



Installation kit (YFP0F75698

Lock Cancel Plate

Rubber Bushing

Mounting Collar

(YGFC051023)

Power Connecto

(EUR7641010)

(YGFA134302)

CQ-RX120U CQ-RX120L

Face Plate Case (YGFA134302)

Remote Control Unit (includes a

CQ-RX420U CQ-RX320L

Request for use of the Removable Face Plate Case

Removable Face Plate Cas

To avoid trouble and ensure safety, use the optional Removable

Mounting Bolt (5 mm ϕ)

 Please read these instructions (including "Limited Warranty" and "Customer Services Directory") carefully before using this product and keep this manual for future reference

All illustrations throughout this manual represent model CQ-RX420U unless otherwise specified.

Instruction R	dit CQ-RX420U CQ-RX120U	Q'ty
	Operating Instructions (English: YGFM286149) (Français: YGFM286169) (Español: YGFM286150)	1 set
Process	CQ-RX420U System Upgrade Guidebook (YGFM262959)	1
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Instruction I	CQ-RX120L Operating Instructions (English: YGFM286149)	Q'ty
	CQ-RX320L CQ-RX120L Operating Instructions (English: YGFM286149) (Español: YGFM286150) CQ-RX320L Operating Instructions USB	Q'ty 1 set

• 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

WMA MP3 CD Player/Receiver

in severe injury or death.

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

□The driver should neither watch the display nor operate

Watching the display or operating the system will distract the

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

brake before watching the display or operating the system.

driver from looking ahead of the vehicle and can cause accidents.

12 V DC battery system. Never operate this product with other

battery systems, especially a 24 V DC battery system.

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

Do not disassemble, modify the unit or attempt to repair the

product yourself. If the product needs to be repaired, consult your

If the unit is out of order (no power, no sound) or in an abnormal

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

When the fuse blows out, eliminate the cause and have it replaces

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

□Refer fuse replacement to qualified service personnel.

with the fuse prescribed for this unit by a qualified service

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

□The remote control unit should not lie about in the car.

smells), turn it off immediately and consult your dealer.

This pictograph intends to alert you to the presence instructions. Failure to heed the instructions may result

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

■ This manual uses pictographs to show you how to use 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

safely and to alert you to potential dangers resulting from improper

Observe the following warnings when using this terminal before installation.

system properly.

connected may cause electrical shock and injury due to a short circuit. Some cars equipped with the electrical safety system ha specific procedures of battery terminal disconnection. FAILURE TO FOLLOW THE PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTE RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.

■Never use safety-related components for installation. This product is designed for operation with a negative grounded grounding, and other such functions. Do not use safety-related vehicle components (fuel tank, brake, Keep batteries and insulation film out of reach of infants. suspension, steering wheel, pedals, airbag, etc.) for wiring or fixing the product or its accessories. Batteries and insulation film can be ingested, so keep them out of the reach of infants. If an infant indests a battery or insulation film. □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 if

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 cau fire, 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.

Features

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

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

you fine-tune sound quality for each genre to suit car-interior acoustics Wide Array of Components for System Upgrade and your personal preferences. (→ "Sound Control")

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

By connecting a USB memory (not included) to USB connector via a USB extension cable (USB 2.0, not included), you can enjoy MP3/ WMA/AAC files stored on the USB memory (not included) in your car. By connecting iPod series to USB connector via a USB extension cable for iPod (USB 2.0, not included), you can enjoy music files stored on the iPod series in your car.

e USB Connector is equipped on the front panel.

(→ Operating Instructions USB) ly connecting a USB memory (not included) to USB connector via a USB extension cable (USB 2.0, not included), you can enjoy MP3/WMA

The AUX input terminal is equipped on the front panel. Your mobile audio player and other devices are connectable to this unit

You can connect the optional Sirius Satellite Radio receiver without any difficulty.

Connection of the Expansion Module (hub unit, CY-EM100U) allows users to connect up to 4 optional devices shown below.

Various optional components allow users to obtain availability of wide range of system upgrade. Upgrading the system delivers relaxed AV space in a car. For further information, refer to the

separate System Upgrade Guidebook. The optional adaptor (Direct Cable for iPod: CA-DC300U) allows you to connect the optional iPod series. iPod is a trademark of Apple Inc., registered in the U.S. and other

The optional adaptor (Conversion Cable for DVD/CD Changer CA-CC30U) allows you to connect the optional Panasonic CD changer unit (CX-DP880U).

 XM Satellite Radio You can connect the optional XM receiver (XMD1000) with optional Digital Adaptor Cable (XMDPAN110).

