

Panasonic welcomes you to their 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.

Precautions

When Driving

Keep the volume level low enough to be aware of road and traffic conditions.

When Washing Your Car

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

When Parked

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

Use the Proper Power Supply

This product is designed to operate with a 12 V DC, negative ground battery system.

Disc Mechanism

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

Service

This product is made of precision parts. Do not attempt to disassemble or adjust any parts. For repair, please consult the shop where you purchased the product.

For installation

This product should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

Note:

- The preset memory is cleared to return to the original factory setting when the power connector or battery is disconnected.

Note:

- This operating instruction manual applies to the following models. The differences among these models are mentioned below.
- All illustrations represent model CQ-C3400W unless otherwise specified.

Model	CQ-C3400W	CQ-C3300W	CQ-C3100W
Available Audio Format*	CD-DA/MP3/WMA	CD-DA/MP3/WMA	CD-DA
CD-text	Supported	Supported	Not supported
CD Changer Control	Supported	Not supported	Supported
Subwoofer	Supported	Not supported	Not supported

*Available Discs (➔ Page 14)

Accessories

- Operating Instructions (YEFM284150)..... 1
- Removable Face Plate Case (YEFA131839)..... 1
- Mounting Collar (YEFX0216165)..... 1
- Trim Plate (YEFX05611)..... 1
- Power Connector (YEAJ02877)..... 1
- Screw Kit (Lock Cancel Plate, Mounting Bolt, Tapping Screw, Hex. Nut) (YEF0FZ3315)..... 1 set
- Rear Support Strap (YEF04024)..... 1
- Remote Control Unit (CQ-C3400/C3300W: YEFX9992663 / CQ-C3100W: YEFX9992013) 1
- Lithium Battery <Type: CR2025> (CR2025/1F) 1

Note:

- The number in parenthesis underneath each accessory part name is the part number for maintenance and service.
- Accessories and their parts numbers are subject to modification without prior notice due to improvements.

Features

Large-sized volume control

An large-sized rotary volume control that looks like one belonging to a Hi-Fi audio system is featured.

CD Changer Control (Only for CQ-C3400/C3100W)

You can connect the optional CD changer unit. For details, refer to the operating instructions on the CD changer unit.

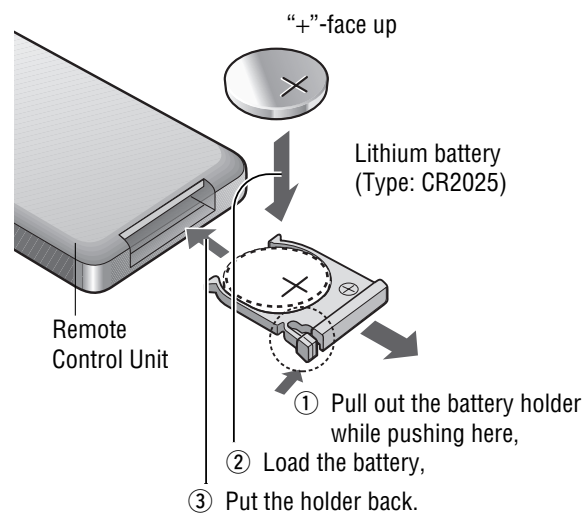
MP3/WMA Playback from CD-R/RW (Only for CQ-C3400/C3300W)

You can play your MP3/WMA (Windows Media Audio) files as well as regular CDs. With up to 10 to 12 times* the capacity of a conventional CD, a single MP3/WMA-encoded disc can keep you entertained throughout your entire journey.

*Depending on bit rate.

Remote Controls

Battery Installation



Battery Notes

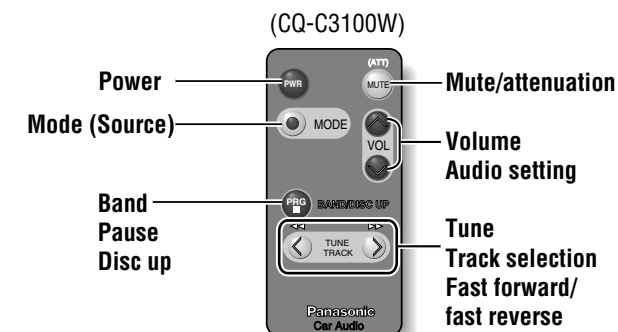
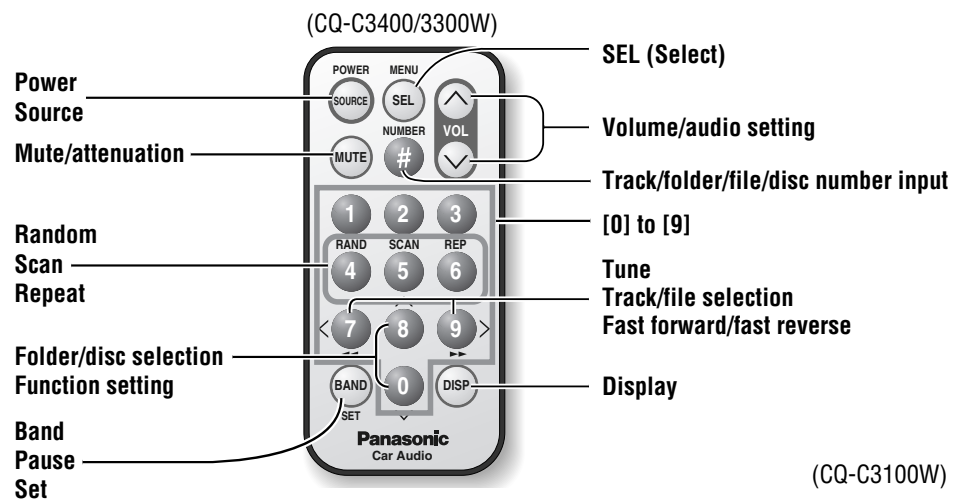
- Battery life: approx. 6 months
- Battery handling:
 - no disassembling (prevention of burst)
 - no short-circuiting (prevention of burst)
 - avoidance of fire (prevention of burst)
 - out of the reach of children (prevention of swallow)
- Replaced old battery: Follow the local regulations.

Caution:

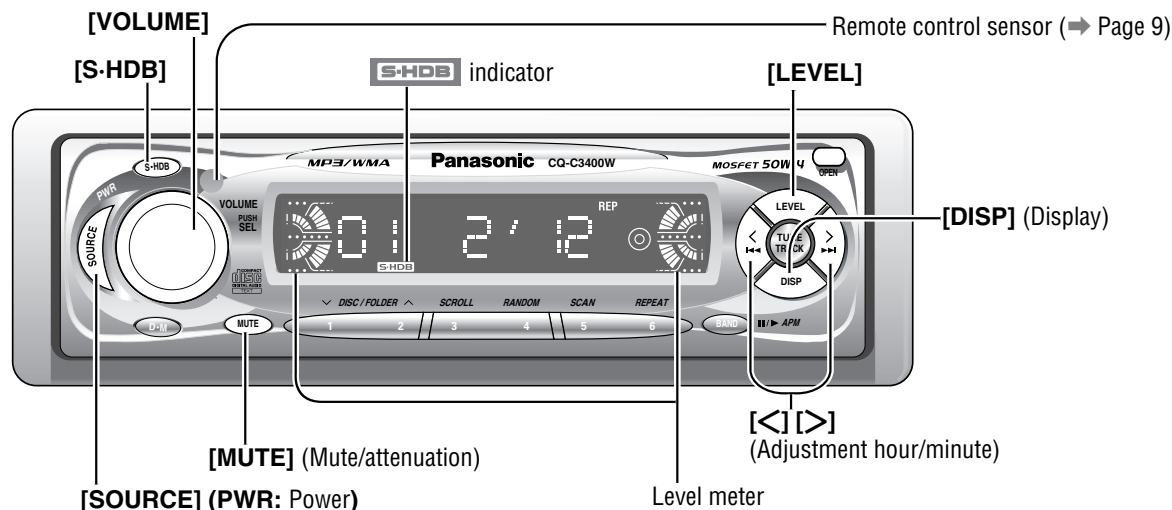
- Improper use of batteries may cause overheating, an explosion or ignition, resulting in injury or a fire.

Controls and Functions

- This instruction manual explains operations for use with the buttons on the main unit. (Different operations excluded)
- Aim the remote control at the remote control sensor of the unit and operate it. (➔ Page 10)



General



Power

Turn your car's ignition key to the ACC or ON position.

ON: Press **[SOURCE] (PWR)**.



OFF: Press **[SOURCE] (PWR)** again and hold for more than 1 second.

Note:

- After turning off the ignition key, the security message is displayed and the panel removal alarm that reminds you to take the panel is activated. (Default: SLED ON) (→ Page 24 about Security Function setting)

Demonstration Message

When the power is switched on for the first time, a demonstration message appears on the display.

Press **[DISP]** to change to regular mode.



←←← Scrolling...

Note:

- To display the message again, press and hold **[SOURCE]** for more than 4 seconds when turning power on.

Source

Press **[SOURCE]** to change the source.

