

AUTOMOTIVE CONSUMER ELECTRONICS

CQ-DP745EW

Removable Face High-Power CD Player / Receiver



Specifications*

General

Power Supply : DC 12V (11V - 16V),

> Test Voltage 14.4V Negative Ground

: Bass; ± 12dB at 100Hz Tone Action

Treble: ± 12dB at 10kHz

Current Consumption : Less than 2.5A (CD Play Mode) : 35W×4 Channels (at 4Ω)

Maximum Power Output

(Volume Max.)

Power Output : 14W×4 Channels (at 4Ω)

(DIN45 324)

Output Impedance : 4 - 8Ω

AM Radio

Frequency Range : 531 - 1.602kHz Usable Sensitivity : 28dB/µV (\$/N 20dB)

FM Stereo Radio

Frequency Range : 87.5 - 108MHz **Usable Sensitivity** : 6dB/µV (S/N 30dB) Stereo Separation : 40dB (at 1kHz)

CD Player

Sampling Frequency : 32 times oversampling DA Converter : MASH-1bit/4 DAC System

Pick-Up Type : Astigma 3-beam Light Source Semiconductor laser

Wavelength 780 nm

Frequency Response 20Hz to 20,000Hz (±1dB)

Signal to Noise Radio : 96dB

Total Harmonic Distortion: 0.01% (1kHz)

Wow and Flutter : Below measurable limits

Channel Separation : 75dB

Dimensions**

Main unit $(W \times H \times D)$: 178×50×150 mm

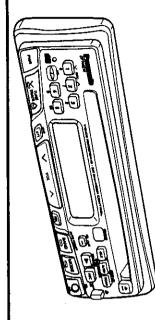
Weight**

Main unit : 1.5kg

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

- Dimensions and Weight shown are approximate.
- Above specifications comply with EIA standards.

Power and Sound Controls



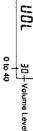


Power

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

Volume

Press "VOL \" or "VOL \" to increase or decrease volume



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

Attenuator

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



Press and Hold

X TO

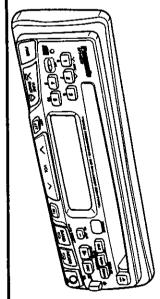
Tone Enhancement

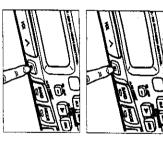
Press and hold LOUD (ATT) for more than 2 seconds to enhance Press and hold LOUD (ATT) for more than 2 seconds again to bass and treble tones when listening at low or medium volume deactivate

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

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

Power and Sound Controls continued





VOLUME FADER

Press SEL to switch the audio mode in the following order **Changing Audio Modes**

BASS BALANCE TREBLE

Bass and Treble

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



-12 to 12 1 RE

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

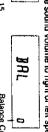
-12 to 12

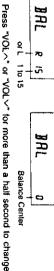
Balance

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









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

numeric levels on the display rapidly.



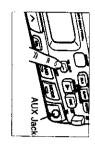




Balance Center

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

press SEL again to select the next control mode. 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,



Selecting Auxiliary Source

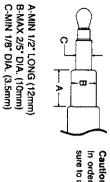
① Press TEL·AUX (三) to select AUX input mode.

AU In

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

Canceling AUX Input mode

the mode will return to the previous mode. Or insert a CD and the mode will change to CD mode. Press TEL-AUX ((=)) or MODE again while the AUX mode is operated.



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 TEL Mode

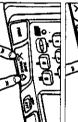
is connected. Press TEL-AUX () repeatedly when the optional Hands Free Unit

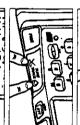
vice versa. The mode will change from current mode to TEL mode and

Last mode ▲



e





Press and hold I

To change Tuner Mode

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



Selecting a Band

FM1 -- FM2 -- FM3 -- AM Press BAND to select the bands in the following order.

Manual Tuning

Press "ATUNE" or "ATUNE" to move to a higher or lower frequency

Seek Tuning

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

FM stereo broadcasts To reduce interference during

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

Switching from DX to LOC

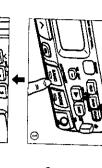
(SCAN) more than 2 Seconds. To stop searching at a strong wave station only, press LOCAL Normally, searching stops even at a weak wave station (DX mode) (SCAN) more than 2 Seconds. To turn it off, press and hold LOCAL

Preset Station Setting

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

Compact Disc Player Basics

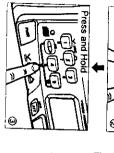
5 stations	781
5 stations	ZW4
5 stations	FM3
5 stations	×



Manual Station Preset

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

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



- b -

Press and Hold

Select a band and press and hold BAND (AUTO PRESET) for more

Auto Station Preset

ŝ 102.7 FR2-3+BUTTON NUMBER

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.



