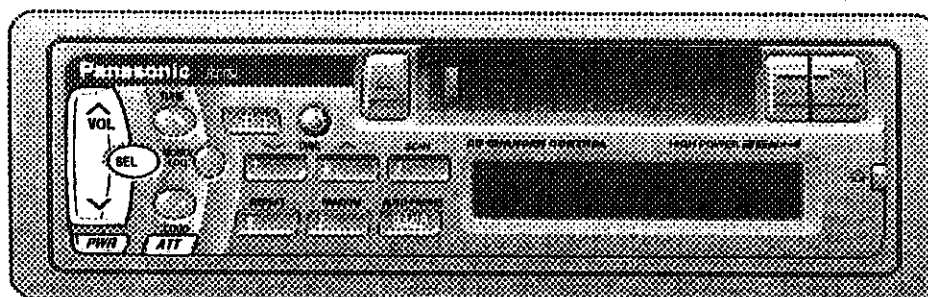


CQ-R115LEN & CQ-R113GLEN

OPERATING INSTRUCTIONS

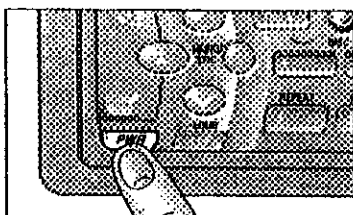
Power and Sound Controls



Power

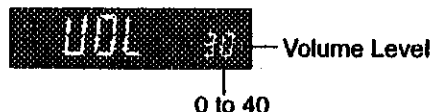
If the car is not already running, turn the key in the ignition until the accessory indicator lights.

Press PWR to switch on the power.

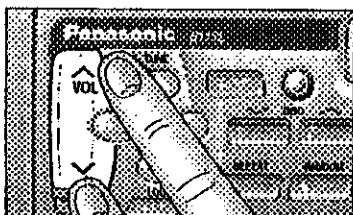


Volume

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

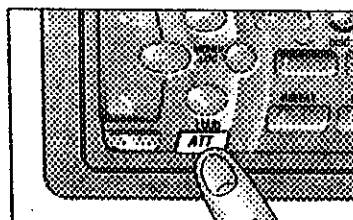


Press "VOL ^" or "VOL v" for more than a half second to change numeric levels on the display rapidly.



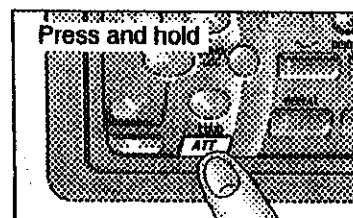
Attenuator

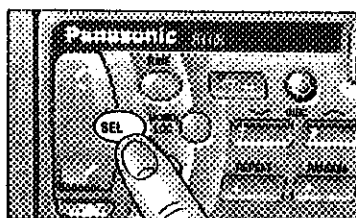
- Press ATT. Volume will decrease to about 1/10 of its previous level.
- Press ATT again to deactivate when listening at normal volume.



Tone Enhancement

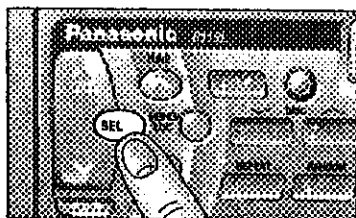
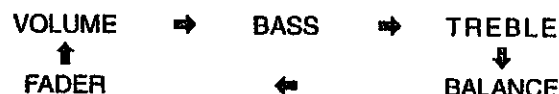
- Press and hold ATT(LOUD) for more than 2 seconds to enhance bass and treble tones when listening at low or medium volume.
- Press and hold ATT(LOUD) for more than 2 seconds again to deactivate when listening at higher volumes.





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 v" to increase or decrease the bass/treble response.



—12 to 12



—12 to 12

Balance

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



or L 1 to 15



Balance Center

Fader

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



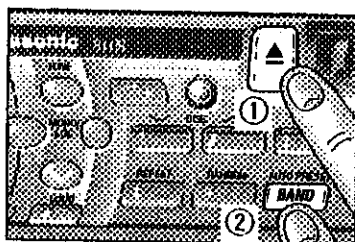
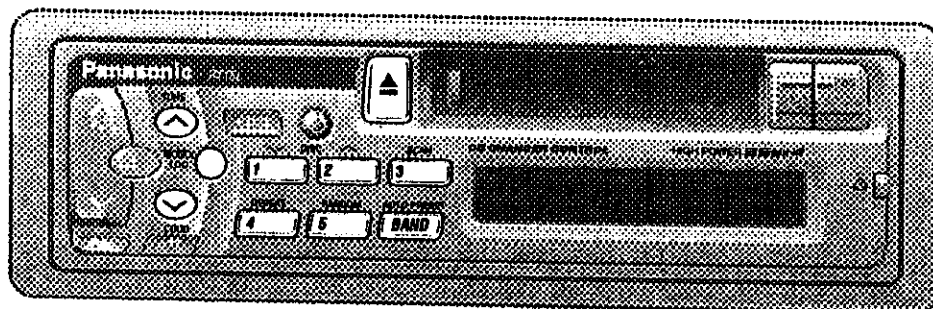
or R 1 to 15



Fader Center

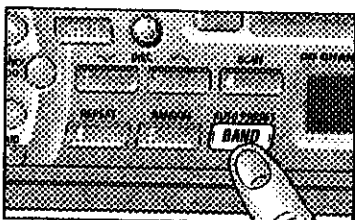
Note: When a control mode (BAS/TRE/BAL/FAd) is selected but no operation is made within 5 seconds, the display will return to the normal operation (volume adjustment) mode. In such a case, press SEL again to select the next control mode.

