

Operating Instructions Manuel d'instructions Manual de instrucciones



MP3 WMA

Safety Information

WARNING:

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

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE INCLUDED COMPONENTS.

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.

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

Part 15 of the FCC Rules

FCC Warning:

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

NOTICE:

This product has a fluorescent lamp that contains a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations.

For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <<http://www.eiae.org>>

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 (the normal system in a North American car).

Disc/Front Panel Mechanism

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

The face plate may close automatically depending on the situation. Be careful not to catch your fingers in the plate.

Use Authorized Servicenters

This product is made of precision parts. Do not attempt to disassemble or adjust any parts. Please refer to the Servicenter list including with this product for service assistance.

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.

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




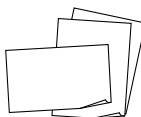
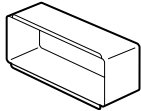
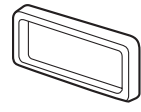
CQ-C9800/C9700U








Removable Full Front MP3 WMA CD Player/Receiver with Full Dot Matrix Display and CD Changer Control

Note:

- Please refer to page 9 for information on differences in each model.

Accessories

Item	Diagram	Q'ty
Remote Control Unit (YEFX9992663)		1
Lithium Battery <CR2025>		1
Instruction kit		
• Operating Instructions (YEFM284204)		1
• Warranty Card, etc.		1 set
Mounting Collar (YEFX0215873)		1
Trim Plate (YEFM05605)		1

Item	Diagram	Q'ty
Screw Kit (YEP0FZ3158)		
• Hex. Nut (5 mmφ)		1
• Tapping Screw (5 mmφ×16 mm)		1
• Mounting Bolt (5 mmφ)		1
• Lock Cancel Plate		2
Rear Support Strap (YEFM04019)		1
Removable Face Plate Case (YEFA131646)		1
Power Connector (YEAJ02871)		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.
- Mounting collar ① and trim plate ⑦ are mounted on the main unit at shipment (page 64).

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

MODEL NUMBER	CQ-C9800U / CQ-C9700U
SERIAL NUMBER	
DATE PURCHASED	
FROM	

Features

Full Digital CD Receiver

The CQ-C9800U/CQ-C9700U uses Radio DSP for digital conversion and processing of FM/AM signals, and a digital amp to provide amplification of the digital data. With this technology, Panasonic achieves full digital processing of radio and CD signals from input to speaker output. This means faithful reproduction of the original sound.

Radio DSP

By digitally converting and processing FM/AM broadcast signals, this greatly reduces adjacent interference and multipath distortion. A radio's IF filter has the job of preventing neighboring broadcast frequencies from interfering with reception of your desired station. Panasonic's Radio DSP uses an advanced algorithm to perform this task digital control. It maintains the optimum balance between noise suppression and sound quality by automatically adjusting the IF filter bandwidth in response to the changing interference characteristics as you drive.

Maximum Power Output

CQ-C9800U 70 W

CQ-C9700U 60 W

Fully Motorized Front Panel

A touch is all it takes to slide the front panel down for access to the disc slot. A three-stage tilt function permits viewing angle to be adjusted to 15, 25 or 35 degrees for optimum display visibility.

Customizable Graphics

You can customize the background (graphic pattern/still image), opening, and ending screens using your own images stored on CD-R/RW. At last, you can create an original display that's all yours (page 54).

SQ (Sound Quality)

You have 6 preset modes (FLAT, POP, ROCK, VOCAL, JAZZ, CLUB). You can customize your settings for these (except FLAT) and save them for instant recall.

SQ9 (9-Band Sound Quality)

Center frequency and level are adjustable in each of 9 bands. This lets you fine tune sound quality for each genre to suit car-interior acoustics and your personal preferences (page 46).

Audio Settings

Dynamic Control (Bass/treble)

This unit uses a special filter to accentuate the feeling of ambiance. This filter serves to bring out the feeling of ambiance embedded in the music and reproduce an expressive sound quality without compromising the sound in the midrange. Further, by setting the bass and treble, the bass and treble can be accentuated so you can create the kind and quality of sound that you really like.

Position setting

You can adjust the timing at which the sound from the speakers reaches you at the position where you are sitting in the car so that you can reproduce the sound field which is tailored to this position.

Subwoofer LPF (Low Pass Filter)

You can select the upper limit frequency of the sound from subwoofer.

HPF (High Pass Filter)

Select the lower limit frequency of the sound from speakers (except subwoofer).

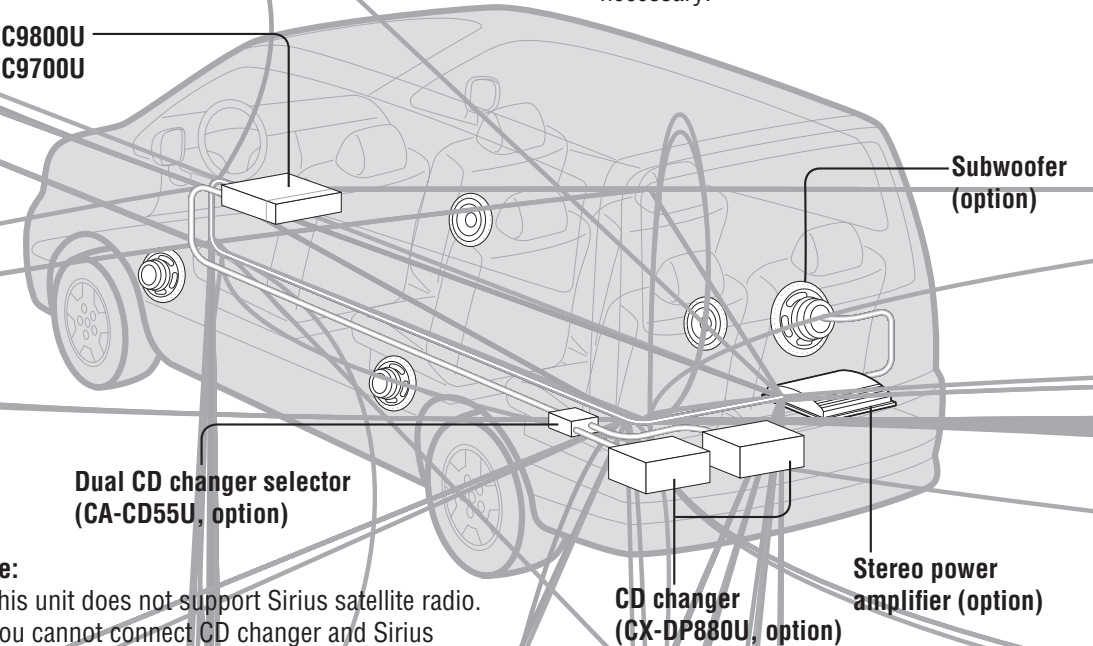
System Upgrade

CD Changer Control

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

- 2 CD changers (option) can be controlled with this unit. To connect 2 CD changers to it, the dual CD changer selector CA-CD55U (option) is necessary.

CQ-C9800U
CQ-C9700U



Note:

- This unit does not support Sirius satellite radio.
- You cannot connect CD changer and Sirius receiver using the dual CD changer selector (CA-CD55U, option).

Before Reading these Instructions

- This operating instruction manual applies to the following models. The differences among these models are mentioned below.
- All illustrations represent model CQ-C9800U unless otherwise specified.

Features	Models	CQ-C9800U	CQ-C9700U
Power output		70 W	60 W



This can only be controlled through the main unit.



This can only be controlled through the remote control unit.

CQ-C9800U

Indicates features applicable to CQ-C9800U only.

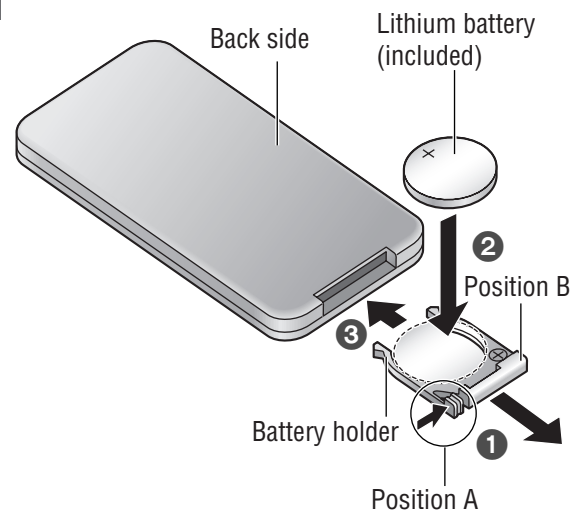
CQ-C9700U

Indicates features applicable to CQ-C9700U only.

Operations with neither mark can be performed either by the main unit or the remote control unit.

Preparation

Remote Control Unit



Battery Installation

- 1 **Remove the battery holder.**
Pull the holder out at position B while pushing position A as indicated.
- 2 **Install the battery on the battery holder.**
- 3 **Insert the battery holder back into its original position.**

Battery Notes

- Battery type: Panasonic lithium battery (CR2025) (included)
- Battery life: Approximately 6 months under normal use (at room temperature)

Caution:

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

- Remove and dispose of an old battery immediately.
- Do not disassemble or short the battery. Do not throw a battery into a fire.
- Keep the battery away from children to avoid the risk of accidents.
- Follow local regulations when disposing of the battery.

Subwoofer

Preparation:

- Connect the subwoofer and the amplifier (option) (page 74).

Subwoofer level setting:

- You can change the subwoofer level (page 44).

Subwoofer low pass filter setting:

- You can select the upper limit frequency of the sound from subwoofer (page 44).

Clock Setting

The 12-hour system is used for the clock.

- Turn your car's ignition key to the ACC or ON position.
- Press [SOURCE] (PWR).
- When the power is switched on for the first time, a demonstration appears on the display. Press [DISP] (display) to change to regular mode (page 22).

- 1 Press [MENU].  Press and hold [MENU] for more than 2 seconds. 

- 2 Press [>] to select "DISPLAY".



- 3 Press [∨] to select "CLOCK ADJ".



- 4 Press [SET].

- 5 Setting.

Hours:



- 1 Press [<].
The hour display highlights.
- 2 Press [^]: Put forward
- 3 Press [∨]: Put back

Minutes:



- 1 Press [>].
The Minutes display highlights.
- 2 Press [^]: Put forward
- 3 Press [∨]: Put back

- 6 Complete.

Press [SET].

Note:

- Press and hold [^] or [∨] to change numbers rapidly.


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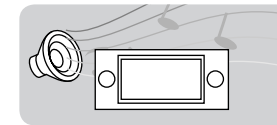
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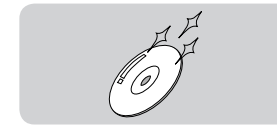
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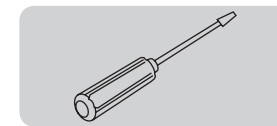


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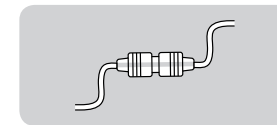


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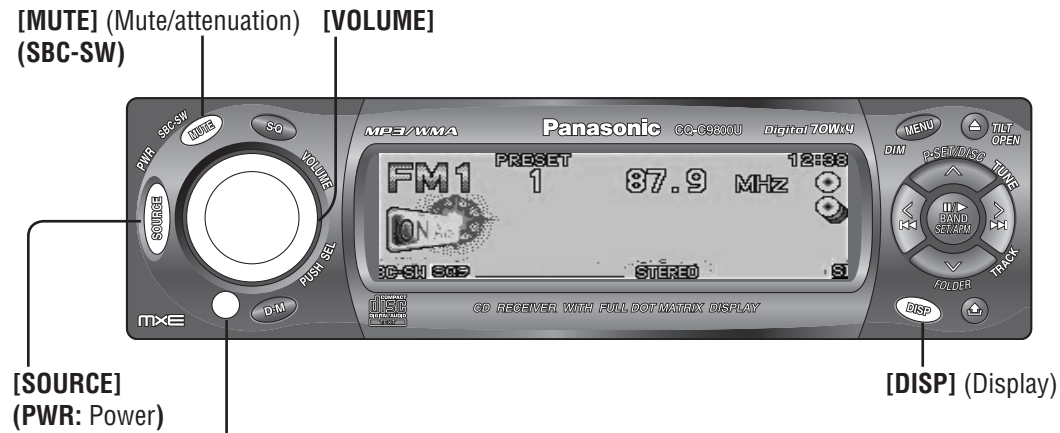
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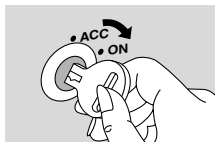
General



Point the remote control unit at the remote control signal sensor.

