

Operating Instructions

操作說明書

[CQ-DFX338EW]

High-Power CD Player/Receiver

大功率鐳射唱機 / 收音機

CQ-DFX338EW



(CQ-DFX338EW)

Panasonic®

松下電器

Before operating this set, please read these instructions completely.

操作本機之前，請熟讀本說明書。

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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.

Precautions

Volume Level

For your driving safety, keep the volume level low enough to be aware of road and traffic conditions.

Car Washing

To avoid electrical short circuits which may cause fire or other damage, do not expose this equipment (including the speakers and CDs) to water or excessive moisture.

Service

This unit is made of precision parts. Do not attempt to disassemble or adjust any parts. For repair, please consult your nearest authorized Panasonic Service Center.

Power Supply

This equipment is designed to be used in a car having 12-Volt 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.

Car Ventilation

If your car is parked for several hours in direct sun-light, the temperature inside the car may become very high. It is advisable to drive the car for a while until the interior cools down before switching the unit on.

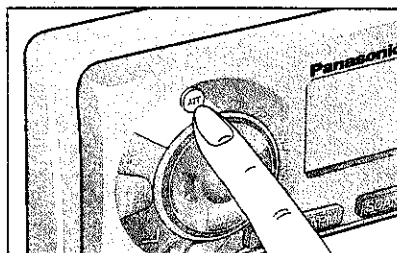
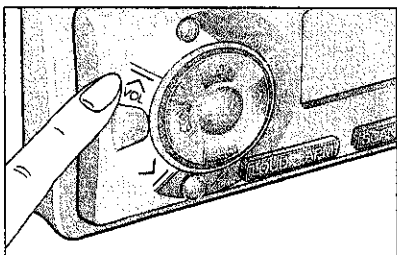
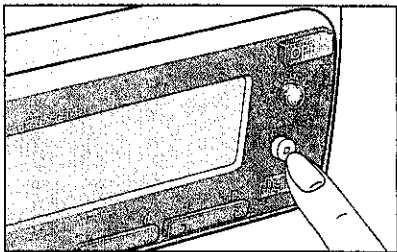
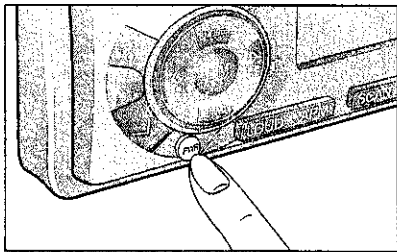
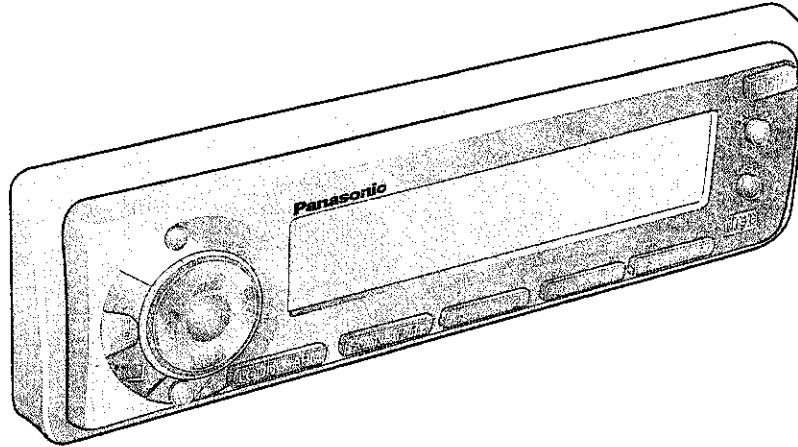
About Preset Memory

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

For Installation

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

Power and Sound Controls



Power

Turn the key in the ignition until the accessory indicator lights.
Press [**PWR**] to switch on the power.
Press [**PWR**] again to switch off the power.

Note:

When the power is switched on for the first time, a demonstration appears on the display. To cancel this display, press **DISP[D]**.
When a CD is inserted with all the power connections performed, the unit power will be automatically turned on, CD loading begins and the CD is played.

Volume

- Press [**^ VOL**] or [**∨ VOL**] to increase or decrease the volume.



- Press [**^ VOL**] or [**∨ VOL**] for more than 0.5 seconds to change the numeric level in sequence.

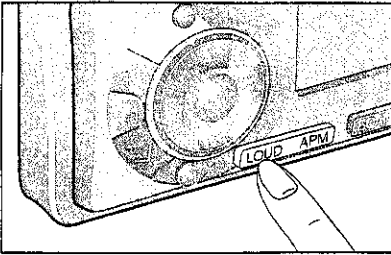
Attenuator

- Press [**ATT**] to decrease volume to about 1/10 of its previous level.



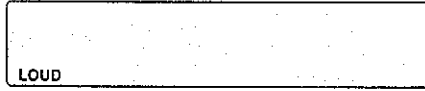
- Press [**ATT**] again to cancel.

Note: This unit is equipped with an anti-volume-blast circuit which serves as an automatic volume level adjuster so that you will not be deafened by sudden loud volume level. This system operates as follows. When [**PWR**] is first pressed to switch the unit on, the volume level is low. After that, the volume level will gradually return to the same level as the one before the power was turned off last time. The anti-volume-blast circuit will not work when the volume level is set lower than position 20 on the display.

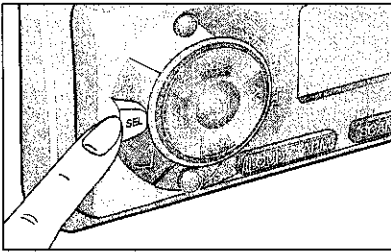


Tone Enhancement

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



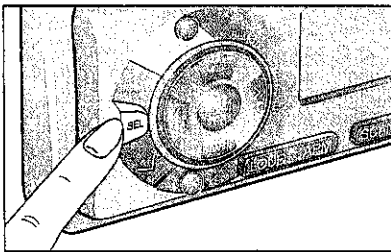
- Press [**LOUD**] again to cancel.



Audio Mode

Press [**SEL**] to change the audio mode setting as follows.

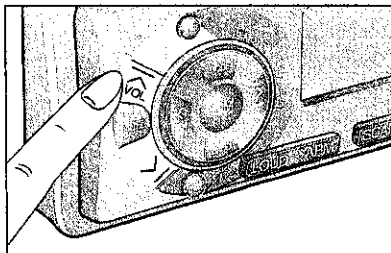
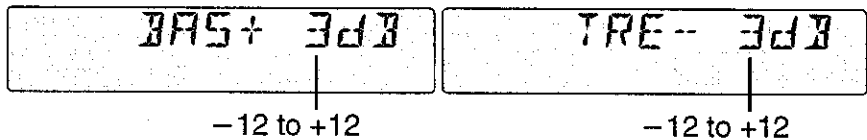
Regular Mode → VOLUME → BASS → TREBLE → BALANCE
↑ ←
FADER



Bass and Treble

Press [**SEL**] to change to the bass (or treble) mode.

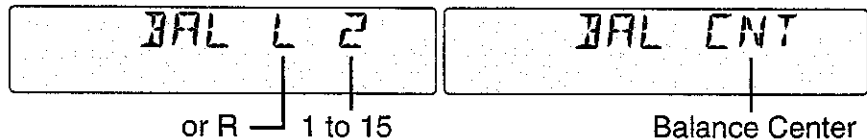
Press [**^ VOL**] or [**∨ VOL**] to increase or decrease the bass (or treble) level.



Balance

Press [**SEL**] to change to the balance mode.

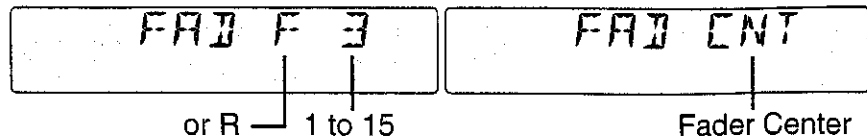
Press [**^ VOL**] or [**∨ VOL**] to shift the sound volume to the left or right speakers.



Fader

Press [**SEL**] to change to the fader mode.

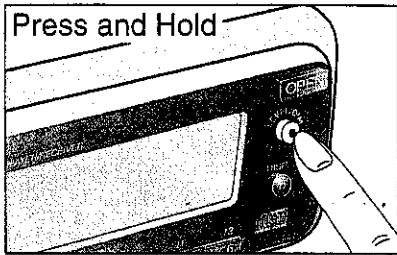
Press [**^ VOL**] or [**∨ VOL**] to shift the sound volume to the front or rear speakers.



Note: If no operation is performed in the audio mode for 5 seconds (or 2 seconds in the VOL mode), the display will return from the audio mode (BAS/TRE/BAL/FAD) to the regular operation mode.

