

MP3 CD Player/Receiver with CD Changer Control

CQ-RDP472N Operating Instructions

Bedienungsanleitung Manuel diinstructions Gebruiksaanwijzing Bruksanvisning Manuale di istruzioni Manual de Instrucciones









- Please read these instructions carefully before using this product and keep this manual for future reference.
- Bitte lesen Sie diese Bedienungsanleitung vor der Verwendung dieses Produktes aufmerksam durch und bewahren Sie sie danach für spätere Nachschlagzwecke sorgfältig auf.
- Prière de lire ces instructions attentivement avant d'utiliser le produit et garder ce manuel pour l'utilisation ultérieure.
- Leest u deze instructie alstublieft zorgvuldig door voor u dit product in gebruik neemt en bewaar deze handleiding voor later gebruik.
- Läs igenom denna bruksanvisning noga innan produkten tas i bruk. Spara bruksanvisningen för framtida behov.
- Si prega di leggere attentamente queste istruzioni prima di usare questo prodotto e di conservare questo manuale per usi futuri.
- Lea con atención estas instrucciones antes de utilizar el producto y guarde este manual para poderlo consultar en el futuro.

Label Indications and Their Locations Warnetiketten und deren Anbringungsort Indications portées les étiquettes et emplacement

Aanduiding van de labels en hun plaats Varningsskyltarna, och deras placering Indicazioni delle etichette e le loro posizioni Indicaciones de las etiquetas y su ubicación

VORSICHT!

UNSICHTBARE LASERSTRAHLUNG! WENN ABDECKUNG GEÖFFNET IST, NICHT DEM LASERSTRAHL AUSSETZEN.

- APPAREIL À LASER DE CLASSE 1
- KLASS 1 LASER APPARAT
- LUOKAN 1 LASERPLAITE



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Panasonic welcomes you to their constantly growing family of electronic products owners.

We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

ENGLISH

Volume Level

For your driving safety, keep the volume level low enough to be aware of road and traffic conditions.

Car Washing

To avoid electrical shorts which may cause fire, or other damage, do not expose this product (including the speakers and CDs) to water or excessive moisture.

Car Ventilation

If your car is parked for several hours in direct sunlight, the temperature inside the car may become very high. It is advisable to drive the car and give the interior a chance to cool down before switching the unit on.

Power Supply

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

Disc Mechanism

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

Service

This product is made of precision parts. Do not attempt to disassemble or adjust any parts. For repair, please consult your nearest authorized Panasonic Service Center.

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

Laser Products

Caution: This product utilizes a laser.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser products:

Wave Length 780 nm Laser Power No hazardous radiation is emitted with safety protection.

Do not take apart this unit or attempt to make any changes yourself. This unit is a very intricate device that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet.

Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

Components

Operating Instructions1
• Supplied Hardware
Remote Control Unit
• Lithium Battery (CR2025)1
• Warranty Card
······································

Remote Control Unit Preparation

Battery Installation

- Remove the battery holder. Pull the holder out at position B while pushing position A as indicated.
- Install the battery on the battery holder. Place the battery in the holder with its (+) side upwards as shown.
- Insert the battery holder. Push in the battery holder back into its original position.

(Back side) Lithium battery

Battery Notes

Remove and dispose of an old battery immediately. Battery Information:

- Battery Type: Panasonic lithium battery (CR2025) (Included)
- Battery Life: Approximately 6 months under 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.

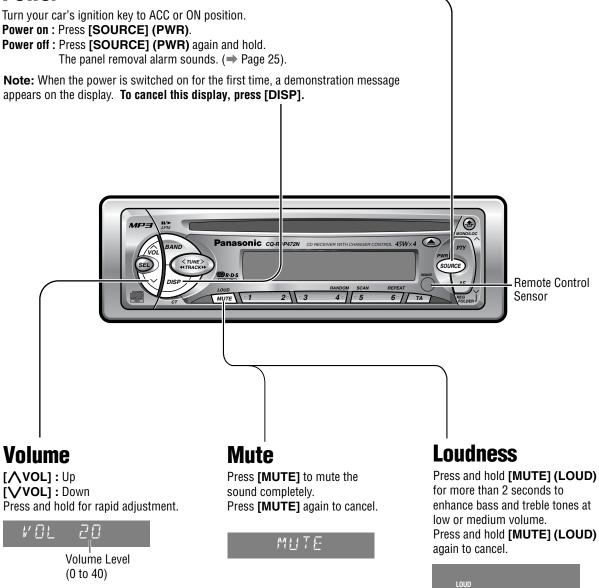
- Do not disassemble or short the battery. Do not throw a battery into a fire.
- Keep batteries away from children to avoid the risk of accidents.
- Be careful to the disposal rules when you dispose of batteries.

Remote Controls

		Audio Mode Selection
Power	POWER MENU	Panel Removal Alarm Set
Source	SOURCE) (SEL)	
000100	NUMBER VOL	– Volume control
Mute		
Loudness		- Track/Folder number input
Random	RAND SCAN REP	
Scan		
Repeat		- Tune
		Track/File Selection
		Fast forward/Fast reverse
Folder/Disc Selection ———		
	(BAND) O (DISP	– Display
	SIT	
Band	Panalonic	
Set	Car Auc.	- [0] to [9]
Pause		

Power and Audio Controls

Power -



Note: When the power is switched off and on again, the volume slowly rises to the previous level.

CQ-RDPএদে 2মা om Www.Somanuals.com. All Manuals Search And Download.

ENGLISH 4

Mode Selection Press [SOURCE] to change the mode. Radio (**→** Page 8) CD / MP3 Player (Disc is in the player.) (⇒ Page 14) CD Changer (Optional CD changer is connected and magazine is in the changer.) (**➡** Page 20) 45W×4 Panasonic CQ-RDP472N R.D.S 60// MUTE \ 01 TA Audio Mode (Bass / Treble / Balance / Fader) Press [**\VOL**] or [**\VOL**] to change each level. Press **[SEL]** to select the audio mode. **Regular Mode** ╈ Volume ¥ 385+ 901 (-12 to +12) Bass ₽ T FR E---343 (-12 to +12) Treble Ť 1AL R (5 (Left/Right: 1 to 15) **Balance** AR! ENT (Center) (Front/Rear: 1 to 15) FAT F. 15 Fader FA] ENT (Center) Note: If no operation takes place for more than 5 seconds in audio mode (2 seconds in Volume mode), the display

return to regular mode.

Radio Basics

Mode Selection

Press [SOURCE] to select the radio mode.

■●FMI 8750

FM Stereo Indicator

IUTE

Panasoni : CO-RDP472N CD RECEIVER WITH CHANGER CONTROL 45Wx4

A

4.11

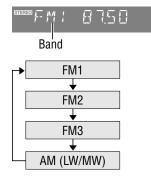
6 / TA

FM !