Radio Basics



Change to the tuner mode

- ① In case of Tape modeEject a tape.
- ② In case of CD Changer modePress BAND.
(Only for CQ-R115)

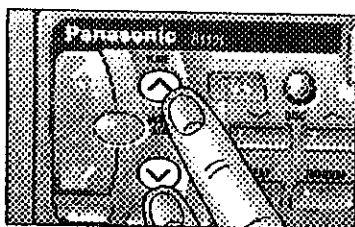


Selecting a Band

Press BAND to select the bands in the following order.

FM1 → FM2 → FM3 → AM(MW/LW)

"ST" indicator lights if the station is broadcasting in stereo.



Manual Tuning

Press "△TUNE" or "▽TUNE" to move to a higher or lower frequency.



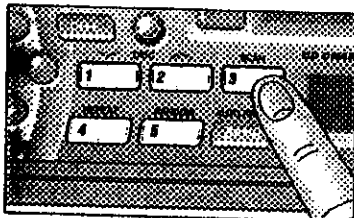
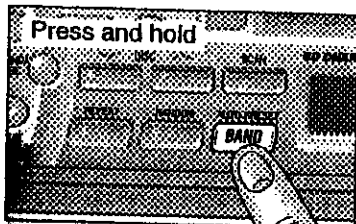
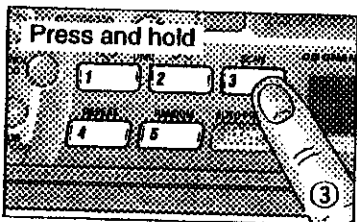
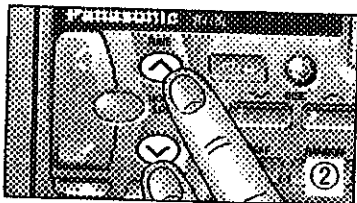
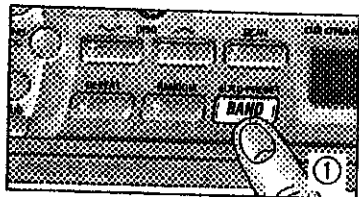
Seek Tuning

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

Preset Station Setting

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

FM1	FM2	FM3	AM(MW/LW)
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. The memory is now set for that button on the band you have selected.

Repeat the process to set other stations for the FM1 to AM bands.



—Preset Channel Indicator

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

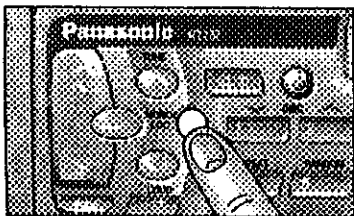
Select a band and press and hold BAND (AUTO PRESET) for more than 2 seconds.

- 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.

CG-R115LEN
CG-R113GLL

Radio Basics continued



MONO/LOCAL Selection

- Much Interference is reduced during a weak FM stereo broadcasts when MONO is ON. (Only for FM mode)
- Searching stops automatically at a strong wave station only when LOCAL is ON.

Press MONO/LOC to switch the mode in the following order.

① During FM broadcasts.

Press MONO/LOC to switch on or off the MONO mode as follows.
MONO OFF ↔ MONO ON

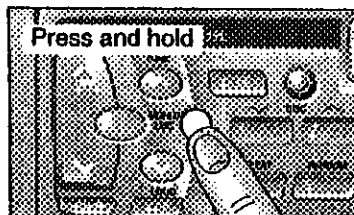
Press and hold MONO/LOC for more than 2 seconds to switch on or off the LOC mode as follows.

LOCAL OFF ↔ LOCAL ON

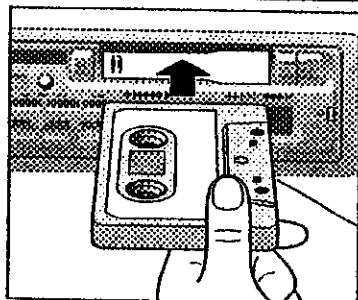
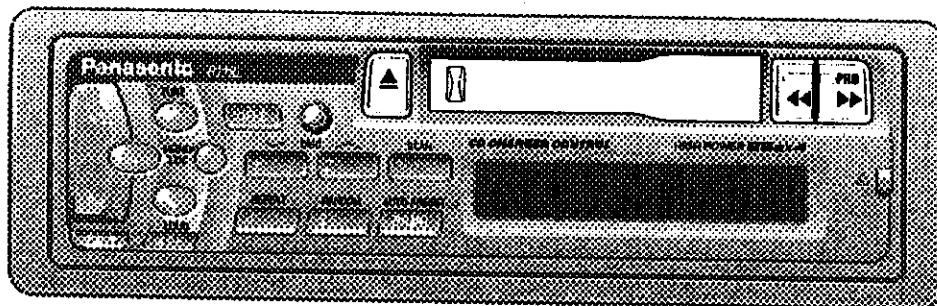
② During AM broadcasts.