Power

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



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



OFF: Press **[SOURCE] (PWR)** again and hold until you hear a beep (about 1 second), then release it.

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



Note:

- After turning off the ignition key, a security message is displayed, and the panel removable alarm that reminds you to take the panel is activated. (When security function is set to on, page 52)

Demonstration:

When the power is switched on for the first time, a demonstration appears on the display. Press **[DISP]** (display) to change to regular mode.

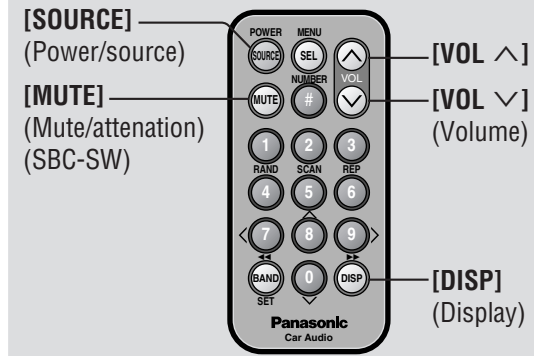
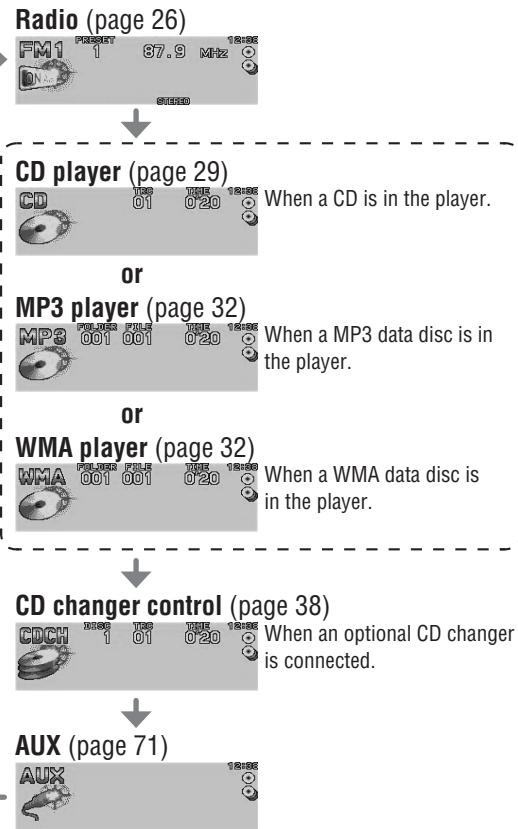


Note:

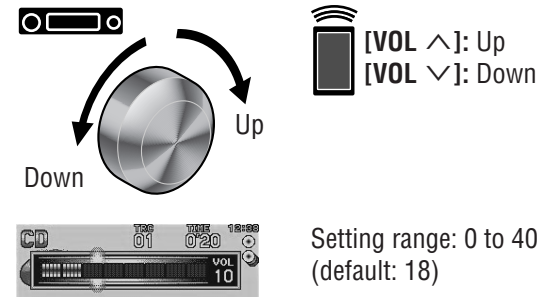
- To display the demonstration again, press and hold **[SOURCE]** for more than 4 seconds when turning power on.

Source

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



Volume



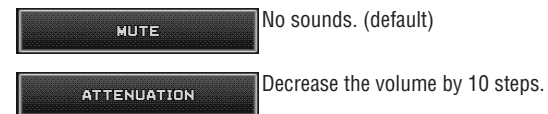
Note:

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

Mute/Attenuation

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

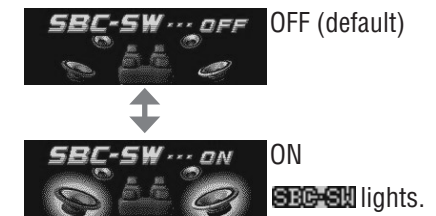
You can select mute or attenuation (page 52).



Rear Speakers as Sub-Woofers (Super Bass Control Subwoofer/SBC-SW)

You can utilize the rear speaker connected to the built-in amplifier as Sub-Woofers that output only bass. (Default: OFF)

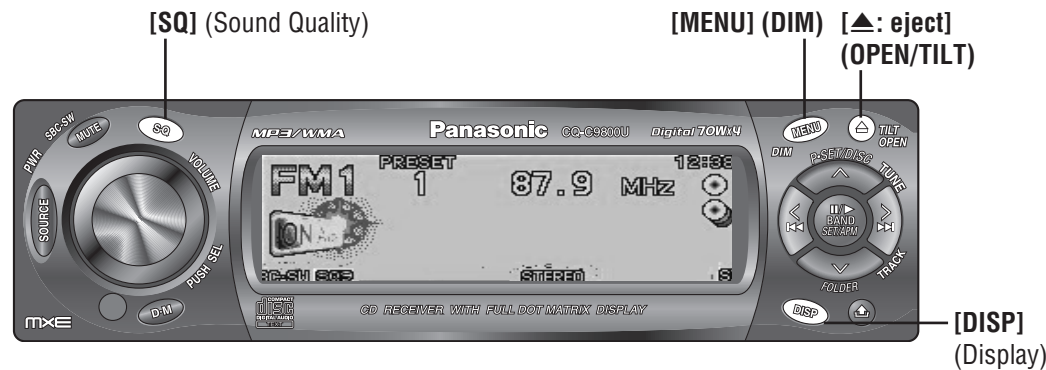
Press and hold **[MUTE] (SBC-SW)** for more than 2 seconds.



Note:

- When ON has been selected, the settings resulting from the adjustments performed at the subwoofer level and subwoofer low pass filter settings are reflected in the output.
- Depending on the speakers used and the type of music played, it may not be possible to achieve a satisfactory effect.

General (continued)



Caution:
 • Keep your fingers and hands away from the front panel when the panel is in motion.

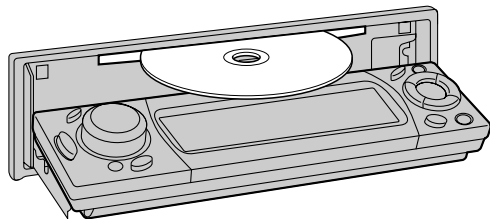
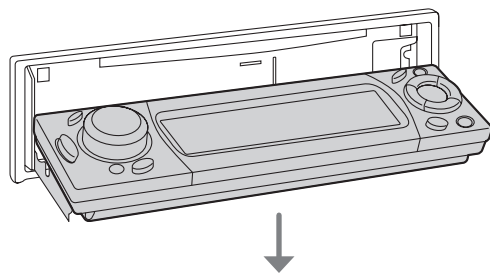
Open the Front Panel

Press [▲: eject] (OPEN).

Note:
 • If nothing is changed for 20 seconds, the original panel position will be recovered.

Close the Front Panel

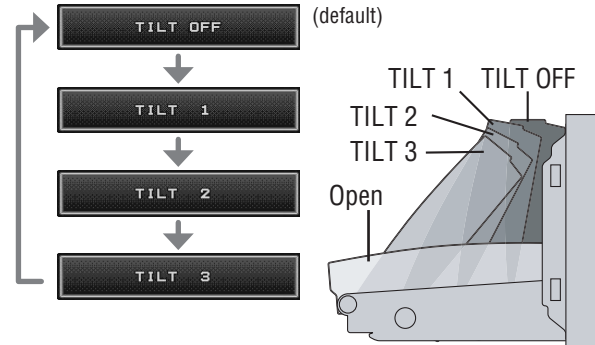
Press [▲: eject] (OPEN) again.



• If [▲: eject] (OPEN) is pressed when a disc is in the player, the front panel opens and the disc is ejected automatically. If no operation takes place for 20 seconds, the disc is automatically retracted into the main unit.

Panel Angle (Tilt)

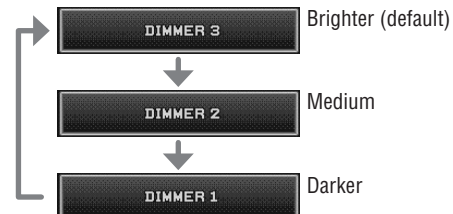
Press and hold [▲: eject] (TILT) until you hear a beep (about 1 second) from the speaker output, and "TILT" is displayed. And then release it. Set it to the position at which it is easy to read what is on the display. Each time the above operation is repeated, the panel angle changes in the sequence shown below.



Note:
 • The position which has been set using TILT will be retained even when the operations below are performed.
 • OPEN/CLOSE • ACC on/off

Dimmer

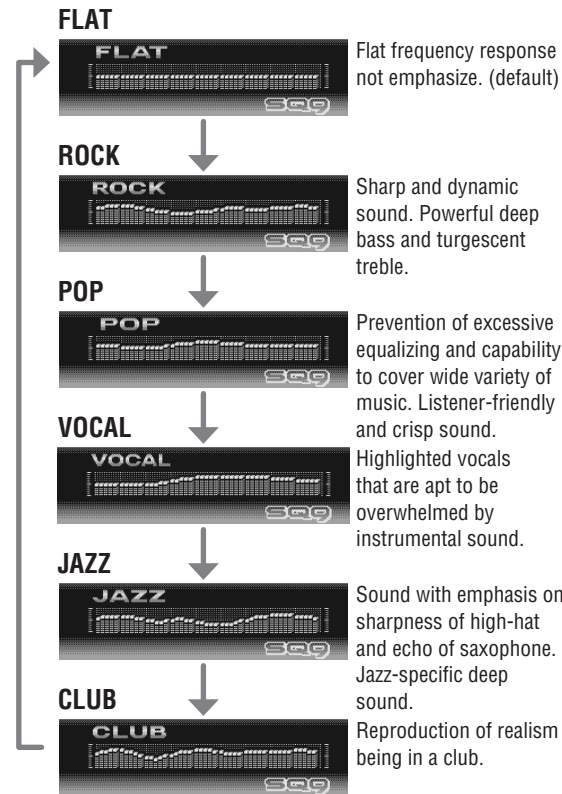
Press and hold [MENU] (DIM) for more than 2 seconds to change dimmer level setting as follows.



SQ (Sound Quality)

You have 6 preset modes (FLAT, POP, ROCK, VOCAL, JAZZ, CLUB). You can customize your settings for these (except FLAT) and save them for instant recall.
SQ9 (9-Band Sound Quality)
 Center frequency and level are adjustable in each of 9 bands. This lets you fine tune sound quality for each genre to suit car-interior acoustics and your personal preferences (page 46).

Press [SQ] to select a sound types as follows. SQ9 lights (except FLAT).

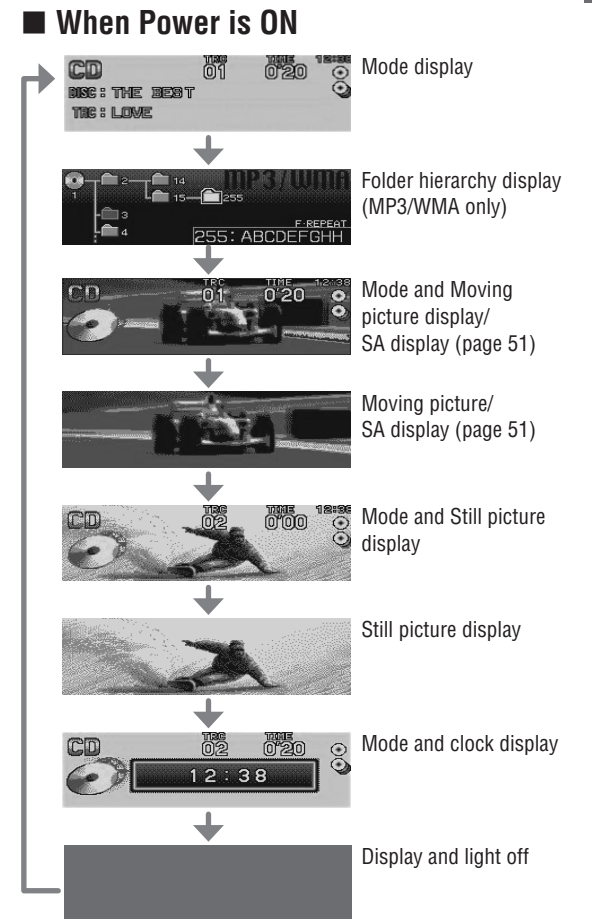


Press [DISP] (display) to return to the regular mode.

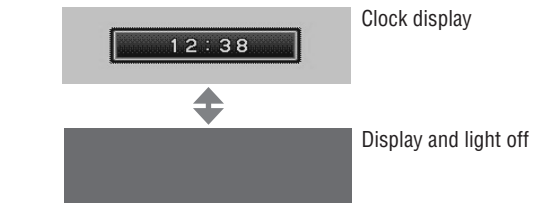
Note:
 • If no operation takes place for more than 5 seconds, the display returns to the regular mode.
 • Do not activate SQ and DC (bass/treble) at the same time to avoid causing sound distortion.
 • After pressing [SQ] on the main unit, you can also select a sound type by pressing the preset buttons [1] to [6].

