

Operating Instructions

操作说明书

[CQ-R595EW]

Removable Face High-Power Logic-Cont. Cassette/Receiver with Voice Recording, DSP and CD Changer Control

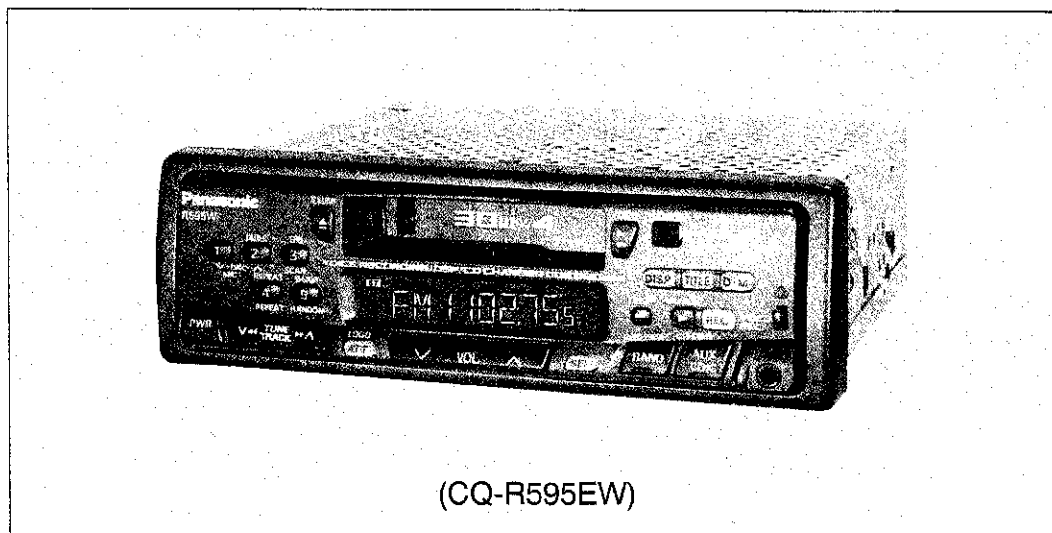
可拆卸面板、高功率、逻辑控制，并附有声音录音及DSP和镭射唱片变换器控制的磁带放音/收音机

[CQ-R575EW]

Removable Face High-Power Logic-Cont. Cassette/Receiver with CD Changer Control

可拆卸面板、高功率、逻辑控制，并附有镭射唱片变换器控制的磁带放音/收音机

CQ-R595/R575EW



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。

Contents

	Page		Page
Precautions.....	2	Remote Control Basics.....	23
Power and Sound Controls.....	4	Anti-Theft System.....	27
Voice Recording (Only for R595EW).....	7	Installation.....	29
Radio Basics.....	8	Electrical Connection.....	33
Cassette Tape Player Basics.....	11	Speaker Connections.....	35
CD Changer Basics.....	15	Fuse.....	37
DSP Operation (Only for R595EW).....	20	Maintenance.....	37
Clock Basics.....	21	Specifications.....	37

Panasonic welcomes you to their constantly growing family of electronic products 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 speakers and tape) 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.

Power Supply

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

Tape Mechanism

Keep magnets, screwdrivers and other metallic objects away from the tape mechanism and tape head.

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.

About Preset Memory

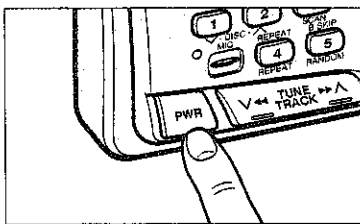
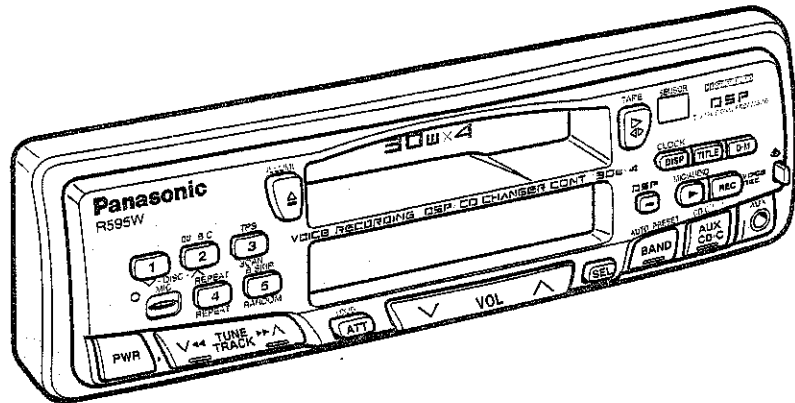
The preset memory is cleared to return to the original factory setting when the power connector or battery is disconnected.

Note:

This operating instruction manual is for two models CQ-R595EW and CQ-R575EW. The differences between these models are mentioned below. All illustrations throughout this manual represent model CQ-R595EW unless otherwise specified.

Model	CQ-R595EW	CQ-R575EW
Operating Controls		
SUB Woofer Out	Yes	None
Illumination Colors	RED/AMBER/GREEN	MILK-WHITE
Voice Recording	Yes	None
Dolby NR System	B/C	B
DSP Control	Yes	None

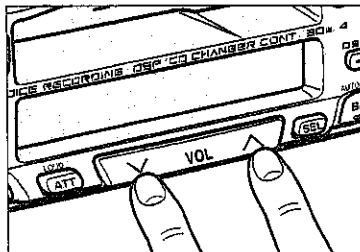
Power and Sound Controls



Power

If the car is not already running, turn the key in the ignition until the accessory indicator lights.

Press PWR button to switch on the power.



Volume

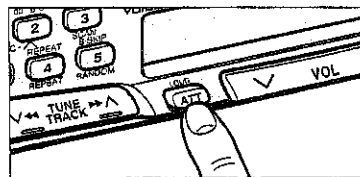
Press "VOL ^" or "∇ VOL" to increase or decrease volume.



Volume Level

0 to 40

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

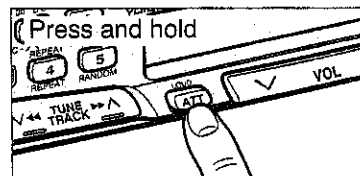


Attenuator

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



(Only for R595EW)





Tone Enhancement

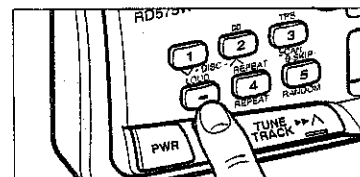
(Only for R595EW)

Press and hold ATT (LOUD) for more than 2 seconds to enhance bass and treble tones when listening at low or medium volume. Press and hold ATT (LOUD) for more than 2 seconds again to deactivate when listening at higher volumes.

(Only for R575EW)

(Only for R575EW)

Press  (LOUD) to enhance bass and treble tones when listening at low or medium volume. Press  (LOUD) to deactivate when listening at higher volumes.

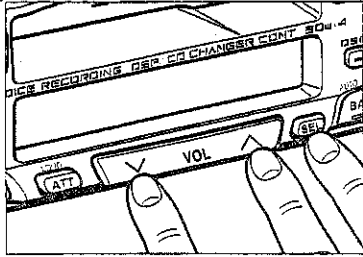


Note: This unit is equipped with anti-volume-blast circuit which serves as an automatic volume level adjuster so that you will not be deafened with sudden loud volume.

This system operates as follows. When PWR is first pressed to switch on, the volume level is low. After that, the volume level gradually returns to its previous level prior the switch is turned off unit.

Anti-volume-blast circuit is not effective when volume level is lower than position 14 at the display.

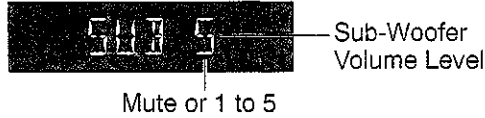
Power and Sound Controls continued



Sub-Woofer Volume

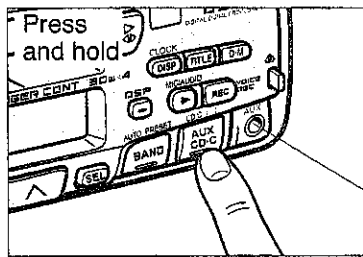
(Only for R595EW)

- Press SEL to select the Sub-Woofer Volume mode. Press "VOL ^" or "VOL V" to increase or decrease the Sub-Woofer Volume.



- Press "VOL V" to mute the Sub-Woofer output at SUB mode. (SUB MUTE)

(Only for R595EW)



Selecting Auxiliary Source

(Only for R595EW)

- 1 Press and hold AUX for more than 2 seconds to select AUX Input mode.

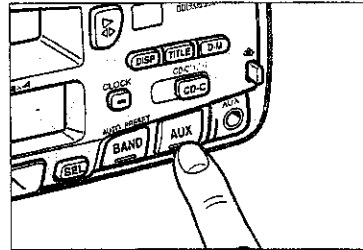
(Only for R575EW)

- 1 Press AUX to select AUX Input mode.



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

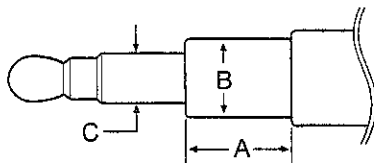
(Only for R575EW)



Canceling AUX Input mode

(To change to another mode)

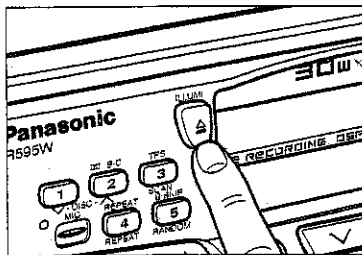
- To Radio mode → Press BAND.
- To Cassette mode → Insert a cassette.
- To CD changer mode → Press CD-C. (when connecting CD changer)



- A - MIN 12 mm LONG
- B - MAX 10 mm DIA.
- C - MIN 3.5 mm DIA.

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.



