Panasonic®

Removable Full Front MP3 WMA CD Player/Receiver with CD Changer Control

Récepteur/lecteur CD MP3 WMA avec panneau avant amovible et contrôle de changeur CD

Reproductor de CD MP3 WMA/Receptor con Controlador de Cambiador de Discos y Frente Completo Desmontable

CQ-DFX683/DF583U
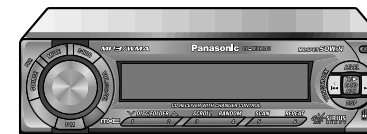
Removable Full Front CD Player/Receiver

Récepteur/lecteur CD avec panneau avant amovible

Reproductor de CD/Receptor y Frente Completo Desmontable

CQ-DF203U

Operating Instructions
Manuel d'instructions
Manual de instrucciones

(CQ-DFX683U)

COMPACT
disc
DIGITAL AUDIO
TEXT   *WMA*   *MP3*

● Please read these instructions carefully before using this product and save this manual for future use.

● Prière de lire ces instructions attentivement avant d'utiliser le produit et garder ce manuel pour l'utilisation ultérieure.

● Lea con atención estas instrucciones antes de utilizar el producto y guarde este manual para poderlo consultar en el futuro.

Safety Information

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE INCLUDED COMPONENTS.

CAUTION:
THIS PRODUCT IS A CLASS I LASER PRODUCT. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

The following applies only in the U.S.A.

Part 15 of the FCC Rules

FCC Warning:

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

NOTICE:
This product has a fluorescent lamp that contains a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations.
For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance:
<http://www.eiae.org.>

Consignes de sécurité

MISE EN GARDE:
POUR RÉDUIRE LES RISQUES D'INCENDIE OU D'ÉLECTROCUTION, N'EXPOSEZ PAS CET APPAREIL À LA PLUIE OU À L'HUMIDITÉ.

AFIN DE PRÉVENIR TOUT RISQUE D'INCENDIE OU D'INTERFÉRENCES, UTILISER UNIQUEMENT LES COMPOSANTS FOURNIS.

ATTENTION:
CET APPAREIL EST UN PRODUIT LASER DE LA CLASSE I.
L'UTILISATION DE COMMANDES OU RÉGLAGES OU L'EXÉCUTION D'OPÉRATIONS AUTRES QUE CELLES QUI SONT INDIQUÉES DANS CE DOCUMENT PEUVENT RÉSULTER EN UNE EXPOSITION À UN RAYONNEMENT DANGEREUX.
N'OUVREZ PAS LES COUVERCLES ET N'ESSAYEZ PAS D'EFFECTUER VOUS-MÊME DES RÉPARATIONS. ADRESSEZ-VOUS À UN PERSONNEL QUALIFIÉ POUR TOUTE RÉPARATION.

Información para su seguridad

ADVERTENCIA:
PARA REDUCIR EL RIESGO DE INCENDIOS O SACUDIDAS ELÉCTRICAS, NO EXPONGA ESTE PRODUCTO A LA LLUVIA NI A LA HUMEDAD.

PARA REDUCIR EL RIESGO DE INCENDIOS O SACUDIDAS ELÉCTRICAS, Y PARA EVITAR LAS INTERFERENCIAS MOLESTAS, UTILICE SOLAMENTE LOS COMPONENTES INCLUIDOS.

PRECAUCIÓN:
ÉSTE ES UN PRODUCTO LÁSER DE LA CLASE I.
LA UTILIZACIÓN DE CONTROLES, EL HACER AJUSTES O EL SEGUIR PROCEDIMIENTOS DISTINTOS DE LOS ESPECIFICADOS EN ESTE MANUAL PODRÍA CAUSAR UNA EXPOSICIÓN PELIGROSA A LA RADIACIÓN.
NO ABRA LAS CUBIERTAS NI HAGA REPARACIONES USTED MISMO. SOLICITE LOS TRABAJOS DE SERVICIO AL PERSONAL CALIFICADO.

Find the model number and serial number on either the back or bottom of the unit. Please record them in the space below and retain this booklet as a permanent record of your purchase to help with identification in case of theft.

	CQ-DFX683U
	CQ-DF583U
MODEL NUMBER	CQ-DF203U
SERIAL NUMBER	
DATE PURCHASED	
FROM	

Il est recommandé de noter, dans l'espace prévu ci-dessous, les numéros de modèle et de série inscrits soit à l'arrière soit sous le fond de l'appareil, et de conserver ce manuel comme mémorandum de l'achat afin de permettre l'identification de l'appareil en cas de vol.

	CQ-DFX683U
	CQ-DF583U
NUMÉRO DE MODÈLE	CQ-DF203U
NUMÉRO DE SÉRIE	
DATE DE L'ACHAT	
VENDEUR	

Busque el número del modelo y el número de serie ya sea en la parte trasera o en el fondo de la unidad. Sírvase anotar dichos números en el espacio siguiente, y mantenga este librete como una anotación permanente de su compra para ayudar en la identificación en el caso de robo.

	CQ-DFX683U
	CQ-DF583U
NÚMERO DEL MODELO	CQ-DF203U
NÚMERO DE SERIE	
FECHA DE COMPRA	
NOMBRE DE LA TIENDA	

Panasonic welcomes you to our ever growing family of electronic product owners. We know that this product will bring you many hours of enjoyment. Our reputation is built on precise electronic and mechanical engineering, manufactured with carefully selected components and assembled by people who take pride in their work. Once you discover the quality, reliability, and value we have built into this product, you too will be proud to be a member of our family.

Use this Product Safely

When Driving
Keep the volume level low enough to be aware of road and traffic conditions.

When Washing Your Car
Do not expose the product, including the speakers and CDs, to water or excessive moisture. This could cause electrical shorts, fire, or other damage.

When Parked
Parking in direct sunlight can produce very high temperatures inside your car. Give the interior a chance to cool down before switching the unit on.

Use the Proper Power Supply
This product is designed to operate with a 12 V DC, negative ground battery system (the normal system in a North American car).

Disc Mechanism
Do not insert coins or any small objects. Keep screwdrivers and other metallic objects away from the disc mechanism and disc.

Use Authorized Servicenters
Do not attempt to disassemble or adjust this precision product. Please refer to the Servicenter list including with this product for service assistance.

For Installation
This product should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°

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

Features

Large-sized volume control
An large-sized rotary volume control that looks like one belonging to a Hi-Fi audio system is featured.

CD Changer Control
CQ-DFX683U CQ-DF583U

You need connect the optional CD changer unit. For details, refer to the operating instructions on the CD changer unit.

MP3/WMA Playback from CD-R/RW
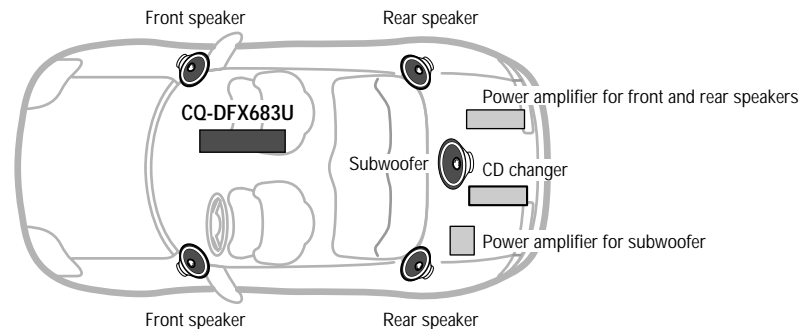CQ-DFX683U CQ-DF583U

You can play your MP3/WMA (Windows Media Audio) files as well as regular CDs.
With up to 10 to 12 times* the capacity of a conventional CD, a single MP3/WMA-encoded disc can keep you entertained throughout your entire journey.
*Depending on bit rate.

Example: CQ-DFX683U

Front speaker
Rear speaker
CQ-DFX683U
Power amplifier for front and rear speakers
Subwoofer
CD changer
Power amplifier for subwoofer
Front speaker
Rear speaker

Before Reading these Instructions

● This operating instruction manual is for 3 models; CQ-DFX683U, CQ-DF583U and CQ-DF203U. All illustrations throughout this manual represent model CQ-DFX683U unless otherwise specified. The following table describes the differences among 3 models.

Features \ Models	CQ-DFX683U	CQ-DF583U	CQ-DF203U
MP3/WMA data playback	Yes	Yes	None
CD changer control	Yes	Yes	None
Remote control unit	Remote control unit with ten number keys	Remote control unit with ten number keys	Remote control unit without ten number keys
Subwoofer output	Yes	None	None

This can only be controlled through the main unit.

This can only be controlled through the remote control unit.

Operations with neither mark can be performed either by the main unit or the remote control unit.

CQ-DFX683U Indicates features applicable to CQ-DFX683U.

CQ-DF583U Indicates features applicable to CQ-DF583U.

CQ-DF203U Indicates features applicable to CQ-DF203U.

Contents

WELCOME

8:00

FM

MP3/WMA

Accessories

- Remote control unit (CQ-DFX683U/DF583U) (1)
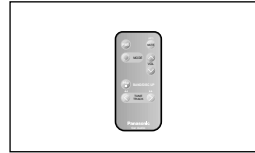
- Remote control unit (CQ-DF203U) (1)
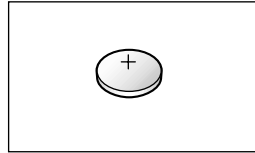
- Lithium battery (CR2025) (1)
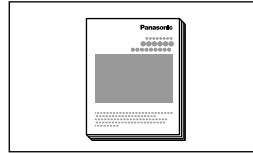
- Operating instructions (1)
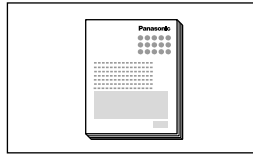
- Operating guide for Sirius (CQ-DFX683U/DF583U) (1)
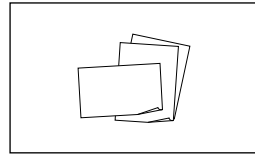
- Warranty card, etc.

- Installation hardware (screws, power connector, etc.) (page 46)

Control Reference Guide (remote control unit)

CQ-DF203U

Buttons of the remote control function in the same way as the controls on the main unit of the reference page.

Point the remote control unit at the sensor.

PWR
- Switches on/off the power. (page 19)

MODE
- Selects a source.
  (This has the same function as **[SOURCE]** on the main unit.)
  (page 19)

PRG ■ BAND/DISC UP
- Selects a band. (page 22)
- CD play pause (page 24)

(ATT) MUTE
- Muting or attenuation. (page 20)

VOL
- Adjusts the sound volume. (page 20)

TUNE TRACK
- Selects or seeks frequency. (page 22)
- Selects or searches track. (page 24)
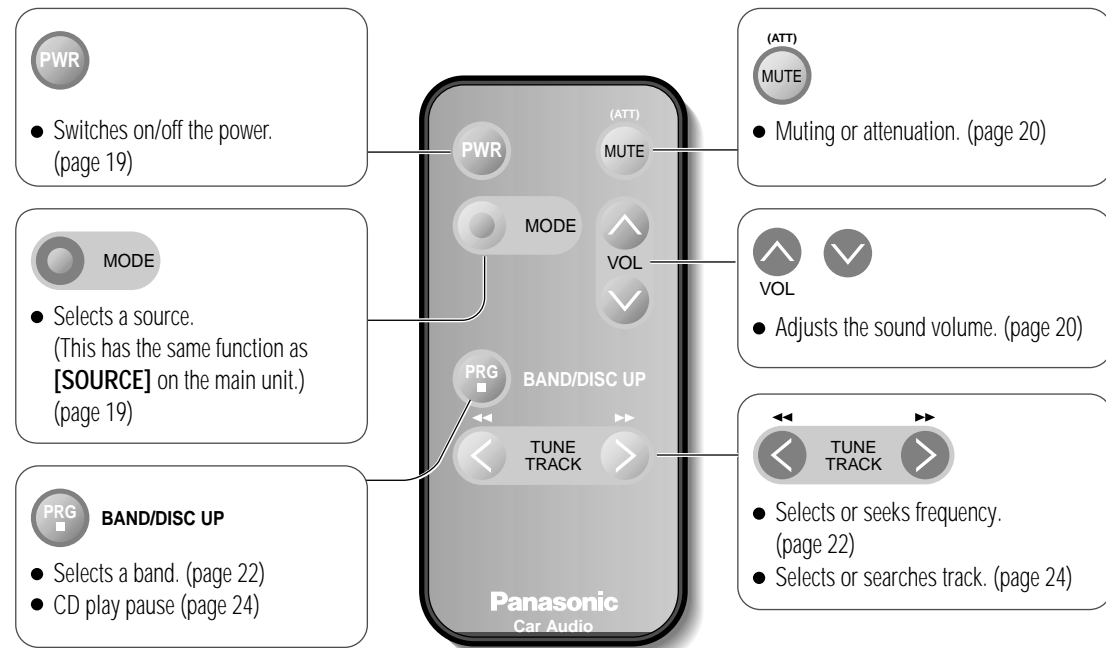
Control Reference Guide (remote control unit)

CQ-DFX683U CQ-DF583U

Buttons of the remote control function in the same way as the controls on the main unit of the reference page.

