

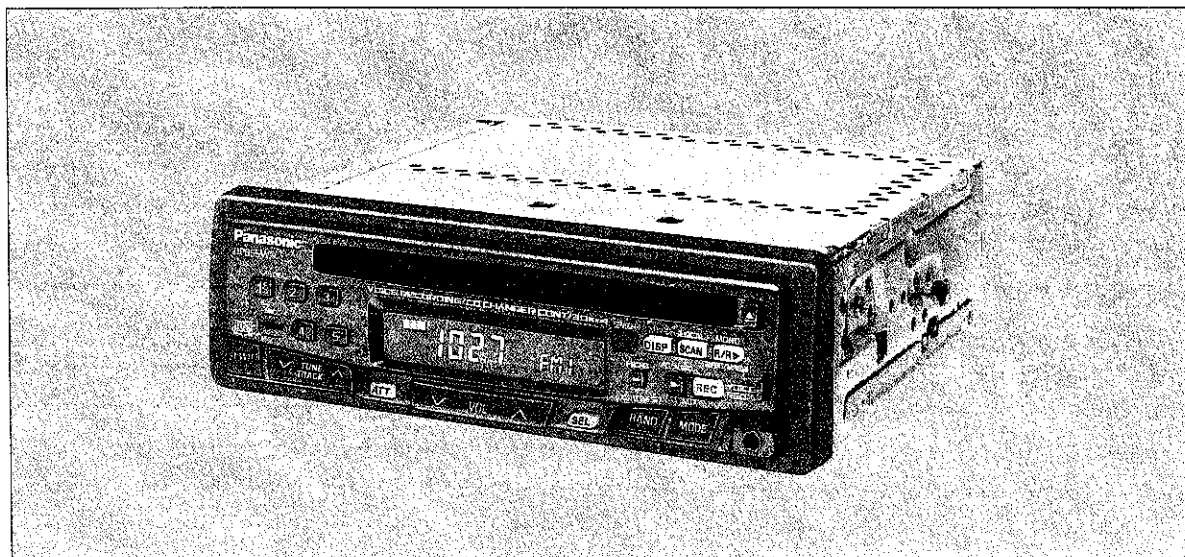
Operating Instructions

操作说明书

Removable Face High-Power CD Player/Receiver
with Voice Recording and CD Changer Control

可拆卸面板、高功率、并附有声音录音及镭射唱盘变换器控制的镭射唱盘放音/收音机。

CQ-DP655EW



Panasonic®

松下电器

Before operating this set, please read these instructions completely.

操作本装置之前，请熟读这些说明。

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





CQ-DP655EW (Operating Instructions)






Correction: Please correct according to the following table.

Page18

WRONG







Supplied Hardware








No.	Item	Diagram	Qty
①	Mounting Collar		1
②	Plain Washer (5 mmφ)		2
③	Spring Washer (5 mmφ)		2
④	Hex. Nut (5 mmφ)		2
⑤	Rear Support Strap		1
⑥	Hex. Bolt (5 mmφ × 25 mm)		1

No.	Item	Diagram	Qty
⑦	Toothed Lock Washer (5 mmφ)		1
⑧	Mounting Bolt (5 mmφ)		1
⑨	Dismounting Pin		1
⑩	Power Connector		1
⑪	Removable Face Plate Case		1

RIGHT

Supplied Hardware

No.	Item	Diagram	Qty
①	Mounting Collar		1
②	Plain Washer (5 mmφ)		2
③	Spring Washer (5 mmφ)		2
④	Hex. Nut (5 mmφ)		2
⑤	Rear Support Strap		1
⑥	Hex. Bolt (5 mmφ × 25 mm)		1

No.	Item	Diagram	Qty
⑦	Toothed Lock Washer (5 mmφ)		1
⑧	Mounting Bolt (5 mmφ)		1
⑨	Dismounting Pin		1
⑩	Power Connector		1
⑪	Removable Face Plate Case		1
⑫	Remote Control Unit		1
⑬	Lithium Battery (CR2025)		1

Panasonic welcomes you to their constantly growing family of electronic product owners. We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value, and reliability we have built into it, you too will be proud to be a member of our family.

Precautions

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 shorts which may cause fire or other damage, do not expose this equipment (including the speaker, CDs or tapes) to water or excessive moisture.

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 and give the interior a chance to cool 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.

Power Supply

This equipment is designed to be used in car having a 12-volt negative ground battery system.

Protect the Compact Disc Mechanism

Avoid insertion of any foreign matters into the slot of the compact disc. Failure to observe this may cause a malfunction due to the precise mechanism of this unit.

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.

Laser Products

Caution:

This product utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser products:

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

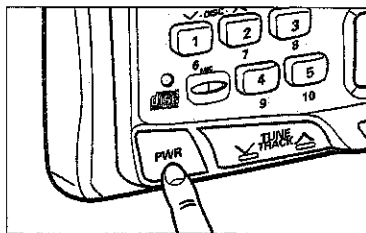
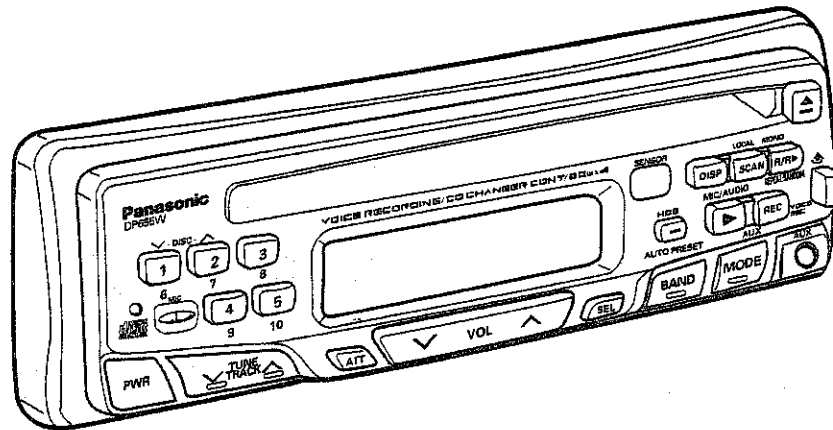
Do not take apart this unit or attempt to make any changes yourself.

This unit is a very intricate device that uses a laser pickup to retrieve information from the surface of compact discs.

The laser is carefully shielded so that its rays remain inside the cabinet.

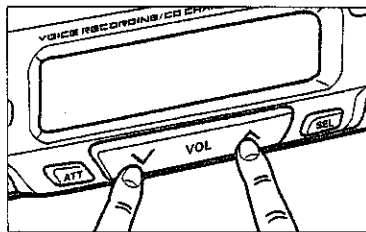
Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

Power and Sound Controls



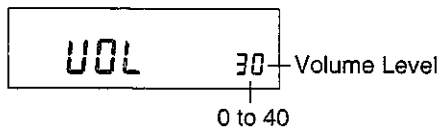
Power

If the car is not already running, turn the key in the ignition until the accessory indicator lights.
Press PWR to switch on the power.

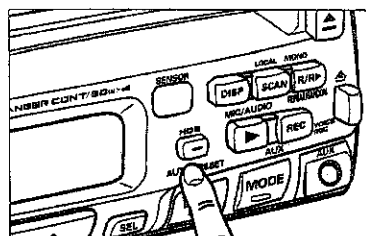


Volume

Press "VOL^" or "∨VOL" to increase or decrease volume.



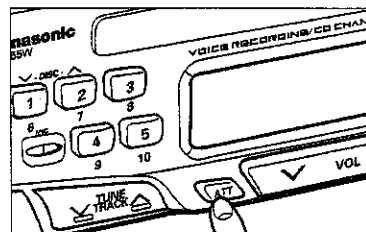
Press "VOL^" or "∨VOL" for more than a half second to change numeric levels on the display rapidly.



HDB (High Definition Bass)

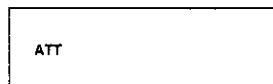
Especially for rock music, the bass-sound will be more powerful.

- Press HDB to be able to listen to high-definition bass.
- Press HDB again to return to the normal tone.

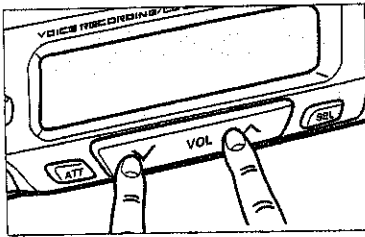
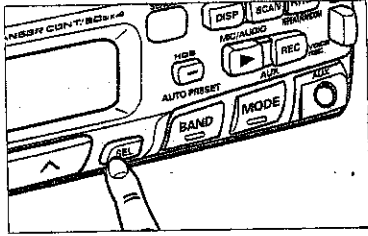
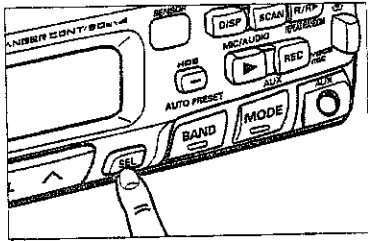


Attenuator

- Press ATT. Volume will decrease to about 1/10 of its previous level.
- Press ATT again to deactivate when listening at normal volume.



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 sudden loud volume. This system operates as follows. When PWR is switched on, the volume level is low. After that, the volume level gradually returns to its previous level prior to switching off the unit.



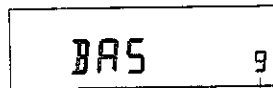
Changing Audio Modes

Press SEL to switch the audio mode in the following order.



Bass and Treble

- Press SEL to select the BASS (TREBLE) mode. Press "VOL^" or "∨VOL" to increase or decrease the bass/treble response.



-12 to 12

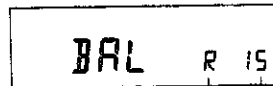


-12 to 12

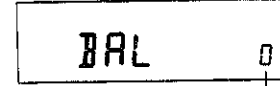
- Press "VOL^" or "∨VOL" for more than a half second to change numeric levels on the display rapidly.

Balance

- Press SEL to select the BALANCE mode. Press "VOL^" or "∨VOL" to shift the sound volume to right or left speakers.



or L 1 to 15

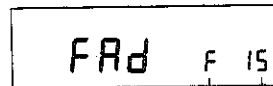


Balance Center

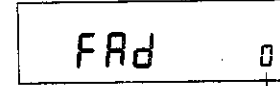
- Press "VOL^" or "∨VOL" for more than a half second to change numeric levels on the display rapidly.