■ CQ-C3400W

Radio (→ Page 12)



CD Player (→ Page 15)



CD Changer (*2)



(→ Page 20)

MP3/WMA Player (*1)



(→ Page 16)

■ CQ-C3300W

Radio (→ Page 12)



CD Player (→ Page 15)



CD Changer (*2)



(→ Page 20)

MP3/WMA Player (*1)



(→ Page 16)

■ CQ-C3100W

Radio (→ Page 12)



CD Player (→ Page 15)



CD Changer (*2)

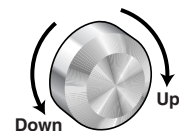


(→ Page 20)

(*1) When a MP3/WMA data disc is in the player. (→ Page 16)

(*2) When an optional CD changer is connected. (→ Page 20)

Volume



VOL 18
Default: 18
Setting range: 0 to 40

Note:

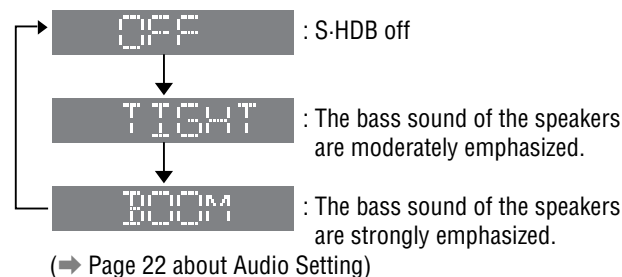
- The volume level can be set independently for each source. (For radio, one volume setting for AM, one volume setting for all FMs)

S-HDB (Super High Definition Bass)

With music genres like rock music, the bass-sound will be more powerful.

Default: S-HDB OFF

Press **[S-HDB]**.



Mute/Attenuation

ON : Press **[MUTE]**.

OFF : Press **[MUTE]** again.

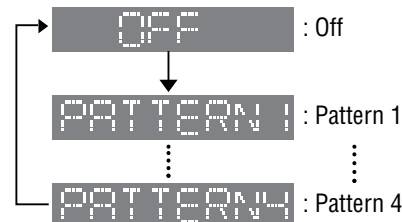
You can select mute or attenuation. (→ Page 24)

Level Meter Display Pattern

Default: Pattern 1

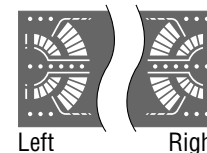
Variety: 4 types + OFF

Press **[LEVEL]**.



Note:

- The level meter operates only symmetrically on the right and left sides with the music.



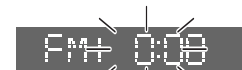
Clock Setting

The 24-hour system is used for the clock.

- Switch on the power of the unit.
- Press **[DISP]** (Display).
"ADJUST" is displayed when the clock is not adjusted.



- Press and hold **[DISP]** for more than 2 seconds.



- Adjust the hour.
[>]: put forward hour.
[<]: put back hour.



- Press **[DISP]**.



- Adjust the minute.
[>]: put forward minute.
[<]: put back minute.

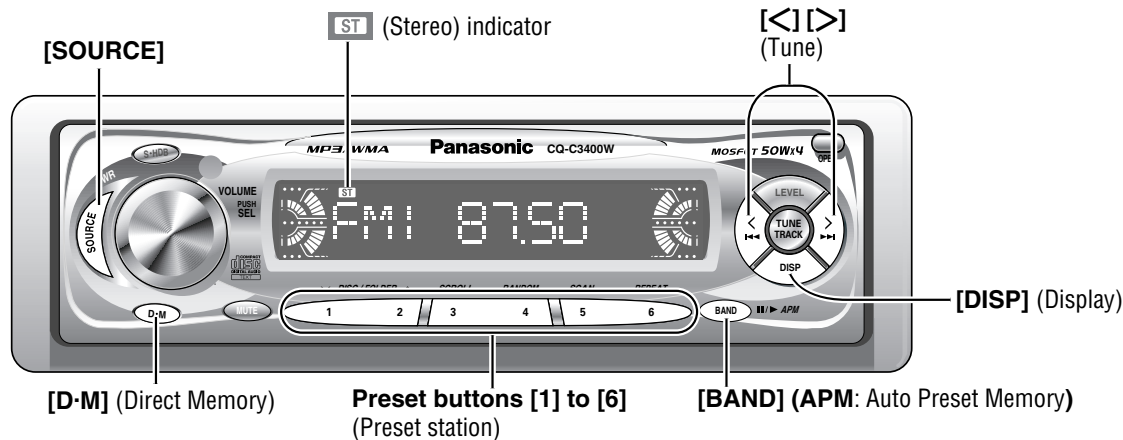


- Press **[DISP]**.



Note:

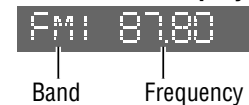
- Press and hold [**<**] or [**>**] to change the numbers rapidly.



1 Radio Mode

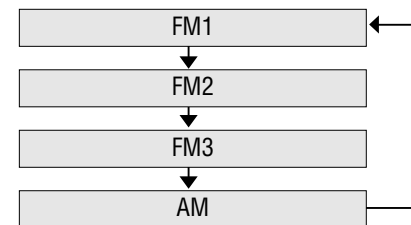
Press **[SOURCE]** to select the radio mode.

Radio Mode Display



2 Band

Press **[BAND]**.



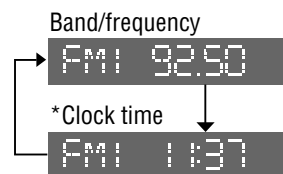
3 Tuning

[>]: Higher frequency
[<]: Lower frequency

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

Display Change

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



* "ADJUST" is displayed when the clock is not adjusted.
(⇒ Page 11 for clock setting)

Direct Memory

Your favorite FM/AM radio station can be memorized in the D-M button and you can call back the station just by pressing the button whatever the current sound source is, even if the power is off.

Default : FM 87.50 MHz

Direct Memory Calling

Press **[D-M]** (Direct Memory).
The direct memory station is received.

Direct Memory Setting

- 1 Select a band and frequency.
- 2 Press and hold **[D-M]** (Direct Memory) for more than 2 seconds.

Note:

- New stations overwrite existing saved stations after following this procedure.

Station Preset

Up to 6 stations can be stored in each of the FM1, FM2, FM3 and AM band selections.

Caution:

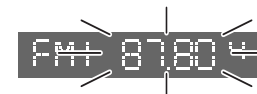
- To ensure safety, never attempt to preset stations while you are driving.

Auto Preset Memory (APM)

Automatically save stations with good reception in the pre-set memory.

- 1 Select a band. (⇒ Previous page)
- 2 Press and hold **[BAND]** (APM: Auto Preset Memory) for more than 2 seconds.

The 6 stations with good reception will be automatically saved in the memory under preset number **1** to **6**.
Once set, the preset stations are sequentially scanned for 5 seconds each. (scanning)



Note:

- To stop the scanning, press one of the buttons from **[1]** to **[6]**.

Manual Preset Memory

Manually save a station in preset memory.

- 1 Select a band and frequency. (⇒ Previous page)
- 2 Press and hold one of the preset buttons from **[1]** to **[6]** until the display blinks once.



Note:

- New stations overwrite existing saved stations after following this procedure.

Preset Station Calling

- 1 Select a band. (⇒ Previous page)
- 2 Press one of the preset button from **[1]** to **[6]**.

CD and MP3/WMA

Caution:

- This unit does not support 8 cm discs.
- Do not use irregularly shaped discs.
- Do not use discs that have a seal or label attached.
- Be sure to close the front panel while CD playback.
- To avoid damaging the front panel, do not push it down or place objects on it while it is open.
- Do not pinch your finger or hand in the front panel.
- Do not insert foreign objects into the disc slot.

Note:

- Refer to the section on “Notes on MP3/WMA” (→ Page 18) and “Notes on CD-Rs/RWs” (→ Page 34).
- A disc which has both CD-DA data and MP3/WMA data on it may not be reproduced normally (For example, it may be reproduced without sound).

Available Discs

■ CQ-C3400/C3300W

CD-DA



MP3/WMA



■ CQ-C3100W

CD-DA

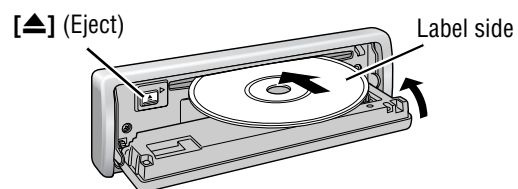


Disc Insert

① Press [OPEN].



② Insert a disc.



Note:

- Do not insert a disc when indicator lights because a disc is already loaded.

Disc Indicator



- It may take some time to start playing.

③ Close the front panel manually.

④ Playback will start automatically after recognizing the data of the loading disc.

■ CQ-C3400W
CQ-C3300W



■ CQ-C3100W



or



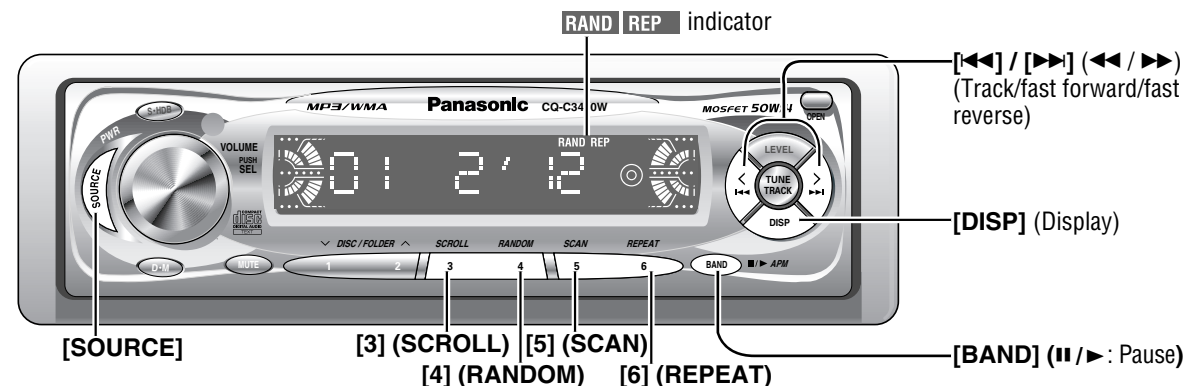
(→ Page 16 about MP3/WMA Player)

Disc Eject

- ① Press [OPEN].
- ② Press [] and take the disc.
- ③ Close the front panel manually.

