Model: CQ-RX121W/CQ-RX122W CQ-RX220W/CQ-RX221W/

(CQ-RX420W)

Instruction kit Operating Instructions (English: YGFM286163) (Русский: YGFM286164)\* \*Not supplied with CQ-RX225W. System Upgrade Guidebook CQ-RX420W Operating Instructions USB CQ-RX320W CQ-RX321W CQ-RX322W **Installation Instructions** (YGFM294539)

Rubber Bushing

without prior notice due to improvements.

Face Plate Case (YGFA134302)

Frequency range Usable sensitivi Stereo separation CQ-RX420W CQ-RX320W CQ-RX220W

SQ High/Treble: ±12 dB

USB Standard Compatibility :1.1/2.0 Full Speed Maximum Supply Current :500 mA

Front AUX input Input impedance Allowable external input :2.0 V 3.5 mm  $\phi$  Stereo mini-pir Dimensions (W x H x D) :178 x 50 x 160 mm :1.2 kg

Sampling frequency DA converter Pick-up type Light source Wave length Frequency response Signal to noise ratio

1 bit DAC System : Astigma 3-beam :Semiconductor laser Total harmonic distortion :0.01 % (1 kHz)

8 times oversampling :20 Hz - 20 kHz (±1 dB) : Below measurable limits

(Source)

CQ-RX220W CQ-RX221W CQ-RX222W CQ-RX121W Request for use of the Removable Face Plate Case: To avoid trouble and ensure safety, use the optional Removable

:87.50 MHz - 108.00 MHz

:6 dB/uV (S/N 30 dB)

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

:153 kHz – 279 kHz :32 dB/µV (S/N 20 dB)

:35 dB (at 1 kHz)

Removable Face Plate Case

(YGFA134302)

AM (LW) Radi

from your product.

Read 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 instructions given in this manual.

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

**A** Warning

Observe the following warnings when using this ☐ The driver should neither watch the display nor operate

the system while driving. Watching the display or operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before watching the display or operating the system.

**□Use the proper power supply.** This product is designed for operation with a negative grounded 12 V DC battery system. Never operate this product with other battery systems, especially a 24 V DC battery system.

Keep batteries and insulation film out of reach of infants. Batteries and insulation film can be ingested, so keep them out of the reach of infants. If an infant ingests a battery or insulation film, please seek immediate medical attention. □Protect the Deck Mechanism. Do not insert any foreign objects into the slot of this unit.

□Do not disassemble or modify the unit. Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer or an authorized Panasonic Service Center. □Do not use the unit when it is out of order.

If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealer. ☐ The remote control unit should not lie about in the car. If the remote control unit lies about, it could fall on the floor while driving, get wedged under the brake pedal, and lead to a traffic

□Refer fuse replacement to qualified service personnel. When the fuse blows out, eliminate the cause and have it replaced with the fuse prescribed for this unit by a qualified service engineer. Incorrect replacement of the fuse may lead to smoke, fire, and damage to the product.

connections and operations. The meanings of the pictographs are explained below. It is important that you fully understand the meanings of the pictographs in order to use this manual and the system properly.

This manual uses pictographs to show you how to use the product

safely and to alert you to potential dangers resulting from improper

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

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

Wiring and installation with the negative (–) battery terminal connected may cause electrical shock and injury due to a short circuit. Some cars equipped with the electrical safety system have 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. Do not use safety-related vehicle components (fuel tank, brake, suspension, steering wheel, pedals, airbag, etc.) for wiring or

fixing the product or its accessories. □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 wire the product, first check where the wire harness, gasoline tank, and electric wiring are located. Then open the hole from outside

with your field of vision. □Never have the power cord branched to supply other equipment with power. □After installation and wiring, you should check the

normal operation of other electrical equipment. The continuation of their using in abnormal conditions may cause fire, electrical shock or a traffic accident. □In the case of installation to an airbag-equipping car, confirm warnings and cautions of the vehicle

∴ Caution

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

can customize your settings for these and save them for instant recall. SQ3 (3-Band Sound Quality) enter frequency and level are adjustable in each of 3 bands. This lets

and your personal preferences. (→ "Sound Control")

e USB Connector is equipped on the front panel. (→ System Upgrade Guidebook)

(→ Operating Instructions USB) By connecting a USB memory (not included) to USB connector via a

■Never install the product in a location where it interferes

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

nsion Module (Hub Unit) ou have 6 preset modes (FLAT, ROCK, POP, VOCAL, JAZZ, CLUB). You

you fine-tune sound quality for each genre to suit car-interior acoustics Wide Array of Components for System Upgrade

CQ-RX320W CQ-RX321W CQ-RX322W USB Connector is equipped on the front panel.

USB extension cable (USB 2.0, not included), you can enjoy MP3/ WMA/AAC files ( CQ-RX420W ), MP3/WMA files ( CQ-RX320W CQ-RX321W | CQ-RX322W ) stored on the USB memory (not ncluded) in vour car.

The AUX input terminal is equipped on the front panel.

for iPod (USB 2.0, not included), you can enjoy music files stored on the iPod series in your car. AUX (AUX1) Input Terminal

Your mobile audio player and other devices are connectable to this unit without any difficulty.

Connection of the Expansion Module (hub unit, CY-EM100N) allows users to connect up to 4 optional devices shown below.

arious optional components allow users to obtain availability of wide range of system upgrade. Upgrading the system delivers relaxed AV

Jpgrade Guidebook. 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

Bluetooth<sup>®</sup>

space in a car. For further information, refer to the separate **System** 

changer unit (CX-DP880N).

by connecting iPod series to USB connector via a USB extension cable

Using the optional Bluetooth Unit (CY-BT200N) and a Bluetooth device enables hands-free telephony and Bluetooth Audio listening with this unit. **Note:** This unit does not support CY-BT100N

> The Bluetooth word mark and logo are owned by the Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation 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 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.