2 03

2 Band

Press [BAND] to change the bands.



3 Manual Tuning

[**>TUNE]** : Higher frequency. [**<TUNE]** : Lower frequency.

Seek Tuning

Press and hold [>TUNE] or [<TUNE] for more than 0.5 seconds, then release. Seeking will start.

Mono / Local Selection

MONO : Monaural reception. Select MONO to reduce noise when receiving a weak stereo broadcast.

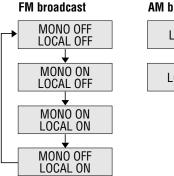
LOCAL : Tunes in strong stations only.

FM broadcasts

Press and hold **[PTY] (MONO/LOC)** to change the mode. Release at the desired point.

AM broadcast

Press [PTY] (MONO/LOC) to switch LOCAL mode on and off.



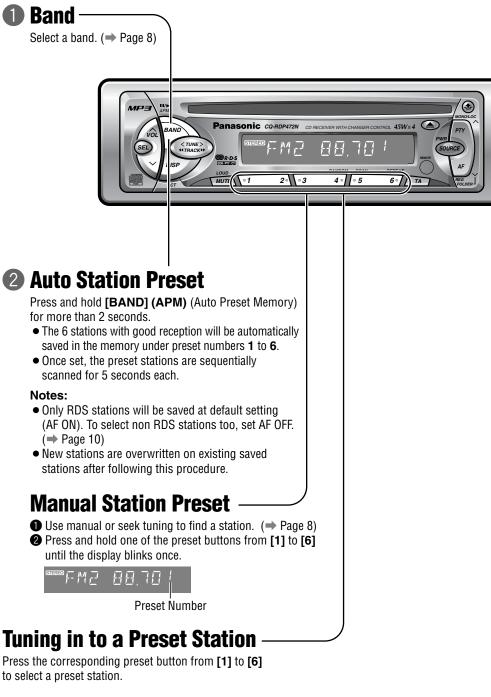




Preset Station Setting

Up to 6 stations each can be saved in the FM1, FM2, FM3 and AM (LW/MW) preset station memories.

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



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

Radio Data System (RDS)

RDS Basics

The following functions are available when receiving RDS stations.

PS Display (Program Service Name)

CT Service

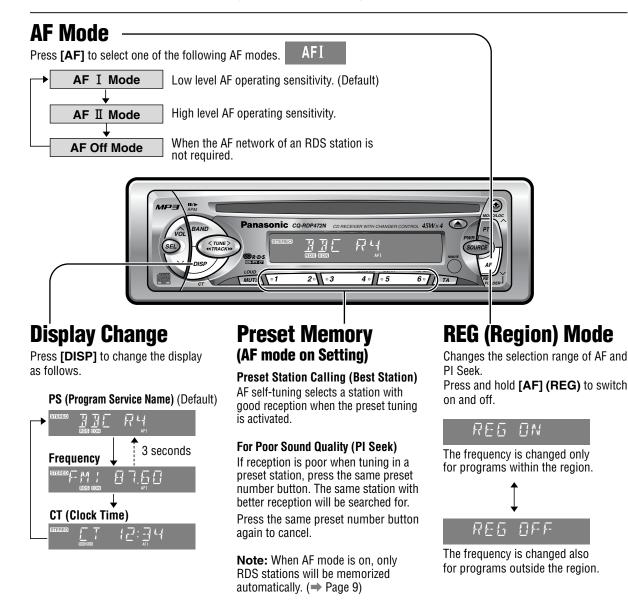
The name of station is displayed instead of the frequency.

(Clock Time)

When receiving an RDS station, the CT (Clock Time) service automatically adjusts the time. "NO CT" is displayed in areas where CT service is not available. (→ Page 13 for Clock Set)

AF (Alternative Frequency)

When reception is poor, an RDS station broadcasting the same program is tuned in automatically.



RDS service availability varies with areas. Please understand if RDS service is not available in your area. This chapter explains the summary and operation regarding RDS.

Traffic Announcements (TA)

Some RDS FM stations periodically provide traffic information.

TP

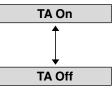
(Traffic Program) Broadcasting of traffic information.

TA (Traffic Announcements)

Radio announcements on traffic conditions.

TA Mode ·

Press **[TA]** to switch TA mode on and off.



If the station received is not a TP station, the unit automatically searches for a TP station to tune in to it. When the TP station received begins a traffic announcement, you can hear it from the unit.

TAON



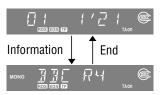
TA Volume Set

(Volume Level : 0 to 40)

Press [**\VOL**] or [**\VOL**] while receiving traffic announcements . The TA volume differs from the regular volume (by up to 5 levels).

TA Standby

When TA is on, CD / MP3 or CD changer will be interrupted by FM traffic announcements.



Muting in TA Mode

To listen only to traffic announcements while muting, press and hold **[TA]** for more than 2 seconds when TA is on. To cancel the muting TA on mode (muting in TA mode \rightarrow TA mode), take either following two.

- Press **[TA]** again.
- Press [**\VOL**] several times.

Note: To switch to TA off, press [TA] again.

TP Auto Search

When reception of a TP station is poor, TP Auto Search will automatically search for a TP station with better reception.

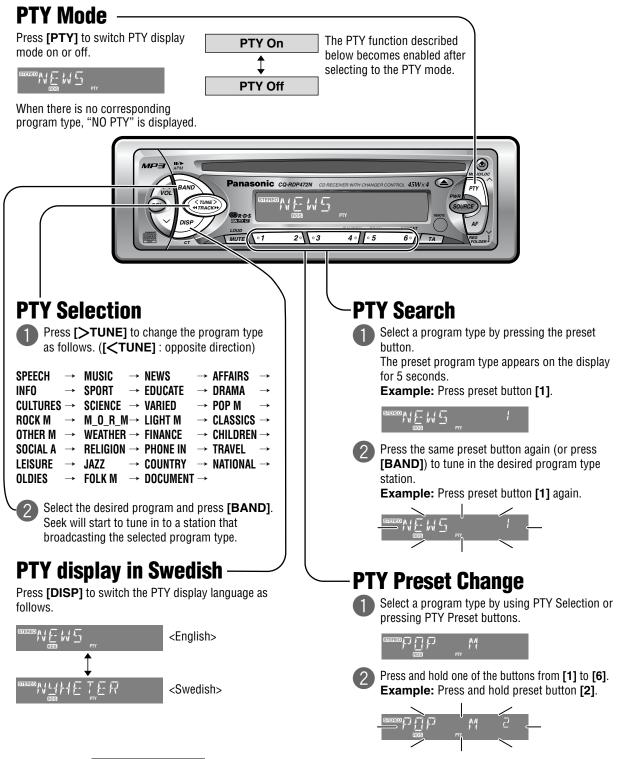
Seek and Preset Station (TA on Setting)

TP Seek Tuning: Seek tunes only TP stations. Auto TP Station Preset: The 6 strongest TP	(⇒ Page 8)
stations are saved in memory.	(➡ Page 9)
Tuning in a TP Preset Station	(➡ Page 9)

Radio Data System (RDS) (continued)

Program Type Reception (PTY)

RDS FM stations provide a program type identification signal. Example: news, rock, classical music, etc.