For details, refer to the operating instructions for the XM received Sirius Satellite Radio

Satellite Radio receiver.

Note: This unit does not support CY-BT100U.

The Bluetooth word mark and logo are owned by the Bluetooth SIG. Inc. and any use of such marks by Panasonic Cornoration is under license. Other trademarks and trade name are those of their

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.

e instruction 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. (CQ-RX420U)

his operating instruction manual is for 4 models CQ-RX420U, CQ-RX320L, CQ-RX120U and CQ-RX120L. All illustrations throughout this manual represent model CQ-RX420U unless otherwise specified. The following table describes the differences among 4 models.

CO DV42011 CO DV2201 CO DV42011

Features	GQ-RX4200	UQ-RX320L	CQ-RX1200	GQ-RX120L
Removable Face Plate Case	Included	Included	Not included	Not included
System Upgrade Guidebook	Included	Not included	Not included	Not included
Operating Instructions USB	Not included	Included	Not included	Not included
System-up Connector	Supported	Not Supported	Not Supported	Not Supported
Preamp Out Connector	2 (Front/Rear)	1 (Rear)	Not Supported	Not Supported
USB Connector	Supported (USB iPod)	Supported	Not Supported	Not Supported
AAC playback	Supported	Not Supported	Not Supported	Not Supported
Button Logo Color	Blue	Red	Blue	Red

Accessory Purchases

Customer Services Directory (United States and Puerto Rico)

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service Center: purchase Part and Accessories; or make Customer Service and Literature

requests by visiting our Web Site at: http://www.panasonic.com/support or, contact us via the web at: http://www.panasonic.com/contactinfo You may also contact us directly at:

1-800-211-PANA (7262) Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST. For hearing or speech impaired TTY users. TTY: 1-877-833-8855

(United States and Puerto Rico) Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at: http://www.pasc.panasonic.com

or, send your request by E-mail to: npcparts@panasonic.com You may also contact us directly at 1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday-Friday 9 am to 8 pm, EST.)

Panasonic Services Company 20421 84th Avenue South, Kent, WA 98033 (We accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

Notes on MP3/WMA/AAC

For hearing or speech impaired TTY users, TTY: 1-866-605-1277

Our Customer Care Centre: Telephone #: (905) 624-5505 1-800 #: 1-800-561-5505 Fax #: (905) 238-2360 Email link:

For defective product exchange within the warranty period. please contact the original dealer or our Customer Care

(For USA and Puerto Rico Only) PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF PANASONIC CORPORATION OF NORTH AMERICA

One Panasonic Way, Secaucus, New Jersey 07094 PANASONIC AUTO PRODUCTS

LIMITED WARRANTY LIMITED WARRANTY COVERAGE If your product does not work properly because of defects in materials and

tive Car Audio Speakers under hase. Contact your Dealer for detail:

During the "Labor" warranty period, there will be no charge for labor.

must carry-in or mail-in your product prepaid during the warranty period If nonrechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United **EXCHANGE WARRANTY** States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service. stated below from the date of original purchase

Panasonic Canada Inc.

For Carry-In or Mail-In Service in the United States and Puerto Rico call

LIMITED WARRANTY LIMITS AND EXCLUSIONS This warranty ONLY COVERS failures due to defects in materials and

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for workmanship, and DOES NOT COVER normal wear and tear or cosmetic which the product was not designed, misused or abused, damaged during damage. The warranty ALSO DOES NOT COVER damages which occurre shipping, or which has been altered or repaired in any way that affects the during shipment, failures which are caused by products not supplied by the reliability or detracts from the performance, nor does it cover any produc warrantor, failures which result from accident, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set coverage under this warranty. up adjustment, maladjustment of consumer control, improper maintenance improper antenna, inadequate signal reception or pickup, power line surge, improper voltage supply, lightning, modification, commercial use (such as use in hotels, offices, restaurants, or other business uses) or rental use of

cost of having someone remove or re-install an installed unit if applicable travel to and from the sevicer, and loss of media, data or other memory contents. The items listed are not exclusive, but are for illustration on ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED

ome states do not allow the exclusion or limitation of incidental or sequential damages, or limitations on how long an implied warranty ists, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to warrantor's Consumer Affairs Department at the addresses of the

PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILIT

• 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,

Press []. The face plate will open.

Pull it out toward you.

CQ-RX420U CQ-RX320L Put the face plate in the case.