CQ-RX420W CQ-RX320W CQ-RX321W CQ-RX322W struction manual consists of 2 books. One is "Operating Instructions" describing the operations of the main unit.

The other is "System Upgrade Guidebook" describing the optional devices such as CD changer. (CO-RX420W) The other is "Operating Instructions USB" describing the USB connector on the front panel. (CQ-RX320W CQ-RX321W CQ-RX322W)

ferences Among 10 Models

Preamp Out Connector

USB Connector

Button logo color

IAAC playback

This operating instruction manual is for 10 models CQ-RX420W, CQ-RX320W, CQ-RX321W, CQ-RX322W, CQ-RX220W, CQ-RX221W, CQ-RX222W, CQ-RX225W, CQ-RX121W and CQ-RX122W. All illustrations throughout this manual represent model CQ-RX420W unless otherwise specified. The following table describes the differences among 10 models.

Models Features	CQ-RX420W	CQ-RX320W	CQ-RX321W	CQ-RX322W	CQ-RX220W
Removable Face Plate Case	Included	Included	Included	Included	Not included
Remote Control Unit	Included	Included	Included	Included	Not included
System Upgrade Guidebook	Included	Not included	Not included	Not included	Not included
Operating Instructions USB	Not included	Included	Included	Included	Not included
System-up Connector	Supported	Not Supported	Not Supported	Not Supported	Not Supported
Preamp Out Connector	2 (Front/Rear)	1 (Rear)	1 (Rear)	1 (Rear)	1 (Rear)
USB Connector	Supported (USB iPod)	Supported	Supported	Supported	Not Supported
AAC playback	Supported	Not Supported	Not Supported	Not Supported	Not Supported
RDS	Supported	Supported	Not Supported	Not Supported	Supported
Button logo color	Blue	Blue	Red	Green	Blue
Models Features	CQ-RX221W	CQ-RX222W	CQ-RX225W	CQ-RX121W	CQ-RX122W
Removable Face Plate Case	Not included	Not included	Included	Not included	Not included
Remote Control Unit	Not included	Not included	Included	Not included	Not included

Not Supported

Not Supported

## 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 Center.

■ Warning

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

Pull it out toward you.

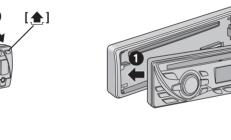
This unit is equipped with a removable face plate. Removing this face plate makes the unit totally inoperable.

 Do not touch the contacts on the face plate and the main unit, since this may result in poor electrical contact. • If dirt or other foreign substances get on the contacts, wipe them off with a clean and dry cloth.

Turn off the power. Press [ ]. The face plate will open.

Put the face plate in the case.

X420W CQ-RX320W CQ-RX321W CQ-RX322W



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

Press the right end of face plate until a

"click" is heard.

## Partly or wholly transparent disc

or tape

before use.

If You Suspect Something Wrong

Check and take steps as described below

recommended to take the unit to your nearest authorized Panasonic

personnel. Please refer the checking and the repair to professionals.

Panasonic shall not be liable for any accidents arising out of neglect

Possible Solution

• Start the engine. (Or turn the ignition

Be sure to use the same rated fuse.

The maximum permissible tilt angle is

switch to the ACC position.)

lead, ground lead, etc.)

Disable the mute function.

Adjust the balance and fader

Service Center.)

Verify the wiring.

turning on the unit.

Verify the wiring.

Secure the uni

**No sound, or disc** • Load the disc correctly.

is automatically • Clean the disc.

Sound skip, poor | • Clean the disc.

Service Center. The product should be serviced only by qualified

of checking the unit or your own repair after your checking.

Wholly transparent disc Partly transparent disc Wholly semi-transparent disc may not be played back Discs with adhered labels, etc. on them

Disc with adhered stickers Labels created by a printer

Damaged or deformed discs



Discs with burrs Please remove the burrs

How to hold the disc

· Do not scratch on the disc

Do not bend the disc.

the unit to malfunction.

• Do not touch the underside of the disc.

. When not in use, keep disc in the case.

Printed side

The surfaces of new discs tend to be slippery. Therefore,

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

Some copy-protected music CDs are not playable.

Do not use discs that fit any of the descriptions given

Special discs in a shape which is not round

below. Using these discs may damage the discs or cause

when using such a disc for the first time, it may not load satisfactorily even when it has been inserted into the unit. A a time like this, insert the disc into the unit as far as it will go until it is loaded properly.

straight out in parallel with the unit. Observe, the disc may be scratched or marked in the • When inserting a disc, do not put one disc on another. Failure to observe this may cause the discs to be

When inserting a disc into or ejecting and removing i

from the unit, insert it straight in or eject and remove it

Do not leave discs in the following places

 Direct sunlight Near car heaters Dirty, dusty and damp areas

 On seats and dashboards Disc cleaning • Use a dry, soft cloth to wipe from the center outward.

> <Correct> <Wrong>

 Do not attach any seals or labels to your discs. Do not write on the disc label in a heavy pen or ballpoint

CD-R/RW discs are less resistant to high temperatures

otes on CD-Rs/RWs You may have trouble playing back some CD-R/RW discs recorded using CD recorders (CD-R/RW drives), either due to their recording characteristics or dirt, fingerprints

scratches, etc. on the disc surface.

and high humidity than ordinary music CD. Leaving them inside a car for extended periods may damage and make playback impossible. 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 incompatible with one another. • This player cannot play the CD-R/RW discs if the session is

 Be sure to observe the handling instructions of CD-R/RW • This player cannot play CD-R/RW discs which contain

# other than CD-DA or MP3/WMA/AAC data (Video CD, etc.)

General	
Power supply	:DC 12 V (11 V – 16 V DC), test voltage 14.4 V, negative ground
Current consumption	:Less than 2.1 A (CD mode; 0.5 W x 4 channels)
Maximum power output	:50 W x 4 channels (at 1 kHz),
Power output Tone/SQ adjustment range	:18 W x 4 CH (1 kHz, 1 %, 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)

:531 kHz – 1 602 kHz :28 dB/µV (S/N 20 dB) -requency range Specifications and design are subject to modification without notice due to improvements.

