

Operating Instructions

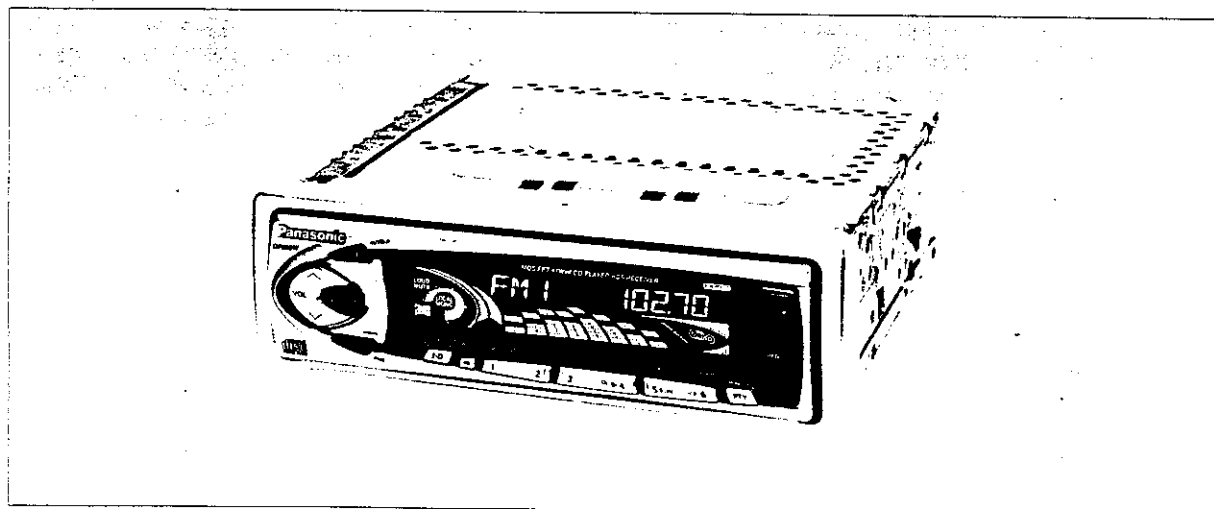
操作說明書

[CQ-DF800W]

High-Power CD Player/RDS Receiver with Changer Control

附帶鐳射唱片換片控制的大功率鐳射唱機/RDS收音機

CQ-DF800W



Panasonic®

松下電器

Please read these instructions carefully before using this product and save this manual for future use.

使用本機前請詳細閱讀本操作說明書，並妥善保管，以備後日查用。

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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 product (including the speakers and CDs) to water or excessive moisture.

Service

This product 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 product 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 sunlight, 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°.

Precautions (ISO Connector)

- Wiring for the power connector conforms to the arrangement of standard ISO connectors.
- In case of some car types, the arrangement of connector may differ from the standard ISO as shown in Table 1, even though ISO connectors are adopted.

Table 1

	Fig. 1 Pin No.	
	A4	A7
Car for standard ISO	Battery (permanent 12 V supply)	"IGN" or "ACC" (switched 12 V supply)
In case of Car type A	"IGN" or "ACC" (switched 12 V supply)	Battery (permanent 12 V supply)
In case of Car type B	No Connection	Battery (permanent 12 V supply)

- Make sure the ISO connector arrangement in your car side is as same as the standard ISO. (Table 1, Fig. 1)
- In case of arrangement for Car type A or B, change connections of the red/yellow leads at the re-connectable joint (*) as shown in Fig. 1.

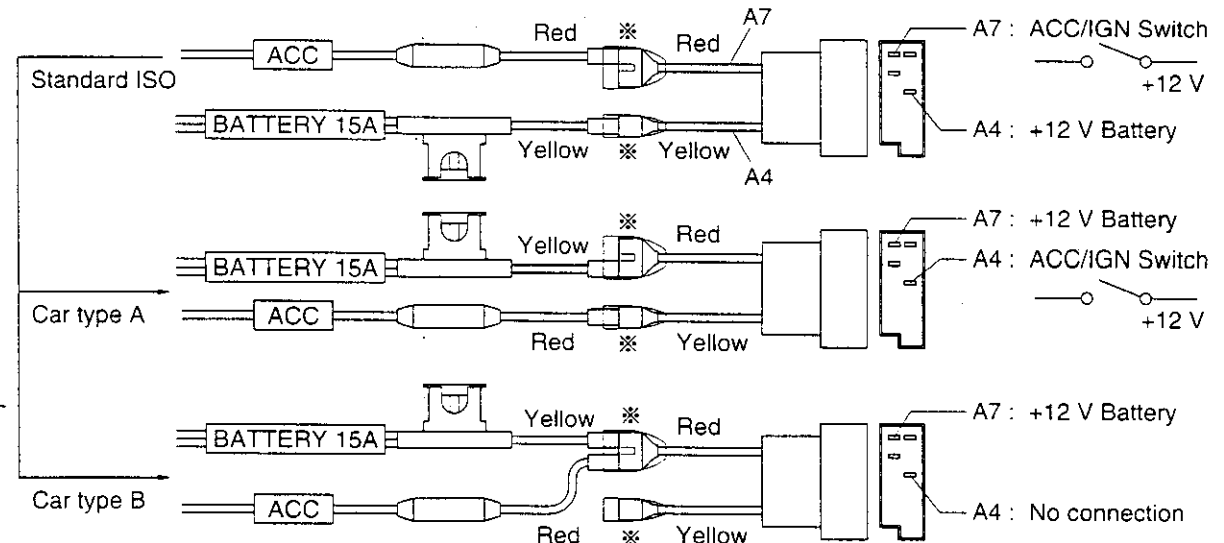
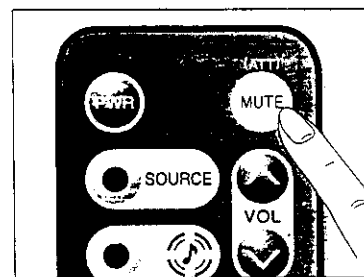
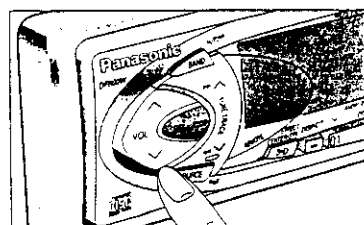
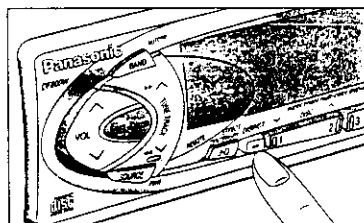
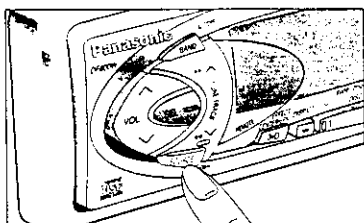
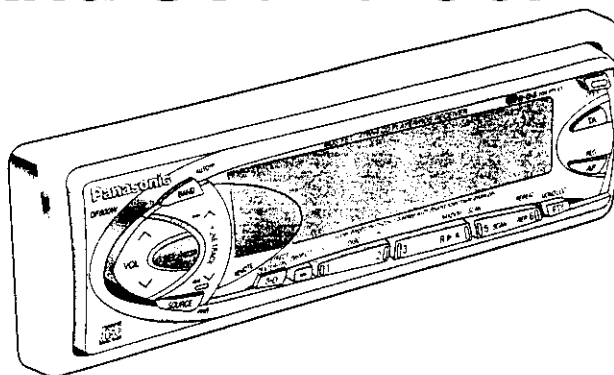


Fig. 1

- After fixing the connections, the part (*) should be insulated with electrical tape to keep away from unit damage.

Power and Sound Controls



Power

Turn the key in the ignition until the accessory indicator lights. Press **[SOURCE](PWR)** to switch on the power. Press and hold **[SOURCE](PWR)** again for more than 2 seconds to switch off the power. When the power is turned off, the panel removal alarm sounds. (See page 34 about the panel removal alarm.)

Note:

When the power is switched on for the first time, a demonstration appears on the display. To cancel this display, press **[](DISP/CT)**.

Volume

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



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

Mute (remote control only)

- Press **[MUTE]** to mute the sound completely.



- Press **[MUTE]** 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 **[SOURCE](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.

3•DSB System

•For Stereo Sound

It is a new sound system combining 3-dimensional sound from two front speakers with rear channel super bass when receiving stereo broadcast.

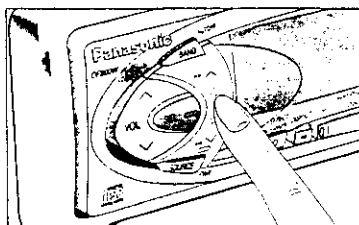
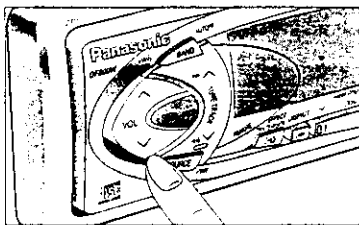
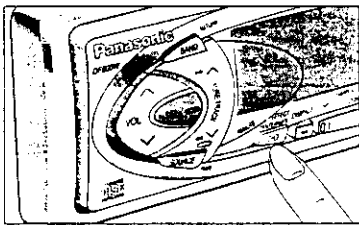
•For AM/FM Monaural Sound (Virtual Stereo Effect)

3•DSB also gives you a sound with Virtual Stereo Effect from 4ch speakers when receiving AM monaural broadcast or FM broadcast in the monaural mode.

The 3•DSB employs Spatializer® ICs of Desper Products, Inc.