Point the remote control unit at the sensor.

POWER SOURCE
- Swirches on/off the power. (page 19)
- Selects a source. (page 19)

MUTE
- Muting or attenuation. (page 20)

0 to 9
- Memorizes broadcast stations **[1]** to **[6]**. (page 23)
- Selects preset number **[1]** to **[6]**. (page 23)
- Direct track selection. (page 25)
- Direct file/folder selection. (page 29)
- Direct disc selection. (page 33)

RAND 4
- Random play (pages 25, 28, 33)
- Folder random play (page 28)
- Disc random play (page 33)

SCAN 5
- Scan play (pages 25, 29, 33)
- Folder scan play (page 29)
- Disc scan play (page 33)

REP 6
- Repeat play (pages 25, 28, 33)
- Folder repeat play (page 28)
- Disc repeat play (page 33)

MENU SEL
- Enters the menu setting mode. (pages 34, 36)

VOL
- Adjusts the sound volume. (page 20)
- Selects or adjusts an operation or item. (page 35)

NUMBER #
- Enters the number input mode. (pages 25, 29, 33)

DISP
- Changes the display. (pages 21, 22, 25, 29)

BAND SET
- Selects a band. (page 22)
- Disc play pause (pages 24, 28)
- Direct track/file/folder/disc selection. (pages 25, 29, 33)
- Switches between changer 1 and 2. (page 32)

7 9
- Adjust the clock. (page 21)
- Selects or seeks the frequency. (page 22)
- Selects or searches the track/file. (pages 24, 27)

8 0
- Selects the folder. (page 28)
- Selects the disc. (page 32)
- Adjusts the setting item. (page 37)

Remote Control Unit Preparation

Battery Installation

① **Remove the battery holder.**
Pull the battery holder by the position B while pushing position A in the direction indicated by the arrow.

② **Install the battery on the battery holder.**

③ **Insert the battery holder back into its original position.**
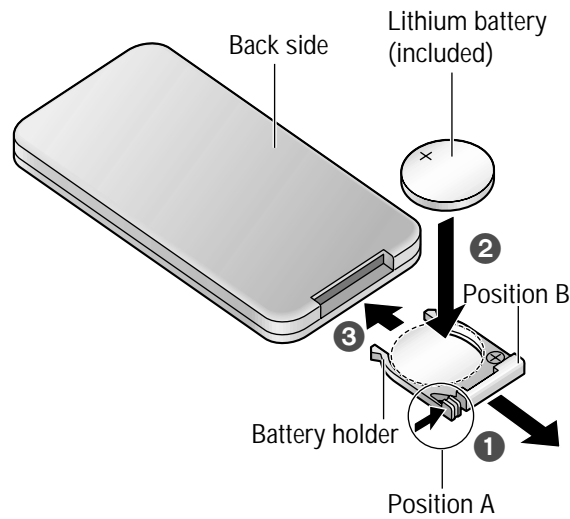
Battery Notes

● Battery type: Panasonic lithium battery (CR2025) (included)
● Battery life:　Approximately 6 months with normal use (at room temperature)

Caution:
● Improper use of batteries may cause overheating, an explosion or ignition, resulting in injury or a fire. Battery leakage may damage the unit.

● Remove and dispose of an old battery immediately.
● Do not disassemble or short the battery. Do not throw a battery into a fire.
● Keep batteries away from children to avoid the risk of accidents.
● Be careful to observe proper local disposal rules when you dispose of batteries.

Back side

Lithium battery (included)

Position B

Battery holder

Position A

General

① ## Power (PWR)
Turn your car's ignition key to ACC or ON position.

ON:　Press **[PWR]**.
OFF: **Press and hold [PWR]** again on the main unit for more than 1 second.
CQ-DFX683U　CQ-DF583U
Press and hold [POWER] again on the remote control unit for more than 2 seconds.
CQ-DF203U
Press **[PWR]** again on the remote control unit.

● After turning off the ignition key, a security message is displayed, and the panel removable alarm that reminds you to take the panel is activated.
(When security function is set to on, page 36)
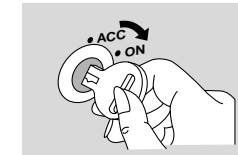
Note:
● When the power is switched on for the first time, a demonstration message appears on the display. **To cancel this display, press [DISP] (display).**

● To display the message again, press and hold **[SOURCE]** on the main unit for more than 4 seconds when the power is off.

HELLO

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

[DISP] (display)

② ## Source
Press **[SOURCE]** to change the source.

CQ-DFX683U　CQ-DF583U

Radio

FM1 87.9　(page 22)

CD player

01 0'02　(When a CD is in the player.)
or　(page 24)
MP3/WMA player

002-001　(When a MP3/WMA data disc is in the player.)
(page 27)

CD changer control

02 0'02:　(When a CD changer is connected.) (page 32)
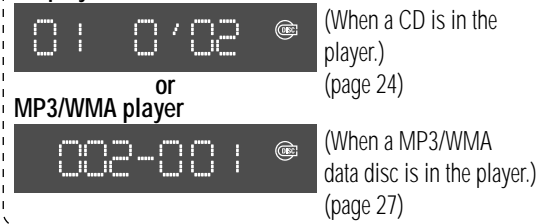
For details on the Sirius mode, refer to the separate operating guide for Sirius.

CQ-DF203U

Radio

FM1 87.9　(page 22)

CD player

01 0'02　(page 24)

The model CQ-DF203U does not support MP3/WMA and CD changer.

General (continued)

Volume

Turn [VOL].
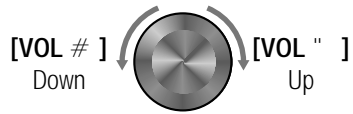
[VOL #] Down
[VOL "] Up

[VOL "]: Up
[VOL #]: Down

VOL 18

Setting range: 0 to 40 (default: 18)

Note:
● The sound level for each source is stored in memory. (For radio, one volume setting for AM, one volume setting for all FMs)

[%] [$] (hour/minute)

MP3/WMA Panasonic CQ-DFX683U MOSFET 50W×4 OPEN

ST
FM1 87.9

BAND
APM

DISP

CD RECEIVER WITH CHANGER CONTROL
DISC/FOLDER   SCROLL   RANDOM   SCAN   REPEAT
1   2   3   4   5   6   SIRIUS READY

MXE

Muting or Attenuation

ON: Press [MUTE].
OFF: Press [MUTE] again.

Decreasing volume range is adjustable by setting. (page 34)

MUTE

No sound.
MUTE lights.

ATT

Decrease the volume by 10 steps.
MUTE lights during attenuation as well.

S·HDB (Super High Definition Bass)

With music genres like rock music, the bass-sound will be more powerful. Press [S·HDB].

OFF

S·HDB is non-active. (default)

TIGHT
S·HDB

The bass sounds of the speakers are moderately emphasized. S·HDB lights.
CQ-DFX683U
(The sounds of the subwoofer can be heard clearly.)

BOOM
S·HDB

The bass sounds of the speakers are strongly emphasized. S·HDB lights.
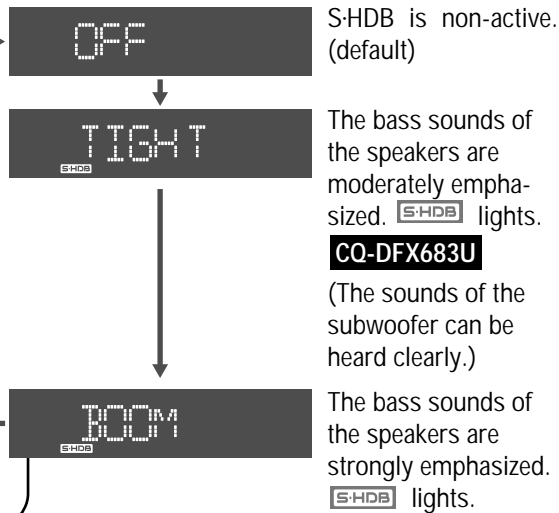
Level Meter

CQ-DFX683U CQ-DF583U

Press [LEVEL].

PATTERN1   (Default)
↓
PATTERN2
↓
PATTERN3
↓
PATTERN4
↓
OFF

CQ-DF203U
(Function Settings: page 36)
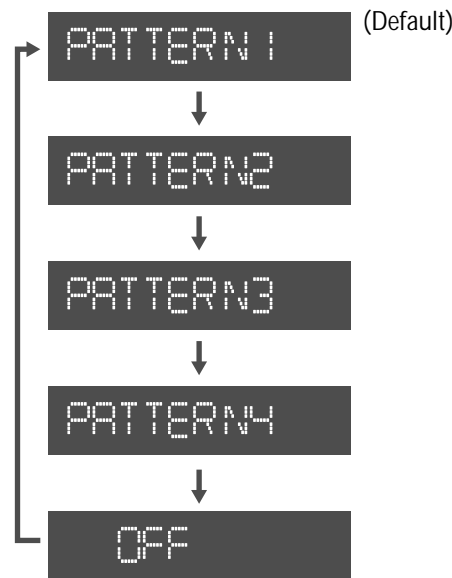
[DISP] (display)

Clock Set

The 12-hour system is used for the clock.

❶ Press [DISP] (display).

ADJUST
Clock display

❷ Press and hold [DISP] (display) again for more than 2 seconds.

FM1 12:00
Hours blink

Hours:
❸ Press [%] or [$].

FM1 10:00
Hours set

❹ Press [DISP] (display).

FM1 10:00
Minutes blink

Minutes:
❺ Press [%] or [$].

FM1 10:10
Minutes set

❻ Press [DISP] (display).

FM1 10:10
End

Note:

ADJUST
Displays before adjusting the clock.

● Press and hold [%] or [$] to change numbers rapidly.

Time Reset

❶ Press and hold [DISP] (display) for more than 2 seconds.
❷ Repeat steps ❸ to ❻.

Display Change

Press [DISP] (display).

When the power is off:

10:10
Clock display

↕

Display off

Radio

1 Radio Mode

Press **[SOURCE]** to change to the radio mode.

Radio mode display

FM stereo indicator

Band   Frequency

[%] [$] (tuning)

[BAND]
[APM]
(auto preset memory)

[D·M] (direct memory)

[1] to **[6]**
(preset station)

[DISP] (display)

2 Band

Press **[BAND]**.

3 Tuning

[$]: Up
[%]: Down
Press and hold **[%]** or **[$]** for more than 0.5 seconds, then release.
Seeking will start.

Display Change

Press **[DISP]** (display).

Radio mode display (default)

Clock display
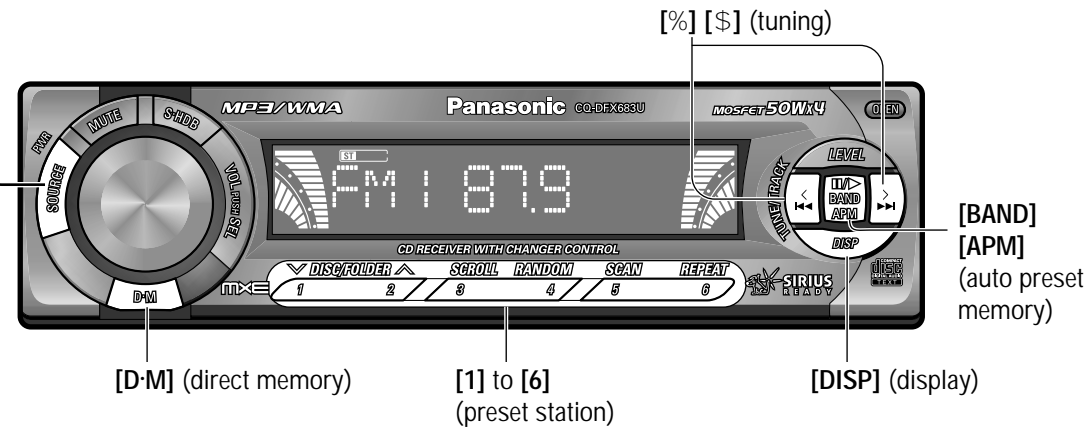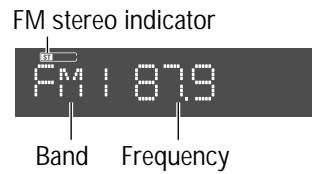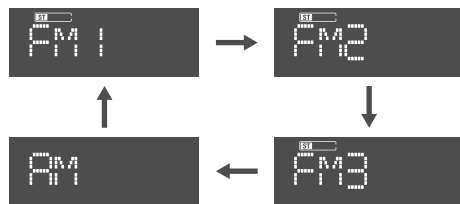
Direct Memory (D·M)

Your favorite radio station can be memorized in **[D·M]** (direct memory).