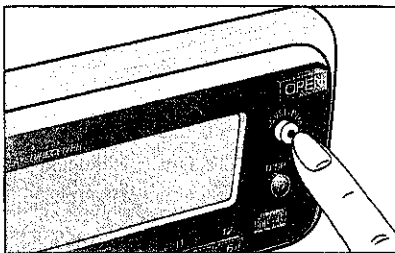
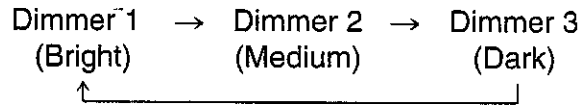
Power and Sound Controls (continued)

Display Controls



Dimmer

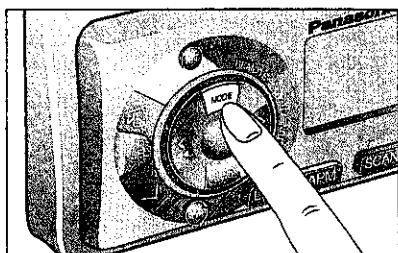
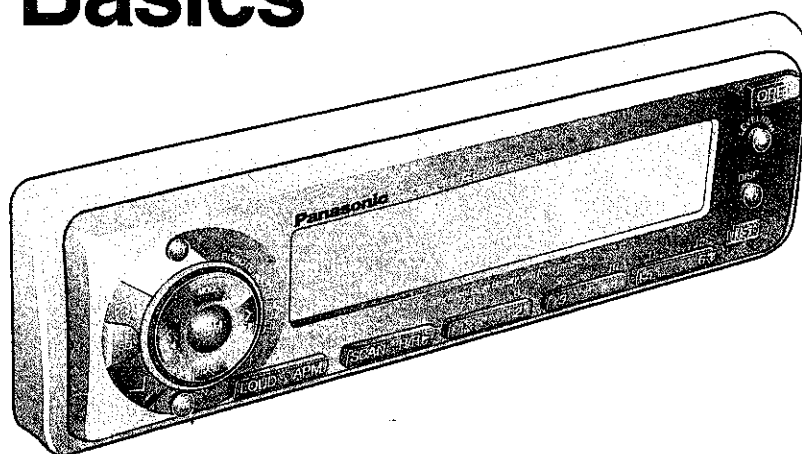
Press and hold **LEVEL/DIM[•]** for more than 2 seconds to change the dimmer level from one level to another through the cycle of 3 levels as follows.



Level Meter Display Switching

While the power is on, this indicates the strength of the radio or CD sound source signals. Press **LEVEL/DIM[•]** to change the Level meter setting from one Level meter to another through the cycle of 6 kinds mode.

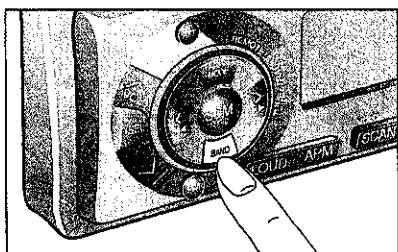
Radio Basics



Tuner Mode

Press [MODE] to change the operation mode setting as follows.

Tuner ↔ CD player
(When a disc is inserted)

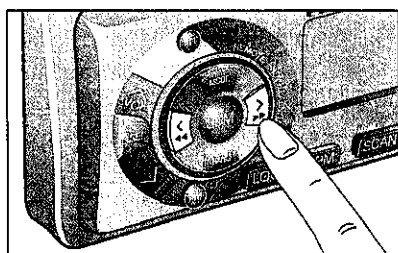


Band

Press [BAND] to change the band setting as follows.

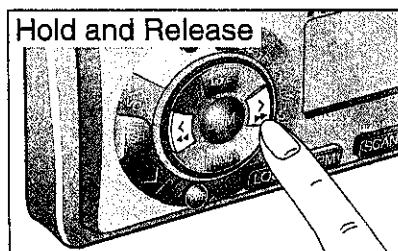
FM1 → FM2 → FM3 → AM
↑

"STEREO" indicator lights during reception of a stereo broadcast.



Manual Tuning

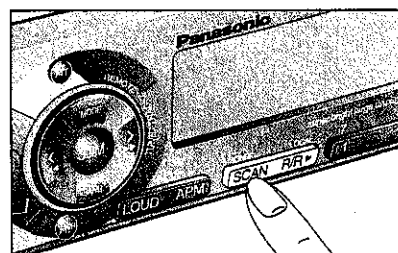
Press [> TUNE] or [< TUNE] to tune in a higher or lower frequency.



Hold and Release

Seek Tuning

Press and hold [> TUNE] or [< TUNE] for more than 0.5 seconds, then release it. Tuning will automatically stop when the signals of the next broadcast station are received.



MONO/LOCAL Selection

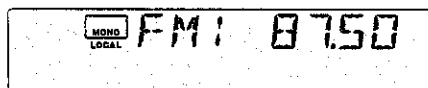
- At the MONO setting, the amount of interference heard when weak signals are received from an FM broadcast station is significantly decreased.
- At the LOCAL setting, the station search stops automatically as soon as strong signals are received.

Press [MONO] to switch between stereo and MONO mode as follows.

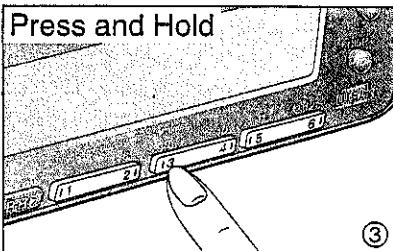
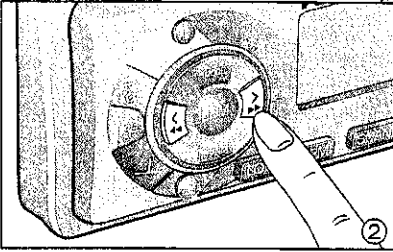
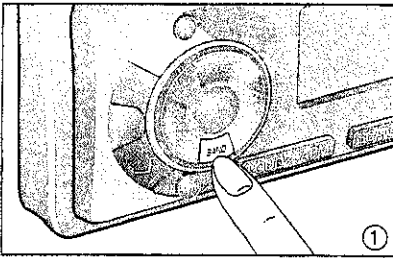
MONO OFF ↔ MONO ON

Press [LOCAL] to switch on or off the LOCAL mode as follows.

LOCAL OFF ↔ LOCAL ON



Radio Basics (continued)

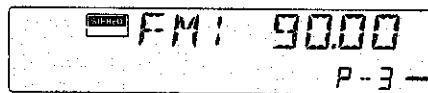


Station Preset

FM1, FM2, FM3 and AM can save a maximum 6 stations each in their preset station memories.

Manual Station Preset

- ① Press [BAND] to select a desired band.
- ② Use manual or seek tuning to find a station which is to be preset in the memory.
- ③ Press and hold one of the preset buttons [1] to [6] for more than 2 seconds until the display blinks.



P-3 — Preset number

Note: You can change the memory presetting by repeating the above procedure.

Tuning in a Preset Station

Press the corresponding preset button [1] to [6] to tune in a preset station.

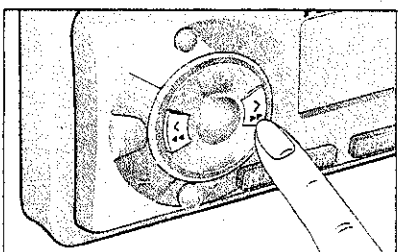
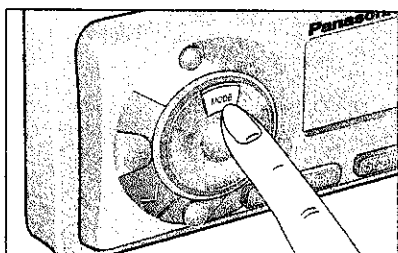
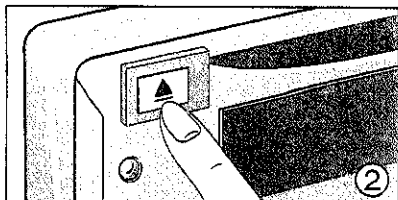
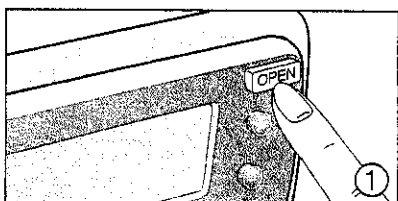
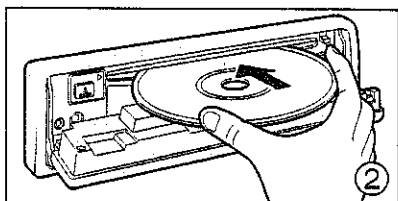
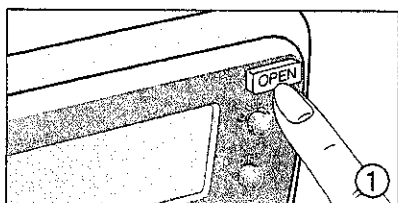
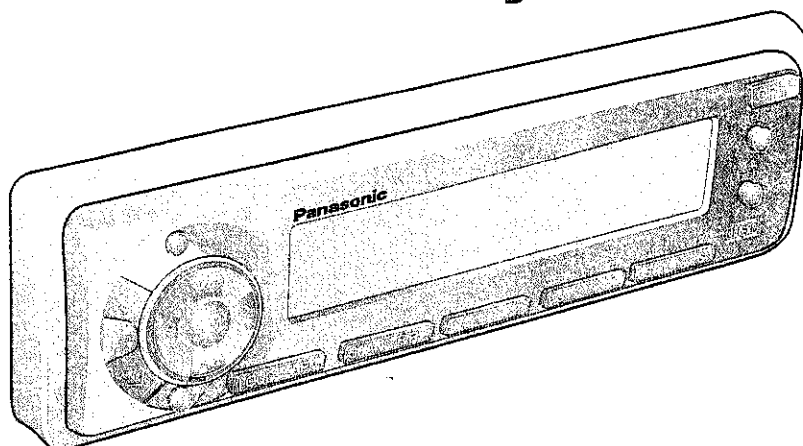
Auto Station Preset

Select the band, press [APM] (Auto Preset Memory).