Press and hold MONO/LOC for more than 2 seconds to switch on or off the LOC mode as follows.

LOCAL OFF ↔ LOCAL ON



Cassette Tape Player Basics



Loading a Cassette

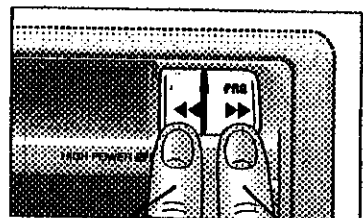
Gently insert the cassette with the exposed tape facing to the right until the mechanism captures it, and playback starts.



EXPOSED TAPE

Rewind and Fast Forward

- When the program indicator (▲) lights, Press ◀◀ to rewind or press ▶▶ to fast forward the tape.
- When the program indicator (▼) lights, Press ◀◀ to fast forward or press ▶▶ to rewind the tape.



▲ lights: REWIND
▼ lights: FAST FORWARD
▲ lights: FAST FORWARD
▼ lights: REWIND

To stop rewind or fast forward, gently press the button that is not in use. The tape will resume playing from that position.

Changing Sides

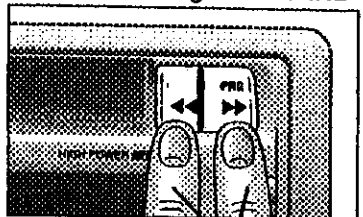
Firmly press ◀◀ (REW) and ▶▶ (FF) at the same time to switch to the program on the other side of the tape. The display changes to indicate which program is playing.



TOP SIDE PLAYING



BOTTOM SIDE PLAYING



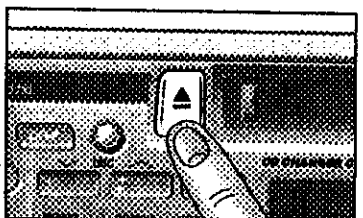
PRESS BOTH

Stopping and Ejecting the Tape

Once inserted into the unit, your tape will play continuously until you eject it. If you press and engage ▲ (EJECT), the unit clears the tape and returns to radio operation. When you shut off the car engine, the tape will stop but not eject.

Note:

- It can not be changed to CD Changer mode (Only for CQ-R115) or Radio mode while tape playing. If you want to change to CD Changer mode (Only for CQ-R115) or Radio mode, eject the tape.
- Always remove the cassette when you are done using the cassette player. This will prolong the life of your tape.

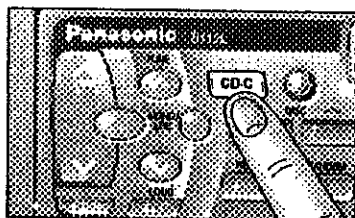
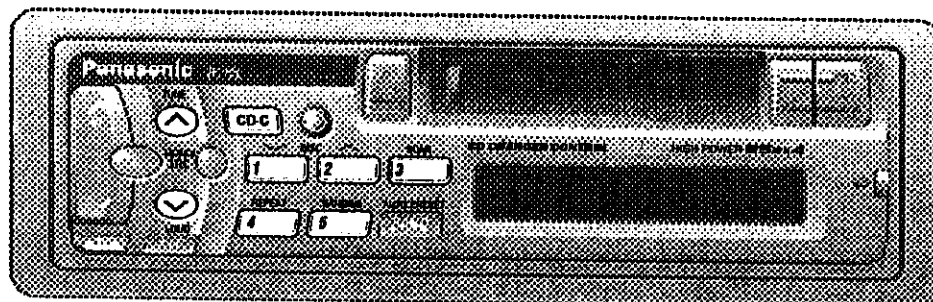


CD Changer Basics

<Only for CQ-R115LEN>

Note:

CD changer functions are applicable to units with optional CD changer unit. (sold separately)

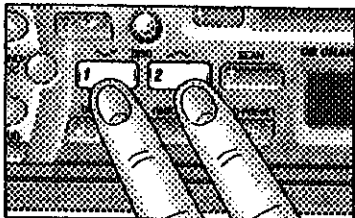


To changer mode

While a disc magazine inserted in the CD changer, press CD • C.
Play starts from first track.

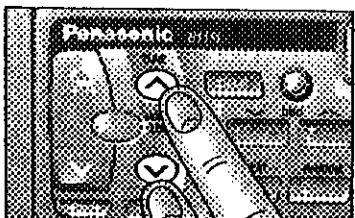


Note: The cassette, if loaded, should be removed. Otherwise, the CD play won't start.



Selecting a Disc

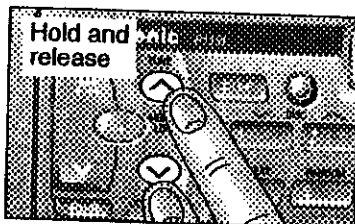
Press "DISC^" or "V DISC" to select discs in ascending or descending order.



Selecting a Track

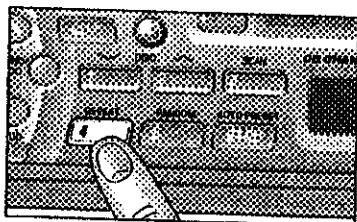
Press "TRACK^" once to go to the next track. Press repeatedly to step forward through all the tracks.