Changing Illumination Colors

(Only for R595EW)

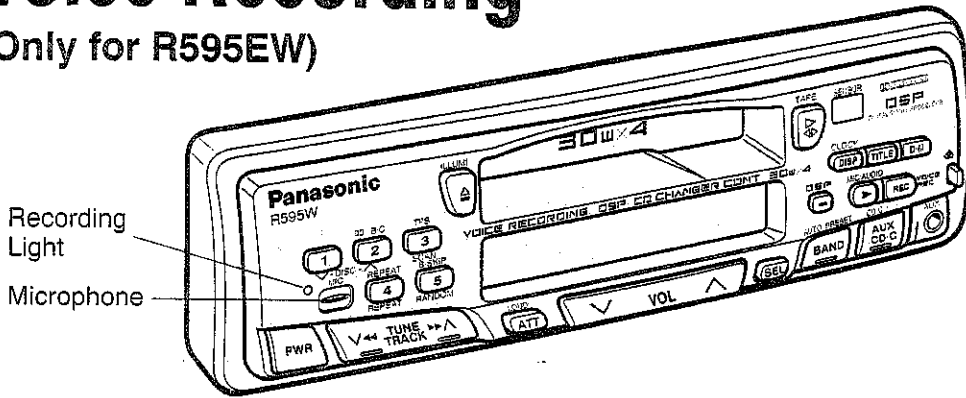
Press and hold ▲ (ILLUMI) for more than 2 seconds to switch the illuminating color in the following order.

Red → Amber → Green



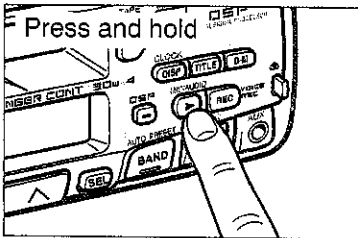
Voice Recording

(Only for R595EW)



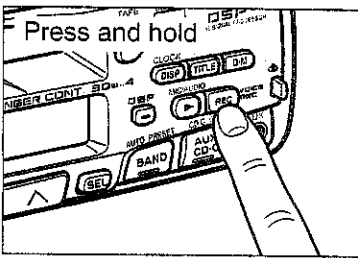
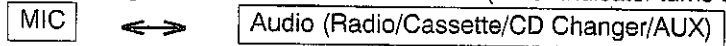
The voice recording function offers record/playback of program from the unit and external source from the built-in microphone for up to 20 seconds. It is mainly used as follows:

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.



Changing Record Mode

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

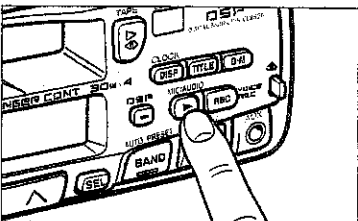


To Record

- 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 (CD, Cassette, Radio, AUX), current program from the unit is recorded.
- When REC is pressed again for more than 2 seconds (before the 20 seconds end), record ends.
- When recording reaches at the end of 20 seconds, the recording light turns off.

Notes

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 and hold REC for more than 2 seconds until the recording light is turned on.
 - ② As soon as the recording light turns on, press and hold REC again for more than 2 seconds until the recording light is turned off.



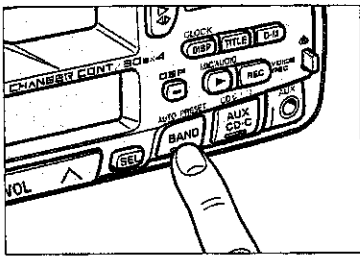
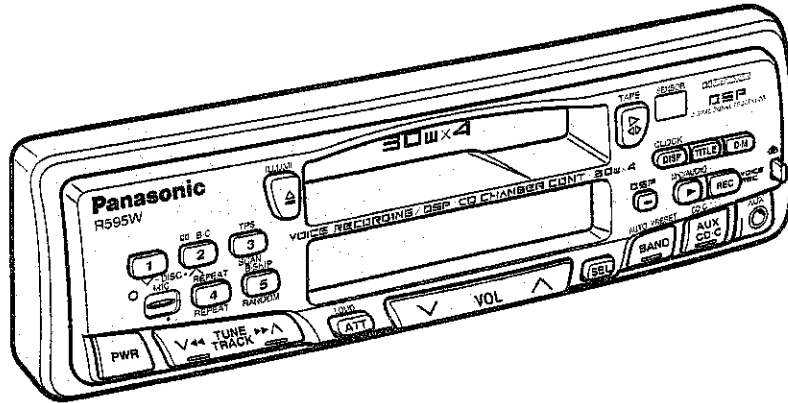
To Play

- Press ► to playback the previous recorded message.
- When playback ends, the previous audio mode is resumed.

CAUTION :

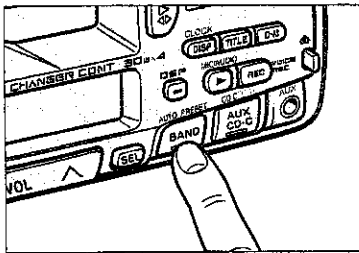
1. Do not make recording while the car in motion.
2. The previous message will be erased, as soon as you press the recording button.
3. Surrounding noise will be recorded, while the recording from microphone.

Radio Basics



To change Tuner Mode

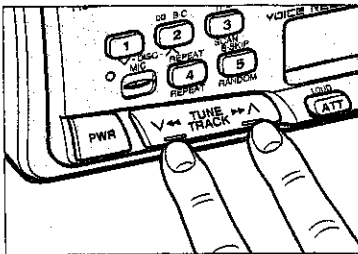
Tuner mode is selected if BAND is pressed in Tape, CD changer and AUX mode.



Selecting a Band

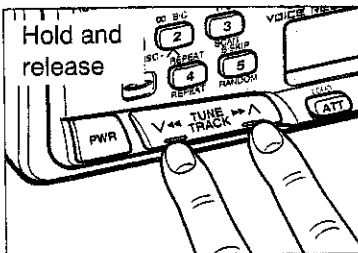
Press BAND to select the bands in the following order.
"ST" indicator lights if the station is broadcasting in stereo.

FM1 → FM2 → FM3 → AM



Manual Tuning

Press "∇ TUNE" or "TUNE ∆" to move to a lower or higher frequency.



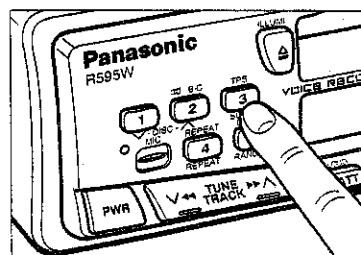
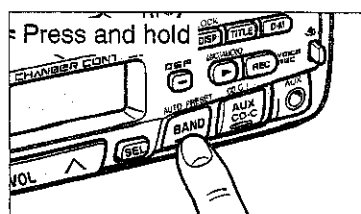
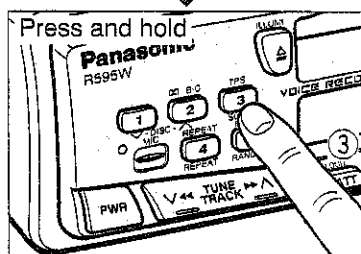
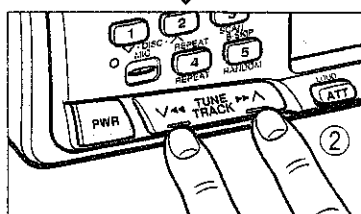
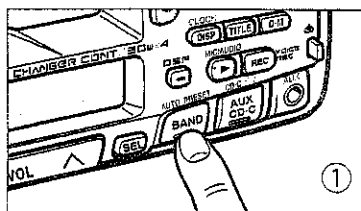
Seek Tuning

Press and hold "∇ TUNE" or "TUNE ∆" for more than a half second, then release. The radio automatically stops on the next station.

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 for more than 2 seconds 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.

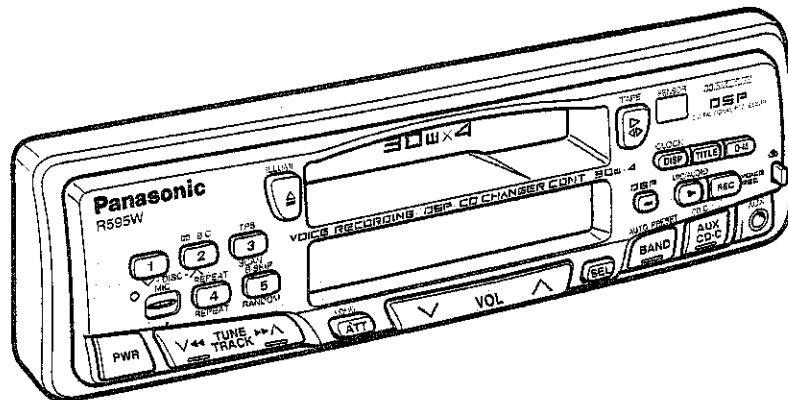
Auto Station Preset

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 on 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.

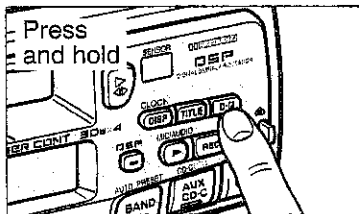
CAUTION: For safety reasons, do not attempt to program while driving.

Radio Basics continued



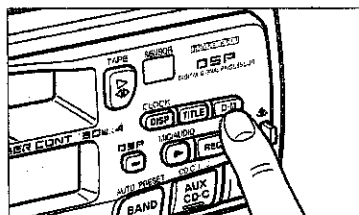
Direct Memory

This set has the direct memory function that calls the preset station and receives it as you simply press the button in any mode. It is convenient when listening to traffic information.



Direct Memory Method

Tune in to a desired station in tuner mode, then press and hold D-M for more than 2 seconds. The frequency indicator blinks, indicating that the station has been preset in the memory.



