Panasonic

Operating Instructions

AAC WMA MP3 CD Player/Receive Model: CQ-RX400N/CQ-RX300N

WMA MP3 CD Player/Receive Model: CQ-RX200N/CQ-RX103N/ CQ-RX102N/CQ-RX101N

(CQ-RX400N/

CQ-RX300N)

AAC WMA MP3

· Please read these instructions carefully before using this product and keep this manual for future reference



• The number in parentheses underneath each accessory part name is the part number for maintenance and service. Accessories and their part numbers are subject to modification without prior notice due to improvements. • Mounting Collar and Trim Plate are mounted on the main unit at

Safety Information

Bead the operating instructions for the unit and all other components of your car audio system carefully before using the system. They contain instructions about how to use the system in a safe and effective manner. Panasonic assumes no responsibility for any problems resulting from failure to observe the instruction given in this manual.

Warning This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in severe injury or death. This pictograph intends to alert you to the presence

Observe the following warnings when using this

The driver should neither watch the display nor operate

Watching the display or operating the system will distract the driver from looking ahead of the vehicle and can cause accidents

g the display or operating the system

Iways stop the vehicle in a safe location and use the parking

Use the proper power supply. This product is designed for operation with a negative grounder 12 V DC battery system. Never operate this product with other

specially a 24 V DC battery

Keep batteries and insulation film out of reach of infants

o not insert any foreign objects into the slot of this unit.

sassemble, modify the unit or attempt to repair the ourself. If the product needs to be repaired, consul

tate (has foreign objects in it, is exposed to water, is smoking, or

ne remote control unit should not lie about in the car.

f the remote control unit lies about, it could fall on the floor wh

driving, get wedged under the brake pedal, and lead to a traffic

Refer fuse replacement to qualified service personne

Then the fuse blows out, eliminate the cause and have it it the fuse prescribed for this unit by a qualified service to the fuse prescribed for the fuse prescribed for the service to the se

ngineer. Incorrect replacement of the fuse may lead to smoke,

wer, no sound) or in an abnorm

each of infants. If an infant ingests a be

Do not disassemble or modify the unit.

Do not use the unit when it is out of order.

Protect the Deck Mechanism.

re, and damage to the product.

A Warning

the system while driving.

This manual uses nictographs to show you how to use the product safely and to alert you to potential dangers resulting from impro connections and operations. The meanings of the pictographs are explained below. It is important that you fully understand th meanings of the pictographs in order to use this manual and the system properly.

This pictograph intends to aren you to the picture of important operating instructions and installation instructions. Failure to heed the instructions may result in

Observe the following warnings when installing Disconnect the lead from the negative (-) battery terminal before installation.

n with the negative (-) battery termine specific procedures of battery terminal disconnection. FAILURE TO FOLLOW THE PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH

□Never use safety-related components for installation, grounding, and other such functions.

ot use safety-related vehicle components (fuel tank, brake suspension, steering wheel, pedals, airbag, etc.) for wiring or

Installing the product on the air bag cover or in a location where it interferes with airbag operation is prohibited.
Check for piping, gasoline tank, electric wiring, and other items before installing the product.
If you need to open a hole in the vehicle chassis to attach or wir the product, first check where the wire harness, gasoline tank, and the product is the local first check where the product hole form outside the product.

and electric wiring are located. Then open the hole from outsic

Never install the product in a location where it interferes with your field of vision.

equipment with power. After installation and wiring, you should check the

normal operation of other electrical equipment. tion of their using in abnormal conditions may electrical shock or a traffic accident

In the case of installation to an airbag-equipping car, confirm warnings and cautions of the vehicle manufacturer before installation.

Make sure the leads do not interfere with driving or getting in and out of the vehicle.

□Insulate all exposed wires to prevent short circuiting.

Notes on MP3/WMA/AAC

BFAM

 \triangle Caution:

This product utilizes a laser.

and dangerous voltages.

or business users in the European Union

s symbol is only valid in the European Union.

result in hazardous radiation exposure.

CQ-RX400N	MP3/WMA/AAC
CQ-RX300N	MP3/WMA/AAC
CQ-RX200N	MP3/WMA
CQ-RX103N	MP3/WMA
CQ-RX102N	MP3/WMA
CQ-RX101N	MP3/WMA

What is MP3/WMA/AAC?

P3* (MPEG Audio Layer-3) and WMA (Windows Media Audio) are the compression formats of digital audio. The forme is developed by MPEG (Motion Picture Experts Group), and the latter is developed by Microsoft Corporation. Using thes ssion formats, you can record the contents of abou 10 music CDs on a single CD media (This figures refer to dat ecorded 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).

*MPEG Layer-3 audio coding technology licensed from

AAC is an abbreviation for "Advanced Audio Coding" It has been defined as a standard for audio compression technology using MPEG 2 and MPEG 4.

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

Points to Remember When Mak WMA/AAC Files
Common

Commo High bit rate and high sampling frequency are recommended

- for high quality sounds. Selecting VBR (Variable Bit Rate) is not recommended ecause 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 instructions
- of your own encoding software and writing software. MP3
- It is recommended to set the bit rate to "128 kbps or more"
- WMA s 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 play back.
- AAC It is recommended to set the hit rate to "128 kbps or more"
- and "fixed" The formats and extensions for AAC data vary according to the encoder software used.