Clock Set

PTY Type Preset

. int

Program types are stored in memory under preset buttons from **[1]** to **[6]** as shown in the table below. To tune in the desired program type, press any of preset buttons from **[1]** to **[6]**.

Preset No. Program TVPo Display				
1	News	NEWS 1	NEWS	
2	Speech	SPEELH ?	AFFAIRS / INFO EDUCATE / DRAMA CULTURES / SCIENCE VARIED / WEATHER FINANCE / CHILDREN SOCIAL A / RELIGION PHONE IN / TRAVEL LEISURE / DOCUMENT	
3	Sport	50001 3	SPORT	
4	Pop. Music	рор мч	POP.M	
5	Classic Music	CLASSICS S	CLASSICS	
6	Other Music	MUSIE 6	ROCK M / M_O_R_M LIGHT M / OTHER M JAZZ / COUNTRY NATIONAL / OLDIES FOLK M	

EON (Enhanced Other Networks)

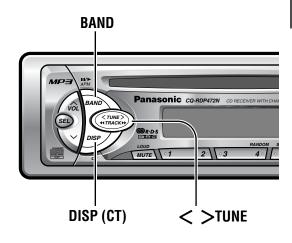
When EON data is received, the EON indicator lights the TA and AF functions are expanded as follows.

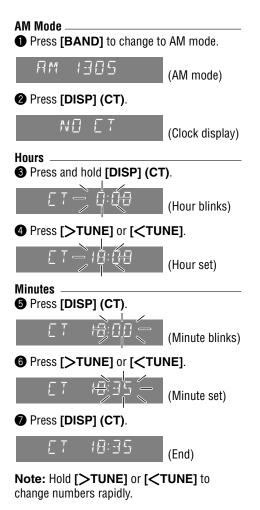
- **TA :** Traffic information from the current and other network stations can be received.
- **AF**: The frequency list of preset RDS stations is updated by EON data.

EON enables the radio to make fuller use of RDS information. It constantly updates the AF list of preset stations, including that currently tuned in to. For example, if you preset a station far from home, you will later be able to receive the same station at an alternative frequency, or any other station serving the same program. EON also keeps track of locally available TP stations for quick reception.

Emergency Announcement Reception

When an emergency announcement is broadcast, the unit is automatically switched to receiving that broadcast. If this happens in a mode other than radio mode (CD / MP3 mode and CD changer mode) or in Muting in TA mode, "ALARM" blinks on the display. When RDS CT service is not available, set the clock as follows. (24-hour system)



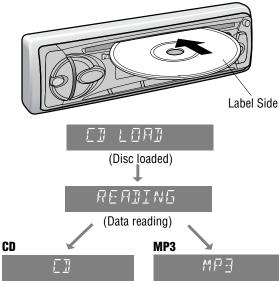


CD / MP3 Player

Disc Insert and Playback

Insert a disc.

The unit identifies CD-DA data or MP3 data, and plays it.



(Ordinary music CD recognized and playback starts) (MP3 data recognized and playback starts \Rightarrow Page 16)

Notes:

- Do not insert a disc when this indicator lights because a disc is already loaded.
- When a CD-R or CD-RW which has CD-DA formatted data is loaded, this unit recognizes it as an ordinary music CD.
- If you record many folders and MP3 files onto a disc, it may take up to a few minutes before playback starts.
- If a disc contains both CD-DA and MP3 data, only firstrecorded data is played.

Stop and Disc Eject



Press [] to stop CD / MP3 play and eject the disc.

Note: The unit returns to the previous mode when the disc is ejected in the CD / MP3 player mode.

Cautions:

- Only 12 cm CD, CD-ROM, CD-R and CD-RW discs are available for this unit.
- Do not use irregular shaped discs.
- Do not use discs that have a seal or label attached.

Listening to a CD

(When a CD is in the player...)

Mode Selection

Press [SOURCE] to select the CD mode.



Track Selection

[►►TRACK] : Advance to the next track.
[◄<TRACK] : Back to the beginning of the current track. Back to the previous track. (Press twice)

Fast Forward / Fast Reverse

Press and hold **[>>TRACK] :** Fast forward. **[<TRACK] :** Fast reverse. Release to resume the playback.

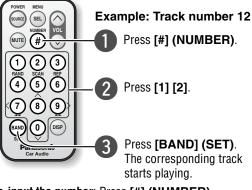
Pause

Press [**BAND**] to pause. Press [**BAND**] again to resume the playback.

PAUSE

Direct Track Selection

(Only for remote control)

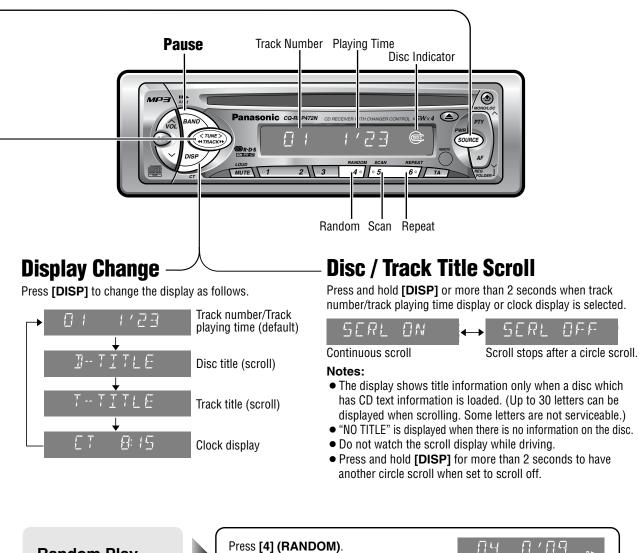


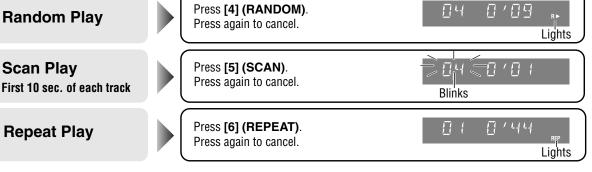
Re-input the number: Press [#] (NUMBER). Return to regular display: Press [DISP].