Fader

- Press SEL to select the FADER mode. Press "VOL^" or "∨VOL" to shift the sound volume to the front or rear speakers.



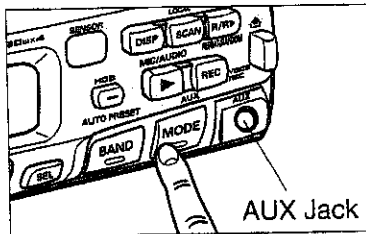
or R 1 to 15



Balance Center

- Press "VOL^" or "∨VOL" for more than a half second to change numeric levels on the display rapidly.

Note: When a control mode (BAS/TRE/BAL/FAd) is selected but no operation is made within 5 seconds, the display will return to the normal operation (volume adjustment) mode. In such a case, press SEL again to select the next control mode.



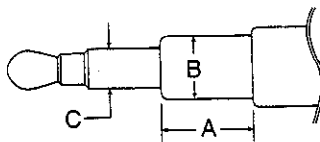
Selecting Auxiliary Source

- Press MODE (AUX) for more than 2 seconds to select AUX Input mode.



- Connect the auxiliary equipment (an optional DCC player deck or any other appropriate equipment) to the AUX Jack.

To resume the previous mode, press MODE.

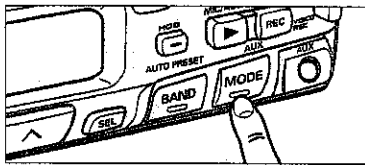
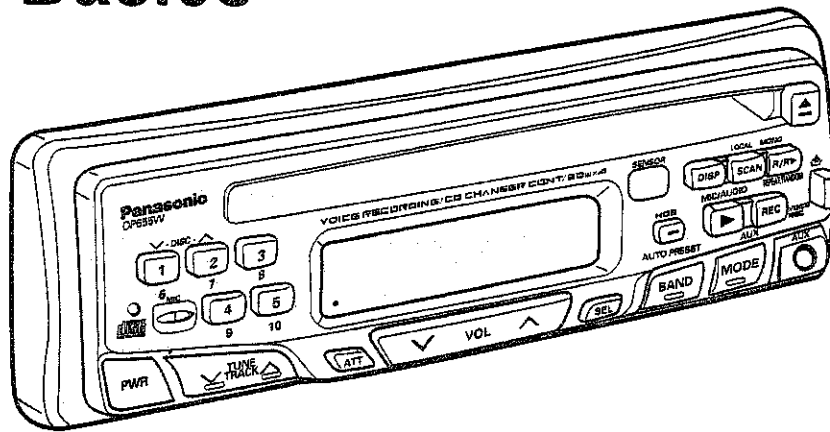


A-MIN 1/2" LONG (12mm)
 B-MAX 2/5" DIA. (10mm)
 C-MIN 1/8" DIA. (3.5mm)

Caution:

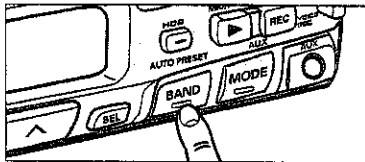
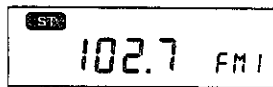
In order to insert the plug into the "AUX" Jack properly, make sure to use the correct size of the stereo plug shown on the left.

Radio Basics



To change Tuner Mode

Tuner mode is selected if the MODE button is pressed in CD Player, CD Changer Control or AUX modes.

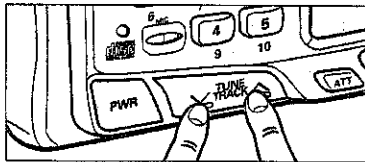


Selecting a Band

Press BAND to select the bands in the following order.

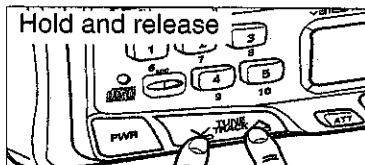
FM1 → FM2 → FM3 → AM

“ST” indicator lights if the station is broadcasting in stereo.



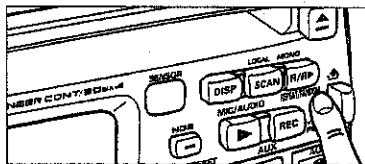
Manual Tuning

Press “TUNE^” or “TUNE^-” to move to a higher or lower frequency.



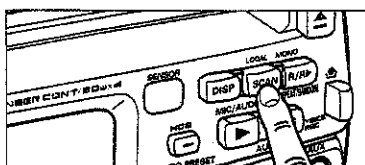
Seek Tuning

Press and hold “TUNE^” or “TUNE^-” for more than a half second, then release. The radio automatically stops on the next station.



To reduce interference during FM stereo broadcasts

Press the MONO to switch monaural reception in case much interference is present in an FM stereo signal or to improve the listening quality of weak FM broadcasts. To turn it off, press the MONO again.

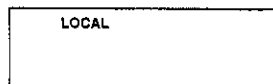


Switch from DX to LOC

Normally, searching stops even at a weak wave station. (DX mode)

To stop searching at a strong wave station only, press LOCAL.

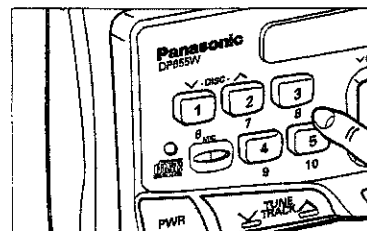
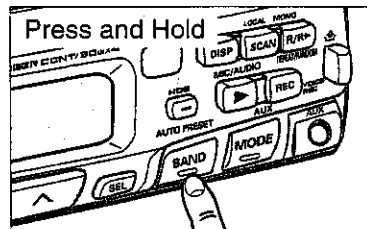
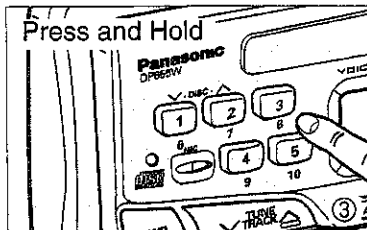
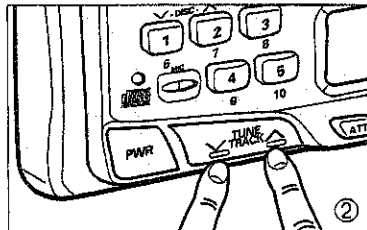
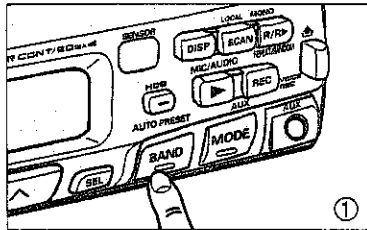
To turn it off, press LOCAL again.



Preset Station Setting

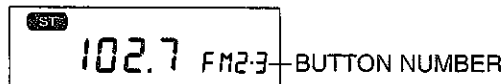
Up to 20 stations can be preset in the station memory as follows;

FM1	FM2	FM3	AM
5 stations	5 stations	5 stations	5 stations



Manual Station Preset

- ① Press BAND to select a desired band.
 - ② Use manual or seek tuning to find a station that you want to program into memory.
 - ③ Press and hold one of the station selector buttons 1 through 5 until the display blinks.
- Repeat the process to set other stations for the FM1 to AM bands.



Note; You can change the memory setting by repeating the above procedure.

Tuning in a Preset Station

Press any of the buttons 1 through 5 to tune in the station preset by the above steps ① to ③.

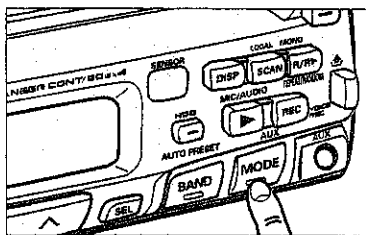
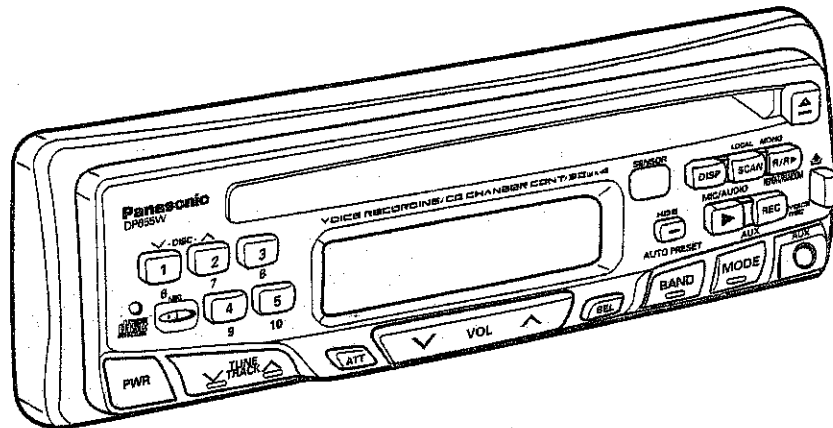
Auto Station Preset

Select a band and press and hold BAND (AUTO PRESET) for more than 2 seconds.

- The five strongest available stations will be automatically set in memory preset buttons 1 through 5.
- Once set, the preset stations are sequentially scanned for 5 seconds.
- Press the appropriate preset button for the station you want to hear.

Caution: For safety reasons, do not attempt to program while driving.

Compact Disc Player Basics



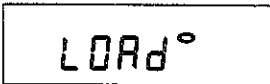
Mode Selection

While the disc is inserted, press MODE to switch the operation mode in the following order.

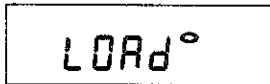
Radio → CD Player → CD Changer Control

To start the CD Player

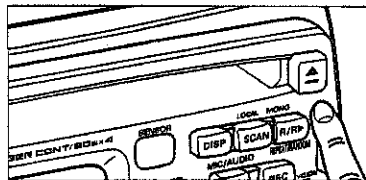
Insert the disc (label side up) and playback starts automatically.



"LOAD" will be displayed until the disc is loaded. Play starts from first track.

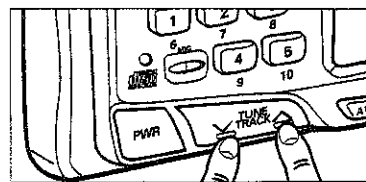


Note: While the disc is inserted, "●" indicator will light. If you press "MODE" after the disc is ejected, the disc will be re-inserted.