Display Change

Press [DISP] (display).



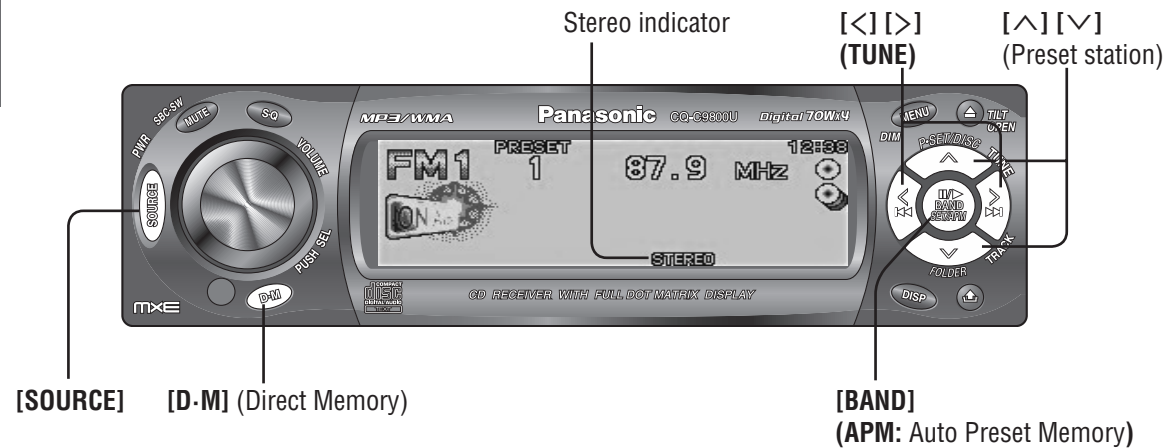
When Power is OFF



Note:
 Displays before adjusting the clock (page 11).

 • Set the background display (GRAPHIC PATTERN, STILL IMAGE) in a separate procedure (page 54).
 • "—:—" will appear before adjusting the clock on the right corner of the mode display.

Radio



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.

Note:

- When pressing **[MENU]** (pressing and hold **[MENU]** for more than 2 seconds on the remote control unit) in radio mode, the following display appears. This is because radio mode does not have any menu settings.



Direct Memory (D-M)



This is a useful function that can call broadcast stations directly during playback in other modes (CD, CD Changer, etc.), even when the power is off.

Your favorite radio station can be memorized in **[D-M]** (direct memory).
Default: FM 87.9 MHz

Memorize

- Select a band and frequency.
- Press and hold **[D-M]** for more than 2 seconds.
 - Frequency blinks once and is saved in the memory.

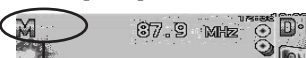


Note:

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

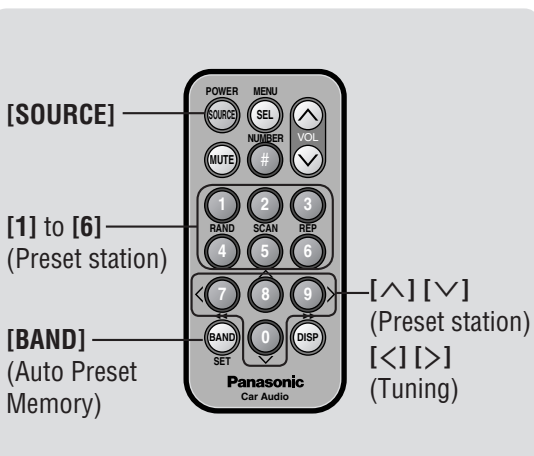
Recalling the Direct Memory

Press **[D-M]**.



Direct Memory mode

Press **[D-M]** again to cancel.



Caution:

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

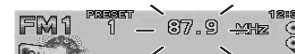
Station Preset

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

Auto Preset Memory (APM)

Automatically save stations with good reception in the preset memory.

- Select a band (previous page).
- 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).



Manual Preset Memory

Manually save a station in the preset memory.

- Select a band and frequency (previous page).
- Press and hold [**^**] or [**v**] until the preset number blinks.
- Press [**^**] or [**v**] to select the preset number (1 to 6).
- Press and hold [**^**] or [**v**] for more than 2 seconds to memorize.
 - The display blinks once, and a receiving station is saved in the memory.



- Select a band and frequency (previous page).
- Press and hold [**1**] to [**6**] for more than 2 seconds to memorize.

Note:

- New stations overwrite existing saved stations after this procedure.

Preset Station Calling

- Select a band (previous page).
- Press [**^**] or [**v**].

Press [**1**] to [**6**].



Before Disc Playback

Available Discs

CD-DA



MP3/WMA



Caution:

- 3" (8 cm) CD is not available for this unit, so do not insert it.
- Do not use irregularly shaped discs.
- Do not use discs that have a seal or label attached.
- To avoid damaging the front panel, do not push it down or place objects on it while it is open.
- Keep your fingers and hands away from the front panel when the panel is in motion.
- Do not insert foreign objects into the disc slot.

Note:

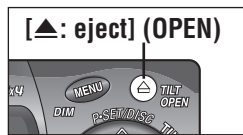
- The power will be turned on automatically when a disc is loaded.
- A disc which has both CD-DA data and MP3/WMA data on it may not be reproduced normally. (For example, it may be reproduced without sound.)
- Refer to the section on "Notes on MP3/WMA" (page 36) and "Notes on Discs" (page 62).

This instructions on this page are followed for both CD-DA playback and MP3/WMA playback.

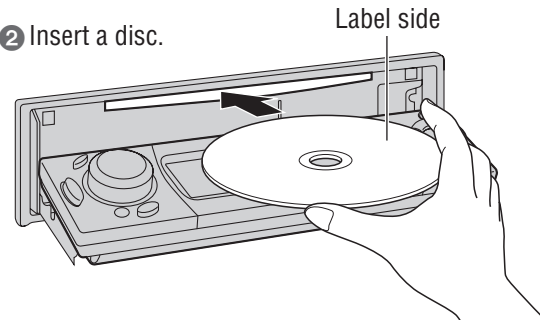
Disc Insert



- 1 Press [▲: eject] (OPEN).
If there is a disc loaded, the disc will be ejected.



- 2 Insert a disc.



When placing a disc into or taking a disc out from the main unit, hold it as shown in the figure, and refrain from putting any of your fingers into the disc's center hole.

Note:

- It may take some time to start playing.
- Playback will start automatically after recognizing the data of the loading disc.



When CD is in the Player

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

Disc Eject



- 1 Press [▲: eject].
The disc will be ejected after the front panel fully opens.
- 2 Take a disc.
- 3 Press [▲: eject] again to close.

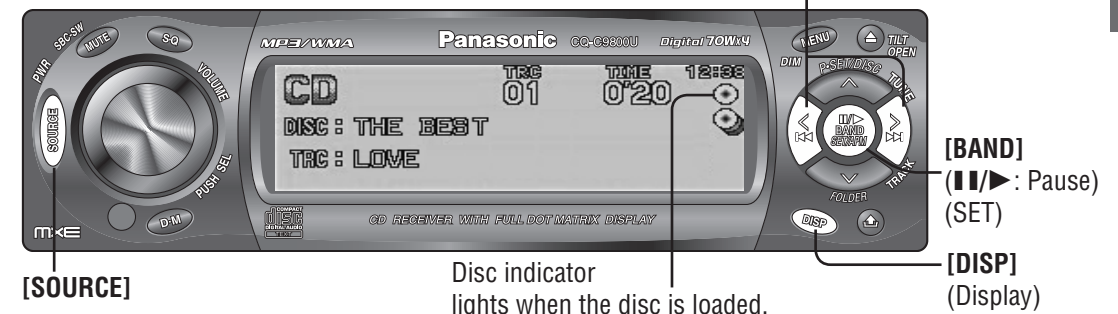
Note:

- If no operation takes place within 20 seconds or so after the panel has opened, the panel will close automatically.

CD Player

Do not watch the scroll display while driving.

[|◀◀|/▶▶|] (◀◀/▶▶)
(Track selection/fast forward/fast reverse)



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 the playback.

Pause

- Press [||▶].
- Press [||▶] 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.

Direct Track Selection

Example: track number 10

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

Note:

- To suspend direct selection, press [DISP] (display) or [#].
- Random, scan and repeat play are canceled once [#] is pressed.

Text Display

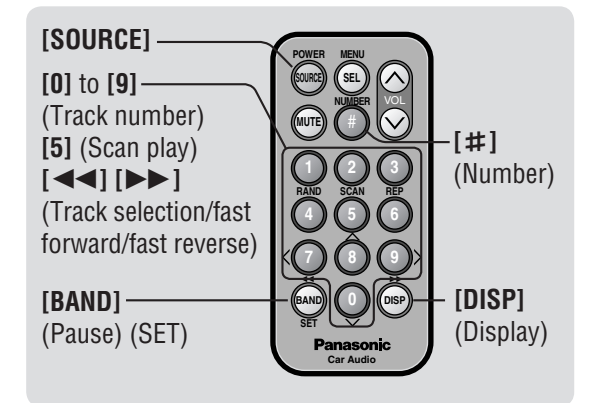
Press and hold [DISP] (display) for more than 2 seconds in the mode display.



- * Press and hold [BAND] for more than 2 seconds to have an another circle scroll when a title is displayed.

Note:



- "NO TEXT": Displays when there is no text.



Random Play/Repeat Play



1 Menu

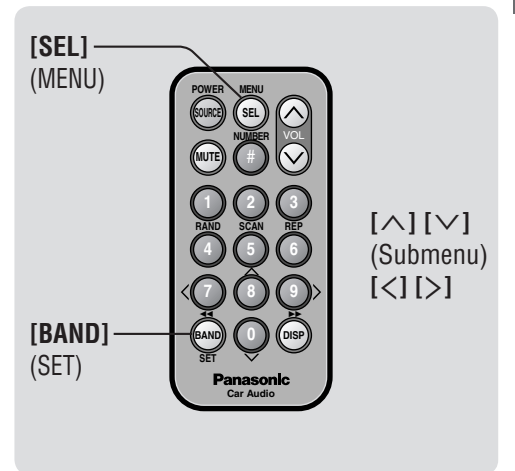
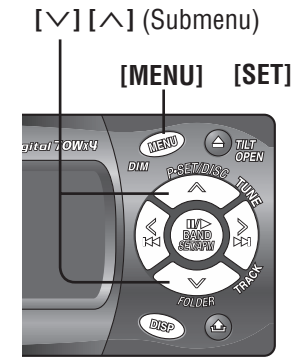
- Press **[MENU]** during CD playing. 
 - Press and hold **[MENU]** for more than 2 seconds during CD playing. 

2 Submenu

Press **[^]** or **[v]**.

3 Set

Press **[SET]**.



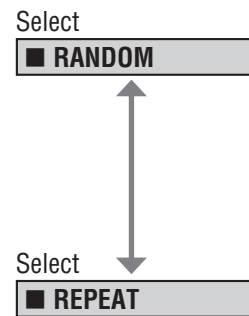
Random Play

Default: OFF

Repeat Play

Default: OFF

Select "CD·DA".




- ON** All the available tracks play in a random sequence. **RANDOM** lights.
- OFF** Cancel

- ON** Repeat the current track. **REPEAT** lights.
- OFF** Cancel

Direct Operation



Note:

- Press **[DISP]** (display) to return to the regular mode.
- Press and hold **[MENU]** for more than 2 seconds to return to the regular mode. 

MP3/WMA Play

Watch the screen while driving.



F

Press

[▶▶▶]

[◀◀◀]

Release

Pa

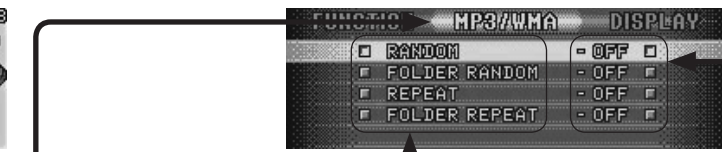
Press [■]

Press [■]

cancel.

MP3/WMA Player (continued)

Random Play/Repeat Play



1 Menu

- Press **[MENU]** during MP3/WMA playing.
- Press and hold **[MENU]** for more than 2 seconds during MP3/WMA playing.