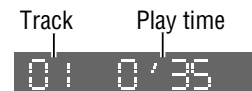
CD Player

- Do not watch the scroll display while driving. (Only for CQ-C3400/C3300W)



When CD is in the player

Press [SOURCE] to select the CD player mode and playback starts.

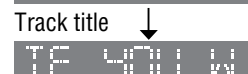
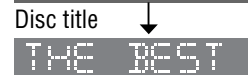


Display Change

Press [DISP] (Display).

■ CQ-C3400W
CQ-C3300W

Track/play time



■ CQ-C3100W

Track/play time



*“ADJUST” is displayed when the clock is not adjusted. (→ Page 11 for clock setting)

Note:

- “NO TITLE” is displayed when there is no information on the disc.
- Press [3] (SCROLL) to have another circle scroll while a title is displayed. (Only for CQ-C3400/C3300W)

Track Selection

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

Fast Forward/Fast Reverse

Press and hold
[▶▶] (▶▶): Fast forward
[◀◀] (◀◀): Fast reverse
Release to resume normal playback.

Pause (II / ►)

Press [BAND] (II / ►).
Press [BAND] (II / ►) again to cancel.

Random Play

All the available tracks are played in a random sequence.
Press [4] (RANDOM). 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). lights.
Press [6] (REPEAT) again to cancel.

Direct Track Selection

(Only for remote control of CQ-C3400/C3300W)

Example: Track number 10

- ① Press [#].
- ② Press [1] and [0].
- ③ Press [BAND] (SET).

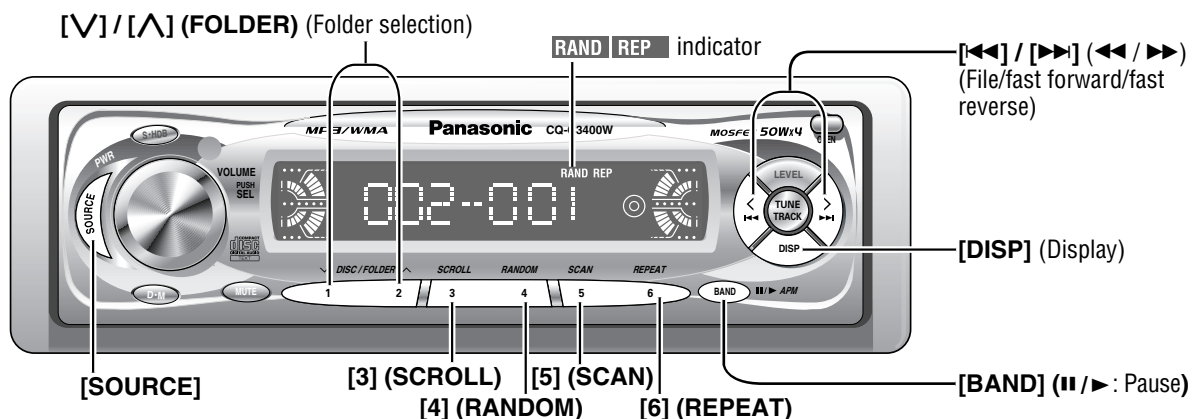


Note:

- To suspend direct track selection, press [#] or [DISP].
- Random, Scan and Repeat plays are canceled once [#] is pressed.

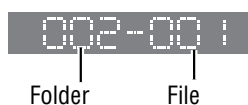
MP3/WMA Player (Only for CQ-C3400/C3300W)

- CQ-C3100W can not play MP3/WMA files.
- Do not watch the scroll display while driving.



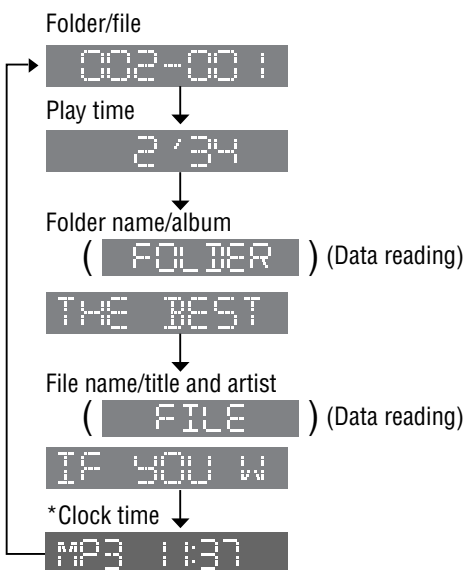
When CD is in the player

Press **[SOURCE]** to select the MP3/WMA player mode and playback starts.



Display Change

Press **[DISP]** (Display).



* "ADJUST" is displayed when the clock is not adjusted. (→ Page 11 for clock setting)

Note:

- "NO NAME" is displayed when there is no information on the disc.
- Press **[3] (SCROLL)** to have an another circle scroll while a title is displayed.

ID3/WMA Tag Setting

Press and hold **[3] (SCROLL)** for more than 2 seconds.



When a folder name is displayed:

TAG ON: The album title is displayed.
TAG OFF: The folder name is displayed.

When a file name is displayed:

TAG ON: The title/artist name is displayed.
TAG OFF: The file name is displayed.

Folder Selection

[^]: Next folder
[v]: Previous folder

File Selection

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

Fast Forward/Fast Reverse

Press and hold
[▶▶] (▶▶): Fast forward
[◀◀] (◀◀): Fast reverse
Release to resume normal playback.

Pause (II / ►)

Press **[BAND] (II / ►)**.
Press **[BAND] (II / ►)** again to cancel.

Random Play **[RAND]**

All the available files are played in a random sequence.

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

Folder Random Play **[RAND]**

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

Press and hold **[4] (RANDOM)** for more than 2 seconds.
[RAND] blinks.
Press and hold **[4] (RANDOM)** again for more than 2 seconds to cancel.

Scan Play

The first 10 seconds of each files 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 on each folder is played in sequence.

Press and hold **[5] (SCAN)** for more than 2 seconds.



Press and hold **[5] (SCAN)** again for more than 2 seconds to cancel.

Repeat Play **[REP]**

The current file is repeated.

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

Folder Repeat Play **[REP]**

The current folder is repeated.

Press and hold **[6] (REPEAT)** for more than 2 seconds.
[REP] blinks.
Press and hold **[6] (REPEAT)** again for more than 2 seconds to cancel.

Direct Selection

(Only for remote control)

Direct Folder Selection

Example: Folder number 05

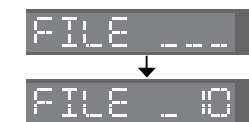
- 1 Press **[#]** twice.
- 2 Press **[5]**.
- 3 Press **[BAND] (SET)**.



Direct File Selection

Example: File number 10

- 1 Press **[#]**.
- 2 Press **[1]** and **[0]**.
- 3 Press **[BAND] (SET)**.



Note:

- To suspend direct folder/file selection, press **[DISP]**.
- Random, Folder Random, Scan, Folder Scan, Repeat and Folder Repeat plays are canceled once **[#]** is pressed.

MP3/WMA Player (Only for CQ-C3400/C3300W) (continued)

Notes on MP3/WMA

What is MP3/WMA?

MP3 (MPEG Audio Layer-3) and WMA (Windows Media™ Audio) are the compression formats of digital audio. The former is developed by MPEG (Motion Picture Experts Group), and the latter is developed by Microsoft Corporation. Using these compression formats, you can record the contents of about 10 music CDs on a single CD media (This figures refer to data recorded on a 650 MB CD-R or CD-RW at a fixed bit rate of 128 kbps and a sampling frequency of 44.1 kHz).

Note:

- MP3/WMA encoding and writing software is not supplied with this unit.
- CD writing software is not supplied with this unit.

Points to remember when making MP3/WMA files

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.

MP3

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

WMA

- It is recommended to set the bit rate to “64 kbps or more” and “fixed”.
- Do not set the copy protect attribute on the WMA file to enable this unit to play back.
- WMA Version 9 is supported. However, the new functions in Version 9 (WMA pro, Loss-less and the combination of 64 kbps and 45 kHz) are excluded.

Caution: Never assign the “.mp3”, or “.wma” file name extension to a file that is not in the MP3/WMA format. This may not only produce noise from the speaker damage, but also damage your hearing.

Display Information

Displayed items

CD-TEXT

- Disc title
- Track title

MP3/WMA

- Folder name
- File name

MP3 (ID3 tag)

- Album
- Title and Artist

WMA (WMA tag)

- Album
- Title and Artist

Displayable characters

- Displayable length of file name/folder name: within 128 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 and special characters in each language can be displayed.

ASCII character set

A to Z, a to z, digits 0 to 9, and the following symbols:
(space) ! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~

Special characters

À Á Â Ã Ä å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö ÷ ø ù Ú Û Ü Ý Þ ß à á â ã

Ä ä

Ò Ó Ô Õ Ö ÷ ø ù Ú Û Ü Ý Þ ß

Ù Ú Û Ü Ý Þ ß

Note:

- With some software in which MP3/WMA format files have been encoded, the character information may not be displayed properly.
- Undisplayable characters and symbols will be converted into an asterisk (*).

