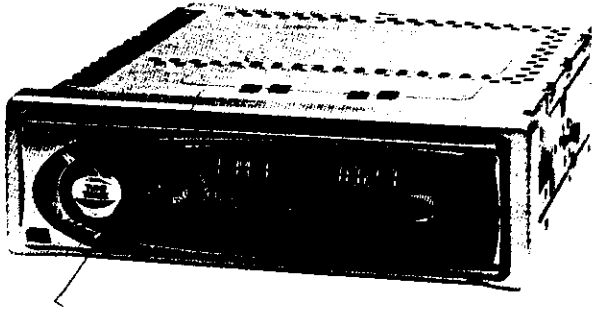


**COMPACT**  
**disc**  
**DIGITAL AUDIO**



## CQ-DFX777EW

High Power CD Player / Receiver with  
Changer Control

### Specifications\*

#### General

<b>Power Supply</b>	12V DC (11V-16V), test voltage 14.4V, negative ground
<b>Maximum Power Output</b>	40W×4ch, at 400Hz, Vol. MAX
<b>Power Output</b>	14W×4(DIN45 324, at 4Ω)
<b>Tone Adjustment Range</b>	Bass; ±12 dB at 100Hz Treble; ±12 dB at 10kHz
<b>Pre-Amp Output Voltage</b>	2.0V (CD play; 1kHz 0 dB)
<b>Output Impedance</b>	600Ω
<b>Current Consumption</b>	Less than 2.2A (CD play)
<b>AM Radio</b>	
<b>Frequency Range</b>	531-1,602kHz
<b>Usable Sensitivity</b>	28dB/μV (25μV, S/N 20 dB)
<b>FM Stereo Radio</b>	
<b>Frequency Range</b>	87.5-108.0MHz
<b>Usable Sensitivity</b>	6dB/μV(S/N 30dB)
<b>Stereo Separation</b>	42dB at 1,000Hz

#### CD Player

<b>Sampling Frequency</b>	32 times over sampling
<b>DA Converter</b>	MASH · 1bit 4-DAC system
<b>Error Correction System</b>	Panasonic super decoding algorithm
<b>Pick-Up Type</b>	Astigma 3-beam
<b>Light Source</b>	Semiconductor laser
<b>Wavelength</b>	780nm
<b>Frequency Response</b>	20Hz-20,000Hz,±1 dB
<b>Signal/Noise Ratio</b>	96 dB
<b>Total Harmonic Distortion</b>	0.01% (1,000Hz)
<b>Wow and Flutter</b>	Below measurable limits
<b>Channel Separation</b>	75 dB
<b>Dimensions** (W×H×D)</b>	
	7"×1-15/16"×5-7/8 (178×50×150 mm)
<b>Weight**</b>	3 lbs. 5 oz (1.5kg)

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

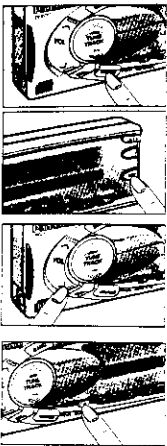
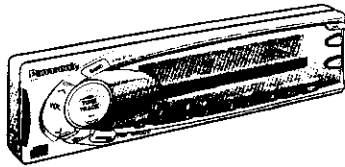
\*\* Dimensions and Weight shown are approximate.

**Panasonic®**

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distribution is a violation of law.

# 6 OPERATING INSTRUCTIONS

## Power and Sound Controls



### Power

Turn the key in the ignition until the accessory indicator lights. Press [SOURCE](PWR) to switch on the power. Press and hold [SOURCE](PWR) again for more than 1 second to switch off the power.

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

### Volume

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



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

**Mute**  
• Press [\*](MUTE) to mute the sound completely. When MUTE is on, "MUTE" indicator will light, and "MUTE" will blink on the display.

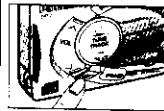


• Press [\*](MUTE) again to cancel.