Specifications

General					
Power supply	:DC 12 V (11 V – 16 V DC), te voltage 14.4 V, negative grou	st			
Current consumption	:Less than 2.1 A				
Maximum power output	(CD mode; 0.5 W x 4 channels) :50 W x 4 channels (at 1 kHz), volume control maximum				
Power output	:22 W x 4 channels				
^r one/SQ adjustment range	(DIN 45 324, at 4 Ω) :SQ Low/Bass: ±12 dB (at 60 Hz, 80 Hz, 100 Hz, 200 Hz) SQ Mid: ±12 dB (at 500 Hz, 1 kHz, 2 kHz, 3 kHz) SQ High/Treble: ±12 dB (at 10 kHz, 12 kHz, 15 kHz, 18 kHz)				
Speaker impedance Pre-amp output voltage Pre-amp output impedance	:4 – 8 Ω :2.0 V (CD mode, 1 kHz, 0 dB :200 Ω)			
JSB Connector COLEXADDN USB Standard Compatibility Maximum Supply Current Input impedance Allowable external input Connector Dimensions (W x H x D) Veight	:1.1/2.0 Full Speed				
Disc Player					
Sampling frequency DA converter Vick-up type Light source Wave length requency response Signal to noise ratio Total harmonic distortion Wow and flutter Channel separation	:8 times oversampling :1 bit DAC System :Astigma 3-beam :Semiconductor laser :790 nm :20 Hz - 20 kHz (±1 dB) :96 dB :0.01 % (1 kHz) :Below measurable limits :85 dB				
For UK and Ireland cu Customer Care Cen • For customers within the	tre e UK: 0844 844 3852 lepublic of Ireland: 01 289 8333 duct information	Dirr • Orc cor 9:0 • Or • Mc • All dir • It c • Als fini			
	ric Industrial Co., I				

al Co., Ltd. Web Site: http://panasonic.ne

YGFM286051A FT1007-1117

Authorized Representative [Requirements of the EMC directive]: Panasonic Testing Centre Panasonic Marketing Europe Gmbl Winsbergring 15, 22525 Hamburg, F.R. Germany

Printed in China

Keep the sound volume at an appropriate level. Keep the volume level low enough to be aware of road and traffic ditions while driving. This unit is designed for use exclusively in automobiles

 \triangle Caution

Do not operate the unit for a prolonged period with the engine turned off. rating the audio system for a long period of time with the

Observe the following cautions when using this

engine turned off will drain the battery. Do not expose the unit to direct sunlight or excessive

Otherwise these will raise the interior temperature of the unit, and it may lead to smoke, fire, or other damage to the unit. Do not use the product where it is exposed to water,

moisture, or dust. Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure t the unit does not get wet in car washes or on rainy days

connection is completed. Failure to observe this, the loud noise may come out and damage

neadphone output of an external device without any attenuator may distort sound or damage the connected external device.

Observe the following cautions when installing. Refer wiring and installation to qualified service personnel.

aximum safety, have it installed by your dealer. Panasonic is no ble for any problems resulting from your own installation of th

Not following the instructions to properly install and wire the product could cause an accident or fire.

parts such as seat rails. Do not scratch, pull, bend or twist the leads. Do not run them near heat sources or place heavy objects on them. If leads must be run over sharp metal edges, protect the eads by winding them with vinyl tape or similar protection.

Use the supplied or designated parts and appropriate tools to install the product. The use of parts other than those supplied or designated may result in internal damage to the unit. Faulty llation may lead to an accident, a malfunction or fire. Do not block the air vent or the cooling plate of the unit.

Blocking these parts will cause the inte and will result in fire or other damage.

Do not install the product where it is exposed to stron vibrations or is unstable. d slanted or strongly curved surfaces for installation. If the ation is not stable, the unit may fall down while driving an

lead to an accident or injury. Installation Angle product should be installed in a horizontal position with th

ont end up at a convenient angle, but not more than 30°. ne user should bear in mind that in some areas there may be istrictions on how and where this unit must be installed. Cons

Wear gloves for safety. Make sure that wiring is completed before installation. To prevent damage to the unit, do not connect the powe

connector until the whole wiring is complete Do not connect more than one speaker to one set of speaker leads. (except for connecting to a tweeter)

Observe the following cautions when handling the hattery for the remote control unit

CQ-RX400N CQ-RX300N

• Match the polarity of the battery with the (+) and (-) marks in the e a dead battery as soon as possible

Remove the battery from the remote control unit when not using it for an extended period of time.
Insulate the battery (by placing them in a plastic bag or covering

them with vinyl tape) before disposal or storage.

• Dispose of the battery according to the local regulations. • Do not disassemble, recharge, heat or short the battery. Do not throw a battery into a fire or water.

In case of battery leakage • Thoroughly wipe the battery liquid off the battery case and insert

If any part of your body or clothing comes into contact with battery

liquid, wash it with plenty of water. If battery liquid comes into contact with your eyes, wash them with plenty of water and get immediate medical attention

Observe the following cautions when using USB

device. CO-RX400N CO-RX500N Do not connect a USB device directly to this unit. If the USB devic is connected directly to this unit and an accident occurs, or if the brakes are applied suddenly, the driver or passenger may bump into the USB device and may get injured.

 Position the USB device and USB extension cable so that they do not obstruct your driving. • Do not connect any USB device other than USB memory, a USB

audio player or iPod series (CQ-RX400N). Do not connect mu So not connect multiple uservices to the USB connector. Drawing power for multiple VSB devices from the connector could cause overheating and noking.

 \Box Set the volume level to low enough before the AUX

your speakers and your hearing. Direct connection of the speake

stallation of this unit requires special skills and experience. For

Given Follow the instructions to install and wire the product.

Take care not to damage the leads. When wiring, take care not to damage the leads. Provide the second secon

Use the designated parts and tools for installation.

FM Radio

AM (MW) Radio

AM (LW) Radio

Notes:

Power -

Pause

Direct Sales at Panasonic UK

Most major credit and debit cards accepted.

CQ-RX101N is option (CA-RC80N)

Notes:

www.panasonic.co.uk

It couldn't be simpler

:87.5 MHz – 108.0 MH :6 dB/µV (S/N 30 dB) :35 dB (at 1 kHz)

:531 kHz – 1 602 kHz :28 dB/µV (S/N 20 dB)

(32 dB/uV (S/N 20 dB))

Mute/attenuation

Track selection

Fast forward/fast reverse

Specifications and design are subject to modification without

Some figures and illustrations in this manual may be different from your product.

