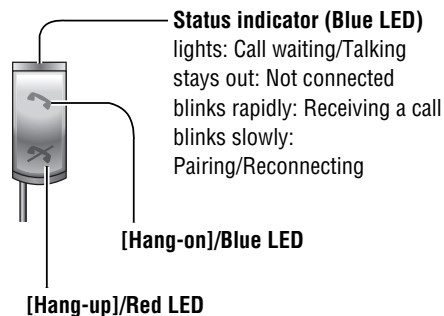
**Hang up the phone.**

Pressing [**Hang-up**] allows users to hang up the phone during a call.

**Speaker switchover**

The speaker from which the voice of the other side of the line comes out changes every time [**BAND**] is pressed.

PRIVATE: Output from the mobile phone  
HANDS-FREE TALK: Output from the speaker

**Switch unit****Call with use of the call register**

- 1 Select your target telephone number.  
[<]: Newer register  
[>]: Older register
- 2 Press [**BAND**] to make a call.

**Notes:**

- Up to latest 5 calls can be stored in the register.
- If the incoming call number is unknown, "UNKNOWN" appears.
- Pressing [3] (**SCROLL**) allows users to scroll the incoming call number during display of the number.

**Note:** This setting is feasible only during a call incoming or a call.

- 1 Press [**PUSH SEL: SELECT**] to display the AUDIO menu display.  
For using the remote control, use [**BAND**] (**SET**).
- 2 Press [**PUSH SEL: SELECT**] to select a mode to be adjusted.  
For using the remote control, use [**BAND**] (**SET**).
- 3 Turn [**VOL**] clockwise or counterclockwise to adjust.  
For using the remote control, use [**▲**] or [**▼**].

**Note:** If no operation takes place for 10 sec. or more in the audio menu (2 sec. in Main volume adjustment), the display returns to the regular mode.

**VOLUME**

Main volume adjustment

(Setting range: 0 to 40, Default: 15)

- ① : Up
- ② : Down

**Hands-Free SPEAKER**

Speaker selection

- ↑ **LEFT**: Sound from left speaker
- ② ↓ **BOTH**: Sound from both speakers (default)
- ① ↓ **RIGHT**: Sound from right speaker

**Note:** Sound comes only from the front speakers.

**Echo canceller**

- ① : EC HIGH (significant echo suppression)
- ② : EC LOW (echo suppression, default)

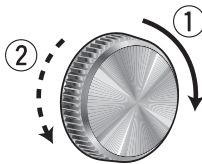
**Notes:**

- This setting is feasible only in the Bluetooth mode.
- Each item can be set in the BT HF mode and BT AUDIO mode independently.

**1** Hold down **[VOL-UME]** (**PUSH SEL: SELECT**) for 2 sec. or more.



**2** Press **[PUSH SEL: SELECT]** to select a mode to be adjusted. For using the remote control, use **[SEL]**.



**3** Perform each setting.

## PAIRING

Establishment of pairing with the devices to be connected

**Note:** This is displayed only when no information about the connected devices last time exists.

Press **[BAND]**.

**Notes:**

- To cancel the operation, press **[BAND]**.
- When pairing is successfully established, “\*\*\* CONNECTED” appears. (\*\*\*) indicates the device name.)
- When pairing is not successfully established, “PAIR ERR” appears.
- If 2 minutes elapse before pairing establishment, “TIME OUT” appears.

## PINCODE

The PIN code of the device with which pairing is established shall be entered. (default: 0000)

**Note:** This is displayed only when no information about the connected devices last time exists.

- 1** Use **[<]**, **[>]**, **[^]** and **[v]** for PIN code entry.
- 2** Press **[BAND]** to determine the entry.

**Note:** The buttons from **[0]** to **[9]** on the remote control are also available for PIN code entry.

## \*\*\*\*/CONNECT

Establishment of pairing with the devices last time connected

**Notes:**

- This is displayed only when pairing is not established with the connected devices last time.
- \*\*\* indicates the device name with connection information.

Press **[BAND]**.

**Notes:**

- To cancel the operation, press **[BAND]**.
- When pairing is successfully established, “\*\*\* CONNECTED” appears. (\*\*\*) indicates the device name.)
- If 2 minutes elapse before pairing establishment, “ERROR” appears.

