

Panasonic[®]

松下電器

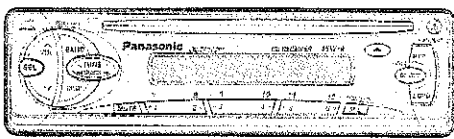
Removable Front Panel CD Player/Receiver

可攜帶式面板的CD放音／收音機

CQ-DP102W

Operating Instructions

使用說明書



COMPACT
disc
DIGITAL AUDIO

- Please read these instructions carefully before using this product and save this manual for future use.
- 使用本產品前，請務必閱讀這些說明並將本說明書保管好以備將來之用。

Safety Information

安全須知

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 YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Laser products:

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

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.

注意：

本產品是 I 級激光產品。
使用本說明書在此規定之外的方法進行控制、調節或操作將可能會遭受危險的輻射。
切勿擅自打開本機外殼或自行進行修理。應請有資格的技術人員進行維修。

激光產品：

波長： 780 nm
激光功率：有安全防護時，不會發射出危險的輻射。

警告：

為避免火災或電擊的危險，切勿使本機遭受雨淋或受潮。

為防止火災或電擊的危險，和出現幹擾，務必要使用所附的部件。

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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.

☐ Use this Product Safely

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 the parts. For repair, please consult your nearest authorized Panasonic service center.

For Installation

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

☐ Components

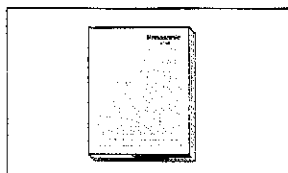
• This numbers in parentheses indicate the accessory quantities.



• CD player/receiver (1)



• Power connector (1)



• Operating instructions (1)

• Installation hardware (screws, cords, etc.) (see page 18)

Panasonic 歡迎您加入我們正在不斷擴大的聲響產品用戶大家庭。無疑本產品會使您平添很多的娛樂時間。我們擁有精密的電子和機械技術，我們使用精製零件進行生產，我們也以自己的工作而感到自豪的人進行組裝，這為我們良好的信譽奠定了基礎。如果您一旦切身體驗了我們所賦予本產品的質量、可靠性和價值，您也會為成為我們大家庭的一員而感到自豪。

☐ 使用本機的安全須知

駕駛時

要降低音量，以便能夠隨時應付道路和交通情況的變化。

洗車時

不要使本機，包括揚聲器和CD，遭到水淋或過度受潮。這會有造成短路、起火或其他故障的危險。

停車時

將車停在陽光直射之處會在車內產生過度的高溫。打開本機前，應先等車內冷卻後再開機。

使用正確的電源

本機採用 12 V 直流陰極接地蓄電池電源供電。

光碟機構

不要將硬幣或任何小物品插入。要將螺絲刀和其他金屬物品遠離光碟機構及光碟放置。

服務

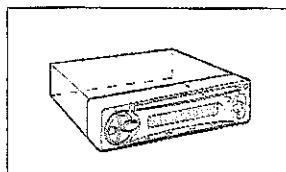
本產品由精密零組件做成。請勿嘗試拆解或調整任何零組件。如果需要修理，請與附近經過授權的 Panasonic 服務站查詢。

安裝須知

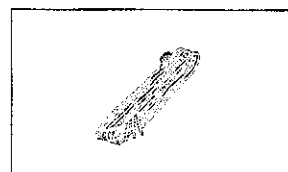
本機應安裝在水平之處，可將其前端抬起至一便利的角度，但不得超過 30°。

☐ 組件

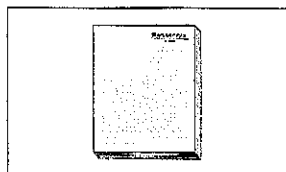
• 括弧中的數字表示附件的數量。



• CD 播放機/收音機 (1)



• 電源連接器 (1)



• 使用說明書 (1)

• 安裝用備件 (螺絲、導線等) (→ 第 18 頁)

Power and Sound Controls

Power

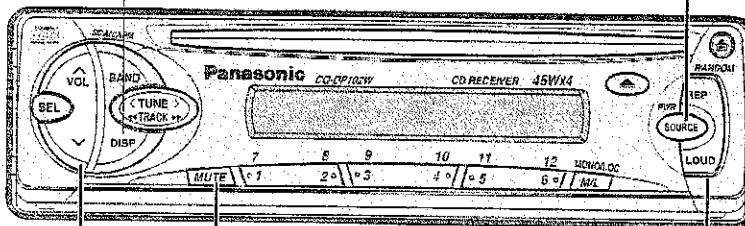
Turn the key in the ignition until the accessory indicator lights.

Power on: Press [SOURCE] (PWR).

Power off: Press [SOURCE] (PWR) again and hold.



[DISP] (Display)



Volume

[^ VOL]: Up

[v VOL]: Down

Press and hold for rapid adjustment.