Loudness Control

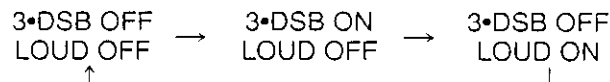
It is a sound system to enhance bass and treble tones when listening at low or medium volume.



3•DSB (3-Dimensional Surround and Super Bass)

3•DSB and Loudness Control (LOUD) Combination

Press [3•D] to change the combination of the 3•DSB and loudness as follows.



3•DSB Effect Level

- ① Press and hold [3•D] until "EFFECT" appears on the display when 3•DSB is on (except during radio mode using the Virtual Stereo Effect).
- ② Press [^ VOL] or [v VOL] to select one of the 10 volume levels (0 to 9).

3•DSB Center Speaker Volume

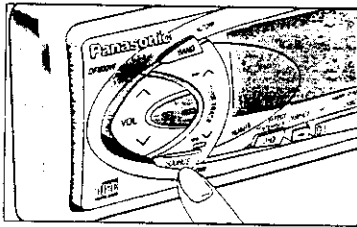
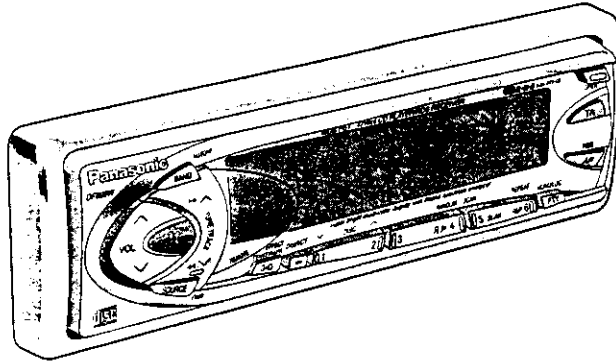
[The center speaker (EAB-CF2) is optional.]

- ① Press and hold [3•D] until "EFFECT" appears on the display when 3•DSB is on (except during radio mode using the Virtual Stereo Effect).
- ② Press [^ TUNE] or [v TUNE] to change to the volume adjustment mode for center speaker.
 3•DSB EFFECT ↔ CENTER SP VOL
- ③ Press [^ VOL] or [v VOL] to select one of 8 levels (0 to 7) for the center speaker volume.

Notes:

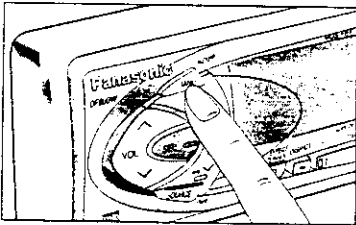
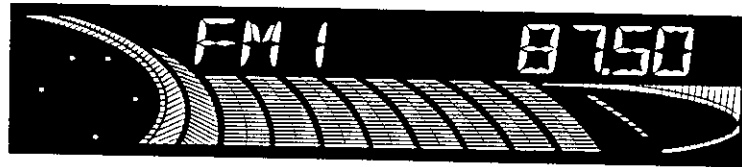
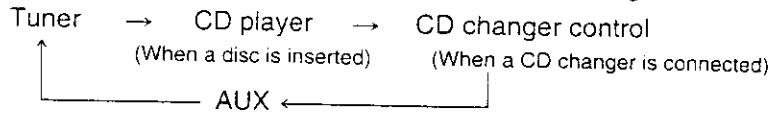
- The spread of sound produced by the conventional 3•DSB can be further increased by using the optional center speaker.
- The center speaker sounds only when the 3•DSB is turned on (except in Virtual Stereo Effect mode).

Radio Basics



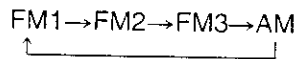
Tuner Mode

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

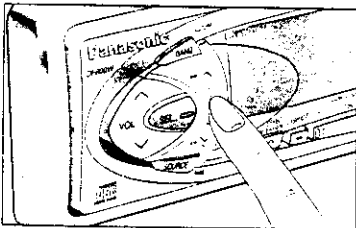


Band

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

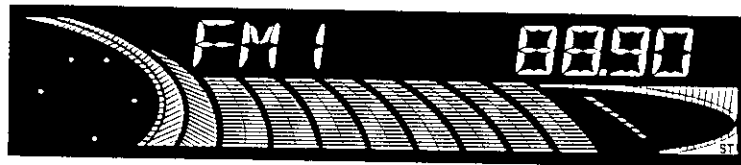


"ST" indicator lights during reception of a FM stereo broadcast.



Manual Tuning

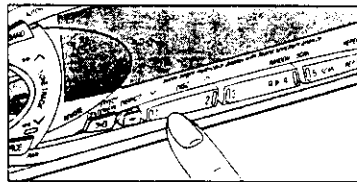
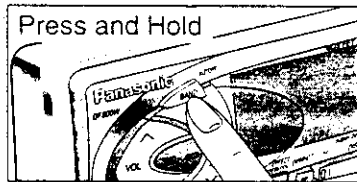
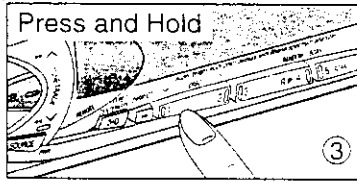
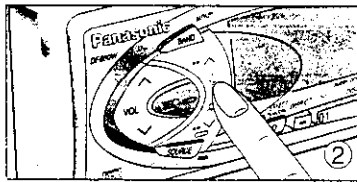
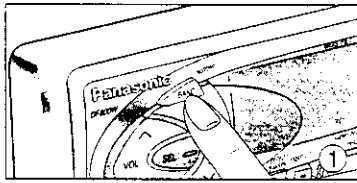
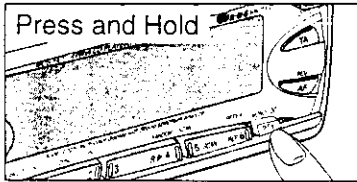
Press [^ TUNE] or [v TUNE] to tune in a higher or lower frequency.



Seek Tuning

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

Radio Basics (continued)



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, only strong signals of stations are searched in seek tuning, while at the LOCAL OFF setting, relatively weak signals are also searched.

① FM broadcast

Press and hold [PTY](MONO/LOC) in the tuner mode for more than 2 seconds to switch between the MONO and LOCAL modes. Each time [PTY](MONO/LOC) is pressed, the display changes as follows.

MONO OFF/LOCAL OFF → MONO ON/LOCAL OFF

MONO OFF/LOCAL ON ← MONO ON/LOCAL ON

② AM broadcast

Press and hold [PTY](MONO/LOC) for more than 2 seconds to change the local mode as follows.

LOCAL OFF ↔ LOCAL ON

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 pre-set in the memory.
- ③ Press and hold one of the preset buttons [1] to [6] for more than 2 seconds until the display blinks.



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 and hold [BAND](AUTO•P) for more than 2 seconds (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.

RDS (Radio Data System) Reception

Some FM stations are broadcasting added data compatible with RDS. This radio set offers convenient functions using such data.

AF (Alternative Frequency)

When receiving condition becomes poor, an RDS station with the same program will be automatically selected.

EON (Enhanced Other Networks)

When EON data is received, the EON indicator lights and the TA and AF functions are expanded.

TA: Traffic information from not only the station now tuned in to but also other stations of the same network can be received.

AF: The frequency list of the RDS stations preset by received EON data is updated.

PS (Program Service Name)

When an RDS station is received, the name of that station automatically displays instead of the frequency. When [**■**](DISP/CT) is pressed during PS display, the frequency appears on the display for 3 seconds, then PS display returns.

PI (Program Identification)

If a preset RDS station is poor in receiving condition when it is selected, the automatic seek (PI Seek) starts to seek the same program and tune in to it.

PTY (Program Type)

Program type identification signal

Example: news, rock, classical music, etc.

TA (Traffic Announcement)

When an FM station that periodically provides the latest traffic information is received, the TP indicator lights. If TA ON is set, FM traffic information automatically interrupts your listening to a CD, CD changer or AUX source until it ends, then you will listen again to whatever you have been listening to.

Best Station Research

If a preset RDS station is in poor condition of reception when you try to tune in to it, the best frequency is selected from the AF list of that station.

REG (Region)

The AF, Best Station Research, PI Seek functions will be as follows:

REG ON: The frequency changes only with the same regional program. This function is mainly used while driving in the same area, for example, in a city.

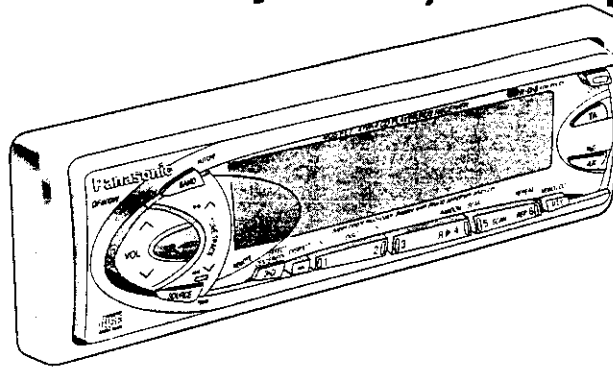
REG OFF: The frequency changes even with a different regional program if the station is in the same network. The broadcast may be different depending on the case. This function is mainly used when driving far from one region to another.

What provides EON Capabilities

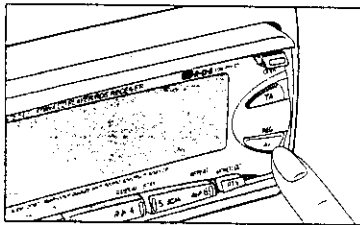
EON lets the radio set take advantage of RDS information much more than before. It constantly updates the AF list of all presets, including the station currently tuned in to. So, even if you change preset far from home, you will be able to receive the same station at an alternative frequency, or another station serving the same program if any. EON also keeps track of locally available TP stations for quick reception.