Default: FM 87.9 MHz

■ **Memorize**

1 Select a band and frequency.

2 Press and hold **[D·M]** for more than 2 seconds.

Note:
● Existing saved station is overwritten with new station after this procedure above.

■ **Recalling the Direct Memory**

Press **[D·M]**.

Press **[D·M]** again to cancel.

Note:
● You can recall the direct memory even when the power is off.

Caution:
● To ensure safety, never attempt to preset stations while you are driving.

Preset Station Setting

● Up to 6 stations each can be saved in the FM1, FM2, FM3 and AM preset station memories.
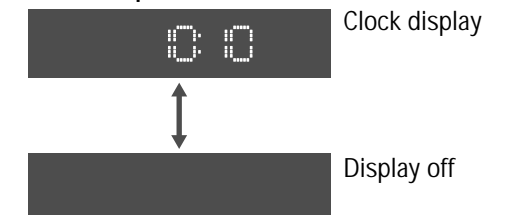
Manual Preset Memory

Manually save a station in the preset memory.

1 Select a band and frequency. (previous page)

2 Press and hold **[1]** to **[6]** for more than 2 seconds to memorize.
● The display blinks once, and a receiving station is saved in the memory.
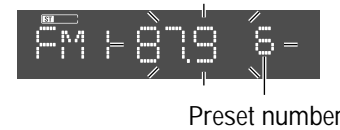
Preset number

CQ-DFX683U   CQ-DF583U

1 Select a band and frequency. (previous page)

2 Press and hold **[1]** to **[6]** for more than 2 seconds to memorize.

Auto Preset Memory (APM)

Automatically save stations with good reception in the preset memory.

1 Select a band. (previous page)

2 Press and hold **[APM]** for more than 2 seconds.

● The 6 stations with good reception will be automatically saved in the memory under preset number **1** to **6**.
● Once set, the preset stations are sequentially scanned for 5 seconds each. (scanning)
● To stop the scanning, press **[1]** to **[6]**.

Note:
● Existing saved stations are overwritten with new stations after this procedure above.

Preset Station Calling

1 Select a band. (previous page)

2 Press **[1]** to **[6]**.

CQ-DFX683U   CQ-DF583U

1 Select a band. (previous page)

2 Press **[1]** to **[6]**.

CD Player

Caution:
- **Available discs:**
  - **Disc size: 5″ (12 cm) only**
  - **CD-DA data recorded CD-R and CD-RW discs**
- **3″ (8 cm) CD is not available for this unit, so do not insert it absolutely.**
- Before loading a disc, check to make sure that a disc is not already loaded.
- Refer to page 45 about notes on CD-Rs/RWs.

- **Do not**
  - **use irregularly shaped discs.**
  - push the front panel down or place objects on it while it is open.
  - use discs that have a seal or label attached.
  - pinch your finger or hand in the front panel.
  - insert foreign matter into the disc slot.
  - watch the scroll display while driving a car. (page 25) CQ-DFX683U CQ-DF583U

Note:
- The power will be turned on automatically when a disc is loaded.
- Be sure to close the front panel while CD playback.
- The disc/track title can be displayed. CQ-DFX683U CQ-DF583U

Listening to a CD

1 Open the front panel.
Press **[OPEN]**.
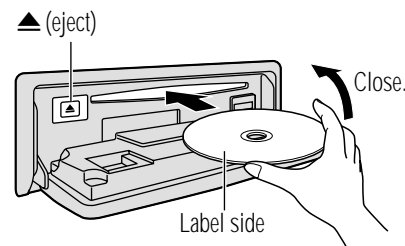
2 Insert the disc.
Playback starts automatically.

Track number   Playing time

- **Do not insert a disc when this indicator lights.**
- Lights when the disc is loaded.

When CD is in the player
Press **[SOURCE]** to change to CD player mode.

3 Stop and eject the disc.
Press **[OPEN]** and **[⏏]** (eject).

▲ (eject)

Close.

Label side

Close the front panel manually.

Track Selection

[▶▶|]: Next track.
[|◀◀]: Beginning of the current track.
For the previous track, press twice.

Fast Forward/Fast Reverse

Press and hold.
[▶▶|] (▶▶): Fast forward.
[|◀◀] (◀◀): Fast reverse.
Release to resume the regular play.

Pause

Press **[‖ /▶]**.
Press **[‖ /▶]** again to cancel.

PAUSE

CQ-DFX683U   CQ-DF583U

[|◀◀ ▶▶|] (track)   [OPEN]

[‖ /▶] (pause)

[SCROLL] [RANDOM] [SCAN] [REPEAT]   [DISP] (display)

Repeat Play

Press **[REPEAT]**. REP lights.

REP ON

Press **[REPEAT]** again to cancel.

Random Play

Press **[RANDOM]**. RAND lights.
All the available tracks play in a random sequence.

02 0'02

Press **[RANDOM]** again to cancel.

Scan Play

Press **[SCAN]**.
The first 10 seconds of each track plays in sequence.

02 0'02

Press **[SCAN]** again to cancel.

Direct Track Selection

Example: track number 10

1 Press **[#]**.

TRACK __

2 Press **[1] [0]**.

TRACK 10

3 Press **[BAND]**.

Note:
- Press **[DISP]** (display) to return to the regular mode.

Display Change

Press **[DISP]** (display).

01 0'02 — Track number/playing time (default)

D-TITLE — Disc title (scroll)

T-TITLE — Track title (scroll)

CD 0:0 — Clock display
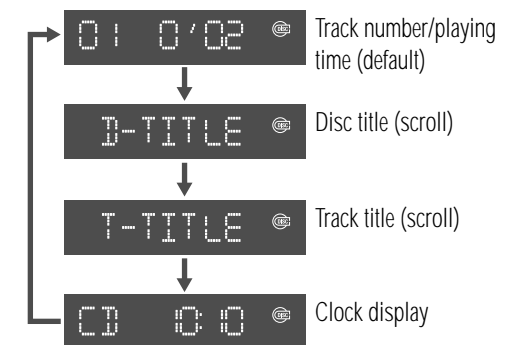
Note:

NO TITLE — Displays when there is no title.

- The display shows title when a disc with CD text data is loaded. (Up to 128 letters can be displayed when scrolling. Some letters are not serviceable.)

Text Scroll

Press **[SCROLL]**.

When the display is set to show disc/track title, this re-scroll the text.

CD Player (continued)

MP3/WMA Player

CQ-DFX683U CQ-DF583U

CQ-DF203U

Scan Play

Press and hold **[SCAN]** for more than 2 seconds. The first 10 seconds of each track plays in sequence.

Press and hold **[SCAN]** again for more than 2 seconds to cancel.

Repeat Play

Press **[REPEAT]**. REP lights.

Press **[REPEAT]** again to cancel.

Random Play

Press and hold **[RANDOM]** for more than 2 seconds. RAND lights.
All the available tracks play in a random sequence.

Press and hold **[RANDOM]** again for more than 2 seconds to cancel.

[|◄◄ ►►|] (track)   **[OPEN]**

[ll/►] (pause)
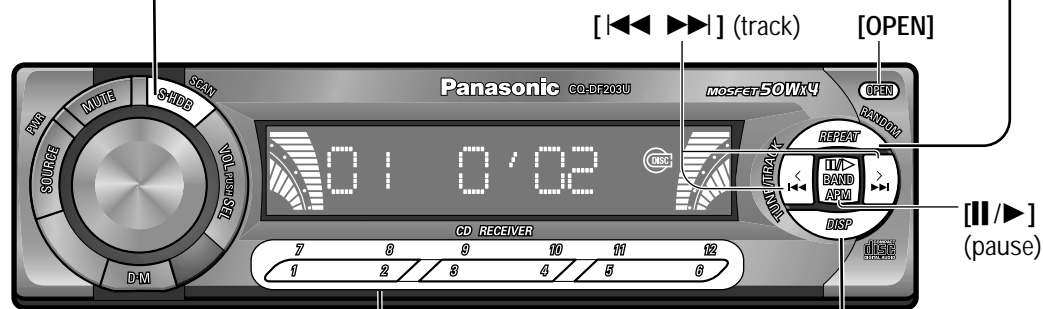
Direct Track Selection

Track number: 1 to 6

Press a track number button from **[1]** to **[6]**.

Track number: 7 to 12

Press and hold a track number button from **[7]** to **[12]** for more than 2 seconds.

Display Change

Press **[DISP]** (display).

Track number/ playing time (default)

Clock display

Caution:
- **Available discs:**
  - **Disc size: 5″ (12 cm) only**
  - **MP3/WMA data recorded CD media (CD-ROM, CD-R, CD-RW)**
- **3″ (8 cm) CD is not available for this unit, so do not insert it absolutely.**
- Before loading a disc, check to make sure that a disc is not already loaded.
- Refer to page 30 about notes on MP3/WMA.
- Refer to page 45 about notes on CD-Rs/RWs.

- **Do not**
  - **use irregularly shaped discs.**
  - push the front panel down or place objects on it while it is open.
  - use discs that have a seal or label attached.
  - pinch your finger or hand in the front panel.
  - insert foreign matter into the disc slot.
  - watch the scroll display while driving a car. (page 29) **CQ-DFX683U** CQ-DF583U

## Listening to MP3/WMA

1 **Open the front panel.**
Press **[OPEN]**.

2 **Insert the disc.**
The display changes as shown below. Playback starts automatically.

READING

Data reading.

MP3/WMA player

MP3/WMA

002-001

Folder number

File number

- **Do not insert a disc when this indicator lights.**
- Lights when the disc is loaded.

When CD is in the player
Press **[SOURCE]** to change to MP3/WMA player mode.

3 **Stop and eject the disc.**
Press **[OPEN]** and **[▲]** (eject).

▲ (eject)

Close.

Label side
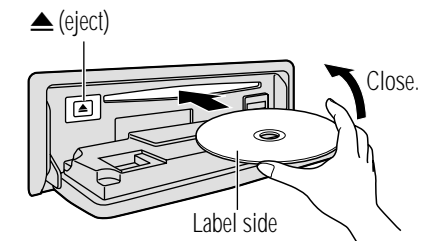
Close the front panel manually.

File Selection

[►►|]: Next file.
[|◄◄]: Beginning of the current file.
For the previous file, press twice.

Fast Forward/Fast Reverse

Press and hold.
[►►|] (►►): Fast forward.
[|◄◄] (◄◄): Fast reverse.
Release to resume the regular play.

MP3/WMA Player (continued)

Note:
- The power will be turned on automatically when a disc is loaded.
- Be sure to close the front panel while MP3/WMA playback.
- The file/folder name can be displayed. (page 29)

- It may take some time to distinguish CD-DA and MP3/WMA before playback starts.
- If you record too many folders and files onto a disc, it may take some time before playback starts.

Folder Selection

["▲]: Next folder.
[#]: Previous folder.

Pause

Press [II/▶].
Press [II/▶] again to cancel.

PAUSE

[OPEN]

[SCROLL] [RANDOM] [SCAN] [REPEAT] [DISP] (display)

Repeat Play

Press **[REPEAT]**. REP lights.

REP ON

Press **[REPEAT]** again to cancel.

Folder Repeat Play

Press and hold **[REPEAT]** for more than 2 seconds. REP blinks.
Repeat the current folder.

REP ON

Press and hold **[REPEAT]** again for more than 2 seconds to cancel.

Random Play

Press **[RANDOM]**. RAND lights.
All the available files on all folders play in a random sequence.

002-001

Press **[RANDOM]** again to cancel.

Folder Random Play

Press and hold **[RANDOM]** for more than 2 seconds. RAND blinks.
All the files on the current folder play in a random sequence.

002-001

Press and hold **[RANDOM]** again for more than 2 seconds to cancel.

CQ-DFX683U CQ-DF583U

Scan Play

Press **[SCAN]**.
The first 10 seconds of each file on all folder plays in sequence.

002-002

Press **[SCAN]** again to cancel.

Folder Scan Play

Press and hold **[SCAN]** for more than 2 seconds.
From the next folder, the first 10 seconds of the first file on each folder plays in sequence.

002-001

Press and hold **[SCAN]** again for more than 2 seconds to cancel.

Display Change

Press **[DISP]** (display).