- The 6 strongest available stations will be automatically saved in the memory on preset buttons [1] to [6].
- Once set, the preset stations are sequentially scanned for 5 seconds each.
- Press the corresponding preset button for the broadcast you want to listen to.

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

Compact Disc Player Basics



Loading a Disc

- ① Press [OPEN] to open the front panel.
- ② Insert a disc with its label side facing up.
After the disc is inserted, close the front panel manually.

Notes:

- The ATT is automatically turned on when a disc is inserted and the CD mode is selected.
- The ATT is automatically turned off when the front panel is closed.

Ejecting a Disc

- ① Press [OPEN] to open the front panel.
- ② Press [\blacktriangle] to eject the disc. After the disc is removed, close the front panel manually. The previous operation mode will resume.

Note:

Always remove the disc from the unit when the CD player is not being used.

Note: You can eject the disc by pressing [\blacktriangle], even when the power is off.

Starting CD Play

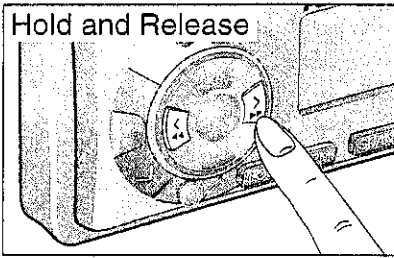
Press [MODE] to change to the CD play mode as follows, after a disc has been inserted. Play will start automatically.

Tuner \longleftrightarrow CD player
(When a disc is inserted)

Track Selection

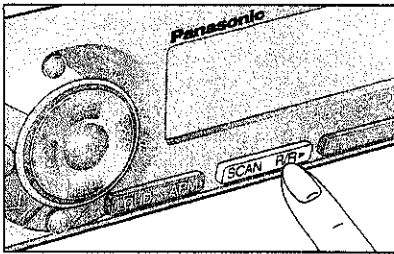
- Press [▶▶ TRACK] to advance to the next track.
- Press [◀◀ TRACK] to start play from the beginning of the track now playing.
- Press [▶▶ TRACK] or [◀◀ TRACK] repeatedly to skip the desired number of tracks.

Compact Disc Player Basics (continued)



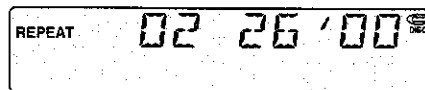
Track Search

- Press and hold [▶▶ TRACK] or [◀◀ TRACK] for more than 0.5 seconds to advance or reverse through a track.
- Release [▶▶ TRACK] or [◀◀ TRACK] to resume regular CD play.

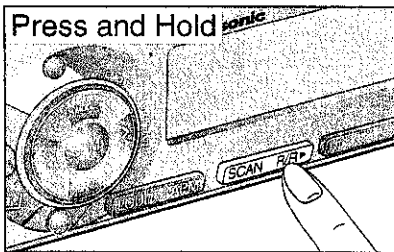


Track Repeat

Press [R/R▶] to repeat the current selection.

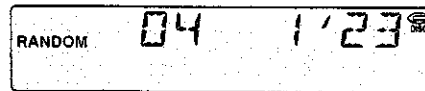


Press [R/R▶] again to cancel.

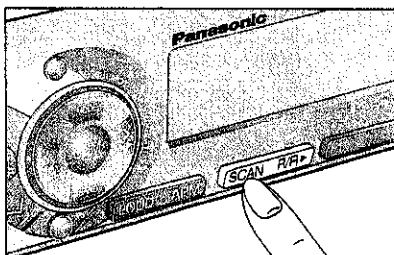


Random Selection

Press and hold [R/R▶] for more than 2 seconds. All the available tracks will be played in a random sequence.

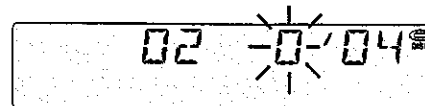


Press and hold [R/R▶] for more than 2 seconds again to cancel.

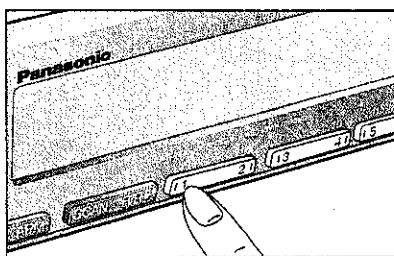


Track Scan

Press [SCAN]. The display blinks, and the first 10 seconds of each track on the CD are played in sequence.



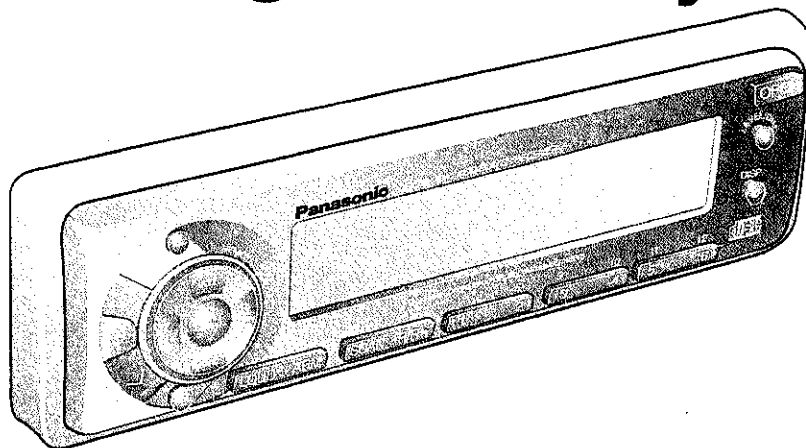
Press [SCAN] again to cancel.



Direct Selection by Track Number

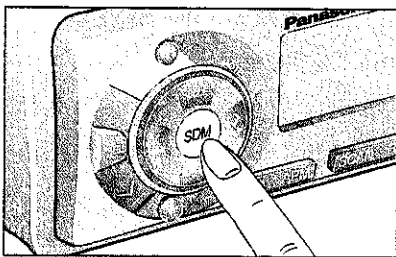
- Press a track number button from [1] to [6]. The corresponding track starts playing.
- Press and hold a track number button from [7] to [12] ([1] to [6]) for more than 1 second. The corresponding track starts playing.

Sound Design Memory



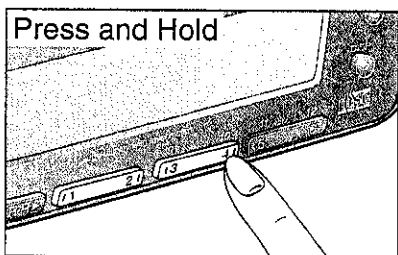
Sound Design Memory

A favorite level setting of each audio mode (except for VOL and ATT) can be memorized and recalled.



Sound Design Memory Mode Selection

Press [SDM] to select the sound design memory mode.



Sound Design Memory Input

To preset a favorite level setting, press and hold the corresponding preset memory button [1] to [4] in sound design memory mode until the display blinks.

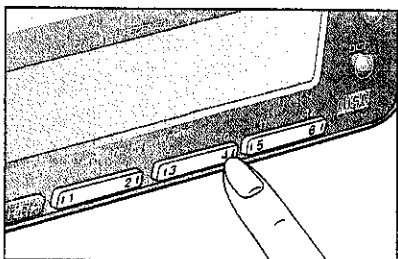


Preset button [5] and [6] are set as follows and they can not be changed.

Preset button [5] : recommendable sound setting

Preset button [6] : BASS, TREBLE.....0 dB

BALANCE, FADER.....center

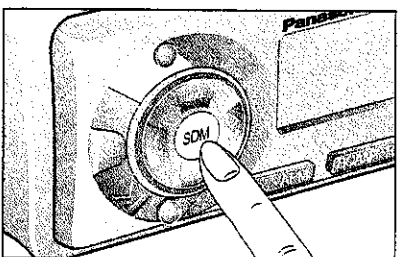


Sound Design Memory Call

When a desired preset memory button is pressed in sound design memory mode, the corresponding sound setting is recalled.



The selected preset number is displayed.