Recording MP3/WMA files on a CD-media

- You are recommended to minimize the chances of making a disc that contains both CD-DA files and MP3/WMA files.
- If CD-DA files are on the same disc as MP3 or WMA files, the songs may not play in the intended order, or some songs may not play at all.
- When storing MP3 data and WMA data on the same disc, use different folders for each data.
- Do not record files other than MP3/WMA files and unnecessary folder on a disc.
- The name of MP3/WMA file should be added by rules as shown in the following descriptions and also comply with the rules of each file system.
- You may encounter trouble in playing MP3/WMA files or displaying the information of MP3/WMA files recorded with certain writing software or CD recorders.
- The file extension “.mp3” or “.wma” should be assigned to each file depending on the file format.
- This unit does not have the play list function.
- Although Multi-session recording is supported, the use of Disc-at-Once is recommended.

Supported file systems

ISO 9660 Level 1/Level 2, Apple Extension to ISO 9660, Joliet, Romeo

Note:

- Apple HFS, UDF 1.50, Mix CD, CD Extra are not supported.

Compression formats (Recommendation: “Points to remember when making MP3/WMA files” on the previous page)

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
Windows Media Audio Ver. 2, 8, 9	64 k-192 kbps	No	32, 44.1, 48 kHz

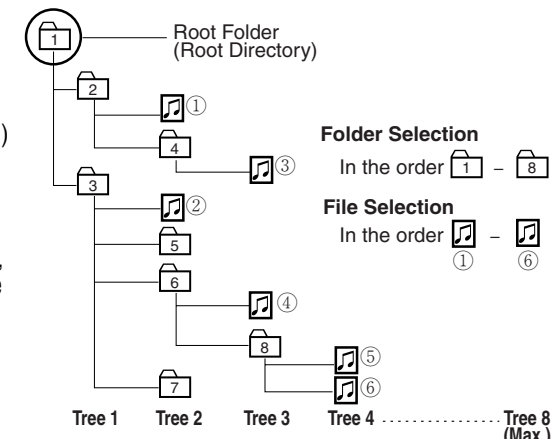
Folder selection order/file playback order

Maximum number of files/folders

- Maximum number of files: 999
- Maximum number of files in one folder: 255
- Maximum depth of trees: 8
- Maximum number of folders: 255 (Root folder is included.)

Note:

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



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Copyright

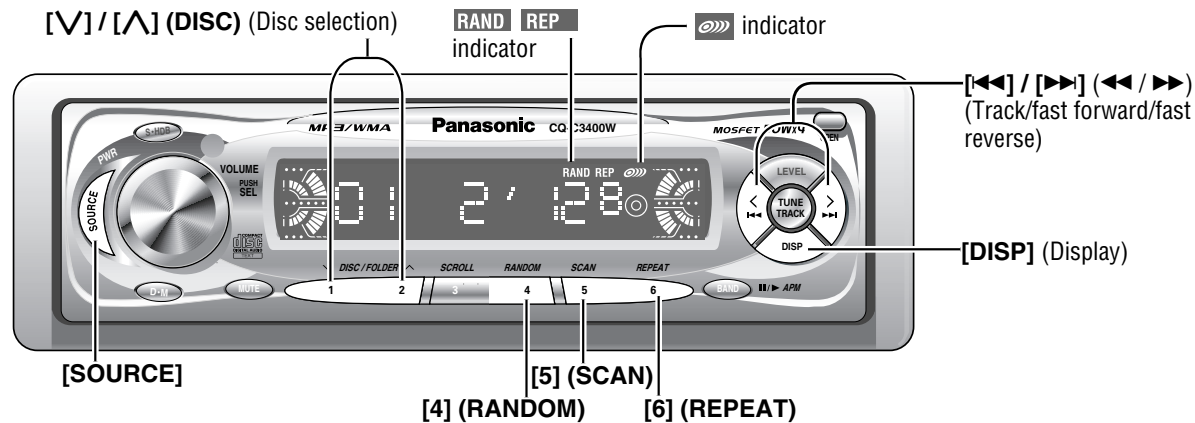
It is prohibited by copyright laws to copy, distribute and deliver copyrighted materials such as music without the approval of copyright holder except enjoying yourself personally.

No warranty

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

CD Changer Control (Only for CQ-C3400/C3100W)

- CD changer functions are designed for optional Panasonic CD changer unit.
- Do not watch the scroll display while driving.



CD Changer Mode

Preparation:

- Connect the CD changer, and load a magazine (CDs).

Press **[SOURCE]** to select the CD changer mode and playback starts.

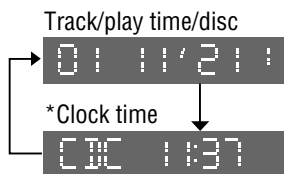


Note:

- Load a magazine with CDs when "NO DISC" is displayed.
- The power will be turned on automatically when a magazine is loaded.

Display Change

Press **[DISP]** (Display).



* "ADJUST" is displayed when the clock is not adjusted. (→ Page 11 for clock setting)

Disc Selection

- [^]: Next disc
- [v]: Previous disc

Track Selection

- [Right Arrow]: Next track
- [Left Arrow]: Beginning of the current track
For the previous track, press twice.

Fast Forward/Fast Reverse

- Press and hold [Right Arrow] (Fast forward)
- [Left Arrow] (Fast reverse)
- Release to resume the playback.

Note:

- Trouble may occur while playing CD-Rs. Refer to the section on "Notes on CD, CD Media (CD-R, CD-RW, CD-ROM)" (→ Page 34)
- This unit does **not support** the following through the CD changer.
 - CD-RW playback. (except when CX-DP880 is connected)
 - MP3/WMA playback.
- Pausing does not function in the CD changer mode.

Random Play **RAND**

All the available tracks are played in a random sequence.

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

Disc Random Play **RAND**

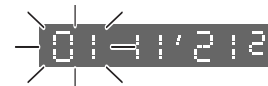
All the available tracks on the current disc are played in a random sequence.

- Press and hold **[4] (RANDOM)** for more than 2 seconds. **RAND** blinks.
- Press and hold **[4] (RANDOM)** again for more than 2 seconds to cancel.

Scan Play

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

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



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

Disc Scan Play

From the next disc, the first 10 seconds of the first track of all the discs is played in sequence.

- Press and hold **[5] (SCAN)** for more than 2 seconds.



Press and hold **[5] (SCAN)** again for more than 2 seconds to cancel.

Repeat Play **REP**

The current track is repeated.

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

Disc Repeat Play **REP**

The current disc is repeated.

- Press and hold **[6] (REPEAT)** for more than 2 seconds. **REP** blinks.
- Press and hold **[6] (REPEAT)** again for more than 2 seconds to cancel.

Direct Disc Selection

(Only for remote control of CQ-C3400W)

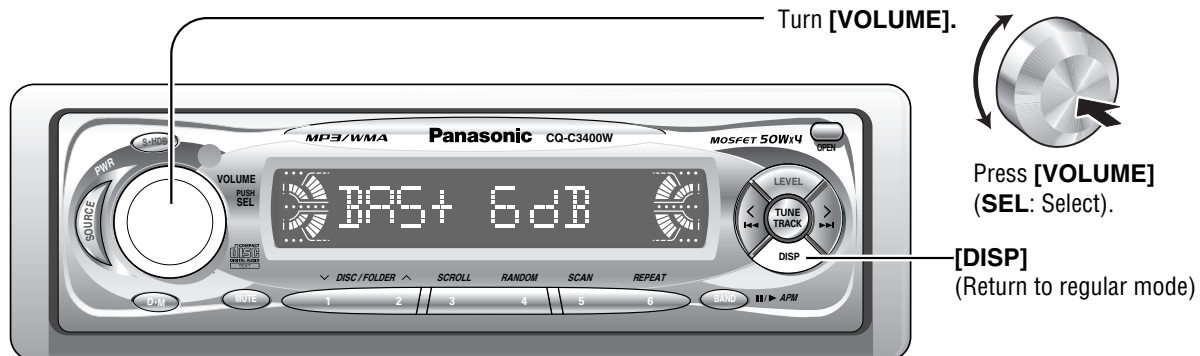
Example: Disc number 5

- 1 Press **[#]**.
- 2 Press **[5]**.
- 3 Press **[BAND] (SET)**.



Note:

- To suspend direct disc selection, press **[#]** or **[DISP]**.
- Random, Scan and Repeat plays are canceled once **[#]** is pressed.



Note:

- Press [DISP] to return to the regular mode.
- If no operation takes place for more than 7 seconds in audio setting (2 seconds in the volume setting), the display returns to regular mode.