Bemote Control Unit for CO-BX200N/CO-BX103N/CO-BX102N/

The optional remote control is available from your local dealer. (CA-RC80N)

Order accessories and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday - Thursday

9:00am - 5:30pm, Friday 9:30am - 5:30pm. (Excluding public holidays)

Or go on line through our Internet Accessory ordering application at

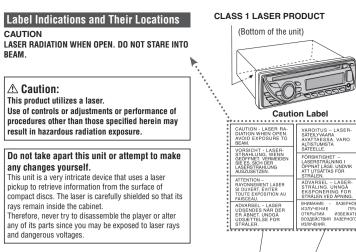
All enquiries, transactions and distribution facilities are provided directly by Panasonic UK Ltd.

Also available through our Internet is direct shopping for a wide range of

finished products, so take a browse on our website for further details.

(CA-RC80N

CO-RX200N CO-RX103N CO-RX102N CO-RX101N Request for use of the Removable Face Plate Case: . To avoid trouble and ensure safety, use the optional Removable Face Plate Case (YGFA134302)





Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households) icts and/or accompanying documents means that used electrical and electronic products should not be

- r proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer
- upon the purchase of an equivalent new product. posing of this product correctly will help to save valuable resources and prevent any potential negative effects on human alth and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point
- ties may be applicable for incorrect disposal of this waste, in accordance with national legislation.
- If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information. Information on Disposal in other Countries outside the European Union
- If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Features

SQ (Sound Quality)

SO3 (3-Band Sound Quality)

USB Connector

CQ-RX400N CQ-RX300N

Upgrade Guidebook) By connecting a USB men

the iPod series in your car.

CQ-RX400N

on Module (Hub Unit)

CQ-RX400N CQ-RX300N CQ-RX200N nection of the Expansion Module (hub unit, CY-EM100N) allows users to connect up to 4 optional devices shown below.

Wide Array of Components for System Upgrade CO-RX400N CO-RX300N CO-RX200N tain availability of wide range of stem upgrade. Upgrading the system delivers relaxed AV space nation refer to the separate System Ungrade Guidebook

• iPod The optional adaptor (Direct Cable for iPod: CA-DC300N) allows you to connect the optional iPod series. iPod is a trademark of Apple Inc., registered in the U.S. and other

 CD Changer The optional adaptor (Conversion Cable for DVD/CD Changer CA-CC30N) allows you to connect the optional Panasonic CD hanger unit (CX-DP880N).

Ising the optional Bluetooth Unit (CY-BT200N) and a Bluetooth

device enables hands-free telephony and Bluetooth Audio listening

AUX (AUX1) Input Terminal

You have 6 preset modes (FLAT, ROCK, POP, VOCAL, JAZZ, CLUB). You

you fine-tune sound quality for each genre to suit car-interior acou and your personal preferences. (→ "Sound Control")

USB extension cable (USB 2.0, not included), you can enjoy MP3/

for iPod (USB 2.0, not included), you can enjoy music files stored on

MA/AAC files stored on the USB memory (not included) in your car.

nize your settings for these and save them for instant recal

and level are adjustable in each of 3 bands. This let

or is equipped on the front panel. (\rightarrow System

ng iPod series to USB connector via a USB extension cable

nory (not included) to USB connector via a

The AUX input terminal is equipped on the front panel. Your mobile audio player and other devices are connectable to this unit without any difficulty.

Note: This unit does not support CY-BT100N.

Bluetooth®

with this unit

Bluetooth® The Bluetooth word mark and logo are owned by the Bluetooth SIG, Inc. and any use of such marks by Matsushita Electric Industrial Co Ltd. is under license. Other trademarks and trade name are those of their respective owners

Before Reading These Instructions

Panasonic welcomes you to our constantly growing family of electronic products owners

We endeavor to give you the duratages of precise electronic products where. 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. CO-RX400N CO-RX300N CO-RX200N

ks. One is "Operating Instructions" describing the operations of the main unit. The other is "System Upgrade Guidebook" describing the optional devices such as CD chang

Differences Among 6 Models										
his operating instruction manual is for 6 models CQ-RX400N, CQ-RX300N, CQ-RX200N, CQ-RX103N, CQ-RX102N and CQ-RX101N. All illustrations throughout nis manual represent model CQ-RX400N unless otherwise specified. The following table describes the differences among 6 models.										
Models CQ-RX400N CQ-RX300N CQ-RX200N CQ-RX103N CQ-RX102N CQ-RX101N										
Removable Face Plate Case	Included	Included	Not included	Not included	Not included	Not included				
Remote Control Unit	Included	Included	Not included	Not included	Not included	Not included				
System Upgrade Guidebook	Included	Included	Included	Not included	Not included	Not included				
System-up Connector	Supported	Supported	Supported	Not Supported	Not Supported	Not Supported				
Preamp Out Connector	2 (Front/Rear)	2 (Front/Rear)	1 (Rear)	1 (Rear)	1 (Rear)	1 (Rear)				
JSB Connector	Supported (USB iPod)	Supported	Not Supported	Not Supported	Not Supported	Not Supported				
AC playback	Supported	Supported	Not Supported	Not Supported	Not Supported	Not Supported				
utton logo colour Blue Red Red Blue Green Red										

Maintenance/Fuse

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

If the fuse blows out, consult your dealer, or your nearest authorized Panasonic Service Centu

54

• Use fuses of the same specified rating (15 A). Using substitutes or fuses with higher ratings, or connecting the unit direct without a fuse could cause fire or damage to the unit. If the replaced fuse fails, contact your nearest authorizer Panasonic Service Centre.

Anti-Theft Svstem

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

- Do not touch the contacts on the face plate and the main
- If dirt or other foreign substances get on the contacts, wipe them off with a clean and dry cloth.

Removing

Turn off the power.

3 Pull it out toward you.

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

Mounting

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

CQ-RX400N CQ-RX300N

1 Put the face plate in the case.

Press [1]. The face plate will open.