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

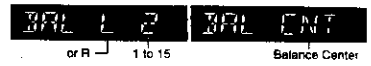
8

## Power and Sound Controls (continued)

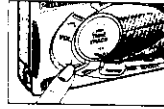


### Balance

Press [SEL] to change to the balance mode. Press [^ VOL] or [v VOL] to shift the sound volume to the left or right speakers.



or R 1 to 15 Balance Center

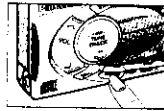


### Fader

Press [SEL] to change to the fader mode. Press [^ VOL] or [v VOL] to shift the sound volume to the front or rear speakers.



or R 1 to 15 Fader/Center



### Selecting the Auxiliary Source

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



**(Connecting the AUX input mode)**

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

### Display Controls



### Dimmer

Press and hold [LEVEL](DIMMER) for more than 2 seconds to change the dimmer level from one level to another through the cycle of 3 levels as follows.

Dimmer 1 (Bright) → Dimmer 2 (Medium) → Dimmer 3 (Dark)

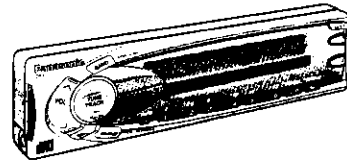


### Level Meter Display Switching

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

10

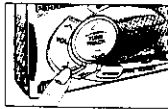
## Radio Basics



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

**3-DSB and Loudness Combination**  
Press [3-D] to change the combination of the 3-DSB and loudness as follows.

3-DSB OFF → 3-DSB ON → 3-DSB OFF  
LOUD OFF → LOUD ON → LOUD OFF



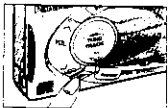
### 3-DSB Effect Level

• Press and hold [3-D](EFFECT) for more than 3 seconds when 3-DSB is on; the 3-DSB effect level can be adjusted (except during radio mode using the Virtual Stereo Effect).

• Press [^ VOL] or [v VOL] to select one of the 10 volume levels (0 to 9).

### 3-DSB System

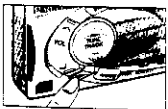
It is a new sound system combining 3-dimensional sound from two front speakers with rear channel super bass when receiving stereo broadcast. 3-DSB also gives you a sound with Virtual Stereo Effect from 4ch speakers when receiving AM monaural broadcast or FM broadcast in the monaural mode. The 3-DSB employs Spatializer ICs of Desper Products, Inc.



### Audio Mode

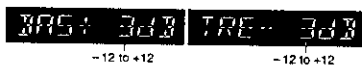
Press [SEL] to change the audio mode setting as follows.

Regular Mode → VOLUME → BASS → TREBLE → BALANCE  
FADER



### Bass and Treble

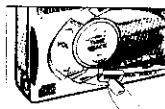
Press [SEL] to change to the bass (or treble) mode. Press [^ VOL] or [v VOL] to increase or decrease the bass (or treble) level.



-12 to +12 -12 to +12

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

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### Tuner Mode

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

Tuner → CD player → CD changer control  
(When a disc is inserted) (When a CD changer is connected)  
AUX



### Band

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

FM1 → FM2 → FM3 → AM

\*ST indicator lights during reception of a stereo broadcast.



### Manual Tuning

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



### Seek Tuning

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

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## Radio Basics (continued)



### MONO/LOCAL Selection

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

① **FM broadcast**  
Press and hold [MONO/LOCAL] in the tuner mode for more than 2 seconds to switch between the MONO and LOCAL modes. Each time [MONO/LOCAL] is pressed, the display changes as follows.  
MONO OFF/LOCAL OFF → MONO ON/LOCAL OFF  
MONO OFF/LOCAL ON → MONO ON/LOCAL ON

② **AM broadcast**  
Press and hold [MONO/LOCAL] for more than 2 seconds to change the local mode as follows.  
LOCAL OFF → LOCAL ON

### Station Preset

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

### Manual Station Preset

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



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

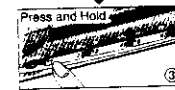
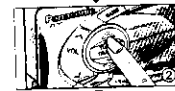
### Tuning in a Preset Station

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

### Auto Station Preset

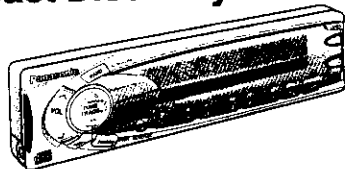
Select the band, press and hold [BAND](APM) for more than 2 seconds (Auto Preset Memory).