Volume level (0 to 40)

Loudness

Press [LOUD] to enhance bass and treble tones at low or medium volume.



Press [LOUD] again to cancel.

Mute

Press [MUTE] to mute the sound completely.



Press [MUTE] again to cancel.

Display Change

Press [DISP] (display) to switch to the clock display.

When the power is off:



No display



Clock display

Anti-volume-blast circuit:

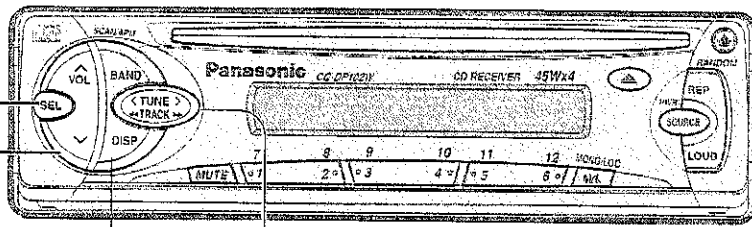
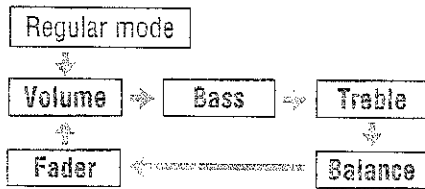
When the power is switched off and on again, the volume slowly rises to the previous level.

The anti-volume-blast circuit will not work when the volume level is set lower than position 20 on the display.

Clock Basics

Audio Mode (Bass/Treble/Balance/Fader)

① Press [SEL] to select the audio mode.



[DISP] (Display) [< TUNE], [> TUNE] (Hours, minutes)

② Press [\wedge VOL] or [\vee VOL] to change each level.

Bass:



Adjustable range: -12 to +12 (by 3 step)

Treble:



Adjustable range: -12 to +12 (by 3 step)

Balance:

R (right speaker) or L (left speaker)



Adjustable range: Balance center
1 to 15 (by 1 step)

Fader:

F (front speaker) or R (rear speaker)



Adjustable range: Fader center
1 to 15 (by 1 step)

Note:

- If no operation takes place for more than 5 seconds in audio mode (2 seconds in volume mode), the display returns to the regular mode.
- If a preamp output connector (rear) is used and the fader is set to Front, there will be no audio output.

The 24-hour system is used for the clock.

Initial Time

① Press [DISP] (display).



(Clock display.)

Hours

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



(Hours blink.)

③ Press [< TUNE] or [> TUNE].



(Hours set.)

Minutes

④ Press [DISP] (display).



(Minutes blink.)

⑤ Press [< TUNE] or [> TUNE].



(Minutes set.)

⑥ Press [DISP] (display).



(End.)

Note:

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

Time Reset

Press and hold [DISP] (display) for more than 2 seconds to activate the time setting mode to reset the time.

Then, repeat steps ③ to ⑥.

CD Player Basics

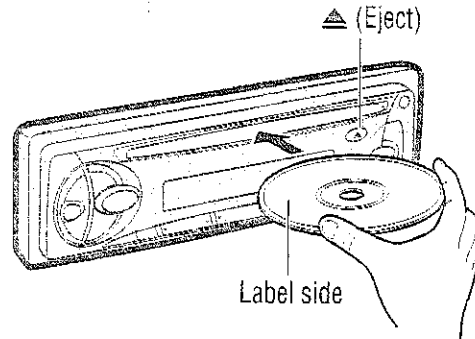
Disc Insert and Playback

Note:

- Do not insert a disc when "DISC" indicator lights.

Disc insert

Playback will start automatically after the player recognized the loaded disc as an ordinary music CD. (When a CD-R or CD-RW which has CD-DA formatted data as the same as an ordinary music CD is loaded, this player recognizes it as an ordinary music CD.)



"LOAD" will be displayed until the disc is loaded.

Stop and Disc Eject

Press [▲] (eject) to stop CD play and eject the disc. During disc ejection, "EJ" (eject) will be displayed.

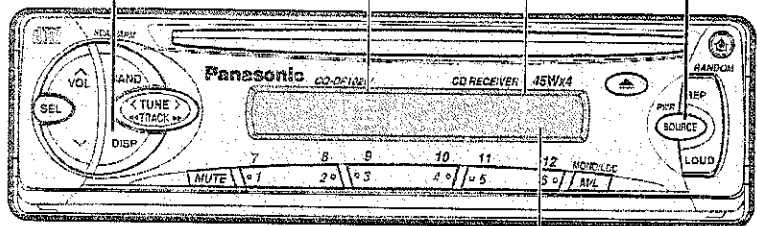
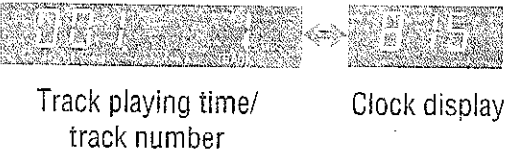
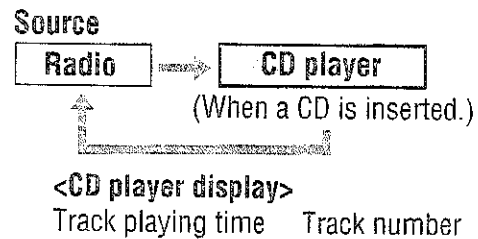
Listening to a CD

CD Player Mode (When a CD is in the player)

Press [SOURCE] to change to the CD play mode. Playback will start automatically.