001-002	Folder/file number (default)
2'30	File playing time
FOLDER	Folder name (scroll)
FILE	File name (scroll)
MP3 0:0	Clock display

(Example: MP3)
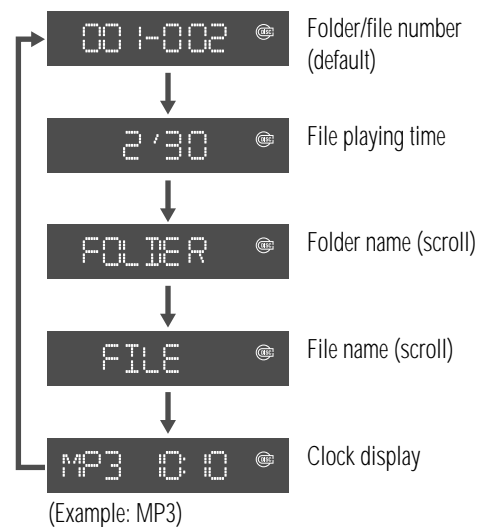
Note:

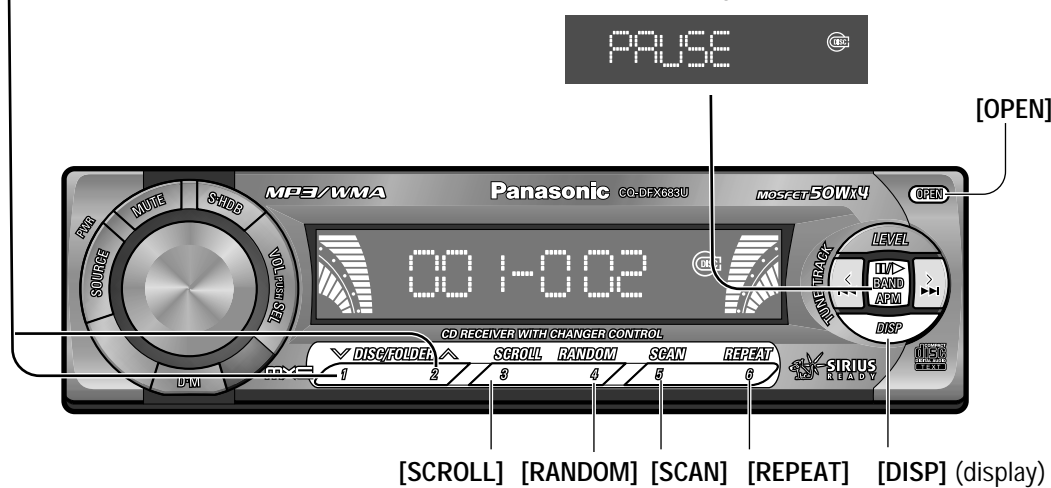NO NAME — Displays when there is no file/folder name.

- The bit rate value changes when variable bit rate (VBR) data is played.
- When playing a Tree 1 file, the folder name is displayed with the word "ROOT" (root folder).
- Folder and file names can be displayed. Displayable character number varies with file systems.
- Characters that the player cannot display are shown as an asterisk.

Direct File Selection

Example: file number 10

❶ Press **[#]** .

FILE _ _ _

❷ Press **[1] [0]**.

❸ Press **[BAND]**.

FILE _ 10

Direct Folder Selection

Example: folder number 10

❶ Press **[#]** twice.

FLDR _ _ _

❷ Press **[1] [0]**.

❸ Press **[BAND]**.

FLDR _ 10

Note:
- Press **[DISP]** (display) to return to the regular mode.
- Operation returns to the start of the disc when a folder with no MP3 or WMA format files is selected.

Text Scroll

Press **[SCROLL]**.

When the display is set to show folder/file name and ID3/WMA tag, this re-scroll the text.

ID3/WMA Tag Setting

Press and hold **[SCROLL]** for more than 2 seconds.

TAG ON

TAG OFF (Default)

When a folder name is displayed:
TAG ON: The album title is displayed.
TAG OFF: The folder name is displayed.

When a file name is displayed:
TAG ON: The title/artist name is displayed.
TAG OFF: The file name is displayed.

MP3/WMA Player (continued)

Notes on MP3/WMA

❑ What is MP3/WMA?

MP3 (MPEG audio layer 3) and WMA (Windows Media™ Audio) are the compression formats of digital audio. The former is developed by MPEG (Motion Picture Experts Group), and the latter is developed by Microsoft Corporation. Using these compression formats, you can record the contents of about 10 music CDs on a single CD media. (This figures refer to data recorded on a 650 MB CD-R or CD-RW at a fixed bit rate of 128 kbps and a sampling frequency of 44.1 kHz.)

Note:
● MP3/WMA encoding and writing software are not supplied with this unit.
● CD writing software is not supplied with this unit.

❑ Points to remember when making MP3/WMA files

Common
● High bit rate and high sampling frequency are recommended for high quality sounds.
● Selecting VBR (Variable Bit Rate) is not recommended because playing time is not displayed properly and sound may be skipped.
● The playback sound quality differs depending on the encoding circumstances. For details, refer to the user manual of your own encoding software and writing software.

MP3
● It is recommended to set the bit rate to "128 kbps or more" and "fixed".

WMA
● It is recommended to set the bit rate to "64 kbps or more" and "fixed".
● Do not set the copy protect attribute on the WMA file to enable this unit to playback.

Caution:
● Never assign the ".mp3", or ".wma" file name extension to a file that is not in the MP3/WMA format. This may not only produce noise from the speaker damage, but also damage your hearing.

❑ Display Information

■ Displayed items

CD-TEXT
● Disc title
● Track title

MP3/WMA
● Folder name
● File name

MP3 (ID3 tag)
● Album title
● Artist name
● Title name

WMA (WMA tag)
● Album title
● Artist name
● Title name

■ Displayable characters
● Displayable length of file name/folder name: within 128 characters
● Name files and folders in accordance with the standard of each file system. Refer to the instructions of writing software for details.
● ASCII character set and special characters in each language can be displayed.

ASCII character set
A to Z, a to z, digits 0 to 9, and the following symbols:
(space) ! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` { | } ~

Special characters
À Á Â Ã Ä Å à á â ã å Ä ä
Ò Ó Ô Õ Ö ò ó ô õ ö
Ù Ú Û Ü ù ú û ü

Note:
● With some software in which MP3/WMA format files have been encoded, the character information may not be displayed properly.
● Undisplayable characters and symbols will be converted into an asterisk.

❑ Recording MP3/WMA files on a CD-media
● **You are recommended to minimize the chances of making a disc that contains both CD-DA files and MP3/WMA files.**
● **If CD-DA files are on the same disc as MP3 or WMA files, the songs may not play in the intended order, or some songs may not play at all.**
● **When storing MP3 data and WMA data on the same disc, use different folders for each data.**
● Do not record files other than MP3/WMA files and unnecessary folder on a disc.
● The name of MP3/WMA file should be added by rules as shown in the following descriptions and also comply with the rules of each file system.
● You may encounter trouble in playing MP3/WMA files or displaying the information of MP3/WMA files recorded with certain writing software or CD recorders.
● The file extension ".mp3" or ".wma" should be assigned to each file depending on the file format.
● This unit does not have the play list function.
● Although Multi-session recording is supported, the use of Disc-at-Once is recommended.

Supported file systems
ISO 9660 Level 1/Level 2, Apple Extension to ISO 9660, Joliet, Romeo

Note:
● Apple HFS, UDF 1.50, Mix CD (CD Extra) is not supported.

Compression formats (Recommend: "Points to remember when making MP3/WMA files" on the previous page)

Compression method	Bit rate	VBR	Sampling frequency
MPEG 1 audio layer 3 (MP3)	32 k−320 kbps	Yes	32, 44.1, 48 kHz
MPEG 2 audio layer 3 (MP3)	8 k−160 kbps	Yes	16, 22.05, 24 kHz
Windows Medio Audio Ver. 2, Ver. 8	64 k−192 kbps	No	32, 44.1, 48 kHz

❑ Folder selection order/file playback order (example)

Note:
● This unit counts the number of folders irrespective of the presence or absence of MP3/WMA file.
● If the selected folder does not contain any MP3/WMA files, the nearest MP3/WMA files in the order of playback will be played.
● Playback order may be different from other MP3/WMA players even if the same disc is used.
● "ROOT" appears when displaying the root folder name.

Maximum number of files/folders:
● Maximum number of files/folders: 999 (files+folders)
● Maximum number of files in one folder: 255
● Maximum depth of trees: 8
● Maximum number of folders: 255 (Root folder is included.)

Root folder (root directory)

Folder selection
In the order 1 to 6

File selection
In the order ♪ to ♪

Tree 1   Tree 2   Tree 3 ......Tree 8 (Max.)
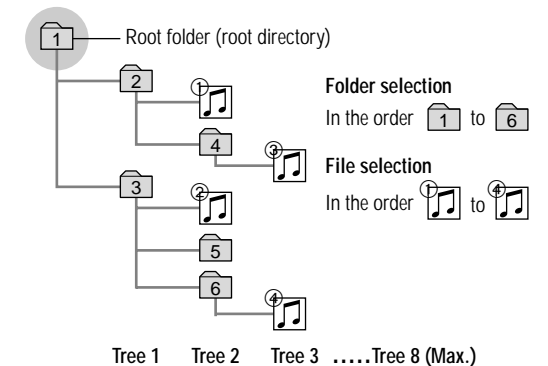
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Designed for
Windows
Media™

Copyright
It is prohibited by copyright laws to copy, distribute and deliver copyrighted materials such as music without the approval of copyright holder except enjoying yourself personally.

No warranty
Above description complies with our investigations as of December 2002. It has no warranty for reproducibility and displayability of MP3/WMA.

CD Changer Control

CD changer functions are designed for optional Panasonic CD changer unit.

Preparation:
● Connect the CD changer, and load a magazine (CDs).

Note:
● The power will be turned on automatically when a magazine is loaded.

● The following functions are not supported during playback through the CD changer:
  · CD-ROM, CD-RW playback
  · CD text display
  · MP3/WMA playback.
  · Pause
● In principle, CD-R disc play is supported but it does not follow that it will be possible to play all such discs properly.

1 CD Changer Mode

(When a CD changer is connected and a magazine is in the changer.)

Press **[SOURCE]** to change to CD changer mode.
Playback starts automatically.

Note:
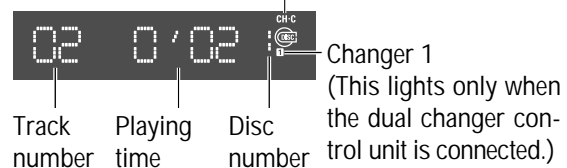● Load a magazine with CDs.

    NO DISC

● Magazine is ejected in the CD changer mode.

    CD EJECT

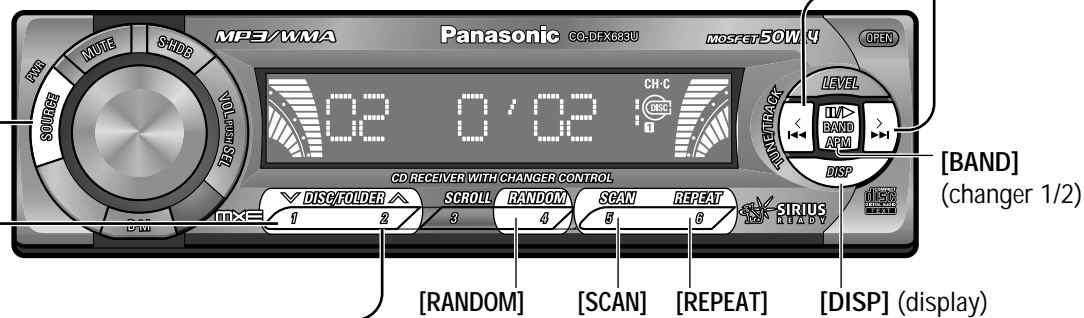### CD changer mode display

Lights when the changer is connected.

    02 0'02

Track number | Playing time | Disc number | Changer 1 (This lights only when the dual changer control unit is connected.)

Fast Forward/Fast Reverse

Press and hold.
[▶▶|] (▶▶): Fast forward.
[|◀◀] (◀◀): Fast reverse.
Release to resume the regular play.

[BAND] (changer 1/2)

[RANDOM] **[SCAN]** **[REPEAT]** **[DISP]** (display)

2 Disc Selection

["]: Next disc.
[#]: Previous disc.

3 Track Selection

[▶▶|]: Next track.
[|◀◀]: Beginning of the current track.
For the previous track, press twice.

Using Two Changers (Dual Changers)

Use the dual changer control unit (CA-CD55; option) to connect the 2 CD changers to this unit. (page 55)

Press **[BAND]**.
The selected changer number (either **1** or **2**) lights.

Note:
● For details on the Sirius receiver connections, refer to the separate operating guide for Sirius.

Repeat Play

Press **[REPEAT]**. REP lights.
Repeat the current track.

    REP ON

Press **[REPEAT]** again to cancel.

Disc Repeat Play

Press and hold **[REPEAT]** for more than 2 seconds.
REP blinks.
Repeat the current disc.

    REP ON

Press and hold **[REPEAT]** again for more than 2 seconds to cancel.

Random Play

Press **[RANDOM]**. RAND lights.
All the available tracks on all discs in the magazine play in a random sequence.

    02 0'02

Press **[RANDOM]** again to cancel.

Disc Random Play

Press and hold **[RANDOM]** for more than 2 seconds. RAND blinks.
All the available tracks on the current disc play in a random sequence.

    02 0'02

Press and hold **[RANDOM]** again for more than 2 seconds to cancel.

Scan Play

Press **[SCAN]**.
The first 10 seconds of each track on all discs plays in sequence.

    02 0'02

Press **[SCAN]** again to cancel.