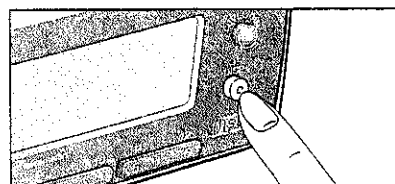
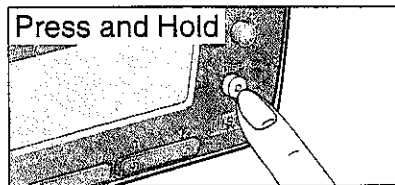
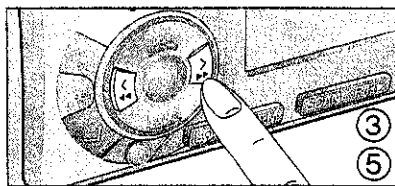
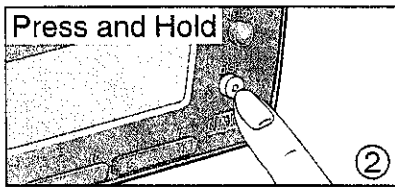
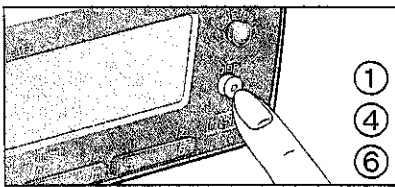
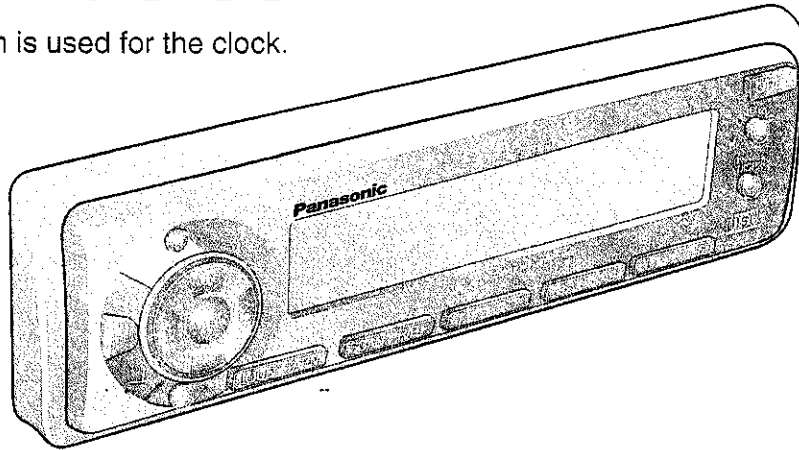
Canceling of Sound Design Memory Mode

Press [SDM] to changed to the normal mode.

Note: When the sound design memory mode is selected but no operation is made within 5 seconds, the mode will return to the previous mode.

Clock Basics

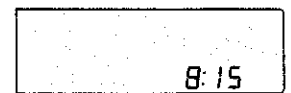
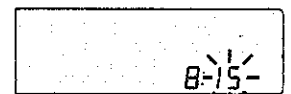
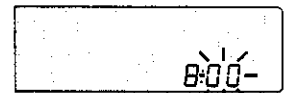
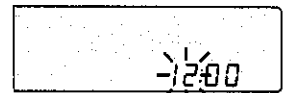
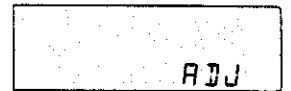
The 12-hour system is used for the clock.



Initial Time

The **DISP[D]** button will not work while the CD player is set to the scan play mode. Cancel the scan play mode before pressing **DISP[D]**.

- ① Press **DISP[D]**.
"ADJ" appears on the display.
- ② Press and hold **DISP[D]** again for more than 2 seconds. "12" blinks, and the time setting mode is activated.
- ③ Press [**> TUNE**] or [**< TUNE**] to set the hour.
- ④ Press **DISP[D]** again to proceed with the minutes setting.
- ⑤ Press [**> TUNE**] or [**< TUNE**] to set the minute.
Press [**> TUNE**] or [**< TUNE**] for more than 0.5 seconds to change numbers on the display in sequence.
- ⑥ Once the time has been set, press **DISP[D]**.



Time Reset

Press and hold **DISP[D]** for more than 2 seconds to activate the time setting mode to reset the time. Then, repeat steps ③ to ⑥ above.

Clock Display

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

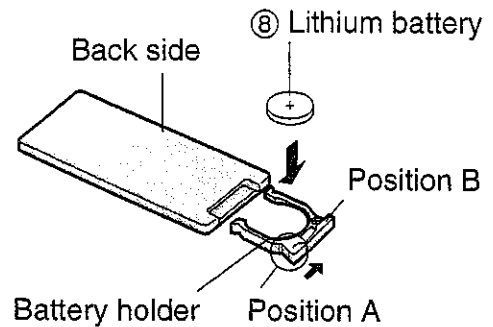
- | | | | |
|---------------|------------------------|---|-------|
| In Tuner Mode | Presets | ↔ | CLOCK |
| In CD Mode | No Display (Clock Off) | ↔ | CLOCK |

Note: The power must be switched off before leaving the car if it does not have an accessory.

Remote Control Unit Basics

Battery Replacement

1. Remove the battery holder.
Take hold of the holder at position B and pull it out to remove the battery by pushing position A in the direction shown by the arrow.
2. Replace the battery.
Set a new battery properly with its (+) side facing up as shown in the figure.
3. Insert the battery holder.
Push the battery holder back into its original position.



Battery Notes

Remove and dispose of an old battery immediately.

Battery Information:

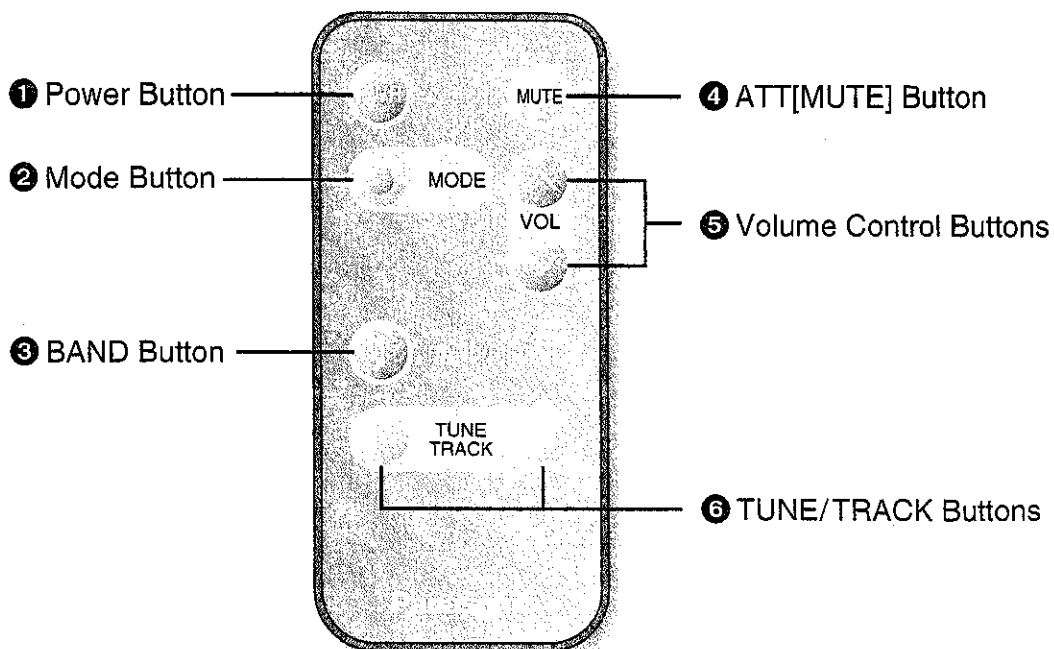
- Battery type: Panasonic lithium battery (CR2025)
- Battery life: 6 months with normal use (at room temperature)

Caution:

Improper use of the battery may cause overheating, an explosion or ignition, resulting in injury or a fire. Battery leakage may damage the unit.

- Do not disassemble or short the battery. Do not throw a battery into a fire.
- Keep batteries out of the reach of children to avoid the risk of accidents.

Main Controls



Remote Control Unit Basics (continued)

How to Operate the Controls

Point the remote control unit at the main unit's sensor.

General

Power

① PWR (Power Button)

Press [PWR] to switch on the power.
Press [PWR] again to switch off the power.

Mode Selection

② MODE (Mode Button)

Press [MODE] to change the operation mode setting as follows.
Tuner ↔ CD player

Attenuator

④ ATT[MUTE] (ATT Button)

- Press [ATT[MUTE]] to immediately decrease volume to about 1/10 of its previous level.
- Press [ATT[MUTE]] again to cancel.

Volume

⑤ ^ v VOL (Volume Control Buttons)

Press [^ VOL] or [v VOL] to increase or decrease the volume level.

Radio

Selecting a Band

③ BAND (Band Select Button)

Press [BAND] to change the band setting as follows.
FM1 → FM2 → FM3 → AM
↑

Manual Tuning

⑥ < > TUNE (Manual Tuning Buttons)

Press [> TUNE] or [< TUNE] to tune in a higher or lower frequency.