CQ-RX200N CQ-RX103N CQ-RX102N CQ-RX101N

* WMA 9 Professional/LossLess/Voice are not supported

Folder Selection Order/File Playback Order

ression method

PEG 1 Audio Layer-3 (MF

PEG 2 Audio Layer-3 (MP

PEG 2.5 Audio Layer-3 (MF

Windows Media Audio Ver. 2-9

Maximum number of files/folders

Maximum number of files in one folder

CD-media: 256 (Root folder is included.)

Maximum number of files: 999 Maximum number of files in one folder: 999

CQ-RX200N CQ-RX103N CQ-RX102N CQ-RX101N

· Maximum number of folders: 256 (Root folder is included.

playback by decreasing the quantity of files or folders, or the

This unit counts the number of folders irrespective of the

Inis unit counts the number of rolders irrespective of the presence or absence of an MP3/WMA/AAC file.
 If the selected folder does not contain any MP3/WMA/AAC files, the nearest MP3/WMA/AAC files in the order of playback will be played.
 Playback order may be different from other MP3/WMA/AAC

OT" appears when displaying the root folder name.

the folder count. Depending on the connected USB memory, the order in

which the files are played back may differ to the order in

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

on the USB memory are not included in

players even if the same disc is used.

You can shorten the duration between data read and

CQ-RX400N CQ-RX300N

CD-media: 999 USB device: 65 535

Maximum number of folders

CD-media: 999

Notes:

USB device: 999

depth of the hierarchy.

CQ-RX400N CQ-RX300N

which the files were stored.

Copyright



VBR Sampling frequency

Folder Selection

In the order 🎵 – [

Folder Selection

In the order $f_1 - f_5$

In the order 👩 – 👩

Tree 8 (Max.

Tree 8 (Max.

File Selection

USB-device CQ-RX400N CQ-RX300N

File Selection

Tree 1 Tree 2 Tree 3 Tree 4

Root folde

Root Directory)

Tree 1 Tree 2 Tree 3 Tree 4 Tree 5

displayability of MP3/WMA/AAC

No warranty

5 5

32 k - 320 kbps Yes 32, 44.1, 48 kHz

8 k - 160 kbps Yes 16, 22.05, 24 kHz

8 k - 160 kbps Yes 8, 11.025, 12 kHz

64 k – 160 kbps Yes 32, 44,1, 48 kHz

Root folde

(1) (Root Directory)

■CD-media

Bit rate

- AAC files which can be played on this unit have the ".m4a tension and were encoded with Apple iTunes® version The file extension for files encoded with the iTunes Apple less Encoder is ".m4a", but such files cannot be plave

your hearing. nes is a trademark of Apple Inc., registered in the U.S.

ws Media, and th dows logo are trademarks, o gistered trademarks of Microsoft prporation in the United States /or other countries/region

king MP3/

Files under copyright protection cannot be played \triangle Caution Never assign the ".mp3", ".wma" or ".m4a" file name extension to a file that is not in the MP3

WMA/AAC format. This may not only produce noise from the speaker damage, but also damag

nd other countries/regions





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• WMA (WMA tag) MP3/WMA/AAC Folder name Album name File name Title name/artist name AAC (Song information)

• MP3 (ID3 tag)

Album name

Album name Title name/artist name

Displayable characters

Displav In

• CD-TEXT

Disc title Track title

Displayed items

- Displayable length of file name/folder name: within 32 characters. (Unicoded file and folder names are reduced
- by half in the number of displayable characters. Name files and folders in accordance with the standard of
- ich file system. Refer to the instructions of writing software
- for details. ASCII character set and special characters in each language can be displayed.

• Some Cyrillic characters in the Unicode 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 Å à á â ã å

. Ò Ó Ô Õ Ö ò ó ô õ ö . Ù Ú Û Ü ù ú û ü

- With some software in which MP3/WMA/AAC format files
- displayed properly.
- an asterisk (🞇).
- than 8 characters (

omnression formats

nts to Remember When Making MP3/WMA/AAC Files" →Left) CQ-RX400N CQ-RX300N

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
MPEG 2.5 Audio Layer-3 (MP3)	8 k – 160 kbps	Yes	8, 11.025, 12 kHz
Windows Media Audio Ver. 2–9*	64 k – 160 kbps	Yes	32, 44.1, 48 kHz
MPEG 4 Advanced Audio Coding Low Complexity (AAC LC)	16 k – 320 kbps	Yes	8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz

* WMA 9 Professional/LossLess/Voice are not supported

ecording MP3/WMA/AAC Files on a CD-edia/USB-Device

ided to minimize the chances of makir You are recommended to minimize the chances of making a disc that contains both CD-DA files and MP3/WMA/AA

- If CD-DA files are on the same disc as MP3, WMA or AA files or the songs may not play in the intended order, or
- some songs may not play at all. When storing MP3 data, WMA data or AAC data on the same disc, use different folders for each data. • Do not record files other than MP3/WMA/AAC files and
- unnecessary folder on a disc. The name of an MP3/WMA/AAC file should be added by

rules as shown in the following descriptions and also comply with the rules of each file system.

• The file extension ".mp3", ".wma" or ".m4a" should be ssigned to each file depending on the file forma u may encounter trouble in playing MP3/WMA/AAC files of

ving the information of MP3/WMA/AAC files recorded with certain writing software or CD recorders. • This unit does not have a play list function.

· Although Multi-session recording is supported, the use of Disc-at-Once is recommended

Supported file systems

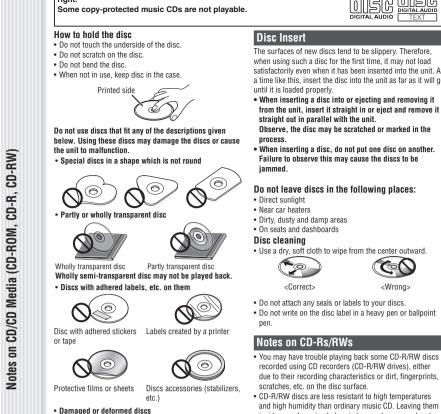
CD-media ISO 9660 Level 1/Level 2, Apple Extension to ISO 9660, Joliet, **Note:** Apple HFS, UDF 1.50, Mix CD and CD Extra are not

USB-device cq-rx400N Cq-rx300N

have been encoded, the character information may not be

Undisplayable characters and symbols will be converted into

- ed that the length of the file name is less



 0°

Discs with

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

- and high humidity than ordinary music CD. Leaving then inside a car for extended periods may damage and make
- The unit may not successfully playback 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 incompetition with one context. incompatible with one another. • This player cannot play the CD-R/RW discs if the session is
- not closed. Be sure to observe the handling instructions of CD-R/RW
- This player cannot play CD-B/BW discs which contain
- her than CD-DA or MP3/WMA/AAC data (Video CD, etc.