Stopping and Ejecting a Disc

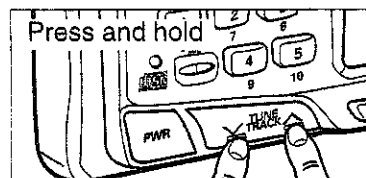
Press "▲" to stop CD play, and the disc will quietly eject from the CD slot. (During disc ejection, "EJ" will be displayed.)



Selecting a Track

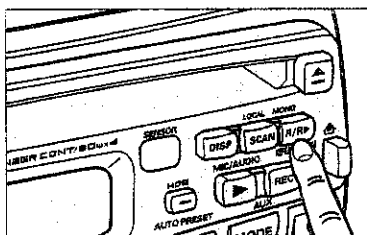
Press "TRACK^" once to go to the next track. Press repeatedly to step forward through all the tracks.

Press "▽TRACK" once to play from the beginning of the track you are listening to. Press twice to play the previous track. Press repeatedly to step backward through all the tracks.



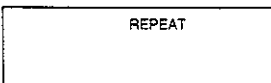
Searching a Track

Press and hold "TRACK^" or "▽TRACK" for more than a half second to activate fast forward or reverse through a track. Press "TRACK^" or "▽TRACK" again to end the search mode.

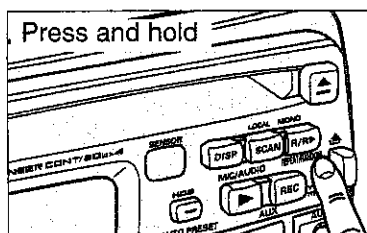


Repeating a Track

Press R/R▶ to repeat the current selection. "REPEAT" indicator will light.



The current selection will continue to repeat until you press R/R▶ again.



Random Selection

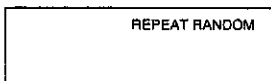
Press and hold R/R▶ for more than 2 seconds. "RANDOM" indicator will light. A random selection of music is played from all available tracks.



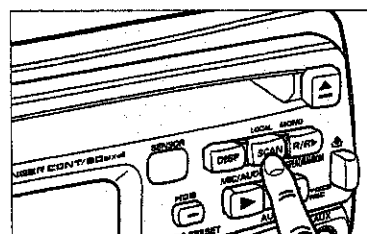
To turn off the random play feature, press and hold R/R▶ again for more than 2 seconds.

Notes:

- If the R/R▶ is pressed during random play, the track now in play automatically returns to its beginning upon coming to the end and plays back again. (Random repeat)

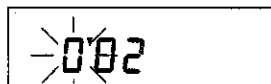


- When the R/R▶ is pressed again, repeat play stops and returns to random play.
- If the same button is pressed again for more than 2 seconds, random play stops and repeat play starts.

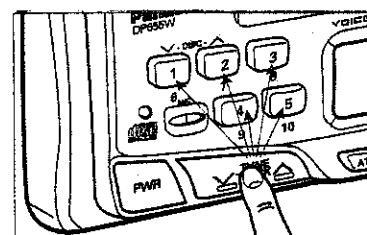


Scanning a Disc

Press SCAN. The display will blink and the first 10 seconds of each track on the disc play in order.



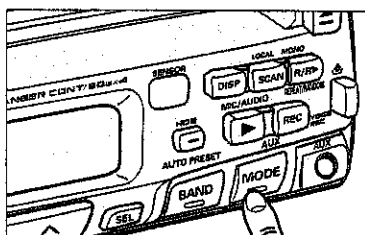
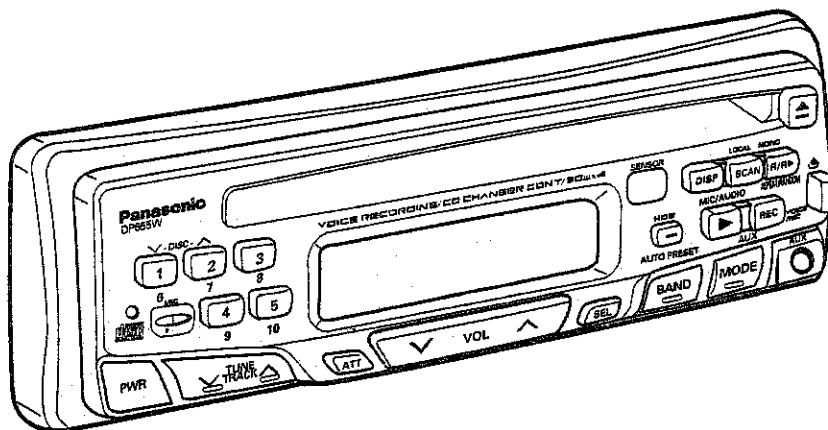
To stop scanning and continue with the current track, press SCAN again.



Selecting by Track Number (Direct access)

- Press a number from "1" to "5" then the corresponding track will start.
- Press and hold a number from "6" to "10" ("1" to "5") for more than one second and the corresponding track will start.

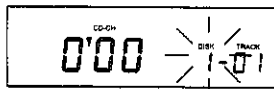
CD Changer Basics



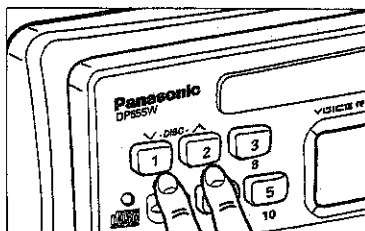
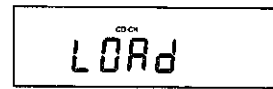
To start the CD Changer

With a disc magazine inserted in the CD Changer, press MODE. Play starts from first track.

[Only for CX-DP600],
CX-DP2000]



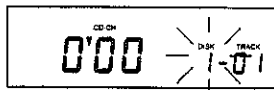
[Only for CX-DP15]



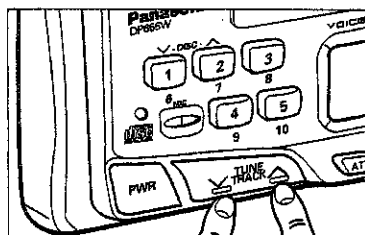
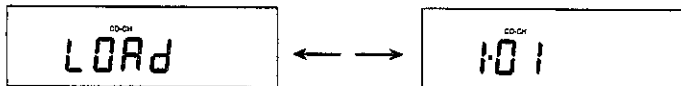
Selecting a Disc

Press "∨DISC" or "DISC∧" to select discs in descending or ascending order. Display shows as follows until the selected disc is loaded. Play starts from first track.

[Only for CX-DP600, CX-DP2000]



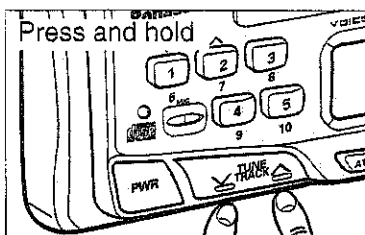
[Only for CX-DP15]



Selecting a Track

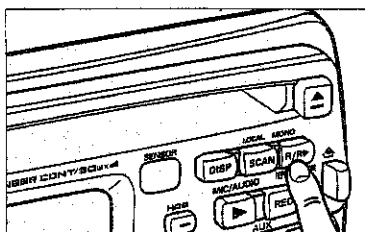
Press "TRACK∧" once to go to the next track. Press repeatedly to step forward through all the tracks.

Press "∨TRACK" once to play from the beginning of the current track. Press twice to play the previous track. Press repeatedly to step backward through all the tracks.



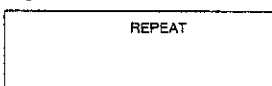
Searching a Track

Press and hold "TRACK^" or "▽TRACK" for more than a half second to activate fast forward or reverse through a track. Release "TRACK^" or "▽TRACK" to resume the normal CD play from that position.

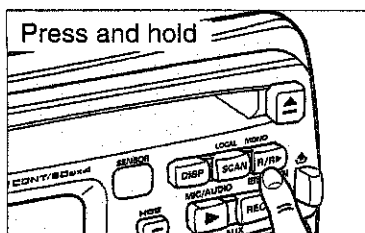


Repeating a Track

Press R/R▶ to repeat the current selection. "REPEAT" indicator lights.

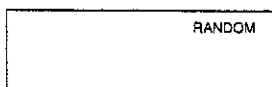


The current selection continues to repeat until you press R/R▶ again.



Random Selection

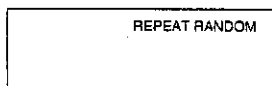
Press and hold R/R▶ for more than 2 seconds. "RANDOM" indicator will light. A random selection of music is played from all available tracks.



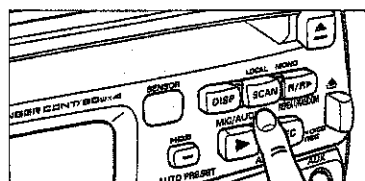
To turn off the random play feature, press and hold R/R▶ again for more than 2 seconds.

Note:

- If the R/R▶ is pressed during random play, the track now in play automatically returns to beginning upon coming to the end plays back again. (Random repeat)



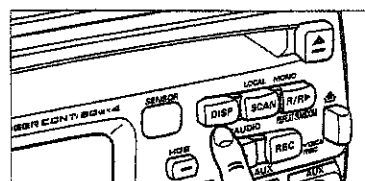
- When the R/R▶ is pressed again, repeat play stops and returns to random play.
- If the same button is pressed again for more than 2 seconds, random play stops.



Scanning Tracks

Press SCAN. The display blinks and the first 10 seconds of each track on the discs play in sequence.

To stop scanning and continue with the current track, press SCAN again.