Note: When you are in **AF ON** mode, auto preset memory only works for RDS station. When in **TA ON** mode, it only works for TP stations. To make auto preset for ordinary stations, cancel AF mode and change to TA off in advance.

RDS (Radio Data System) Reception (continued)



A. Basic Operation in RDS Reception (PS, AF, CT, PI)



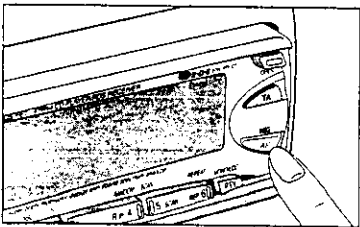
RDS Reception

Press [AF] when receiving a station in the FM1, FM2 or FM3 band.

- The AF ON/OFF can be set in each FM band.



- Select AF ON if you wish to use the AF network of an RDS station. Best station research is activated at the same time.
- Select AF OFF if the AF network of an RDS station is not necessary.



Changing AF Mode

Press [AF] to change AF ON and activate best station research at the same time. (3 seconds maximum)



AF1 mode (Default)



AF2 mode

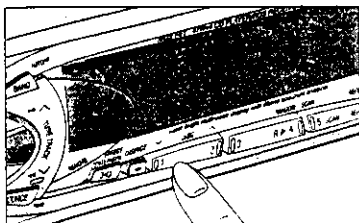


AF OFF mode

Notes:

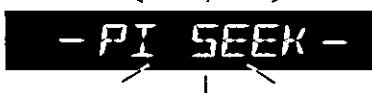
- Default mode is AF1.
- AF1 has a low level of AF operating sensitivity in urban areas. Therefore, AF does not frequently operate even when sensitivity is temporarily lowered between skyscrapers, for example.
- AF2 is for suburban areas with a higher level of sensitivity than AF1.

For Seek Tuning, RDS Station Preset, Tuning in a RDS preset station, and Auto RDS Station Preset, please refer to Radio Basics (page 11, 12).

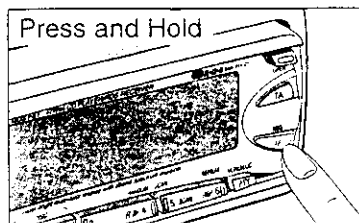


RDS Seek Tuning (PI Seek)

The PI seek function may be used if an RDS station selected from the memory is poor in receiving condition. Press the preset button again for the station now tuned in to.

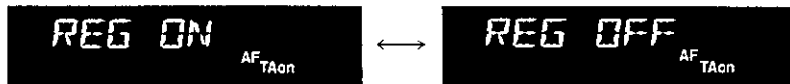


PI seek: If Best Station Research fails in selecting the best station, the PI seek function operates to automatically tune in to the same program.



Region (REG) Switching

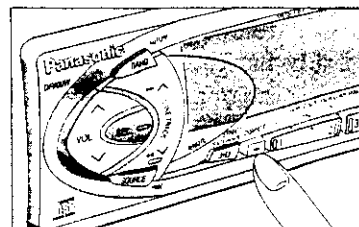
Press and hold [AF](REG) for more than 2 seconds in AF mode to alternately select between REG ON and REG OFF.



Note:

If you wish to stay with the same program, keep REG ON. In REG OFF mode, there is a higher possibility of returning to an AF station in better receiving condition.

The relationship of the PI seek function with REG ON and REG OFF is as described above.



Changing Display

Press [-](DISP/CT) to change the display as follows.

(Frequency display continues for only 3 seconds, returning to PS display after that.)

PS display → Frequency display → CT display

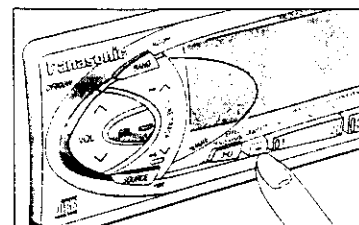
Clock Time (CT) System

The CT (24-hour) system may not properly operate in areas where RDS CT service is not available. Once CT service is received, the CT system keeps operating. "NO CT" appears on the display in areas where no CT service is available.

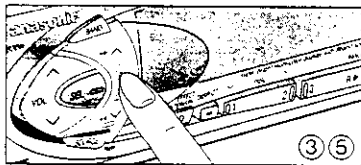
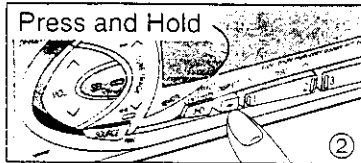
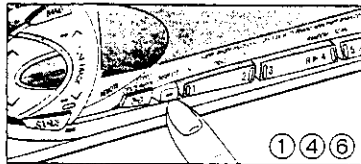


Clock Display

Press [-](DISP/CT) to indicate the clock display.



RDS (Radio Data System) Reception (continued)



Initial Time Setting

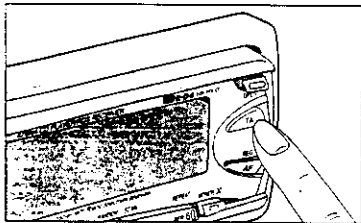
Press [BAND] to change to AM mode.

- ① Press [DISP/CT], "NO CT" appears on the display.
- ② Press and hold [DISP/CT] again for more than 2 seconds, "hour" blinks and the time setting mode is activated.
- ③ To set hours, press [^TUNE] or [vTUNE].
Hold [^TUNE] or [vTUNE] to change numbers rapidly.
- ④ Press [DISP/CT] again for minutes setting.
- ⑤ To set minutes, press [^TUNE] or [vTUNE].
- ⑥ After setting the time, press [DISP/CT].

Notes:

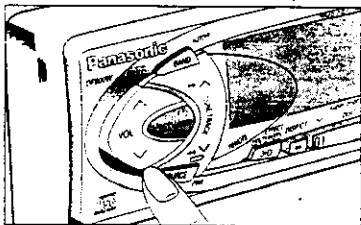
- If CT display is kept on, it remains on even if [SOURCE](PWR) and accessory are turned off and back on again.
- In other modes, press [DISP/CT] to get RDS CT-service.

B. TP Reception



Select Traffic Announcement (TA on) Mode

Press [TA] to switch on and keep it there when you wish to listen to traffic information. Press [TA] again to switch off.



Volume Setting (Only for TA on Mode)

Adjust the volume as desired by pressing [^VOL] or [vVOL] while receiving Traffic Announcement (TA).

After volume for Traffic Announcement (TA) is set, the difference between normal volume and TA volume is automatically stored in the memory (up to 5 levels) so that next traffic information will be received at the proceeding TA volume which may be higher or lower than normal volume.

Normal volume can be changed up to 5 levels upward or downward. If the volume level is over 40 or less than 0, any further change will not be made.

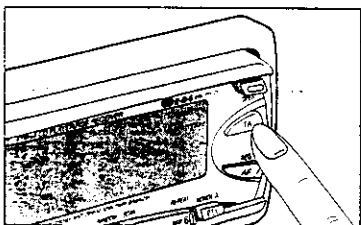
When receiving a station other than TP station (including EON stations)

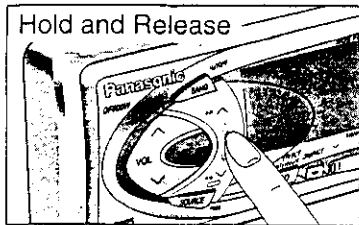
A traffic information station is automatically searched for and the radio automatically stops the next available TP station.

EON Capabilities:

EON lets the radio take advantage of much more RDS information than before. It constantly updates the AF lists for all switch presets far from home, you will receive an alternative frequency for the same station, or another station carrying the same program, when such exists. EON also keeps track of locally available TP station.

Press [TA].

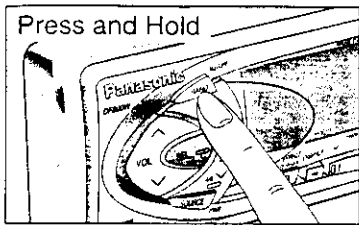




Hold and Release

TP Seek Tuning

Press and hold [^TUNE] or [vTUNE] for more than 0.5 seconds, then release. The seeking automatically stops at the next available TP station.

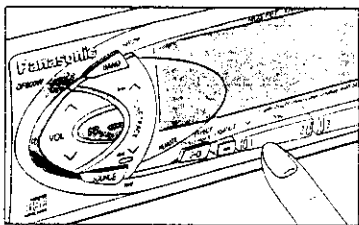


Press and Hold

Auto TP Station Preset

Press and hold [BAND](AUTO•P) for more than 2 seconds. The six strongest available TP stations are automatically saved in the memory on the preset button [1] to [6].

Once saved, the preset stations are sequentially scanned for 5 seconds each.



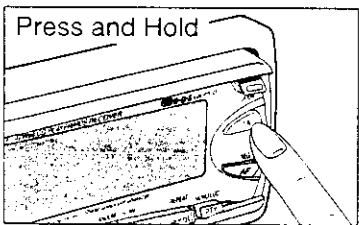
Tuning in a TP Station Preset

Press any of the preset buttons [1] to [6] that you want to listen to. Best Station Research function is activated to automatically select the strongest available frequency for the TP station (through the built-in frequency) lists, if reception is weak.



Muting TA on

Press and hold [TA] for more than 2 seconds to light "TA on". Then Traffic Announcement (TA) function is activated to operate, allowing you to listen to only Traffic Program whenever it is available.