Audio Setting

Volume
Default: 18
Setting range: 0 to 40

Bass/Treble
You can adjust the bass and treble sound.
Default: BAS (bass) 0 dB
TRE (treble) 0 dB
Setting range: -12 dB to +12 dB (by 2 dB)

Balance/Fader
You can adjust the sound level among the right, left, front and rear speakers.
Default: BAL (balance) CNT (center)
FAD (fader) CNT (center)
Setting range: 15 levels each

Press [VOLUME] (SEL: Select) to open the menu.
VOL 18

Press [VOLUME] (SEL: Select).
BASS

Press [VOLUME] (SEL: Select).
TREBLE

Press [VOLUME] (SEL: Select).
BALANCE

Press [VOLUME] (SEL: Select).
FADER

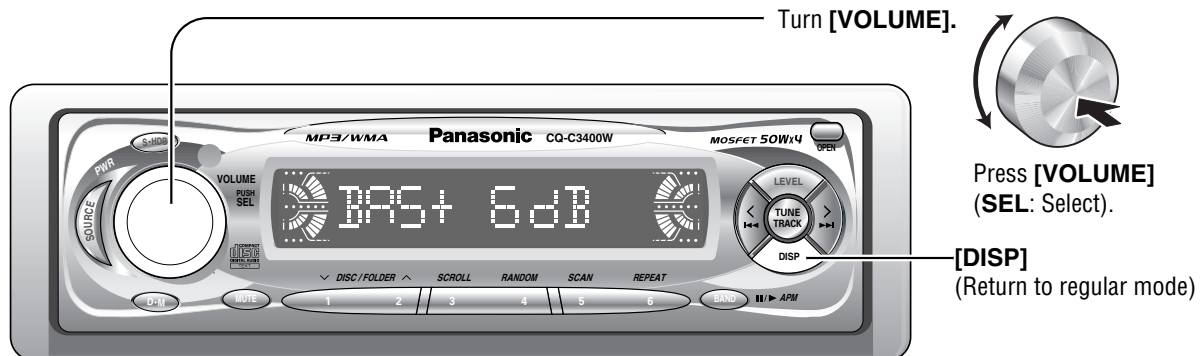
Turn [VOLUME].
① : Up
② : Down
VOL 18

Turn [VOLUME].
① : Increased
② : Decreased
BAS+ 6dB

Turn [VOLUME].
① : Increased
② : Decreased
TRE+ 6dB

Turn [VOLUME].
① : Right enhanced
② : Left enhanced
BAL L IS

Turn [VOLUME].
① : Front enhanced
② : Rear enhanced
FAD F IS



- Note:**
- Press [DISP] to return to the regular mode.
 - If no operation takes place for more than 7 seconds in audio or function setting (2 seconds in the volume setting), the display returns to regular mode.

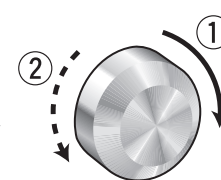
Audio Setting (continued)

Sub-Woofers Level (Only for CQ-C3400W)

Default: 0 dB
Setting range: MUTE (-∞), -6 dB to +6 dB (in 2 dB step)

Press [VOLUME] (SEL: Select).

SUB-W



Turn [VOLUME].

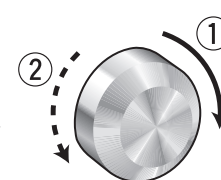
- ① : Increased
- ② : Decreased

Mute/Attenuation

You can select mute or attenuation when [MUTE] is pressed.
(→ Page 11)
Default: MUTE

Press [VOLUME] (SEL: Select).

MUTE KEY



Turn [VOLUME].

- ① **KEY ATT** : Decrease 10 steps (Attenuation)
- ② **KEY MUTE** : No sound (Mute)

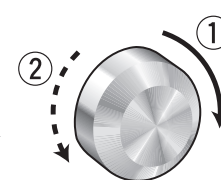
Function Setting

Security Function

Allows you to activate the anti-theft function when leaving your car.
Default: ON

Press and hold [VOLUME] (SEL: Select) for more than 2 seconds to open the menu.

SECURITY



Turn [VOLUME].

- ① **SLEEP ON** : Security function is activated.
- ② **SLEEP OFF** : Security function is not activated.

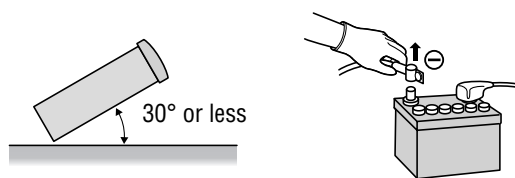
Security Function

- When the power of this unit is turned OFF...
- Security message will be displayed.
 - The panel removal alarm will be active. (→ Page 29)
- When the front panel is removed...
- The security indicator blinks. (→ Page 29)

Installation

Preparation

- Before installation, check the radio operation with antenna and speakers.
- Disconnect the cable from the negative (-) battery terminal (see caution below).
- Unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.
- Remove Mounting Collar ① and Trim Plate ④ from the main unit temporarily, which are already mounted at shipment.



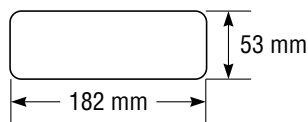
Caution:

- Do not disconnect the battery terminals of a car with trip or navigational computer since all user settings stored in memory will be lost. Instead take extra care with installing the unit to prevent shorts.

Dashboard Installation

Installation Opening

The unit can be installed in any dashboard having an opening as shown at right. The dashboard should be 4.5 mm - 6 mm thick in order to be able to support the unit.



Installation Precautions

This product should be installed by a professional installer, if possible.

In case of difficulty, please consult the shop where you purchased the product.

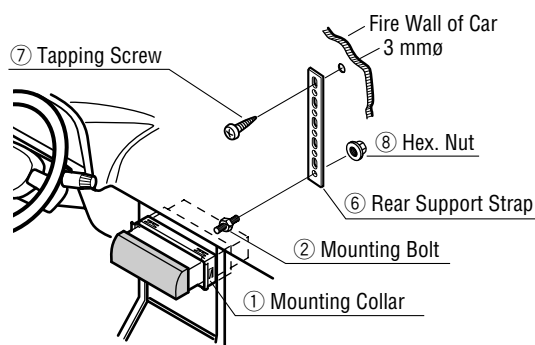
1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.
2. Follow the electrical connections carefully (→ Page 30-32). Failure to do so may result in damage to the unit.
3. Connect the power lead (red) after all other connections are made.
4. Be sure to connect the battery lead (yellow) to the positive terminal (+) of the battery or fuse block (BAT) terminal.
5. Insulate all exposed wires to prevent short circuiting.
6. Secure all loose wires after installing the unit.
7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

Supplied Hardware

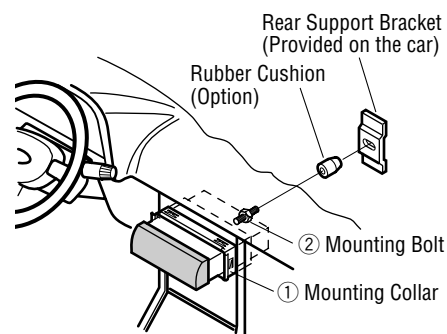
No.	Item	Diagram	Q'ty
①	Mounting Collar		1
②	Mounting Bolt (5 mmø)		1
③	Power Connector		1
④	Trim Plate		1
⑤	Lock Cancel Plate		2
⑥	Rear Support Strap		1
⑦	Tapping Screw (5 mmø x 16 mm)		1
⑧	Hex. Nut (5 mmø)		1

Methods for Fixing the Rear of the Unit.

(a) Using the Rear Support Strap ⑥.



(b) Using the Rubber Cushion (Option)



Caution:

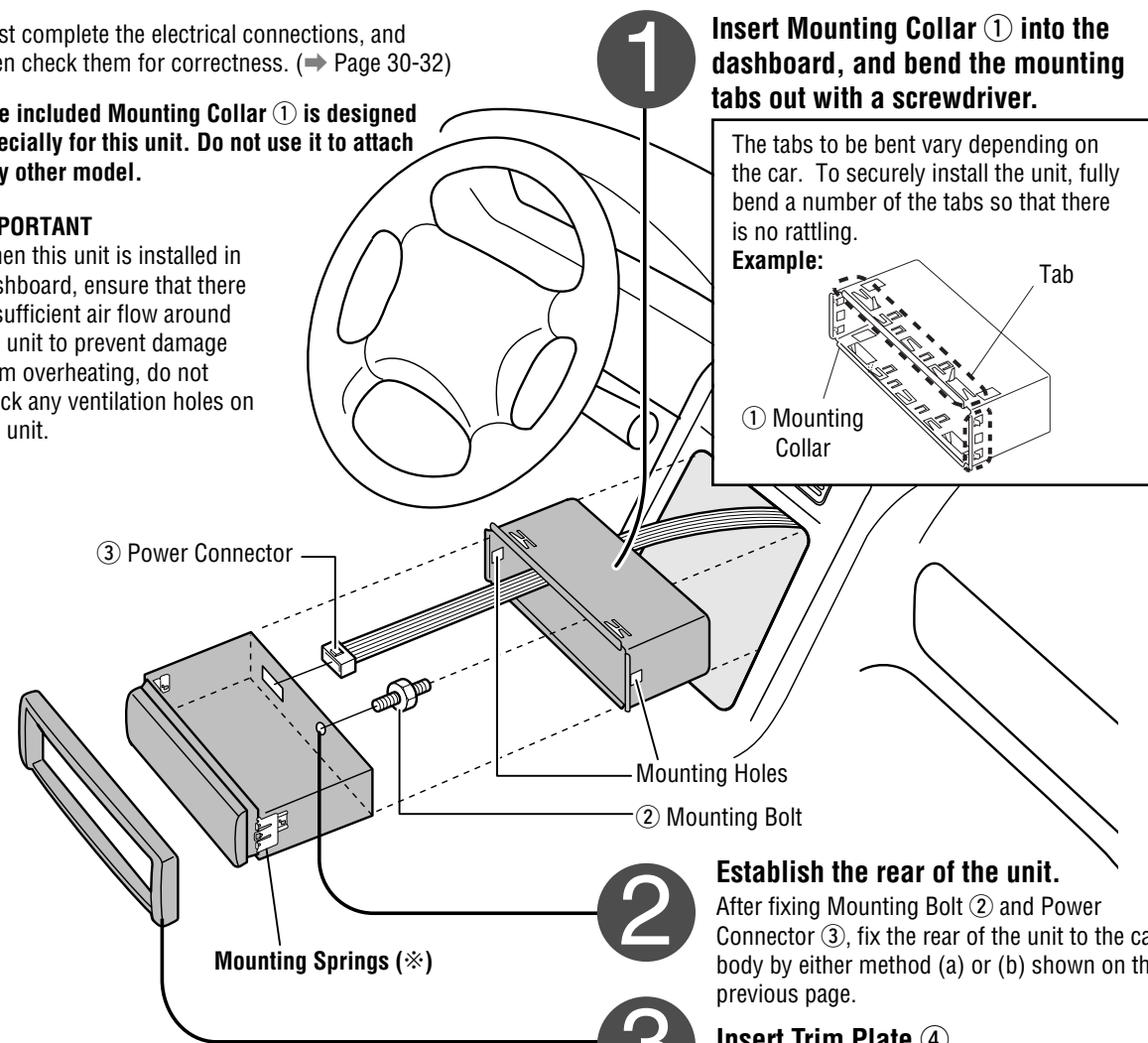
- We strongly recommend that you wear gloves for installation work to protect yourself from injuries.
- When bending the mounting tab of the mounting collar with a screwdriver, be careful not to injure your hands and fingers.