Display Change

Press [DISP] (display) to switch to the clock display.



- Do not insert a disc when "DISC" indicator lights.
- Lights when the disc is loaded.

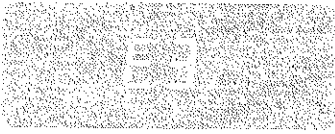
Error Display Messages (CD)



- Disc is dirty, or is upside down.
- A disc that has data other than CD-DA type is loaded.
- 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 service station to ask for repairs.

Caution:

- Only 12 cm CD, CD-DA data recorded CD-R and CD-RW discs are available for this unit.
- This unit does not support CD text display.
- This unit does not support MP3 disc playback.
- Refer to page 17 about notes on CD-Rs/RWs.
- This unit is not designed for any 8 cm disc.
- If you insert an 8 cm disc and can not eject it, turn ACC of your car off once and turn it on again, then press [▲] (eject).
- Do not use irregular shaped discs.
- Do not use discs that have a seal or label attached.
- Do not insert foreign matter into the disc slot.

Track Selection

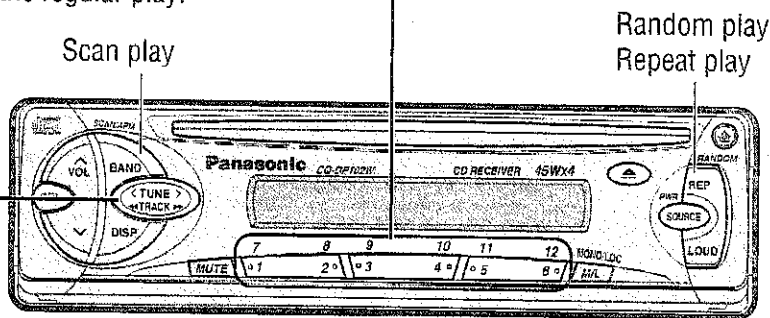
- [▶▶ TRACK]: Advance to the next track.
- [◀◀ TRACK]: Back to the beginning of the current track.
Back to the previous track.
(Press twice.)

Track Search

- Press and hold ...
- [▶▶ TRACK]: Fast forward
 - [◀◀ TRACK]: Fast backward
- Release to resume the regular play.

Direct Track Selection

- Press a track number button from [1] to [6].
The corresponding track starts playing.
- Press and hold a track number button from [7] to [12] ([1] to [6]) for more than 1 second.
The corresponding track starts playing.



Random play

- Press and hold [REP] (RANDOM) for more than 2 seconds.
All the tracks are played in random order.
 - Press and hold [REP] (RANDOM) again to cancel.
-
- Lights.

Scan play

- Press [BAND] (SCAN).
 - The first 10 seconds of each track on the disc are played in sequence.
 - Press [BAND] (SCAN) again to cancel.
-
- Blinks.

Repeat play

- Press [REP].
 - The current track is repeated.
 - Press [REP] again to cancel.
-
- Lights.

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

Trouble	Cause/Step
No power.	Car's engine switch is not on. ⇒ Turn your car's ignition switch to ACC or ON.
	Cables are not correctly connected. ⇒ Connect cables correctly.
	Battery cable is not correctly connected. ⇒ Connect the battery cable to the terminal that is always active.
	Accessory cable is not correctly connected. ⇒ Connect the accessory cable to your car's ACC source.
	Grounding wire is not correctly connected. ⇒ Connect the grounding wire to a metal part of the car.
	Fuse is burnt out. ⇒ Call the store where you purchased the unit, or your nearest service station and ask for fuse replacement.
No sound.	Mute is set to ON. ⇒ Set it to OFF.
	Cables are not correctly connected. ⇒ Connect cables correctly.
Noise.	Condensation (dew). ⇒ Wait for a while before use.
	A mobile phone is used near the unit. ⇒ Keep the mobile phone away from the unit.

□ Radio

Trouble

Cause/Step

Much noise in FM stereo and monaural broadcasts.

Station is too far, or signals are too weak.
⇒ Select other stations of higher signal level.

The motor antenna relay control lead is not connected correctly.
⇒ If there is a motor antenna in the car, connect the motor antenna relay control lead to the motor antenna lead that is installed in the car correctly.

The radio antenna is not extended enough.
⇒ Extend fully the radio antenna.

Preset station is reset.