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

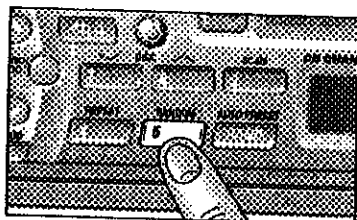


Repeating a Track

- Press REPEAT to repeat the current selection. "REPEAT" indicator lights.



- The current selection continues to repeat until you press REPEAT again.

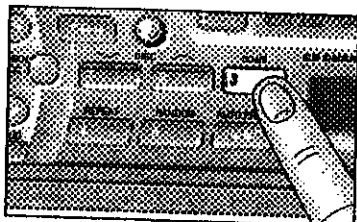


Random Selection

- Press RANDOM to random selection of music is played from all available CDs. "RANDOM" indicator lights.



- To turn it off, press RANDOM again.



Scanning Tracks

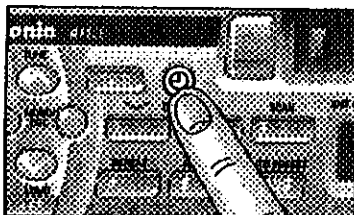
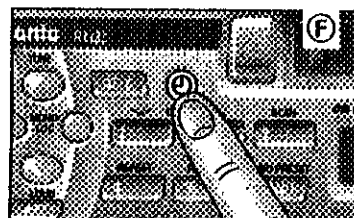
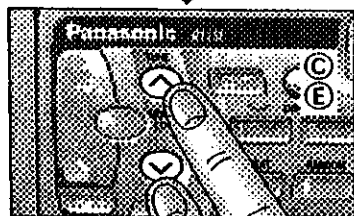
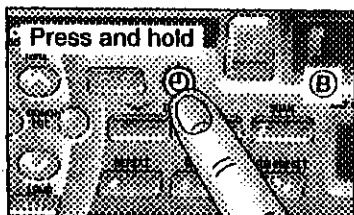
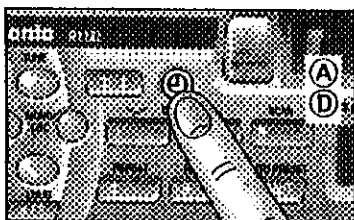
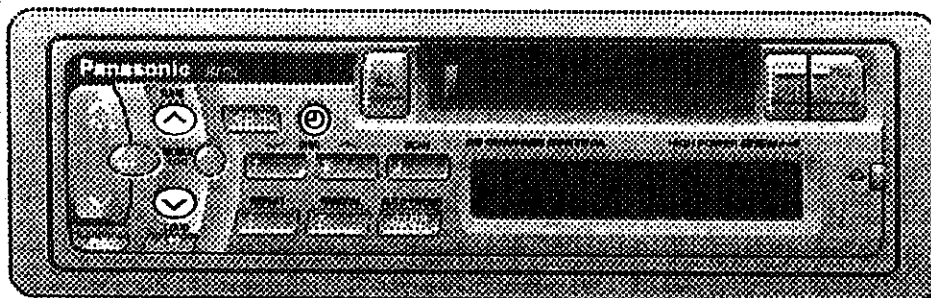
- Press SCAN. The track number blinks and the first 10 seconds of each track on the discs play in sequence.
- To stop scanning and continue with the current track, press SCAN again.

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 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.

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



Initial Time Setting

A Press CLOCK (⌚). "Adj" is displayed.



B Press and hold CLOCK (⌚) again for more than 2 seconds. "12" blinks indicating the time setting mode is activated.



C To set hours, press "VTUNE" or "TUNE^".



D Press CLOCK (⌚) again for minute setting.



E To set minutes, press "VTUNE" or "TUNE^".



Hold "A" or "V" to change numbers rapidly.

F When you have set the time, press CLOCK (⌚).

Resetting the Time

When you want to reset the time, press and hold CLOCK (⌚) for more than 2 seconds to activate the time setting mode. Then, repeat step C to F above.

Selecting the Clock Display

Press CLOCK (⌚) for clock display.


Press CLOCK (⌚) once again, the current audio display mode resumes.

Anti-Theft System

Note: The security indicator is inactivated when it is shipped.

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.

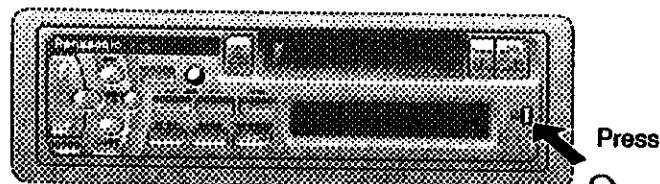


Fig. 1

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

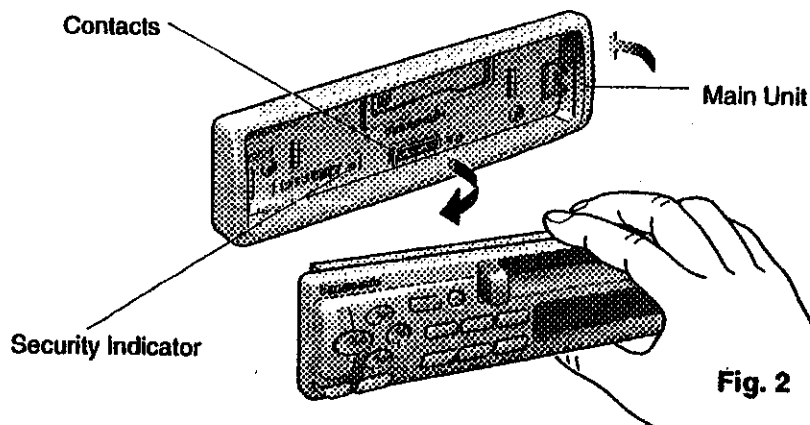


Fig. 2

- 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.