> (CA-RC80N) Track selection Fast forward/fast reverse

> > Remote Control Unit for CQ-RX220W/CQ-RX221W/ CQ-RX222W/CQ-RX121W/CQ-RX122W is option (CA-RC80N). • The optional remote control is available from your local dealer. (CA-RC80N)

> > > Printed in China

Some figures and illustrations in this manual may be different

 $\triangle$  Caution

This unit is designed for use exclusively in automobiles.

□Do not operate the unit for a prolonged period with the engine turned off.

> it may lead to smoke, fire, or other damage to the unit. moisture, or dust

> > □Set the volume level to low enough before the AUX connection is completed. Failure to observe this, the loud noise may come out and damage

headphone output of an external device without any attenuator may distort sound or damage the connected external device. Observe the following cautions when installing

Installation of this unit requires special skills and experience. For maximum safety, have it installed by your dealer. Panasonic is not liable

• If any part of your body or clothing comes into contact with battery for any problems resulting from your own installation of the unit. □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. Prevent them from getting caught in the vehicle chassis, screws, and moving 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

□Use the designated parts and tools for installation. 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 installation 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 interior of the unit to overheat

□Do not install the product where it is exposed to strong

Avoid slanted or strongly curved surfaces for installation. If the

installation is not stable, the unit may fall down while driving and

vibrations or is unstable.

this can lead to an accident or injury.

Observe the following cautions when using this unit → Keep the sound volume at an appropriate level. Keep the volume level low enough to be aware of road and traffic conditions while driving.

Operating the audio system for a long period of time with the engine turned off will drain the battery. □Do not expose the unit to direct sunlight or excessive heat. Otherwise these will raise the interior temperature of the unit, and

□Do not use the product where it is exposed to water, Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.

your speakers and your hearing. Direct connection of the speaker/

Not following the instructions to properly install and wire the

leads by winding them with vinyl tape or similar protection.

and will result in fire or other damage.

he product should be installed in a horizontal position with the ront end up at a convenient angle, but not more than 30°. he user should bear in mind that in some areas there may be restrictions on how and where this unit must be installed. Consult your dealer for further details.

**⊇Wear gloves for safety. Make sure that wiring is** 

 Use only specified battery (CR2025). Match the polarity of the battery with the (+) and (-) marks in the battery case. Replace a dead battery as soon as possible

them with vinvl 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

□Refer wiring and installation to qualified service liquid, wash it with plenty of water.

product could cause an accident or fire.

completed before installation. □To prevent damage to the unit, do not connect the power connector until the whole wiring is completed. □Do not connect more than one speaker to one set of speaker leads. (except for connecting to a tweeter)

battery for the remote control unit. CQ-RX420W CQ-RX320W CQ-RX321W CQ-RX322W

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

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 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

CQ-RX420W CQ-RX320W CQ-RX321W CQ-RX322W Do not connect a USB device directly to this unit. If the USB device 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.

multiple USB devices from the connector could cause overheating • Do not suddenly disconenct the USB device while "READING" is displayed, or perform an operation immediately after connecting the USB device. USB device is not recognized correctly.

Do not connect any USB device other than USB memory, a USB

audio player or iPod series (CQ-RX420W). Do not connect

multiple USB devices to the USB connector. Drawing power for

Notes on MP3/WMA/AAC

Notes for AAC playback is only for the model CQ-RX420W. What is MP3/WMA/AAC? MP3\* (MPEG Audio Layer-3) and WMA (Windows Media™ Audio) are the compression formats of digital audio. The former is developed by MPEG (Motion Picture Experts Group), and the latter is developed by Microsoft Corporation. Using these compression formats, you can record the contents of about

10 music CDs on a single CD media (This figures refer to data

recorded on a 650 MB CD-R or CD-RW at a fixed bit rate of

128 kbps and a sampling frequency of 44.1 kHz). \*MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

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.

ints to Remember When Making MP3

High bit rate and high sampling frequency are recommended

 Selecting VBR (Variable Bit Rate) is not recommended because playing time is not displayed properly and sound may be skipped. The playback sound quality differs depending on the encoding circumstances. For details, refer to the instructions of your own encoding software and writing software.

It is recommended to set the bit rate to "128 kbps or more"

It is recommended to set the bit rate to "64 kbps or more"

Do not set the copy protect attribute on the WMA file to

for high quality sounds.

enable this unit to play back.

and "fixed".

• It is recommended to set the bit rate to "128 kbps or more"

and "fixed". . The formats and extensions for AAC data vary according to the encoder software used. • AAC files which can be played on this unit have the ".m4a" extension and were encoded with Apple iTunes® version 7 The file extension for files encoded with the iTunes Apple Lossless Encoder is ".m4a", but such files cannot be played

 Files under copyright protection cannot be played.  $ilde{L}$  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

Tunes is a trademark of Apple Inc., registered in the U.S. and other countries/regions.

noise from the speaker damage, but also damage

on this player.

Vindows Media, and th

Vindows logo are trademarks, or

Corporation in the United States

and/or other countries/regions.

egistered trademarks of Microsoft

Folder name

File name

Not Supported

Not Supported

Not Supported

Displayed items CD-TEXT MP3 (ID3 tag) Disc title Album name Track title Title name/artist name MP3/WMA/AAC WMA (WMA tag)

Album name

Title name/artist name AAC (Song information) Album name Title name/artist name Displayable characters

• Displayable length of file name/folder name: within

by half in the number of displayable characters.) Name files and folders in accordance with the standard of each file system. Refer to the instructions of writing software ASCII character set and special characters in each language

32 characters. (Unicoded file and folder names are reduced

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** ÀÁÂÃÅàáâãå

Ò Ó Ô Õ Ö Ò Ó Ô Õ Ö ÙÙÜUùúûü With some software in which MP3/WMA/AAC format files have been encoded, the character information may not be

Undisplayable characters and symbols will be converted into

• It is recommended that the length of the file name is less

than 8 characters (excluding the file extension). Compression formats

displayed properly.

an asterisk (💥).

cording MP3/WMA/AAC Files on a CD-• You are recommended to minimize the chances of making

a disc that contains both CD-DA files and MP3/WMA/AAC • If CD-DA files are on the same disc as MP3, WMA or AAC files or the songs may not play in the intended order of some songs may not play at all

When storing MP3 data. WMA data or AAC data on the

This unit does not have a play list function.