Disc Scan Play

Press and hold **[SCAN]** for more than 2 seconds.
From the next disc, the first 10 seconds of the first track of all the discs plays in sequence.

    01 0'02

Press and hold **[SCAN]** for more than 2 seconds again to cancel.

Display Change

Press **[DISP]** (display).

    02 0'01   Track number/playing time/disc number (default)

    ↕

    CD 0:10   Clock display

Direct Disc Selection

Example: disc number 10

❶ Press **[#]** .

    DISC __

❷ Press **[1] [0]**.

❸ Press **[BAND]**.

    DISC 10

Note:
● Press **[DISP]** (display) to return to the regular mode.

Audio Settings
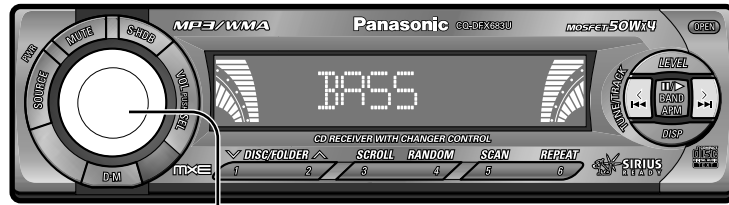
1 Press **[SEL]**. (Push.)
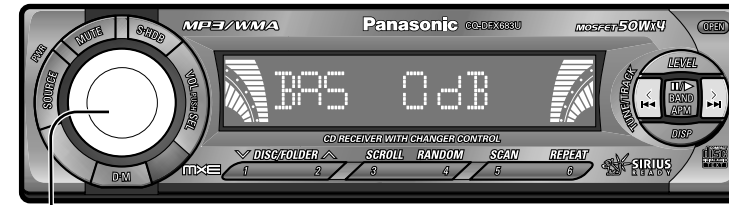
2 Turn **[VOL]**.
(Press **[VOL** ¨ **]** or **[VOL** # **]** on the remote control unit.)

[VOL #]　[VOL ¨]

FM1 879

Volume

Default: 18
Setting range: 0 to 40

Select

VOL 18

VOL 18

[VOL ¨ **]:** Increases the volume.
[VOL # **]:** Decreases the volume.

Bass and Treble

You can adjust the bass and treble sound.

Default: BAS (bass) 0 dB
　　　　 TRE (treble) 0 dB
Setting range: −12 dB to +12 dB (by 2 dB)

Select

BASS

Select

TREBLE

BAS 0dB

[VOL ¨ **]:** Increases the bass.
[VOL # **]:** Decreases the bass.

TRE 0dB

[VOL ¨ **]:** Increases the treble.
[VOL # **]:** Decreases the treble.

Balance and Fader

You can adjust the sound balance among the front, rear, right and left speakers.

Default: BAL (balance) CNT (center)
　　　　 FAD (fader) CNT (center)
Setting range: 15 levels each

Select

BALANCE

Select

FADER

BAL CNT

[VOL ¨ **]:** Right enhanced.
[VOL # **]:** Left enhanced.

FAD CNT

[VOL ¨ **]:** Front enhanced.
[VOL # **]:** Rear enhanced.

Subwoofer Level CQ-DFX683U

You can change the subwoofer volume level.

Default: 0 dB
Setting range: MUTE (subwoofer mute)
　　　　 −6 dB to +6 dB (by 2 dB)

Select

SUB-W

LEV 0dB

[VOL ¨ **]:** Increases the level.
[VOL # **]:** Decreases the level.

Muting or Attenuation

You can select MUTE or ATTENUATION when **[MUTE]** is pressed.

Default: MUTE

Select

MUTE KEY

KEY ATT

[VOL ¨ **]:** Decrease the volume by 10 steps. (attenuation)

KEY MUTE

[VOL # **]:** No sound.

Note:
● Press **[DISP]** (display) to return to the regular mode.
● If no operation takes place for more than 7 seconds in audio setting, the display returns to the regular mode.

Function Settings
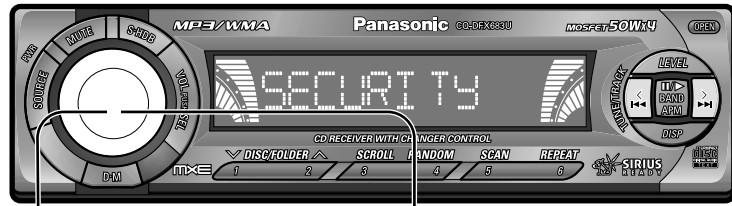
❶ Press and hold **[SEL]** for more than 2 seconds.

❷ Press **[SEL]**.

(Push.)
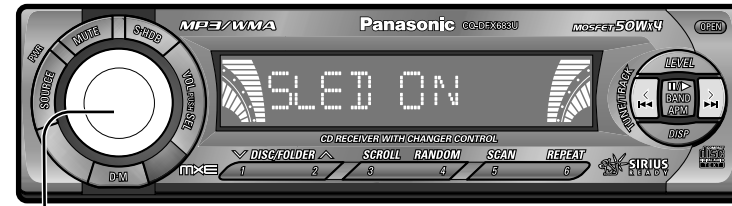
❸ Turn **[VOL]**.

CQ-DFX683U CQ-DF583U

(Press **["]** or **[#]** on the remote control unit.)

[#]   ["]

Security Function

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

Default: SLED ON

Excluding Sirius from Source Selection

CQ-DFX683U
CQ-DF583U

Default: SET OFF

(Press and hold.)

⏳ 2 sec.

Level Meter

CQ-DF203U

Default: PATTERN 1
Setting range: PATTERN 1 to 4, OFF

Select

SECURITY

Select

SIRIUS

Select

PATTERN

Security Function

SLED ON -   **["]:** Security function is active.

SLED OFF -   **[#]:** Security function is non-active.

SET ON -   **["]:** Sirius control mode is selectable as a source.

SET OFF -   **[#]:** Sirius control mode is not selectable as a source even if the Sirius receiver is connected.

PATTERN4 -   Pattern 4

PATTERN3 -   Pattern 3

[#]   PATTERN2 -   ["]   Pattern 2

PATTERN1 -   Pattern 1

- OFF -   Pattern off

Security Function

When the key in the ignition is turned OFF.
- Security message will be displayed.

PANEL ▼

- The panel removable alarm will be active. (page 51)

When the removable face plate is removed.
- The security indicator blinks. (page 51)
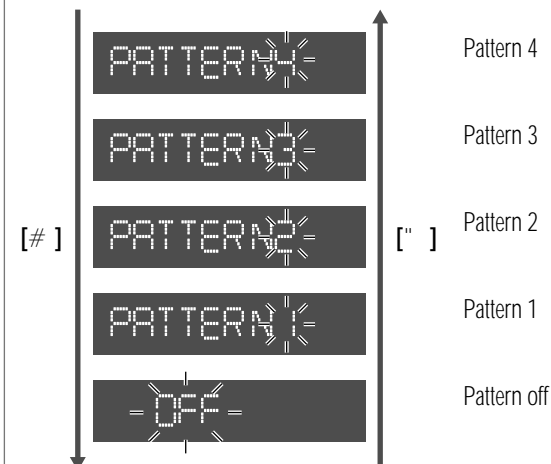
Note:
- For details on the "Excluding Sirius from Source Selection" function, refer to the separate operating guide for Sirius.
- Press **[DISP]** (display) to return to the regular mode.
- If no operation takes place for more than 7 seconds in function setting, the display returns to the regular mode.

Troubleshooting

Preliminary Steps

Check and take steps as described in the tables below.

If You Suspect Something Wrong

Immediately switch the power off.

Disconnect the power connector and check that there is neither smoke nor heat from the unit before asking for repairs. Never try to repair the unit yourself because it is dangerous to do so.

> **Caution:**
> ● Do not use the unit if it malfunctions or is something wrong.
> ● Do not use the unit in abnormal condition, for example, without sound, or with smoke or foul smell, which can cause ignition or electric shock. Immediately stop using it and call the store where you purchased it.

Troubleshooting Tips

❒ Common

Trouble	Cause/Step
No power.	Car's engine switch is not on. ➡**Turn your car's ignition switch to ACC or ON.**
	Cables are not correctly connected. ➡**Connect cables correctly.** ➡**Connect the battery cable to the terminal that is always active.** ➡**Connect the accessory cable to your car's ACC source.** ➡**Connect the grounding wire to a metal part of the car.**
	Fuse is burnt out. ➡**Call the store where you purchased the unit, or your nearest Servicenter (see the attached sheet) and ask for fuse replacement.**
No sound.	Mute is set to ON. ➡**Set it to OFF.**
	Cables are not correctly connected. ➡**Connect cables correctly.**
	Condensation (dew). ➡**Wait for a while before use.**
Noise.	A mobile phone is used near the unit. ➡**Keep the mobile phone away from the unit.**
	The unit's grounding wire is not connected securely. ➡**Check the metal areas of the car body (chassis), and connect the grounding wire more securely.**
Audio sound is output but the display shows demonstration message.	Demonstration mode is ON. ➡**Press [DISP] (display) to cancel demonstration mode.**

❒ Radio

Trouble	Cause/Step
Too much noise in FM stereo and monaural (AM) broadcasts.	Station is too far, or signals are too weak. ➡**Select other stations of higher signal level.**
	The motor antenna relay control lead is not connected correctly. ➡**If there is a motor antenna in the car, connect the antenna control lead to the motor antenna lead that is installed in the car correctly.**
	The ground connection of the radio antenna is not secure enough. ➡**Check the ground connection of the mounted base part of the antenna, and tighten up the screw.**
	The radio antenna is not extended enough. ➡**Fully extend the radio antenna.**
Preset station is reset.	Battery cable is not correctly connected. ➡**Connect the battery cable to the terminal that is always active.**

❒ CD/MP3/WMA `CQ-DFX683U` `CQ-DF583U`
CD `CQ-DF203U`

Trouble	Cause/Step
Disc is in the CD compartment but no sound is made, or disc is ejected automatically.	Disc is upside down. ➡**Place disc in the correct direction with the label side up.**
	● Disc is dirty. ● Disc has scratches. ➡**Clean disc, referring to the section on "Notes on CD/CD Media (CD-ROM, CD-R, CD-RW)". (page 45)**
	`CQ-DFX683U` `CQ-DF583U` A disc that has data other than CD-DA or MP3/WMA type is played. ➡**Discs that have CD-DA or MP3/WMA type data should be used.**
	`CQ-DF203U` A disc that has data other than CD-DA type is played. ➡**Discs that have CD-DA type data should be used.**
	➡**The unit may not successfully play back a CD-R/RW that is made in combination of writing software, a CD recorder (CD-R/RW drive) and a disc which are incompatible one another. Refer to instructions for the concerned devices for details.**

Troubleshooting (continued)

❒ CD/MP3/WMA `CQ-DFX683U` `CQ-DF583U` (continued)
　　CD `CQ-DF203U` (continued)

Trouble	Cause/Step
Sound skips, bad sound quality. (e.g. caused by noise)	● Disc is dirty. ● Disc has scratches. ➡**Clean disc, referring to the section on "Notes on CD/CD Media (CD-ROM, CD-R, CD-RW)". (page 45)** ➡**The unit may not successfully play back a CD-R/RW that is made in combination of writing software, a CD recorder (CD-R/RW drive) and a disc which are incompatible one another. Refer to instructions for the concerned devices for details.**
Sound skips due to vibration.	Mounting angle is over 30°. ➡**Adjust mounting angle to less than 30°.** Instable mounting. ➡**Mount the unit securely with the mounting parts, referring to the section on installation.**
Disc is not ejected.	● Disc is defective. ● Mechanical trouble. ➡**Press [OPEN] to open the panel and press [▲] (eject). If normal operation is not restored, call the store where you purchased the unit or the nearest Servicenter to ask for repairs.**

`CQ-DFX683U`
`CQ-DF583U`
CD text is not displayed normally.
	● Disc is dirty.
	● Disc has scratches.
	➡**Clean disc, referring to the section on "Notes on CD/CD Media (CD-ROM, CD-R, CD-RW)". (page 45)**

Time is counted but no sound comes out.	`CQ-DFX683U` `CQ-DF583U`
	An attempt has been made to play a mixed disc.
	➡**In the case of mixed discs, MP3 files may be played with their sound muted.**
	
	`CQ-DF203U`
	An attempt has been made to play a regular CD-ROM disc.
	➡**Insert a CD-DA disc.**