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



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## Compact Disc Player Basics

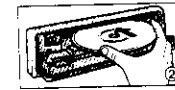


### Loading a Disc

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

**Notes:**

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

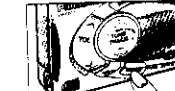


### Ejecting a Disc

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

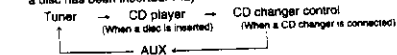
**Note:** Always remove the disc from the unit when the CD player is not being used.

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



### Starting CD Play

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



### Track Selection

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



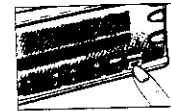
13

## Compact Disc Player Basics (continued)



### Track Search

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



### Track Repeat

Press [REP] to repeat the current selection.



Press [REP] again to cancel.

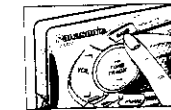


### Random Selection

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



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

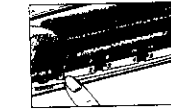


### Track Scan

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



Press [BAND](SCAN) again to cancel.



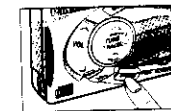
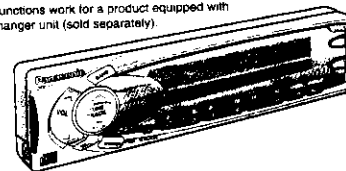
### Direct Selection by Track Number

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

14

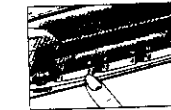
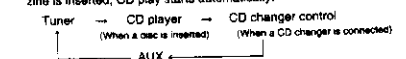
## CD Changer Basics

**Note:** The CD changer functions work for a product equipped with the optional CD changer unit (sold separately).



### Starting the CD Changer

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



### Direct Disc Selection

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



### Track Selection

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

15

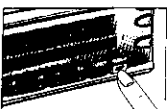
ENGLISH

## CD Changer Basics (continued)



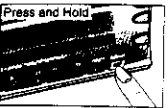
### Track Search

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



### Track Repeat

Press [REP] to repeat the current selection.  
Press [REP] again to cancel.



### Random Selection

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

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

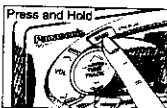
When [REP] is pressed in the random mode, random play stops and repeat play resumes.



### Track Scan

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

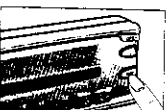
16



### Disc Scan

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

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



### Changing the Display

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

Disc/Track Number/Track Play Time → CLOCK  
Title Mode →

**Note:** You cannot change the current display while the CD player or CD changer is set to the scan play mode.

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ENGLISH

## CD Changer Basics (continued)

### Error Display Messages

#### □ CD

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

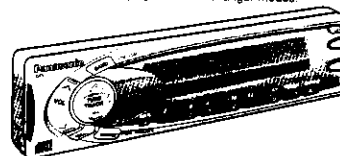
#### □ CD Changer

Appears on the display when the compact disc is dirty or upside down. Selects the next available compact disc.
Appears on the display when compact disc is scratched. Selects the next available compact disc.
Appears on the display when the unit stops operating for some reason. Press [RESET] on the CD changer (optional).
Appears on the display when there is no disc in the magazine.

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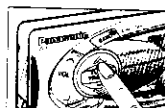
## Disc Title Input

This feature can be used in both the CD player and CD changer modes.



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The feature makes it possible to input titles up to 8 characters into the unit memory to indicate the CD artist, album title, etc. The title will automatically appear when the CD is next played until it is changed.