Disc-at-Once is recommended.

Supported file systems

Not included

Not Supported

Not Supported

Not Supported

Not Included

Not Supported

Not Supported

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 assigned to each file depending on the file format. You may encounter trouble in playing MP3/WMA/AAC files or displaying the information of MP3/WMA/AAC files recorded with certain writing software or CD recorders.

**■**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

Although Multi-session recording is supported, the use of

**■**USB-device CQ-RX420W CQ-RX320W CQ-RX321W CQ-RX322W

(Recommendation: "Points to Remember When Making MP3/WMA/AAC Files" → Left)

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 support	ted.		,

# CQ-RX320W CQ-RX321W CQ-RX322W CQ-RX220W CQ-RX221W CQ-RX222W CQ-RX225W CQ-RX121W CQ-RX122W

Bit rate | VBR | Sampling frequency Compression method MPEG 1 Audio Laver-3 (MP3 32 k - 320 kbps Yes 32, 44.1, 48 kHz 8 k – 160 kbps Yes 16, 22.05, 24 kHz MPEG 2 Audio Layer-3 (MP3) MPEG 2.5 Audio Layer-3 (MP3) 8 k – 160 kbps Yes 8, 11.025, 12 kHz

\* WMA 9 Professional/LossLess/Voice are not supported Folder Selection Order/File Playback Order

Windows Media Audio Ver. 2-9\*

Maximum number of files/folders

USB device: 999

playback will be played.

which the files were stored.

Maximum number of folders:

 Maximum depth of trees: 8 CQ-RX420W CQ-RX320W CQ-RX321W CQ-RX322W Maximum number of files CD-media: 999 USB device: 65 535 Maximum number of files in one folder CD-media: 999

USB device: 255 (Root folder is included.) CQ-RX220W CQ-RX221W CQ-RX222W CQ-RX225W Maximum number of files: 999 Maximum number of files in one folder: 999

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

 You can shorten the duration between data read and playback by decreasing the quantity of files or folders, or the depth of the hierarch This unit counts the number of folders 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

players even if the same disc is used. "ROOT" appears when displaying the root folder name CQ-RX420W CQ-RX320W CQ-RX321W CQ-RX322W Empty folders stored on the USB memory are not included in the folder count. Depending on the connected USB memory, the order in

It is prohibited by copyright laws to copy, distribute and

approval of copyright holder except enjoying yourself

deliver copyrighted materials such as music without the

• Playback order may be different from other MP3/WMA/AAC Tree 1 Tree 2 Tree 3 Tree 4 Tree 5 ... which the files are played back may differ to the order in

displayability of MP3/WMA/AAC

No warranty

Never take measures especially those other than 64 k – 160 kbps Yes 32, 44.1, 48 kHz indicated by italic letters in "Possible Solution" described below because those are too dangerous for users to handle themselves. **■CD**-media Root folder ☐ (Root Directory)

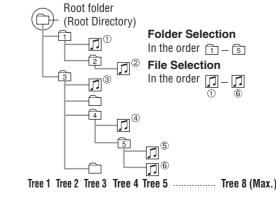
Tree 8 (Max.)

Folder Selection

In the order 1 - 8—∏<sup>③</sup> File Selection In the order  $\Box$ 

 Maximum number of folders: 256 (Root folder is included.) **■**USB-device CQ-RX420W CQ-RX320W CQ-RX321W CQ-RX322W

Tree 1 Tree 2 Tree 3 Tree 4



Above description complies with our investigations as

of June 2008. It has no warranty for reproducibility and

sound quality Sound skip due to vibration Disc not ejectable contact the nearest Panasonic Service

No sound from

or rear speaker

Left and right

Disc Player

eiected

sounds are

reversed

eft, right, front,

If the described suggestions do not solve the problem, it is

**▲** 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 your dealer Never try to repair the unit by yourself because it is dangerous

Possible Solution

• Tune in to another station of high-intensity • Make sure that the antenna mounted point Verify the wiring. (battery lead, power is grounded properly. • Fuse blown (Contact the nearest Panasonic The preset memory is cleared to return to the original factory setting when Ask a professional for fuse replacement the power connector or battery is disconnected. Error Display Messages (Disc Player)

• Wait until the dew disappears before (The disc is ejected automatically.) The disc is dirty or upside down. Make sure that grounding is established (The disc is eiected automatically. The disc has scratches. -- <u>--- ---</u> Check the disc. No operation by some cause Connect the speaker lead correctly. If normal operation is not restored, consult your dealer or the nearest Service Center to ask for repairs. Cannot read the file -- [-- ]-- [ Check the disc A WMA/AAC file can be copyrighted. • The file protected by copyright is not

> Note: Refer to the **System Upgrade Guidebook** for error messages egarding optional products.

CQ-RX320W CQ-RX321W CQ-RX322W Press [♠]. If the disc is still not ejected, regarding optional products.

Model: CQ-RX420W

CQ-RX222W/CQ-RX225W

WMA MP3 CD Player/Receiver

y Mounting Collar

(YEFX0217263A)

Trim Plate

(YGFC051023)

**Power Connector** 

CQ-RX121W CQ-RX122W

CQ-RX420W CQ-RX320W CQ-RX220W

Remote Control Unit (includes a battery)

MP3

 Please read these instructions carefully before using this product and keep this manual for future reference. • All illustrations throughout this manual represent model CQ-RX420W unless otherwise specified.

nstallation kit (YEP0FZ5698 Lock Cancel Plate

**Mounting Bolt** (5 mm  $\phi$ )

• 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 Mounting Collar and Trim Plate are mounted on the main unit at

at 10 kHz, 12 kHz, 15 kHz, 18 kHz)

Wow and flutter Channel separation

Panasonic Corporation Web Site: http://panasonic.net

YGFM286163A FT0808-1108

l 2 seconds.).

selects a preset station (1 to 6),

executes the direct selection.

inputs the number in direct selection.