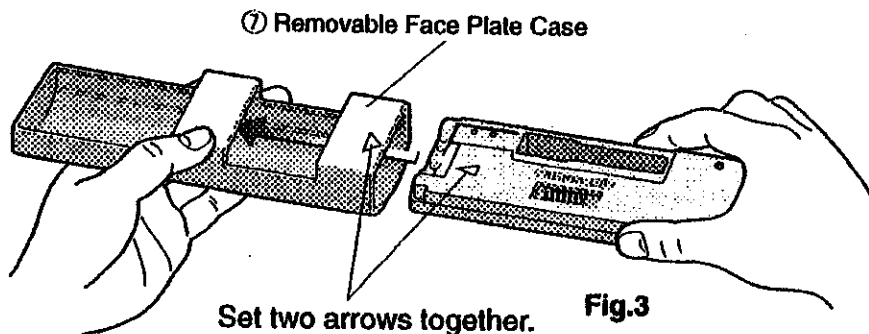


Fig.3

Anti-Theft System continued

To install the Removable Face Plate

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

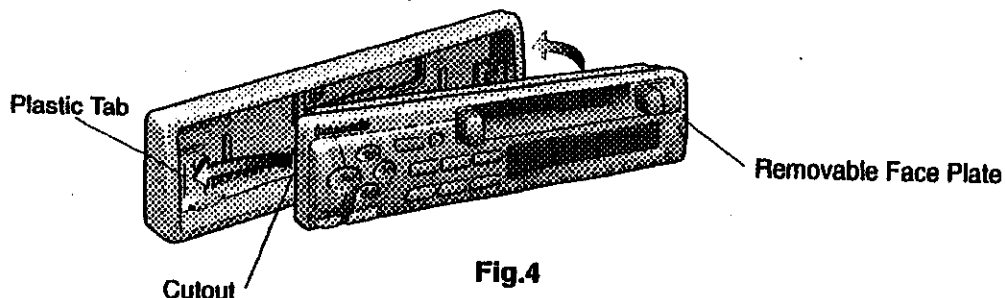


Fig.4

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

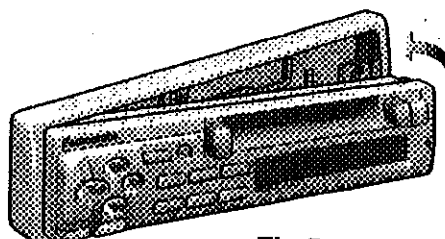


Fig.5

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.

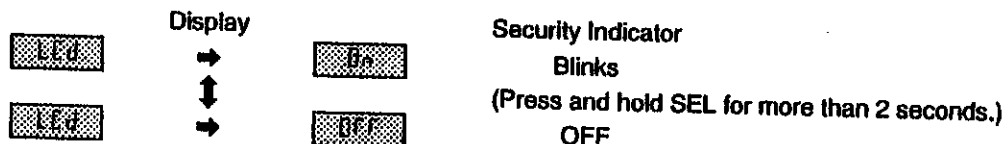
Note: The security indicator is inactivated when it is shipped.

Security Indicator

The security indicator blinks when the removable face plate is removed from the unit.

Activate Security Indicator

Press and hold SEL for more than 2 seconds when the power is ON. "LEd On" is displayed, and the security indicator turns ON.



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.

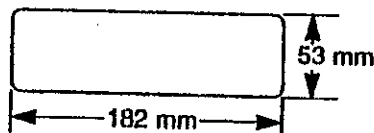


Fig. 1

Installation Precautions

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 32 and 33 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 Hardwares

No.	Item	Diagram	Q'ty
①	Mounting Collar		1
②	Hex. Nut (5 mmφ)		1
③	Rear Support Strap		1
④	Tapping Screw (5 mmφ x 16 mm)		1