Press and Hold

Muting TA on Canceling (Muting TA on → TA on)

Press [TA] again.

Or press [^VOL] to increase the volume level.

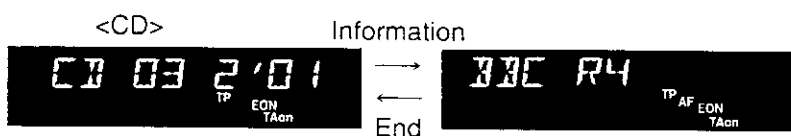
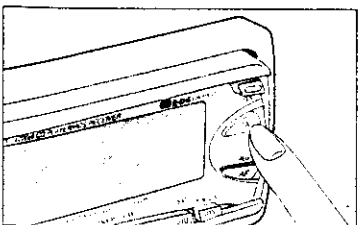
TP Auto Search

If receiving conditions are poor when TA is on during muting and if there is no other alternative frequency in the same network, a traffic announcement station in good receiving condition is automatically searched for.

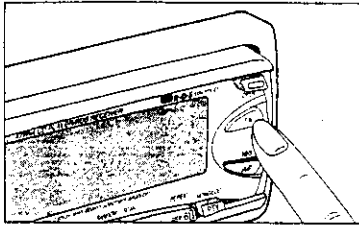
CD/CD Changer/AUX TA on

Press [TA] during CD, CD changer or AUX mode.

When TA on mode is selected while listening to the source in that mode, wait for Traffic Announcement to begin.



RDS (Radio Data System) Reception (continued)



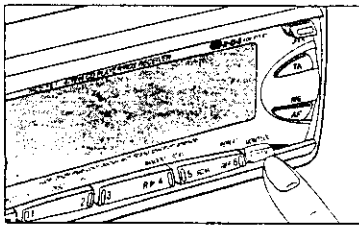
Switching to TA off Mode

Select either one of the following steps.

- Press [TA] when TA is on.
- Press and hold [TA] for more than 2 seconds when Muting TA is on.
- Press [TA] when CD/CD changer/AUX TA is on.

C. PTY Reception

(There are some areas where PTY service may not be available.)

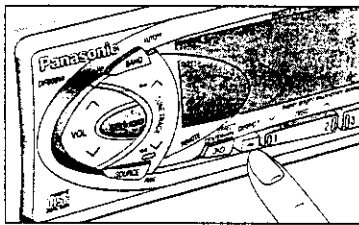


Switching to PTY Mode

Press [PTY] to select PTY display mode, and the PTY of the broadcast now received appears on the display.



"NO PTY" appears on the display if there is no corresponding program type.



Changing PTY Display Language

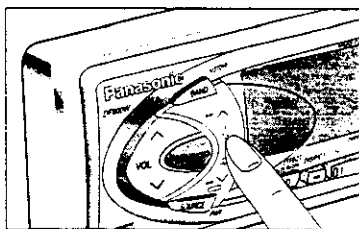
The display language can be changed to Swedish as required. Press [-] (DISP/CT) in PTY mode to alternate the language between English and Swedish.



<English>

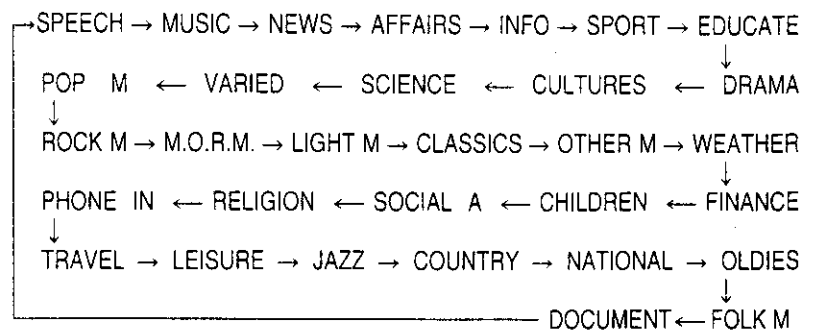


<Swedish>



Program Type Selection

Press [^TUNE] or [vTUNE] to select the program type as follows.



When a desired selection has been made, press [BAND]. Then automatic seek will start to tune in to the station broadcasting the selected program type.

Note: Seek tuning does not operate as long as "NO PTY" appears on the display.

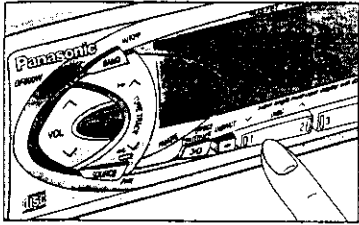
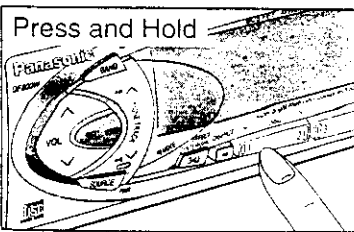


Table of PTY Code and Program Type

Press any of the preset buttons [1] to [6] according to your reference. Those buttons already have the program types as follows. (Default setting)

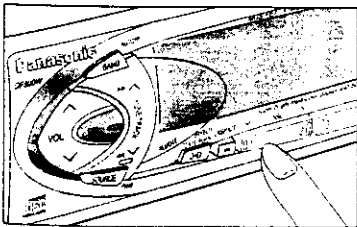
<Preset PTY>

Preset No.	1	2	3	4	5	6
Program Type	News	Speech	Sport	Pop. Music	Classics	Music
Display	NEWS 1	SPEECH 2	SPORT 3	POP M 4	CLASSICS 5	MUSIC 6
	NEWS	AFFAIRS INFO EDUCATE DRAMA CULTURES SCIENCE VARIED WEATHER FINANCE CHILDREN SOCIAL A RELIGION PHONE IN TRAVEL LEISURE DOCUMENT	SPORT	POP. M	CLASSICS	ROCK M M.O.R.M LIGHT M OTHER M JAZZ COUNTRY NATIONAL OLDIES FOLK M



Program Type Preset

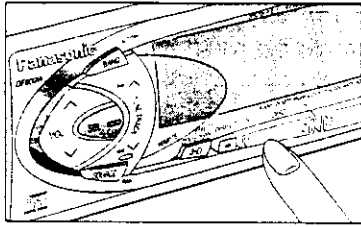
Press and hold one of the buttons [1] to [6] for more than 2 seconds to preset the desired program type selection in the button.



Tuning in a PTY Preset Station

Press any of the preset buttons [1] to [6] that you want to listen to.

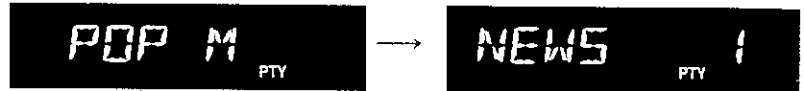
RDS (Radio Data System) Reception (continued)



Searching for PTY

- ① Select the desired station from preset in the preset number buttons [1] to [6]. Then, the preset PTY and that preset number appear on the display for 5 seconds.

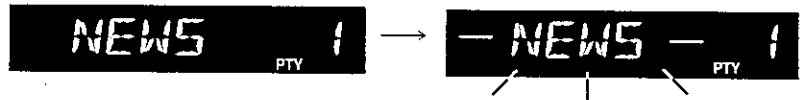
Press preset button.



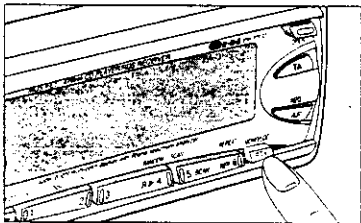
- ② While the desired type from 6 presets appears on the display, take either of the following two steps.
 - a) Press the same preset button again.
 - b) Press [BAND].

If the desired PTY station is available, it is directly received. If it is not, "NO PTY" blinks and the radio returns to the station that was received before the search.

Press the same preset button.



Press the same button again to cancel.



Canceling of PTY Mode

Press [PTY] to cancel.

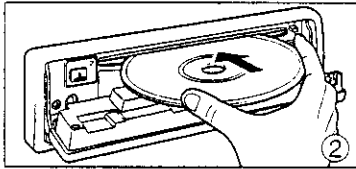
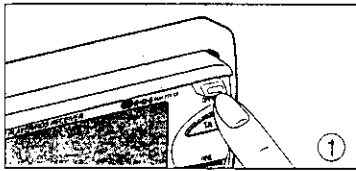
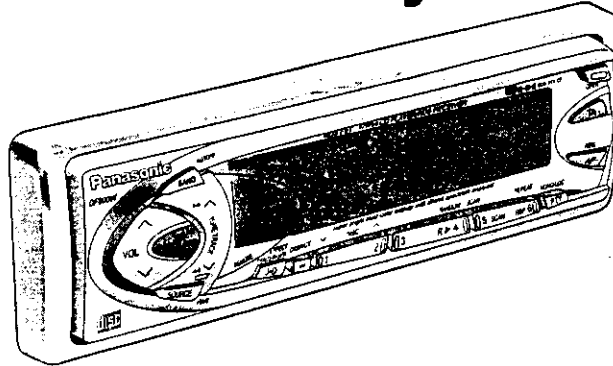
The set returns to the state existing before PTY mode while the receiving frequency remains unchanged.

Emergency Announcement Reception

(Some areas are not covered by emergency announcement service.)

If an emergency announcement is broadcast in muting TA on/CD/CD changer/AUX mode, the radio is automatically selected to receive the emergency announcement. "ALARM" blinks.