[RANDOM] [SCAN] [REPEAT]

toggles on/off each play mode.

The demonstration message appears for initial

Set your car's ignition switch to the ACC or Press [SRC] (PWR: Power). • To return to the regular mode, press [DISP]. Refer to the section on "Function Settings"

Hold down [VOL] (PUSH SEL: Select) for • When "NO USB" (CQ-RX420W) CQ-RX320W 2 sec. or more to open the function menu. ⚠ Press [VOL] (PUSH SEL: Select) to select

CQ-RX320W CQ-RX321W CQ-RX322W Note: Battery Information: Battery Type: Panasonic lithium battery (CR2025) (Included

Pull the insulation film out from the backside of the remote control

CQ-RX321W CQ-RX322W CQ-RX221W CQ-RX222W CQ-RX225W CQ-RX121W CQ-RX122W The 24-hour system is used for the clock. 1 Press [DISP]. - AIJ\_UST Hold down [DISP] for more than

2 seconds. Hour blinks Adjust the hour.

[►►I]: sets the hour ahead. 「 ► 1: sets the hour back ⚠ Press [DISP].

Aim the remote control at the remote sensor and operate it.

presets the current station (Hold it down for more than

down/up the frequency (Hold it down for more than

skip to the previous/next track/file in player mode. Hold

Direct Access

Example: Track number 5

Press [#] (NUMBER).

Press [BAND] (SET).

To suspend direct selection, press [DISP].

Functions only on Main unit

CQ-RX225W CQ-RX121W CQ-RX122W

the remote control unit placed on

Stick your thumbnail into the

and at the same time.

2 Pull it out in the direction

pointed object.

groove, and push the holder

in the direction of the arrow,

of the arrow using a tough Back side

For folder selection, enter a number after pressing [#]

The following functions are not available on remote control

CQ-RX321W CQ-RX322W CQ-RX221W CQ-RX222W

Remove the battery holder with Tough pointed object

• Scroll • Disc eiect • Tag on/off

be directly selected.

Press [5].

(NUMBER) twice.

SQ selection

a flat surface.

A track (CD mode), file, folder (MP3/WMA/AAC mode) can

0.5 seconds and release it for seek tuning.)

skip to the previous/next folder in player mode.

it down for fast reverse/fast forward.

F#010+

Hour entered

• This instruction manual explains operations for use with the buttons on the main unit. (Different operations excluded)

Turn [VOL] counterclockwise. For using the remote control, press [0] ( $\vee$ ).

in the remote control)

room temperature)

Adjust the minute.

🖣 Press [DISP].

[ >>| ]: sets the minute ahead

[ **| ]**: sets the minute back.

Battery Life: Approximately 6 months under normal use (at

Minute entered

Completed

"ADJUST" is displayed before adjusting the clock.

DISC" is displayed, the clock cannot be adjusted.

Clock Display at Power Off

selects a band in the tuner source, toggles pause/play in player source,

[SRC] (SOURCE) \_\_[MENU] (SEL: Select)

executes the APM (Auto Preset Memory) in tuner source

2 Put a battery in the

Out the case back.

**▲** Warning

 $\hat{\mathbb{L}}$  Caution

facing up.

case with (+) side

Hold it down for more than 2 seconds).

selects a source.

togales power on/off.

(POWER)

Press [DISP] to change the display.

Hold down [I◄◄] or [►►I] to change numbers rapidly

When "NO USB" ( CQ-RX321W | CQ-RX322W ) or "NO

isplay off

ck display (Default)

selects the items in the audio menu

adjusts the volume, and selects the

value in the audio menu, etc.

(Only for remote control unit)

Note: You can select mute or

and exits the audio menu.

Keep batteries and insulation film out of reach of infants

Batteries and insulation film can be ingested, so keep

them out of the reach of infants. If an infant ingests a

Remove and dispose of an old battery immediately.

follow local regulations when disposing of a battery.

Improper 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)

Do not disassemble, heat or short a battery. Do not

throw a battery into a fire or water.

**Notes:** Battery Information:

attery or insulation film, please seek immediate medical

attenuation. (→ "Function Settings")

switches the information on display,

toggles mute on/off.

**— [VOL]** (volume)

CQ-RX321W CQ-RX322W ) or "NO DISC" is displayed,

lote: For information about connectable devices, refer to the Operating Instructions USB or the instruction manual for each device.

System (RDS) in FM

speakers and your hearing

[SRC] (Source)

[PWR] (Power)

Broadcasting")

selects a source.

toggles power on/off.

Set your car's ignition switch to the ACC or ON position.

Note: For information about connectable devices, refer to the System

Upgrade Guidebook or the instruction manual for each device.

• Set the volume level to low enough before the AUX connection is completed

Remote Control Sensor [VOL] (Volume)

Failure to observe this, the loud noise may come out and damage your

Power on: Press [SRC] (PWR). Power off: Hold down [SRC] (PWR) for more than 1 second. Press [SRC] to change the source. Radio System-up **←** AUX 1\* Section | Connected

Connector **Note:** Select USB Connector mode to operate the iPod series connected with USB connector. (→ System Upgrade CQ-RX320W CQ-RX321W CQ-RX322W

> USB Connector AUX\* CQ-RX220W CQ-RX221W CQ-RX222W CQ-RX225W

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

The following functions are available when receiving RDS stations.

receiving conditions is automatically tuned in to.

The AF sensitivity can be adjusted.

When executing APM, only RDS stations are selected.