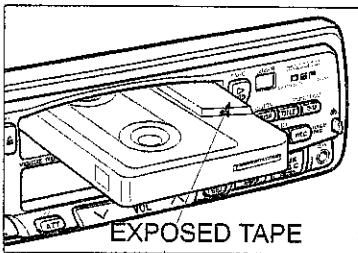
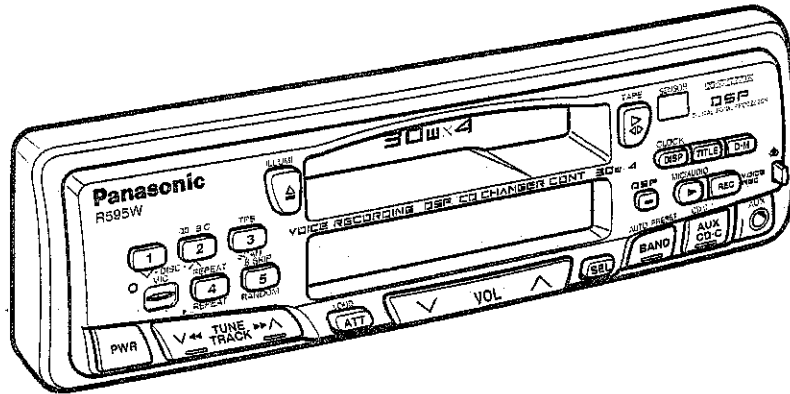
Calling from Direct Memory

- Press D-M. The preset station is called back from the memory to be listened to.
- Press D-M again to return to the previous mode.

Note

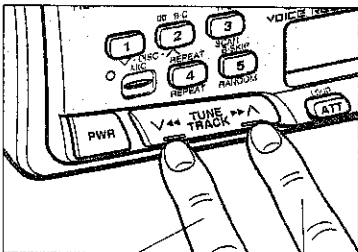
- The preset station can be called back from the memory in any mode.
- Direct mode cannot be changed to any other mode until D-M is pressed again to turn off it.
- FM87.5MHz is originally preset, will be called back when D-M is pressed for the first time.

Cassette Tape Player Basics



Loading a Cassette

Gently insert the cassette with the exposed tape facing to the right until the mechanism captures it, and playback starts.

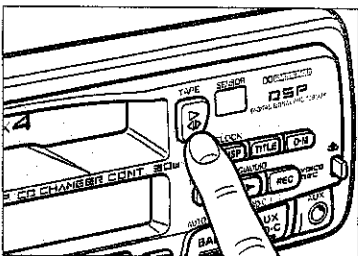


Rewind and Fast Forward

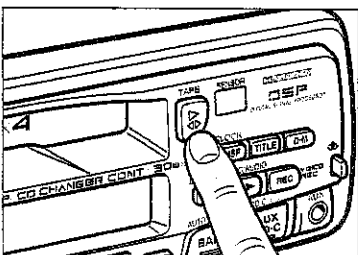
Press either ◀◀ (REW) to rewind or ▶▶ (FF) to fast forward the tape.



REWIND FAST FORWARD



To stop rewind or fast forward, press ▶ (TPE).
If you rewind the tape fully, it will play on the same program side again.
If you fast forward to the end, play will resume from the beginning of other side of the tape.



Changing Sides

Press ▶ (TPE) to switch to the program on the other side of the tape.

The display changes to indicate which program is playing.

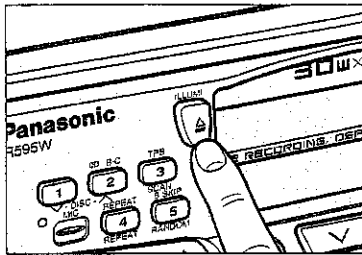


TOP SIDE PLAYING




BOTTOM SIDE PLAYING

Cassette Tape Player Basics continued



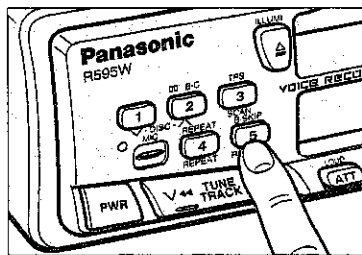
Stopping and Ejecting the Tape

Once inserted into the unit, your tape will play continuously until you eject it.

If you press and engage , the unit clears the tape and returns to the previous mode.

When you shut off the car engine, the tape will stop but not eject.

Notes: Always remove the cassette when you are done using the cassette player. This will prolong the life of your tape.



Blank Skip

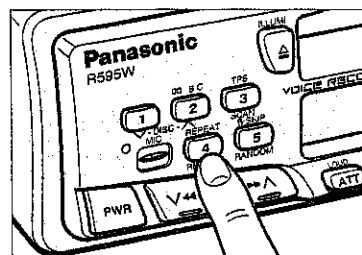
Press 5 (B • SKIP) to skip long, unrecorded portions on the tape.

B-SKIP

This is most convenient if you quickly want to skip the remaining unrecorded portions at the end of the tape and go fast forward to the beginning of the first music on the reverse side of the tape.

Notes:

- "B • SKIP" indicator lights. However, the blank skip operation will not work if REPEAT is on. The repeat function has priority over that of the blank skip function.
- Also the blank skip operation will not work when the unrecorded portions of the tape is less than 15 seconds.



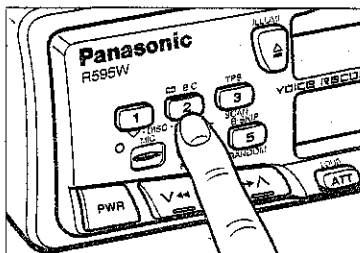
Repeat Play

Press 4 (REPEAT) to repeat the same music you are now listening to.

REPEAT

After finishing the music just listened to, the rewind starts automatically until the beginning of music, and the same music starts playing again. To turn it off, press 4 (REPEAT) again.

(Only for R595EW)



Dolby Noise Reduction

(Only for R595EW)

Press 2 (DDB•C) once to set the Dolby B NR mode.



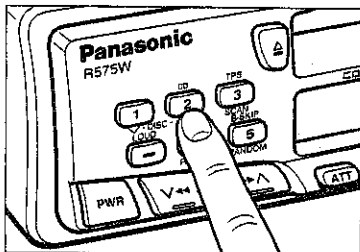
Press 2 again to set the Dolby C NR mode.



To cancel the Dolby NR mode, press 2 again.

Note: Set the Dolby B NR mode when playback a tape recorded with Dolby B Noise Reduction, and the Dolby C NR mode when listening to with Dolby C NR.

(Only for R575EW)



(Only for R575EW)

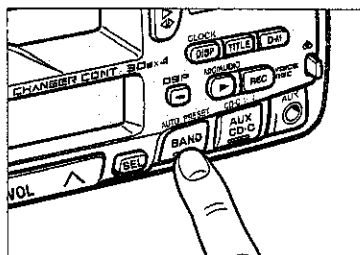
Press 2 (DB) to set the Dolby B NR mode.



To cancel the Dolby NR mode, press the button again. Set the Dolby B NR mode when playback a tape recorded with Dolby B Noise Reduction.

Auto Metal Function

This unit will detect metal and high-position tape mode automatically.

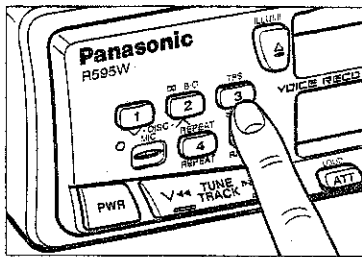


To change to the tuner mode

Press BAND to change the mode from tape to tuner operation. The tape playback will stop and the radio can be heard.

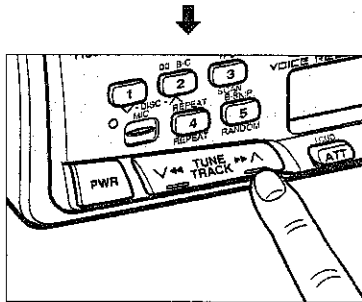
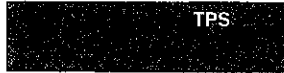
Note: If you want to listen to the tape again, press (TAPE).

Cassette Tape Player Basics continued

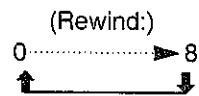
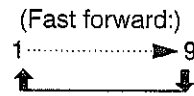


TPS Operation (Tape Program Search)

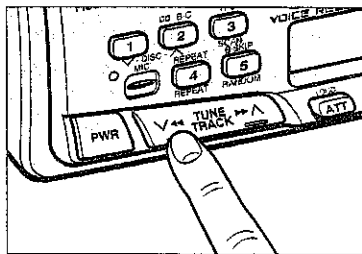
- Press 3 (TPS) to activate the tape program search mode.



- From the current selection, decide which program you want to select. Now, press "▶▶" several times forward (up to 9 programs) or press "◀◀" several times backward (up to 8) to select the corresponding program number.



or



- EX1. To select the current program again, press 3 (TPS), and press "◀◀" once.



- EX2. To select the 1st program backward of the current selection, press 3 (TPS) once, and press "◀◀" two times.



- EX3. To select the next program, press 3 (TPS) and press "▶▶" once.



- EX4. To select the 3rd program forward of the current selection, press 3 (TPS) once, and press "▶▶" three times.



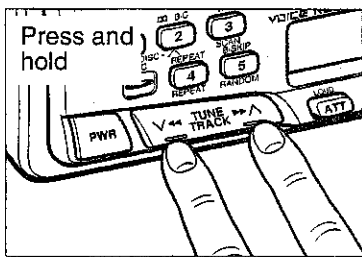
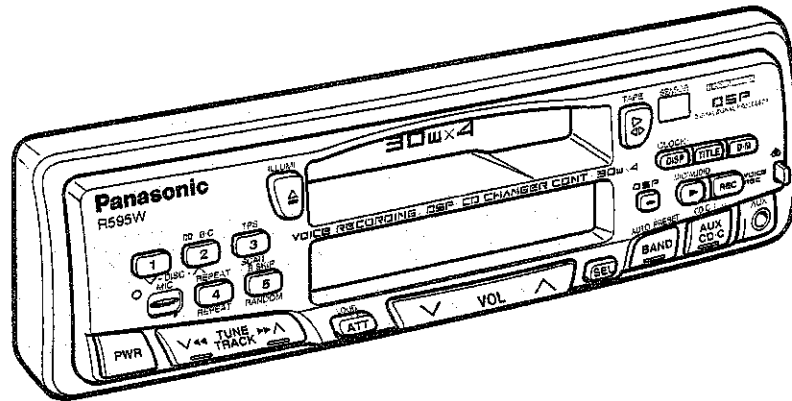
- To turn it off, press 3 (TPS) again.

Note:

The TPS mode may not work correctly in the following cases. This, however, does not mean that the unit is defective.