Battery cable is not correctly connected.
⇒ Connect the battery cable to the terminal that is always active.

□ CD

Trouble

Cause/Step

Disc is in the CD compartment but no sound is made, or disc is ejected automatically.

Disc is upside down.
⇒ Place disc in the correct direction with the label side up.

- Disc is dirty.
- Disc has scratches.

⇒ Clean disc, referring to the section on "Notes on CD/CD Media (CD-R, CD-RW)".

A disc that has data other than CD-DA type is loaded.
⇒ Discs that have CD-DA type data should be used.

⇒ The unit may not successfully play back a CD-R/RW that is made in combination of writing software, a CD recorder (CD-R/RW drive) and a disc which are incompatible one another. Refer to instructions for the concerned devices for details.

Sound skips, bad sound quality. (e.g. caused by noise)

- Disc is dirty.
- Disc has scratches.

⇒ Clean disc, referring to the section on "Notes on CD/CD Media (CD-R, CD-RW)".

⇒ The unit may not successfully play back a CD-R/RW that is made in combination of writing software, a CD recorder (CD-R/RW drive) and a disc which are incompatible one another. Refer to instructions for the concerned devices for details.

Troubleshooting (Continued)

□ CD (Continued)

Trouble	Cause/Step
Sound skips due to vibration.	Mounting angle is over 30°. ⇒ Adjust mounting angle to less than 30°.
	Instable mounting. ⇒ Mount the unit securely with the mounting parts, referring to the section on installation.
Disc is not ejected.	<ul style="list-style-type: none"> ● Disc is defective. ● Mechanical trouble. ⇒ Press [▲] (eject). If normal operation is not restored, call the store where you purchased the unit or the nearest service station to ask for repairs.
Time is counted but no sound comes out.	The first track of a mix mode disc was reproduced. (Mix mode is a format in which data except music is recorded on the first track and music data is recorded on other than the first track in a session.) ⇒ Play back music data recorded on other than the first track.

□ Sound Setting

Trouble	Cause/Step
No sound from left, right, front or rear speakers.	Left and right balance, or front and rear balance is off on one side. ⇒ Adjust balance/fader setting as appropriate.
Left and right sounds are reversed in stereo listening.	Cables are not correctly connected. ⇒ Connect the cables correctly.
	The right speaker wire is connected to the left speaker and the left speaker wire to the right speaker. ⇒ Connect the speaker wires to the correct ones.

Maintenance

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

Product Servicing

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

Replace the Fuse

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

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

Maintenance

Care of the Unit

Cleaning this Unit

Use a dry, soft cloth to wipe.

Caution on Cleaning

Never use solvents such as benzine, thinner as they may mar the surface of the unit.

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

Do not play any ordinary music CDs with labels other than this one.



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 irregular 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

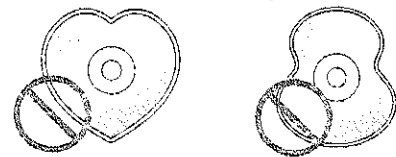
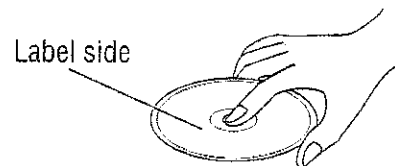
Use a dry, soft cloth to wipe from the center outward.

Caution on new discs

A new disc may have rough edges on its inner and outer perimeter. These may cause malfunction. Remove the rough edges using a pencil, etc.

Do not attach any seals or labels to your discs.

Do not write on the disc label in a heavy pen or ball-point pen stroke.



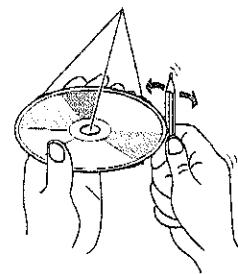
Do not use irregular shaped discs.

<Right>

<Wrong>



Rough edges



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.
- The unit may not successfully play back a CD-R/RW that is made in combination of writing software, a CD recorder (CD-R/RW drive) and a disc which are incompatible one another.
- 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.
- Be sure to observe the instructions of CD-R/RW disc for handling it.

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 qualified installer could cause damage to the electrical system and could result in serious personal injury or death.

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

Overview

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

(Please refer to the "WARNING" statement above.)

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

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

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.

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

- **Panasonic Servicenter List for Service Directory** ...Keep for future reference in case the product needs servicing.
- **Installation Hardware**...Needed for in-dash installation.

Required Tools

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

12 V DC
Test bulb

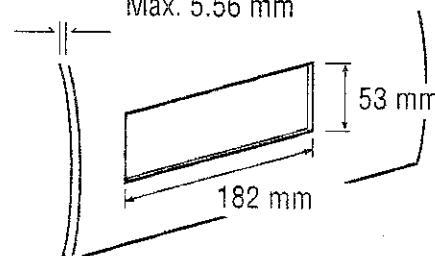
Electrical
tape

Side-cut
pliers



Dashboard Specifications

Thickness Min. 4.75 mm
Max. 5.56 mm



☐ Identify All Leads

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

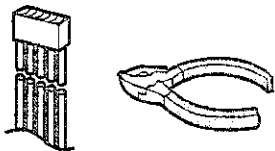
As you identify each wire, we suggest that you label it using masking tape and a permanent marker. This will help avoid confusion when making connections later.