❒ MP3/WMA `CQ-DFX683U` `CQ-DF583U`

Trouble	Cause/Step
No playback.	The disc does not conform to any of the file systems supported by this player. ➡**Insert a disc that conforms to the file systems (ISO 9660 Level 1, Level 2, Joliet, Romeo or Apple Extension to ISO 9660).** The MP3 file is missing the ".mp3" file name extension. ➡**Make sure to add the ".mp3" extension to each MP3 file name.** The WMA file is missing the ".wma" file name extension. ➡**Make sure to add the ".wma" extension to each WMA file name.**
It takes too long for playback to start.	The folders and files recorded on the disc are layered too much. ➡**As checking of files takes longer in this case, do not record any unnecessary folders or files other than MP3/WMA on the disc.**
Poor recording quality, sound skipping.	➡**The recording quality differs depending on the encoding software used, and on settings such as the bit rate. Set the bit rate within the range specified in the specifications chart (page 57).** **It is recommended to set the bit rate to "128 kbps or more" and "Fixed".** High-speed writing was executed when MP3/WMA data was recorded on the disc. ➡**Decrease writing speed as low as possible.**
Files are not played in the desired order.	Files or folders are not recorded in the desired playback order. ➡**Some writing software lets you specify the recording order by adding a prefix in the range of "01"–"99", etc. to the file name. For details refer to the user manual of your writing software.**
Folder/file name is not displayed correctly.	The disc does not conform to the file systems supported by this player. ➡**Insert a disc that conforms to the file systems (ISO 9660 Level 1, Level 2, Joliet, Romeo or Apple Extension to ISO 9660).** ➡**There may be a problem with your writing software or CD recorder (CD-R/RW drive). For details refer to the user manual of your writing software.**
File playing time is not displayed correctly.	You ran the file in fast forward or fast reverse during playback or turned off the ignition switch of the car during playback. ➡**Playing another file will return the file playing time to normal.** You played a VBR (Variable Bit Rate) format file. ➡**The file playing time of VBR (Variable Bit Rate) format file is sometimes displayed incorrectly.**

Troubleshooting (continued)

❐ Sound Setting

Trouble	Cause/Step
No sound from left, right, front or rear speaker.	Left and right balance, or front and rear balance is off on one side. ➡**Adjust balance/fader setting as appropriate.**
	Cables are not correctly connected. ➡**Connect the cables correctly.**
Left and right sounds are reversed in stereo listening.	The speaker wires are reversed between right and left. ➡**Connect the speaker wires to the correct ones.**

❐ Remote Control Unit

Trouble	Cause/Step
Buttons are invalid for operation.	Battery polarities are reversed. ➡**Insert the battery correctly.**
	Wrong the battery. ➡**Check the battery.**
	The battery has run down. ➡**Replace the battery.**
	Remote control unit is in the wrong direction. ➡**Direct the remote control unit at sensor on the front panel.**

Error Display Messages

❐ CD/MP3/WMA CQ-DFX683U CQ-DF583U
CD CQ-DF203U

Display	Cause/Step
CD -E1- ↓ CD EJECT	● Disc is dirty, or is upside down. ➡**Check the disc.**
CD -E2- ↓ CD EJECT	Disc has scratches. ➡**Check the disc.**
CD -E3- ↓ CD EJECT	No operation by some cause. ➡**If normal operation is not restored, call the store where you purchased the unit or the nearest Servicenter to ask for repairs.**
■MP3/WMA ※ CD -E4-	The player for some reason cannot read the file you are trying to play. (File recorded in an unsupported file system, compression scheme, data format, file name extension, damaged data, etc.) ➡**Select a file that the player can read. Confirm the type of data recorded on the disc. Create a new disc if necessary.**
■WMA ※ CD -E5-	An attempt has been made to play a copy-protected WMA file. ➡**Play WMA files which are not copy-protected.**
NO DISC	No disc is in the player. ➡**Insert discs in the player.**

※ If all the files cannot be played, E4 or E5 remains on the display.

Troubleshooting (continued)

☐ **CD Changer** CQ-DFX683U CQ-DF583U

Display	Cause/Step
CDC -E1-	● Disc is dirty, or is upside down. ● A disc other than a music CD (CD-DA type) is loaded. ➡**Check the disc. (The changer automatically switches to the next disc.)**
CDC -E2-	Disc has scratches. ➡**Check the disc. (The changer automatically switches to the next disc.)**
CDC -E3-	No operation by some cause. ➡**If normal operation is not restored, call the store where you purchased the unit or the nearest Servicenter to ask for repairs. The display continues if you cannot switch off the power.**
NO DISC	No disc is in the changer (magazine). ➡**Insert discs into the changer (magazine).**
00 00/00⁰	The dual changer control unit is connected, and the connections are now being checked. ➡**The connections are now being checked so please wait a few moments.**
CDC NON	● The dual changer control unit is connected but the changers are not connected. ● The changer has become disconnected from the main unit in the changer mode. ➡**Verify that correct connections have been made.**

Note:
● For details, refer to operating instructions for the changer used.

Maintenance
Your product is designed and manufactured to ensure a minimum of maintenance. Use a dry, a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

Product Servicing
If the suggestions in the charts do not solve the problem, we recommend that you take it to your nearest authorized Panasonic Servicenter. The product should be serviced only by a qualified technician.

Replacing the Fuse
Use fuses of the same specified rating (15 A). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the unit.
If the replacement fuse fails, contact your nearest Panasonic Servicenter for service.

Maintenance

Notes on CD-Rs/RWs

● You may have trouble playing back some CD-R/RW discs recorded on CD recorders (CD-R/RW drives), either due to their recording characteristics or dirt, fingerprints, scratches, etc. on the disc surface.
● CD-R/RW discs are less resistant to high temperatures and high humidity than ordinary music CDs. Leaving them inside a car for extended periods may damage them and make playback impossible.
● The unit may not successfully play back a CD-R/RW that was made by the combination of writing software, a CD recorder (CD-R/RW drive) and a disc if they are incompatible one another.
● This player cannot play the CD-R/RW discs if the session is not closed.
● This player cannot play the CD-R/RW discs which contains other than CD-DA (or MP3/WMA data CQ-DFX683U CQ-DF583U).
● Be sure to observe the instructions of CD-R/RW disc for handling it.

Notes on CD/CD Media (CD-ROM, CD-R, CD-RW)

If you use commercial CDs, they must have either of these labels below.

How to hold the disc
● Do not touch the underside of the disc.
● Do not scratch the discs.
● Do not bend the disc.
● When not in use, keep the disc in the case.

Label side
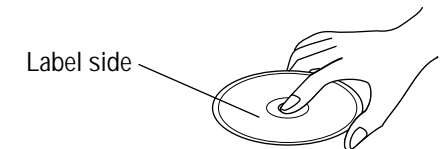
Do not use irregularly shaped discs.
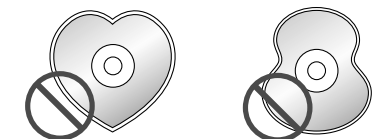
Do not leave discs on the following places:
● Direct sunlight
● Near car heaters
● Dirty, dusty and damp areas
● Seats and dashboards

Disc cleaning
Use a dry, soft cloth to wipe from the center outward.

<Right> <Wrong>
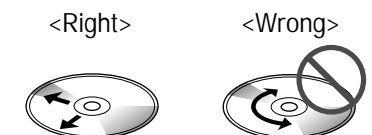
Do not attach any seals or labels to your discs.

Do not write on the disc label in a heavy pen or ballpoint pen stroke.

Installation Guide

⚠ WARNING

This installation information is designed for experienced installers and is not intended for non-technical individuals. It does not contain warnings or cautions of potential dangers involved in attempting to install this product.

Any attempt to install this product in a motor car by anyone other than qualified installer could cause damage to the electrical system and could result in serious personal injury or death.

❒ Installation Hardware

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×16 mm)		1
⑤	Mounting bolt (5 mmφ)		1
⑥	Power connector		1
⑦	Removable face plate case		1
⑧	Trim plate		1
⑨	Lock cancel plate		2

❒ Overview

This product should be installed by a professional. However, if you plan to install this product yourself, your first step is to decide where to install it. The instructions in these pages will guide you through the remaining steps:

(Please refer to the "WARNING" statement above.)

- Identify and label the car wires.
- Connect the car wires to the wires of the power connector.
- Install the unit in the dashboard.
- Check the operation of the unit.

If you encounter problems, please consult your nearest professional installer.

Caution:
- This unit operates with a 12 V DC negative ground auto battery system only. Do not attempt to use it in any other system. Doing so could cause serious damage.

Before you begin installation, look for the items which are packed with your unit.

- **Warranty Card**…Fill this out promptly.
- **Panasonic Servicenter List for Service Directory** …Keep for future reference in case the product needs servicing.
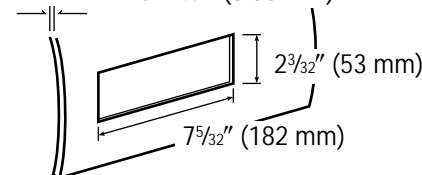- **Installation Hardware**…Needed for in-dash installation.

❒ Required Tools

You'll need a screwdriver, a 1.5 V AA battery, and the following:

12 V DC Test bulb   Electrical tape   Side-cut pliers
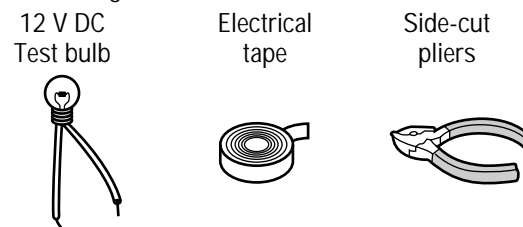
❒ Dashboard Specifications

Thickness   Min. $^{3}/_{16}$″ (4.75 mm)
         Max. $^{7}/_{32}$″ (5.56 mm)

$2^{3}/_{32}$″ (53 mm)

$7^{5}/_{32}$″ (182 mm)

❒ Identify All Leads

The first step in installation is to identify all the car wires you'll use when hooking up your sound system.

As you identify each wire, we suggest that you label it using masking tape and a permanent marker. This will help avoid confusion when making connections later.

Note:
- Do not connect the power connector to the stereo unit until you have made all connections. If there are no plastic caps on the stereo hooking wires, insulate all exposed leads with electrical tape until you are ready to use them. Identify the leads in the following order.

Power Lead

If your car has a radio or is pre-wired for one:
Cut the connector wires one at a time from the plug (leaving the leads as long as possible) so that you can work with individual leads.
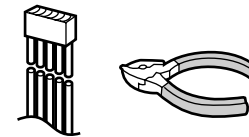
Turn the ignition on to the accessory position, and ground one lead of the test bulb to the chassis.

Touch the other lead of the test bulb to each of the exposed wires from the cut radio connector plug. Touch one wire at a time until you find the outlet that causes the test bulb to light.

Now turn the ignition off and then on. If the bulb also turns off and on, that outlet is the car power lead.

If your car is not wired for an audio unit:
Go to the fuse block and find the fuse port for radio (RADIO), accessory (ACC), or ignition (IGN).

Battery Lead

If your stereo unit has a yellow lead, you will need to locate the car's battery lead. Otherwise you may ignore this procedure. (The yellow battery lead provides continuous power to maintain a clock, memory storage, or other function.)

If your car has a radio or is pre-wired for one:
With the ignition and headlights off, identify the car battery lead by grounding one lead of the test bulb to the chassis and checking the remaining exposed wires from the cut radio connector plug.

If your car is not wired for an audio unit:
Go to the fuse block and find the fuse port for the battery, usually marked BAT.

Speakers

Identify the car speaker leads. There are two leads for each speaker which are usually color coded.
A handy way to identify the speaker leads and the speaker they are connected with is to test the leads using a 1.5 V AA battery as follows.
Hold one lead against one pole of the battery and stroke the other lead across the other pole. You will hear a scraping sound in one of the speakers if you are holding a speaker lead.
If not, keep testing different lead combinations until you have located all the speaker leads. When you label them, include the speaker location for each.

Antenna Motor

If your car is equipped with an automatic power antenna, identify the car motor antenna lead by connecting one bulb tester lead to the car battery lead and touching the remaining exposed wires from the cut radio connector plug one at a time. You will hear the antenna motor activate when you touch the correct wire.

Antenna

The antenna lead is a thick, black wire with a metal plug at the end.

❒ Connect All Leads

Now that you have identified all the wires in the car, you are ready to begin connecting them to the stereo unit wires. The wiring diagram (page 52) shows the proper connections and color coding of the leads.

We strongly recommend that you test the unit before making a final installation.

You can set the unit on the floor and make temporary connections to test the unit. Use electrical tape to cover all exposed wires.

Important:
- Connect the red power lead last, after you have made and insulated all other connections.

Ground

Connect the black ground lead of the power connector to the metal car chassis.

Installation Guide (continued)

Speakers

Connect the speaker wires. See the wiring diagram (page 52) for the proper hookups. Follow the diagram carefully to avoid damaging the speakers and the stereo unit.

The speakers used must be able to handle more than 50 W of audio power. If using an optional audio amplifier, the speakers should be able to handle the maximum amplifier output power. Speakers with low input ratings can be damaged. Speaker impedance should measure 4–8 Ω, which is typically marked on most speakers. Lower or higher impedance speakers will affect output and can cause both speaker and stereo unit damage.

Motor Antenna

Connect the car motor antenna lead to the dark blue motor antenna relay control lead.

(Do not confuse the antenna lead with blue/white stripe lead for a power amplifier.)