Compact Disc Player Basics



Loading a Disc

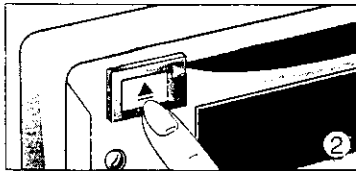
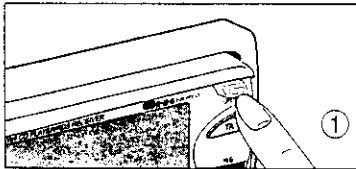
- ① Press [OPEN] to open the front panel.
- ② Insert a disc with its label side facing up.
After the disc is inserted, close the front panel manually.

Notes:

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

Cautions:

- This product is not designed for any 8 cm CD.
- If you insert an 8 cm CD and can not eject it, turn ACC of your car off once and turn it on again, then press EJECT.
- Do not use irregularly-shaped CD (heart-shaped, octagon etc.) . Failure to observe this may cause malfunction.



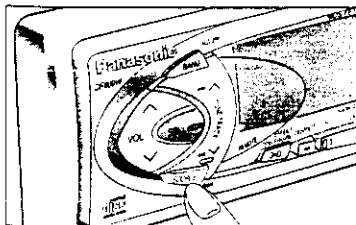
Ejecting a Disc

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

Note:

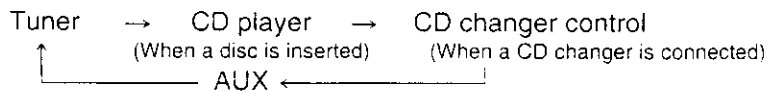
Always remove the disc from the unit when the CD player is not being used.

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

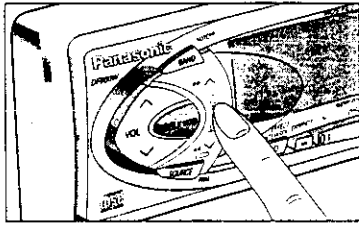


Starting CD Play

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

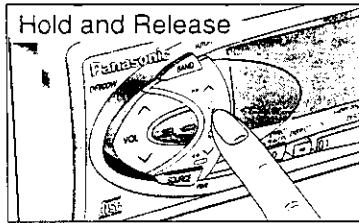


Compact Disc Player Basics (continued)



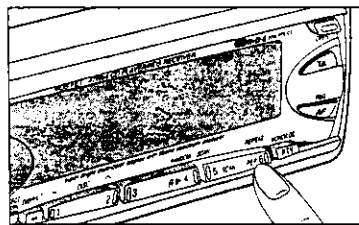
Track Selection

- 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.



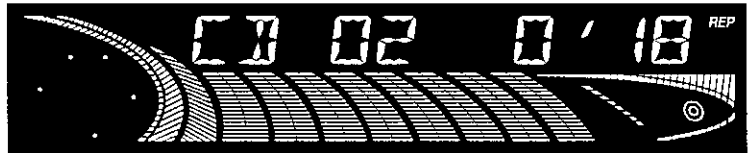
Track Search

- 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.

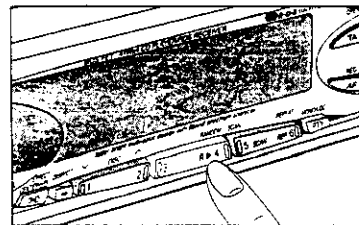


Track Repeat

Press [6](REP) to repeat the current track.

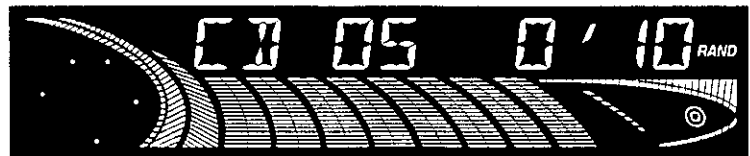


Press [6](REP) again to cancel.



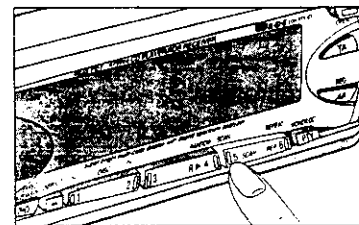
Random Selection

Press [4](R▶). All the available tracks will be played in a random sequence.



Press [4](R▶) again to cancel.

Note: When [6](REP) is pressed in the random mode, random play stops and repeat play starts.



Track Scan

Press [5](SCAN). The display blinks, and the first 10 seconds of each track on the CD are played in sequence.



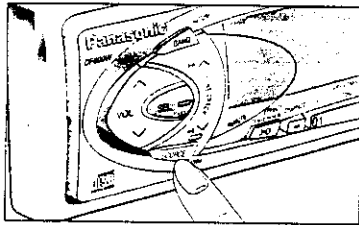
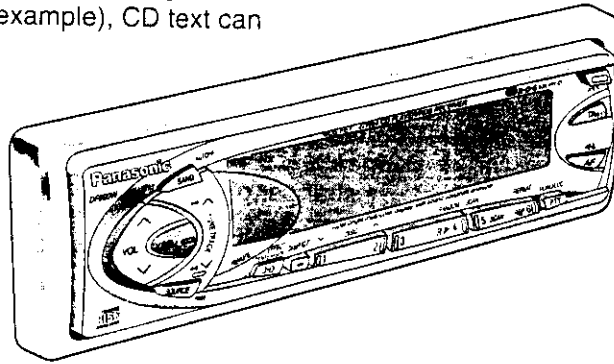
Press [5](SCAN) again to cancel.

CD Changer Basics

When the unit is connected with a CD text recognizable CD changer (CX-DP9061EN, for example), CD text can appear on the display.

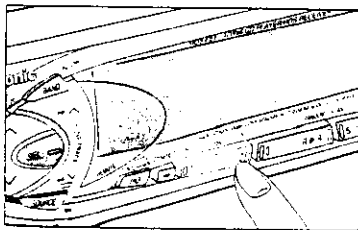
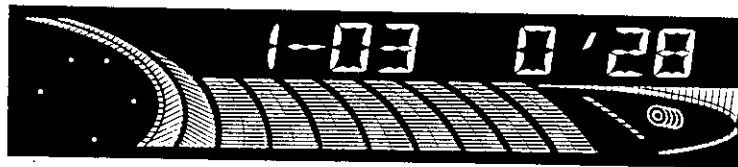
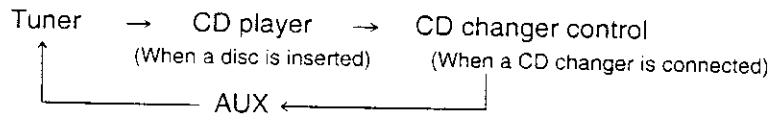
Note:

The CD changer functions are designed for an optional CD changer unit.



Starting the CD Changer

Once the CD changer has been connected, press [SOURCE] to change to the CD changer mode as follows. When a disc magazine is inserted, CD play starts automatically.



Disc Selection

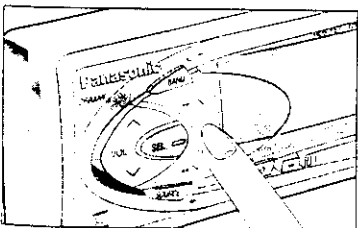
Press [1](∨ DISC) or [2](∧ DISC) to select a disc in descending or ascending order. The corresponding disc starts playing.

Note:

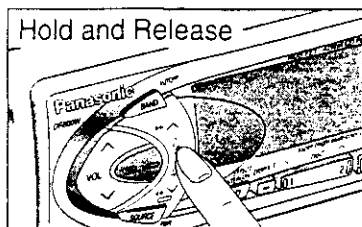
The number of discs you can load the CD changer with is specific to each model.

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.

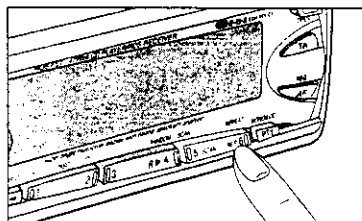


CD Changer Basics (continued)



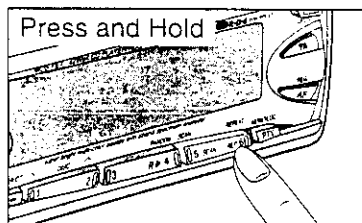
Track Search

- 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 changer play from the released position.



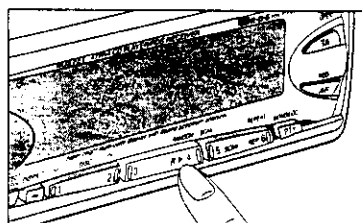
Track Repeat

Press [6](REPEAT) to repeat the current track.
Press [6](REPEAT) again to cancel.



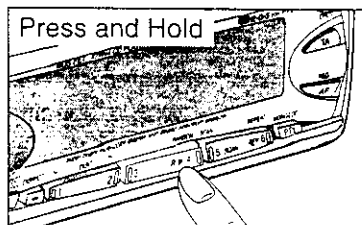
Disc Repeat

Press and hold [6](REPEAT) for more than 2 seconds to repeat the current disc selection.
Press and hold [6](REPEAT) for more than 2 seconds again to cancel.



Track Random

Press [4](RANDOM). All the available tracks on all discs in the magazine will be played in a random sequence.
Press [4](RANDOM) again to cancel.

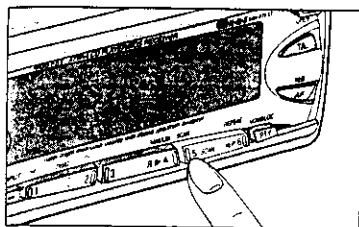


Disc Random

Press and hold [4](RANDOM) for more than 2 seconds. All the available tracks on the current disc will be played in a random sequence.