Note: Random, scan and repeat play are canceled when **[#]** is pressed.



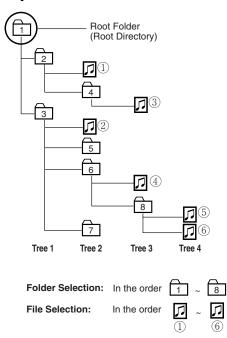
Note: Refer to the section on "Points to remember when recording an MP3 disc" (→ Page 18) and "Notes on CD-Rs/RWs" (→ Page 29).





Folder Selection Order / MP3 File Playback Order

Example:



Notes:

- This unit counts the number of folders irrespective of the presence or absence of MP3 file.
- If the selected folder does not contain any MP3 files, the nearest MP3 files in the order of playback will be played.
- Playback order may be different from other MP3 players even if the same disc is used.

Listening to a MP3

(When an MP3 disc is in the player...)

Mode Selection

Press [SOURCE] to select the MP3 mode.

00 -- 003

Folder Selection

 $[\Lambda]$: Next folder. $[\Lambda]$: Previous folder.

File Selection

[►►TRACK] : Advance to the next file.
[◄<TRACK] : Back to the beginning of the current file. Back to the previous file. (Press twice)

Fast Forward / Fast Reverse

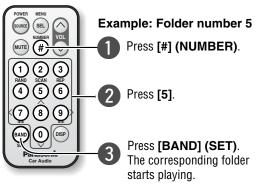
Press and hold **[>TRACK] :** Fast forward. **[<TRACK] :** Fast reverse. Release to resume the playback.

Pause

Press **[BAND]** to pause. Press **[BAND]** again to resume the playback.

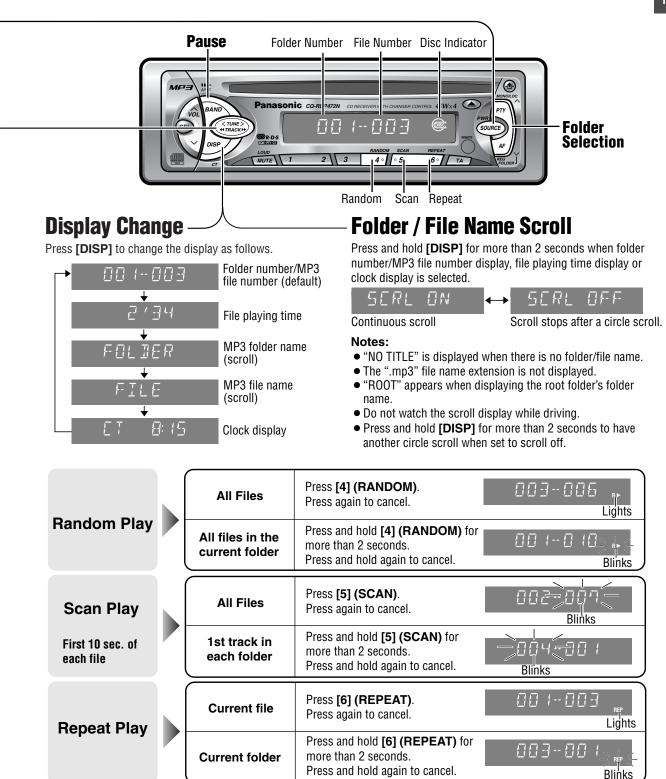
рацбе

Direct Folder Selection



Re-input the number: Press [#] (NUMBER). Return to regular display: Press [DISP]. Notes:

- If there is no file in the specified folder, error message "CD -E4-" appears. Select another folder which contains MP3 files.
- Random, scan and repeat play are canceled when [#] is pressed.



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Points to remember when recording an MP3 disc

This player allows you to play MP3 files recorded on CD-ROMs, CD-Rs (Recordable) and CD-RWs (Rewritable).

What is MP3

MP3, short for MPEG Audio Layer-3, is a standard for compressing digital video data adopted for video CDs and similar media. It is one of the audio compression systems covered by MPEG's (Motion Picture Experts Group) digital audio compression standards. What it does is reduce the number of bytes in a song without detracting from the sound quality by eliminating big sound waves within the sound range that is imperceptible to the human ear. This compression allows you to reduce the contents of a conventional music CD by a factor of around 10. This means that you can record the contents of 10 music CDs on a single CD-R or CD-RW. (The 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.)

Converting (encoding) audio data to an MP3 file

- It is recommended to set the bit rate to "128 kbps or more" and "Fixed".
- Bit rate 8 kbps of MPEG-2 and sampling frequency 16 kHz of MPEG-2 can not be reproduced.
- If set to VBR (Variable Bit Rate), the file playing time may not be displayed correctly.
- The playback sound quality differs depending on the encoding software and the bit rate. For details refer to the user manual of your encoding software.

Recording MP3 files on a CD-R/RW

- Do not record files other than MP3s or unnecessary folders on a disc. If many folders or files other than MP3s are recorded on a disc, it may take up to 150 seconds before playback starts, and you may have difficulties using fast forward and fast reverse.
- Use ISO 9660 file system (Extension of the ISO 9660 file systems are included.) APPLE HFS file system is not supported. If they do not conform to ISO 9660 file system, the file may not play normally, or the file or folder names may not be displayed correctly.
- Make sure to add the ".mp3" extension to each MP3 file name. A file with a different file name extension or none at all will not play.
- Although Multi session recording is supported, the use of Disc-at-Once is recommended. Make sure to close the session when you finished recording on a disc.
- ID3Tag character information is not displayed. A file in which character information was recorded by use of ID3Tag 2.0 or later version may not be reproduced normally. For example, the file playing time may not be displayed correctly.
- Packet writing software is not supported.
- A playlist function is not supported. Record files and folders in the order in which you want them to be played. 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.

Note: You may encounter trouble in playing MP3s or displaying the information of MP3 files recorded with certain writing softwares or CD recorders (CD-R/RW drives).

Caution: Never assign the ".mp3" file name extension to a file that is not in the MP3 format. This may not only produce noise from the speakers and speaker damage, but can damage your hearing.

Maximum number of files / folders

• Maximum number of trees: 8

• Maximum number of files / folders: 254 (files + folders. Root folder is not included.)

Note: If the total of files and folders exceeds 254, successful playback may not be performed.