## \*\*\*\*/DISCONNECT

Cancellation of pairing with the devices currently connected

**Notes:**

- This is displayed only when pairing is successfully established.
- \*\*\* indicates the name of the connected device.

Press **[BAND]**.

**Notes:**

- To cancel the operation, press **[BAND]**.
- When pairing is successfully canceled, “\*\*\* DISCONNECTED” appears. (\*\*\*) indicates the device name.)
- If 2 minutes elapse before pairing cancellation, “ERROR” appears.

## NEW PAIR

Establishment of new pairing

**Note:** This is displayed only when information about the connected devices last time exists.

Press **[BAND]**.

## DELETE

Deletion of information about the connected device last time

**Note:** This is displayed only when information about the connected devices last time exists.

Press **[BAND]**.

**Note:** When information is successfully deleted, “DELETED” appears.

# Troubleshooting

## If You Suspect Something Wrong







Check and take steps as described below.

If the described suggestions do not solve the problem, it is recommended to take the unit to your nearest authorized Panasonic Service Centre. The product should be serviced only by qualified personnel. Please refer the check and repair to professionals. Panasonic shall not be liable for any accidents arising out of neglect of checking the unit or your own repair after your checking.

**Never take measures especially for those other than indicated by *italic* letters in "Possible Solution" described below because those are too dangerous for users to handle themselves.**

### Warning

- Do not use the unit in an irregular condition, for example, without sound, or with smoke or a foul smell, which can cause ignition or electric shock. Immediately stop using the unit and consult your dealer.
- Never try to repair the unit by yourself because it is dangerous to do so.

Display	Possible cause → Possible solution
  (After 5 seconds) To next disc automatically	<p>The disc is dirty, or is upside down.</p> <p>The disc has scratches.            → <i>Eject the magazine.</i></p> <ul style="list-style-type: none"> <li>• Check the disc.</li> <li>• Load the disc again.</li> </ul>
	<p>No operation by some cause.            → <i>Eject the magazine. If failure persists, press the reset switch on the disc changer. If normal operation is not restored, consult your dealer or the nearest Panasonic Service Centre to ask for repairs.</i></p>
	<p>An error arises in the DVD changer.            → <i>Check the DVD changer. ("REGION ERROR" etc.)</i></p>
	<p>No disc is in the CD changer (magazine).            → <i>Insert discs into the changer (magazine).</i></p>
	<p>The changer has become disconnected from the unit in the changer mode.            → <i>Verify the wiring.</i></p>

**Note:** Messages in the possible solution and display sections of the error chart vary with changers. Refer to the operating instructions for the Disc changer for details.

# Troubleshooting (continued)

## iPod Control

### Display

Possible cause → Possible solution

NO IPOD

The iPod cable was disconnected in the iPod mode.  
→ **Reconnect the iPod cable.**

NO <sup>iPod</sup> SONGS

Your iPod has no playable music.  
→ **Download playable music to your iPod.**

## Bluetooth

NO BT

No device to be connected detected.  
→ **Check whether the power of the device to be connected is turned on.**

TIME OUT

Two (2) minutes elapse before pairing establishment.  
→ **Establish pairing again after checking the device to be connected.**

PAIR ERR

An error occurrence during pairing establishment.  
→ **Check whether the device to be connected is compatible with this unit.**  
→ **Check whether the entered PIN code is correct.**

ERROR

Pairing establishment/cancellation failure due to an error of unknown cause.  
→ **Check the device to be connected.**  
→ **Check whether the device to be connected is compatible with this unit.**

# Definition of Terms

## 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 VCDs (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 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 VCDs (Video CDs) is cut off at the left and right sides.

## Playback control (VCD (Video CD))

If the VCD (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.

## DivX

DivX is a popular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size. DivX files can also include advanced media features like menus, subtitles, and alternate audio tracks. Many DivX media files are available for download online, and you can create your own using your personal content and easy-to-use tools from DivX.com.

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### Official DivX® Certified product

Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files  
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# Specifications

## Notes:

- Specifications and design are subject to modification without notice due to improvements.
- Some figures and illustrations in these instructions may be different from your product.