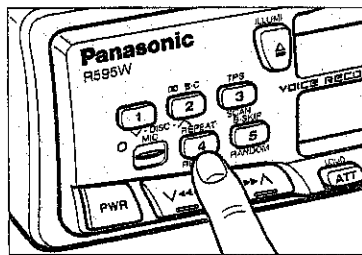
- There is an interval less than 4 seconds or having a high level of noise or hum between programs.
- There is a particularly low-level passage during the program.

CD Changer Basics continued



Searching a Track

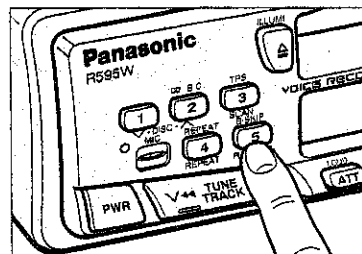
Press and hold "TRACK▶▶" or "◀◀TRACK" for more than a half second to activate fast forward or reverse through a track. Release "TRACK▶▶" or "◀◀TRACK" to resume the normal CD play from that position.



Repeating a Track

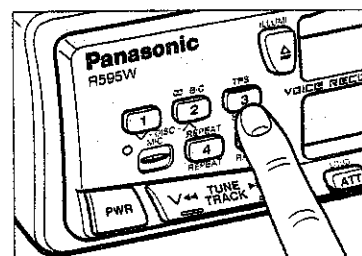
Press 4 (REPEAT) to repeat the current selection. "REPEAT" indicator lights.

The current selection continues to repeat until you press 4 (REPEAT) again.



Random Selection

Press 5 (RANDOM). "RANDOM" indicator lights. A random selection of music is played from all available CDs. To turn it off, press 5 (RANDOM) again.

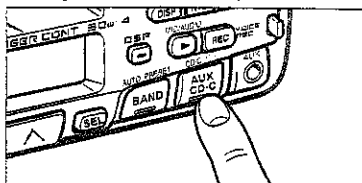


Scanning Tracks

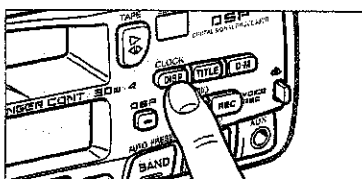
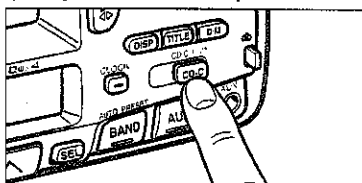
Press 3 (SCAN). The display blinks and the first 10 seconds of each track on the discs play in sequence.

To stop scanning and continue with the current track, press 3 (SCAN) again.

(Only for R595EW)



(Only for R575EW)



Twin Changer Selection

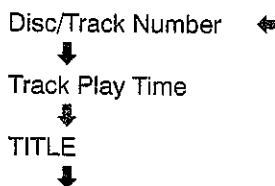
Using the adaptor (CA-CD55EN, optional item) which is capable of connecting two changers, will make possible to control these two changers.

- ① When CD-C is pressed in the CD mode, a selection is made from the currently played (CD1 or CD2) changer to the other changer.
- ② If either one is not connected or if the magazine is not loaded, a selection is made to the other CD changer.



Changing the Display

Press DISP to switch the display in sequence as follows.



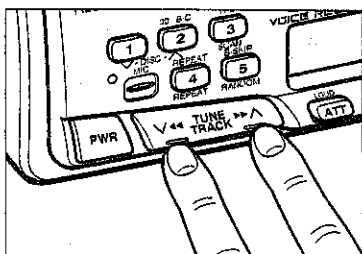
Note:

The title is not displayed when connecting CX-DP15EN.

Note: To change to the Radio mode, press BAND.

<Title Input Feature>

This feature enables you to input up to 8 characters title, such as CD artist, title song, etc. into the unit's memory. The title will automatically display when the CD is played next time until the change is made.

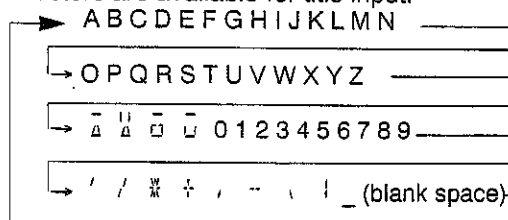


For Input characters

- A character can be input to a space where the “_” is blinking on the display.



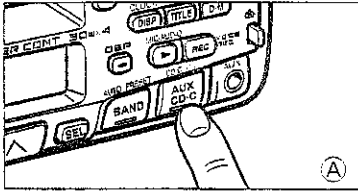
- The following characters are available for title input.



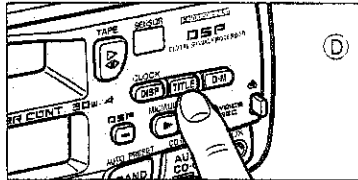
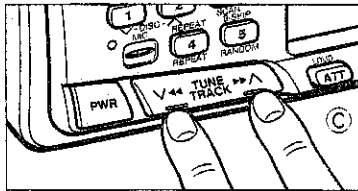
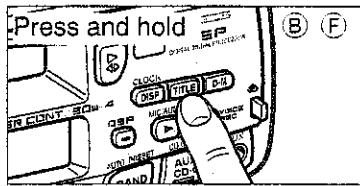
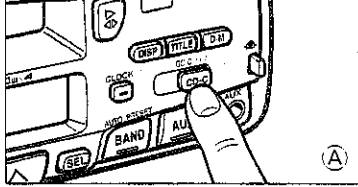
Press “▶▶ ^” or “∨◀◀” to select a character in ascending or descending order.

CD Changer Basics continued

(Only for R595EW)



(Only for R575EW)



CD Title Input

One title for each disc can be input and stored in memory for a total of 12 discs.

(A) Press CD-C to CD changer mode. Play a disc for the title input.

(B) Press and hold TITLE for more than 2 seconds to switch to the title input mode. " _ _ _ _ _ " is displayed, and the 1st " _ " blinks.



(C) Press "▶▶ ^" or "∨◀◀" to select a desired character.

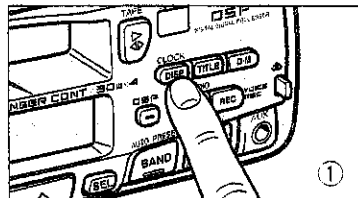
(D) Press TITLE for next character selection. The next " _ " starts to blink.

(E) Repeat (C) and (D) for the remaining characters of the title.

(F) When all characters are selected, press and hold TITLE for more than 2 seconds until the display blinks to store the title in memory. The unit returns to the title display mode, and the title will remain on display.



CAUTION: For safety reasons, never attempt to input the title while driving.



Title Display

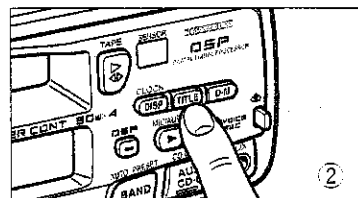
The titled CD can be recalled by its title and played during the CD normal play.

(1) Press DISP to switch the title mode for the currently playing disc in the following order.

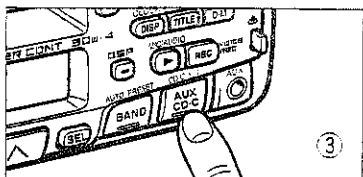
Disc/Track Number → Track Play Time → Title Mode



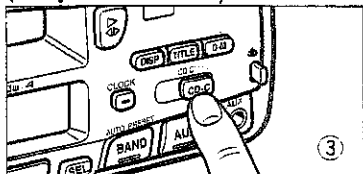
(2) Press TITLE to recall other titles of the disc currently set in the magazine.



(Only for R595EW)



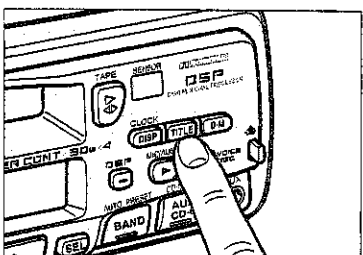
(Only for R575EW)



③ Press CD·C to start the titled CD play shown on the display.



- To return the display to the CD normal play, press DISP.
- When you've selected the TITLE mode but made no choice within 5 seconds, the CD normal play mode will be automatically selected.



Removing the Title

When 12 titles have already been stored in the memory, the memory is full. You must remove the old title to make room for the new one by following the procedure below.



① Press TITLE for more than 2 seconds. The display changes as shown below.

"TITLE" (for 1 second)



"FULL" (blinks for 3 seconds)



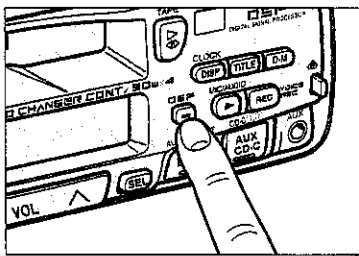
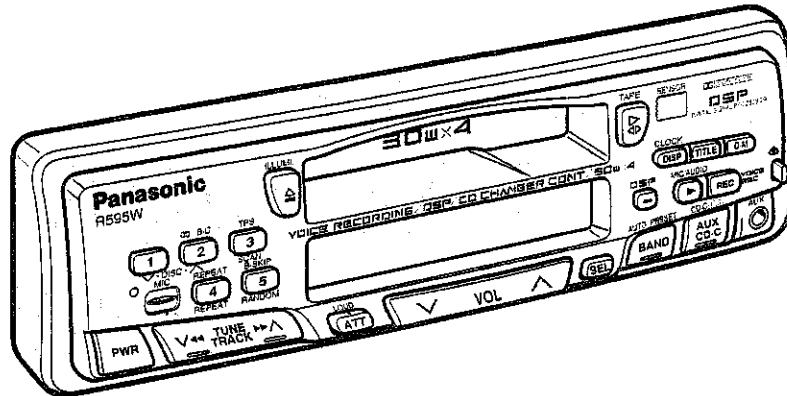
"1st title"

- ② Press TITLE each time to find a title you want to replace.
- ③ When you find the title, press TITLE for more than 2 seconds for cancellation.
- ④ Change the title by repeating the CD Title Input procedure ① through ⑤ on page 18.