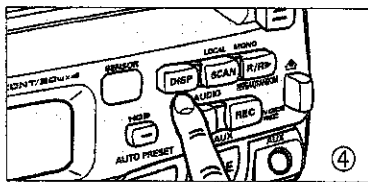
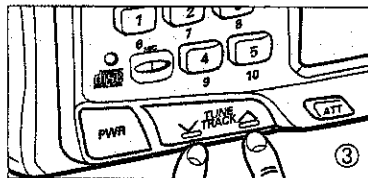
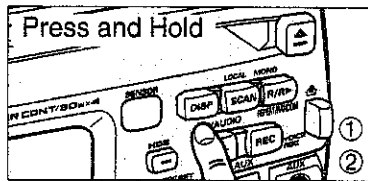
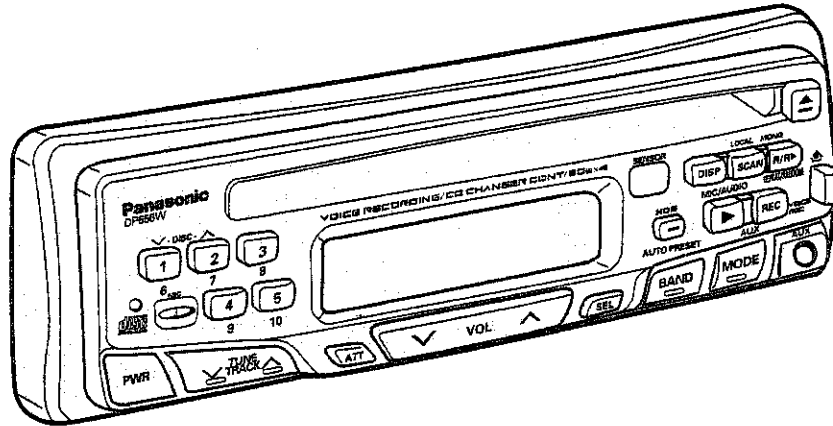


Changing the Display (only for CX-DP15)

Press DISP to switch the display in sequence as follows.



Clock Basics (The clock system is 12-hours.)

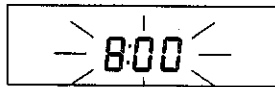


Initial Time Setting

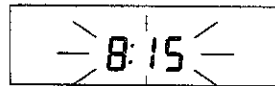
- ① Press and hold DISP for more than 2 seconds, "AdJ" is displayed.
- ② Press and hold DISP again for more than 2 seconds, "AdJ" blinks indicating the time setting mode is activated.



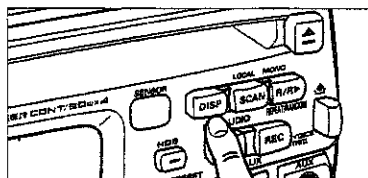
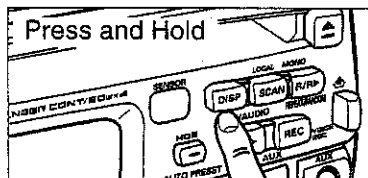
- ③ To set hours, press "∨ TUNE/TRACK".



- To set minutes, press "TUNE/TRACK ^".



- Hold "∧" or "∨" to change numbers rapidly.
- ④ When you have set the time, press DISP.



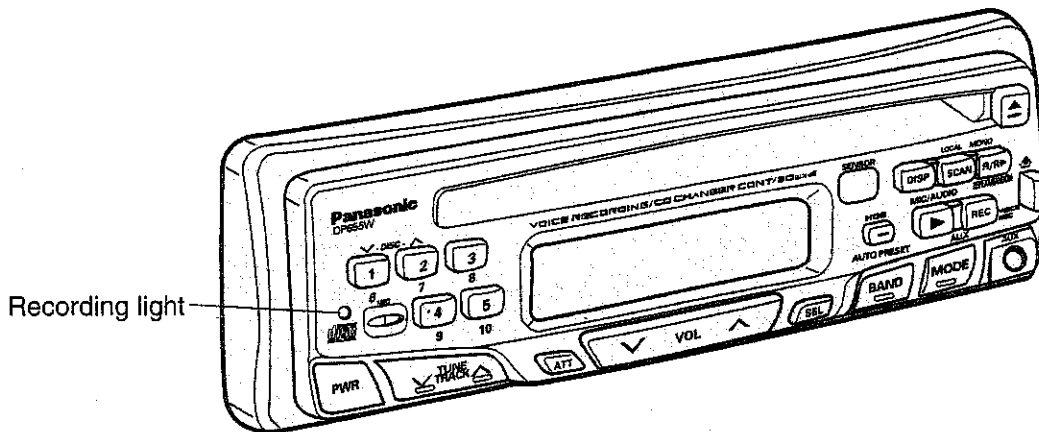
Resetting the Time

When you want to reset the time, press DISP and hold it for more than 2 seconds for 2 times to activate the time setting mode (for 1 time when the time is displayed). On the time display, repeat step ③ and ④ above.

Selecting the Clock Display

Press DISP once again, the current audio display mode resumes. Press and hold DISP for more than 2 seconds for clock display.

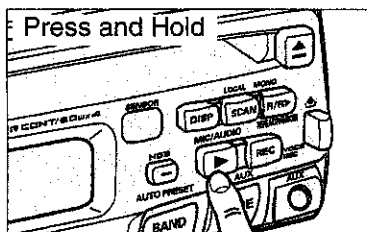
Voice Recording



The Voice Recording function offers record/playback of program from the unit and external source from the built-in microphone for up to 20 seconds. It is mainly used as follows:

1. To record and playback important notes.
2. To record and playback surprise messages to others.
3. To record a simple direction for other drivers and use it as a road guide.

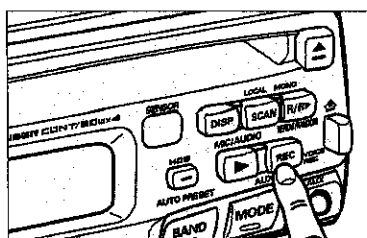
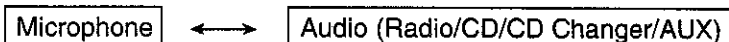
There are many other ways to enjoy this function as you like.



Operation method

Changing Record Mode

- When "▶ (PLAY)" is pressed for more than 2 seconds, record mode changes from MIC to an audio mode (Radio/CD/CD Changer/AUX). ("MIC" indicator turns off from LCD display)
- When "▶ (PLAY)" is pressed again for more than 2 seconds, record mode changes from an audio mode to MIC. ("MIC" indicator turns on)



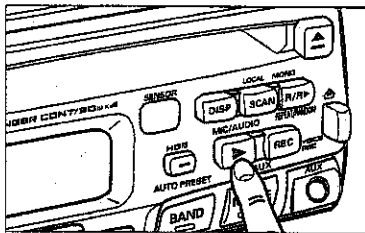
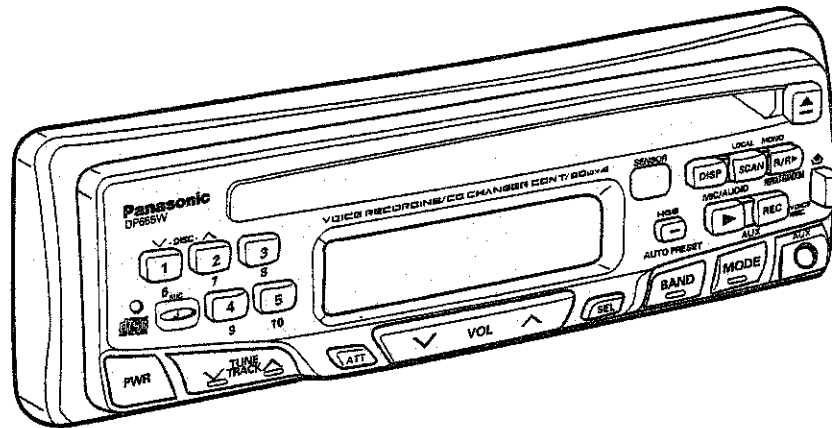
To record

- When "REC" is pressed for more than 2 seconds during the MIC record mode, external sound is recorded through the built-in microphone.
- When "REC" is pressed for more than 2 seconds during the audio record mode (Radio/CD/CD Changer/AUX), current program from the unit is recorded.
- When "REC" is pressed for more than 2 seconds again, (before the 20 seconds end) record ends.
- When recording reaches at the end of 20 seconds, the recording light turns off.

Note:

1. Maximum recording time is 20 seconds.
2. In the audio mode, the recording from the microphone cannot be made.
3. If you want to erase the previous recorded message, please do.
 - ① Press "REC" for more than 2 seconds until the recording light is turned on.
 - ② As soon as the recording light turns on, press "REC" again for more than 2 seconds until the recording light is turned off.

Voice Recording continued



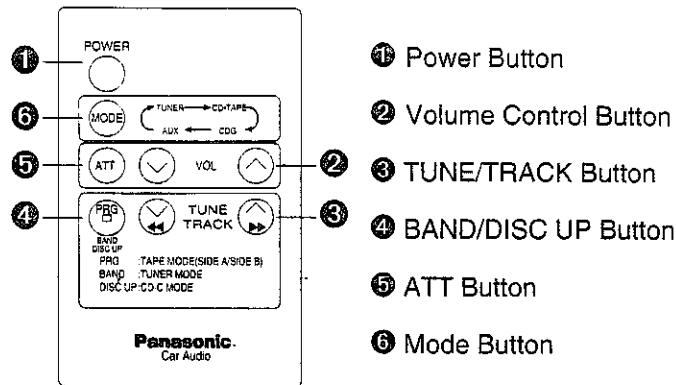
To play

- Press "▶ (PLAY)" to playback the previous recorded message.
- When playback ends, the previous audio mode is resumed.

Caution:

1. Do not make recording while the car in motion.
2. The previous message will be erased, as soon as you press the recording button.
3. Surrounding noise will be recorded, while the recording from microphone.

Remote Control Unit Basics continued



- ① Power Button
- ② Volume Control Button
- ③ TUNE/TRACK Button
- ④ BAND/DISC UP Button
- ⑤ ATT Button
- ⑥ Mode Button

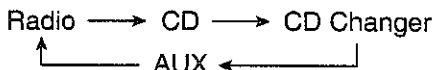
Operating Procedures

Compact Disc Player

(When a disc is inserted, playback starts.)

To starts CD Play

- ⑥ MODE (MODE Button)
 - Only when a disc is inserted, press to select CD play mode, and playback starts automatically.
 - When connecting with the CD changer, press repeatedly to select the mode as follows.



When a disc is inserted, the CD play starts automatically regardless what mode you are being listened.

Selecting a Track

- ⑤ √TRACK^ (Track Select Button)
 - Press “^” once to go to the next track.
 - Press “√” once to play from the beginning of the currently played track.
 - Press repeatedly to skip forward or backward through all the tracks.

Searching a Track

- ③ √TRACK^ (Track Search Button)
 - Press and hold “√” or “^” for more than a half second to activate fast forward or reverse through a track.
 - Press “√” or “^” again to end the search mode.

CD Changer Control

(In connection with the CD changer.)

Selecting a DISC

- ④ DISC UP (Disc Select Button)
 - Press to sequentially advance to the next DISC.