First complete the electrical connections, and then check them for correctness. (→ Page 30-32)

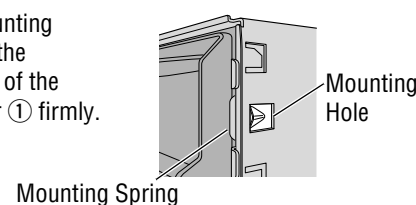
The included Mounting Collar ① is designed specially for this unit. Do not use it to attach any other model.

IMPORTANT

When this unit is installed in dashboard, ensure that there is sufficient air flow around the unit to prevent damage from overheating, do not block any ventilation holes on the unit.



Engage the Mounting Springs (*) in the mounting holes of the Mounting Collar ① firmly.



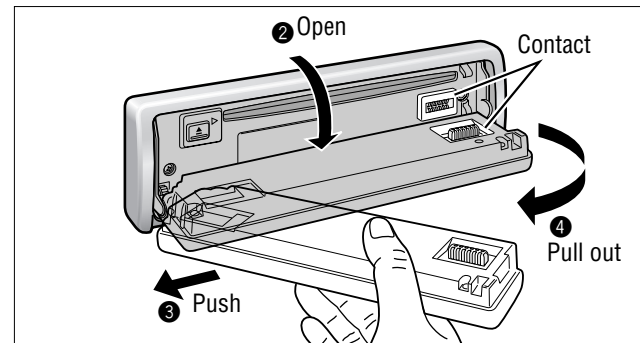
Installation (continued)

To Remove the Unit

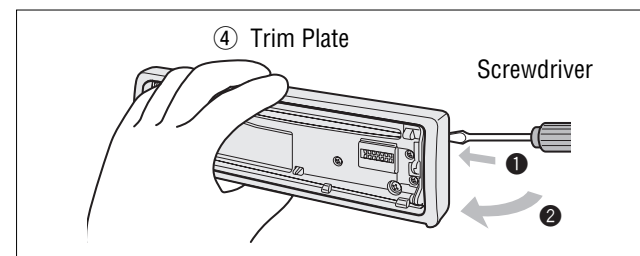
- 1 Switch off the power of the unit.
- 2 Press [OPEN]. The removable face plate will be opened.



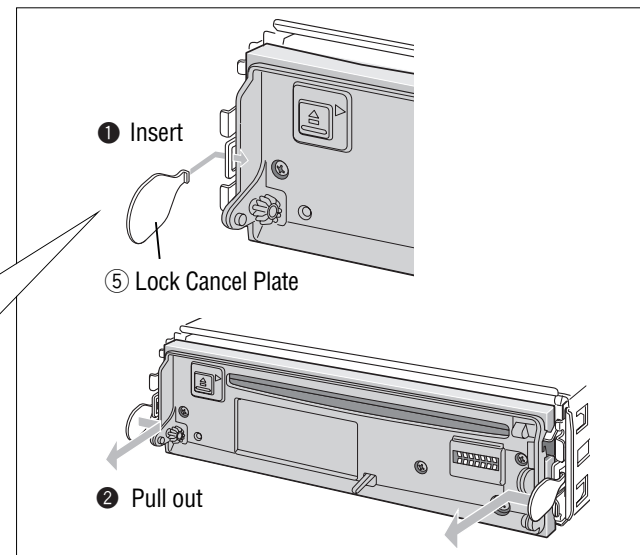
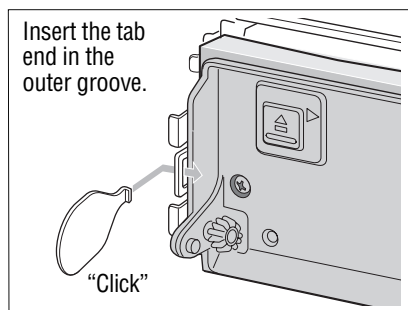
- 3 Push the face plate to either the right or left.
- 4 Pull it out toward you.



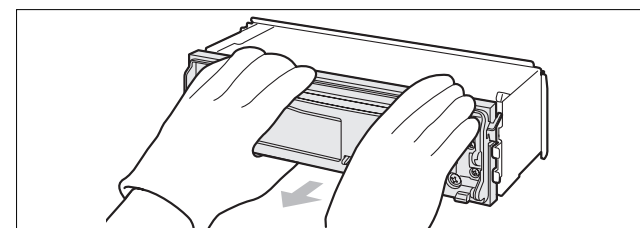
- 2 Remove the trim plate ④ with a screwdriver.



- 3 Pull out the unit while pushing down the lock lever with the lock cancel plate ⑤.



- 4 Remove the unit pulling with both hands.



Caution:

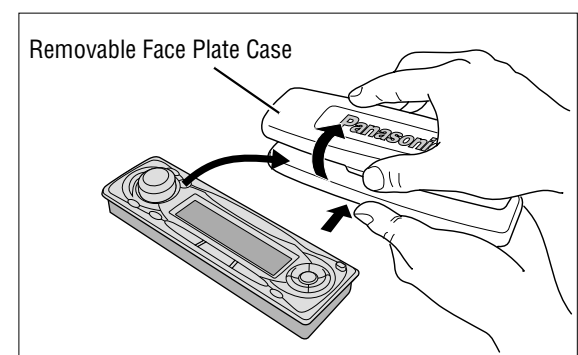
- Do not touch the contacts on the face plate or on the main unit, since this may result in poor electrical contacts.
- If dirt or other foreign substances get on the contacts, wipe them off with clean and dry cloth.

Anti-Theft System

This unit is equipped with a removable face plate. Removing this face plate makes the radio totally inoperable.

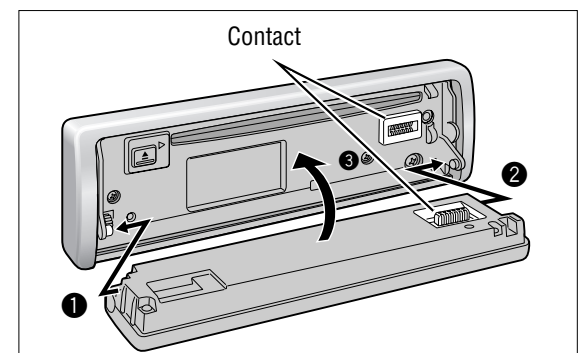
Place Removable Face Plate into Case

- 1 Switch off the power of the unit.
- 2 Remove the removable face plate. (→ Previous page)
- 3 Gently press the bottom of the case and open the cover. Place the face plate into the case and take it with you when you leave the car.



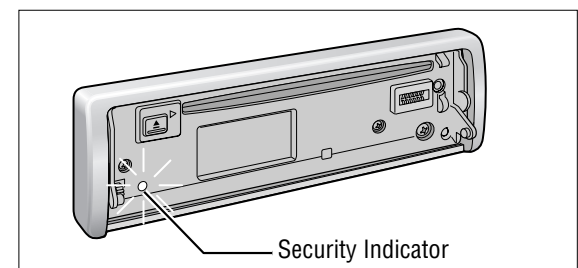
Install Removable Face Plate

- 1 Fit the face plate with its left hole on the left pins provided on the main unit.
- 2 Fit the other hold on the other pin applying slight pressure.
- 3 Move the face plate up and down a few times to make sure it is secure. Then close the front panel and press down the right side of the face plate until it clicks into plate.