Battery

Connect the yellow battery lead to the correct radio wire or to the battery fuse port on the fuse block.

Antenna

Connect the antenna by plugging the antenna lead into the antenna receptacle.

Equipment

Connect any optional equipment such as an amplifier, according to the instructions furnished with the equipment. Leave about 12″ (30 cm) of distance between the speaker leads/amplifier unit and the antenna/antenna extension cord. Read the operating and installation instructions of any equipment you will connect to this unit.

Power

Connect the red power lead to the correct car radio wire or to the appropriate fuse port on the fuse block.

If the stereo unit functions properly with all these connections made, disconnect the wires and proceed to the final installation.

❐ Final Installation

Lead Connections

Connect all wires, making sure that each connection is insulated and secure. Bundle all loose wires and fasten them with tape so they will not fall down later. Now insert the stereo unit into the mounting collar.

Congratulations! After making a few final checks, you're ready to enjoy your new auto stereo system.

❐ Final Checks

1. Make sure that all wires are properly connected and insulated.
2. Make sure that the stereo unit is securely held in the mounting collar.
3. Turn on the ignition to check the unit for proper operation.

If you have difficulties, consult your nearest authorized professional installer for assistance.

❐ Preparation

- We strongly recommend that you wear gloves for installation work to protect yourself from injuries.
- When bending the mounting tabs of the mounting collar with a screwdriver, be careful not to injure your hands and fingers.

- Disconnect the cable from the negative ⊖ battery terminal (see caution below).
- Unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

Less than 30°
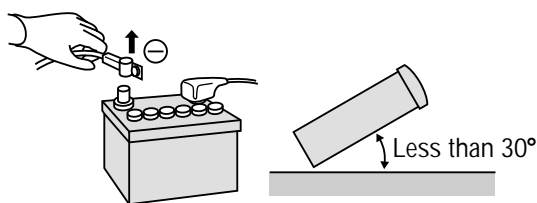
Caution:
- Do not disconnect the battery terminals of a car with a trip or navigational computer since all user settings stored in memory will be lost. Instead take extra care with installing the unit to prevent shorts.

Dashboard Installation
Installation Opening

2³/₃₂″ (53 mm)

7⁵/₃₂″ (182 mm)
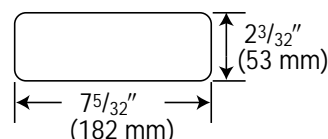
This unit can be installed in any dashboard having an opening as shown above. The dashboard should be ³/₁₆″ (4.75 mm)−⁷/₃₂″ (5.56 mm) thick in order to be able to support the unit.

❐ Installation Procedures

First complete the electrical connections, and then check them for correctness. (page 52)

⑥ Power connector

Mounting springs (※)

Mounting springs (※)

Mounting holes

⑤ Mounting bolt

Engage the mounting springs (※) in the mounting holes of the mounting collar ① firmly.

Mounting hole

Mounting springs
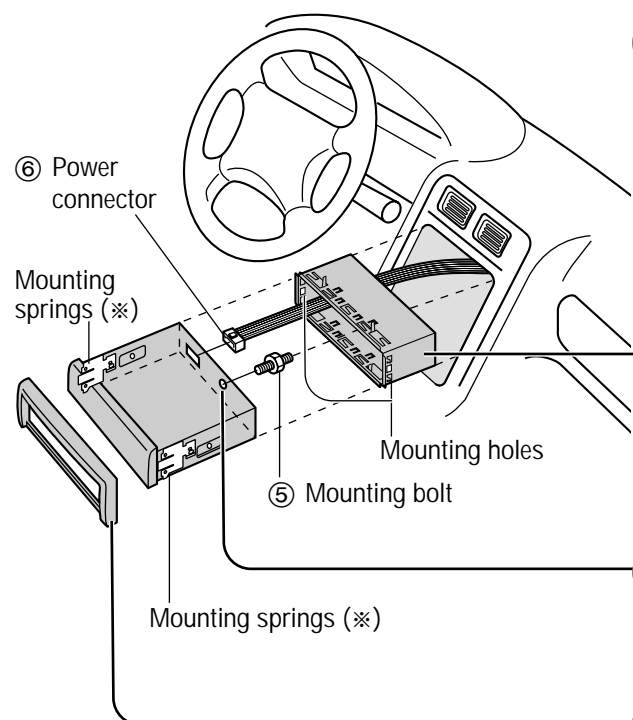
The included mounting collar ① is designed specifically for this unit. Do not use it to attach any other model.

① Insert mounting collar ① into the dashboard, and bend the mounting tabs out with a screwdriver.

The tabs to be bent vary depending on the car. To securely install the unit, fully bend a number of the tabs so that there is no rattling.
Example:

Tab
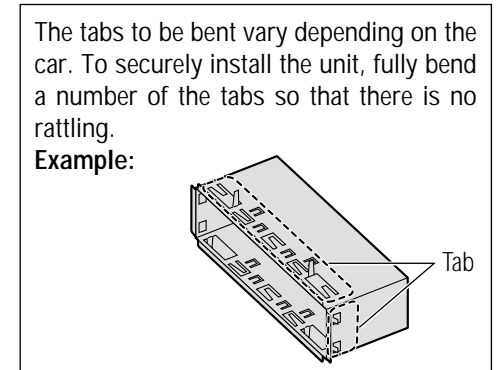
② **Secure the rear of the unit.**
After fixing mounting bolt ⑤ and power connector ⑥, fix the rear of the unit to the car body by either method **(a)** or **(b)** shown below.

③ **Insert trim plate ⑧.**

④ **After installation, reconnect the negative ⊖ battery terminal.**

(a) Using the rear support strap ③

Fire wall of car

④ Tapping screw

3 mmϕ

② Hex. nut

③ Rear support strap

⑤ Mounting bolt

① Mounting collar

(b) Using the rubber cushion (option)

Rear support bracket (provided on the car)

Rubber cushion (option)

⑤ Mounting bolt

① Mounting collar
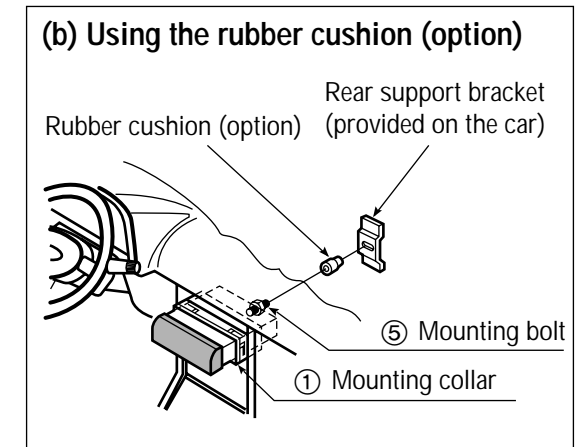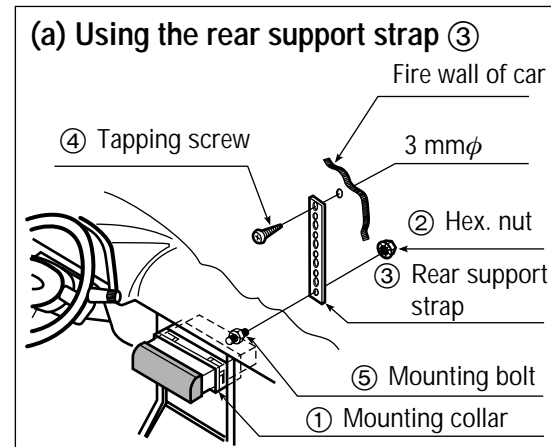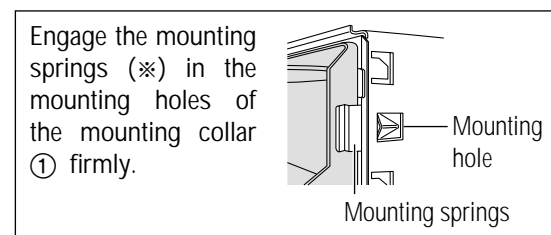
Installation Guide (continued)

Remove the Unit

Switch off the power of the unit.

1 Remove the removable face plate.
  ① Press **[OPEN]**. The removable face plate will be opened.

[OPEN]
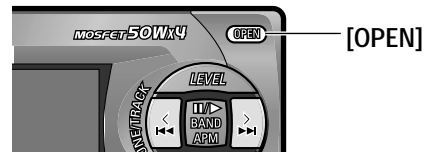
  ② Push the face plate to the left.

  ③ Pull it out toward you.
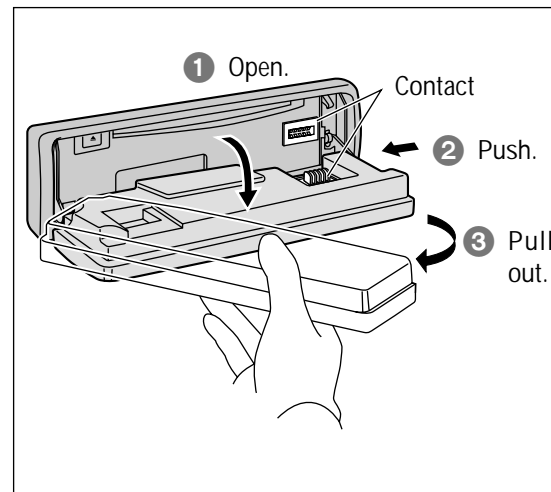
2 Remove the trim plate ⑧ with a screwdriver.
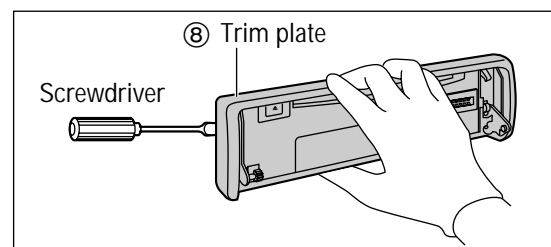
3 **①** Insert the lock cancel plates ⑨ along the grooves on both sides of the main unit until "click" is heard.

  ② Pull out the unit while pushing the plates further inside.
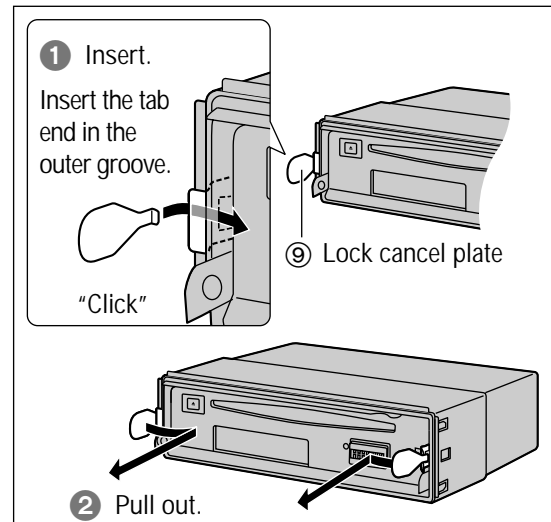
4 Remove the unit by pulling with both hands.

① Open.
Contact
② Push.
③ Pull out.

⑧ Trim plate
Screwdriver

① Insert.
Insert the tab end in the outer groove.
"Click"
⑨ Lock cancel plate
② Pull out.

CQ-DFX683/DF583/DF203U
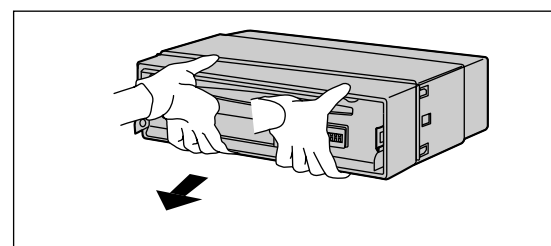
Anti-Theft System

This unit is equipped with a removable face plate. Removing this face plate makes the radio totally inoperable. The security indicator will blink.

Place the Removable Face Plate into Case

1 Switch off the power of the unit.

2 Remove the removable face plate. (page 50)

3 Gently press the bottom of the case and open the cover. Place the face plate into the case and take it with you when you leave the car.

⑦ Removable face plate case
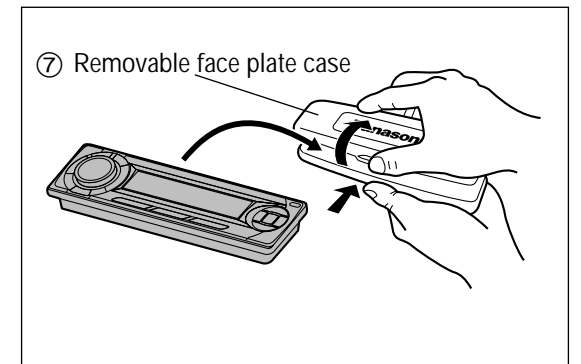
Install Removable Face Plate

1 Fit the face plate with its left hole on one of the pins provided on the main unit.

2 Fit the other hole on the other pin applying slight pressure.

3 Move the face plate up and down a few times to make sure it is secure. Then close the front panel and press down the right side of the face plate until it clicks into plate.