Error Display Messages

	<p>Displays when the compact disc is dirty or upside down. Selects the next available compact disc.</p>
	<p>Displays when compact disc is scratched. Selects next available compact disc.</p>
	<p>Displays when the unit stops operating for some reason. Press RESET on the CD Changer (optional).</p>
	<p>Displays when there is no disc in the magazine.</p>

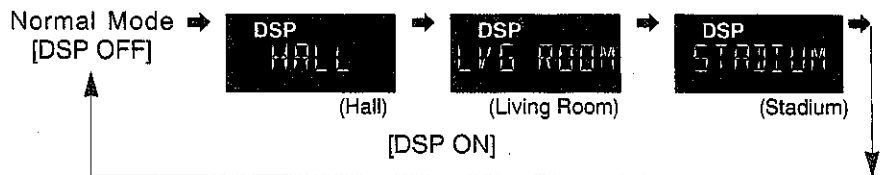
DSP Operation (Only for R595EW)



DSP Operation

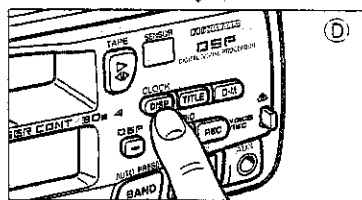
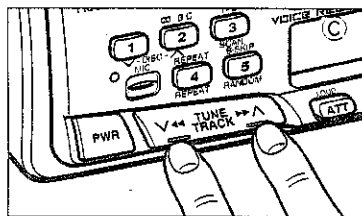
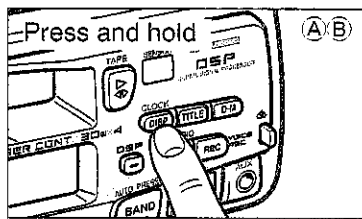
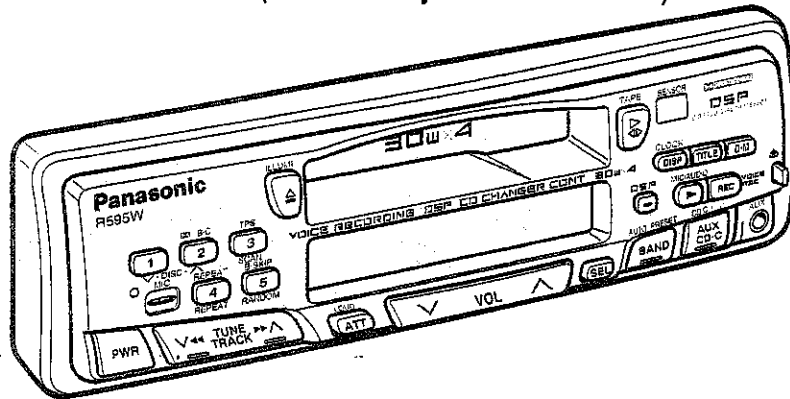
For full appreciation of rock music, this unit applies DSP circuitry with customized equalization.

Each time DSP is pressed, the DSP mode will change in the following order. The corresponding DSP mode indicator will be illuminated.



Note: DSP effect is activated only through the rear speakers.

Clock Basics (The clock system is 12-hours)



Initial Time Setting

(Only for R595EW)

- Ⓐ Press and hold DISP (CLOCK) for more than 2 seconds. "AdJ" is displayed.
- Ⓑ Press and hold DISP (CLOCK) again for more than 2 seconds. "AdJ" blinks indicating the time setting mode is activated.



- Ⓒ To set hours, press "∇ TUNE".

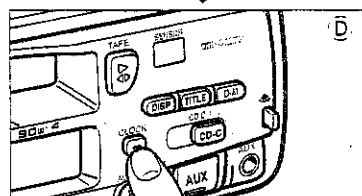
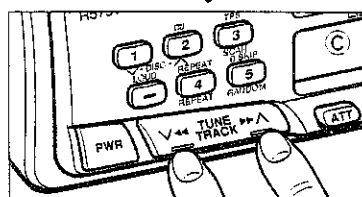
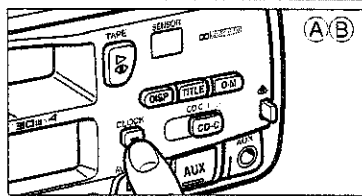


To set minutes, press "TUNE ^".



Hold "^" or "∇" to change numbers rapidly.

- Ⓓ When you have set the time, press DISP (CLOCK).



(Only for R575EW)

- Ⓐ Press CLOCK. "AdJ" is displayed.
- Ⓑ Press and hold CLOCK for more than 2 seconds again. "AdJ" blinks indicating the time setting mode is activated.



- Ⓒ To set hours, press "∇ TUNE".



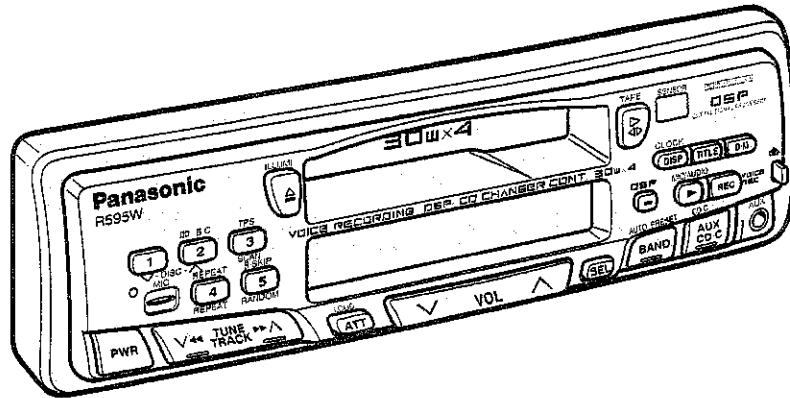
To set minutes, press "TUNE ^".



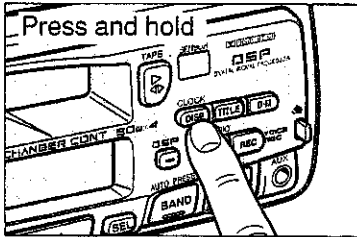
Hold "^" or "∇" to change numbers rapidly.

- Ⓓ When you have set the time, press CLOCK.

Clock Basics continued



(Only for R595EW)

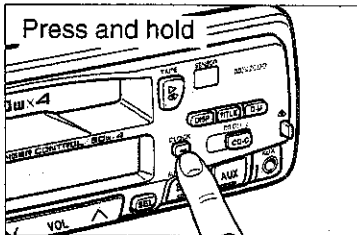


Resetting the Time

(Only for R595EW)

When you want to reset the time, press and hold DISP (CLOCK) 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 on page 21.

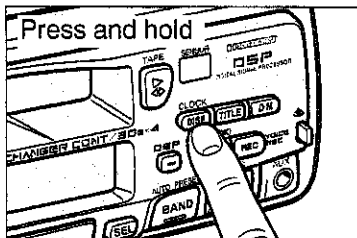
(Only for R575EW)



(Only for R575EW)

When you want to reset the time, press and hold CLOCK for more than 2 seconds to activate the time setting mode. On the time display, repeat step ③ and ④ on page 21.

(Only for R595EW)

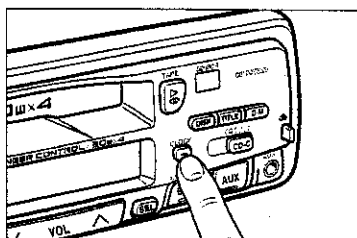


Selecting the Clock Display

(Only for R595EW)

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

(Only for R575EW)



(Only for R575EW)

Press CLOCK for clock display.
Press CLOCK once again, the current audio display mode resumes.

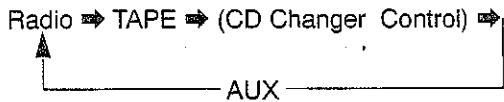
Remote Control Basics continued

Radio

To Change Radio Mode

⑥ MODE (Mode Button)

Press MODE to select Radio Mode.



Manual Tuning

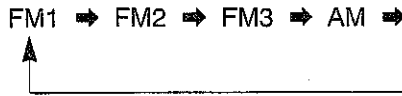
③ ∇ TUNE ^ (Manual Tuning Button)

Press "∇ TUNE" or "TUNE ^" to move to a lower or higher frequency.

Selecting a Band

④ BAND (BAND Button)

Press BAND to select the band in sequence.



Seek Tuning

③ ∇ TUNE ^ (Seek Tuning Button)

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

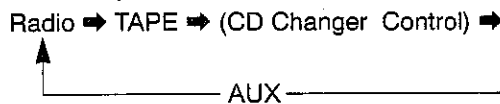
Cassette Tape Player

(When a cassette is inserted, playback starts.)

To Start Cassette Tape Play

⑥ MODE (Mode Button)

Only when a cassette tape is inserted, press to select TAPE play mode, and playback starts automatically.



Rewind and Fast Forward

③ ◀◀ TRACK ▶▶ (Rewind/Fast Forward Button)

Press "◀◀" or "▶▶" to rewind or Fast Forward the tape.

④ PRG (Stop Button)

Press PRG to stop rewind or fast forward.

Changing Side

④ PRG (Program Change Button)

Press PRG to switch to the program on the other side of tape.

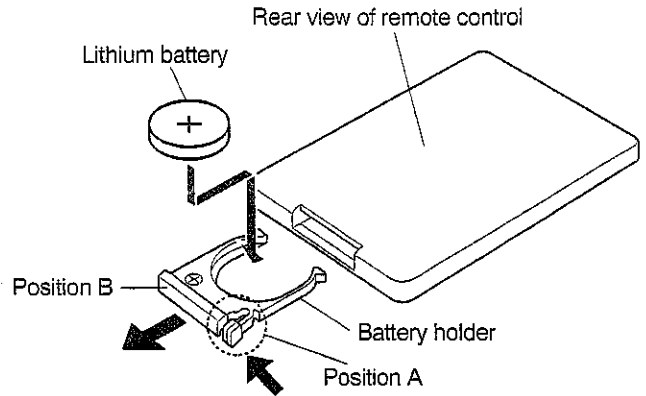
When playing the top side, "▲" indicator lights.

When playing the bottom side, "▼" indicator lights.

Remote Control Basics continued

Battery Replacement:

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 (+)side up as illustrated.
3. **Insert the battery holder.**
Push in the holder to the original position.