Selecting a Track

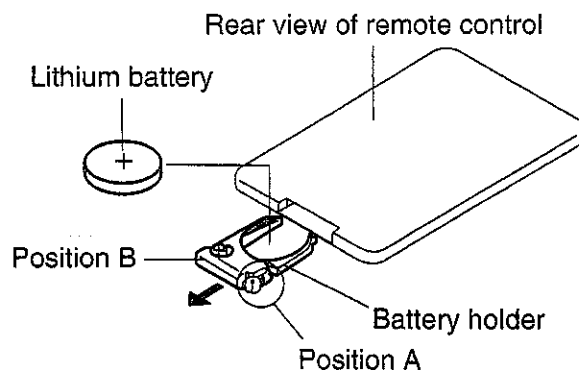
- ③ √TRACK^ (Track Select Button)
 - Press “^” once to go to the next track.
 - Press “√” once to play from the beginning of the currently played track.
 - Press repeatedly to skip forward or backward through all the tracks.

Searching a Track

- ③ √TRACK^ (Track Search Button)
 - Press and hold “√” or “^” for more than a half second to activate fast forward or reverse through the disc.
 - Release to stop fast forward or reverse.

Battery Replacement (Remote Control Unit)

1. Remove the battery holder.
Pull the holder by the Position B while pushing Position A in the direction indicated by the arrow.
2. Replace the battery.
Set a new battery properly with the (+) side up as illustrated.
3. Insert the battery holder.
Push in the holder to the original position.



Notes on Batteries

Old batteries must immediately be removed and disposed.

Battery Information:

- Designated Battery: Panasonic Lithium Battery (CR2025)
- Battery Life: 6 months with normal use (in normal room temperature)

Caution:

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

- Do not disassemble or short the batteries. Do not throw the batteries into the fire.
- To avoid the risk of accident, keep the batteries out of reach of children.

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 Fig. 1. The car's dashboard should have a thickness of 4.5mm - 6mm in order to make the installation of the unit.

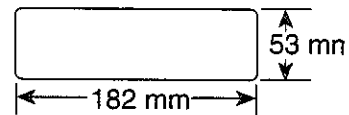


Fig. 1

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 on page 25 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 the positive terminal (+) of the battery of fuse block (BAT) terminal.
5. Insulate all exposed wires to prevent short circuiting.
6. Secure all loose wires after installing the unit.
7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

Supplied Hardware

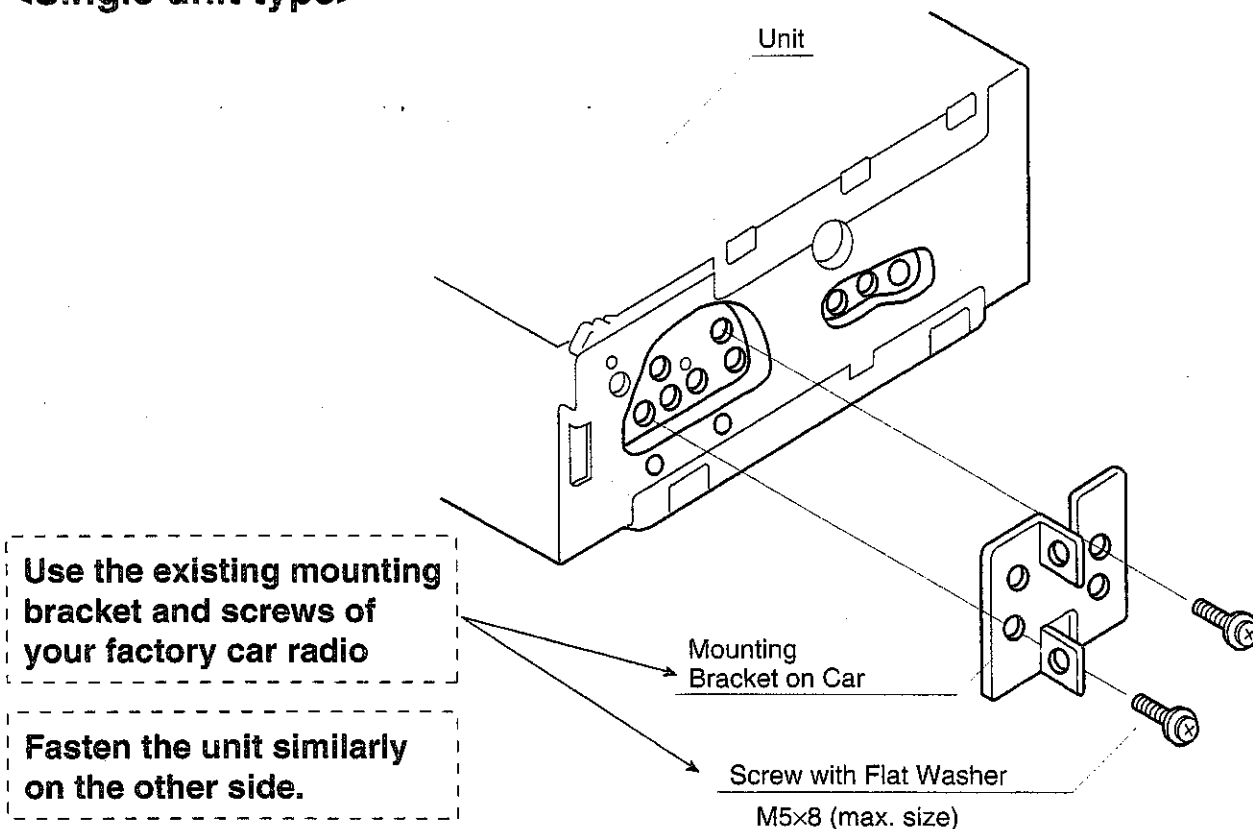
No.	Item	Diagram	Qty
①	Mounting Collar		1
②	Plain Washer (5 mmφ)		2
③	Spring Washer (5 mmφ)		2
④	Hex. Nut (5 mmφ)		2
⑤	Rear Support Strap		1
⑥	Hex. Bolt (5 mmφ × 25 mm)		1

No.	Item	Diagram	Qty
⑦	Toothed Lock Washer (5 mmφ)		1
⑧	Mounting Bolt (5 mmφ)		1
⑨	Dismounting Pin		1
⑩	Power Connector		1
⑪	Removable Face Plate Case		1

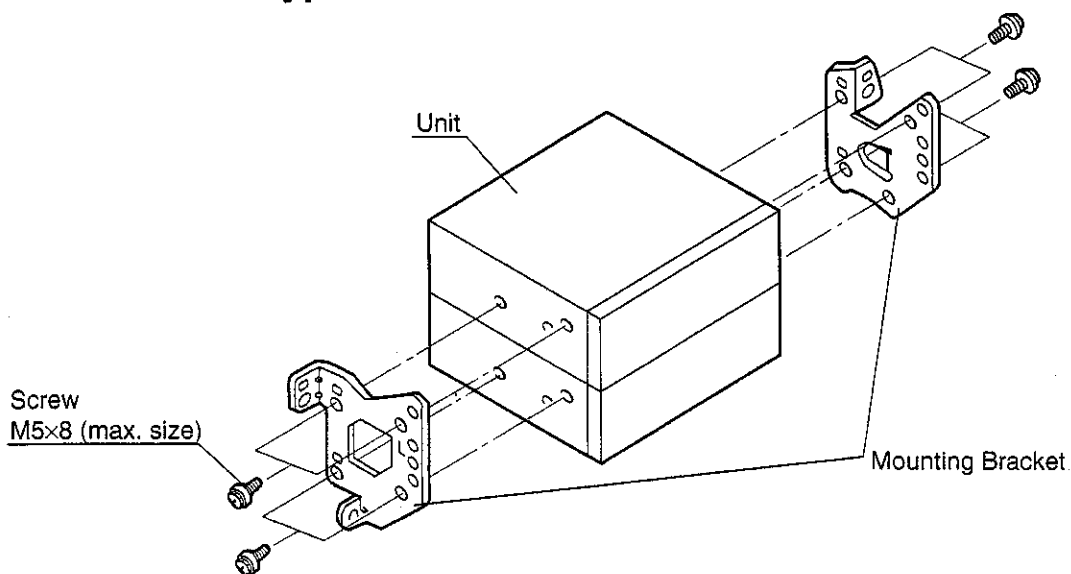
Mounting in a Car equipped with a Factory Radio

If your factory radio has the mounting brackets like the one shown below, you can use it instead of supplied mounting collar.

<Single unit type>



<Double unit type> To dashboard/Center console



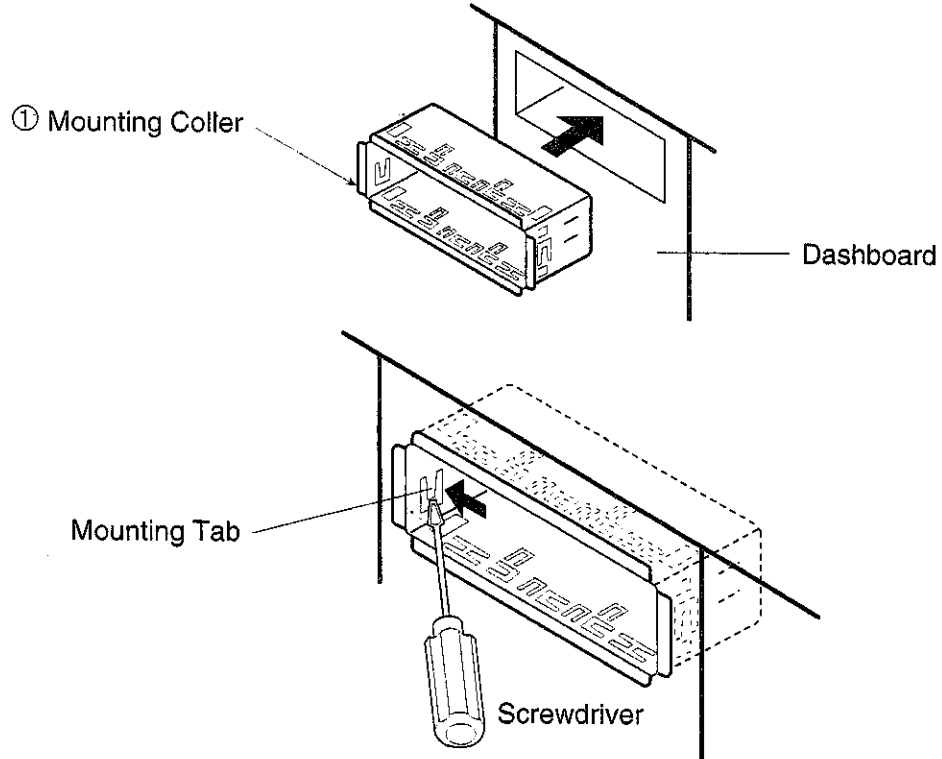
Note: Use the existing mounting bracket and screws of your factory car radio.