VBR | Sampling frequency

32, 44,1, 48 kHz

16, 22.05, 24 kHz

8, 11.025, 12 kHz

Folder Selection

—☐^③ File Selection

In the order 1 - 8

Press the right end of face plate until a

DC 12 V (11 V – 16 V DC), test Itage 14.4 V. negative ground mode: 0.5 W x 4 channels Maximum power output 50 W x 4 channels (at 1 kHz) volume control maximum Tone/SQ adjustment range :SQ Low/Bass: ±12 dB at 60 Hz, 80 Hz, 100 Hz, 200 Hz) Speaker impedance

Maximum Supply Current: 500 mA Front AUX input Input impedance Allowable external input :2.0 V Dimensions (W x H x D)

Pick-up type Light source Wave length Frequency response Signal to noise ratio Total harmonic distortion

:8 times oversampling 1 bit DAC System : Astigma 3-beam

:87.9 MHz – 107.9 MHz Frequency range :10.2 dBf. (0.9 uV. 75 C Usable sensitivity 50 dB quieting sensitivity :15.2 dBf. (1.6 μ V, 75 Ω :30 Hz - 15 kHz (±3 dB) Alternate channel selectivity :75 dB :35 dB (at 1 kHz) Stereo separation Image rejection ratio :100 dB IF rejection ratio

(at 500 Hz, 1 kHz, 2 kHz, 3 kHz) SQ High/Treble: ±12 dB (at 10 kHz, 12 kHz, 15 kHz, 18 kHz)

2.0 V (CD mode, 1 kHz, 0 dB) USB Standard Compatibility :1.1/2.0 Full Speed

" x 1 15/16" x 6 5/16" 1.2 kg {2 lbs. 10 oz}

Semiconductor laser :0.01 % (1 kHz)

Signal/noise ratio

Above specifications comply with EIA standards.

18 W RMS x 4 Channels at 4 Ω and \leq 1% THD+N

notice due to improvements.

from your product.

:62 dB

:27 dB/μV (22 μV, S/N 20 dB) Power Output:

Some figures and illustrations in this manual may be different

Signal to Noise Ratio: 85 dBA (reference: 1 W into 4 Ω) Specifications and design are subject to modification without

:20 Hz - 20 kHz (±1 dB)

: Below measurable limit

Panasonic Canada Inc. 5770 Ambler Drive.

Mississauga, Ontario L4W 2T3 http://www.panasonic.ca

moisture, or dust. the unit does not get wet in car washes or on rainy days.

> headphone 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. Installation of this unit requires special skills and experience. For for any problems resulting from your own installation of the unit. □Follow the instructions to install and wire the product.

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

leads by winding them with vinyl tape or similar protection. □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. and will result in fire or other damage. Do not install the product where it is exposed to strong vibrations or is unstable

∠!\ 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.

his can lead to an accident or injury

The product should be installed in a horizontal position with the □Keep the sound volume at an appropriate level.

engine turned off.

Observe the following cautions when using this

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,

□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

maximum safety, have it installed by your dealer. Panasonic is not liable

Not following the instructions to properly install and wire the product could cause an accident or fire. □Take care not to damage the leads.

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

Blocking these parts will cause the interior of the unit to overheat

⊒Installation Angle

front end up at a convenient angle, but not more than 30°. Keep the volume level low enough to be aware of road and traffic conditions while driving ■This unit is designed for use exclusively in automobiles. □Do not operate the unit for a prolonged period with the

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.

Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that

for an extended period of time. your speakers and your hearing. Direct connection of the speaker/

on them. If leads must be run over sharp metal edges, protect the

The following applies only in the U.S.A. Part 15 of the FCC Rules

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

erchlorate Material - special handling may apply

See www.dtsc.ca.gov/hazardouswaste/perchlorate

This product contains a CR Coin Cell Lithium Battery which contains

Avoid slanted or strongly curved surfaces for installation. If the istallation is not stable, the unit may fall down while driving and

The user should bear in mind that in some areas there may be restrictions on how and where this unit must be installed. Cor vour dealer for further details. **□Wear gloves for safety. Make sure that wiring is**

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

ompleted before installation

• Use only specified battery (CR2025). • Match the polarity of the battery with the (+) and (-) marks in the Replace a dead battery as soon as possible. • Remove the battery from the remote control unit when not using it

□To prevent damage to the unit, do not connect the power

 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.

not obstruct your driving.

Observe the following cautions when using USB device. cq-rx420U cq-rx320L • 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

audio player or iPod series (CQ-RX420U). Do not connect multiple USB devices to the USB connector. Drawing power for multiple USB devices from the connector could cause overheating and 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.

Shoddily made discs

Discs with burrs

before use.