Supported file systems and file names

Supported file system	Displayable folder names and file names			
ISO 9660 Level 1	Name files and folders in accordance with the standard of each file system. Refer to the instructions of writing software for details.			
ISO 9660 Level 2	 This player can display file names of up to 30 letters in scroll mode. * Up to 15 letters can be displayed when scrolling in the Joliet system. The unit recognizes only ASCII character set and some of special characters. German special character (β), French special characters (ç, é, è, ê, ë, î, ï, œ) 			
Joliet*	etc. will be converted into an asterisk (*). ASCII character set Special Characters			
Romeo	ASCII character set consisting of A to Z, a to z, digits 0 to 9, and the follow- ing symbols: (space) ! " # \$ % & ' () * +,/:; < = > ? @ [\]^_` { }~ (However, lowercase characters are represented as uppercase characters in this unit.)	 À Á Â Ã Å à á â ã å Â Ä Â Ä Â Ă A Ă		
Apple Extension to ISO 9660		D Ó Ô Ô Ö Ö ò ó ô ö ö U Ú Û Ü ù ú û ü		

Glossary

ISO 9660

The most common international standard for the logical format for files and directories.

APPLE HFS

The file system used by the Macintosh operating system to organize data. (Not supported)

Multi-session

A method of adding data incrementally to a CD-R or CD-RW in more than one recording session.

Disc-at-Once

A method of writing data in a media by just one operation and no more writing after that.

ID3Tag

A function that allows character information (title, artist, album title, date, etc.) to be written onto the disc. (Not displayed \rightarrow Page 18).

Packet writing

A method of writing data on a CD media in small increments. (Not supported)

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.

Note: MP3 encode software and writing software are not supplied to this model.

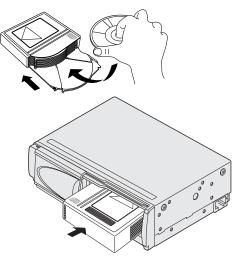
CD Changer Control

17

CD changer functions are designed for optional Panasonic CD changer unit. (→ Page 26 for connection)

Insert the Magazine

Playback starts.



Example: CD Changer CX-DP88N (Option)

Notes:

- "CDC 0000" is displayed when no disc is loaded in the magazine.
- The unit returns to previous mode when the magazine is ejected in the CD changer mode.
- CD text is not supported in the CD changer mode. CD text can not be displayed even if a CD changer capable of recognizing CD text is connected. (CX-DP9061EN, for example.)

Listening to a CD Changer

(When the magazine is in the player...)

Mode Selection -

Press [SOURCE] to select the CD changer mode.

<u>A'AA |</u> F - F - F

Disc Selection

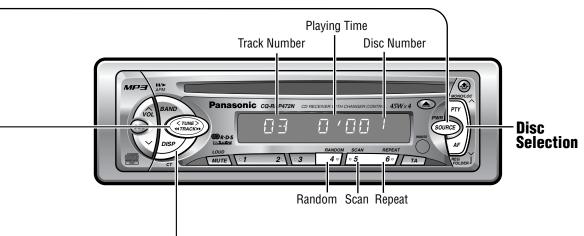
 $[\Lambda]$: Next disc. [V]: Previous disc.

Track Selection

[>>TRACK] : Advance to the next track. [**<TRACK**] : Back to beginning of the current track. Back to previous track. (Press twice)

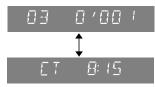
Fast Forward / Fast Reverse

Press and hold [>>TRACK] : Fast forward. [**<TRACK**] : Fast reverse. Release to resume the playback.



Display Change -

Press [DISP] to switch the display as follows.



Track number/Track playing time/ Disc number (default)

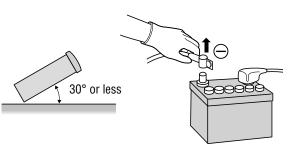
Clock display

Random Play	All tracks	Press [4] (RANDOM) . Press again to cancel.	05 0'32 I _n . Lights	
		All tracks on the current disc	Press and hold [4] (RANDOM) for more than 2 seconds. Press and hold again to cancel.	05 0'323 Blinks
Scan Play		All tracks	Press [5] (SCAN) . Press again to cancel.	Blinks
First 10 sec. of each track		1st track on each disc	Press and hold [5] (SCAN) for more than 2 seconds. Press and hold again to cancel.	C + C + C + F = Blinks
Repeat Play		Current track	Press [6] (REPEAT) . Press again to cancel.	03 0'26 / Lights
		Current disc	Press and hold [6] (REPEAT) for more than 2 seconds. Press and hold again to cancel.	0101515 Blinks

Installation

Preparation

- Before installation, check the radio operation with antenna and speakers.
- 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°.

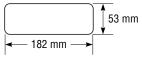


Caution: Do not disconnect the battery terminals of a car with trip or navigational computer since all user settings stored in memory will be lost. Instead take extra care with installing the unit to prevent shorts.

Dashboard Installation

Installation Opening

The unit can be installed in any dashboard having an opening as shown at right. The dashboard should be 4.5 mm - 6 mm



thick in order to be able to support the unit.

Installation Precautions This product should be installed by a professional installer, if possible.

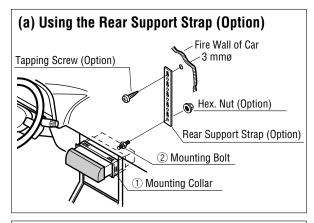
In case of difficulty, please consult your nearest authorized Panasonic Service Center.

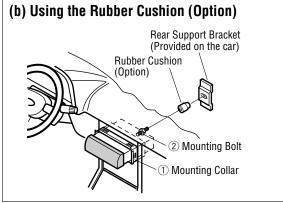
- 1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.
- 2. Follow the electrical connections carefully (\Rightarrow Page 26). Failure to do so may result in damage to the unit.
- 3. Connect the power lead (red) after all other connections are made.
- 4. Be sure to connect the battery lead (vellow) to the positive terminal (+) of the battery or fuse block (BAT) terminal.
- 5. Insulate all exposed wires to prevent short circuiting.
- 6. Secure all loose wires after installing the unit.
- 7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

Supplied Hardware

No.	Item	Diagram	Q'ty
1	Mounting Collar		1
2	Mounting Bolt (5 mmø)	M	1
3	Power Connector		1
4	Removable Face Plate Case	(The second sec	1
5	Trim Plate		1
6	ISO Antenna Adapter	-AZD	1