Installation Guide continued

□ Installation Procedures

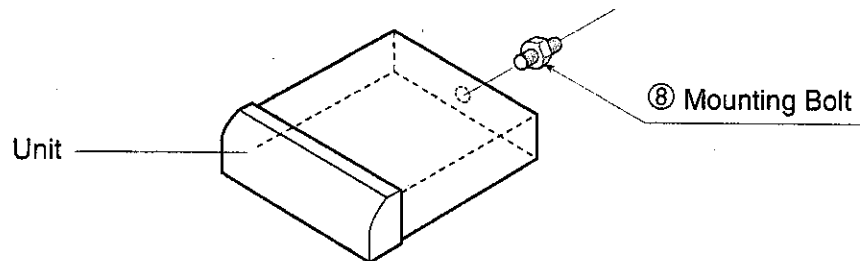
1. Secure the Mounting Collar ①.

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

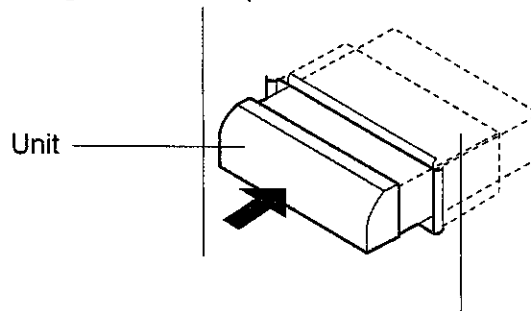


2. Secure the rear of the unit

- a) Check the electrical connection by referring to this operating instructions.
- b) Connect the Mounting Bolt ⑧, using a suitable wrench.



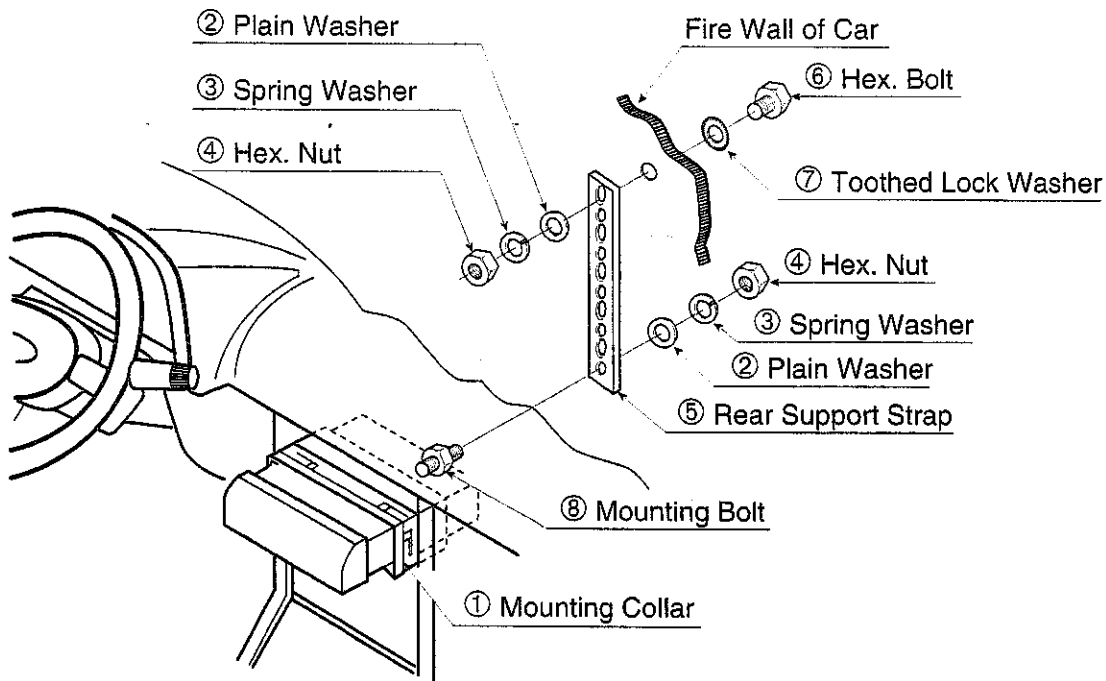
- c) Insert the unit into Mounting Collar ① and push it in until "click" is heard.



- d) Secure the rear of the unit to the car by either of the two recommended methods on the next page.

■ **Using the Rear Support Strap ⑤**

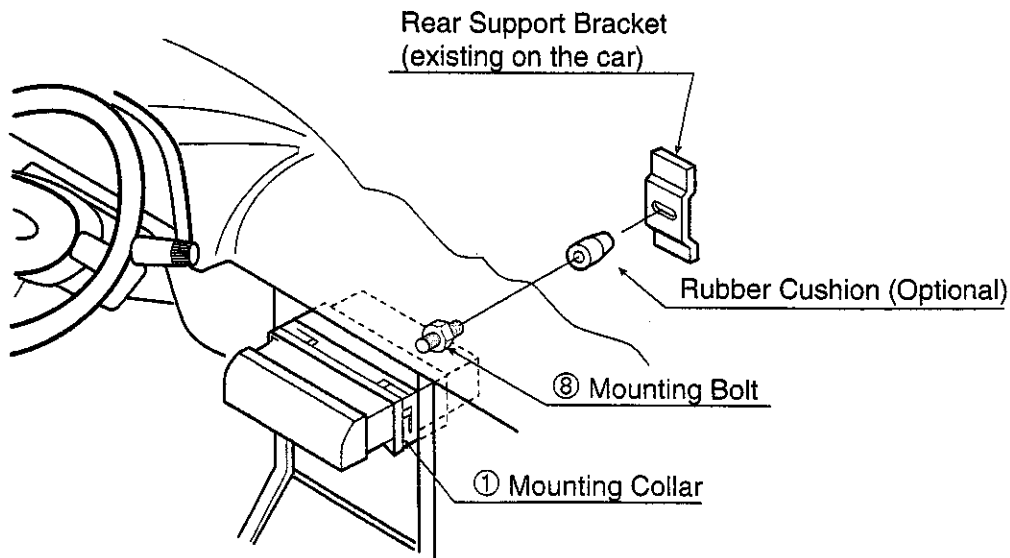
Affix one end of the Rear Support Strap ⑤ to the rear of the unit, and the other end to the Fire Wall of Car, or some other metallic area.



■ **Using the Rubber Cushion (Optional)**

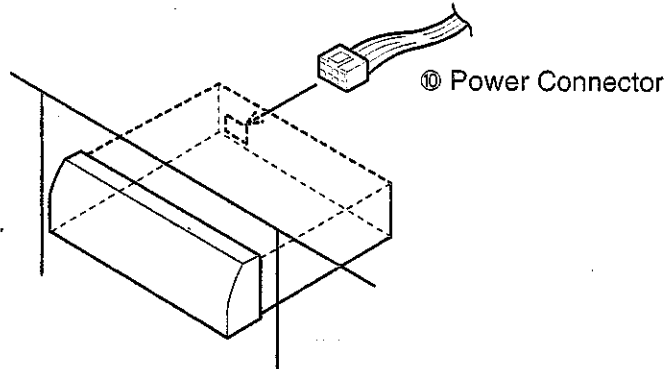
(If there is an existing Rear Support Bracket on the Fire Wall of Car.)

Cover Mounting Bolt ⑧ on the rear of the unit with Rubber Cushion (Optional), and mount it into existing Rear Support Bracket.



Installation Guide continued

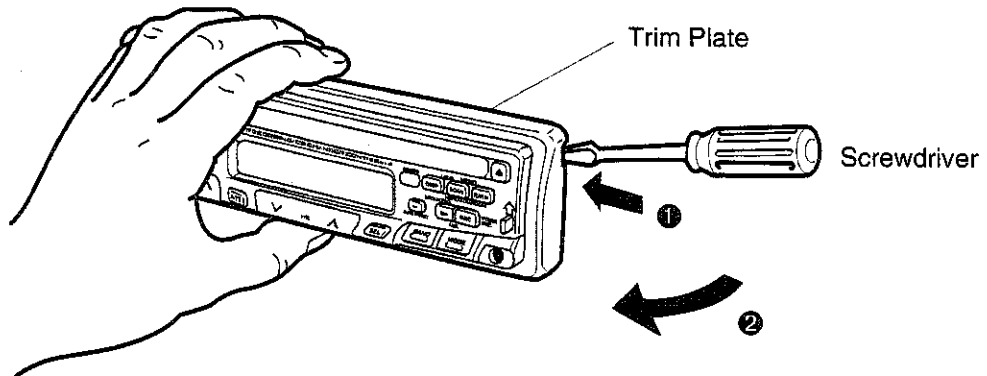
3. Plug the Power Connector ⑩.



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

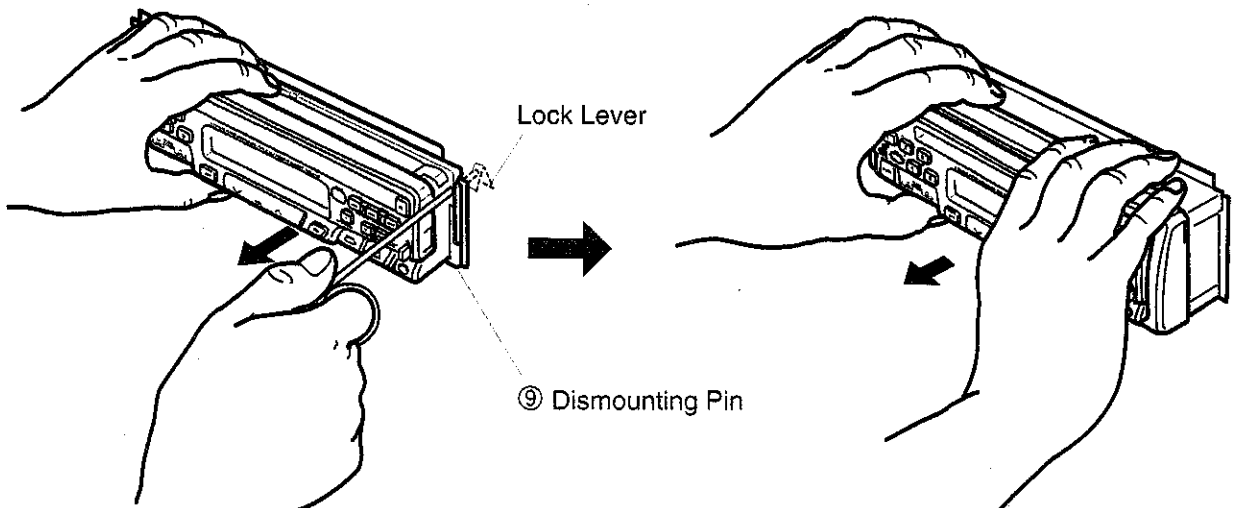
To Remove the Unit

a) Remove the trim plate with a screwdriver as shown in the figure.



b) Pull out the unit while pushing the lock lever using Dismounting Pin ⑨.

c) Remove the unit pulling with both hands.