Troubleshooting

 \odot

Shoddily made discs

Ø.

If You Suspect Something Wrong

If You Suspect Something Wrong Check and take steps as described below. If the described suggestions do not solve the problem, it is recommended to take the unit to your nearest authorized Panasonic Service Centre. The product should be serviced only by qualified personnel. Please refer the checking and the repair to professionals. Panasonic shall not be liable for any accidents arising out of neglect of checking the unit or your own repair after your checking. Never take measures especially those other than indicated by *italic* letters in "Possible Solution" described below because thoses are too dangerous for users to below because those are too dangerous for users to

handle themselves.

Trouble	Possible Solution
Common	
No power	 Start the engine. (Or turn the ignition switch to the ACC position.) Verify the wining. (battery lead, power lead, ground lead, etc.) Fuse blown (Contact the nearest Panasonic Service Centre.) Ask a professional for fuse replacement. Be sure to use the same rated fuse.
No sound	Disable the mute function. Verify the wiring. Wait until the dew disappears before turning on the unit.
Noise	• Make sure that grounding is established properly.
No sound from left, right, front, or rear speaker	 Adjust the balance and fader. Verify the wiring.
Left and right sounds are reversed	Connect the speaker lead correctly.
Disc Player	
No sound, or disc is automatically ejected	Load the disc correctly. Clean the disc.
Sound skip, poor sound quality	• Clean the disc.
Sound skip due to vibration	 The maximum permissible tilt angle is 30°. Secure the unit.
Disc not ejectable	• Press [▲]. If the disc is still not ejected, contact the nearest Panasonic Service Centre.

A Warning

- Do not use the unit in an irregular condition, for example, without sound, or with smoke or a foul smell, which can cause ignition or electric shock. Immediately stop using the unit and consult vour dealer.
- Never try to repair the unit by yourself because it is dangerous to do so.

Trouble	Possible Solution
Radio	
Frequent noise	 Tune in to another station of high-intensity waves. Make sure that the antenna mounted point is grounded properly.
Preset data deleted	The preset memory is cleared to return to the original factory setting when the power connector or battery is disconnected.
Error Display M	essages (Disc Player)
CITUL DISPLAY IN	essayes (Disc Flayel)
-E I-	(The disc is ejected automatically.) The disc is dirty or upside down. • Check the disc.
-62-	(The disc is ejected automatically.) The disc has scratches. • Check the disc.
-E3-	No operation by some cause. • If normal operation is not restored, consult your dealer or the nearest Service Centre to ask for repairs.
- <u>E</u> 4-	Cannot read the file • Check the disc.
- <u>E5-</u>	A WMA/AAC file can be copyrighted. • The file protected by copyright is not playable.

CQ-RX400N CQ-RX300N CQ-RX200N

Above description complies with our investigations as of September 2007. It has no warranty for reproducibility and

Radio (AM [LW/MW]/FM) General Preparation CQ-RX400N CQ-RX300N CQ-RX200N 1 Set your car's ignition switch to the ACC or ON position. 2 Press [SRC] (PWR: Power). AUX1 Connector (3.5 mm & stereo) ote: For information about connectable devices, refer to /audio device (ex. Silicon· selects a source m line output of external so the System Upgrade Guidebook or the instruction manua audio player, HDD player, etc.) for each device Note: The connector is labeled "AUX1", but it appears on the display as "<AUX IN>" (→ Below [SRC1 (Source) -DISP1 (Display) selects a source witches the information on the [PWR] (Power) toggles power on/off. CQ-RX400N CQ-RX300N CQ-RX200N The demonstration message concern display. age appears for initial 4 Press [VOL] (PUSH SEL: Select) to select DEMO. [BAND] -----use. **1** Set your car's ignition switch to the ACC or **5** Turn [VOL] counterclockwise. For using the remote control, press [0] (\checkmark). hand in the radio source [TA/AF] -[APM] (Auto Preset Me "Radio Data System source. (Hold it N position (RDS) in FM Broadcast Press [SRC] (PWR: Power). **∧** Caution CQ-RX400N CQ-RX300N CQ-RX200N T FIJITO CO-RX300N CO-RX200N • To return to the regular mode, press [DISP]. Set the volume level to low enough before the AUX (AUX IN) (Refer to the sectio lure to observe this, the loud noise may come out and CQ-RX103N CQ-RX102N CQ-RX101N • When "NO USB" (CQ-RX400N CQ-RX300N) or "NO 3 Hold down [VOL] (PUSH SEL: Select) for mage your speakers and your hearing. DISC" is displa (AHX TN) 2 sec. or more to open the function menu **3** Select a station Power On/Off Volume Adjustment CQ-RX400N CQ-RX300N Setting Range: 0 to 40. Default: 18 Note: Battery Information: Battery Type: Panasonic lithium battery (CR2025) (Included Power on: Press [SRC1 (PWR) Turn [VOL]. Power off: Hold down [SRC] (PWR) for more Pull the insulation film out from the backside of the remote control in the remote control) Battery Life: Approximately 6 months under normal use (at than 1 second. room temperature) Source Selection Press [SRC] to change the source. USB Connector CQ-RX400N CQ-RX300N AM (LW/MW) mode CQ-RX400N CQ-RX300N FIM SHO Band/ Disc Player Radio 153 E 15 CT (Clock The 24-hour system is used for the clock. System-up orv is not connected 5 Press [DISP]. 🗧 AUX 1* 🧲 USB Connector NO US3 Select the radio AM mode. (→ "Radio (AM [LW/MW]/FM)"). Connector CT BID Minute blinks Note: Select USB Connector mode to operate the iPod AM 540 CQ-RX400N CQ-RX300N CQ-RX200N eries connected with USB connector. (-> System Ungrade 6 Adjust the minute. Guidebook) When an optional device is connected Press [DISP]. ET BIS Minute entered Clock display) CQ-RX200N → Disc Player CHRMGER Radio 3 Hold down [DISP] for more than [▶▶]: sets the minute ahead. [I◀◀]: sets the minute back. 2 seconds. System-up Connector 🖌 AUX 1* IPD3 $\Box T = \Box \Box \Box \Box$ 7 Press [DISP]. Select a band. E: 15 Completed <u> ЭГПЕТООТн</u> CQ-RX103N CQ-RX102N CQ-RX101N **4** Adjust the hour. 2 seconds. The preset stations under best receiving conditions are received for 5 seconds each after presetting the stations (SCAN). To stop scanning, press one of the buttons from [1] to [6]. Radio \rightarrow Disc Player \rightarrow AUX* When an expansion module is connected ET = EED Hour entered "NO CT" is displayed before adjusting the clock The devices connected to the ports 1 to 4 are activated in sequence after shifting to AUX2 (device connected to the AUX terminal of the expansion module). When a broadcast of FM Radio Data System is received, the clock is adjusted automatically by the Clock Time [▶▶|]: sets the hour ahead. [I◀◀]: sets the hour back. Hold down [| < 1 or [>>| 1 to change numbers rapidly