Note 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.

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 the release button (). The removable face plate will be released.

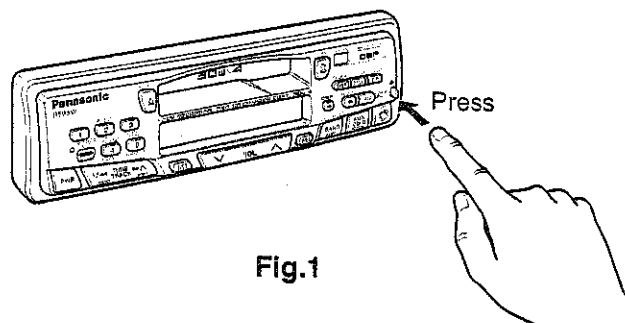


Fig.1

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

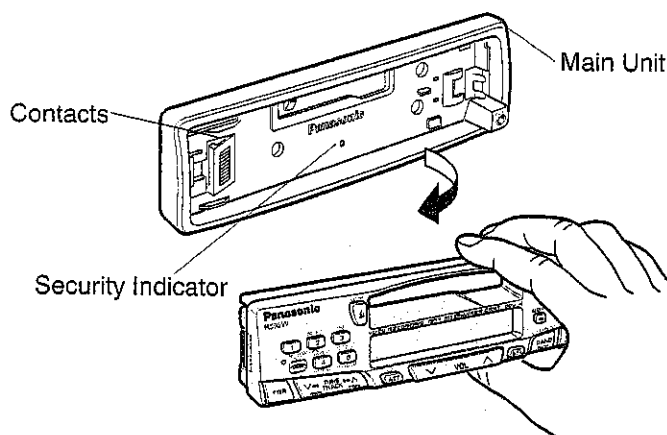


Fig.2

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 then reset 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. "ALARM 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.

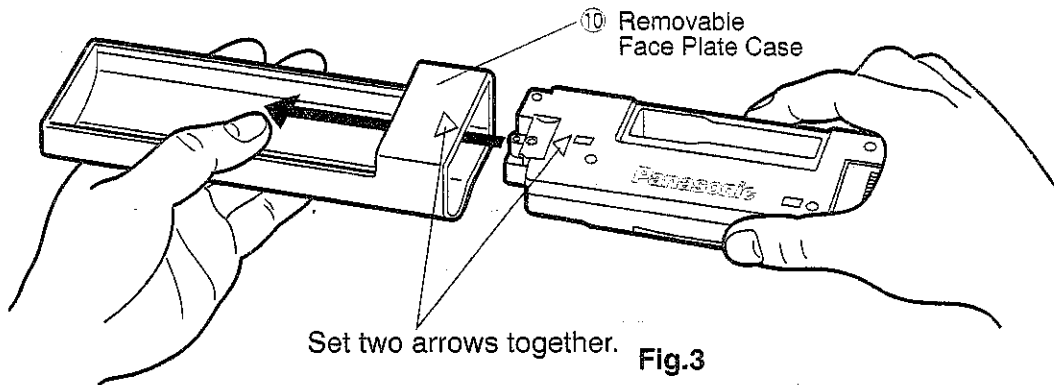
Display	Security Indicator	Warning Alarm
	Blinks	ON
↑↓ (Press SEL for more than 4 seconds.)		
	OFF	OFF

Caution:

1. Warning Alarm may not operate if the exclusive supplied mounting collar is not used. This mounting collar will set off the alarm when the unit is being removed.
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.

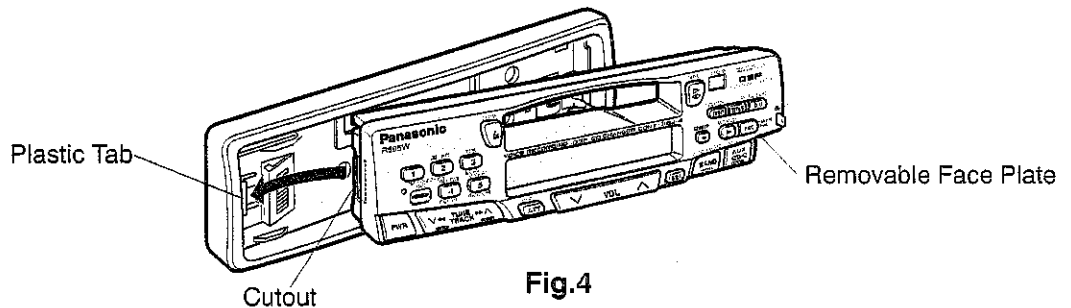
Anti-Theft System continued

- 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 safely.

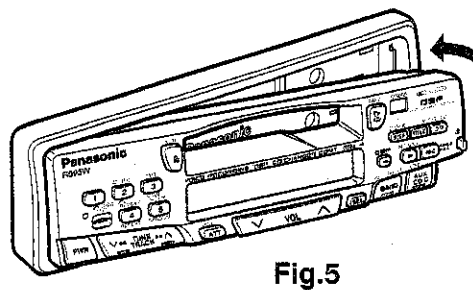


To Install the Removable Face Plate

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



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



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.

Installation

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 computers, 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.

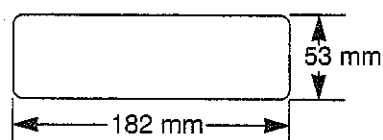


Fig. 1

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 pages 33, 34 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 or 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	Q'ty
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

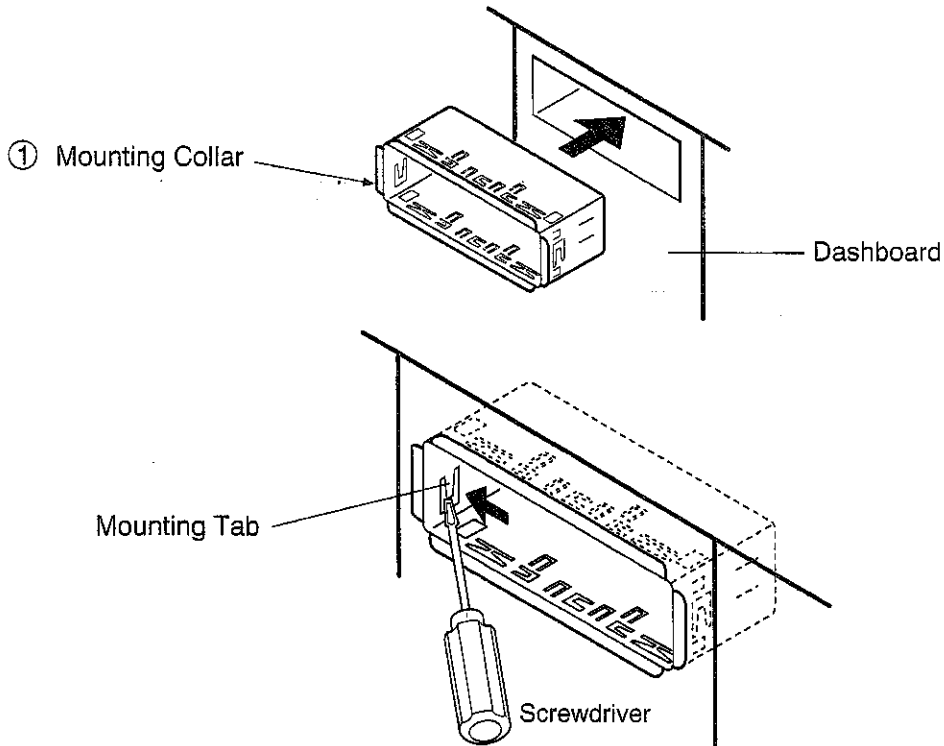
No.	Item	Diagram	Q'ty
⑥	Hex. Bolt (5 mmφ x 25 mm)		1
⑦	Toothed Lock Washer (5 mmφ)		1
⑧	Mounting Bolt (5 mmφ)		1
⑨	Power Connector		1
⑩	Removable Face Plate Case		1

Installation continued

Installation Procedures

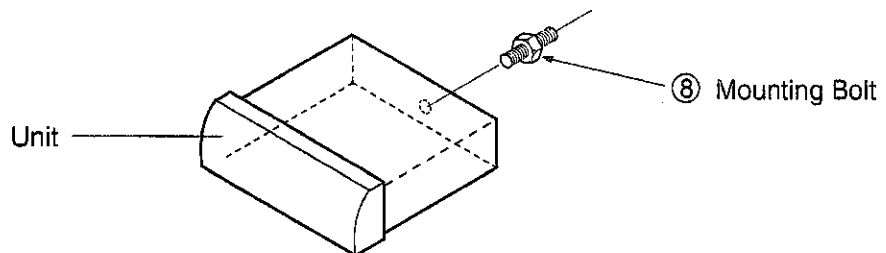
1. Secure the Mounting Collar ①.