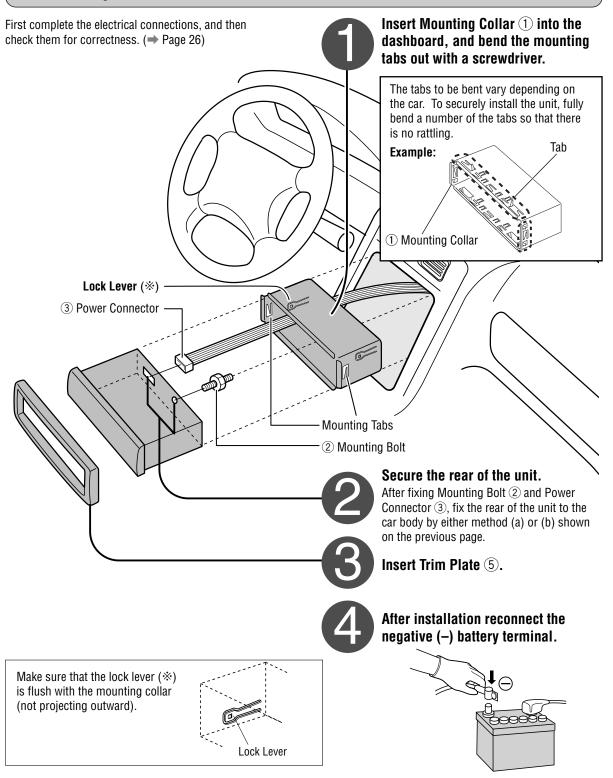
Methods for Fixing the Rear of the Unit





Cautions:

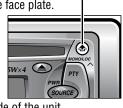
- We strongly recommend that you wear gloves for installation work to protect yourself from injuries.
- When bending the mounting tab of the mounting collar with a screwdriver, be careful not to injure your hands and fingers.



Installation (continued)

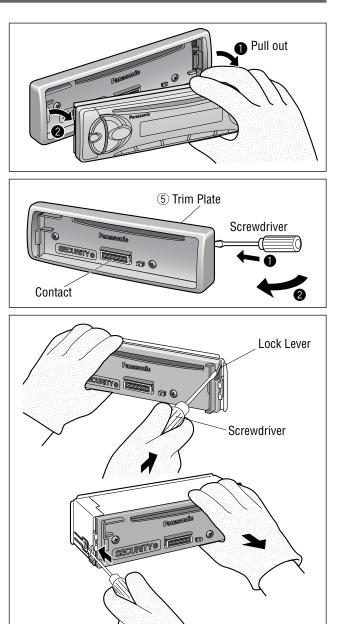
To Remove the Unit

Remove the removable face plate. (a) Press the release button [_____].



(b) Pull on the right side of the unit.

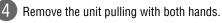
Remove the Trim Plate (5) with a screwdriver.

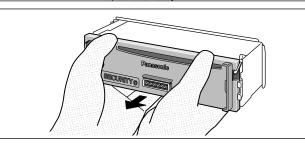




2

Pull out the unit while pushing down the lock lever with a screwdriver.





Cautions:

- 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 clean and dry cloth.

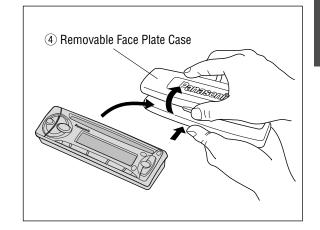
Anti-Theft System

This unit is equipped with a removable face plate. Removing this face plate makes the radio totally inoperable.

Place Removable Face Plate into Case

• Switch off the power of the unit.

- **2** Remove the removable face plate. (\Rightarrow Page 24)
- 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.

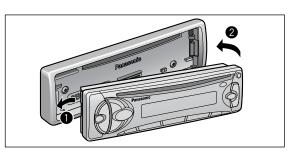


Cautions:

- This face plate is not water-proof. 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 levels.

Install Removable Face Plate

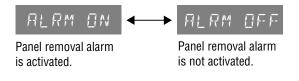
- Slide the left side of the removable face plate in place.
- Press the right end of removable face plate until "click" is heard.

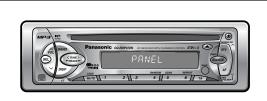


Panel Removal Alarm

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

Press and hold **[SEL]** to switch between "ALRM ON" or "ALRM OFF" in turn.





"PANEL" is displayed and an alarm sounds when turning off the power of this unit or turning the ignition switch of your car to OFF while the panel removal alarm is set to ON.

Electrical Connections

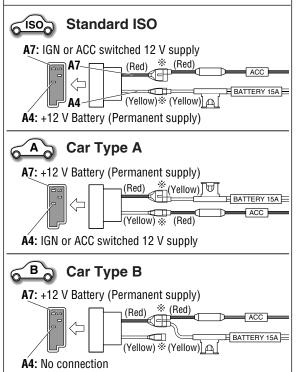
Cautions:

- Check the connectors provided on your car (see precaution below) before connecting the system.
- This unit is designed for use in a car having a 12volt negative ground battery system.
- To prevent damage to the unit, be sure to follow the connection diagram.
- Strip about 5 mm of the lead ends for connection (only non-ISO connector cords).
- Do not insert the power connector into the unit until the wiring is completed.
- Be sure to insulate any exposed wires to prevent short circuiting with the car chassis. Bundle all cables, and prevent cable terminals from touching any metal parts.

Precautions (ISO Connector)

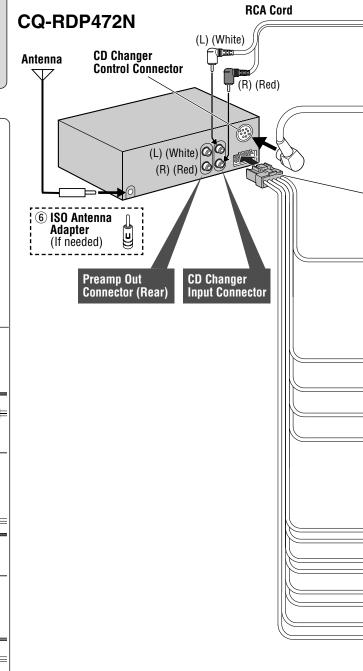
- The pin arrangement of the power connector conforms to ISO standard.
- The pin arrangement of ISO connectors in some cars may differ from the ISO standard.
- Please check that the pin arrangement of the connector in your car conforms to ISO standard.
- For car types A and B, change the wiring of the red and yellow leads as shown at below.
- After connection, insulate the portions marked (*) with insulating tape.