Seek Tuning

⑥ < > TUNE (Seek Tuning Buttons)

Press and hold [> TUNE] or [< TUNE] for more than 0.5 seconds, then release it. Tuning will automatically stop when the signals of the next broadcast station are received.

Compact Disc Player

(When a disc is inserted, play starts.)

Starting CD Play

② MODE (Mode Button)

- Press [MODE] to change to the CD play mode after a disc has been inserted. Play will start automatically. Press [MODE] to change the mode setting as follows.

Tuner ↔ CD player

Once a disc has been inserted, CD play will start automatically regardless of the existing mode setting.

Track Selection

⑥ >>> <<<< TRACK (Track Select Buttons)

- Press [>>> TRACK] to advance to the next track.
- Press [<<<< TRACK] to play from the beginning of the track now playing.
- Press [>>> TRACK] or [<<<< TRACK] repeatedly to skip the desired number of tracks.

Track Search

⑥ >>> <<<< TRACK (Track Search Buttons)

- Press and hold [>>> TRACK] or [<<<< TRACK] for more than 0.5 seconds to advance or reverse through a track.
- Release [>>> TRACK] or [<<<< TRACK] to stop the rapid advance or rapid reverse.

Installation Guide

Preparation:

- Before installation check the radio operation with antenna and speakers.
- Disconnect the cable from the negative (–) battery terminal (see caution below).

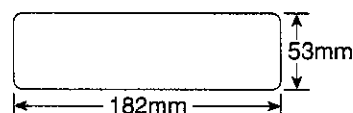
Caution:

For installation to cars with trip or navigational computer, all electronic memory settings previously registered in the computer will be lost when the battery terminal is disconnected. For this type of car, battery could not be disconnected. Therefore, extra care should be taken to prevent short circuiting.

In dash installation

Installation Opening

In-dash installation can be done if the car's dashboard has an opening for this unit as shown in the figure. The car's dashboard should have a thickness of 4.5mm-6mm in order to make the installation of the unit.



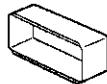








Installation Precautions

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

In case of difficulty, please consult your nearest authorized Panasonic Service Center.

1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.
2. Follow the electrical connection (→ page 20) carefully. Failure to do so may result in damage to the unit.
3. Connect the power lead after other connections are made.
4. Be sure to connect the YELLOW lead to positive terminal (+) of the battery to fuse block (BAT) terminal.
5. Insulate all exposed wires to prevent short circuiting.
6. Secure all loose wires after installing the unit.
7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

Installation Hardware

No.	Item	Diagram	Qty	No.	Item	Diagram	Qty
①	Mounting Collar		1	⑥	Power Connector		1
②	Hex. Nut (5 mmφ)		1	⑦	Remote Control Unit		1
③	Rear Support Strap		1	⑧	Lithium Battery		1
④	Tapping Screw (5 mmφ×16 mm)		1	⑨	Trim Plate		1
⑤	Mounting Bolt (5 mmφ)		1				

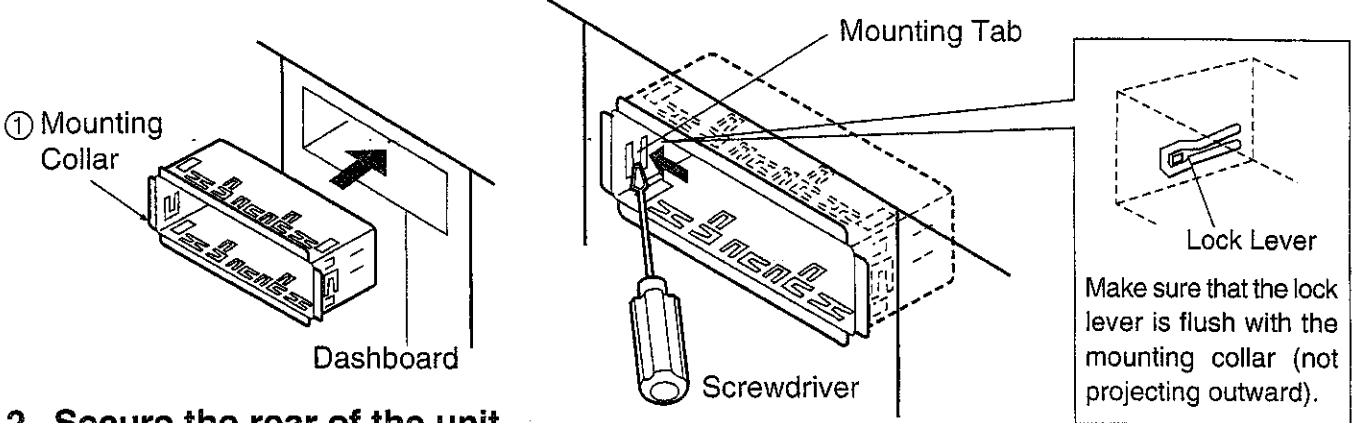
Installation Guide (continued)

□ Installation Procedures

Note: Disconnect the cable from the negative (-) battery terminal.

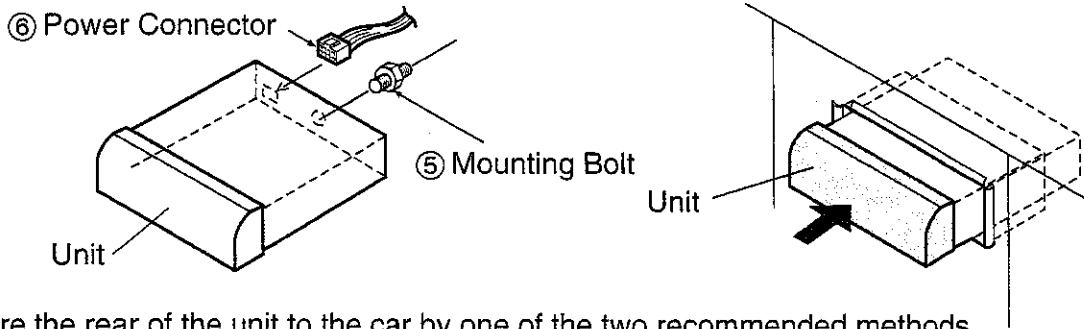
1. Secure Mounting Collar ①.

Insert Mounting Collar ① into the dashboard, and bend the mounting tabs out with a screwdriver.



2. Secure the rear of the unit.

- a) Check the electrical connections by referring to this operating instructions. (→ page 20)
- b) Connect Mounting Bolt ⑤, using a suitable wrench.
- c) Insert Power Connector ⑥ to the unit.
- d) Insert the unit into the Mounting Collar ① and push it in until a “click” is heard.



e) Secure the rear of the unit to the car by one of the two recommended methods.

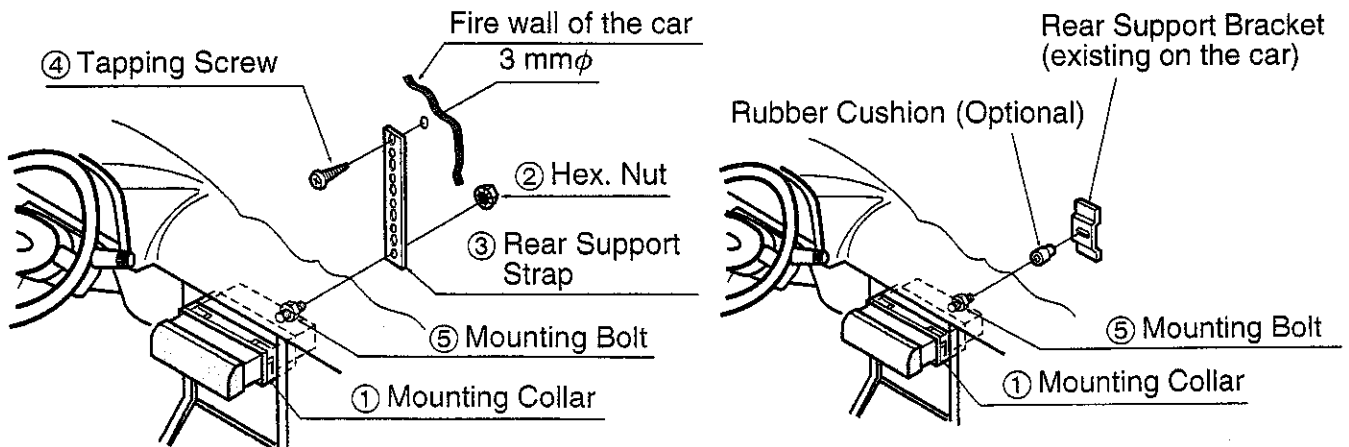
■ Using Rear Support Strap ③

Affix one end of Rear Support Strap ③ to the rear of the unit, and the other end to the fire wall of the car, or some other metallic area.