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

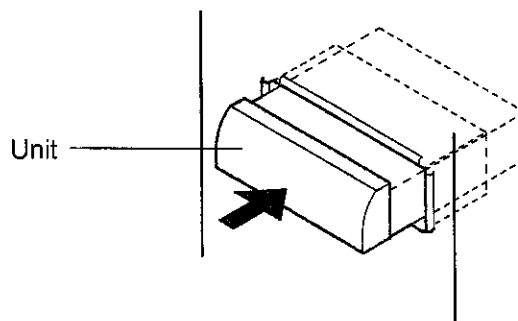


2. Secure the rear of the unit.

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



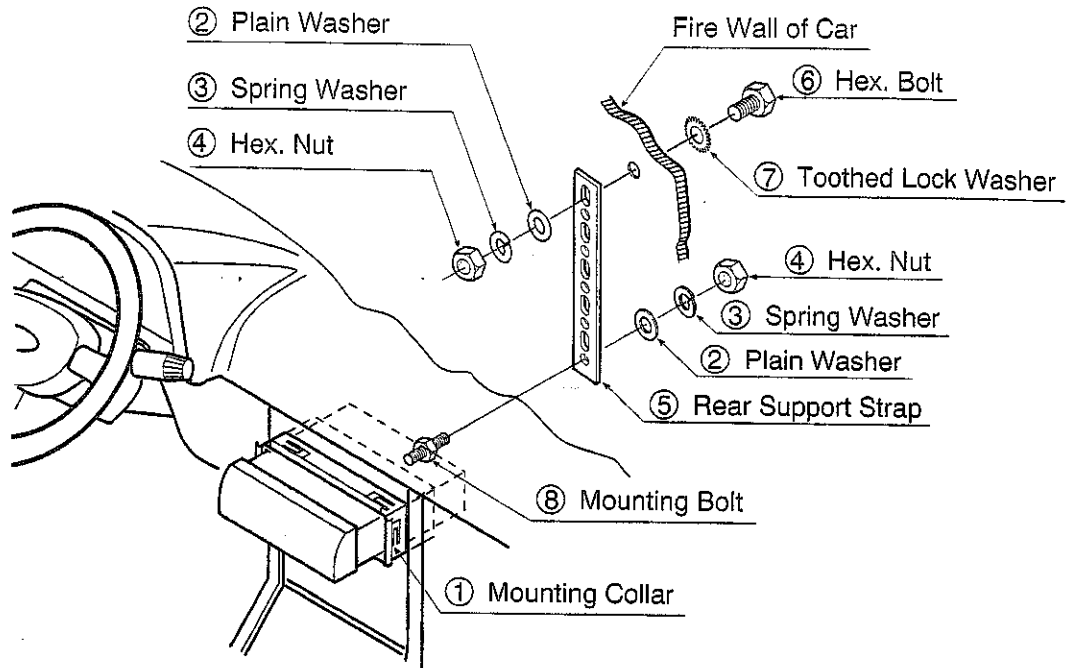
- c) Insert the unit into Mounting Collar ① and push it in until "click" is heard.



- 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**

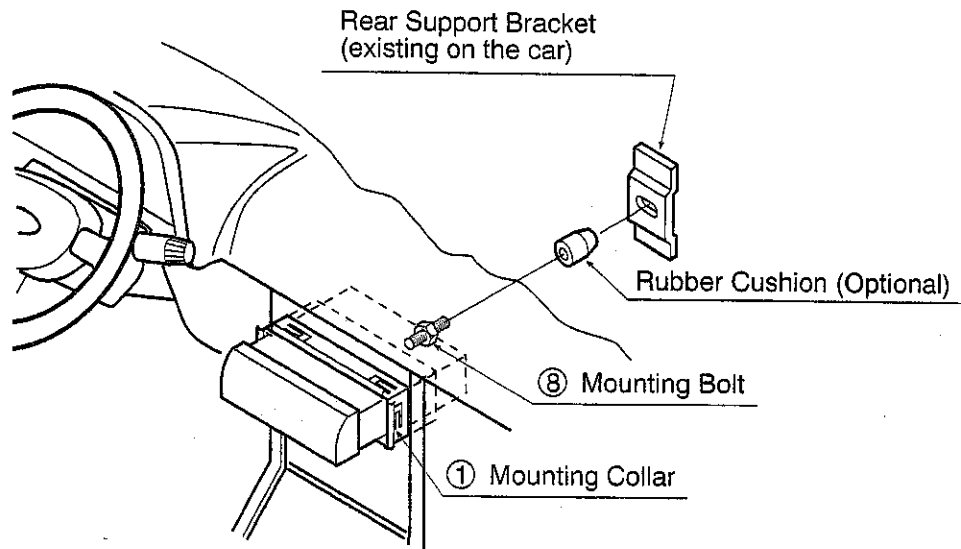
Affix one end of the Rear Support Strap ⑤ to the rear of the unit, and the other end to the Fire Wall of Car, or some other metallic area.



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

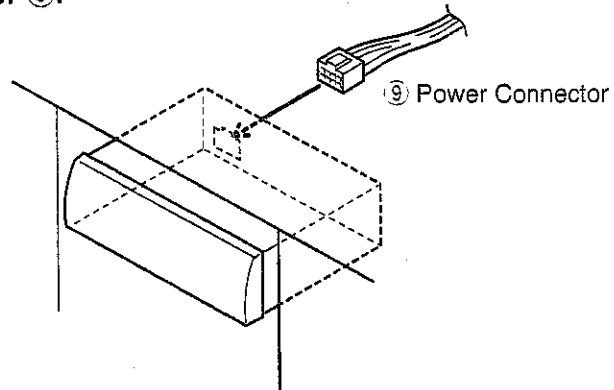
(If there is an existing Rear Support Bracket on the Fire Wall of Car.)

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



Installation continued

3. Plug the Power Connector ⑨.

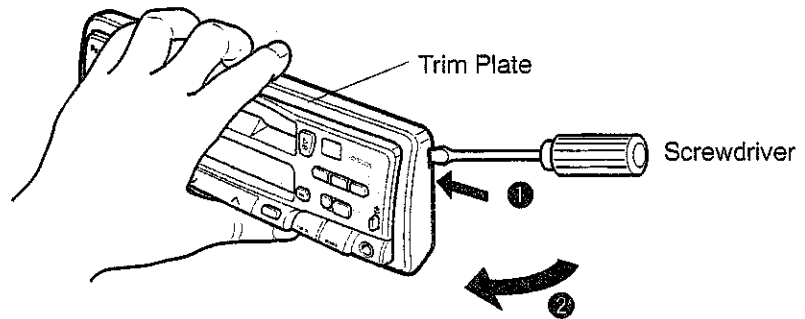


4. After installation reconnect the negative (-) battery terminal.

To Remove the Unit

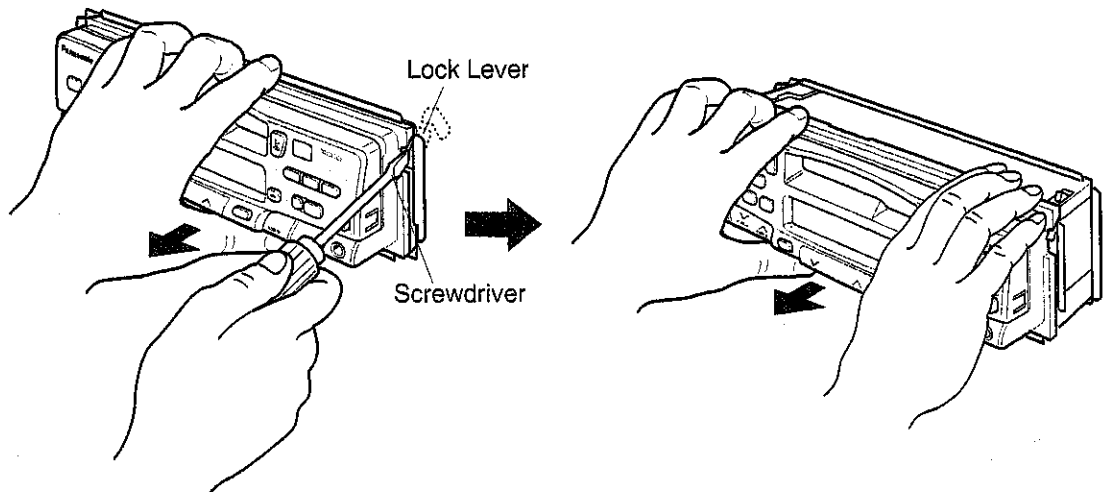
When removing or installing the unit, make sure that it is in the ALARM OFF mode. (See page 27.)

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



b) Pull out the unit while pushing the lock lever using a screwdriver.

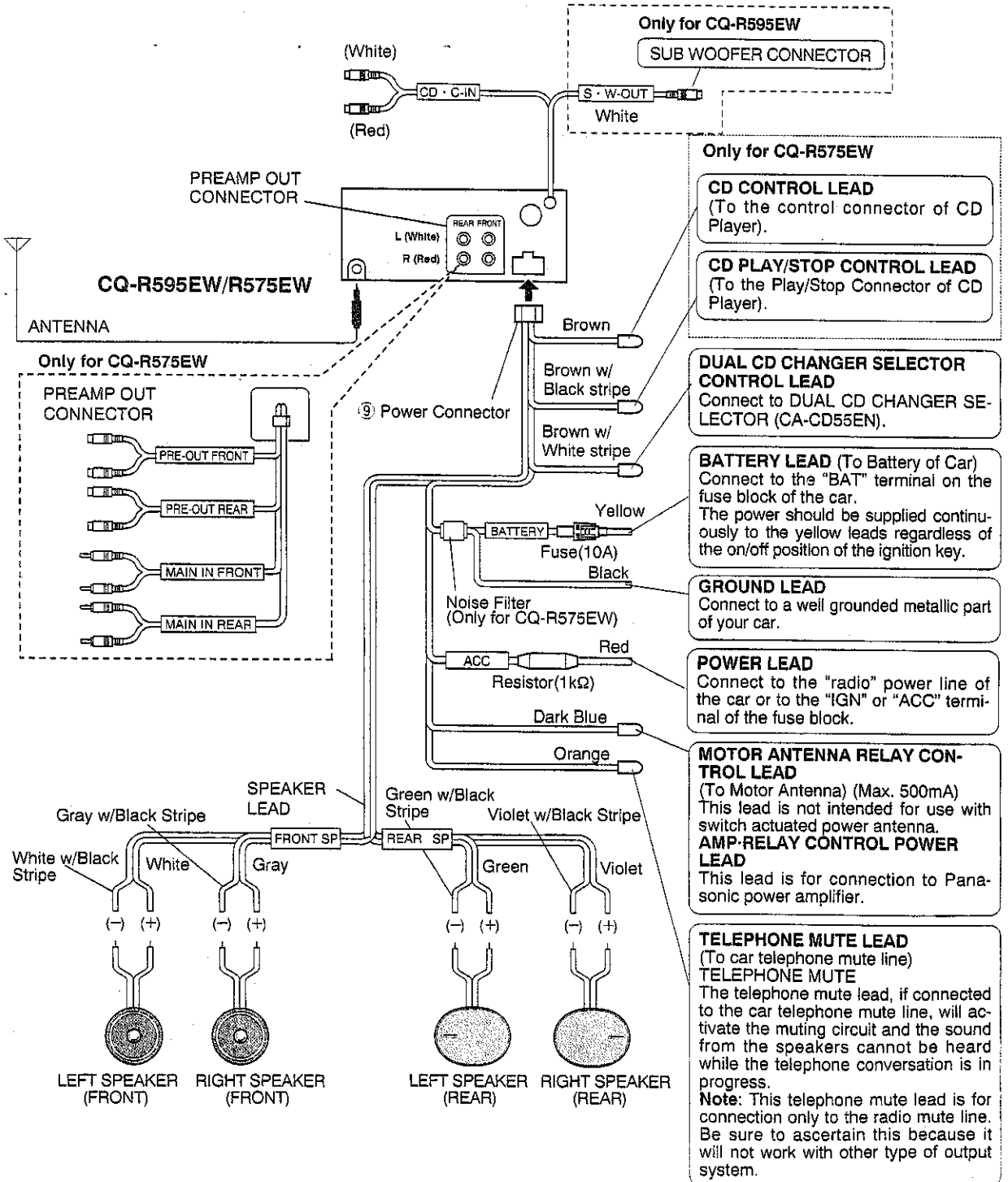
c) Remove the unit pulling with both hands.