Security Indicator

The security indicator blinks when the removable face plate is removed from the unit. This function is activated when the Security Function is ON. (→ Page 24)



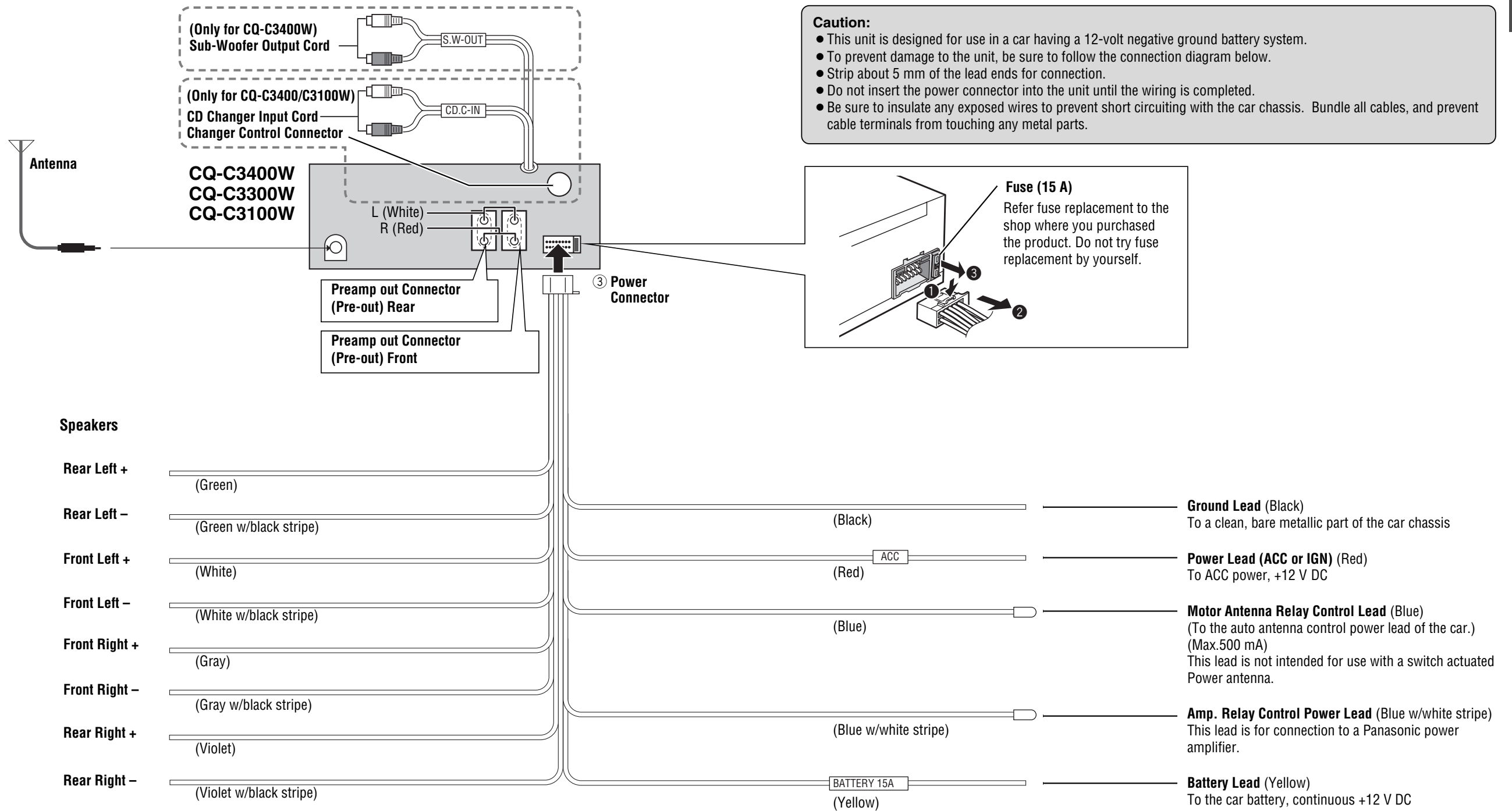
Panel Removal Alarm

This alarm sounds to warn you not to forget to remove the panel before leaving your car. This function is activated when the Security Function is ON. (→ Page 24)

Caution:

- 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 level.
- 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 get on the contacts, wipe them off with a clean and dry cloth.
- To avoid damaging the front panel, do not push it down or place objects on it while it is open.

Cable Wiring Diagram

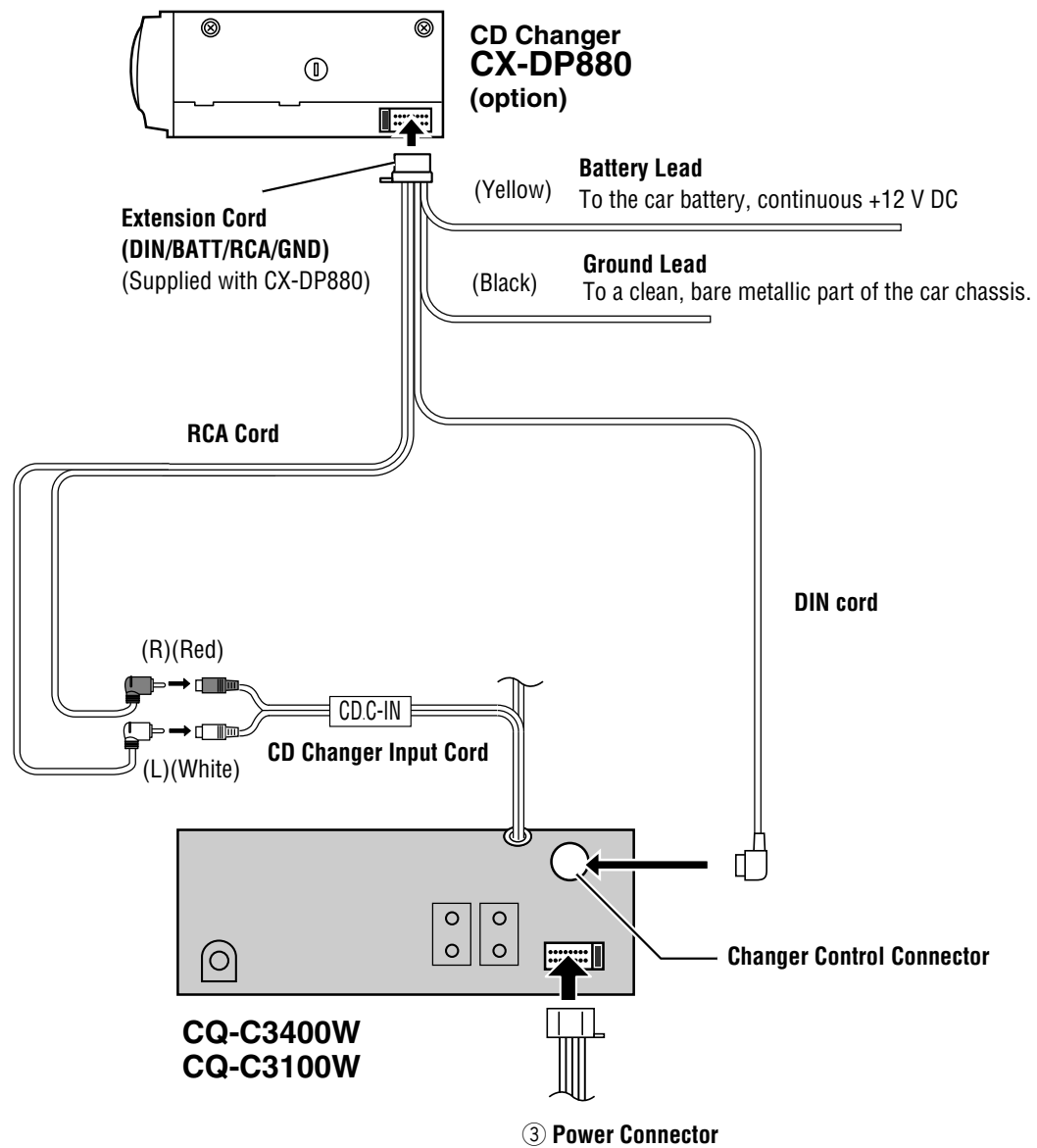


Electrical Connections (continued)

Connection with a CD Changer (CX-DP880)

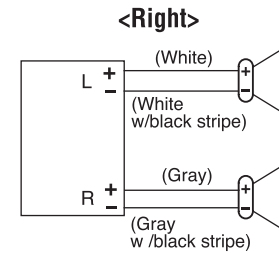
(Only for CQ-C3400/3100W)

- Only CQ-C3400W and CQ-C3100W can be connected to an optional CD changer (CX-DP880, CX-DP88) and optional extension cord.
- For connection to a CD changer, refer to the operating instructions of corresponding device.
- For details, consult the shop where you purchased this product.



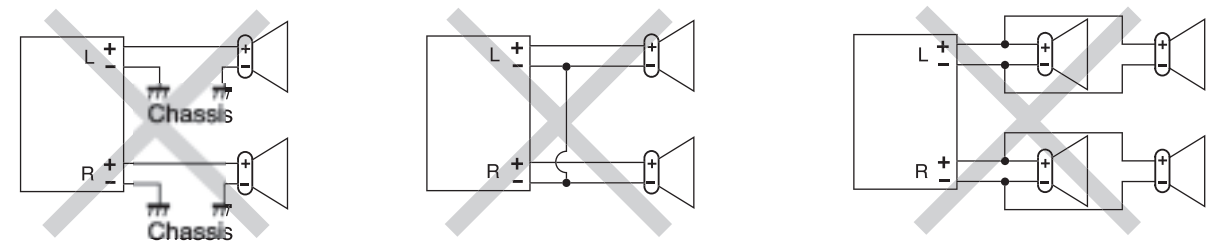
Speaker Connections

Caution: Please follow the instructions given below. Failure to do so will cause damage to the unit and speakers.



- Use ungrounded speaker only.
- The maximum speaker input should be 50 W or more. (If used with the optional power amplifier, the speaker input should be higher than the maximum amplifier output.)
- The speaker impedance should be 4 - 8 Ω .
- This unit uses the BTCL circuit, so each speaker should be connected separately using parallel vinyl insulated cords.
- The speaker cords and the power amplifier unit should be kept away (about 30 cm apart) from the antenna and antenna extension cord.