Note: Do not lose the Dismounting Pin. It will be needed to remove the unit from the car's dashboard.

Anti-Theft System

This unit is equipped with a removable faceplate. By removing this faceplate, the radio becomes totally inoperable. The security indicator will blink.

To Remove the Removable Face Plate

- ① Switch off the power.
- ② Press the release button (). The removable face plate will be released.

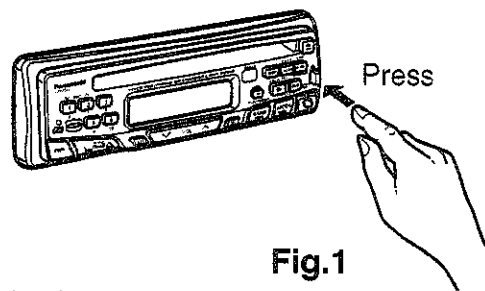


Fig.1

- ③ Remove the removable face plate by pulling on the right side of the unit. Place the removable face plate in a supplied case.

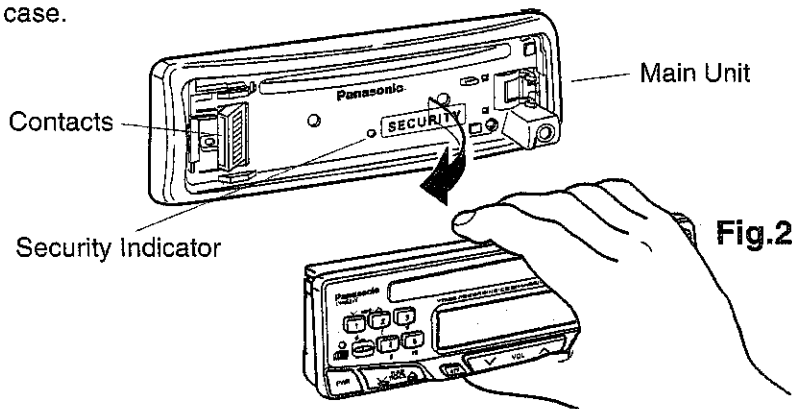


Fig.2

Warning Alarm and Security Indicator

The security indicator blinks when the removable face plate is removed from the unit. Furthermore, the alarm will set off for 1 minute when an attempt is made to remove the unit from the mounting collar.

Activate Warning Alarm and Security Indicator

1. Press and hold SEL for more than 4 seconds when the power is ON. "LED ON" is displayed, and the security indicator and Warning Alarm turn ON.

Note: The ALARM mode is inactivated when it is shipped.

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

Display		Security Indicator	Warning Alarm
LED	Disappears	On	ON
↑		Blinks	(Press SEL for more than 4 seconds.)
LED	Disappears	OFF	OFF

Caution:

1. Warning Alarm malfunctions when not using the exclusive supplied mounting collar.
2. When removing or installing the unit, make sure that it is in the ALARM OFF mode.
3. When the Warning Alarm is activated by mistake, or when you want to remove the unit, the Warning Alarm and the security indicator functions can be canceled by the following steps of procedure.
 - Install the removable face plate.
 - Disconnect the power connector.

Installation Guide continued

- ④ As shown in Fig.3, insert the removable face plate with the arrow pointing toward the removable face plate case until you hear a "click". Keep the removable face plate in the case. Then, you can bring the plate safety.

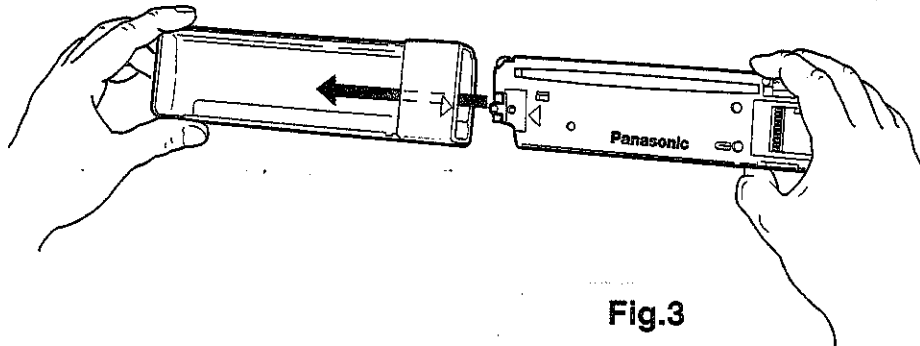


Fig.3

To install the Removable Face Plate

- ① Slide the left side of the removable face plate in place.

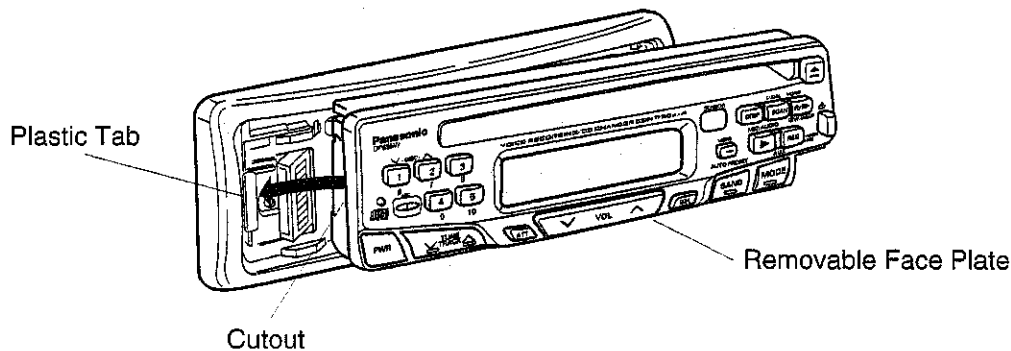


Fig.4

- ② Press the right end of the removable face plate until "click" is heard.

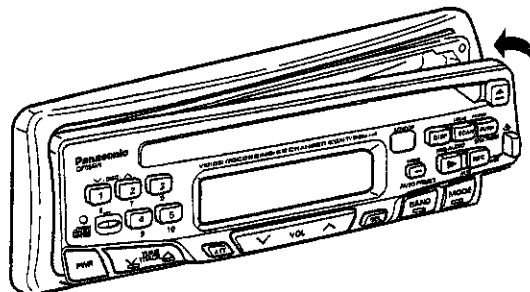


Fig.5

Caution:

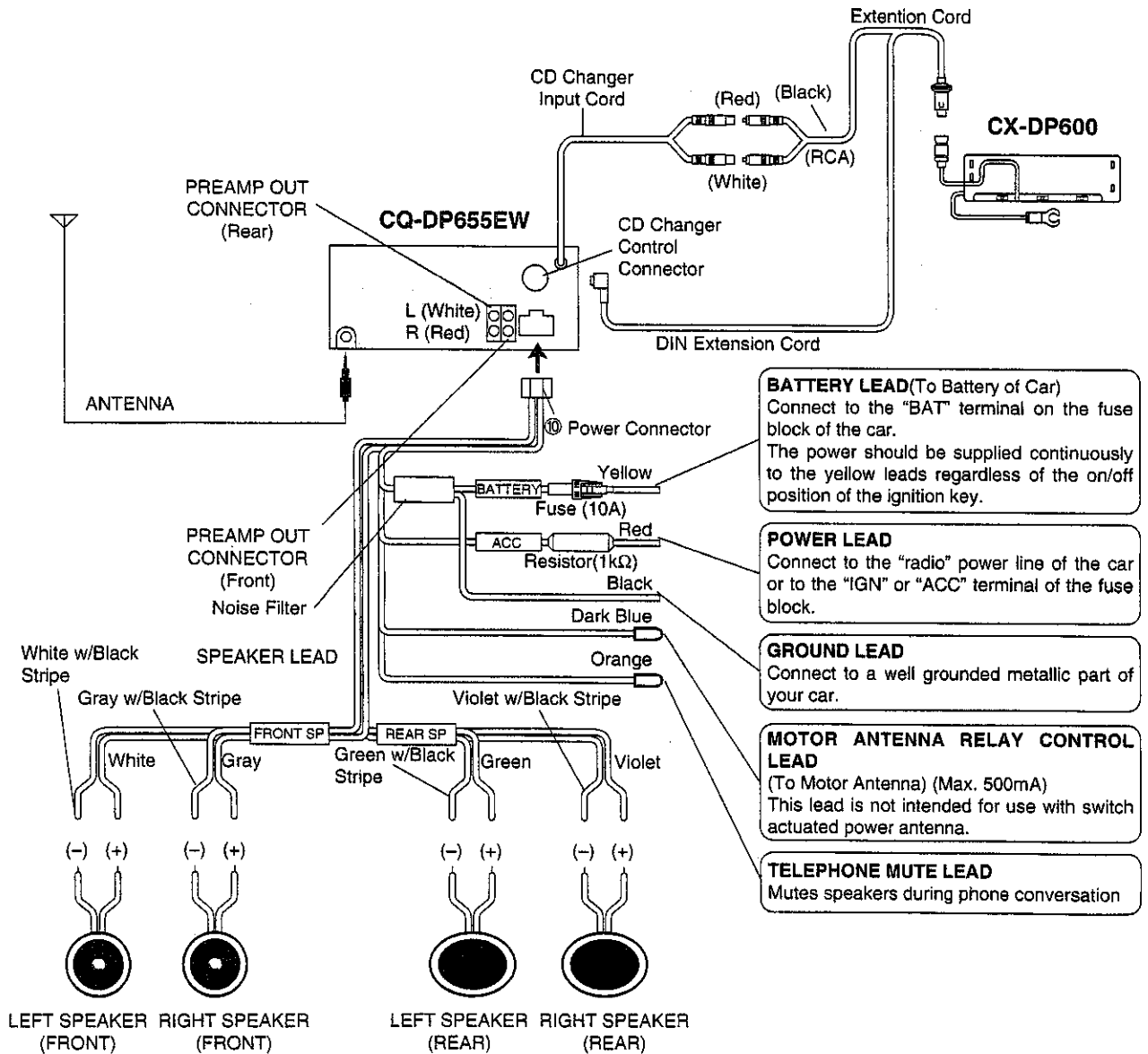
1. Before removing the removable face plate, make sure the power is off.
2. This removable face plate is not water-proof. Do not expose it to water or excessive moisture.
3. Do not remove the removable face plate, while driving your car.
4. Do not place the removable face plate on the dashboard or nearby 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 with a clean, dry cloth.