Mode Selection

Xii

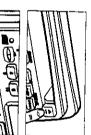
in the following order. While the disc is inserted, press MODE to switch the operation mode

To start the CD Player

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

LOAd

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



Press the appropriate preset button for the station you want to

Once set, the preset stations are sequentially scanned for 5

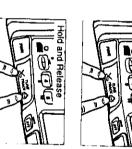
The five strongest available stations will be automatically set in

memory preset buttons 1 through 5.

Stopping and Ejecting a Disc

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

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



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

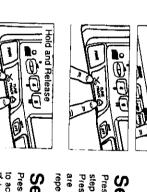
Selecting a Track

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

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

Searching a Track

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





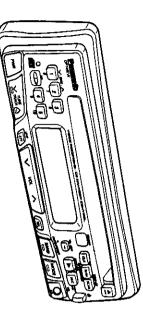


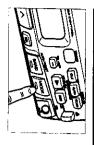






CD Changer Basics





To start the CD Changer

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

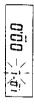
[Only for CX-DP600EN]

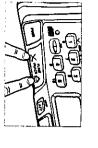


Selecting a Disc

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

[Only for CX-DP600EN]





Selecting a Track

step forward through all the tracks.

Press "VTRACK" once to play from the beginning of the current Press "TRACK^" once to go to the next track. Press repeatedly to

step backward through all the tracks. track. Press twice to play the previous track. Press repeatedly to

Searching a Track

Hold and Release







Repeating a Track

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

AF MA

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

Random Selection

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

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

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

- When R/R ▶ is pressed again, repeat play stops and returns to random play.
- Press and hold R/R ➤ again for more than 2 seconds, random play stops.

Scanning Tracks

Press SCAN. The display blinks and the first 10 seconds of each

track on the discs play in sequence.

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

Scanning Discs

Press and Hold

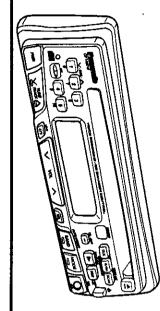
Ø,

the discs in the magazine is played for 10 seconds each. Also, Disc scanning, press and hold SCAN for more than 2 seconds again Number blinks at the same time. To stop the current play of the disc Press and hold SCAN for more than 2 seconds. The 1st track of all

C	£.
Displace what agreement is	Displays when the compact disc is dirty or upside down. The disc eject automatically
	e compa
	ompact disc is dirty
-	dirty or
<u> </u>	upside
	down.T
	he disc
	eject au
	r upside down.The disc eject automatically

Displace when some and to

Compact Disc Player Basics continued





Repeating a Track

Press R/R ➤ to repeat the current selection. will light.

"REPEAT" indicator



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

Random Selection

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



Press and Hold

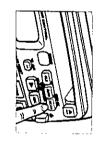
RANDON

To turn off the random play feature, press and hold R/R▶ again for more than 2 seconds. Notes: automatically returns to its beginning upon coming to the end and If R/R ▶ is pressed during random play, the track now in play

REPEAT RANDOM

plays back again. (Random repeat)

- When R/R▶ is pressed again, random play. repeat play stops and returns to
- Press and hold R/H ➤ again for more than 2 seconds, random play stops and repeat play starts.



Scanning a Disc

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



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



Selecting by Track Number

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

Press CLK again for minute setting

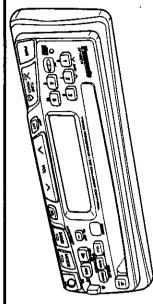
U U

When you have set the time, press CLK

Hold "^" or "V" to change numbers rapidly

ගෙ

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





Press and Hold

Ú

Initial Time Setting

① Press CLK. "AdJ" is displayed

υрн

② Press and hold CLK again for more than 2 seconds. "12" blinks indicating the 9021

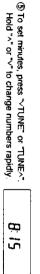


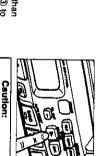
time setting mode is activated

To set hours, press "YTUNE" or "TUNE^". Hold "^" or "v" to change numbers rapidly. 906