### For Input Characters

- A character can be input into the blank space where the " \_ " blinks on the display.

Disc No. (Only for CD changer)

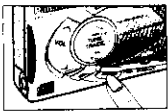
- The following characters can be input for titles.

→ ABCDEFGHIJKLMNOP —  
→ OPQRSTUVWXYZ —  
→ ~ ¯ 0 1 2 3 4 5 6 7 8 9 —  
→ / # + - = : ; \_ (blank space) —

Press [^] or [v] to select each of the characters in turn in ascending or descending order.

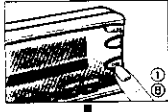
19

## Disc Title Input (continued)



### Disc Title Input

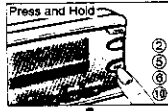
One title per disc for up to 25 discs can be input and stored in the unit memory.  
Press [SOURCE] to change to the CD player or CD changer mode. Play the disc whose title is to be input.



#### Only for CD changer control

① Press [DISP] to change to the title mode for the disc now playing as follows.  
Disc/Track Number/Track Play Time→CLOCK→Title Mode

"\*\*\*\*\*" appears if no title has been input.  
② Press and hold [DISP](TITLE) for more than 2 seconds to change to the disc mode. The disc No. starts blinking.

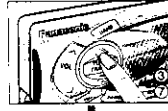


③ Press [^ TUNE] or [v TUNE] to select the disc whose title is to be input, while the disc No. is blinking.

④ Press [BAND] to set the selected disc.

⑤ Press and hold [DISP](TITLE) for more than 2 seconds and confirm that the disc No. starts blinking again.

⑥ Press and hold [DISP](TITLE) for more than 2 seconds again to change to the title input mode, while the disc No. is blinking. "-----" appears on the display, and the 1st "-" blinks.

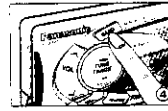


⑦ Press [^ TUNE] or [v TUNE] to select a character.

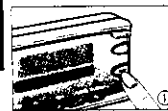
⑧ Press [DISP](TITLE) to initiate the selection of the next character. The next "-" starts blinking.

⑨ Repeat steps ⑦ and ⑧ for each of the remaining characters in the title.

⑩ Once all of the characters have been selected, press and hold [DISP](TITLE) for more than 2 seconds until the display starts blinking to store the title in the memory. The unit returns to the title mode, and the title remains on the display.



## Disc Title Input (continued)



### Clearing Disc Title

Once 25 titles have been stored, the memory is full. You must clear old titles by following the procedure below to make room for new titles.



① Press [DISP] to change to the title mode for the disc now playing. Select the disc, if necessary, by following steps ② to ⑤ on page 20, when the CD changer is connected.

② Press and hold [DISP](TITLE) for more than 2 seconds. The display will change as follows.

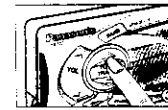
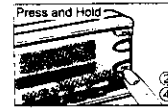
"FULL" (lights for 3 seconds)

"1st title"

③ Press [^ TUNE] or [v TUNE] to select the disc whose title is to be replaced.

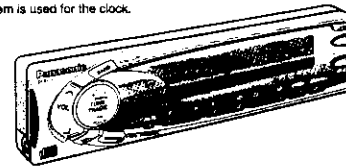
④ When you find the title, clear it by pressing and holding [DISP](TITLE) for more than 2 seconds.

⑤ Change the title by following steps for Disc Title Input on pages 20 and 21.



## Clock Basics

The 12-hour system is used for the clock.



#### Only for CD player

① Press [DISP] to change to the title mode for the disc now playing as follows.  
Track Number/Track Play Time→CLOCK→Title Mode

"\*\*\*\*\*" appears if no title has been input.

② Press and hold [DISP](TITLE) for more than 2 seconds again to change to the title input mode. "-----" appears on the display, and the 1st "-" blinks.

③ Repeat steps ② to ⑩ for the CD changer control on page 20 to input each of the remaining characters in the title.

### Disc Title Display

A CD with a title can be recalled by its title and played during regular CD play.