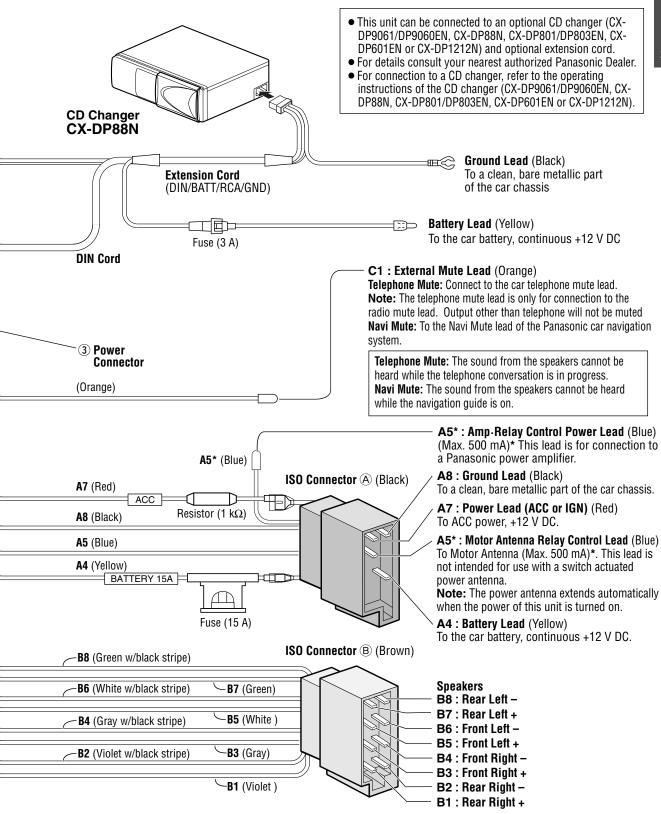
Note: For cars other than types A and B, please consult your local car shop.



Wiring Diagram

Example: Connection with CD changer CX-DP88N (Option)





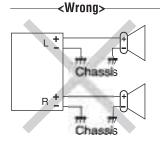
A5*: This lead can be used as either Amp Relay Control Power Lead or Motor Antenna Relay Control Lead, or both at the same time. However, the current capacity of this lead is 500 mA.

Speaker Connections

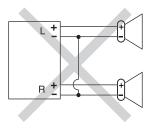
Caution: Please follow the instructions given below. Failure to do so will cause damage to the unit and speakers.

<Right>

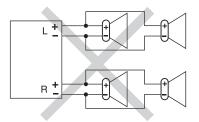
- Use ungrounded speaker only.
- The maximum speaker output should be 45 W or more. (If used with the optional power amplifier, the speaker output should be higher than the maximum amplifier output.)
- \bullet The speaker impedance should be 4 8 $\Omega.$
- This unit uses the BTCL circuit, so each speaker should be connected separately using parallel vinyl insulated cords.
- The speaker cords and the power amplifier unit should be kept away (about 30 cm apart) from the antenna and antenna extension cord.



• Never connect the speaker cord to the body of the car.



 Do not use a 3-wire type speaker system having a common earth lead.



• Do not connect more than one speaker to one set of speaker leads.

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 authorized Panasonic Service Center.

Maintenance

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

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

If you use commercial CDs, they must have either of these labels shown at right.



How to hold the disc

- Do not touch the underside of the disc.
- Do not scratch on the disc.
- Do not bend disc.
- When not in use, keep disc in the case.

Do not use irregularly shaped discs.

Do not leave discs in the following places:

- Direct sunlight
- Near car heaters
- Dirty, dusty and damp areas
- · Seats and dashboards

Disc cleaning

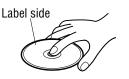
Use a dry, soft cloth to wipe from the center outward.

Caution on new discs

A new disc may have rough edges on its inner and outer perimeter. These may cause malfunction. Remove the rough edges using a pencil, etc.

Do not attach any seals or labels to your discs.

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







Do not use irregularly shaped discs.





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 and make playback impossible.
- Some CD-R/RWs cannot be played back successfully thanks to incompatibility among writing software, a CD recorder (CD-R/RW drive) and the discs.
- 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 data (Video CD, etc.).
- Be sure to observe the instructions of CD-R/RW disc for handling it.

Preliminary Steps

Check and take steps as described in the tables below.

If You Suspect Something Wrong

Immediately switch power off.

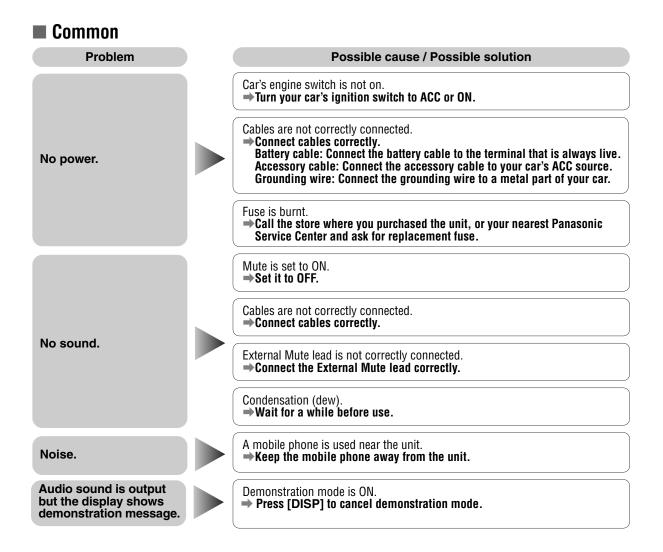
Disconnect the power cable and check that there is neither smoke nor heat from the unit before asking for repairs. Never try to repair the unit yourself because it is dangerous to do so.

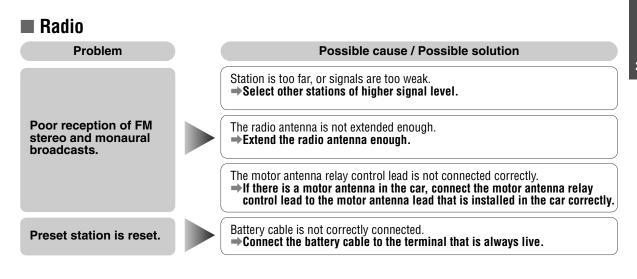
Cautions:

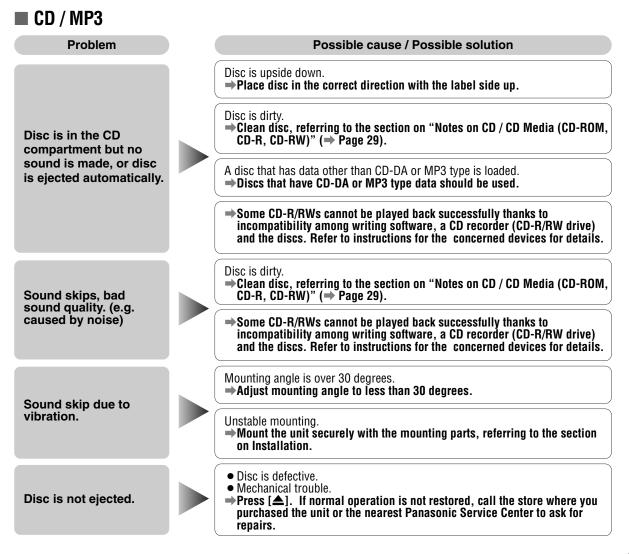
- Do not use the unit if it malfunctions or something is wrong.
- Do not use the unit in an irregular condition, for example, without sound, or with smoke or foul smell, which can cause ignition or electric shock. Immediately stop using the unit and call the store where you purchased it.