Electrical Connection

Caution:

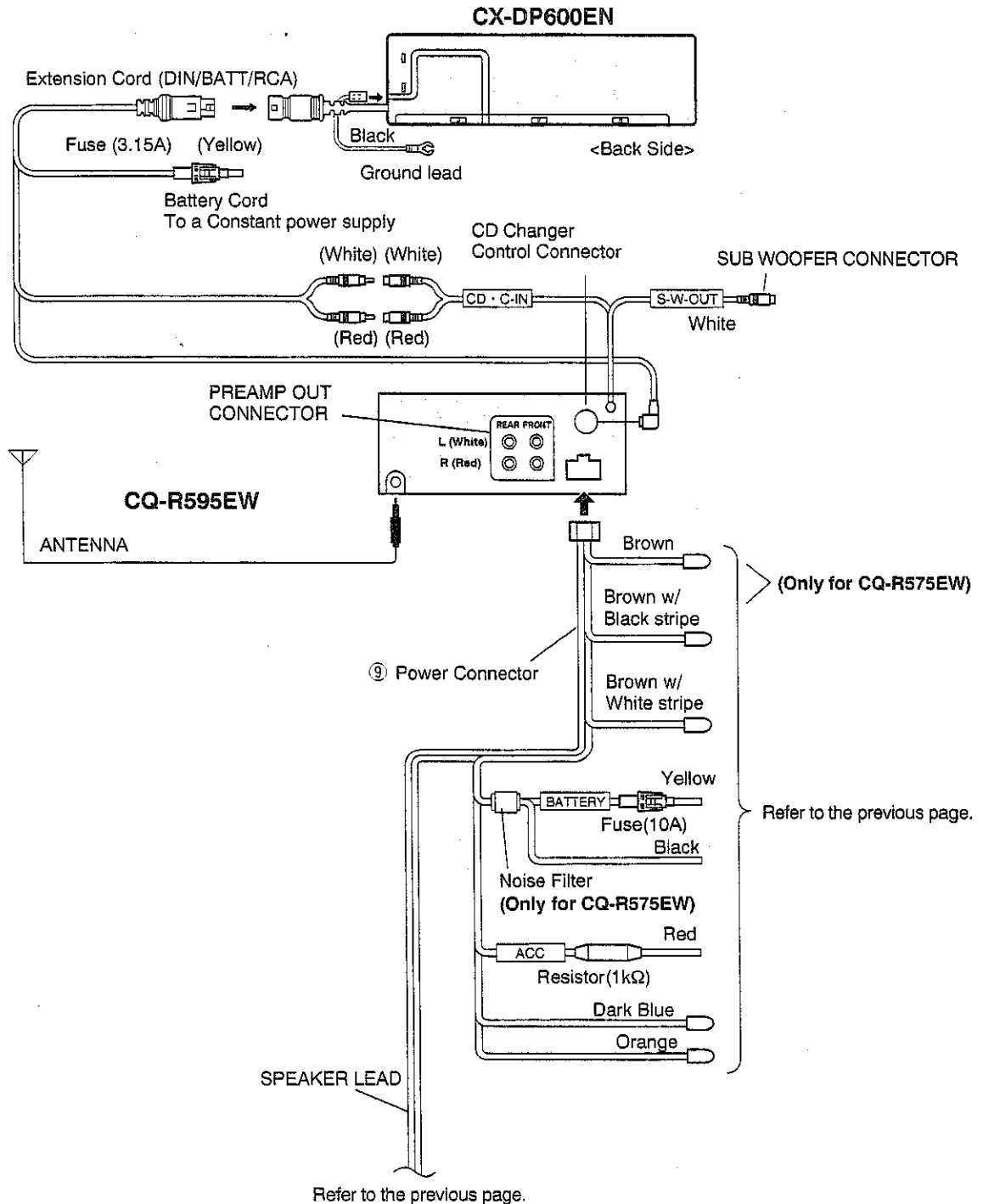
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove the covering of the leads about 5 mm long from their end before connecting.
- Do not insert the power connector into the unit until the wiring is completed.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.



Electrical Connection continued

- This unit can be connected to an optional CD changer (CX-DP15EN, CX-DP600EN or CX-DP1200EN). For details consult your nearest authorized Panasonic Dealer.
- For connection to a CD changer, refer to the operating instructions of the CD changer (CX-DP15EN, CX-DP600EN or CX-DP1200EN).

<in combination with CX-DP600EN>

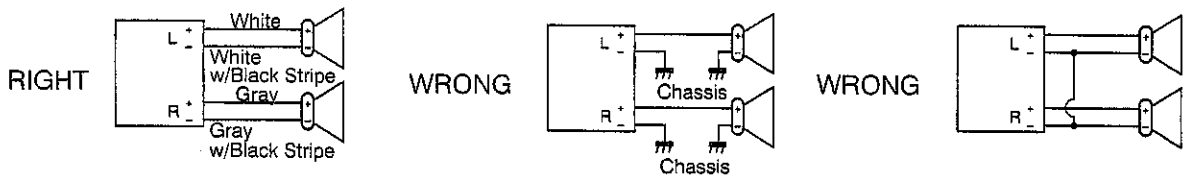


Speaker Connections

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.

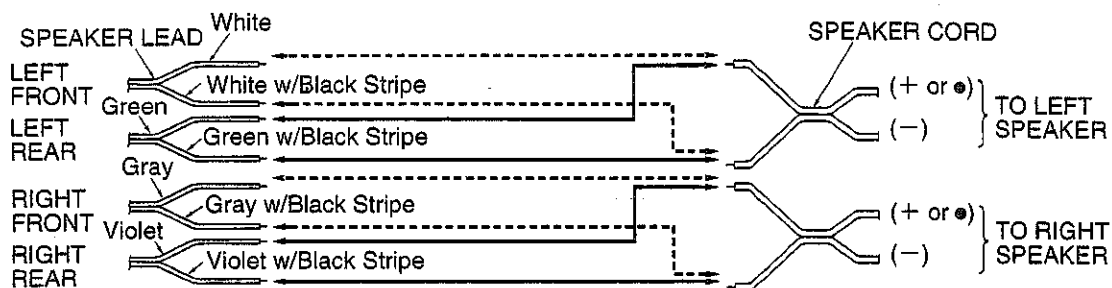


Speaker Connections continued

2-SPEAKER SYSTEM

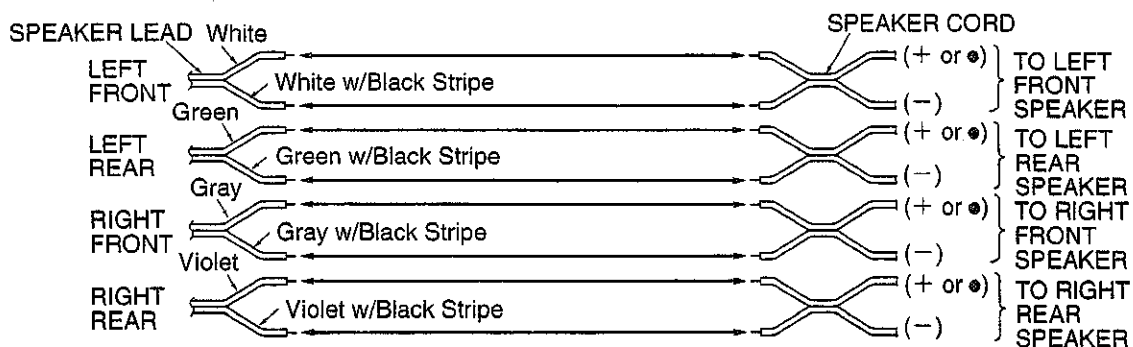
Use only front or rear speaker leads. Do not connect both (Front and Rear) together.

- 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



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.

Specifications

General

Power Supply	: DC 12V (11V - 16V), Test Voltage 14.4V, Negative Ground
Tone Controls	: Bass; ± 12dB at 100Hz Treble; ± 12dB at 10kHz
Current Consumption	: Less than 2.5A (Tape mode, 0.5W 4-Speaker)
Maximum Power Output	: 30W x 4 (at 4Ω)
Power Output	: 15W x 4 (DIN45 324, at 4Ω)
Speaker Impedance	: 4 - 8Ω
Dimensions (Main unit)	: 178(W) x 50(H) x 150(D) mm
Weight (Main unit)	: 1.5 kg

FM Stereo Radio

Frequency Range	: 87.5 - 108MHz
Usable Sensitivity	: 6dB/μV(S/N 30dB)
Stereo Separation	: 35 dB(at 1kHz)

AM Radio


Frequency Range	: 531 - 1,602kHz
Usable Sensitivity	: 26dB/μV (S/N 20dB)

Cassette Player

Reproduction System	: 4-track, 2-program stereo
Tape Speed	: 4.76cm/sec.
FF/REW Time	: Less than 110 sec. (C-60)
Frequency Response	: 30 - 17,000Hz (Normal) 30 - 18,000Hz (Metal)
Wow and Flutter	: 0.12% (WRMS)
Signal to Noise Ratio	: 52dB (Dolby B NR on; 62dB, Dolby C NR on; 72dB) (CQ-R595EW) 52dB (Dolby B NR on; 62dB) (CQ-R575EW)

Note:

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

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.