Remote Control Unit CQ-RX400N CQ-RX300N

SRC1 (SOURCE)

ales power on

(POWER)

[MENU] (SEL: Select) elects the items in the audio menu

ogales mute on/off.

[DISP] (Display)

Keep batteries and insulation film out of reach of infants

atteries and insulation film can be ingested, so keep em out of the reach of infants. If an infant ingests a

ove and dispose of an old battery immediately.

not disassemble, heat or short a battery. Do not row a battery into a fire or water. Ilow local regulations when disposing of a battery.

nproper use of batteries may cause overheating, an

Battery Type: Panasonic lithium battery (CR2025) (Included

Battery Life: Approximately 6 months under normal use (at

explosion or ignition, resulting in injury or a fire.

in the remote control)

room temperature)

- [MUTE]

Put a battery in the

facing up. 9 Put the case back.

A Warning

▲ Caution

Notes: Battery Information:

ase with (+) side

-[VOL] (volume) adjusts the volume, and selects the value in the audio menu, etc.

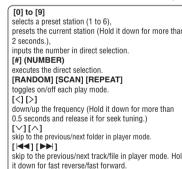
(Only for remote control unit) Note: You can select mute or attenuation. (→ "Function Settings"

switches the information on display, and exits the audio menu.

 (\times)

• This instruction manual explains operations for use with the buttons on the main unit. (Different operations excluded) · Aim the remote control at the remote sensor and operate it.

[BAND] (SET) executes the APM (Auto Preset Memory) in tuner source, (Hold it down for more than 2 seconds).



s/next track/file in player mode. Hold Direct Access A track (CD mode), file, folder (MP3/WMA/AAC mode) can be directly selected

Example: Track number 5 Press [#] (NUMBER). Press [5].

3 Press [BAND] (SET).

Notes: • To suspend direct selection, press [DISP]. • For folder selection, enter a number after pressing [#] (NUMBER) twice.

Functions only on Main unit wing functions are not available on remote • Scroll • Tag on/off

Battery Replacement Bemove the battery holder with e remote control unit placed o Stick your thumbnail into the groove, and push the holder in the direction of the arrow, and at the same

• Disc ejec

② Pull it out in the direction of the arrow using a tough pointed object. Back side

Radio Data System (RDS) in FM Broadcasting

Useful functions such as **AF. TA. PTY** are available in the RDS (Radio Data System)-ready areas.

Some FM stations are broadcasting added data compatible with RDS. This radio set offers convenient functions using such data. RDS service availability varies with areas. Please understand if RDS service is not available in your area, the following service is not available, either. The following functions are available when receiving RDS stations.

AF (Alternative Frequency) PTY (Programme Type)

tions are available when the AF mode is

- ctive (AF lights) When receiving conditions become bad, a station with better
 The PTY of receiving station appears
- receiving conditions is automatically tuned in to. When executing APM, only BDS stations are selected.
- When calling up a preset station, a best receiving station is selected automatically. (BSR Best Stations Research)
- The AF sensitivity can be adjusted • The AF available range can be adjusted. (\rightarrow "Function

Settings")

TA (Traffic Anno në following fi ctive (**TA** light

A TP station is automatically searched for and received at the instant of toggling the TA mode on if you are receiving a non-TP station or TP station with poor reception. When executing station search or APM, only TP stations are
 can be received

Setting to TA on with the unit in another mode, it will

Emergency Announcement Reception automatically switch to radio mode and output the traffic announcement when the traffic announcement begins. The traffic announcement having finished, the unit will return to the previous mode. (TA Standby Mode)

> PI Seek (Programme Identification Seek) press the same preset number button. The same station with ter reception will be searched for s same preset number button again to cancel.