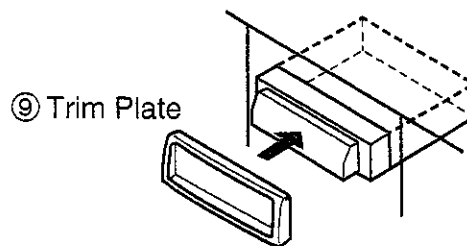
■ Using the Rubber Cushion (Optional)

(If there is an existing Rear Support Bracket on the fire wall of the car.)

Cover the Mounting Bolt ⑤ on the rear of the unit with the Rubber Cushion (Optional), and mount it into the existing Rear Support Bracket.



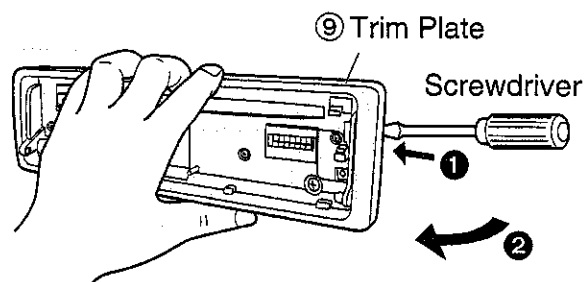
3. Install Trim Plate ⑨.



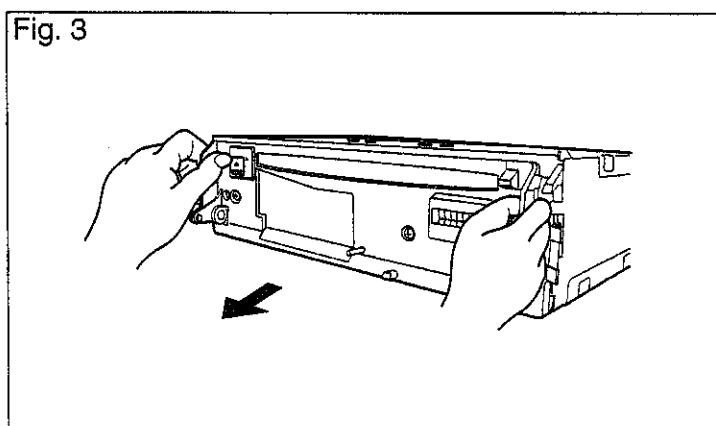
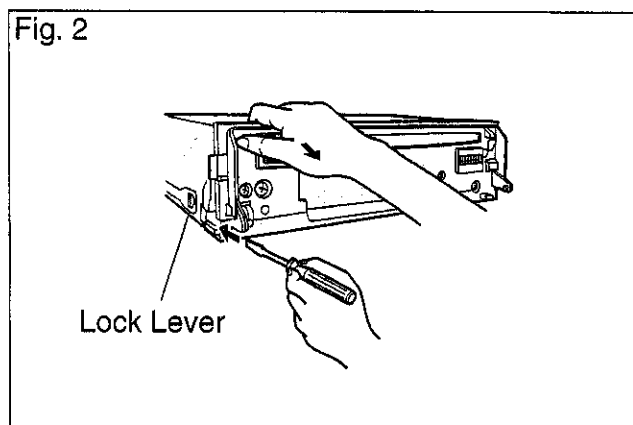
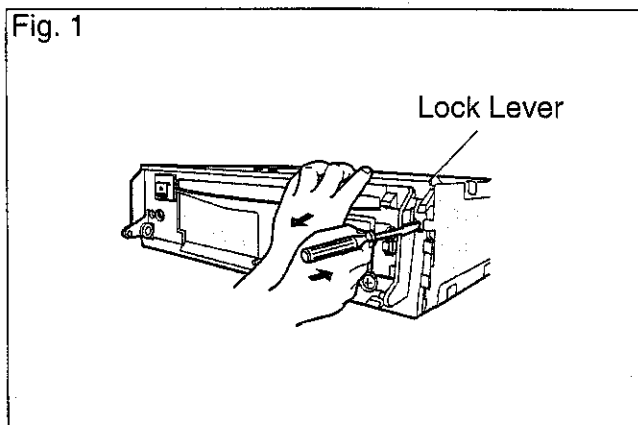
4. After installation, reconnect the negative (-) battery terminal.

To Remove the Unit

- a) Remove the removable face plate. (⇒ Page 18.)
- b) Remove Trim Plate ⑨ with a screwdriver as shown in the figure.



- c) Pull out the unit while pushing the two lock levers using the screwdriver. (⇒ Fig.1, 2)
- d) Remove the unit by pulling it with both hands. (⇒ Fig.3)



Installation Guide (continued)

Anti-Theft System

This unit is equipped with a removable face plate. By removing this face plate, the radio becomes totally inoperable.

To Remove the Removable Face Plate

- ① Switch off the power.
- ② Press **[OPEN]**. The removable face plate will be opened. (⇒ Fig. 4)
- ③ Push the face plate to either the right or left, then pull it out toward you. (⇒ Fig. 5)

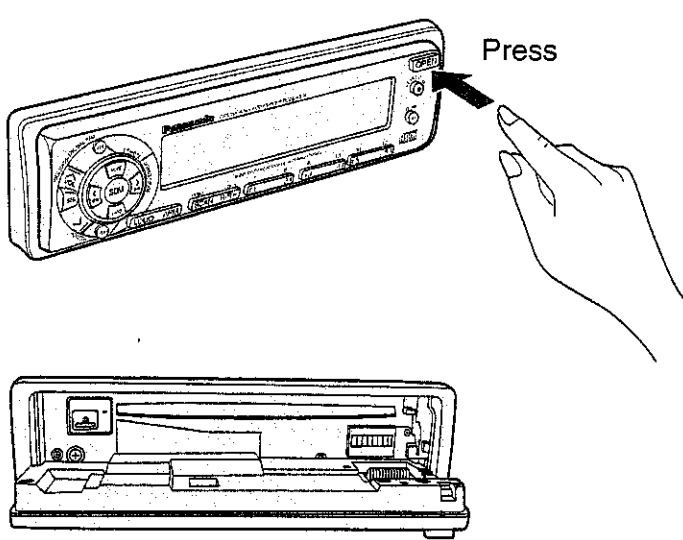


Fig. 4

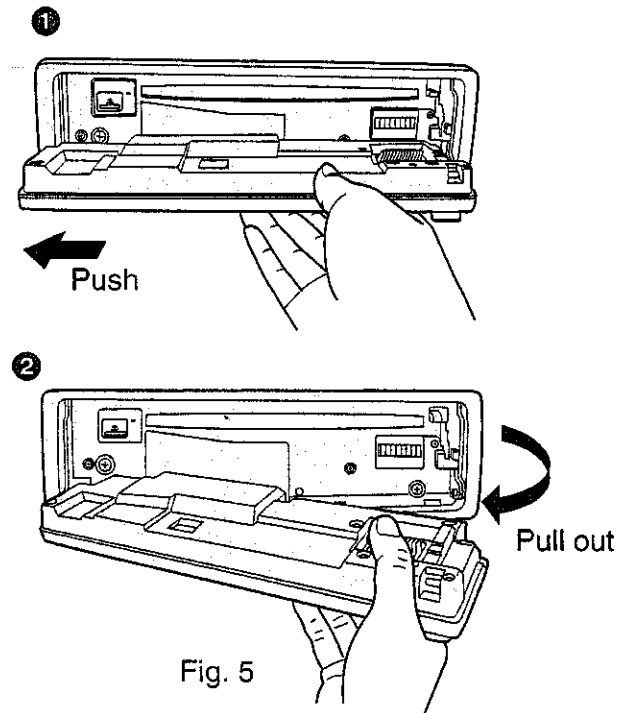


Fig. 5

To install the Removable Face Plate

- ① Fit either the edge of the right or left hole in the face plate over the main unit's pins, and fit it over on the other side while pushing it.

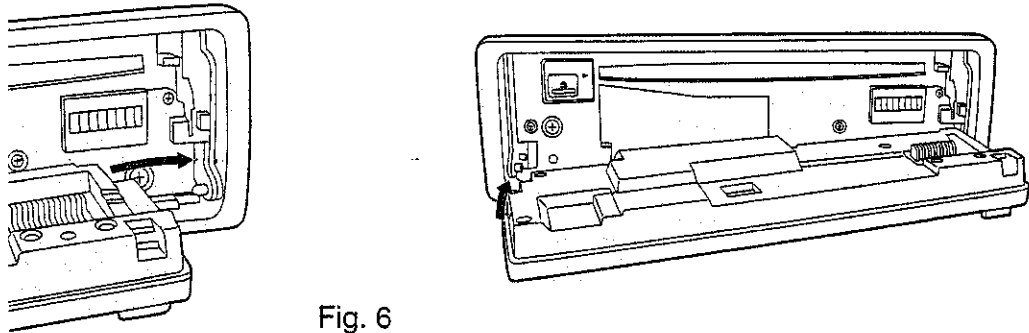


Fig. 6

- ② After fitting the face plate holes, try moving the face plate up and down a few times to make sure that it has been fitted securely.