2 Submenu

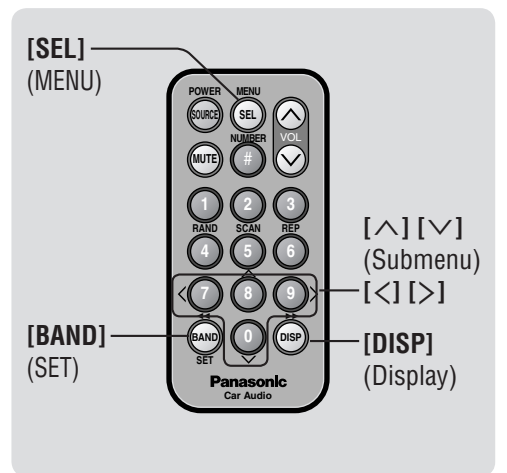
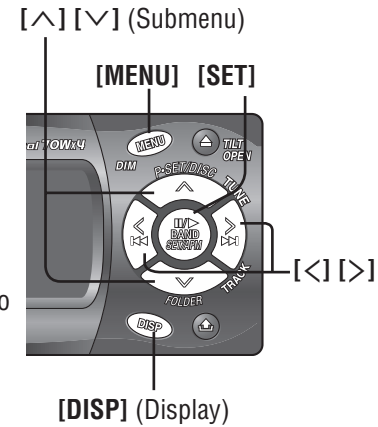
Press **[^]** or **[v]**.

- Press **[<]** or **[>]** to select "MP3/WMA".

3 Set

Press **[SET]**.

- Note:**
- Press **[MENU]** to return to the regular mode.



Random Play

Default: OFF

Folder Random Play

Default: OFF

Repeat Play

Default: OFF

Folder Repeat Play

Default: OFF

Select "MP3/WMA".

Select **■ RANDOM**

Select **■ FOLDER RANDOM**

Select **■ REPEAT**

Select **■ FOLDER REPEAT**

ON All the files on all folders play in a random sequence. **RANDOM** lights.
OFF Cancel

ON All the available files on the current folder play in a random sequence. **F-RANDOM** lights.
OFF Cancel

ON Repeat the current file. **REPEAT** lights.
OFF Cancel

ON Repeat the current folder. **F-REPEAT** lights.
OFF Cancel

Direct Operation

- Press **[4]** (Random play). Press and hold **[4]** (Folder random play).
- Press **[6]** (Repeat play). Press and hold **[6]** (Folder repeat play).



- Note:**
- Press **[DISP]** (display) to return to the regular mode.
 - Press and hold **[MENU]** for more than 2 seconds to return to the regular mode.

MP3/WMA Player (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. (These 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 playback.

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/displayable characters

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 à á â ã ä å
Ë Ì Í Î Ï Ò Ó Ô Õ Ö ö Ù Ú Û Ü Û ü Ü

CD-TEXT		MP3 (ID3 tag)	
Disc title	Max. 64	Album title	Max. 30
Track title	Max. 64	Title and artist	Max. 30
MP3/WMA		WMA (WMA tag)	
Folder name	Max. 64	Artist title	Max. 30
File name	max. 64	Title and artist	Max. 30

- 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.

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.

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



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 kbps–320 kbps	Yes	32, 44.1, 48 kHz
MPEG 2 audio layer 3 (MP3)	8 kbps–160 kbps	Yes	16, 22.05, 24 kHz
Windows Media Audio Ver. 2/Ver. 8/Ver.9*	64 kbps–192 kbps	No	32, 44.1, 48 kHz

* WMApro, Loss-less: Not available
64 kbps at 48 kHz: Not available

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.

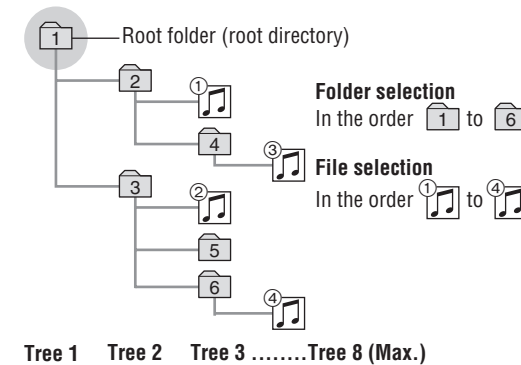
Folder Selection Order/File Playback Order

Maximum number of files/folders:

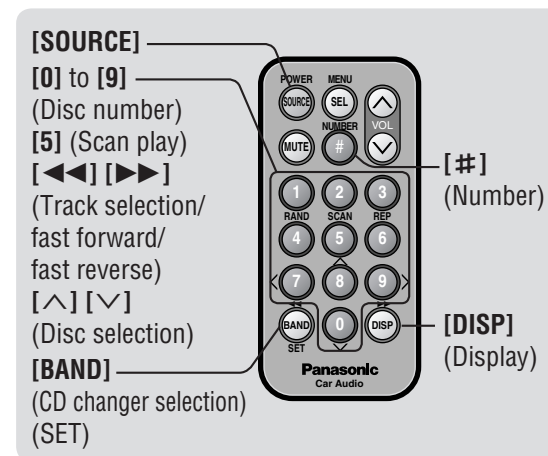
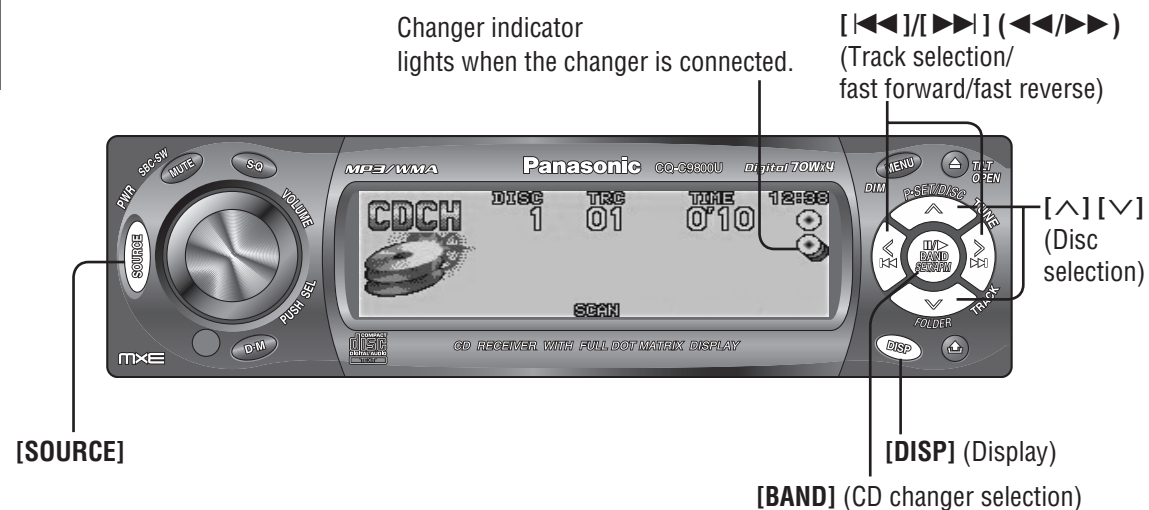
- Maximum number of files: 999
- Maximum number of files in one folder: 255
- Maximum depth of trees: 8
- Maximum number of folders: 255 (Root folder is included.)

Note:

- This unit counts the number of folders irrespective of the presence or absence of MP3/WMA file.
- Operation returns to the start of the disc when a folder with no MP3 or WMA format files is selected.
- 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.



CD Changer Control



CD Changer Mode

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

- CD changer mode display**
-
- Note:**
- The power will be turned on automatically when a magazine is loaded.
 - This unit does not support the following through the CD changer.
 - CD-RW playback (except when CX-DP880U is connected.)
 - CD text display
 - MP3/WMA playback
 - Pausing does not function in the changer mode.

Disc Selection

Press **[^]**: Next disc
 Press **[v]**: Previous disc

Track Selection

Press and hold **[>>>]** (**>>>**): Fast forward
 Press and hold **[<<<]** (**<<<**): Fast reverse
 Release to resume the playback.

Fast Forward/Fast Reverse

Press **[>>>]** (**>>>**): Next track
 Press **[<<<]** (**<<<**): Beginning of the current track
 For the previous track, press twice.

Scan Play

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

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

SCAN lights.



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.

D-SCAN lights.



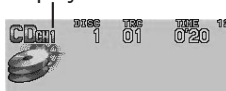
Press and hold **[5] (SCAN)** again for more than 2 seconds to cancel.



CD Changer Selection

Preparation:
 Use the dual CD changer selector (CA-CD55U, option) to connect 2 CD changers (page 72).

Press **[BAND]**.
 The selected changer number (either 1 or 2) is displayed.



Direct Disc Selection

Example: disc number 5

1 Press **[#]**.



2 Press **[5]**.

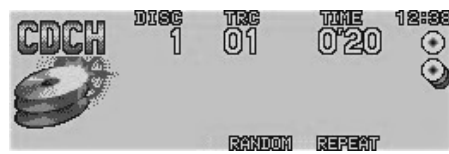
3 Press **[BAND] (SET)**.



- Note:**
- To suspend direct disc selection, press **[DISP]** (display) or **[#]**.
 - Random, scan and repeat play are canceled once **[#]** is pressed.

CD Changer Control (continued)

Random Play/Repeat Play



1 Menu

- Press **[MENU]** during CD changer mode.
- Press and hold **[MENU]** for more than 2 seconds during CD changer mode.

2 Submenu

Press **[^]** or **[v]**.

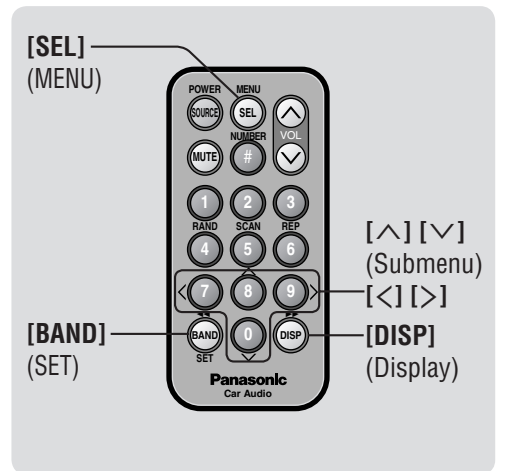
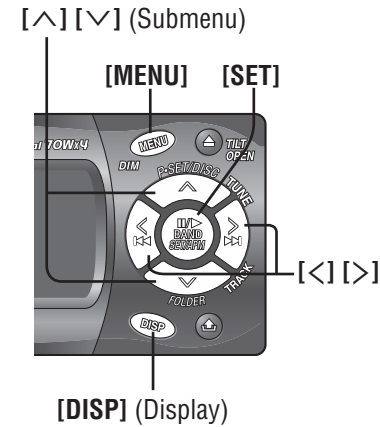
- Press **[<]** or **[>]** to select "CD-CH".

3 Set

Press **[SET]**.

Note:

- Press **[MENU]** to return to the regular mode.



Random Play

Default: OFF

Disc Random Play

Default: OFF

Repeat Play

Default: OFF

Disc Repeat Play

Default: OFF

Select "CD-CH".

Select
 RANDOM

Select
 DISC RANDOM

Select
 REPEAT

Select
 DISC REPEAT

ON All the available tracks on all discs in the magazine play in a random sequence.
RANDOM lights.
OFF Cancel

ON All the available tracks on the current disc play in a random sequence.
DISC-RANDOM lights.
OFF Cancel

ON Repeat the current track.
REPEAT lights.
OFF Cancel

ON Repeat the current disc.
DISC-REPEAT lights.
OFF Cancel

Direct Operation

Press **[4]** (Random play).
 Press and hold **[4]** (Disc random play).
 Press **[6]** (Repeat play).
 Press and hold **[6]** (Disc repeat play).



Note:

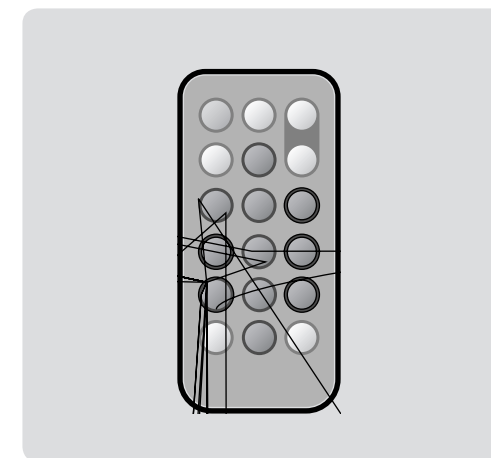
- Press **[DISP]** (display) to return to the regular mode.
- Press and hold **[MENU]** for more than 2 seconds to return to the regular mode.