Resetting the Time

Press and Hold

5

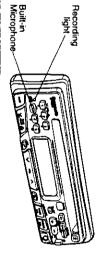
2 seconds to activate the time setting mode. Then, repeat step ③ to above. When you want to reset the time, press and hold CLK for more than

Selecting the Clock Display

Press CLK for clock display

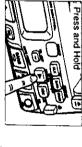
Press CLK once again, the current audio display mode resumes

Voice Recording



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

- To record and playback important notes.
 To record and playback surprise messages to others.
 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 Operation method

- When ► (MIC/AUDIO) is pressed for more than 1 second, record mode changes from MIC to an audio mode (Radio/CD/CD Changer/AUX).
- ("MIC" indicator turns off from LCD display)
 When ► (MIC/AUDIO) is pressed again for more than 1 second, record mode changes from an audio mode to MIC. ("MIC" indicator turns on)

Microphone

Audio (Tuner/CD/CD Changer/AUX)

To record

员

- When "REC" is pressed for more than 1 second during the MIC record mode,
- external sound is recorded through the built-in microphone. When "REC" is pressed for more than 1 second during the audio record mode (Radio/CD/CD Changer/AUX), current program from the
- When "REC" is pressed for more than 1 second again, (before the 20 unit is recorded. seconds end) record ends.
- When recording reaches at the end of 20 seconds, the recording light turns off.

- Maximum recording time is 20 seconds.
 In the audio mode, the recording from the microphone cannot be made

 If you want to erase the previous recorded message, please do.
 Press "REC" for more than 1 second until the recording light is turned on.
 As soon as the recording light turns on, press "REC" again for more than 1 second until the recording light is turned off.

To play

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

Surrounding noise will be recorded, while the recording from microphone

N. A. S. A. S.

1. Do not make recording while the car in motion The previous message will be erased, as soon as you press the recording button

Anti-Theft System

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

To Remove the Removable Face

Switch off the power

② Press the release button (♠). The removable face plate

② Remove the removable face plate by pulling on the right side of the unit. Place the removable face plate in a supplied case will be released. Ę,



To install the Removable Face Plate ① Slide the left side of the removable face plate in place.

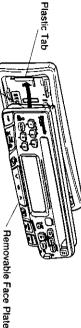
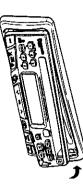


Fig.3

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



- . 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
- Do not remove the removable face plate, while driving your car.
- 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

Anti-Theft System continued

Warning Alarm/Horn Alert

robbery more difficult This car radio equipped with an integrated Warning Alarm & Horn Alert in order to make

Alert may work in a perfect way. Concerning the installation the following points have to be observed: But it has to be secured that the installation will be properly done so that the Warning Alarm & Horn

- The supplied mounting collar has to be firmly fixed with the mounting tabs to the
- The radio has to be put into the mounting collar in that way that it exactly ends with the
- installed correspond to the specifications of this car radio (See technical Please make sure that the technical features (impedance and power) of the speakers

Only when these three points are observed during the installation, the correct function of the "Warn ing Alarm"/"Horn Alert" will be secured.

If the main unit is not correctly wired and installed, the system may accidentally sound the the alarm

Warning Alarm, Horn Alert and Security Indicator

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

Activate Warning Alarm, Horn Alert and Security Indicator

- 1. Press and hold SEL for more than 4 seconds when the power is ON. "LED ON" is displayed, and the security indicator and Warning Alarm turn ON.
- Note: The ALARM mode is inactivated when it is shipped
- 2. To check whether the unit is set in the ALARM ON mode, make sure that the security indicator blinks when the removable face plate is removed

LED → Disappears → ON

Display

Security Indicator

Warning Alarm

Horn Alen

(Press and hold SEL for more than 4 seconds.)

. When removing or installing the unit, make sure that it is in the ALARM OFF mode. If the main unit is not correctly wired and installed, the system may accidentally sound the alarm 1. Warning Alarm and Horn Alert system may not operate if the exclusive supplied mounting collar is not used

This mounting collar will set off the afarm when the unit is being removed.

Caution:

LED → Disappears → OFF

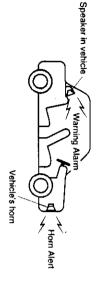
. When the Warning Alarm is activated by mistake, or when you want to remove the unit, the Warning Alarm and the security indicator functions can be canceled by the following steps of procedure

Install the removable face plate.

Disconnect the power connector

Horn Alert (Option)

Hom Alert operates with Warning Alarm to sound the vehicle's hom (or the commercially available hom) It operates in Alarm ON mode only.