PI SEEK

(blinks)

Programs can be searched for by PTY

clock is automatically adjusted

PS (Programme Service Name)

EON (Enhanced Other Network)

CT (Clock Time)

current position

Other functions of RDS

Note: PTY language can be selected. (→ "Function Settings")

well as the frequency, the name of the broadcast stat

nstantly in response to the

ion from the current and other network station

ement automatically appears on the

` AF2 ON ligh level AF operatin È AF OFF

When the AF network of an RDS station is not

ld down [TA] (AF) for more than 2 seconds to select A

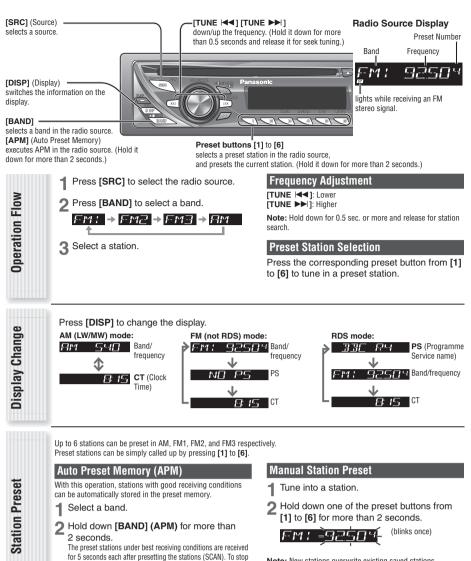
Low level AF operating sensitivity. (Default)

AF Level

AF LON

Note: For PI Seek, cancel the TA mode first, then execute PI





Note: New stations overwrite existing saved stations

	 Traffic information is available in monaural. Adjust the TA volume only while receiving a 1
1	PTY On/Off
	Holding down [DISP] (PTY) for more than 2 toggles PTY mode on and off.

Programme Search by PTY an be searched for by use of PT

Press [1] to [6] to select PTY in the PTY

mo	de.		OLDIES \rightarrow FOLK M \rightarrow DOCUMENT
	Programme Type	Contents	
1	NEWS	NEWS	2 Press [BAND]. Search starts.
2	SPEECH	AFFAIRS, INFO, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, DOCUMENT	Search starts. Notes: • To stop searching, press [BAND] (SET). • When there is no corresponding programme type station "NONE" is displayed.
3	SPORT	SPORT	
4	POP M	POP M	PTY Preset Change
5	CLASSICS	CLASSICS	Original PTY presets can be changed as you like.
6	MUSIC	ROCK M, EASY M, LIGHT M, OTHER M, JAZZ, COUNTRY, NATION M, OLDIES, FOLK M	 Select a PTY that you would like to prese Follow the procedure of ordinary
۱no	ther station in the sam	a PTV is searched for by pressing	presetting. (→ "Station Preset" in "Radio

[BAND]

 When there is no corresponding programme type station "NONE" is displayed. · A desired PTY appears for 5 seconds.

Note: New stations overwrite existing saved station

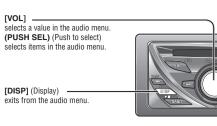
TA On/Off	Traffic Information Only (TA Mute)
Pressing [TA] toggles TA on and off.	For listening to only traffic information, activate TA and set the volume to 0 in FM mode.
Notes: • This operation is not adjustable by the remote control. • Traffic information is available in monaural. • Adjust the TA volume only while receiving a TA.	Once traffic information starts, the volume changes to the TA volume.
PTY On/Off	Detailed PTY Selection
Holding down [DISP] (PTY) for more than 2 seconds toggles PTY mode on and off.	Press [I◄◄] or [►►I] to select PTY.

1	→SPEECH	\rightarrow	MUSIC →	NEWS	\rightarrow	AFFAIRS →	
	INFO	\rightarrow	SPORT →	EDUCATE	\rightarrow	DRAMA →	
	CULTURE	\rightarrow	SCIENCE →	VARIED	\rightarrow	POP M \rightarrow	
	ROCK M	\rightarrow	EASY M →	LIGHT M	\rightarrow	CLASSICS \rightarrow	
	OTHER M	\rightarrow	WEATHER→	FINANCE	\rightarrow	CHILDREN \rightarrow	
	SOCIAL	\rightarrow	RELIGION →	PHONE IN	\rightarrow	TRAVEL →	
	LEISURE	\rightarrow	JAZZ →	COUNTRY	\rightarrow	NATION M \rightarrow	
1	OLDIES	\rightarrow	$FOLK\;M \ \to \\$	DOCUMEN	r —		
Press [BAND].							

Preset Change

I PTY presets can be changed as you like. elect a PTY that you would like to preset ollow the procedure of ordinary ¹ presetting. (→ "Station Preset" in "Radio (AM [LW/MW]/FM)")

Audio Settings

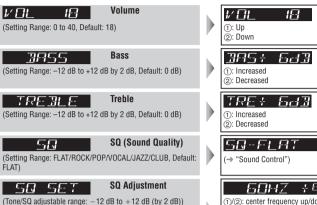


CQ-RX400N CQ-RX300N CQ-RX200N on the conditions of devices to be connected. For further information, refer to the **System Upgrade Guidebook** or

CQ-RX200N CQ-RX103N CQ-RX102N CQ-RX101N If the fader is set to front, the pre-amp. output (rear) is

1 Press [VOL] (PUSH SEL) to open the audio menu. Note: If no operation takes place for more than 5 seconds in audio setting (2 seconds in the volume adjustment, 10 seconds in the SQ adjustment), the display returns to the regular mode.

2 Press [VOL] (PUSH SEL) to select a mode to be adjusted. 3 Turn [VOL] clockwise or counterclockwise to adjust.

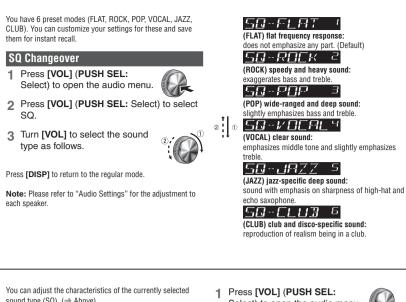


SQ-FLAT (60HZ +5 [Idd] [Idd] : Band selection etting range: Q Low/Bass: ±12 dB (at 60 Hz, 80 Hz, 100 Hz, 200 Hz) ✓1: Level up/dowr SQ Mid: ±12 dB (at 500 Hz, 1 kHz, 2 kHz, 3 kHz) SQ High/Treble: ±12 dB (at 10 kHz, 12 kHz, 15 kHz, 18 kHz) 39L L 15

FA] F (S

For further information on SQ (Sound Quality) settings, refer to "Sound Control".
Do not activate SQ and Bass/Treble at the same time to avoid causing sound distortion.