#### Only for CD changer control

① Press [DISP] to change to the title mode for the disc now playing as follows.  
Disc/Track Number/Track Play Time→CLOCK→Title Mode

② Press and hold [DISP](TITLE) for more than 2 seconds to change to the disc mode. The disc No. starts blinking.

③ Press [^ TUNE] or [v TUNE] to recall the title of the other disc stored in the memory, while the disc No. is blinking.

④ Press [BAND] to start playing the CD whose title is shown on the display, while the disc No. is blinking.

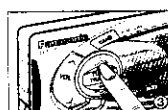
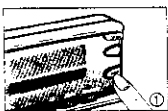
⑤ Press [DISP] to return the display to regular CD play.

• Press [DISP] to return the display to regular CD play.

#### Only for CD player

Press [DISP] to change to the title mode for the disc now playing as follows.

Track Number/Track Play Time→CLOCK→Title Mode



• Press [DISP] to return the display to regular CD play.

### Initial Time

The [DISP](CLOCK) button will not work while the CD player or CD changer is set to the scan play mode. Cancel the scan play mode before pressing [DISP](CLOCK).

① Press [DISP](CLOCK).

"ADJUST" appears on the display.

② Press and hold [DISP](CLOCK) again for more than 2 seconds. "12" blinks, and the time setting mode is activated.

③ Press [v TUNE] or [^ TUNE] to set the hour.

④ Press [DISP](CLOCK) again to proceed with the minutes setting.

⑤ Press [v TUNE] or [^ TUNE] to set the minute.

Press [v TUNE] or [^ TUNE] for more than 0.5 seconds to change numbers on the display in sequence.

⑥ Once the time has been set, press [DISP](CLOCK).



### Time Reset

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

### Clock Display

Press [DISP](CLOCK) to change to the clock display as follows.

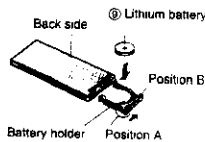
In Tuner Mode Broadcast station → CLOCK  
In CD Mode Playing time → CLOCK → Title Mode  
In AUX Mode "AUX IN" → CLOCK

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

# Remote Control Unit Basics

## Battery Replacement

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

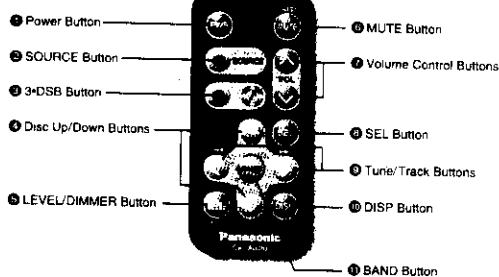


## Battery Notes

- Remove and dispose of an old battery immediately.
- Battery Information:**
- Battery type: Panasonic lithium battery (CR2025)
  - Battery life: 6 months with normal use (at room temperature)

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

## Main Controls



## How to Operate the Controls

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

### General

**Power**  
**1 PWR (Power Button)**  
 Press [PWR] to switch on the power. Press [PWR] again to switch off the power.

**Mute**  
**6 MUTE (Mute Button)**  
 Press [MUTE] to mute the sound completely.  
 Press [MUTE] again to cancel.

**Mode Selection**  
**2 SOURCE (Source Button)**  
 Press [SOURCE] to change the operation mode setting as follows.  
 Tuner → CD player → (CD changer control) → AUX

**Volume**  
**7 ^ v VOL (Volume Control Buttons)**  
 Press [^ VOL] or [v VOL] to increase or decrease the volume level.