In the following case, use a commercially available hom that conforms to the specifications below.

Necessary	No relay used to actuate horn
Necessary	Hom inoperative when ACC/ING is OFF
Commercial External From	type of Car

- <u>*</u> Commercial horn specifications
- Operating voltage : 6 V to 16 V
- (2) Drive current : 0.5 A or less
- (3) Sound pressure level : 80 dB up to 100 dB when horn is actuated at 12 V , 0.5 A
- How to turn off: Difference between Horn Alert and Warning Alarm

	Horn Alert (Car horn)	Horn Alert (Car horn) Warning Alarm (Speaker)
The set's power cable is pulled out or cut off.	Keeps sounding	Stops sounding
Removable face plate is fitted in.	Keeps sounding	Stops sounding
Ignition (ACC) is turned ON.	Stops sounding	Keeps sounding

- Be sure to read the Manual (CA-HAL1EN) supplied with the Horn Alert Unit for a detailed description of the Horn Alert Unit and its installation method.
- Wrong wiring can cause wrong operation. Carefully read the manual before wiring the set

Handheld Case Voice Rec



Usage:

Recording or playback (for about 20 seconds) can be made by setting the removable face plate in this case.

< Example of Use>

- Important reminders can be recorded and playback in voice.
 The route to a destination can be recorded in voice, and be used as a route guide.

Find other ways of recording, playback as desired.

Caution for Use

- This unit is not water-proof. Do not expose it to water or excessive moisture.
- Do not drop this unit.

 Do not place this unit in direct sunlight for a long time.

. Inserting Batteries (Panasonic Lithium Battery CR2032)

 Please confirm the power switch on the back of the case is switched to the OFF position.
 Push (a) inside (Figure 1-(a)) and stide the battery cover in the arrow direction as shown and remove it. (Figure 1-B)

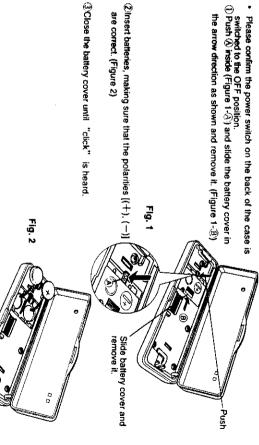
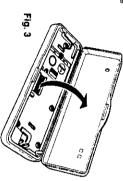


Fig. 4

Inserting Removable Face Plate into Place

- Please confirm the power switch on the back of the case
- is switched to the OFF position.

 ① Open the cover of the case. (Figure 3)

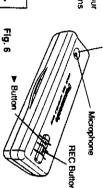


Slide the left end of the removable face plate into place as shown in the figure. (Figure 4) Then, push the right end of the removable face plate until "click" is heard. (Figure 5)



Operation

- Press the power switch on the back of the case to the
- ©Press and hold REC on the case for more than 2 on during recording.) voice (for up to 20 seconds). (The recording light turns seconds, then speak into the microphone to record your



How to erase

If you want to erase the previous recorded message,

①Press and hold REC for more than 2 seconds until the recording fight is turned on

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

Recording with Removable Face Plate set in this case> Recording Ligh Fig. 5 REC Button

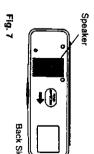
Voice Rec Handheld Case continued

< Playback of Removable Face Plate set in this case>

②Press ▶ the case to hear the recording message from the speaker (I)Press the power switch on the back of the case to the ON position

message, please bring the If it is difficult to hear the





- case to your ear.

- Note:

 After recording or playback, be sure to press the power switch to the OFF position. If the power switch remains in the ON position, the batteries will be consumed soon.

Back Side

applicable model

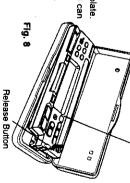
For detail instructions of recording and playback, please refer to the Operating instructions of the

Removing Removable Face Plate

①Press the power switch on the back of the case to the OFF

Removable Face Plate

- (2)Open the cover of the case
- ③Press the release button (♠) for the removable face plate. be removed. (Figure 8) The right end of the removable face plate pops up and can



Replacing Batteries (Panasonic Lithium Battery CR2032)

Please confirm the power switch on the back of the case is switched to the OFF position

Replace the old batteries with new lithium batteries of the part number specified above. (Refer to

- To prevent accidents, keep your batteries away from access by infants
- If playback sound level has fallen, it is time to replace the batteries.
- Battery life is about 3 months in normal use (at normal temperature)