Audio Settings



1 Press **[VOLUME]**
(**PUSH SEL**: select).
Press **[SEL]**.

2 Turn **[VOLUME]**.
Press **[VOL ^]** or **[VOL v]**.



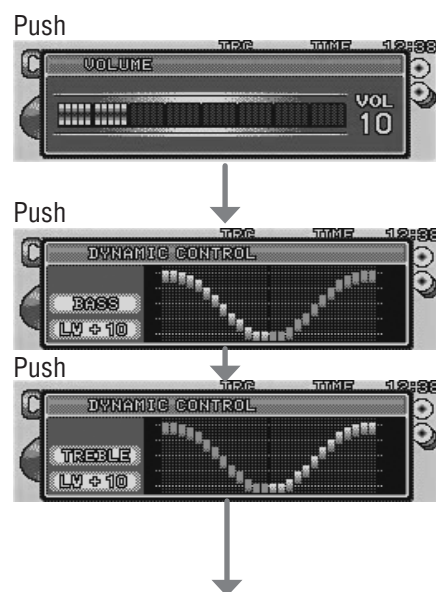
Volume

Default: 18
Setting range: 0 to 40

DC (Dynamic Control) (Bass/Treble)

By setting the bass and treble, the bass and treble can be accentuated so you can create the kind and quality of sound that you really like.

Default: +1
Setting range: OFF, LV+1 to LV+10 (by 1 step)



(page 44)

[VOLUME ^]: Up
[VOLUME v]: Down

[VOLUME ^]: Increased
[VOLUME v]: Decreased

The DC indicator lights when this setting has been performed.

[VOLUME ^]: Increased
[VOLUME v]: Decreased

The DC indicator lights when this setting has been performed.

Note:

- Press **[DISP]** (display) to return to the regular mode.
- If no operation takes place for more than 5 seconds in audio setting (2 seconds in the volume setting), the display returns to the regular mode.
- The volume can also be adjusted directly using **[VOLUME]** on the main unit (page 23).
- Do not activate SQ and DC (bass/treble) at the same time to avoid causing sound distortion.



Subwoofer Level

You can change the subwoofer volume level.
Default: 0 dB
Setting range: $-\infty$ (subwoofer mute),
-6 dB to +6 dB (by 2 dB)

Subwoofer Low Pass Filter (LPF)

You can select the upper limit frequency of the sound from subwoofer.
Default: 120 Hz
Setting range: OFF, 60 Hz–160 Hz (by 5 Hz)

High Pass Filter (HPF)

Select the lower limit frequency of the sound from speakers (except subwoofer).
Default: OFF
Setting range: OFF, 90 Hz–225 Hz (by 5 Hz)

[VOLUME ^]: Increased
[VOLUME v]: Decreased

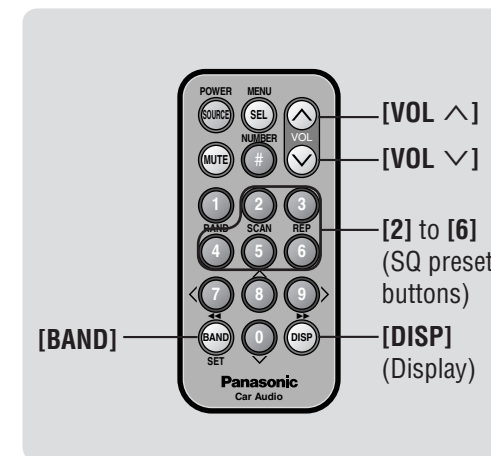
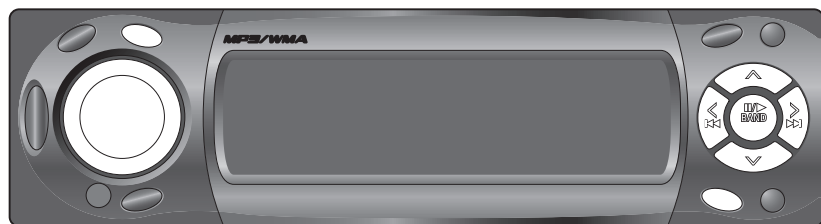
[VOLUME ^]: Increased
[VOLUME v]: Decreased

[VOLUME ^]: Increased
[VOLUME v]: Decreased

Note:

- Press [DISP] (display) to return to the regular mode.
- If no operation takes place for more than 5 seconds in audio setting (2 seconds in the volume setting), the display returns to the regular mode.
- When SBC-SW setting (page 23) has been selected to ON, the settings resulting from the adjustments performed at the subwoofer level and subwoofer low pass filter settings are reflected in the output.

Audio Settings (continued)



SQ Adjustment (SQ ADJUSTMENT)

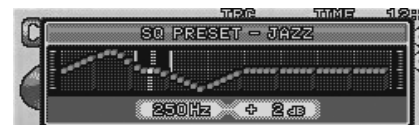
Center frequency and level are adjustable in each of 9 bands. This lets you fine tune sound quality for each genre to suit car-interior acoustics and your personal preferences.

Equalizer center frequency:
62.5 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz,
2 kHz, 4 kHz, 8 kHz, 16 kHz (default)
Setting range: -12 dB to +12 dB
(by 2 dB)

SQ Preset Memory Setting (SQ PRESET MEMORY)

You have 6 preset modes (FLAT, POP, ROCK, VOCAL, JAZZ, CLUB). You can customize your settings for these (except FLAT) and save them for instant recall.

- Do not activate SQ and DC (bass/treble) at the same time to avoid causing sound distortion.



- Press [**<**] or [**>**] to select a band.
[**>**]: Up
[**<**]: Down
- Turn [**VOLUME**] to select a center frequency.
[**VOLUME ^**]: Up
[**VOLUME v**]: Down
- Press [**^**] or [**v**] to adjust the equalizer level.
[**^**]: Up
[**v**]: Down



To return an adjusted SQ to the default setting

Press and hold [**BAND**] for more than 2 seconds during SQ adjustment setting.

Note for SQ adjustment and preset memory:

- To call a preset SQ, refer to page 25.
- While the SQ adjustment mode is established, only adjustments are performed, and even if the adjustment mode is exited without presetting an adjusted effect, what has been set will be reflected as the current SQ until another SQ is selected.
- Even when the SQ presets are adjusted, the display which appears when the settings are called remains unchanged.
- Only buttons [**2**] to [**6**] can be used to preset the adjusted SQ. An adjusted SQ cannot be preset in button [**1**].

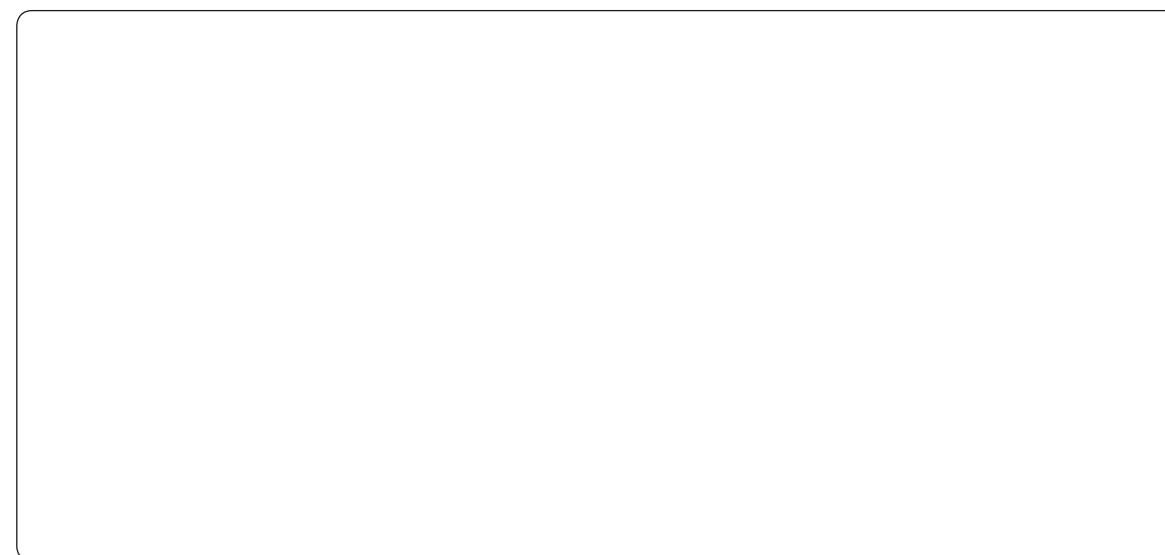
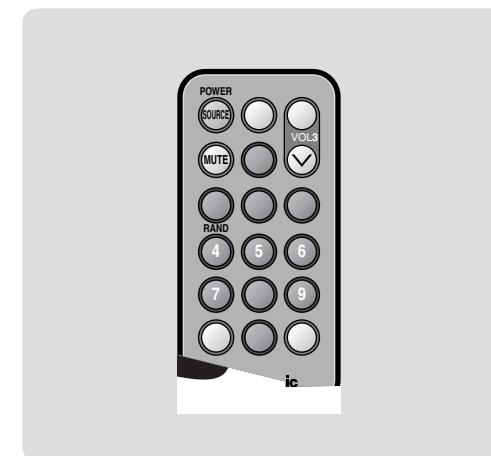
Note:

- Press [**DISP**] (display) to return to the regular mode.
- If no operation takes place for more than 10 seconds in SQ adjustment and position settings, the display returns to the regular mode.

Audio Settings (continued)

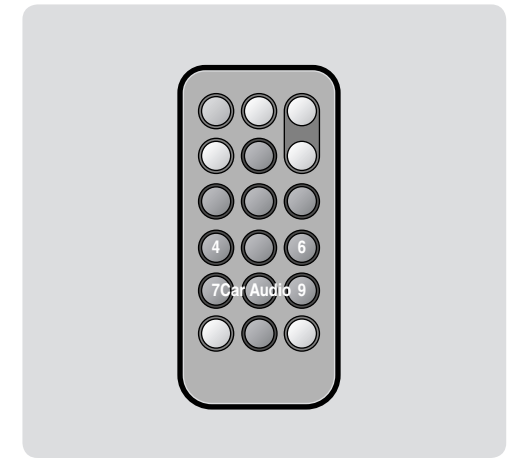
3 Set

Press [<] or [>].

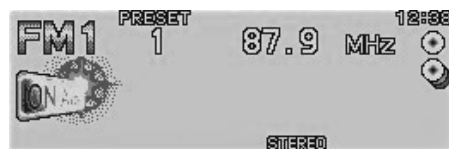


Note:

- Press [DISP] (display) to return to the regular mode.
- If no operation takes place for more than 10 seconds in SQ adjustment and position settings, the display returns to the regular mode.

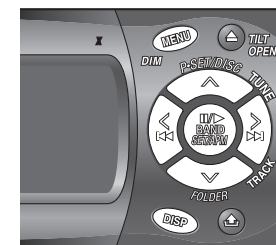


Function Settings



2 Submenu
Press [\wedge] or [\vee].

3 Set
Press [SET].



Mute/Attenuation

You can select mute or attenuation when [MUTE] is pressed (page 23).
Default: MUTE

Security Function

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

Select "FUNCTION".

Select

■ MUTE KEY

Select

■ SECURITY

MUTE No sound (Mute)

ATT Decrease 10 steps (Attenuation)

ON Security function is activated.

OFF Security function is not activated.

Security Function

When the key in the ignition is turned OFF

- Security message will be displayed.

PLEASE REMOVE PANEL

- The panel removal alarm will be active (page 63).

When the front panel is removed

- The security indicator blinks (page 63).

Customize the Display (Customize function)



What the customize function does

This function enables the user to rewrite the unit's graphic pattern, still picture or opening or closing moving picture into a desired replacement image.

Image data which can be changed

- Data downloaded from Panasonic's dedicated web site
 - Data generated by a PC
- The rewriting process is performed using a CD-R/RW disc on which the replacement data is recorded. The replacement data and the application (IMAGE STUDIO) for creating the replacement data using a PC can be downloaded from the following web site:
<http://panasonic.co.jp/pas/en/software/customize/index.html>

Customizing procedure

Preparation:

- Have ready the CD-R/RW* disc on which the replacement data is recorded.
 - *A dedicated writing software and a drive are needed to create the CD-R/RW disc.
- For further details, refer to Panasonic's web site (page 55) or the operating instructions of the writing software.

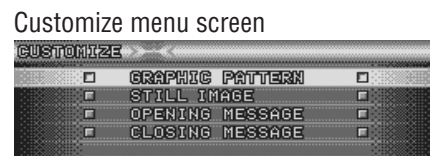
1 (Make sure there is no CD insert in the unit.) Press **[SOURCE]** to select the CD mode.