Electrical Connection

- This unit can be connected to an optional CD changer (CX-DP600). For details consult your nearest Panasonic dealers.
- For connection to a CD changer, refer to the operating instructions of the CD Changer (CX-DP600).

Caution:

- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove the covering of the leads about 5 mm long from their end before connecting.
- Be sure to connect the ground lead (black) to the car chassis first before connecting the other leads to the specified wires of the car.
- 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.

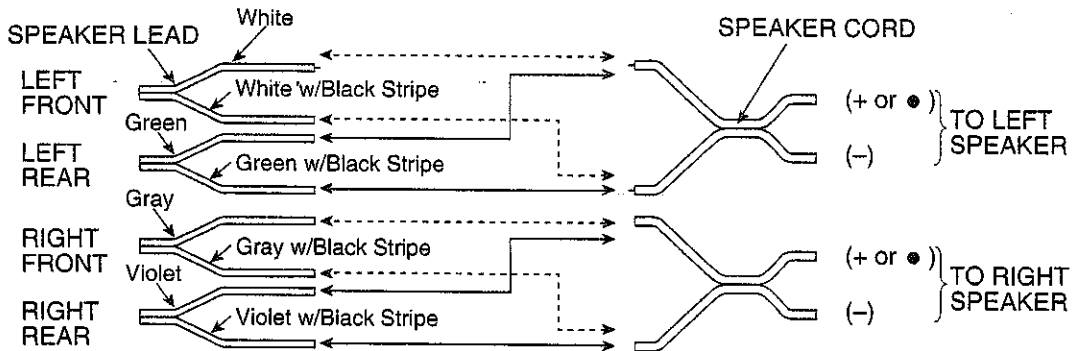


Speaker Connections

2-SPEAKER SYSTEM

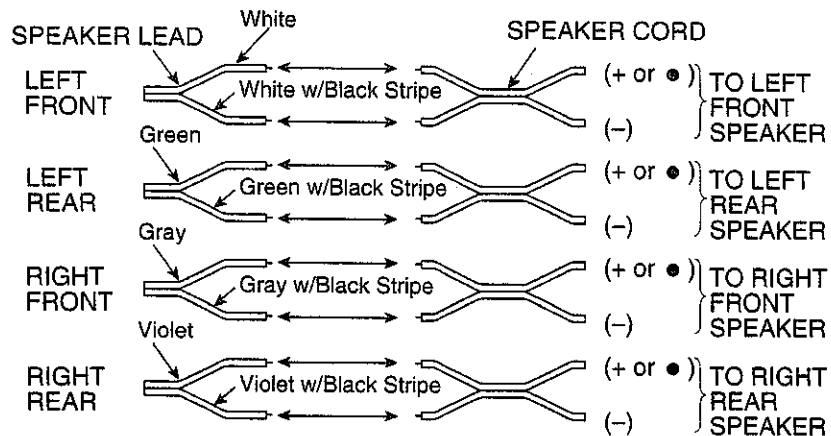
Use only front or rear speaker leads. Do not connect both (Front and Rear) together.

- When the front speakers are used, connect leads as illustrated in dotted lines (----) below.
- When the rear speakers are used, connect leads as illustrated in actual lines (—) below.



- To prevent unused speaker leads from any short-circuiting, protect them with insulating caps.

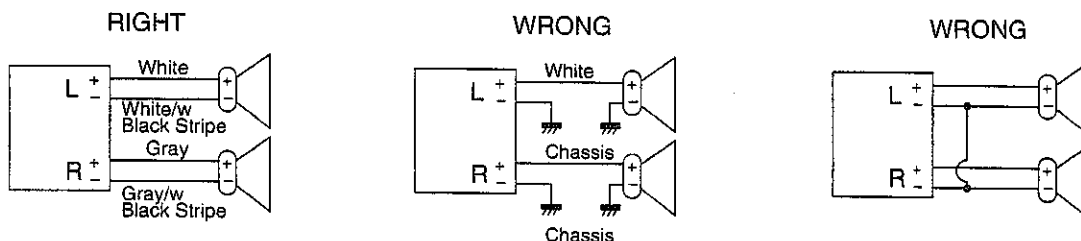
4-SPEAKER SYSTEM



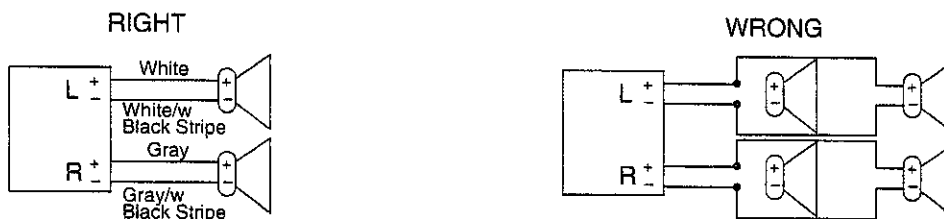
Caution:

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



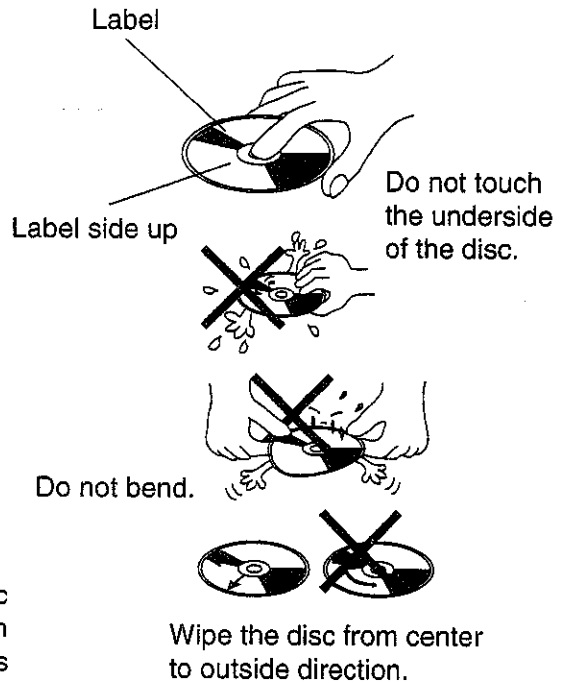
Special Notes

Notes on Compact Discs

USE ONLY DISCS CARRYING THIS LABEL



- Handle discs carefully.
- Keep discs clean.
- Do not scratch or place stickers on discs.
- Do not bend discs.
- Keep discs in their cases when not using them.
- Do not place discs:
 1. In direct sunlight.
 2. In dirty, dusty or damp areas.
 3. Near the vehicle heater.
 4. On the seats or dashboard.

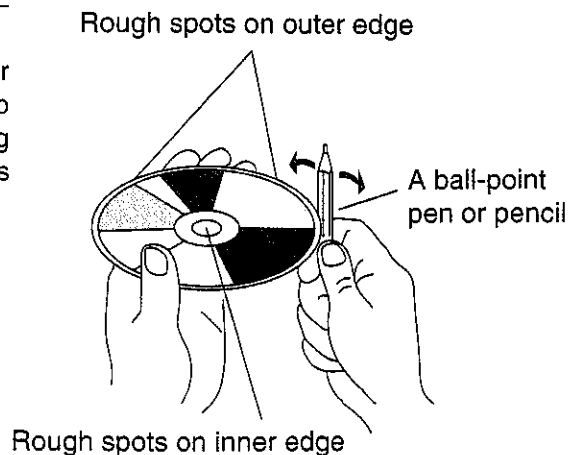


Disc Cleaning

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

A Caution on New Discs

A new disc may have rough spots on its inner and outer edges. These rough edges may cause the CD player to reject the disc. Remove these rough edges by rubbing the inner and outer edges with a pen or pencil as shown at right.



Fuse

Be sure to use a fuse of the specified rating (10A) 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.

Error Display Messages

E1	Displays when the compact disc is dirty or upside down. Selects the next available compact disc.
E2	Displays when compact disc is scratched. Selects the next available compact disc.
E3	Displays when the compact disc stops operating for some reason. Please turn off the car engine (ACC off) and remove the fuse from yellow lead for 1 minute. Then reinstall the fuse.
0000	Displays when there is no disc in the magazine.

Specifications

General

Power Supply:	DC 12 V (11 V - 16 V), Test Voltage 14.4 V, Negative Ground
Tone Action:	Bass, ± 12 dB at 100 Hz, Treble; ± 12 dB at 10 kHz
Current Consumption:	Less than 1.7 A (CD Play Mode)
Maximum Power Output:	30 W \times 4 channels (1,000 Hz)
EIA Power Output:	11 W per channel (1,000 Hz, 1% 4 Ω)
Pre-Amp Output Voltage:	1.4 V (CD Play Mode; 1 kHz 0 dB)
Output Impedance:	600 Ω
Dimensions Main Unit (W \times H \times D):	178(W) \times 50(H) \times 150(D) mm
Weight Main Unit:	1.7kg

AM Radio

Frequency Range:	531 - 1,602 kHz
Usable Sensitivity:	25 dB/ μ V (S/N 20 dB)

FM Stereo Radio

Frequency Range:	87.5 - 108 MHz
Usable Sensitivity:	6dB/ μ V (S/N 30 dB)
Stereo Separation:	42 dB (a+1 kHz)

CD Player

Sampling Frequency:	32 times oversampling
DA Converter:	MASH \cdot 1bit/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 to 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.