Contact
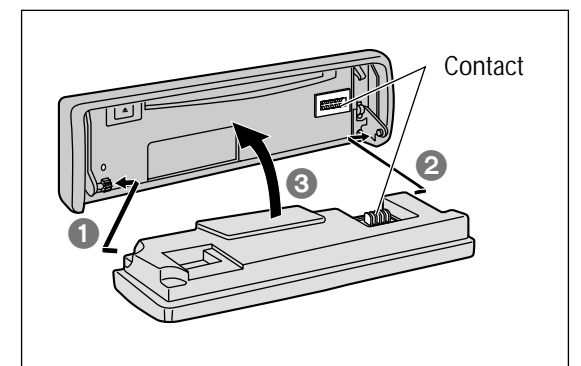
Security Indicator

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

This function is activated when the security function is on. (page 36)

Panel Removal Alarm

This alarm sounds to warn you not to forget to remove the panel before leaving your car.

This function is activated when the security function is on. (page 36)

Security indicator
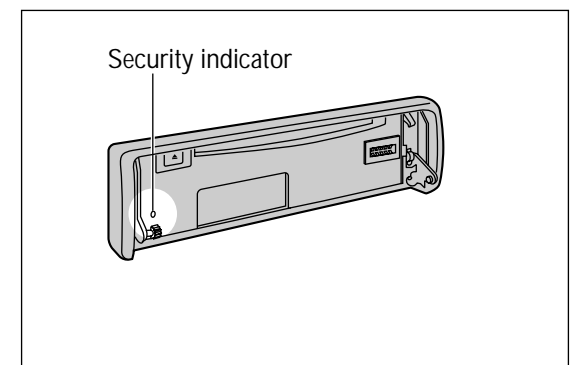
Caution:
- This face plate is not waterproof. Do not expose it to water or excessive moisture.
- Do not remove the face plate while driving your car.
- Do not place the face plate on the dashboard or nearby areas where the temperature rises to high level.
- Do not touch the contacts on the face plate or on the main unit, since this may result in poor electrical contacts.
- If dirt or other foreign substances get on the contacts, wipe them off with a clean and dry cloth.
- To avoid damaging the front panel, do not push it down or place objects on it while it is open.

CQ-DFX683/DF583/DF203U

Electrical Connections

Caution:
- This product is designed to operate with a 12 V DC, negative ground battery system.
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove approximately ¼″ (5 mm) of protective covering from the ends of the leads before connecting.
- Do not insert the power connector into the unit until the wiring is completed.

- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.
- Remember, if your car has a drive computer or a navigation computer, the data of its memory may be erased when the battery terminals are disconnected.

Accessory used for wiring

No.	Item	Q'ty
⑥	Power connector	1

☐ Wiring Diagram

Antenna

CQ-DFX683U | CQ-DF583U | **CD changer input cord**
CD.C-IN — R (red) / L (white)

CQ-DFX683U
Subwoofer cord
S.W-OUT — (Red) / (White) Monaural

◎ : L (white)   Preamp output connector (rear)
◉ : R (red)   Preamp output connector (front)

CD changer control connector

⑥ Power connector

External amplifier control power lead
(max. 500 mA)
This lead is for connection to the power amplifier.
(Blue/white stripe)

Note:
- This lead is used for power control when an external power amplifier is connected. The power supply of a power amplifier will be activated when turning on the power of this unit.

Fuse (15 A)※
※If the fuse (rear panel) blows frequently, there may be something wrong with the unit. Consult your nearest Panasonic Servicenter for service.

CQ-DFX683U | CQ-DF583U
Dual CD changer control lead
(Brown/white stripe)

Note:
- Insulate this lead with vinyl tape when you do not connect it.

Front speaker lead
FRONT SP
(White) Left ⊕
(White/black stripe) ⊖
(Gray) Right ⊕
(Gray/black stripe) ⊖
To front speaker

Antenna control lead
(to motor antenna) (max. 500 mA)
This lead is not intended for use with switch actuated power antenna.
(Blue)

Note:
- The power antenna extends automatically **when the AM/FM radio mode is selected.**

Rear speaker lead
REAR SP
(Green) Left ⊕
(Green/black stripe) ⊖
(Violet) Right ⊕
(Violet/black stripe) ⊖
To rear speaker

ACC power lead
To ACC power, +12 V DC.
ACC
(Red)

Battery lead
To the car battery, continuous +12 V DC.
BATTERY 15 A
(Yellow)

Ground lead
To a clean, bare metallic part of the car chassis.
(Black)

Caution:
- Do not connect more than one speaker to one set of speaker leads.

Electrical Connections (continued)

Note:
● For wiring, carefully read the operating instructions for the devices connected.

❐ Upgrading the System 1 `CQ-DFX683U` `CQ-DF583U`

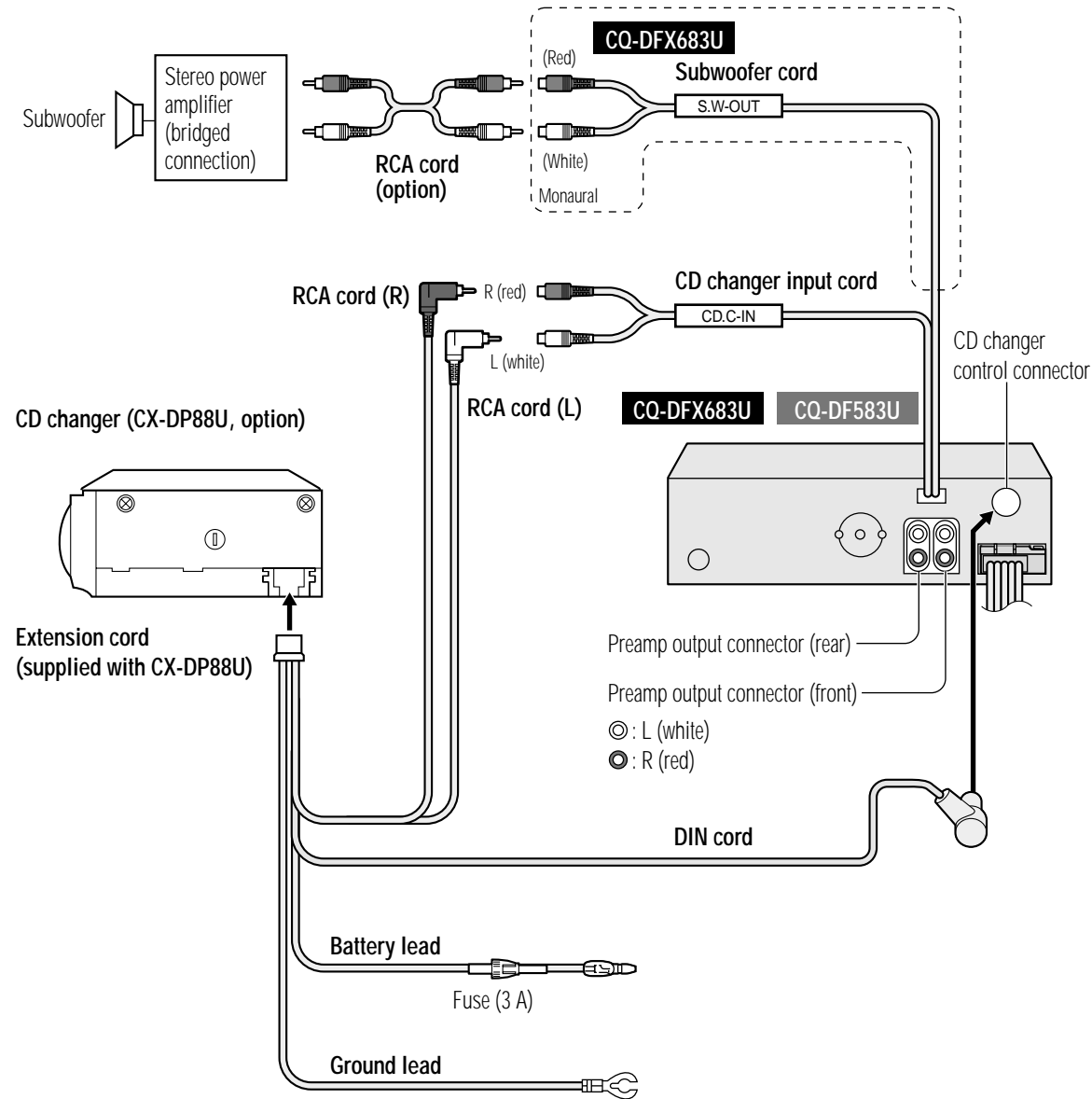**Example Combination**
● CD changer (CX-DP88U, option)
● Stereo power amplifier (option)

CQ-DFX683U

(Red)

Subwoofer cord

S.W-OUT

Subwoofer

Stereo power amplifier (bridged connection)

RCA cord (option)

(White)

Monaural

RCA cord (R)   R (red)

CD changer input cord

CD.C-IN

RCA cord (L)   L (white)

CD changer (CX-DP88U, option)

CQ-DFX683U   **CQ-DF583U**

CD changer control connector

Extension cord (supplied with CX-DP88U)

Preamp output connector (rear)

Preamp output connector (front)

◎ : L (white)
◉ : R (red)

DIN cord

Battery lead

Fuse (3 A)

Ground lead

❐ Upgrading the System 2 `CQ-DFX683U` `CQ-DF583U`

Example Combination
● CD changer (CX-DP88U, option)
● Dual changer control unit (CA-CD55, option)

⑥ Power connector

CD-C-IN

R (red)   R (red)

CD changer input cord

L (white)   RCA cord   L (white)
(supplied with CA-CD55)

Dual changer output cord

DIN extension cord (supplied with CA-CD55)

TWIN CD-C-CONT

Dual CD changer control lead
(Brown/white stripe)

Dual changer control unit (CA-CD55, option)

Changer 1 connecting cord

Changer 2 connecting cord

Note:
● For details on the Sirius receiver connections, refer to the separate operating guide for Sirius.

DIN cord

DIN cord

RCA cord

RCA cord

Battery lead   Fuse (3 A)

Battery lead   Fuse (3 A)

Ground lead

Ground lead

CD changer (CX-DP88U, option)

CD changer (CX-DP88U, option)

Specifications

❒ General

Power supply:	12 V DC (11 V−16 V), test voltage 14.4 V, negative ground
Current consumption:	Less than 2.2 A (CD play mode; 0.5 W×4 channels)
Maximum power output:	50 W×4 channels at 1 kHz, volume control maximum
Tone adjustment range:	
Bass:	±12 dB at 100 Hz
Treble:	±12 dB at 10 kHz
Speaker impedance:	4−8 Ω
Preamp output voltage:	2.5 V (CD play mode; 1 kHz, 0 dB)
Preamp output impedance:	200 Ω

CQ-DFX683U

Subwoofer output voltage:	2.5 V
Subwoofer output impedance:	200 Ω
Dimensions (W×H×D):	7″×1^{15}/$_{16}$″×6^{1}/$_{8}$″ (178×50×155 mm)
Weight:	3 lbs. 1 oz (1.4 kg)

❒ FM Stereo Radio

Frequency range:	87.9 MHz−107.9 MHz
Usable sensitivity:	11.0 dBf. (1.25 μV, 75 Ω)
50 dB quieting sensitivity:	15.2 dBf. (1.6 μV, 75 Ω)
Frequency response:	30 Hz−15 kHz (±3 dB)
Alternate channel selectivity:	75 dB
Stereo separation:	35 dB (1 kHz)
Image response ratio:	75 dB
IF response ratio:	100 dB
Signal to noise ratio:	70 dB

❒ AM Radio

Frequency range:	530 kHz−1 710 kHz
Usable sensitivity:	29 dB/μV (25 μV, S/N 20 dB)

❒ CD Player

Sampling frequency:	8 times oversampling
DA converter:	1 bit/4 DAC system
Pick-up type:	Astigma 3-beam
Light source:	Semiconductor laser
Wave length:	780 nm
Frequency response:	20 Hz−20 kHz (±1 dB)
Signal to noise ratio:	96 dB
Total harmonic distortion:	0.01 % (1 kHz)
Wow and flutter:	Below measurable limits
Channel separation:	75 dB

CQ-DFX683U   CQ-DF583U

MP3 decoding:	MPEG 1 audio layer 3/ MPEG 2 audio layer 3
Bit rate:	
MPEG 1 audio layer 3:	32 kbps−320 kbps, VBR (Variable Bit Rate)
MPEG 2 audio layer 3:	8 kbps−160 kbps, VBR (Variable Bit Rate)
Sampling frequency:	
MPEG 1 audio layer 3:	32 kHz, 44.1 kHz, 48 kHz
MPEG 2 audio layer 3:	16 kHz, 22.05 kHz, 24 kHz
WMA:	
Bit rate:	64 kbps−192 kbps
Sampling frequency:	32 kHz, 44.1 kHz, 48 kHz

Above specifications comply with EIA standards.

Note:
● Specifications and the design are subject to modification without notice due to improvements in technology.