• When calling up a preset station, a best receiving station is

The AF available range can be adjusted. (→ "Function Settings")

The following functions are available when the TA mode is

A TP station is automatically searched for and received at

When executing station search or APM, only TP stations are

automatically switch to radio mode and output the traffic

announcement when the traffic announcement begins. The

Hold down **[TA] (AF)** for more than 2 seconds to select AF

When the AF network of an RDS station is not required.

Low level AF operating sensitivity. (Default)

• This operation is not adjustable by the remote control.

• Traffic information is available in monaural.

Adjust the TA volume only while receiving a TA.

traffic announcement having finished, the unit will return to

non-TP station or TP station with poor reception.

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

the previous mode. (TA Standby Mode)

A AFIDN

AFZ ON

AL OFF

Pressing **[TA]** toggles TA on and off.

High level AF operating sensitivity.

the instant of toggling the TA mode on if you are receiving a current position.

selected automatically. (**BSR** Best Stations Research)

active (AF lights).

active (74 lights).

Radio → Disc Player → When an expansion module is connected: 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).

Radio Data System (RDS) in FM Broadcasting

When receiving conditions become bad, a station with better
 The PTY of receiving station appears.

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

**AUX1 Connector** (3.5 mm  $\phi$  stereo

Silicon-audio player, HDD player, etc.)

the display as "<AUX IN>". (→ Below)

AUX IN\*:

CQ-RX121W

Turn [VOL]

**■USB Connector** 

When loading MP3/WMA data

NO US3

Shift to connected device

<u>CHANGER</u>

<u>ВЦЦЕТООТ</u>Н

Programs can be searched for by PTY.

Other functions of RDS

The clock is automatically adjusted.

PS (Programme Service Name)

EON (Enhanced Other Network)

stations can be received.

display when it is received

ALARM

better reception will be searched for.

FI SEEK

volume to 0 in FM mode.

CT (Clock Time)

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

As well as the frequency, the name of the broadcast station

RDS information is updated constantly in response to the

Traffic information from the current and other network

Emergency announcement automatically appears on the

PI Seek (Programme Identification Seek)

If reception becomes poor when tuning in a preset station,

Press same preset number button again to cancel.

press the same preset number button. The same station with

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

affic Information Only (TA Mute)

Once traffic information starts, the volume changes to the TA

or listening to only traffic information, activate TA and set the

**Emergency Announcement Reception** 

45A

(AUX IN)

(ALIX IN)

(Setting Range: 0 to 40, Default: 18)

CQ-RX420W CQ-RX320W CQ-RX321W CQ-RX322W

When an optional USB memory is not connected:

When an optional USB memory is connected:

When loading MP3/WMA/AAC data CQ-RX420W

CQ-RX320W CQ-RX321W CQ-RX322W

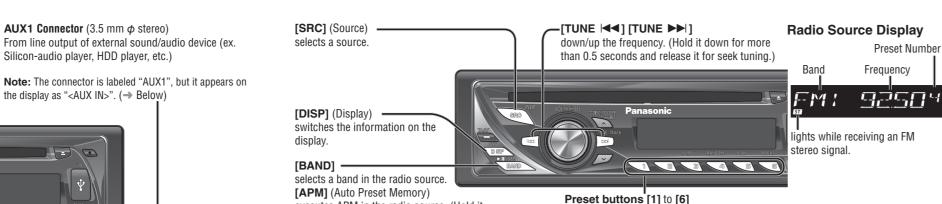
System-up Connector CQ-RX420W

When an optional device is connected:

From line output of external sound/audio device (ex.

CQ-RX221W CQ-RX222W CQ-RX225W

Radio (AM/FM)



executes APM in the radio source. (Hold it selects a preset station in the radio source, down for more than 2 seconds.) and presets the current station. (Hold it down for more than 2 seconds.) ITUNE ► 1: Lower Press [BAND] to select a band. [TUNE ▶▶I]: Higher Note: Hold down for 0.5 sec. or more and release for station

Select a station.

FM: → FM<u>P</u> → FM∃ → AM Press the corresponding preset button from [1] to [6] to tune in a preset station.

Press [DISP] to change the display. CQ-RX420W CQ-RX320W CQ-RX220W AM (LW/MW) mode: FM (not RDS) mode:

Radio mode display (Default) E: 15 Clock display

RDS mode:

Ianual Station Preset

Hold down one of the preset buttons from

[1] to [6] for more than 2 seconds.

Note: New stations overwrite existing saved stations.

Tune into a station.

Detailed PTY Selection

¶ Press [◄◄] or [►►] to select PTY

SCIENCE → VARIED

OLDIES  $\rightarrow$  FOLK M  $\rightarrow$  DOCUMENT -

• To stop searching, press [BAND] (SET).

Original PTY presets can be changed as you like.

Follow the procedure of ordinary

Press [BAND].

"NONE" is displayed.

(AM/FM)")

5 Press [DISP].

Adjust the minute.

**7** Press [DISP].

[►► ]: sets the minute ahead.

[ ◄ ]: sets the minute back.

Search starts.

 $ROCK M \rightarrow EASY M \rightarrow LIGHT M \rightarrow CLASSICS$ 

OTHER M → WEATHER→ FINANCE → CHILDREN -

When there is no corresponding programme type station,

■ Select a PTY that you would like to preset.

presetting. (→ "Station Preset" in "Radio

Minute blinks

Minute entered

Completed

"NO CT" is displayed before adjusting the clock.

. When a broadcast of FM Radio Data System is received,

the clock is adjusted automatically by the Clock Time

• Hold down [◄◄] or [▶►I] to change numbers rapidly.

SOCIAL  $\rightarrow$  RELIGION $\rightarrow$  PHONE IN  $\rightarrow$  TRAVEL  $\rightarrow$ 

ightarrow Jazz ightarrow Country ightarrow Nation M ightarrow

→ EDUCATE → DRAMA

FM! 92504

PS (Programme

Service name)

Up to 6 stations can be preset in AM, FM1, FM2, and FM3 respectively Preset stations can be simply called up by pressing [1] to [6]. Auto Preset Memory (APM)

CQ-RX420W CQ-RX320W CQ-RX220W

toggles PTY mode on and off

Programme Type

NEWS

SPEECH

SPORT

POP M

CLASSICS

MUSIC

"NONE" is displayed.