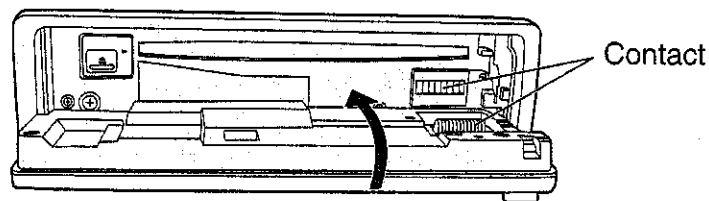


Fig. 7

- ③ Close the front panel and press the right side of the face plate until a "click" is heard.

Cautions:

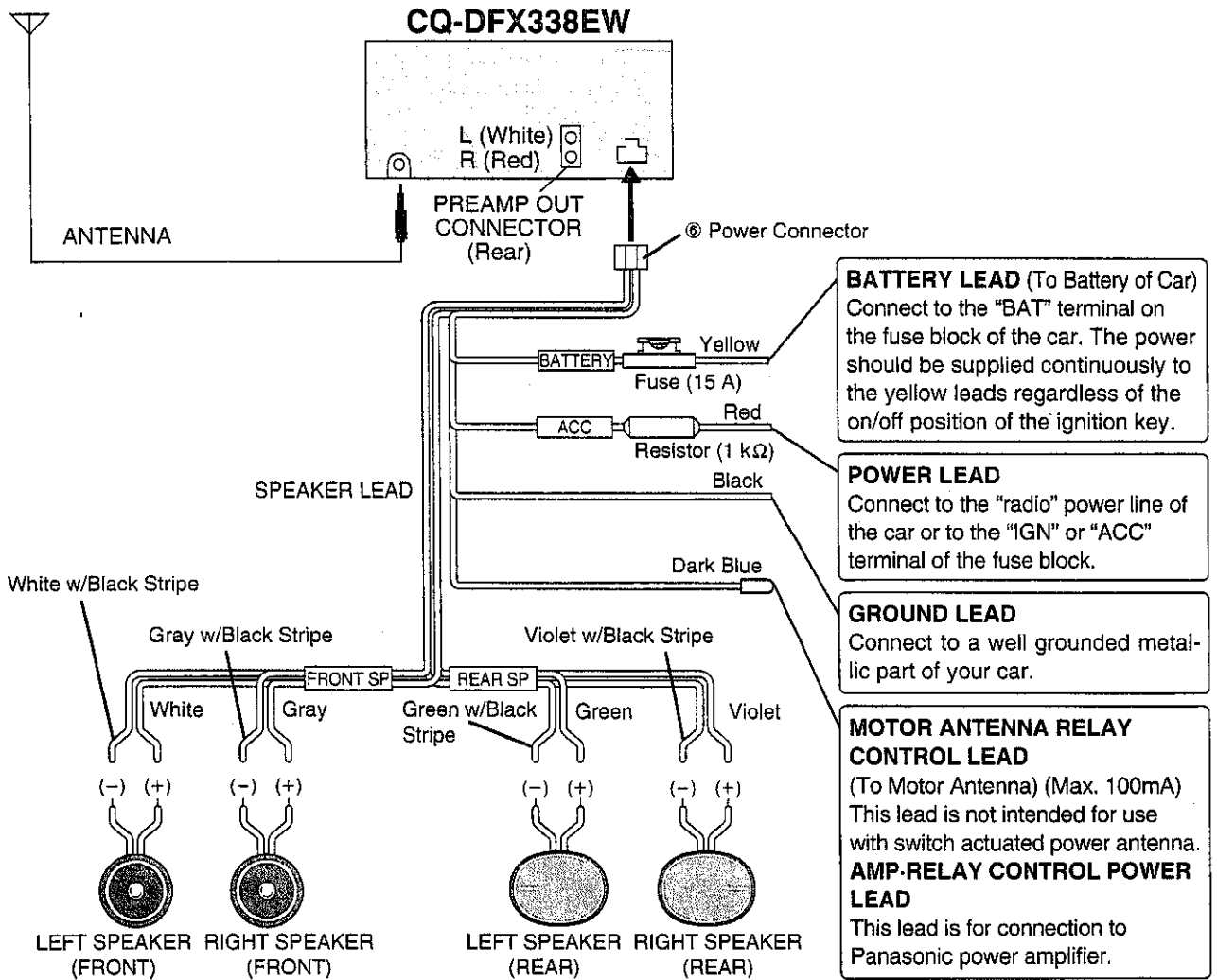
1. Before removing the removable face plate, make sure the power is off.
2. This removable face plate is not water-proof. Do not expose it to water or excessive moisture.
3. Do not remove the removable face plate, while driving your car.
4. Do not place the removable face plate on the dashboard or nearby areas where the temperature rises to high levels.
5. Do not touch the contacts on the removable face plate or on the main unit, since this may result in poor electrical contacts.
6. If dirt or other foreign substances get on the contacts, wipe them off with clean, dry cloth.
7. 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

Cautions:

- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove approx. 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.

Cable wiring diagram



BATTERY LEAD (To Battery of Car)
Connect to the "BAT" terminal on the fuse block of the car. The power should be supplied continuously to the yellow leads regardless of the on/off position of the ignition key.

POWER LEAD
Connect to the "radio" power line of the car or to the "IGN" or "ACC" terminal of the fuse block.

GROUND LEAD
Connect to a well grounded metallic part of your car.

MOTOR ANTENNA RELAY CONTROL LEAD
(To Motor Antenna) (Max. 100mA)
This lead is not intended for use with switch actuated power antenna.
AMP-RELAY CONTROL POWER LEAD
This lead is for connection to Panasonic power amplifier.

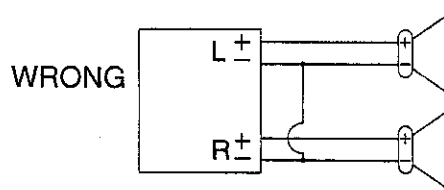
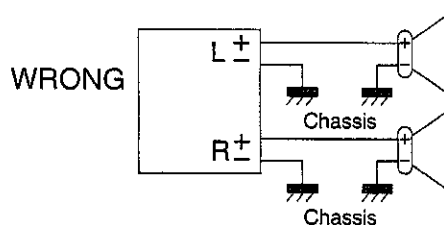
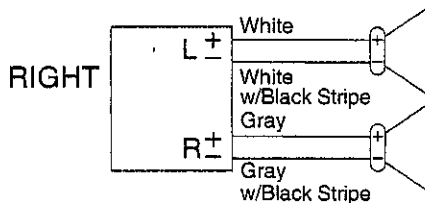
NOTE: RECOMMENDED EXTERNAL AMP COMBINATION (EXAMPLE)
Preamp out (rear) → CY-M7052 (2 ch system)

Speaker Connections

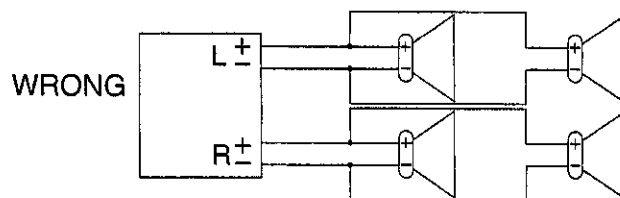
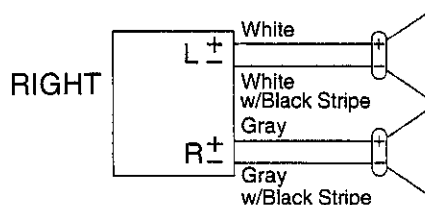
Caution:

1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 40W of audio power. If an optional amplifier is used, the speakers should be able to handle the maximum output power of the amplifier. Use of speakers with small input ratings can cause damage to the speakers.
3. The speaker impedance should be 4-8 ohms. If the impedance is too large or too small, it affects the output and may cause damage to the speakers or this unit.
4. Do not use 3-wire type speaker system having a common earth lead. Never connect the speaker cord to the body of the car. This unit uses the BTCL circuit, so each speaker should be connected separately using parallel vinyl insulated cords.
5. The speaker cords and the power amplifier unit should be kept away (about 30cm apart) from the antenna and antenna extension cord.
6. Follow the connection diagram below carefully. Failure to do so may cause damage to both unit and speakers.

● Unit will be damaged if speakers (Front, Rear) are not connected properly.



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



Error Display Messages

CD

E1	Appears on the display when the compact disc is dirty or upside down. Press [OPEN] to open the front panel, then press[▲] to eject the disc.
E2	Appears on the display when compact disc is scratched. Press [OPEN] to open the front panel, then press[▲] to eject the disc.
E3	Appears on the display when the compact disc stops operating for some reason. Turn off the car engine (accessory off) and remove the fuse from the yellow lead for 1 minute. Then reinstall the fuse.