Product Service

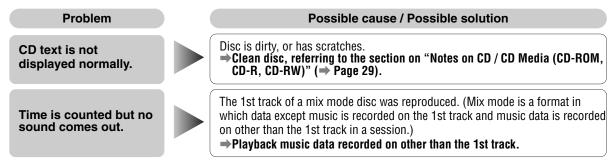
If the suggestions in the charts do not solve the problem, we recommend that you take it to your nearest authorized Panasonic Service Center. The product should be serviced only by a qualified technician.





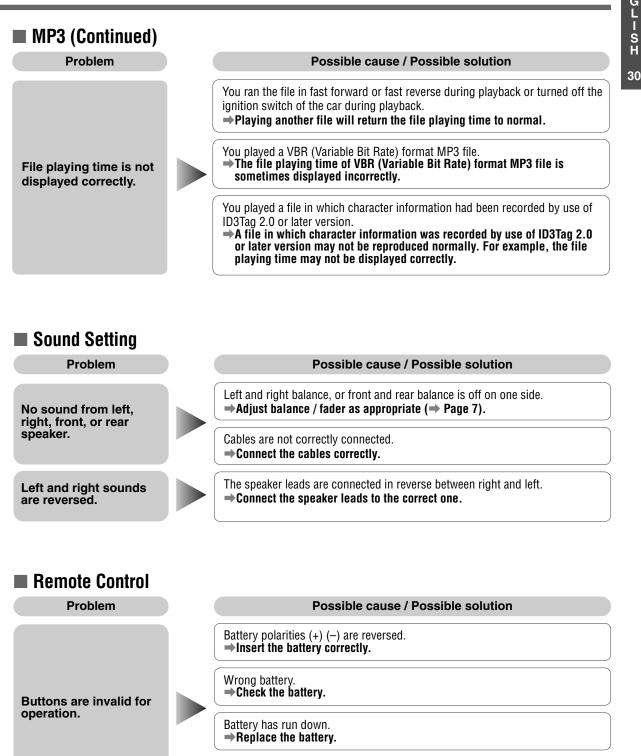


CD



MP3

Problem	Possible cause / Possible solution		
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 supported by this player. For supported file systems, see "Points to remember when recording an MP3 disc" (→ Page 18).		
	The MP3 file is missing the ".mp3" file name extension. →Make sure to add the ".mp3" extension to each MP3 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 MP3s on the disc. (If there are many hierarchies of files and folders, it may take up to 150 seconds to start playback.)		
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 35). It is recommended to set the bit rate to "128 kbps or more" and "Fixed". 		
	High-speed writing was executed when MP3 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 supported by this player. For supported file systems see "Points to remember when recording an MP3 disc" (→ Page 18).		
	⇒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.		



Remote control is in the wrong direction. →Direct the remote controller at REMOTE (sensor) on the panel.

Troubleshooting (continued)

Error Display Messages CD / MP3 Display Possible cause / Possible solution Disc is dirty, or is upside down. • A disc that has data other than CD-DA or MP3 type is loaded. F 74 ··· [-- ---] ··· Disc has scratches. Check disc. The disc ejected automatically No operation by some cause. F 71 ➡ If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Service Center to ask for repairs. Return to previous mode When there is no MP3 files in the specified folder during direct MP3 folder selection. Select another folder which contains MP3 files. 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.

CD Changer							
Display	Possible cause / Possible solution						
CIC IE I CIC IE 2	 Disc is dirty, or is upside down. A disc other than a music CD (CD-DA type) is loaded. Disc has scratches. 						
Disc Number To next disc automatically	→ Check disc.						
EBEEB	No operation by some cause. Press the reset switch on the CD changer. If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Service Center to ask for repairs. The display continues if you cannot switch off the power.						
C J C 0000	No disc is in the changer (magazine). Insert discs into the changer (magazine).						

Notes:

- Some CD changers will let this unit to be turned off after "CDC -E3-" error message appears.
- For details refer to the operating instructions of your CD changer.

Specifications

General		CD Player	
Power Supply	: DC 12 V (11 V - 16 V), Test Voltage 14.4 V, Negative Ground	Sampling Frequency DA Converter Error Correction System	: 8 times oversampling : MASH•1 bit/4 DAC System : Panasonic Super Decoding
Tone Controls	: Bass; ±12 dB at 100 Hz : Treble; ±12 dB at 10 kHz	Pick-Up Type	Algorithm : Astigma 3-beam
Current Consumption	: Less than 2.5 A (CD mode, 0.5 W 4-Speaker)	Light Source Wavelength	: Semiconductor laser : 780 nm
Maximum Power Output	: 45 W x 4 (at 4 Ω)	Frequency Response	: 20 Hz - 20 kHz (±1 dB)
Power Output	: 20 W x 4 (DIN45 324, at 4 Ω)	Signal to Noise Ratio	: 96 dB
Pre-Amp Output Voltage	: 2 V (CD mode)	Total Harmonic Distortion	: 0.01 % (1 kHz)
Pre-Amp Output Impedanc		Wow and Flutter	: Below measurable limits
Speaker Impedance	: 4 - 8 Ω	Channel Separation	: 70 dB
Dimensions	: 178 (W) x 50 (H) x 150 (D) mm		
Weight	: 1.5 kg	MP3 decoding	: MPEG 1 Audio Layer 3 MPEG 2 Audio Layer 3
FM Stereo Radio		Bit Rate	-
Frequency Range Usable Sensitivity	: 87.5 - 108 MHz : 6 dB/µV (S/N 30 dB)	(MPEG 1 Audio Layer 3)	: 32 kbps - 256 kbps, VBR (Variable Bit Rate)
Stereo Separation	: 35 dB (at 1 kHz)	(MPEG 2 Audio Layer 3)	: 16 kbps - 160 kbps, VBR (Variable Bit Rate)
MW Radio		Sampling Frequency	
Frequency Range	: 531 - 1,602 kHz	(MPEG 1 Audio Layer 3)	: 32 kHz, 44.1 kHz, 48 kHz
Usable Sensitivity	: 28 dB/µV (S/N 20 dB)	(MPEG 2 Audio Layer 3)	: 22.05 kHz, 24 kHz
LW Radio			
Frequency Range	: 153 - 279 kHz		
Usable Sensitivity	: 32 dB/µV (S/N 20 dB)		

Note: Specifications and design are subject to modification without notice due to improvements.

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