<Wrong>



- Never connect the speaker cord to the body of the car.
- Do not use a 3-wire type speaker system having a common earth lead.
- Do not connect more than one speaker to one set of speaker leads. (except for connecting to a tweeter)

Fuse

Use fuses of the same specified rating (15 A). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the unit.
If the replacement fuse fails, consult the shop where you purchased this product.

Maintenance

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

Notes on Discs

Notes on CD/CD Media (CD-R, CD-RW, CD-ROM)

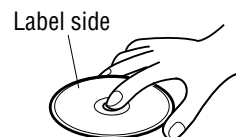
If you use commercial CDs, they must have either of these labels shown at right.



(Only for CQ-C3400/C3300W)

How to hold the disc

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



Do not use irregularly shaped discs.

Do not leave discs in the following places:

- Direct sunlight
- Near car heaters
- Dirty, dusty and damp areas
- Seats and dashboards



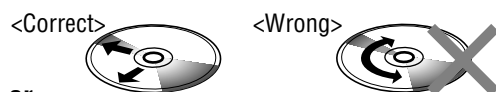
Do not use irregularly shaped discs.

Disc cleaning

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

Do not attach any seals or labels to your discs.

Do not write anything on the disc label with a pointed pen or hard-point pen.



Notes on CD-Rs/RWs

- You may have trouble playing back some CD-R/RW discs recorded on CD recorders (CD-R/RW drives), either due to their recording characteristics or dirt, fingerprints, scratches, etc. on the disc surface.
- CD-R/RW discs are less resistant to high temperatures and high humidity than ordinary music CDs. Leaving them inside a car for extended periods may damage and make playback impossible.
- 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 data or MP3/WMA data (Only for CQ-C3400/C3300W).
- Be sure to observe the instructions of CD-R/RW disc for handling it.

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 consult the shop where you purchased the product. The product should be serviced only by qualified personnel.

Caution:

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

Common

Problem	Possible cause → Possible solution
No power to the unit	<p>The power cord (battery, ACC and ground) is connected in the wrong way. → Check the wiring.</p> <p>Fuse blowout → Eliminate the cause of fuse blowout and replace the fuse with new one. Consult your dealer.</p>
Sound is not generated.	<p>MUTE is set to ON. → Set MUTE to OFF.</p> <p>The wiring of speaker lines are not correct, or a break or poor contact arises. → Check the wiring in accordance with the wiring diagram.</p>
The demonstration screen displayed and no operable	<p>You cannot operate the unit while the demonstration screen appears. → Press [DISP] to end the demonstration screen.</p> <p>If the demonstration screen appears frequently, there is a possibility that poor contact or wrong wiring arises between the battery lead of the unit and the battery cable of the car. (The battery lead should be always powered.) → Check the battery wiring in accordance with the wiring diagram.</p>
Noise	<p>There is an electromagnetic-wave generator such as a cellular phone near the unit or its electrical lines. → 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.</p> <p>The contact of the ground lead is poor. → Make sure that the ground lead is connected to an unpainted part of the chassis securely.</p>
Noise is made in step with engine revolutions.	<p>Alternator noise comes from the car. → Change the wiring position of the ground lead. → Mount a noise filter on the power supply.</p>
Some operations are not executable.	<p>Some operations are not executable in particular modes such as menu mode. → Read the operating instructions carefully and cancel the mode. In case the unit is still out of order, consult your dealer.</p>
No sound from speaker(s)	<p>BALANCE/FADER setting is not appropriate. → Readjust BALANCE/FADER.</p> <p>There is a break, a short circuit, poor contact or wrong wiring regarding the speaker wiring. → Check the speaker wiring.</p>

Common (continued)

Problem	Possible cause → Possible solution
The speaker channels are reversed between right and left.	The speaker wiring is confused between right and left. → Perform the speaker wiring in accordance with the wiring diagram.
The sound field is not clear in the stereo mode. Central sound is not settled.	The plus and minus terminals at right and left channels of speakers are connected reversely. → Perform the speaker wiring in accordance with the wiring diagram.

Radio

Problem	Possible cause → Possible solution
Poor reception or noise	Antenna installation or wiring of antenna cable is faulty. → 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. No power is supplied to the antenna amplifier (when using a film antenna, etc.). → Check the wiring of the antenna battery lead.
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 presetting.
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.

CD

Problem	Possible cause → Possible solution
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 with the rear support strap, etc. The unit is tilted at over 30° in the front-to-end direction. → Make the angle 30° or less.
Disc unejectable	A label is peeled off from the CD in the unit. → Refer repair to the dealer where you purchased the unit. The microcontroller in the unit operates abnormally due to noise or other factors. → Press the reset switch. If there is no reset switch, unplug the power cord and plug it again. In case the unit is still out of order, consult the dealer.

MP3/WMA (Only for CQ-C3400/C3300W)

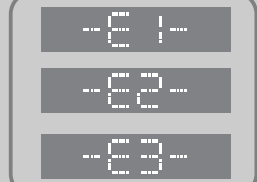



Problem	Possible cause → Possible solution
No playback or disc ejected	The disc has unplayable formatted data. → Refer to the description about MP3/WMA for playable sound data except CD-DA (i.e. music CD). The unit plays back the first track of a MIX mode CD. → Skip the first track.
The CD-R/RWs that are playable on other devices are not playable on this unit.	The playability of some CD-R/RWs may depend on the combination of media, recording software and recorder to be used even if these CD-R/RWs are playable on other devices such as a PC. → Make CD-R/RWs in a different combination of media, recording software and recorder after referring to the description about MP3/WMA.
Sound skipping or noise	There is a flaw or foreign material on the disc. → Remove the foreign material, or use a flawless disc. For MP3/WMA, refer to the description about MP3/WMA.

Note:

- Refer to "Notes on MP3/WMA" (→ Page 18)

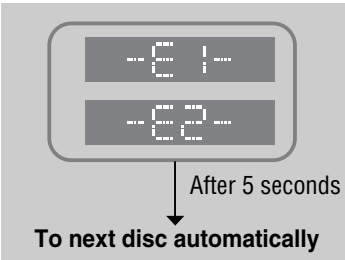




Error Display Messages

CD/MP3/WMA (CQ-C3100W can not play MP3/WMA files.)

Display	Possible cause → Possible solution
 <p>↓ After 5 seconds</p>  <p>↓ After 5 seconds</p> <p>To next track/file automatically</p>	<p>Disc is dirty, or is upside down.</p> <p>Disc has scratches.</p> <p>No operation by some cause.</p> <p>→ Open the panel and press [▲].</p> <ul style="list-style-type: none"> • Check the disc. • Load the disc again.
 <p>↓ After 5 seconds</p> <p>To next track/file automatically</p>	<p>When there is no MP3/WMA files in the specified folder during direct MP3/WMA folder selection.</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.)</p> <p>→ Select a file that the player can read. Confirm the type of data recorded on the disc. Create a new disc if necessary.</p>
 <p>↓ After 5 seconds</p> <p>To next track/file automatically</p>	<p>A WMA file can be copyrighted.</p> <p>→ The file protected by copyright is not playable.</p>

Troubleshooting (continued)

CD Changer (Only for CQ-C3400/C3100W)

Display	Possible cause → Possible solution
	<p>Disc is dirty, or is upside down.</p> <p>Disc has scratches.</p> <p>→ Eject the magazine.</p> <ul style="list-style-type: none"> • Check the disc. • Load the disc again.
	<p>No operation by some cause.</p> <p>→ Eject the magazine. If failure persists, press the reset switch on the CD changer. If normal operation is not restored, call the store where you purchased the unit.</p>
	<p>No disc is in the CD changer (magazine).</p> <p>→ Insert discs into the changer (magazine).</p>
	<p>Disconnected</p> <p>→ Verify the wiring.</p>
	<p>Reading</p> <p>→ Wait for a while.</p>

Note:

- Messages in the action and display sections of the error chart vary with changers. Refer to the operating instructions for the CD changer for details.

Specifications

General		AM Radio	
Power supply	: DC 12 V (11 V - 16 V), Test Voltage 14.4 V, negative Ground	Frequency range	: 531 - 1 602 kHz
Current consumption	: Less than 2.2 A (CD mode, 0.5 W 4-Speaker)	Usable sensitivity	: 29 dB/μV (S/N 20 dB)
Maximum power output	: 50 W x 4 (at 4 Ω)	CD Player	
Power output	: 22 W x 4 (DIN45 324, at 4 Ω)	Sampling frequency	: 8 times oversampling
Speaker impedance	: 4 - 8 Ω	DA converter	: 4 DAC System
Pre-amp output voltage	: 2.5 V (CD mode)	Pick-up type	: Astigma 3-beam
Pre-amp output impedance	: 200 Ω	Light source	: Semiconductor laser
Subwoofer output voltage	: 2.5 V (Only for CQ-C3400W)	Wave length	: 780 nm
Subwoofer output impedance	: 200 Ω (Only for CQ-C3400W)	Frequency response	: 20 Hz - 20 kHz (±1 dB)
Dimensions (W x H x D)	: 178 x 50 x 155 mm	Signal to noise ratio	: 96 dB
Weight	: 1.4 kg	Total harmonic distortion	: 0.01 % (1 kHz)
FM Stereo Radio		Wow and flutter	: Below measurable limits
Frequency range	: 87.5 - 108 MHz	Channel separation	: 75 dB
Usable sensitivity	: 6 dB/μV (S/N 30 dB)		
Stereo separation	: 35 dB (at 1 kHz)		

Note:

- Specifications and design are subject to modification without notice due to improvements.