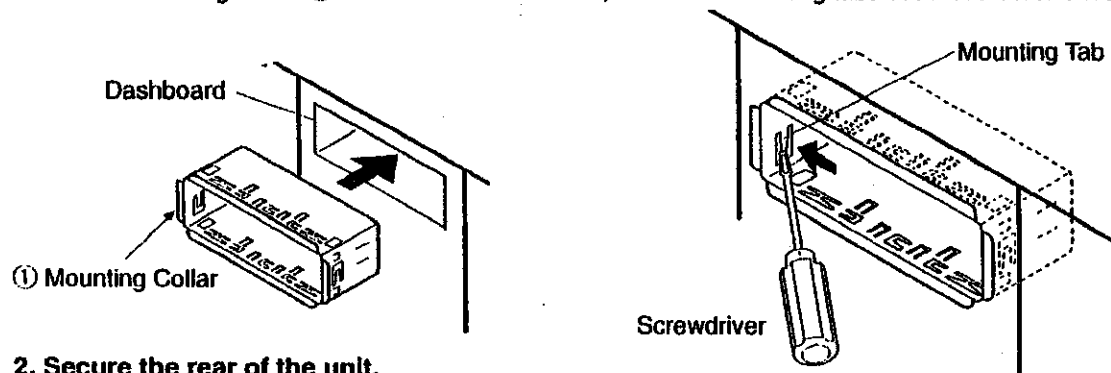
No.	Item	Diagram	Q'ty
⑤	Mounting Bolt (5 mmφ)		1
⑥	Power Connector		1
⑦	Removable Face Plate Case		1

Installation continued

Installation Procedures

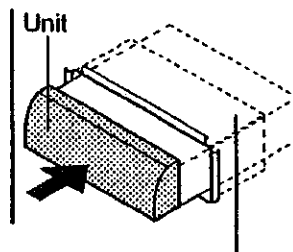
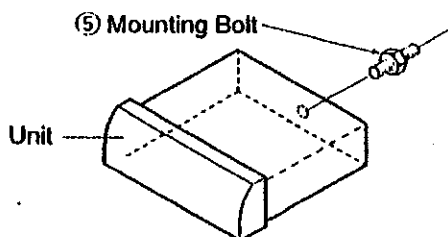
1. Secure the Mounting Collar ①.

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



2. Secure the rear of the unit.

- Check the electrical connection by referring to this operating instructions.
- Connect the Mounting Bolt ⑤, using a suitable wrench.



- Insert the unit into Mounting Collar ① and push it in until "click" is heard.
- Secure the rear of the unit to the car by either of the two recommended methods.

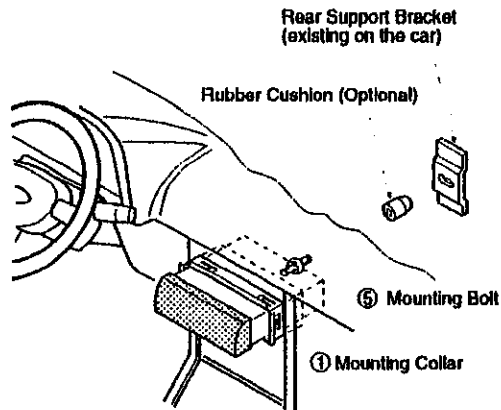
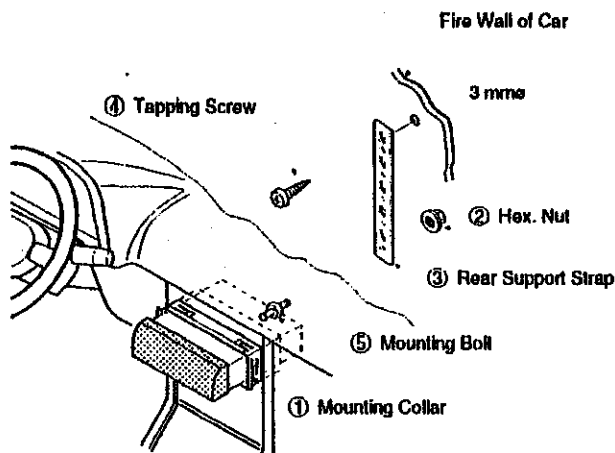
■ Using the Rear Support Strap ③

Affix one end of the Rear Support Strap ③ to the rear of the unit, and the other end to the Fire Wall of Car, or some other metallic area.

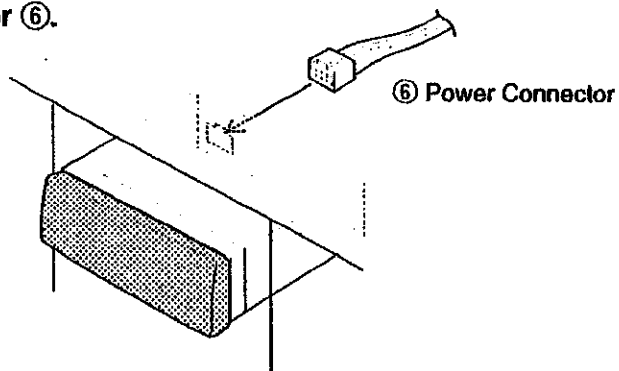
■ Using the Rubber Cushion (Optional)

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

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



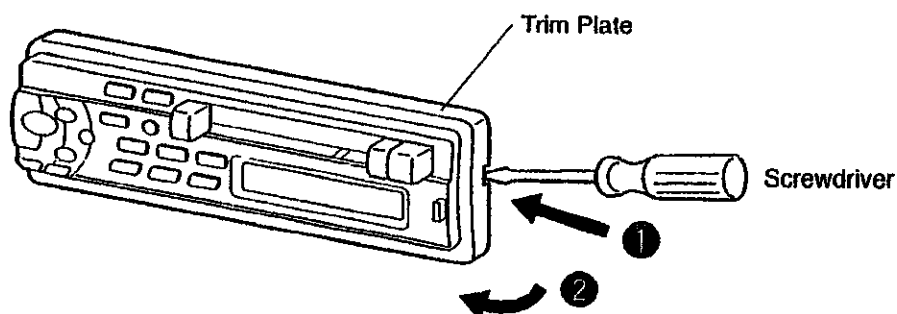
3. Plug the Power Connector ⑥.