**3-DSB**  
**3 3-DSB Button**  
 Press [3] to change the combination of the 3-DSB and Loudness as follows.  
 3-DSB OFF / LOUD OFF → 3-DSB ON / LOUD OFF → 3-DSB OFF / LOUD ON  
 (= Page 9)

**Audio Mode**  
**8 SEL (Select Button)**  
 Press [SEL] to change the audio mode setting as follows.  
 Regular Mode → VOLUME → BASS → TREBLE → FADER → BALANCE

### Display Controls

**Dimmer**  
**5 DIMMER Button**  
 Press and hold [DIMMER] for more than 2 seconds to change the dimmer level from one level to another through the cycle of 3 levels as follows.  
 Dimmer 1 → Dimmer 2 → Dimmer 3 (Bright) (Medium) (Dark)

**Changing the Display**  
**10 DISP Button**  
 Press [DISP] to change the display setting as follows.  
 In Tuner Mode Broadcast station → Clock  
 In CD Mode (Disc No 1) → Clock → Title  
 Track No. → Track Play Time  
 (\* When a CD changer is connected)  
 In AUX Mode "AUX IN" → Clock  
 Refer to the operating instructions for the main unit for more details.

**Level Meter Display Switching**  
**4 LEVEL Button**  
 Press [LEVEL] to change the Level meter setting from one Level meter to another through the cycle of 6 kinds mode.

# Remote Control Unit Basics (continued)

## Radio

**Selecting a Band**  
**11 BAND (Band Select Button)**  
 Press [BAND] to change the band setting as follows.  
 FM1 → FM2 → FM3 → AM

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

**Manual Tuning**  
**9 < > (Manual Tuning Buttons)**  
 Press [>] or [<] to tune in a higher or lower frequency.

"MONO/LOCAL Selection" and "Auto Station Preset" can be used by the remote control unit. (= Page 12)

## Compact Disc Player/CD Changer Control

(When a disc is inserted, play starts.)

**Starting CD Play**  
**2 SOURCE (Source Button)**  
 Press [SOURCE] to change to the CD play mode after a disc has been inserted. Play will start automatically.  
 When the unit is connected with the CD changer, press [SOURCE] repeatedly to change the mode setting as follows.  
 Tuner → CD player → (CD changer control) → AUX

**Track Selection**  
**9 < > (Track Select Buttons)**  
 Press [>] to advance to the next track.  
 Press [←] to play from the beginning of the track now playing.  
 Press [>] or [←] repeatedly to skip the desired number of tracks.

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

**Track Search**  
**9 < > (Track Search Buttons)**  
 Press and hold [>] or [←] for more than 0.5 seconds to advance or reverse through a track.  
 Release [>] or [←] to stop the rapid advance or rapid reverse.

**Disc Selection**  
 (Only for CD changer control)  
**3 ^ v (Disc Up/Down Buttons)**  
 (When the CD changer is connected)  
 Press [^] or [v] to change the discs in ascending or descending order.

"Disc Title Input" can be used by the remote control unit. (= Page 19-22)

# Installation Guide

## Preparation:

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

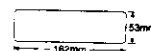
## Caution:

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

## In dash installation

### Installation Opening

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



## Installation Precautions

- This equipment, if possible, should be installed by a professional installer. In case of difficulty, please consult your nearest authorized Panasonic Service Center.
1. This system is to be used only in a 12-volt DC battery system (car) with negative ground
  2. Follow the electrical connection (= page 32) carefully. Failure to do so may result in damage to the unit.
  3. Connect the power lead after other connections are made.
  4. Be sure to connect the YELLOW lead to positive terminal (+) of the battery to fuse block (BAT) terminal.
  5. Insulate all exposed wires to prevent short circuiting.
  6. Secure all loose wires after installing the unit.
  7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

## Installation Hardware

①	Mounting Collar		1	⑥	Power Connector		1
②	Hex. Nut (5 mmφ)		1	⑦	Removable Face Plate Case		1
③	Rear Support Strap		1	⑧	Remote Control Unit		1
④	Tapping Screw (5 mmφ×16 mm)		1	⑨	Lithium Battery		1
⑤	Mounting Bolt (5 mmφ)		1	⑩	Trim Plate		1