2 Press and hold **[SEL]** for more than **4 seconds** to enter the customize menu.



3 Insert the CD-R/RW disc containing the data to be used for customizing.
 • The customize menu screen now appears.

4 **1** Press **[^]** or **[v]** to select an item to be customized.



■ GRAPHIC PATTERN

Moving image data

■ STILL IMAGE

Still image data

■ OPENING MESSAGE

Moving image at power on

■ CLOSING MESSAGE

Moving image at power off

2 Press **[SET]**.

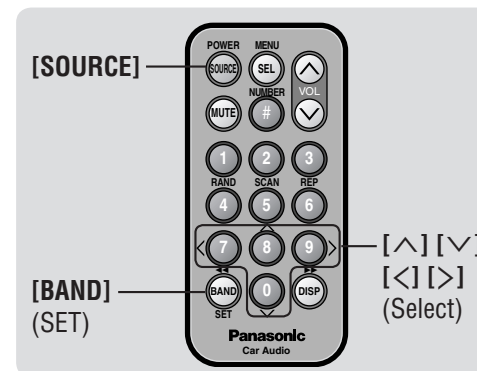
5 **1** Press **[^]** or **[v]** to select a file.



- The maximum number of characters displayed for filenames is 16. (The number of characters in the file name may be limited, depending on the type of writing software being used.)

2 Press **[SET]**.

- The previous screen is restored when **BACK** is selected using **[>]** and **[SET]** is pressed to enter the selection.



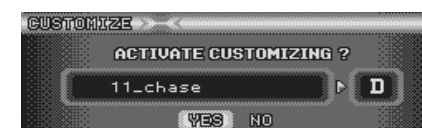
6 **1** For a moving image file or still image file, press **[<]** or **[>]** to select where to save the file. The screen showing what will be overwritten is previewed.

(Example: GRAPHIC PATTERN)



2 Press **[SET]**. Returns to step **5**.

7 **1** Press **[<]** or **[>]** to select "YES".



2 Press **[SET]**.
 New data overwrites existing data.



CUSTOMIZING COMPLETE

- Customizing is completed successfully, and operation returns to step **4**.
- Operation also returns to step **4** when "No" is selected.
- In case of customization failure, "**CUSTOMIZING FAILED**" appears.

8 **1** Press and hold **[SEL]** for more than **4 seconds** to exit the customize menu.
 • The customize mode is released, and the CD mode is restored.

2 Eject the disc.

Note:

- Do not write data on the CD-R/RW disc if, by so doing, the maximum allowed number of files listed below will be exceeded. If files are written on the CD-R/RW disc in a number which exceeds the maximum number of files allowed as given in the table below, it will not be possible to use the excess files.

Type of image	Extension	Max. number of files allowed
Moving image	.pfm	10
Still image	.pfs	15
Opening image	.pfo	5
Closing image	.pfe	5

- Do not write any data except data for customizing on the CD-R/RW disc.
- Do not change the file extension since doing so will make it impossible for the image to be written properly.
- When data is to be recorded on the CD-R/RW disc, be absolutely sure to record it in the root directory (the highest hierarchical level). Do not write the data in a folder.
- When a CD-RW disc has been inserted into the unit, it may take a few moments for its data to be loaded.
- GRAPHIC PATTERN A and STILL IMAGE No.1 cannot be overwritten.
- The bigger the file, the longer customizing will take (approx. 8 minutes for the largest file with 751 KB).
- When the power is turned off, when the engine is stopped or when the panel is released while customizing is underway, the customizing operation will be aborted and the data being rewritten will be lost. In a case like this, proceed with the customizing operation again.
- If the corrupted data is selected, "**DISPLAY FILE INCOMPLETE**" appears.
- Do not perform any operations while customizing is in progress (step **7-2**).
- To return to the default image, download the applicable file on the web site (page 54) and, using the CD-R/RW disc containing this file, perform the rewriting process again.
- The download service may be temporarily shut down without warning due to unspecified reasons. Furthermore, it may not always be available in all areas.
- For further details, refer to Panasonic's web site at the address provided below.
<http://www.panasonic.co.jp/global/>

Troubleshooting

Preliminary Steps

Check and take steps as described in the tables below.

If You Suspect Something Wrong

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

Caution:

- Do not use the unit if it malfunctions or if there is something wrong.
- Do not use the unit in abnormal condition, for example, without sound, or with smoke or foul smell, which can cause ignition or electric shock. Immediately stop using it and call the store where you purchased it.

Troubleshooting Tips

Common

Problem	Possible cause	Possible solution
No power to the unit.	The power cord (battery, ACC and ground) is connected in the wrong way.	Check the wiring.
	Fuse blow out.	Eliminate the cause of fuse blow out and replace the fuse with new one. Consult your dealer.
The Power fails unintentionally.	The safety device works.	Call the store where you purchased the unit, or your nearest Panasonic Servicenter.
Sound is not generated.	MUTE is set to ON.	Set MUTE to OFF.
	The wiring of the speaker lines are not correct, or a break or poor contact arises.	Check the wiring in accordance with the wiring diagram.
The demonstration screen displayed and no operable.	You cannot operate the unit while the demonstration screen appears.	Press [DISP] (display) to end the demonstration screen.
	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.
Some operations are not executable.	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 the dealer.

Problem	Possible cause	Possible solution
Noise	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 the noise cannot be eliminated due to the wiring harness of the car, consult your dealer.
	The contact of the ground lead is poor.	Make sure that the ground lead is connected to an unpainted part of the chassis securely.
Noise is made in step with engine revolutions.	Alternator noise comes from the car.	Change the wiring position of the ground lead. Mount a noise filter on the power supply.
No sound from speaker(s)	Balance/fader setting is not appropriate.	Readjust balance/fader.
	There is a break, a short circuit, poor contact or wrong wiring regarding the speaker wiring.	Check the speaker wiring.
	Some speakers are out of order.	Replace the speaker with new one.
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.

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 are less than 6.	The number of receivable stations are 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.

Troubleshooting (continued)

CD/MP3/WMA

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 objects on the disc.	Remove the foreign objects, or use a flawless disc.
	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 CD-R/RWs that are playable on other devices are not playable on this unit.	The unit plays back the ROM track of a mix mode CD.	Skip the ROM track.
	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 personal computer.	Make CD-R/RWs in 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 objects on the disc.	Remove the foreign objects, or use a flawless disc. For MP3/WMA, refer to the description about MP3/WMA.
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	Something such as a peeled label obstructs the disc coming out.	Press and hold [▲ : eject] (OPEN) for more than 4 seconds when the front panel is open (disc forced ejection). In case that the disc forced ejection does not work, consult the 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 the dealer.

Note:







- Refer to the section on “Notes on MP3/WMA” (page 36).

Remote Control Unit

Problem	Possible cause	Possible solution
No response to pressing buttons	The battery is inserted in the wrong direction. A wrong battery is inserted.	Insert a correct battery in the correct direction.
	The lithium battery is weak.	Replace the battery with new one.
	The aiming direction of the remote control unit is wrong.	Aim the remote control unit at the sensor of the unit and press buttons.
	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.)	Block off sunlight to the sensor.

Error Display Messages

CD/MP3/WMA

Display	Possible cause	Possible solution
  	Disc is dirty, or is upside down.	Check the disc.
	Disc has scratches.	Check the disc.
	No operation by some cause.	If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Servicenter to ask for repairs.
MP3/WMA * 	The player cannot read the file you are trying to play for some reasons. (File recorded in an unsupported file system, compression scheme, data format, file name extension, damaged data, etc.)	Select a file that the player can read. Confirm the type of data recorded on the disc. Create a new disc if necessary.
WMA 	An attempt has been made to play a copy-protected WMA file.	Play WMA files which are not copy-protected.
	No disc in the player.	Insert a disc into the player.

* If all the files cannot be played, E4 remains on the display.

Troubleshooting (continued)

CD Changer Control

Display	Possible cause	Possible solution
CD-CH E 1	Disc is dirty, or is upside down. A disc other than a music CD (CD-DA type) is loaded.	Check the disc. (The changer automatically switches to the next disc.)
CD-CH E 2	Disc has scratches.	Check the disc. (The changer automatically switches to the next disc.)
CD-CH E 3	No operation by some cause.	If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Servicenter to ask for repairs. The display continues if you cannot switch off the power.
NO DISC	No disc is in the changer (magazine).	Insert discs into the changer (magazine).
NOT CONNECTED	The dual CD changer selector is connected but the changers are not connected. The changer has become disconnected from this unit in the changer mode.	Verify that correct connections have been made.

Note:

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

Customize Function

Display	Possible cause	Possible solution
NO FILES DETECTED	No customize-specific data on the disc.	Load a disc that contains customize-specific data.
CUSTOMIZING FAILED	Customize failed.	Check to see whether or not the extension is correct and file contents are appropriate.
DISPLAY FILE INCOMPLETE	Intended moving image or still image is damaged.	Customize it again and overwrite the file with new one.

Maintenance

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

Product Servicing

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

Fuse

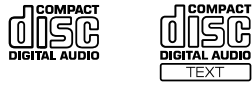
Use fuses of the same specified rating (15 A). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the unit.

If the replacement fuse fails, contact your nearest Panasonic Servicenter for service.

Notes on Discs

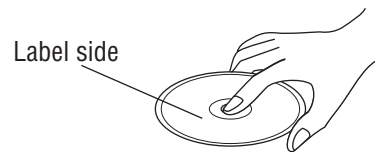
Notes on CD/CD Media (CD-R, CD-RW, CD-ROM)

If you use commercial CDs, they must have either of these labels below.

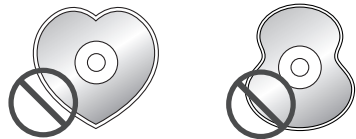


How to hold the disc

- 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 on the following places:

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

Disc cleaning

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



Do not attach any seals or labels to your discs.

Do not write 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 them and make playback impossible.
- Some CD-R/RWs cannot 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 MP3/WMA data.
- Be sure to observe the instructions of CD-R/RW disc for handling it.

Anti-Theft System

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

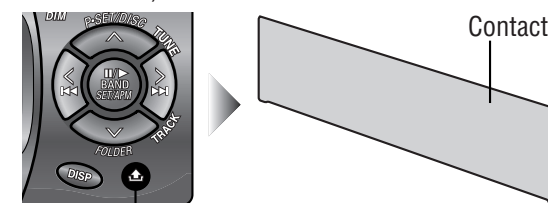
Caution:

- 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 face plate, do not push it down or place objects on it while it is open.
- The front panel will automatically close about 5 seconds after [Release] (release) is pressed while the front panel is tilted or open, so take care to ensure that your fingers will not be pinched by the closing panel.

Remove the Removable Face Plate

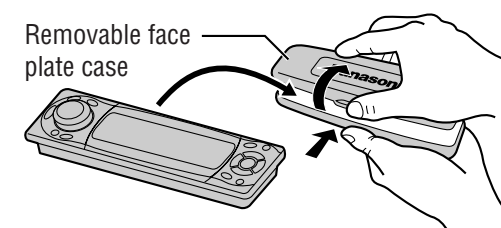
- 1 Switch off the power of the unit (page 22).
- 2 Press [Release] (release) to remove the removable face plate. (The face plate disengages with a click when it is removed.)



[Release] (Release)

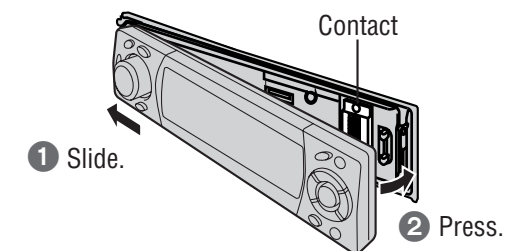
Note:

- Be absolutely sure to turn off the main unit's power before removing the removable face plate.
 - Do not install or remove the removable face plate while it is moving.
- 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

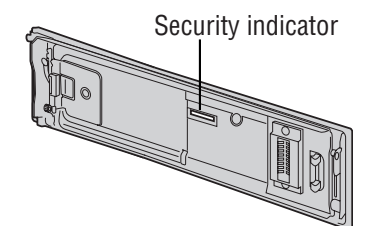
- 1 Slide the left side of the removable face plate in place.
- 2 Press the right end of removable face plate until "click" is heard.



Security Indicator

The security indicator blinks when the face plate is removed from the unit.

This function is activated when the security function is on (page 52).



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 52).

Installation Guide



WARNING

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

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

If your car is equipped with air bags and/or anti-theft systems specific procedures may be required for connection and disconnection of the battery to install this product.

Before attempting installation of this electronic component contact your car dealer or manufacturer to determine the required procedure and strictly follow their instructions.