(AM/FM)").

Press [DISP].

2 seconds.

▲ Adjust the hour.

[ ]: sets the hour ahead.

[ ◄ ]: sets the hour back.

AM 540

A desired PTY appears for 5 seconds.

CQ-RX420W CQ-RX320W CQ-RX220W

The 24-hour system is used for the clock.

¶ Select the radio AM mode. (→ "Radio")

(clock display)

A Hold down [DISP] for more than

Hour blinks

Preset contents are changeable.

Select a band Hold down [BAND] (APM) for more than 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]. New stations overwrite existing saved stations.

Holding down [DISP] (PTY) for more than 2 seconds

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

Programs can be searched for by use of PTY that has been

POP M

CLASSICS

Another station in the same PTY is searched for by pressing

• When there is no corresponding programme type station,

Contents

AFFAIRS, INFO, EDUCATE, DRAMA.

WEATHER, FINANCE, CHILDREN,

SOCIAL. RELIGION. PHONE IN.

TRAVEL, LEISURE, DOCUMENT

ROCK M. EASY M. LIGHT M.

OTHER M. JAZZ. COUNTRY.

NATION M. OLDIES. FOLK M

CULTURE, SCIENCE, VARIED.

With this operation, stations with good receiving conditions

can be automatically stored in the preset memory.

• To store non-RDS stations with Auto Preset Memory (APM), set the AF level setting to OFF. (→ "Radio Data System (RDS) in FM Broadcasting")

**Audio Settings** 

selects a value in the audio menu. (PUSH SEL) (Push to select) selects items in the audio menu. exits from the audio menu.

CQ-RX420W The sequence and contents of setting items may depend on the conditions of devices to be connected. For further information, refer to the System Upgrade Guidebook or the instruction manuals for the devices to be connected. • If the fader is set to front, the pre-amp. output (rear) is

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. Press [VOL] (PUSH SEL) to select a Turn [VOL] clockwise or counterclockwise to mode to be adjusted. VOL 18 (Setting Range: 0 to 40, Default: 18) HESE 385+ 6d) (Setting Range: -12 dB to +12 dB by 2 dB, Default: 0 dB) TRE+ 6dI (Setting Range: -12 dB to +12 dB by 2 dB, Default: 0 dB) SQ (Sound Quality) 50-FLAT CQ-RX420W CQ-RX220W CQ-RX220W "Sound Control")

50 SET (Tone/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)  $\$ ] [ $\checkmark$ ]: Level up/down 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)

BALANCE (Setting Range: 15 levels each, Default: CNT (center)) FADER FR]] F (5 ): Front enhanced

• For further information on SQ (Sound Quality) settings, refer to "Sound Control".

takes a disc in with the

the player mode.

reverse/fast forward.

Refer to the section of "Notes on Discs" and "Notes on MP3/WMA/
 Do not insert foreign matter into the disc slot.

printed side facing up.

Do not activate SQ and Bass/Treble at the same time to avoid causing sound distortion.

(Setting Range: 15 levels each, Default: CNT (center)) The volume can also be adjusted directly using [VOL] on the main unit. (→ "General")

Player (Disc Player)

Note: A disc which has both CD-DA data and MP3/WMA/AAC data on it

**Note:** The power will be turned on automatically when a disc is loaded.

may not be reproduced normally.

Printed side up

[SRC] (Source) -

[DISP] (Display) ———

switches the information on the display.

(► ■ ■ ● (Play/Pause) \_\_\_\_\_

toggles pause/play in the player source.

• This unit does not support 8 cm discs.

source.

• Do not insert a disc when the **ODISC** indicator lights.

Note: To perform fast forward/reverse, hold down either of

Folder Selection (MP3/WMA/AAC)

2 Select a desired portion.

Track/File Selection

Press [ | ◀ ◀ ] / [ ▶ ▶ | ].

Disc Player (CD-DA disc):

Disc Player (MP3/WMA/AAC disc):

Previous/next track

Previous/next file

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

selects a source.

| 60HZ +6 1)(2): center frequency up/dowr [ I◀◀ ] [ ▶▶I ]: Band selection

Notes for AAC playback is only for the model CQ-RX420W.

[4] (RANDOM)/[5] (SCAN)/[6] (REPEAT)

If you insert an 8 cm disc and cannot eject it, turn ACC of your car off

skip to the previous/next folder. ejects the disc.

[3] (SCROLL)

once and turn it on again, then press [ $\triangle$ ] (Eject).

Press [BAND] (►II).

Press again to cancel.

skip to the previous/next track/file in toggles on/off each play mode.

Hold down either of them for fast scrolls the information on display

38L L 15 : Right enhanced

1) Press [SQ], and select the SQ which is to be returned to the default setting. (Only for main unit) ②Hold down [BAND] for 2 sec. or more.

frequency that has been selected for SQ.

CQ-RX420W CQ-RX320W CQ-RX220W

②Hold 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 screen names such as ROCK and JAZZ. Do not activate SQ and Bass/Treble at the same time to avoid causing sound distortion.

Play time

Play Mode indicators

MP3/WMA/AAC Mode Display

Lights when folder random/repeat/scan is on.

All the available songs (tracks/files) are played in a random

older Random Play (MP3/WMA/AAC)

All the available files in current folder are played in a random

Hold down [4] (RANDOM) for more than

Random Play

2 seconds.

Repeat Play

Press [4] (RANDOM).

Press again to cancel.

Hold down again to cancel.

The current song (track/file) is repeated.

Press [6] (REPEAT).

Press again to cancel.

(FLAT) flat frequency response

CLUB). You can customize your settings for these and save

(ROCK) speedy and heavy sound exaggerates bass and treble. 50-PDP .