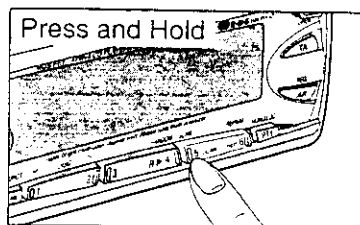
Press and hold [4](RANDOM) for more than 2 seconds again to cancel.

Note: When [6](REPEAT) is pressed in the random mode, random play stops and repeat play starts.



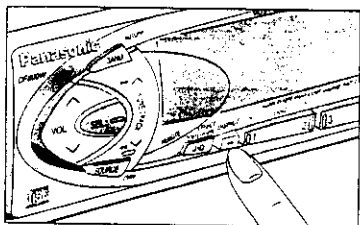
Track Scan

Press [5](SCAN). The display blinks and the first 10 seconds of each track on the discs play in sequence.
Press [5](SCAN) again to cancel.



Disc Scan

Press and hold [5](SCAN) for more than 2 seconds. The 1st track of all the discs in the magazine is played for 10 seconds each.
Press and hold [5](SCAN) for more than 2 seconds again to cancel.



Changing the Display

Press [DISP/CT] to change the display setting as follows.

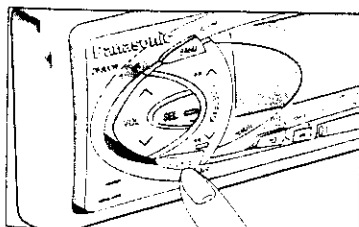
Disc/Track Number/Track Play Time → CT Display
 ↑ Track Title ← Disc Title ←

When [DISP/CT] is pressed for more than 2 seconds while the track title or disc title appears on the display, the title display scroll can be switched on or off. (Default: the title display scroll on)

Notes:

- Track title or disc title appears on the display only when the unit is connected to a CD changer that can recognize CD text (CX-DP9061EN, for example).
- "NO TITLE" appears on the display if a disc which does not support the text display has been loaded.

Auxiliary Source



Selecting the Auxiliary Source

Press [SOURCE] to change to the AUX input mode.

AUX IN

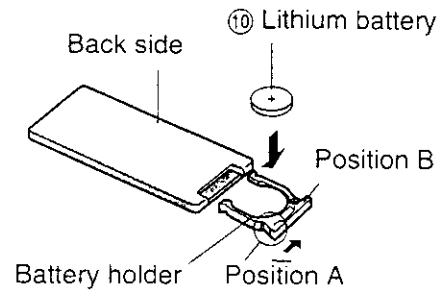
Cancelling the AUX input mode

Press [SOURCE] in the AUX mode to resume the tuner mode.
Alternatively, insert a CD to change to the CD mode.

Remote Control Unit Basics

Battery Installation

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. Install 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:

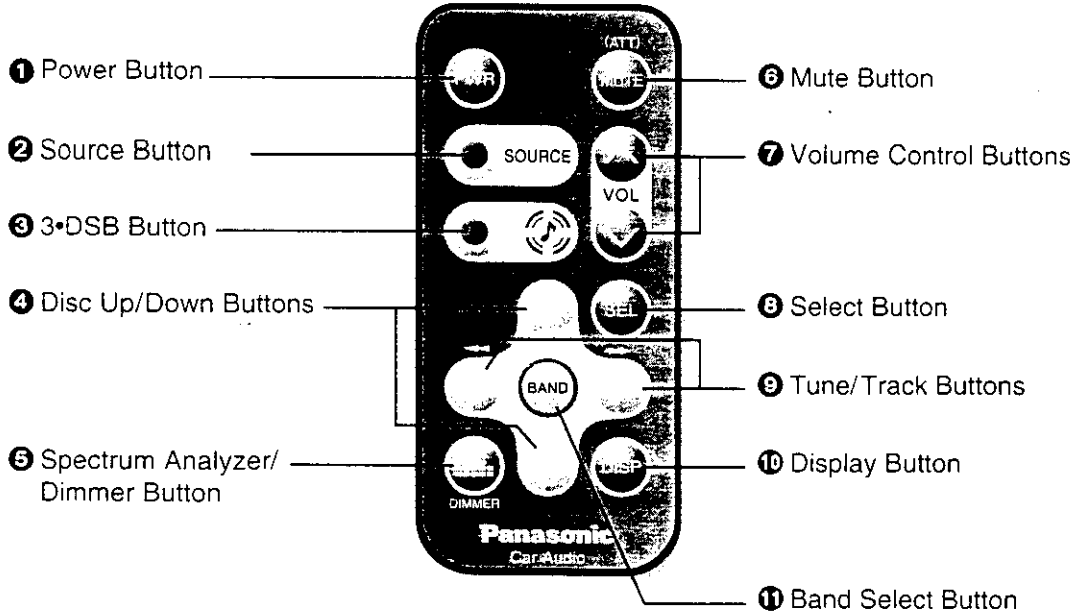
- Battery type: Panasonic lithium battery (CR2025)
- Battery life: 6 months with normal use (at room temperature)

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.
- Be careful to the local disposal rules when you dispose of batteries.

Main Controls



Remote Control Unit Basics (continued)

Radio

Selecting a Band

① BAND (Band Select Button)

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

FM1 → FM2 → FM3 → AM



Manual Tuning

⑨ < > (Manual Tuning Buttons)

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

Seek Tuning

⑨ < > (Seek Tuning Buttons)

Press and hold [>] or [<] 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" and "Auto Station Preset" can be used by the remote control unit. (→ Page 12)

Compact Disc Player/CD Changer Control

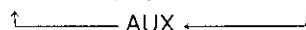
(When a disc is inserted, play starts.)

Starting CD Play

② SOURCE (Source Button)

- Press [SOURCE] to change to the CD play mode after a disc has been inserted. Play will start automatically.
- When the unit is connected with the CD changer, press [SOURCE] repeatedly to change the mode setting as follows.

Tuner → CD player → (CD changer control)



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

Track Selection

⑨ ▶▶ ◀◀ (Track Select Buttons)

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

Track Search

⑨ ▶▶ ◀◀ (Track Search Buttons)

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

Disc Selection

(Only for CD changer control)

④ ^ v (Disc Up/Down Buttons)

(When the CD changer is connected)
Press [^] or [v] to change the discs in ascending or descending order.

Installation Guide

Preparation:

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

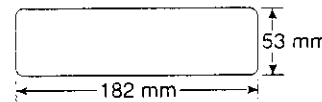
Caution:

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 4.5 mm–6 mm in order to make the installation of the unit.














Installation Precautions

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

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

1. This product is to be used only in a 12-volt, DC battery system (car) with negative ground.
2. Follow the electrical connection (→ page 35) 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	⑦	Removable Face Plate Case		1
②	Hex. Nut (5 mmφ)		1	⑧	Remote Control Unit		1
③	Rear Support Strap		1	⑨	Trim Plate		1
④	Tapping Screw (5 mmφ × 16 mm)		1	⑩	Lithium Battery (CR2025)		1
⑤	Mounting Bolt (5 mmφ)		1	⑪	ISO Antenna Adaptor		1
⑥	Power Connector		1				

Installation Guide (continued)

Precautions

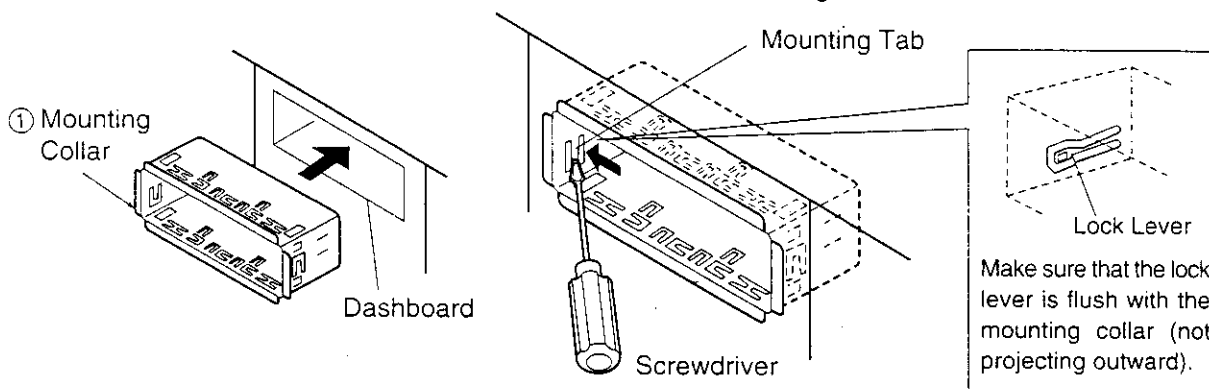
- When bending the mounting tab of the mounting collar with a screwdriver, be careful not to injure your hands and fingers.
- We strongly recommend you to wear gloves for installation work to protect yourself from injuries.

Installation Procedures

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

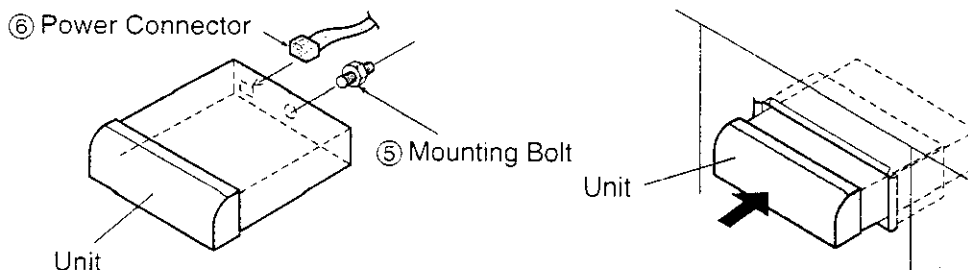
1. Secure Mounting Collar ①.