Sound Control



sound type (SQ). (\rightarrow Above) It is also possible to preset up to 5 different adjusted SQs.

SQ3 (3-Band Sound Quality)

ter frequency and level are adju This lets you fine-tune sound quality for each genre to suit car-interior acoustics and your personal preone/SQ adjustable range: -12 dB to + 12 dB (by 2 dB) SQ Low/Bass: ±12 dB (at 60 Hz, 80 Hz, 100 Hz, 200 Hz) SQ Mid: ±12 dB (at 500 Hz, 1 kHz, 2 kHz, 3 kHz) SQ High/Treble: ±12 dB (at 10 kHz, 12 kHz, 15 kHz, 18 kHz) • The bass/treble control level of each frequency is fixed to the frequency that has been selected for SQ.

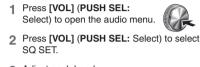
To return an adjusted SQ to the default setting ©Select the SQ which is to be returned to the default setting. (Follow steps 1 to 3 in "SQ Changeover". → Above) @Hold down [BAND] for 2 sec. or more.

• You cannot save any SQ presetting value in [1] button.

· Any SQ adjustments will not change the call up screer names such as ROCK and JAZZ.

CD-DA Mode Display

Do not activate SQ and Bass/Treble at the same time to avoid



3 Adjust each band. center frequency un/down [| | | | | | | | | | | | Band selection ∧] [∨]: Level up/down

4 Hold down the numeric button [2] to [6] for 2 sec or more

 The adjusted SQ is preset in the number of the selected SQ Adjustment will not be saved unless it is preset. Always preset after making adjustments.

Player (Disc Player)

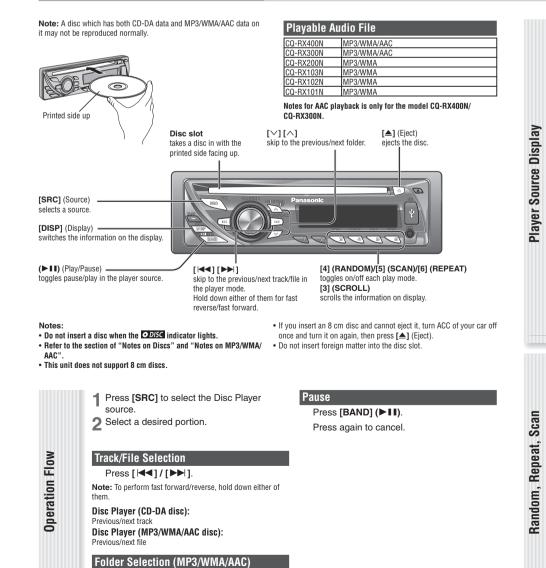
Q Mid:

BREPRICE Balance

FABER Fader

Setting Range: 15 levels each, Default: CNT (centre))

s each. Default: CNT (centre))



Ights when the disc is loaded. Disc Track number Play time Play Mode indicators MP3/WMA/AAC Mode Display Plsc Folder number Folder number File number Play Mode indicators Lights when folder random/repeat/scan is on.	Press [I Disc Pla (CD-DA)	disc):	0	Disc Player (N disc):	Folder name/ Album* File name/ Title, artist* File Clock AC Tag On/Off 3] for more nds.
		lling text, pre T" is displaye		folder nan displayed.	
Random Play NI the available songs (tracks/files) are played in a re sequence. Press [4] (RANDOM). Press again to cancel.		The current Hold of 2 seco	folder is rep down [6] (onds.	lay (MP3/WN eated. (REPEAT) for in to cancel.	
Folder Random Play (MP3/WMA/AA All the available files in current folder are played in a sequence. Hold down [4] (RANDOM) for more f 2 seconds. Hold down again to cancel.	random	sequence. Press Press	seconds of e [5] (SCA again to		,

Display Change

Repeat Play Press [6] (REPEAT) Press again to cancel

/AAC) the next folder, the first 10 seconds of the first file i each folder is played in sequenc Hold down [5] (SCAN) for more than 2 seconds. Hold down again to cancel

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Press $[\vee]/[\wedge]$

Function Settings

elects a value in the function menu (PUSH SEL) (Push to select) selects items in the function menu

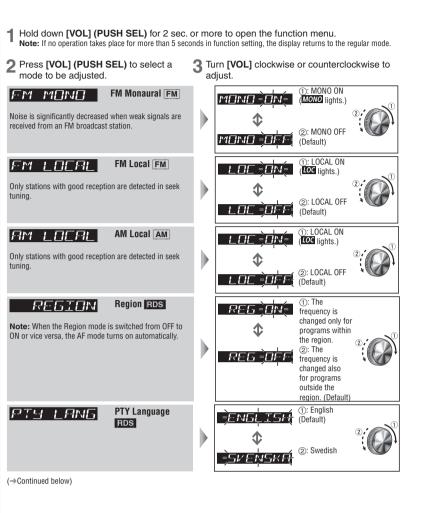


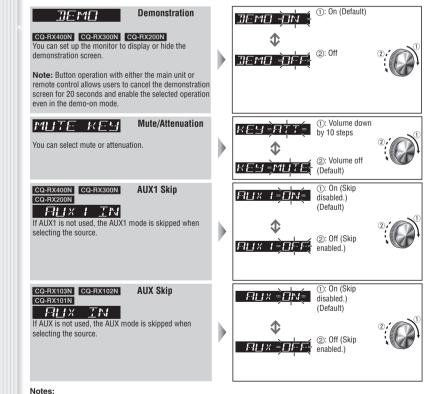
[**DISP]** (Display) ______ exits from the function menu.











CQ-RX400N CQ-RX300N CQ-RX200N

may depend on the conditions of devices to be connected. For furthe sequence and contents of setting items may depend on the mation, refer to the **System Upgrade Guidebook** or the in-

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