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

Caution:

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

Installation Hardware

No.	Item	Diagram	Q'ty
①	Mounting collar		1
②	Hex. nut (5 mmφ)		1
③	Rear support strap		1
④	Tapping screw (5 mmφ×16 mm)		1
⑤	Mounting bolt (5 mmφ)		1
⑥	Power connector		1
⑦	Trim plate		1
⑧	Lock cancel plate		2

Required Tools

You'll need a screwdriver, a 1.5 V AA battery, and the following:

12 V DC
Test bulb



Electrical tape



Side-cut
pliers



Overview

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

(Please refer to the "WARNING" statement.)

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

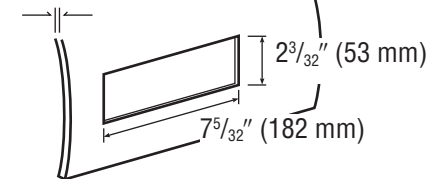
If you encounter problems, please consult your nearest professional installer.

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

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

Dashboard Specifications

Thickness Min. $\frac{3}{16}$ " (4.75 mm)
Max. $\frac{7}{32}$ " (5.56 mm)



Preparation

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



1 30°

Caution:

- If your car is equipped with air bags and/or anti-theft systems specific procedures may be required for connection and disconnection of the battery to install this product.
- Before attempting installation of this electronic component contact your car dealer or manufacturer to determine the required procedure and strictly follow their instructions.
- **FAILURE TO FOLLOW THE PROCEDURE MAY RESULT IN THE UNINTENDED DEPLOYMENT OF AIR BAGS OR ACTIVATION OF THE ANTI-THEFT SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY.**

Note:

- Various settings that have been stored in the memory in other on-board equipment (car navigation etc.) may be lost if the battery terminals are disconnected. Therefore, we recommend to make a record of or to back up the settings before disconnecting the terminals. After completing installation of the main unit, set the equipment again according to the record.

Identify All Leads

The first step in installation is to identify all the car wires you'll use when hooking up your sound system.

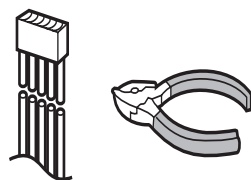
As you identify each wire, we suggest that you label it using masking tape and a permanent marker. This will help avoid confusion when making connections later.

Note:

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

Power Lead

If your car has a radio or is pre-wired for one: Cut the connector wires one at a time from the plug (leaving the leads as long as possible) so that you can work with individual leads.



Turn the ignition on to the accessory position, and ground one lead of the test bulb to the chassis.

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

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

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

Battery Lead

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

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

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

Speakers

Identify the car speaker leads. There are two leads for each speaker which are usually color coded. A handy way to identify the speaker leads and the speaker they are connected with is to test the leads using a 1.5 V AA battery as follows.

Hold one lead against one pole of the battery and stroke the other lead across the other pole. You will hear a scraping sound in one of the speakers if you are holding a speaker lead.

If not, keep testing different lead combinations until you have located all the speaker leads. When you label them, include the speaker location for each.

Antenna Motor

If your car is equipped with an automatic power antenna, identify the car motor antenna lead by connecting one bulb tester lead to the car battery lead and touching the remaining exposed wires from the cut radio connector plug one at a time. You will hear the antenna motor activate when you touch the correct wire.

Antenna

The antenna lead is a thick, black wire with a metal plug at the end.

Connect All Leads

Now that you have identified all the wires in the car, you are ready to begin connecting them to the stereo unit wires. The wiring diagram (page 70) shows the proper connections and color coding of the leads.

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

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

Important:

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

Ground

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

Speakers

Connect the speaker wires. See the wiring diagram (page 70) for the proper hookups. Follow the diagram carefully to avoid damaging the speakers and the stereo unit.

The speakers used must be able to handle more than 60 W (70 W **CQ-C9800U**) of audio power. If using an optional audio amplifier, the speakers should be able to handle the maximum amplifier output power. Speakers with low input ratings can be damaged. Speaker impedance should measure 4–8 Ω , which is typically marked on most speakers. Lower or higher impedance speakers will affect output and can cause both speaker and stereo unit damage.

Motor Antenna

Connect the car motor antenna lead to the dark blue motor antenna relay control lead. (Do not confuse the antenna lead with blue/white stripe lead for a power amplifier.)

Battery

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

Antenna

Connect the antenna by plugging the antenna lead into the antenna receptacle.

Equipment

Connect any optional equipment such as an amplifier, according to the instructions furnished with the equipment. Leave about 12" (30 cm) of distance between the speaker leads/amplifier unit and the antenna/antenna extension cord. Read the operating and installation instructions of any equipment you will connect to this unit.

Power

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

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

Final Installation

Lead Connections

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

Congratulations! After making a few final checks, you're ready to enjoy your new auto stereo system.

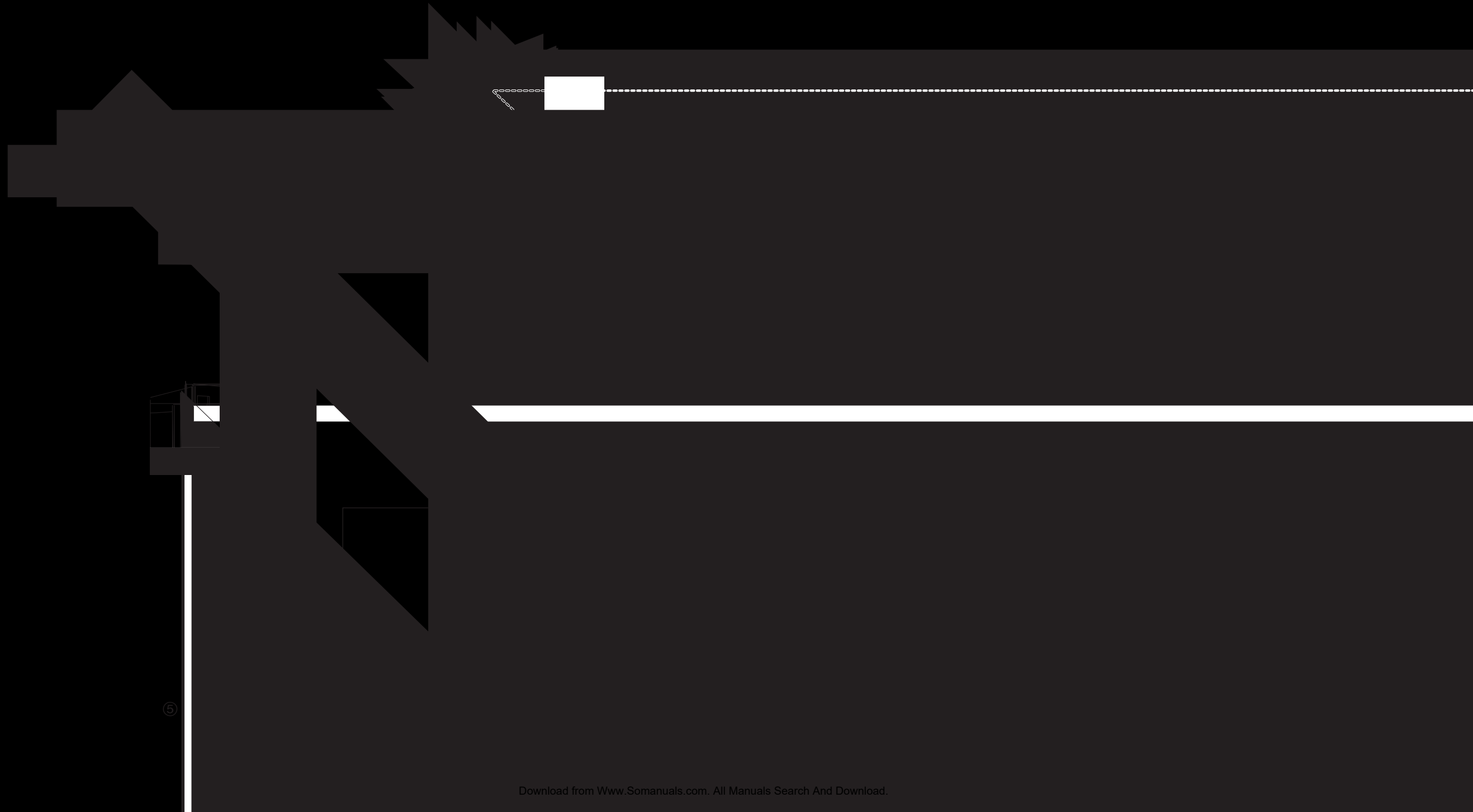
Final Checks

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

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

First complete the electrical connections, and then check them for correctness (page 70).

Remove the mounting collar



Electrical Connections

Caution:

- This product is designed to operate with a 12 V DC, negative ground battery system.
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove approximately 1/4" (5 mm) of protective covering from the ends of the leads before connecting.
- Do not insert the power connector into the unit until the wiring is completed.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.
- Remember, if your car has a drive computer or a navigation computer, the data of its memory may be erased when the battery terminals are disconnected.

Wiring Diagram

Accessory used for wiring

No.	Item	Q'ty
⑥	Power connector	1

DC/DC converter

- To ensure safety, ask a specialized contractor or the dealer from whom you purchased the equipment to install the equipment for you.
- Anchor the converter securely using the screws (option).

External amplifier control power lead (max. 500 mA)

This lead is for connection to the power amplifier.

Note:

- This lead is used for power control when an external power amplifier is connected. The power supply of a power amplifier will be activated when turning on the power of this unit.

Dual CD changer control lead

Note:

- Insulate this lead with vinyl tape when you do not connect it.

Antenna control lead

(to motor antenna) (max. 100 mA)

This lead is not intended for use with switch actuated power antenna.

Note:

- The power antenna extends automatically when the AM/FM radio mode is selected.

ACC power lead

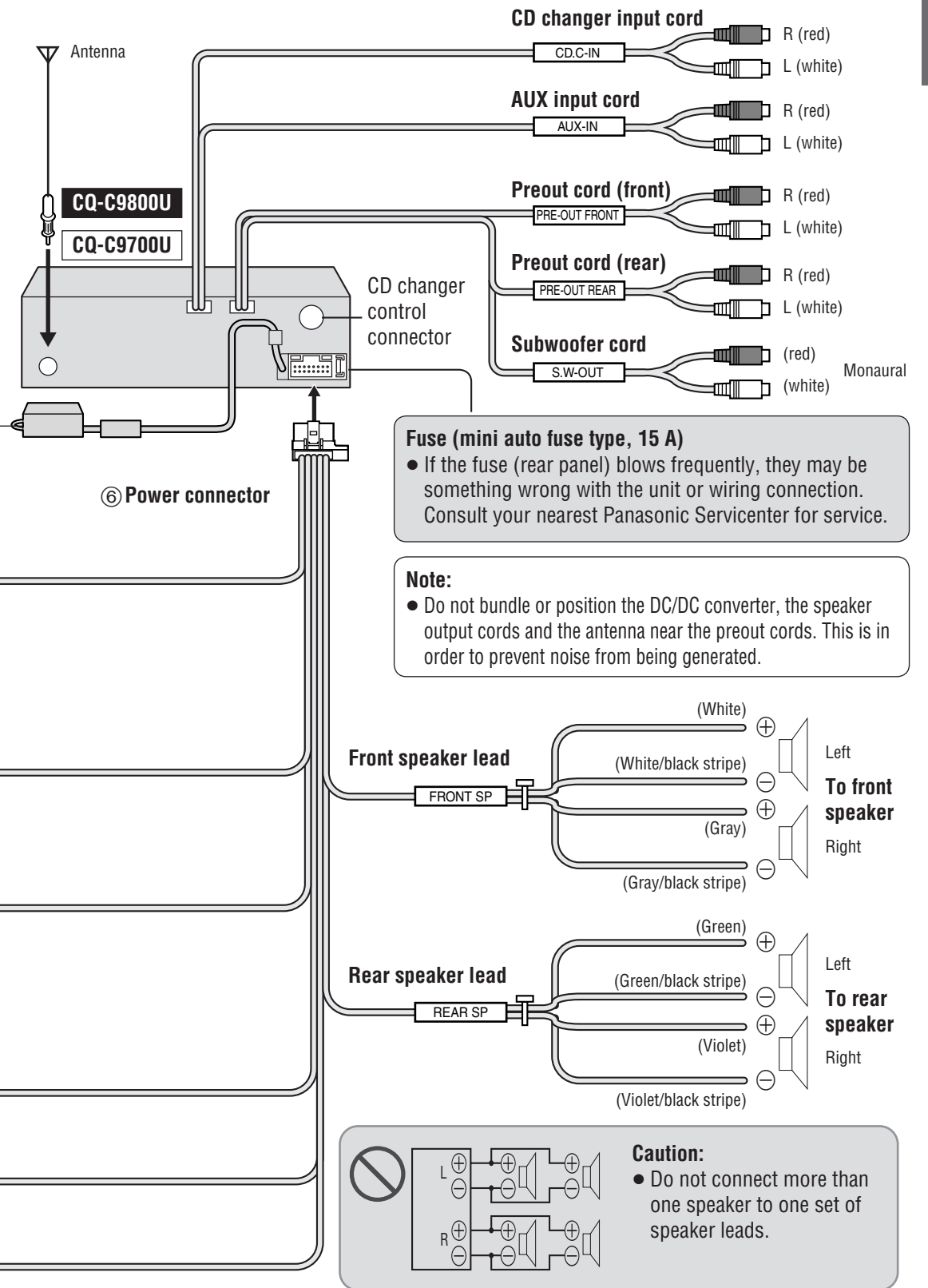
To ACC power, +12 V DC.