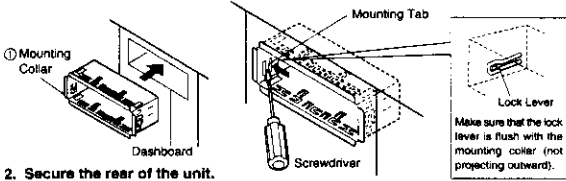
# Installation Guide (continued)

## Installation Procedures

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

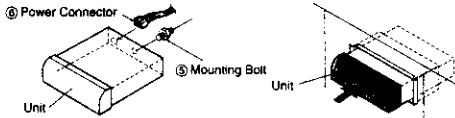
### 1. Secure Mounting Collar (1)

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



### 2. Secure the rear of the unit.

- Check the electrical connections by referring to this operating instructions. (= Page 32)
- Connect Mounting Bolt (2), using a suitable wrench.
- Insert Power Connector (3) to the unit.
- Insert the unit into the Mounting Collar (1) and push it in until a "click" is heard.



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

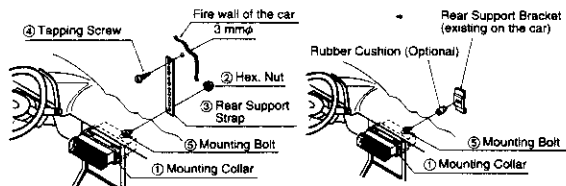
#### Using Rear Support Strap (3)

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

#### Using the Rubber Cushion (Optional)

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

Cover the Mounting Bolt (2) on the rear of the unit with the Rubber Cushion (Optional), and mount it into the existing Rear Support Bracket.



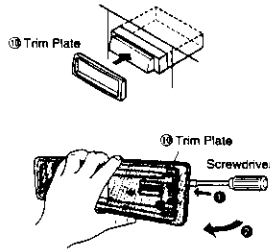
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### 3. Install Trim Plate (10)

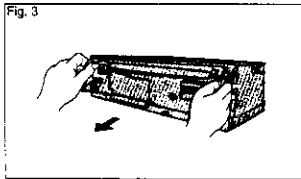
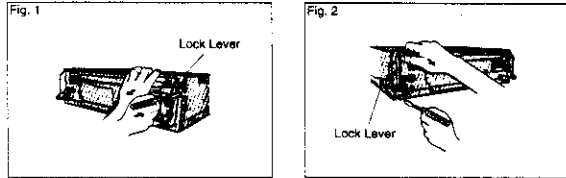
### 4. After installation, reconnect the negative (-) battery terminal.

#### To Remove the Unit

- Remove the removable face plate. (= Page 30.)
- Remove Trim Plate (10) with a screwdriver as shown in the figure.



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



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# Installation Guide (continued)

## Anti-Theft System

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

### To Remove the Removable Face Plate

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

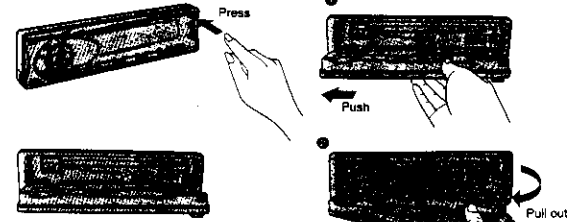


Fig. 4

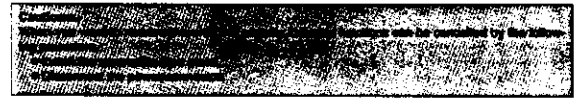
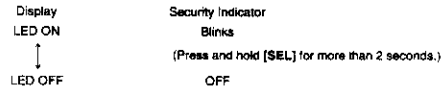
Fig. 5

### Security Indicator

The security indicator (= Fig. 7) blinks when the removable face plate is removed from the unit.

### To Deactivate the Security Indicator

Press and hold [SEL] for more than 2 seconds when the power is on. "LED OFF" is displayed, and the security indicator turns off.