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



2. Secure the rear of the unit.

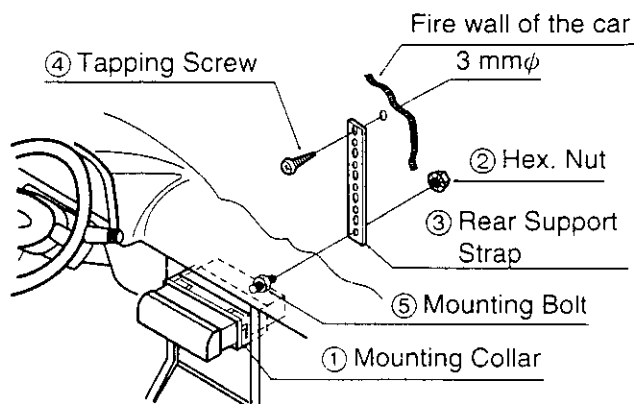
- Check the electrical connections by referring to this operating instructions. (→ Page 35)
- Connect Mounting Bolt ⑤, using a suitable wrench.
- Insert Power Connector ⑥ to the unit.
- Insert the unit into the Mounting Collar ① and push it in until a “click” is heard.



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

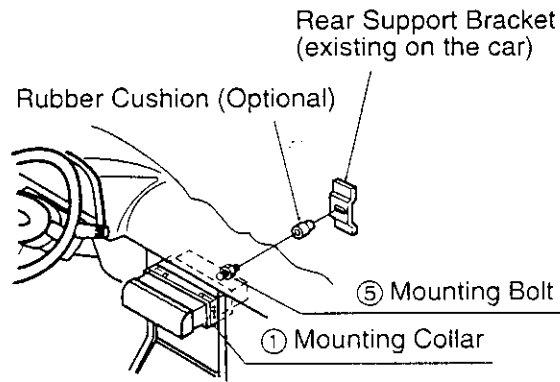
Using Rear Support Strap

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

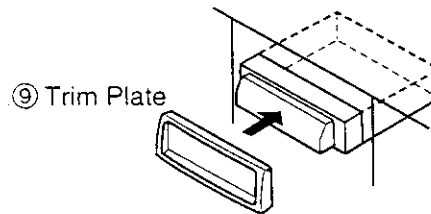


■ Using the Rubber Cushion

(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, and mount it into the existing Rear Support Bracket.



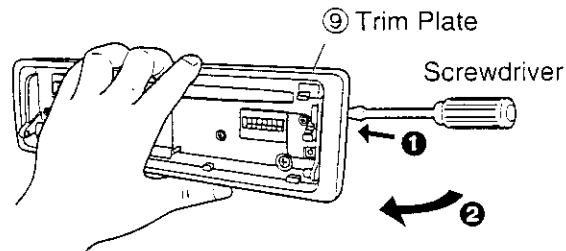
3. Install Trim Plate ⑨.



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

To Remove the Unit

- a) Remove the removable face plate. (→ Page 32)
- 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)

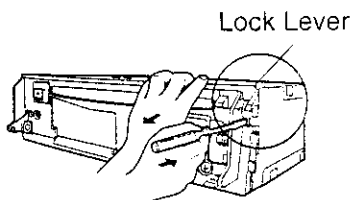


Fig. 1

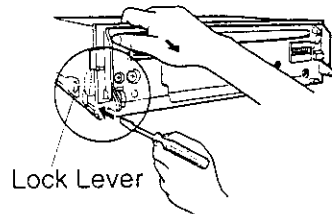


Fig. 2

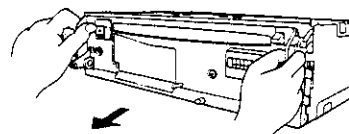


Fig. 3

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. The security indicator will blink.

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)

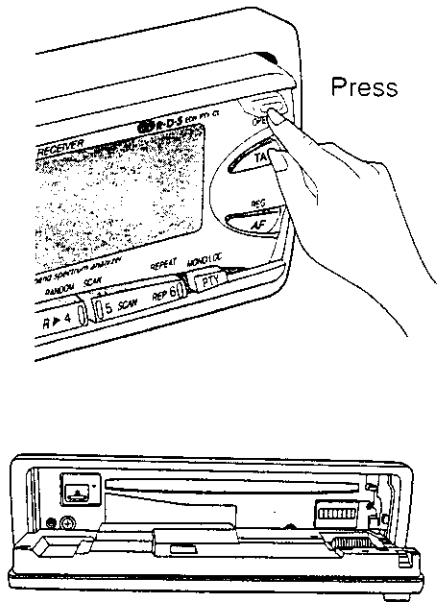


Fig. 4

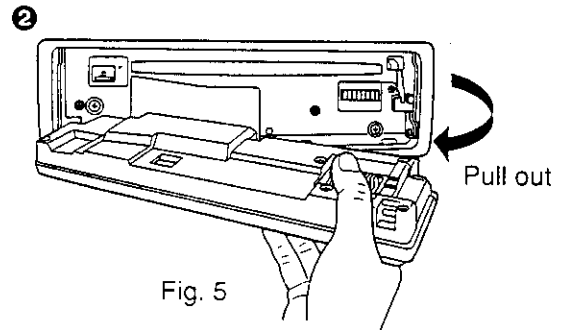
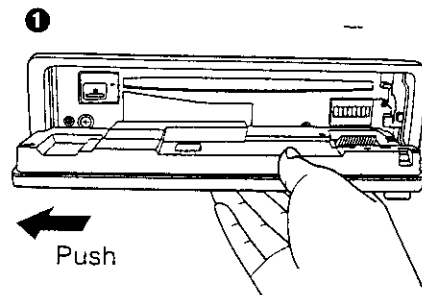


Fig. 5

- ④ As shown in Fig. 6, gently push the lower side of the case and open its cover. Keep the removable face plate in the case. Then you can safely take the plate with you.

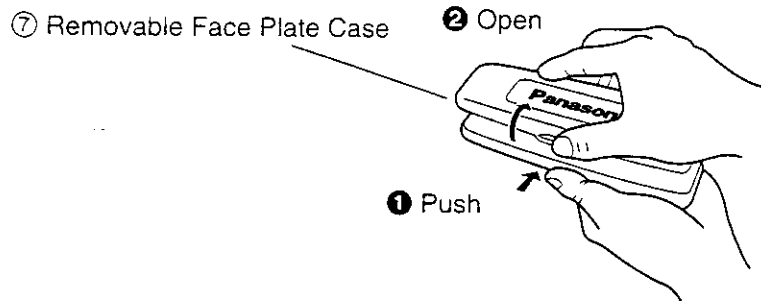


Fig. 6

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.

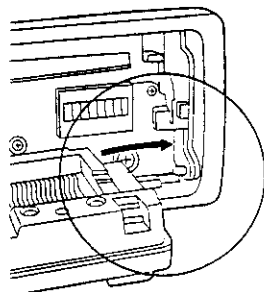
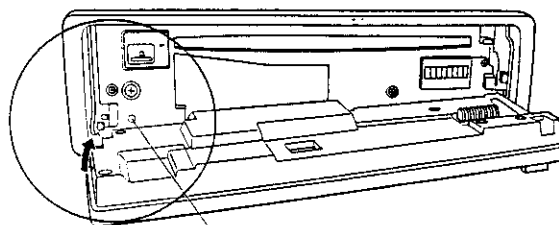


Fig. 7



Security Indicator
(See the next page for details.)

- 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.

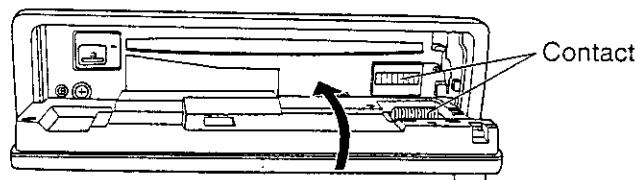


Fig. 8

- 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.

Installation Guide (continued)

Security Indicator

The security indicator blinks when the removable face plate is removed from the unit. (See Figure 7 on the previous page.)

Active Security Indicator

1. ① Press and hold [SEL] for more than 2 seconds to change to the display control mode when the power is on.
- ② Press [SEL] in the display control mode to change to the security indicator mode. (See page 9.)
- ③ Press [^ TUNE] or [v TUNE] to turn the security indicator on or off. (LED On or OFF)
(Default: The security indicator is on.)

Note: "LED On" appears on the display when the security indicator is on.

2. To check whether the unit is set in the LED On mode, make sure that the security indicator blinks when the removable face plate is removed.

Display	Security Indicator	Panel Removable Alarm
LED On	Blinks (Press [^ TUNE] or [v TUNE].)	ON
LED OFF	OFF	OFF

Note: In the display control mode, the display will be back to the previous mode with no operation for more than 5 seconds.

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 indicator is on.

Error Display Messages

E1	Appears on the display when the compact disc is dirty or inverted. The disc will be ejected automatically.
E2	Appears on the display when compact disc is scratched. The disc will be ejected automatically.
E3	Appears on the display when the compact disc stops operating for some reason. Please eject the disc. If the error messages E3 is still displayed, please turn off the car engine (ACC off) and remove the fuse from the battery lead (yellow) for 1 minute. Then reinstall the fuse.
0000	Appears on the display when there is no disc in the magazine.