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 24) 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.

Installation Guide (Continued)

Speakers

Connect the speaker wires. See the wiring diagram (→ page 24) for the proper hookups. Follow the diagram carefully to avoid damaging the speakers and the stereo unit.

The speakers used must be able to handle more than 45 W of audio power. If using an optional audio 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 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

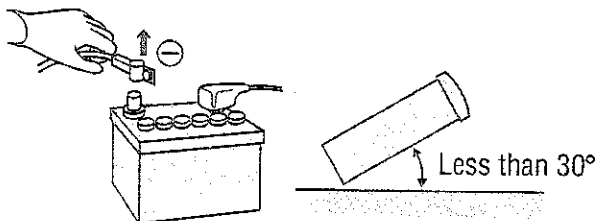
1. Make sure that all wires are properly connected and insulated.
2. Make sure that the stereo unit is securely held in the mounting collar.
3. Turn on the ignition to check the unit for proper operation.

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

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.

- Disconnect the cable from the negative ⊖ battery terminal (see cautions below).
- Unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

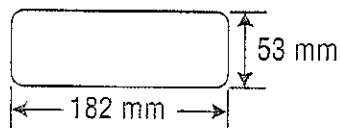


Caution:

- Do not disconnect the battery terminals of a car with a 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

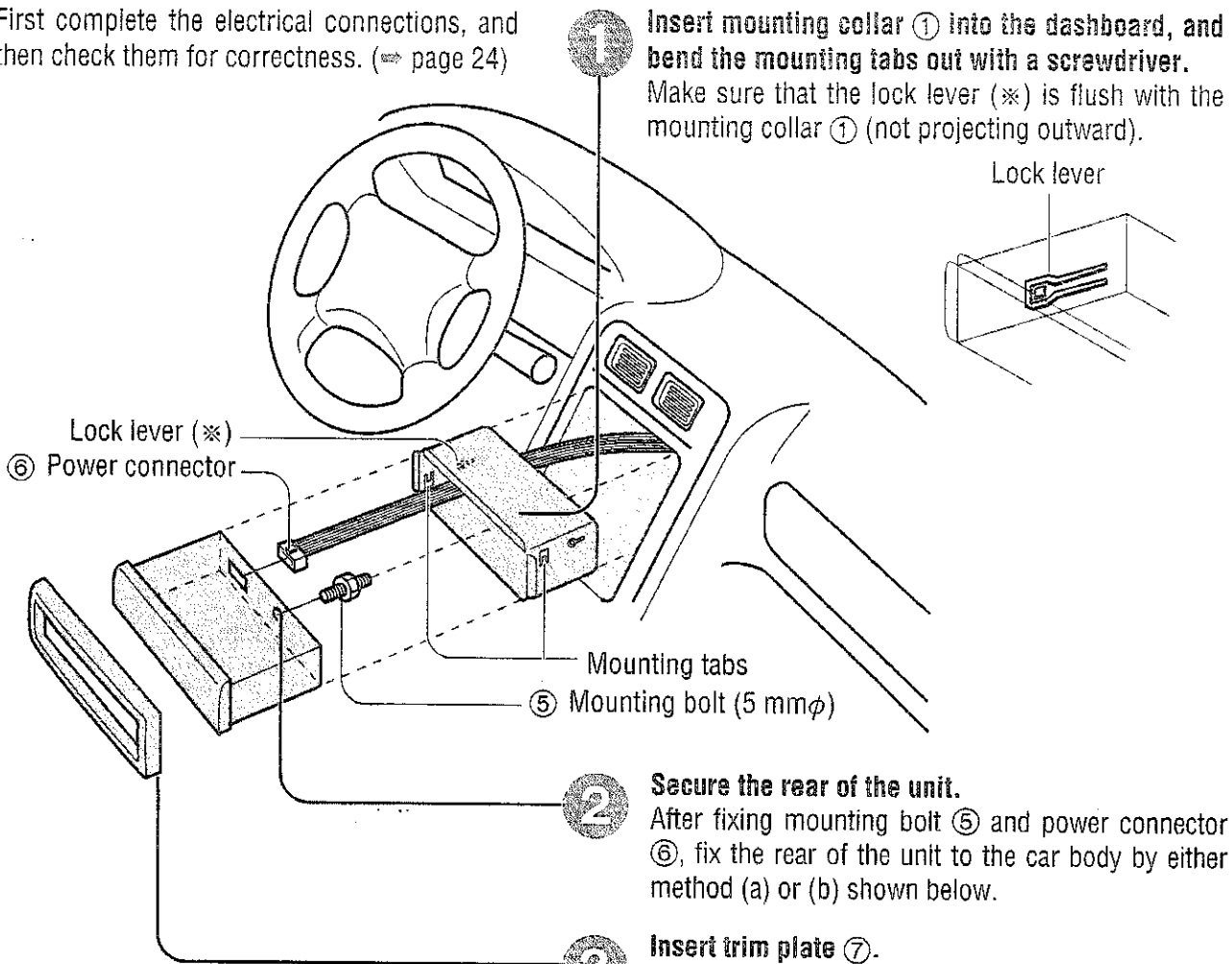
Installation Opening



This unit can be installed in any dashboard having an opening as shown above. The dashboard should be 4.75 mm–5.56 mm thick in order to be able to support the unit.

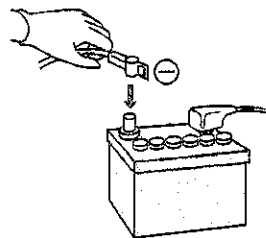
Installation Procedures

First complete the electrical connections, and then check them for correctness. (⇒ page 24)

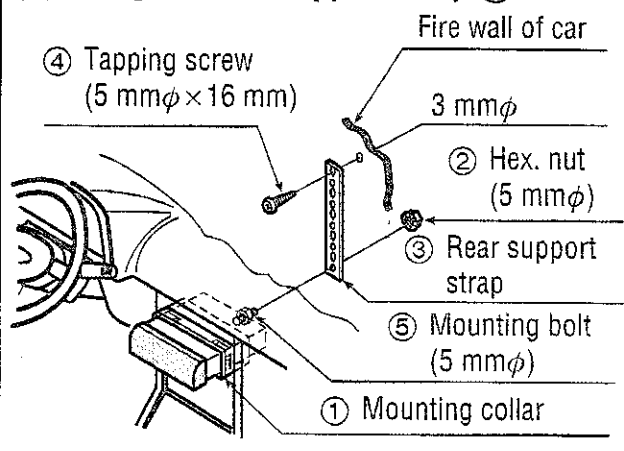


Note:

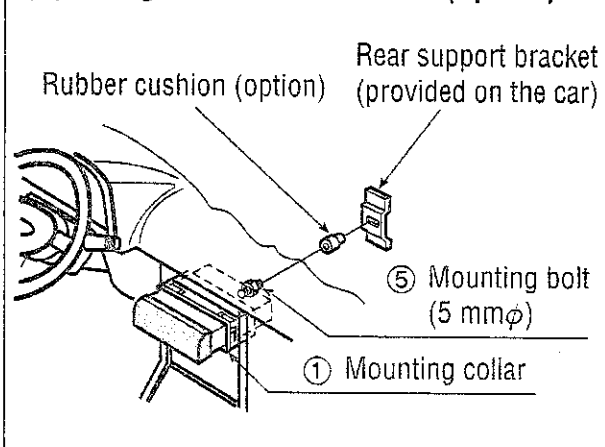
- To securely install the unit, fully bend a number of the tabs so that there is no rattling.
- Be sure to fasten the unit securely when joining it with the mounting collar ①.



(a) Using the rear support strap ③




(b) Using the rubber cushion (option)

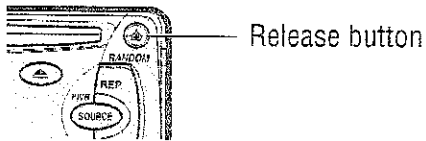


Installation Guide (Continued)

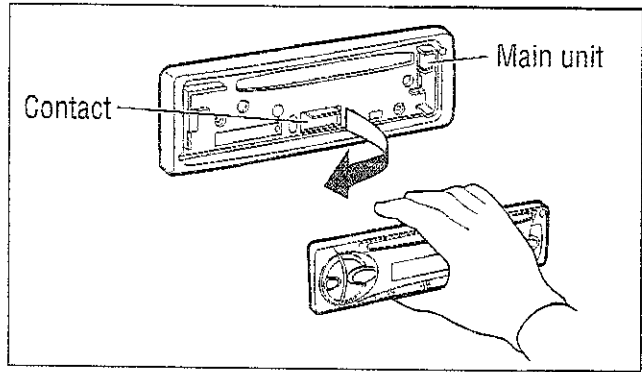
Remove the Unit

Switch off the power of the unit.

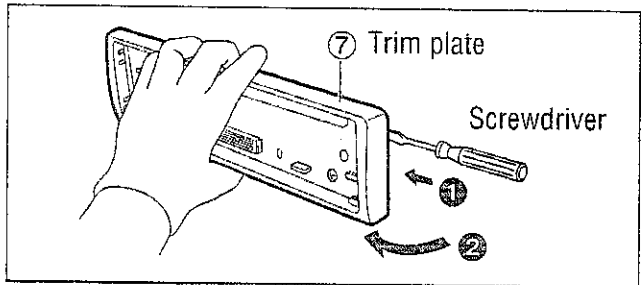
- 1 Remove the removable face plate.
 - 1 Press [] (release button). The removable face plate will be released.