Battery lead

To the car battery, continuous +12 V DC.

Ground lead

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



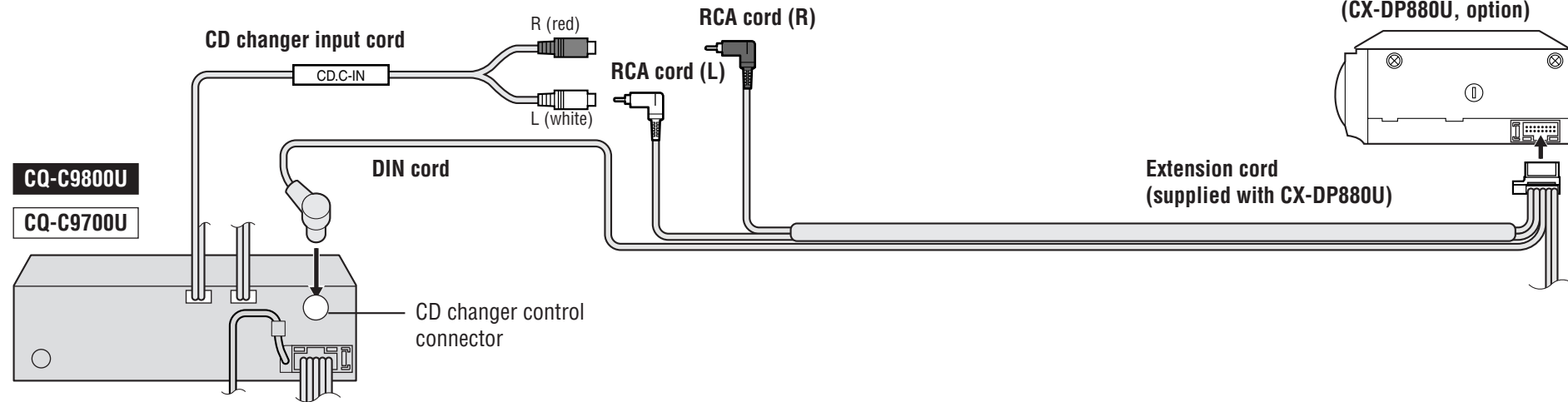
Caution:

- Do not connect more than one speaker to one set of speaker leads.

Electrical Connections (continued)

Upgrading the System 1

Example combination
 • CD changer (CX-DP880U, option)

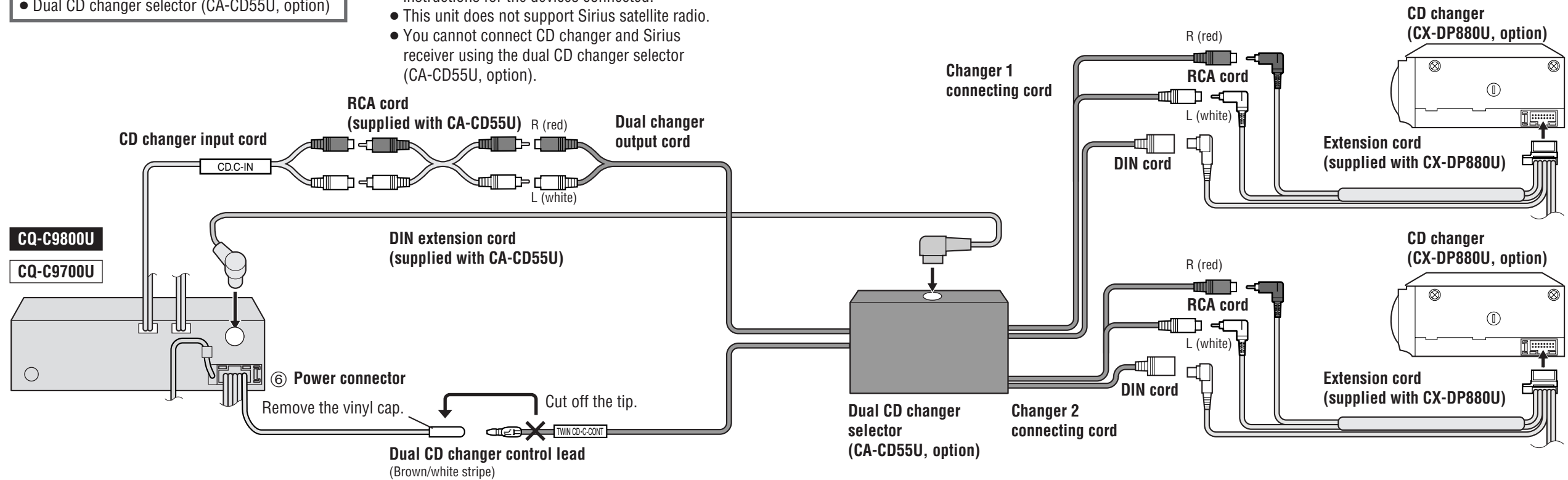


Note:
 • For wiring, carefully read the operating instructions for the devices connected.

Upgrading the System 2

Example combination
 • CD changer (CX-DP880U, option)
 • Dual CD changer selector (CA-CD55U, option)

Note:
 • For wiring, carefully read the operating instructions for the devices connected.
 • This unit does not support Sirius satellite radio.
 • You cannot connect CD changer and Sirius receiver using the dual CD changer selector (CA-CD55U, option).



Electrical Connections (continued)

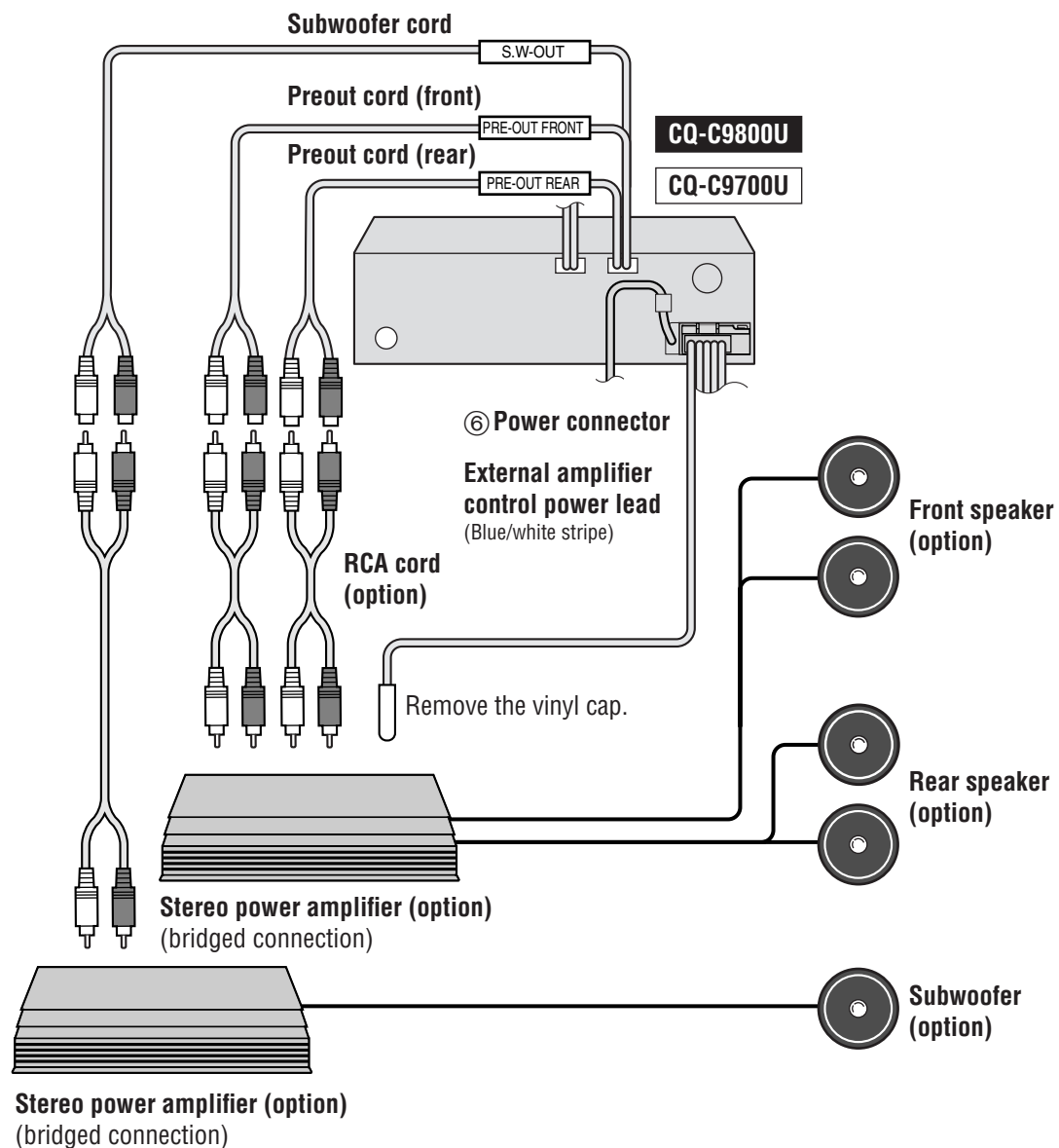
Speaker System Connection

Example combination

- Stereo power amplifier (option)
- Subwoofer (option)
- Front speaker, rear speaker (option)

Note:

- For wiring, carefully read the operating instructions for the devices connected.



Specifications

General

Power supply: DC 12 V (11 V–16 V), test voltage 14.4 V, negative ground

Current consumption: Less than 2.5 A (CD mode; 0.5 W 4-speaker)

CQ-C9800U

Maximum power output: 70 W×4 (at 1 kHz) volume control maximum

CQ-C9700U

Maximum power output: 60 W×4 (at 1 kHz) volume control maximum

Tone adjustment range: Bass: 28 dB at 20 Hz
Treble: 20 dB at 20 kHz

Equalizer center frequency: 62.5 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz (default)

Variable range of equalizer: –12 dB to 12 dB (2 dB step)

Speaker impedance: 4–8 Ω

Pre-amp output voltage: 5 V (CD mode; 1 kHz, 0 dB)

Subwoofer output voltage: 5 V

Pre-amp output impedance: 60 Ω

Subwoofer output impedance: 60 Ω

External input impedance: 10 kΩ (AUX IN)

External input sensitivity: Max. 2 V (AUX IN)

Dimensions (W×H×D): 7"×1¹⁵/₁₆"×6¹/₈" (178×50×155 mm)

Weight: 3 lbs. 12 oz (1.7 kg)

FM Stereo Radio

Frequency range: 87.9 MHz–107.9 MHz

Usable sensitivity: 13.2 dBf. (1.26 μV, 75 Ω)

50 dB quieting sensitivity: 19.2 dBf. (2.51 μV, 75 Ω)

Frequency response: 30 Hz–15 kHz (±3 dB)

Alternate channel selectivity: 75 dB

Stereo separation: 40 dB (1 kHz)

Image response ratio: 75 dB

IF response ratio: 100 dB

Signal to noise ratio: 62 dB

AM Radio

Frequency range: 530 kHz–1 710 kHz

Usable sensitivity: 25 dB/μV (11 V, S/N 20 dB)

CD Player

Sampling frequency: 8 times oversampling

Pick-up type: Astigma 3-beam

Light source: Semiconductor laser

Wave length: 780 nm

Frequency response: 20 Hz–20 kHz (±1 dB)

Signal to noise ratio: 106 dB

Total harmonic distortion: 0.01 % (1 kHz)

Wow and flutter: Below measurable limits

Channel separation: 86 dB

Above specifications comply with EIA standards.

Note:

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

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