<b>General</b>	<b>Power supply</b>	12 V DC (11 V – 16 V), test voltage 14.4 V, negative ground
	<b>Tone controls (Bass/Treble)</b>	Bass; ±12 dB at 60 Hz, Treble; ±12 dB at 16 kHz
	<b>Variable range of equalizer</b>	–12 dB to 12 dB (2 dB step)
	<b>Current consumption</b>	Less than 2.3 A (DVD mode, 0.5 W 4-speaker)
	<b>Maximum power output</b>	50 W x 4 (at 400 Hz)
	<b>Power output</b>	22 W x 4 (1 kHz, 1 %, 4 Ω)
	<b>Video signal system</b>	NTSC/PAL 1.0 Vp-p 75 Ω RCA pin jack
	<b>Speaker impedance</b>	4 – 8 Ω
	<b>Tone adjustment range</b>	Bass; ±12 dB (at 100 Hz), Treble; ±12 dB (at 10 kHz)
	<b>Pre-amp output voltage</b>	2 V (CD mode)
	<b>Pre-amp output impedance</b>	200 Ω
	<b>USB connector</b>	
	<b>USB standard compatibility</b>	1.1/2.0 full speed
	<b>File system</b>	FAT12/16/32
	<b>Maximum supply current</b>	500 mA
	<b>Playable audio format</b>	MP3/WMA
	<b>Recommended capacity</b>	Less than 4 GB (1 partition)
	<b>Front AV input (AV1 IN)</b>	
	<b>Input impedance</b>	47 kΩ
	<b>Allowable external input</b>	2.0 V
	<b>Connector</b>	3.5 mm∅ Stereo mini pin (Equipped with video input terminal)
<b>Video input signal</b>	Composite video signal, 1.0 Vp-p (75 Ω)	
<b>Audio input sensitivity</b>	2 Vrms	
<b>AUX input</b>		
<b>Input impedance</b>	10 kΩ	
<b>Allowable external input</b>	2 V	
<b>Tone/SQ adjustable range</b>	SQ low/bass; ±12 dB (at 60 Hz, 80 Hz, 100 Hz, 200 Hz) SQ mid; ±12 dB (at 500 Hz, 1 kHz, 1.5 kHz, 2.5 kHz) SQ high/treble; ±12 dB (at 10 kHz, 12.5 kHz, 15 kHz, 17.5 kHz)	
<b>Dimensions (Main Unit)</b>	178(W) x 50(H) x 160(D) mm	
<b>Weight (Main Unit)</b>	1.4 kg	

<b>Disc Player</b>	<b>DA converter</b>	1 bit DAC system
	<b>Pick-up type</b>	Astigma 3-beam
	<b>Light source</b>	Semiconductor laser
	<b>Frequency response</b>	20 Hz – 20 kHz (CD) 20 Hz – 22 kHz (DVD video 48 kHz sampling) 20 Hz – 44 kHz (DVD video 96 kHz sampling)
	<b>Signal to noise ratio</b>	95 dB (IHF, A)
	<b>Wow and flutter</b>	Below measurable limits

<b>Radio</b>	<b>FM stereo radio</b>	
	<b>Frequency range</b>	87.50 MHz – 108.00 MHz
	<b>Usable sensitivity</b>	6 dB/μV (S/N 30 dB)
	<b>Stereo separation</b>	35 dB (at 1 kHz)
	<b>AM radio</b>	
	<b>Frequency range</b>	531 kHz – 1 602 kHz
<b>Usable sensitivity</b>	27 dB/μV (S/N 20 dB)	

## Discs played

(1) DVD-Video disc

- 12 cm single-sided, single-layer/double-layer
- 12 cm double-sided, single-layer/double-layer

(2) Compact disc (CD-DA, Video CD, CD-R, CD-RW)

- 12 cm disc



## ■ 보증서

모델명	CQ-DX200W		
고객란	고객 성명:	_____ 님	
	고객 주소 : 우편번호	_____	
	시	구(읍, 면)	동(리)
	전화 번호 : ( _____ )	- _____	
구입 년월일	판매점 명, 주소, 전화 번호 :		
년 월 일			
보증 기간 (구입일부터)	전화 번호 : ( _____ ) - _____		
1 년간	제품의 시리얼 번호 :		

※ 구입일과 구입처(판매점)를 분명히 기재하여, 고객에게 전달하시기 바랍니다. 차후의 A/S수리와 관련하여 매우 중요하오니 반드시 보관하시기 바랍니다.

※ 당사에서는 제품의 시리얼 번호를 전산 처리하여 관리하고 있습니다. 보증서에 시리얼 번호를 기록 하여 두시기 바랍니다.

# 제조년월

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