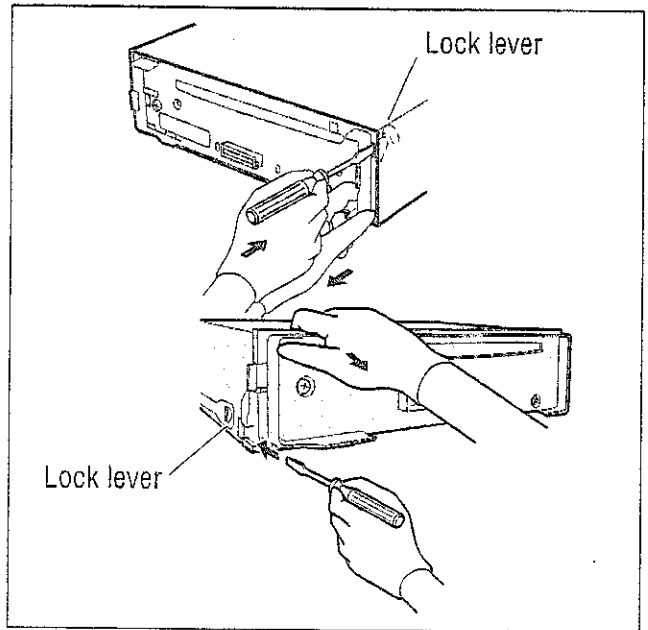
- 2 Pull on the right side of the unit.



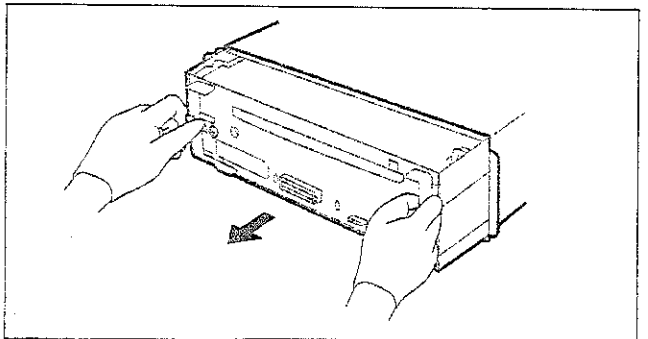
- 2 Remove the trim plate 7 with a screwdriver.



- 3 Pull out the unit while pushing down the lock lever with a screwdriver.

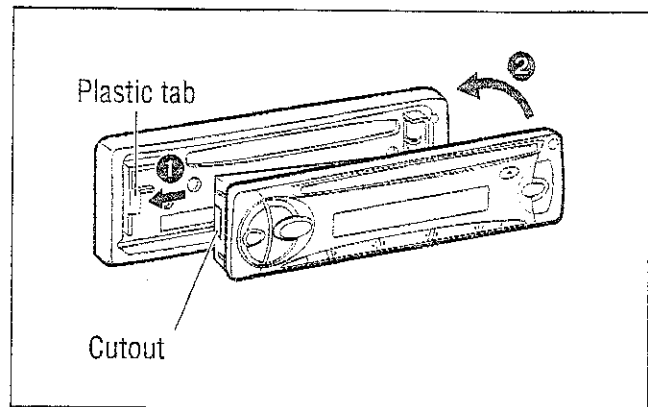


- 4 Remove the unit pulling with both hands.



Install Removable Face Plate

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



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 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.
- Do not apply a strong downward force onto the face plate and do not put anything on it while it is open, or it might be damaged.