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

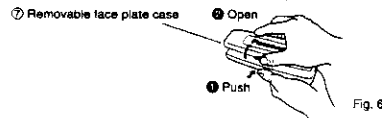


Fig. 6

### To install the Removable Face Plate

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

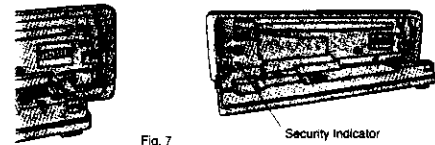


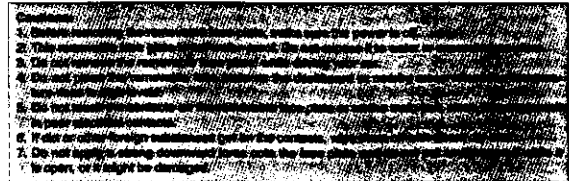
Fig. 7

Security Indicator

Fig. 8

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

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

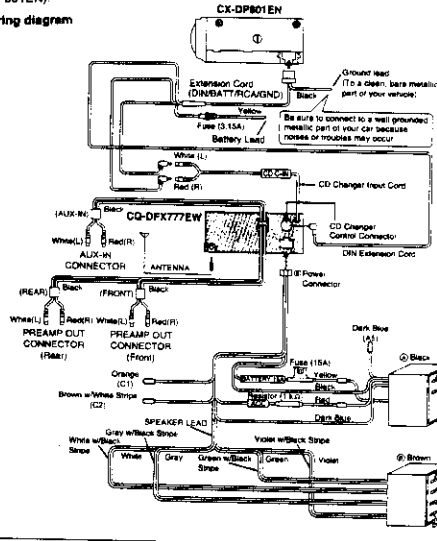


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# Electrical Connections

- This unit can be connected to an optional CD changer (CX-DP801EN). For details consult your nearest Panasonic dealer.
- For connection to the CD changer, refer to the operating instructions of the CD changer (CX-DP801EN).

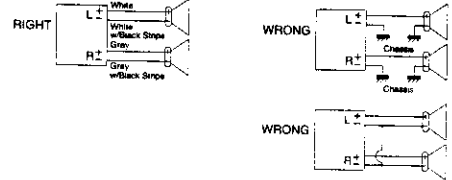
Cable wiring diagram



**NOTE: RECOMMENDED EXTERNAL AMP COMBINATION (EXAMPLE)**  
 Preamp out (rear/front) → CY-M9054 (4 ch system)

# Speaker Connections

• 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.



	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.
- A6 GROUND LEAD (Black)**  
Connect to a well grounded metallic part of your car.
- C1 TELEPHONE MUTE LEAD (Orange) (To car telephone mute line) TELEPHONE MUTE**  
The telephone mute lead, if connected to the car telephone mute line, will activate the muting circuit and the sound from the speakers cannot be heard while the telephone conversation is in progress.  
**Note:** This telephone mute lead is for connection only to the radio mute line. Be sure to ascertain this because it will not work with other type of output system.
- A5 MOTOR ANTENNA RELAY CONTROL LEAD (Dark Blue) (To Motor Antenna) (Max. 100mA)**  
This lead is not intended for use with switch actuated power antennas.  
**AMP-RELAY CONTROL POWER LEAD**  
This lead is for connection to Panasonic power amplifier.
- A7 POWER LEAD (Red)**  
Connect to the "radio" power line of the car or to the "IGN" or "ACC" terminal of the fuse block.
- C2 Not Used**

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# Disc Notes

## Handling and Cleaning

**ONLY USE DISCS CARRYING LABEL SHOWN ON THE RIGHT**

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

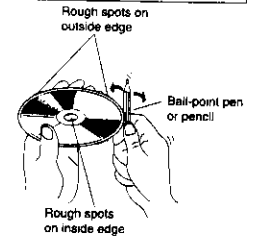
**Disc Cleaning**  
 Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistured with isopropyl (rubbing) alcohol. Never use solvents such as benzene, thinner or conventional record cleaners as they may mar the surface of the disc.

Do not touch the underside of the disc.

Do not bend.

## Preparing New Discs with Rough Spots

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



## FUSE

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

## Maintenance

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

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