Disc Notes

□ Handling and Cleaning

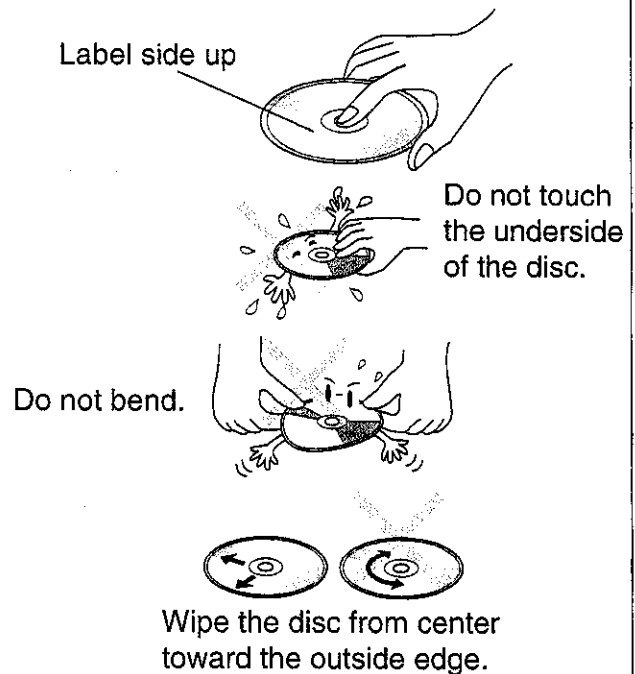
ONLY USE DISCS CARRYING LABEL SHOWN ON THE RIGHT



- Dirt, dust, scratches and warping discs will cause misoperation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should always be kept in its case when not in use to prevent from damaging.
- Do not place discs in the following places:
 1. Direct sunlight.
 2. Dirty, dusty and damp areas.
 3. Near car heaters.
 4. On the seats or dashboard.

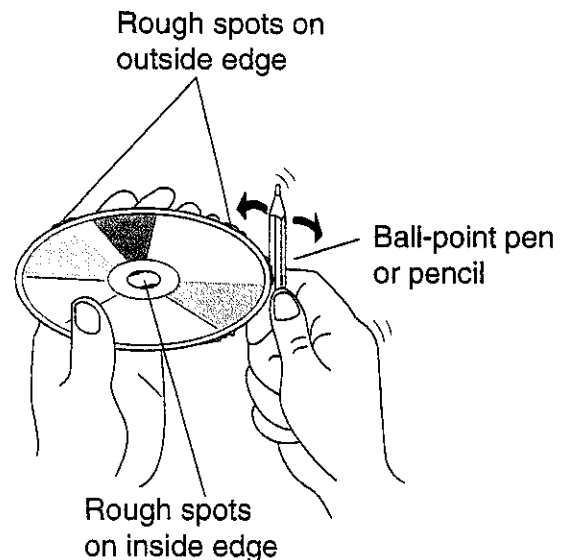
Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistured with isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner or conventional record cleaners as they may mar the surface of the disc.



□ Preparing New Discs with Rough Spots

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the CD player will not play the disc. Therefore, remove the rough edges in advance by using a ball-point pen or pencil as shown on the right. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.



FUSE

Be sure to use a fuse of the specified rating (15A) when replacing a blown fuse. Fuses with higher capacity ratings, use of any substitute, or connection without a fuse may result in a fire hazard or damage to the unit. If the replacement fuse fails, consult your nearest authorized Panasonic Service Center.

Maintenance

To clean the exterior of this unit, use a soft cloth to wipe the surface. Do not use benzine, thinner or any other type of solvents.

Specifications

General

Power Supply	: 12 V DC (11 V–16 V), test voltage 14.4 V, negative ground
Maximum Power Output	: 40 W×4 channels at 400 Hz, volume control maximum
Power Output	: 14 W×4 (DIN 45 324, at 4 Ω)
Tone Adjustment Range	: Bass; ±12 dB at 100 Hz, treble; ±12 dB at 10 kHz
Pre-Amp Output Voltage	: 2.0 V (CD play mode; 1 kHz 0 dB)
Output Impedance	: 600 Ω
Current Consumption	: Less than 1.7 A (CD play mode)
Dimensions (W×H×D)	: 178(W)×50(H)×150(D) mm
Weight	: 1.5 kg

AM Radio

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

FM Stereo Radio

Frequency Range	: 87.5–108.0 MHz
Usable Sensitivity	: 6 dB/μV (S/N 30 dB)
Stereo Separation	: 42 dB at 1,000 Hz

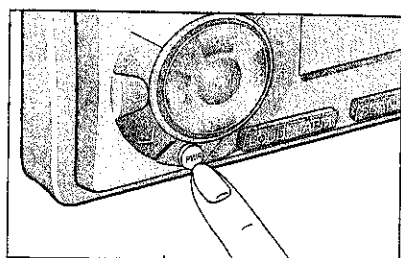
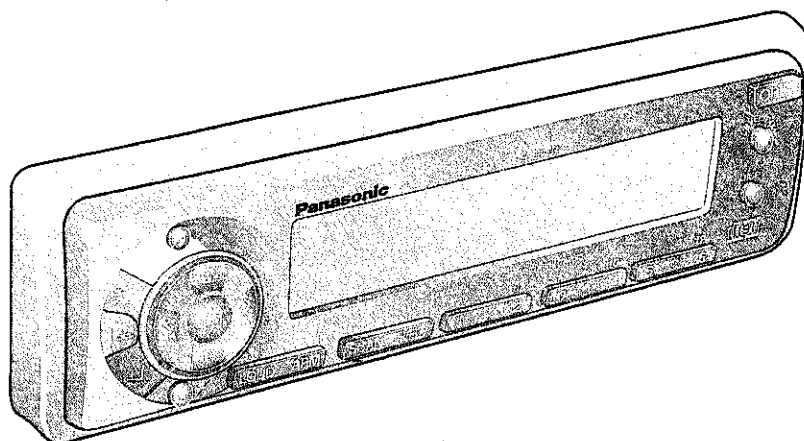
CD Player

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
Wavelength	: 780 nm
Frequency Response	: 20 Hz – 20,000 Hz, ± 1 dB
Signal/Noise Ratio	: 96 dB
Total Harmonic Distortion	: 0.01% (1,000 Hz)
Wow and Flutter	: Below measurable limits
Channel Separation	: 75 dB

Note:

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

電源與音量控制



電源

轉動點火鑰匙，直至附屬的指示燈點亮。

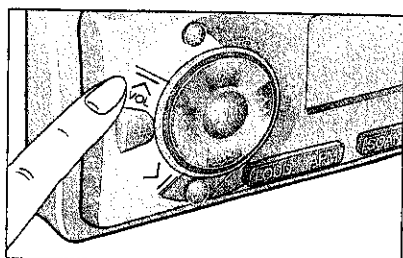
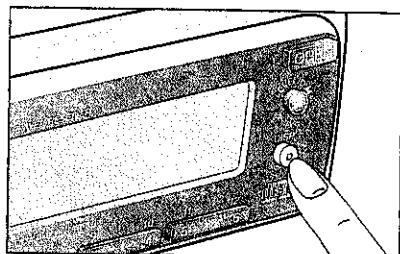
按下 [PWR] 按鈕，接通電源。

再次按下 [PWR] 按鈕，可切斷電源。

註：

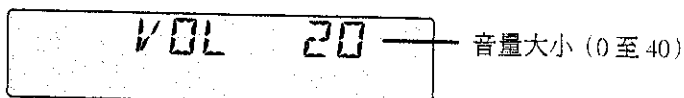
當第一次接通電源時，顯示屏上將出現示範畫面。按 **DISP[D]** 鈕，可以取消該示範畫面的顯示。

當插入CD後，本機將自動接通電源，進入工作狀態，CD開始播放。

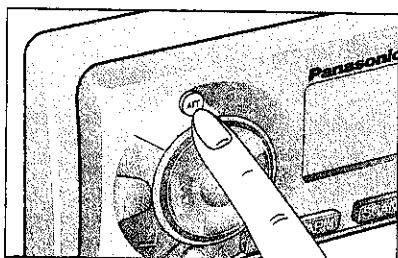


音量

- 按下 [\wedge VOL] 或 [\vee VOL]，增大或降低音量。

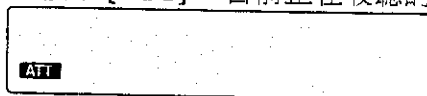


- 按下 [\wedge VOL] 或 [\vee VOL] 按鈕 0.5 秒以上，顯示器上會連續變換數字。



音量衰減器

- 按下 [ATT]，目前正在收聽的音量將減少至約 $1/10$ 的音量。



- 再次按下 [ATT]，恢復到原來收聽的音量。

註：本裝置配置了防止音量過載失真電路，它作為自動音量調節器，使您不會由於突然的大音量而感到驚愕。

此系統操作如下所述。當按下 [PWR] 鈕接通電源開關時，音量是很小的，此後，音量逐漸回復到以前電源開關切斷時的音量。當您設定的音量水平低於顯示屏上的位置20時，防止音量過載失真電路將不工作。