Electrical Connections

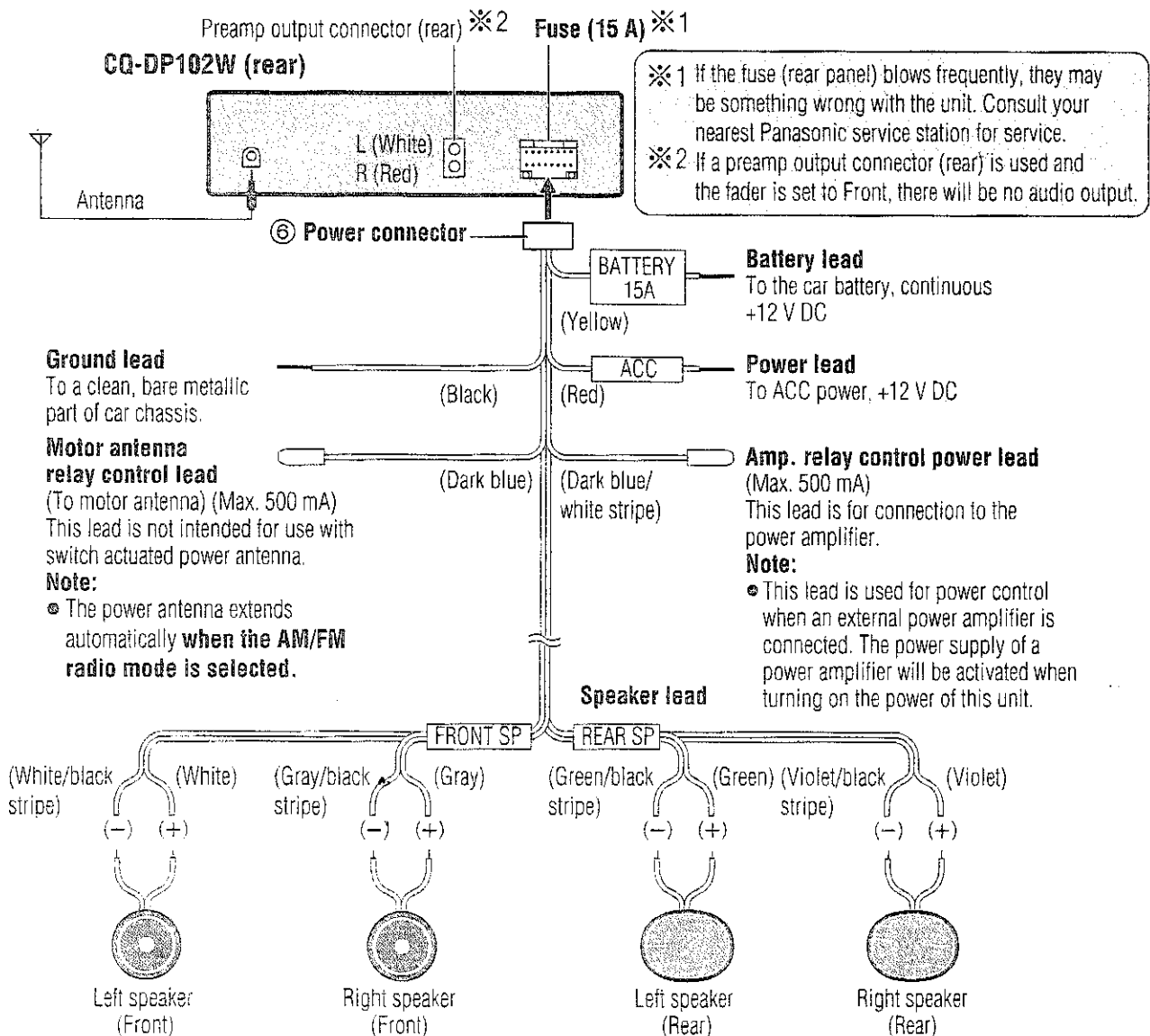
Caution:

- 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 wiring diagram below.
- Remove approximately 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.

Supplied hardware

No.	Item	Q'ty
⑥	Power connector	1

Wiring Diagram



Specifications

□ General

Power supply:	12 V DC (11 V–16 V), test voltage 14.4 V, negative ground
Current consumption:	Less than 2.2 A (CD play mode; 0.5 W×4 channels)
Maximum power output:	45 W×4 channels at 1 kHz, volume control maximum
Tone adjustment range:	
Bass:	±12 dB at 100 Hz
Treble:	±12 dB at 10 kHz
Suitable speaker impedance:	4–8 Ω
Preamp output voltage:	2.0 V (CD play mode; 1 kHz, 0 dB)
Output impedance:	600 Ω
Dimensions (W×H×D):	178×50×150 mm
Weight:	1.4 kg

□ FM Stereo Radio

Frequency range:	87.5 MHz–108.0 MHz
Usable sensitivity:	11.0 dBf. (1.25 μV, 75 Ω)
50 dB quieting sensitivity:	15.2 dBf. (1.6 μV, 75 Ω)
Frequency response:	30 Hz–15 kHz (±3 dB)
Alternate channel selectivity:	75 dB
Stereo separation:	42 dB (1 kHz)
Image response ratio:	75 dB
IF response ratio:	100 dB
Signal/noise ratio:	70 dB

□ AM Radio

Frequency range:	531 kHz–1 602 kHz
Usable sensitivity:	28 dB/μV (25 μV, S/N 20 dB)

□ CD Player

Sampling frequency:	32 times oversampling
DA converter:	MASH-1 bit/4 DAC system
Error correction system:	Panasonic super decoding algorithm
Pick-up type:	Astigma 3-beam
Light source:	Semiconductor laser
Wave length:	780 nm
Frequency response:	20 Hz–20 kHz (±1 dB)
Signal/noise ratio:	96 dB
Total harmonic distortion:	0.01 % (1 kHz)
Wow and flutter:	Below measurable limits
Channel separation:	75 dB

Note:

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