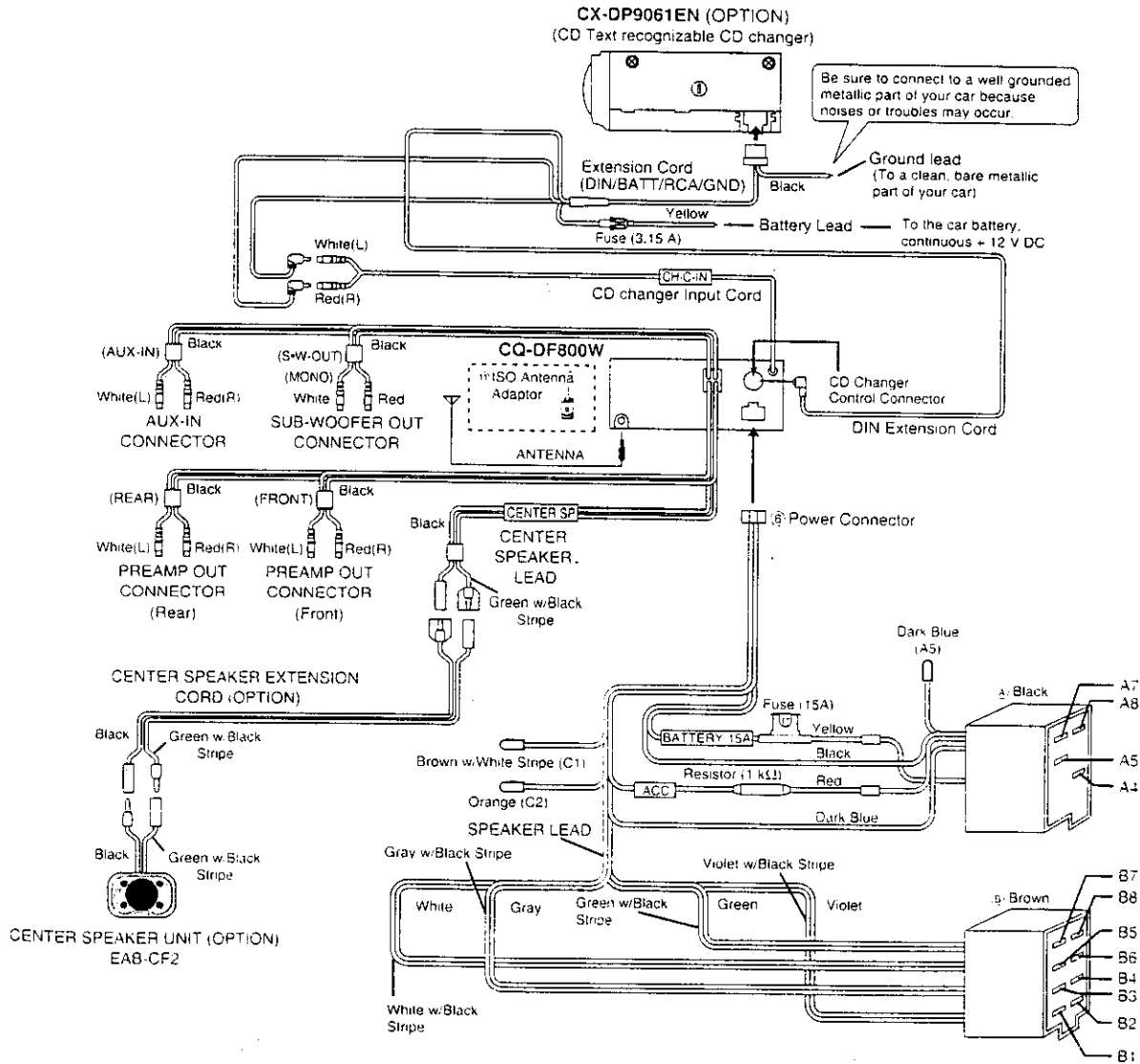
Electrical Connections

Cautions:

- Confirm the note (→ page 4), and make connections to the connectors on car side.
- This product is designed to be used in a car having 12-volt negative ground battery system.
- 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. (the cords except for ISO connector's cords)
- 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.

- This unit can be connected to an optional CD changer (CX-DP9061EN). For details consult your nearest Panasonic Service Center.
- For connection to the CD changer, refer to the operating instructions of the CD changer (CX-DP9061EN).

Wiring diagram



Electrical Connections (continued)

Loudspeakers (connector B: B1–B8)

	Left +	Left -	Right +	Right -
Front	B5 (White)	B6 (White w/Black Stripe)	B3 (Gray)	B4 (Gray w/Black Stripe)
Rear	B7 (Green)	B8 (Green w/Black Stripe)	B1 (Violet)	B2 (Violet w/Black Stripe)

A4

Battery Lead (Yellow)
To the car battery, continuous + 12 V DC

A8

Ground Lead (Black)
To a clean, bare metallic part of the car chassis

A5

Motor Antenna Relay Control Lead (Dark blue)
(To Motor Antenna) (Max. 500 mA)
This lead is not intended for use with switch actuated power antenna.
Amp-Relay Control Power Lead (Dark blue)
This lead is for connection to Panasonic power amplifier.

C1

Not Used

C2

Telephone Mute Lead (Orange)
Connect to the car telephone mute lead.
Note: This telephone mute lead is for connection only to the radio mute lead. Be sure to ascertain this because it will not work with other type of output system.

A7

Power Lead (ACC or IGN) (Red)
To ACC power, + 12 V DC

Navi Mute Lead (Orange)
Connect to the navi mute lead of the Panasonic car navigation system (for example, CN-DV2000EN).

Notes:

Telephone Mute

The sound from the speakers cannot be heard while the telephone conversation is in progress.

Navi Mute

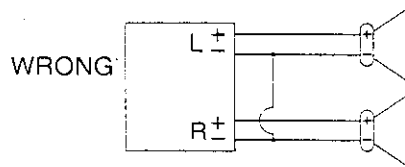
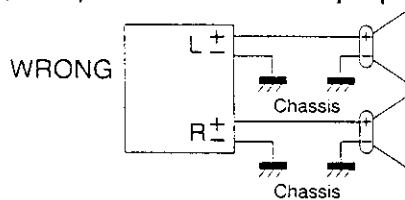
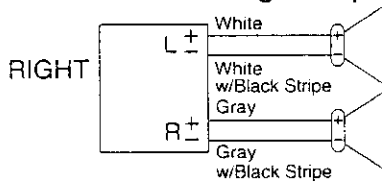
The sound from the speakers cannot be heard while the navigation voice guide is on.

Speaker Connections

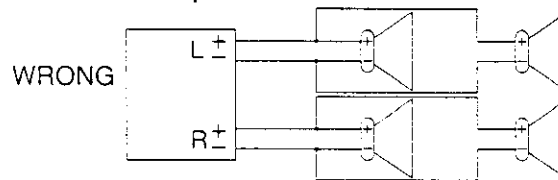
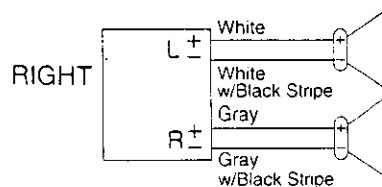
Caution:

1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 47 W 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 30 cm 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.



NOTE: RECOMMENDED EXTERNAL AMP COMBINATION (EXAMPLE)

Pre-Amp out (rear/front)	→ CY-M9054 (4 ch system)
Sub-Woofer out	→ CY-M9054 (2 ch system)

Disc Notes

Handling and Cleaning

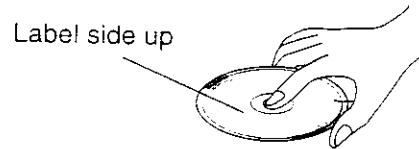
ONLY USE DISCS CARRYING LABEL SHOWN ON THE RIGHT



- 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.



Label side up



Do not touch the underside of the disc.



Do not bend.

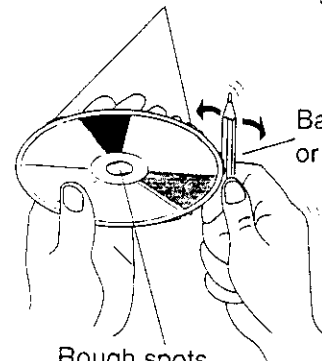


Wipe the disc from center toward the outside edge.

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.

Rough spots on outside edge



Ball-point pen or pencil

Rough spots on inside edge

Fuse

Be sure to use a fuse of the specified rating (15 A) 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	: 47 W×4 channels at 400 Hz, volume control maximum
Power Output	: 22 W×4 (DIN 45 324, at 4 Ω)
Tone Adjustment Range	: Bass; ±12 dB at 100 Hz, Treble; ±12 dB at 10 kHz
Center Speaker Output	: 5 W
Speaker Impedance	: 4–8 Ω
Pre-Amp Output Voltage	: 5.0 V (CD play mode; 1 kHz 0 dB)
Pre-Amp Output Impedance	: 600 Ω
Sub-Woofer Output Voltage	: 5.0 V
Current Consumption	: Less than 2.5 A (CD play mode; 0.5 W×4)
Dimensions (W×H×D)	: 178 (W)×50 (H)×150 (D) mm
Weight	: 1.6 kg

MW Radio

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

LW Radio

Frequency Range	: 153–279 kHz
Usable Sensitivity	: 32 dB/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	: 35 dB (at 1 kHz)

CD Player

Sampling Frequency	: 8 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 kHz)
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.

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