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

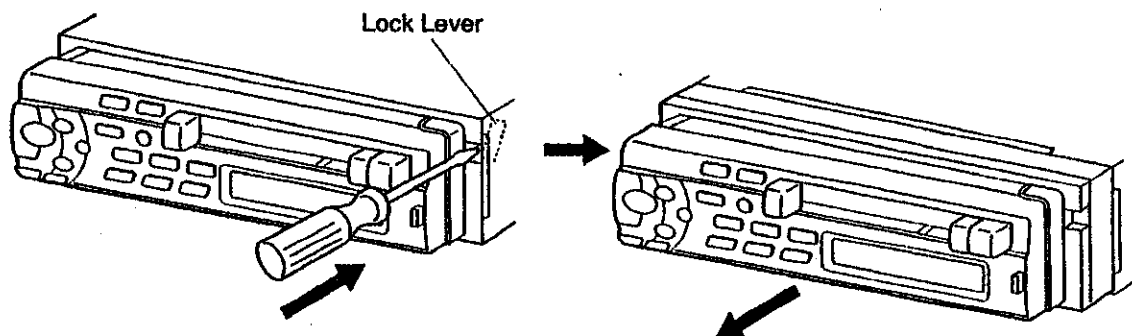
To Remove the Unit

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



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

- c) Remove the unit pulling with both hands.

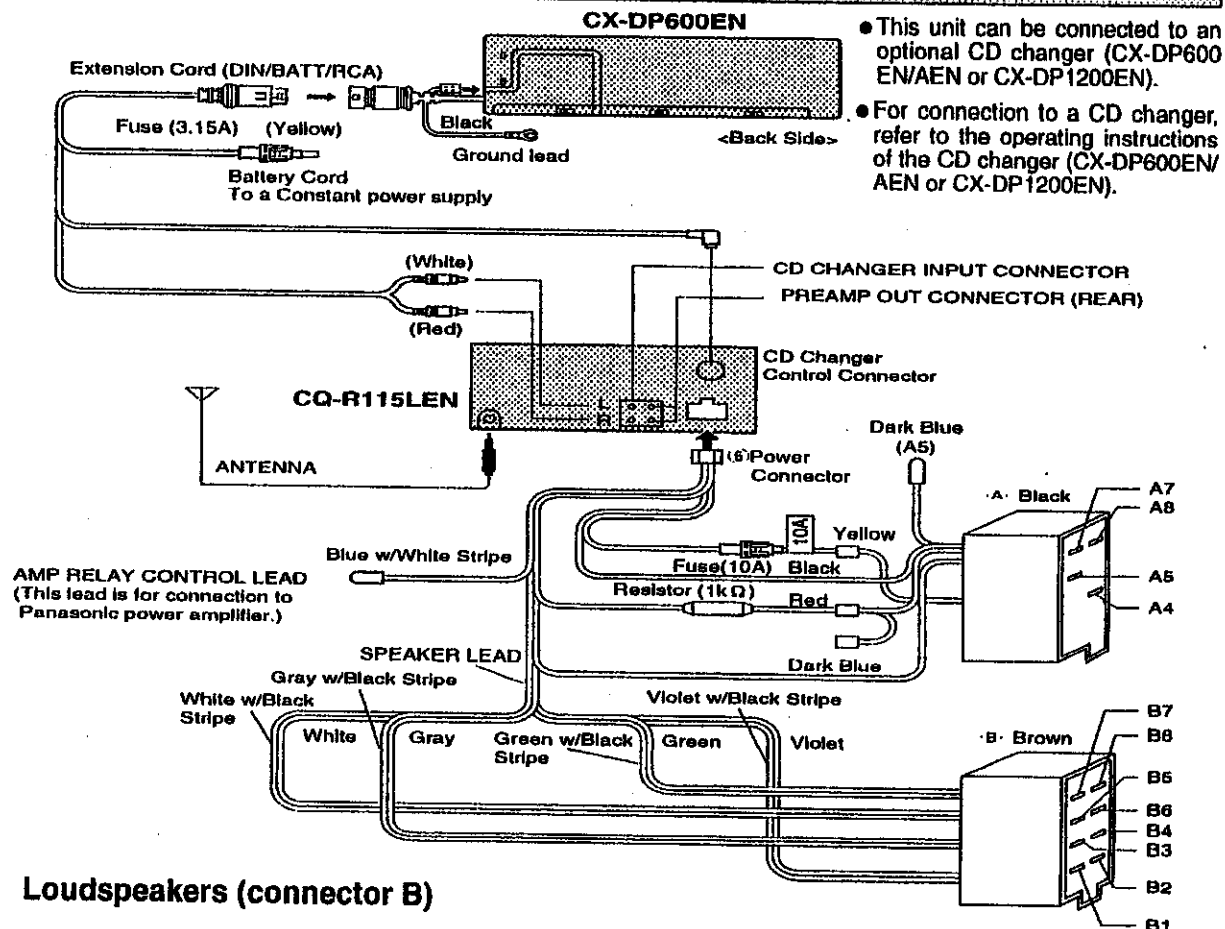


Electrical Connection

<Only for CQ-R115LEN>

Caution:

- Confirm the note on page 4, and make connections to the connectors on car side.
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Do not insert the power connector into the unit until the wiring is completed.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.