Press [VOL] (PUSH SEL: Select) to select slightly emphasizes bass and treble. Turn [VOL] to select the sound type

Press **[DISP]** to return to the regular mode. Note: Please refer to "Audio Settings" for the adjustment to

You can adjust the characteristics of the currently selected

Center frequency and level are adjustable in each of 3 bands

This lets you fine-tune sound quality for each genre to suit

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)

To return an adjusted SQ to the default setting

(Follow steps 1 to 3 in "SQ Changeover". → Above)

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

①Select the SQ which is to be returned to the default setting.

car-interior acoustics and your personal preferences.

Tone/SQ adjustable range: -12 dB to +12 dB (by 2 dB)

It is also possible to preset up to 5 different adjusted SQs

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

1 Press [VOL] (PUSH SEL: Select) to

CQ-RX420W CQ-RX320W CQ-RX220W

open the audio menu.

Sound Control

them for instant recall.

as follows.

sound type (SQ). (→ Above)

SO-FLAT

does not emphasize any part. (Defaul 50-80<u>c</u>k 2

(POP) wide-ranged and deep sound:

|50-70EAL4 • After pressing [SQ] on the main unit, you can also select a sound (VOCAL) clear sound: type by pressing the preset buttons [1] to [6]. emphasizes middle tone and slightly emphasize Please refer to "Audio Settings" for the adjustment to each

50-JAZZ 5 (JAZZ) jazz-specific deep sound

echo saxophone. 50-CLU3 5 (CLUB) club and disco-specific soun reproduction of realism being in a club

sound with emphasis on sharpness of high-hat and

1 Press [VOL] (PUSH SEL: Select)

2 Press [VOL] (PUSH SEL: Select) to select

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

The adjusted SQ is preset in the number of the selected

SQ Adjustment will not be saved unless it is preset. Always

CQ-RX121W CQ-RX122W

remains your recent adjustment until a new SQ presetting

Disc Player (MP3/WMA/AAC

THE BEST Folder name/

LIVE ME File name/

\*ID3/WMA/AAC Tag On/Off

Hold down [3] for more

album title and song title/

artist name are displaye

folder name/file name are

TFE FF (Default)

Clock

Normal

**4** 

 $\mathbf{V}$ 

than 2 seconds.

TAG ON

When you suspend the SQ preset adjustment, each level

operation is performed or you call up the SQ preset.

button, and return to the regular mode resumes.

CQ-RX420W CQ-RX320W CQ-RX220W

preset after making adjustments.

SQ SET

Adjust each band.

1)/@: center frequency up/down

EHHZ + E — Level

[ ► ]: Band selection

 $[\land][\lor]$ : Level up/down

2 sec. or more.

Press [DISP] to change the display.

Disc Player

(CD-DA disc):

THE BEST

LOVE ME

Cloc

For scrolling text, press [3] (SCROLL).

The current folder is repeated.

Press [5] (SCAN).

Press again to cancel.

each folder is played in sequence.

Hold down again to cancel.

2 seconds.

2 seconds.

• "NO TEXT" is displayed when there is no information on the disc.

Hold down again to cancel.

older Repeat Play (MP3/WMA/AAC)

Hold down [6] (REPEAT) for more than

The first 10 seconds of each songs (tracks/files) is played in

Ider Scan Play (MP3/WMA/AAC)

From the next folder, the first 10 seconds of the first file in

Hold down [5] (SCAN) for more than

1 Press [SQ] to activate the SQ selection mode.

2 Press [SQ] to select the sound type as follows.

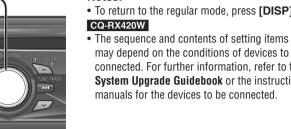
Press [DISP] to return to the regular mode.

[DISP] (Display) ———

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

exits from the function menu.

(→ Left)



[SQ] (Sound Quality)

selects a sound type (SQ).

 The sequence and contents of setting items may depend on the conditions of devices to be connected. For further information, refer to the System Upgrade Guidebook or the instruction manuals for the devices to be connected.

: MONO OFF

: LOCAL OFF

2): LOCAL OFF

programs within

the region.

1 Hold down [VOL] (PUSH SEL) for 2 sec. or more to open the function menu.

Note: If no operation takes place for more than 5 seconds in function setting, the display returns to the regular mode 2 Press [VOL] (PUSH SEL) to select a 3 Turn [VOL] clockwise or counterclockwise t

mode to be adjusted. FM Monaural FM MINI = IN = (MONO lights.) received from an FM broadcast station. MINI = IFF

FM Local FM

(→Continued below)

LDC = DN = (LOC lights.)

AM Local AM LIL = IN = (LOC lights.) CQ-RX420W CQ-RX220W CQ-RX220W Only stations with good reception are detected in seek 

REGION RDS

CQ-RX420W CQ-RX320W CQ-RX220W Note: When the Region mode is switched from OFF to ON or vice versa, the AF mode turns on automatically.

REG = 0FF

selecting the source.

PTY Language RDS CQ-RX420W CQ-RX320W CQ-RX220W

Demonstration CQ-RX322W CQ-RX121W CQ-RX122W

You can set up the monitor to display or hide the demonstration screen. **Note:** Button operation with either the main unit or remote control allows users to cancel the demonstration

MITE KEY Mute/Attenuation

You can select mute or attenuation.

AUX I IM AUX1 Skip

selecting the source.

AUX Skip

If AUX is not used, the AUX mode is skipped when

disabled.) (Default) 2: Off (Skip FLX I = DFF e

KEH = MILTE-

2): Off (Skip

outside the region. (Default) ②: Swedish

REG = UN = is changed only for

ENGLISH (Default)

=51/ENSKF : On (Default) JEMO DN -

JEMO -DFF

screen for 20 seconds and enable the selected operation

even in the demo-on mode.

If AUX1 is not used, the AUX1 mode is skipped when

enabled.)

disabled.) (Default)

): Volume off

v 10 steps