• This unit can be connected to an optional CD changer (CX-DP600 EN/AEN or CX-DP1200EN).

• For connection to a CD changer, refer to the operating instructions of the CD changer (CX-DP600EN/AEN or CX-DP1200EN).

Loudspeakers (connector B)

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

A4

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

A5

MOTOR ANTENNA RELAY CONTROL LEAD (Dark Blue)
(To Motor Antenna) (Max. 500mA)
This lead is not intended for use with switch actuated power antenna.

A7

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

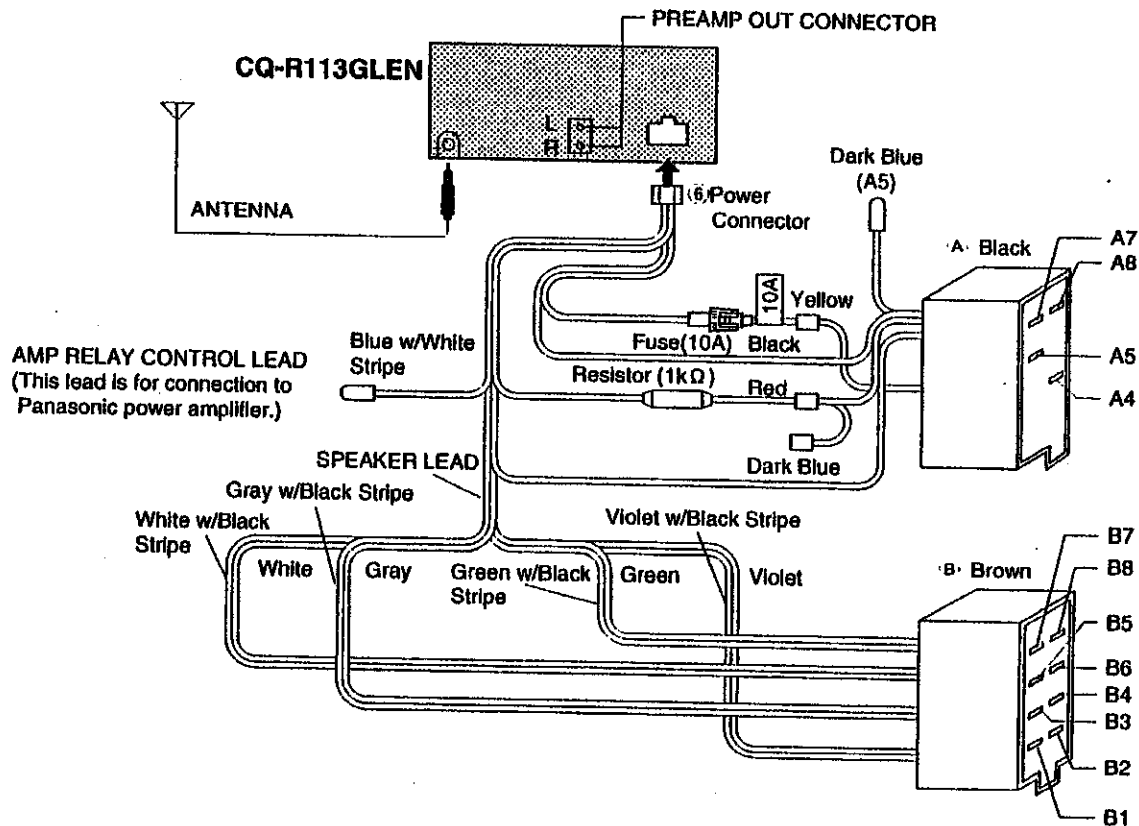
A8

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

<Only for CQ-R113GLEN>

Caution:

- Confirm the note on page 4, and make connections to the connectors on car side.
- To prevent damage to the unit, be sure to follow the connection diagram below.
- 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.



Loudspeakers (connector B)

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

A4

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

A5

MOTOR ANTENNA RELAY CONTROL LEAD (Dark Blue)
(To Motor Antenna) (Max. 500mA)
This lead is not intended for use with switch actuated power antenna.

A7

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

A8

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

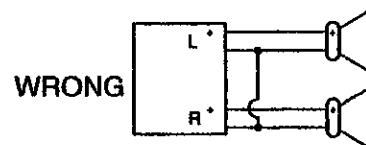
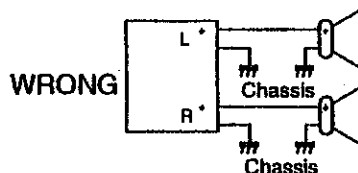
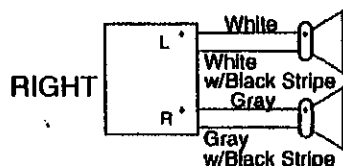
CQ-R113GLEN
CQ-R113GLEN

Speaker Connections

CAUTION:

1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 25W 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 BTOL 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.