Please remove the burrs

or tape

If you use commercial CDs, they must have either of these labels shown at Some copy-protected music CDs are not playable

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

Do not use discs that fit any of the descriptions given below. Using these discs may damage the discs or cause the unit to process. · Special discs in a shape which is not round

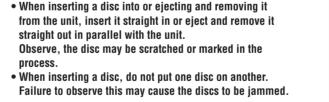


How to hold the disc

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





 Dirty, dusty and damp areas On seats and dashboards Use a dry, soft cloth to wipe from the center outward.

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

when using such a disc for the first time, it may not loa

until it is loaded properly.

Direct sunlight

Near car heaters

Disc cleaning

<Correct>

Notes on CD-Rs/RWs

scratches, etc. on the disc surface.

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

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

high humidity than ordinary music CD. Leaving them inside

a car for extended periods may damage and make playback

• The unit may not successfully playback a CD-R/RW, that was

made by the combination of writing software, a CD recorder

Be sure to observe the handling instructions of CD-R/RW

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

(CD-R/RW drive) and a disc if they are incompatible with one

straight out in parallel with the unit.

Do not leave discs in the following places:

satisfactorily even when it has been inserted into the unit. At

a time like this, insert the disc into the unit as far as it will go

(CO) <Wrong> • Do not attach any seals or labels to your discs. Do not write on the disc label in a heavy pen or ballpoint

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

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

· High bit rate and high sampling frequency are recommended for high quality sounds. . Selecting VBR (Variable Bit Rate) is not recommended

of your own encoding software and writing software. It is recommended to set the bit rate to "128 kbps or more" and "fixed"

· AAC files which can be played on this unit have the ".m4a"

extension and were encoded with Apple iTunes® version 7

• This player cannot play the CD-R/RW discs if the session is 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 This player cannot play CD-R/RW discs which contain other the encoder software used.

he file extension for files encoded with the iTunes Apple

 $oldsymbol{ol}}}}}}}}}}}}}}}}}}}}}$ Notes for AAC playback is only for the model CQ-RX420U.

/indows Media, and the

Windows logo are trademarks, or

registered trademarks of Microsoft

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

orporation in the United States and/or other countries/regions. technology using MPEG 2 and MPEG 4.

Points to Remember When Making MP3/

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

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

ossless Encoder is ".m4a", but such files cannot be played on this player Files under copyright protection cannot be played.

ame 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 damage



Displayed item: MP3 (ID3 tag) CD-TEXT

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

Special Characters

ÀÁÂÂÂÀàáâãå

Ò Ó Ô Õ Ö Ò Ó Ô Õ Ö

displayed properly.

Disc title

Track title

MP3/WMA/AAC

 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 can be displayed.

• Displayable length of file name/folder name: within

by half in the number of displayable characters.)

Album name

Title name/artist name

WMA (WMA tag)

• 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)!"#\$%&'() *+,-./:;<=>?@[\]^_`{|}

ÚÚÜUùúûü · 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

an asterisk (💥). • It is recommended that the length of the file name is less than 8 characters (excluding the file extension). **Compression formats**

MPEG 2.5 Audio Laver-3 (MP3)

Windows Media Audio Ver. 2 – 9*

CQ-RX420U Compression method Bit rate | VBR | Sampling frequency MPEG 1 Audio Laver-3 (MP3 32 k – 320 kbps 32, 44,1, 48 kHz Yes 16, 22.05, 24 kHz MPEG 2 Audio Laver-3 (MP3) 8 k – 160 kbps

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

1 8 k – 160 kbps

l 64 k – 160 kbps

WMA 9 Professional/LossLess/Voice are not supported

MPEG 4 Advanced Audio Coding Low 16 k – 320 kbps

ecording 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. some songs may not play at all

with the rules of each file system.

This unit does not have a play list function.

USB-device cq-rx420U cq-rx320L

8. 11.025. 12 kHz

32, 44.1, 48 kHz

48 kHz

8, 11.025, 12, 16, 22.05, 24, 32, 44.1

Disc-at-Once is recommended.

 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 32 characters. (Unicoded file and folder names are reduced

> 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.

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

Although Multi-session recording is supported, the use of

playback will be played. Playback order may be different from other MP3/WMA/AAC

CQ-RX420U CQ-RX320L in the folder count. Depending on the connected USB memory, the order in

which the files were stored

In the order \bigcirc \bigcirc **் File Selection** In the order 🞵 -Tree 1 Tree 2 Tree 3 Tree 4 Tree 5 ... which the files are played back may differ to the order in

+ (Root Directory)

Tree 1 Tree 2 Tree 3 Tree 4

USB-device cq-Rx420U cq-Rx320L

No warranty

deliver copyrighted materials such as music without the of June 2008. It has no warranty for reproducibility and displayability of MP3/WMA/AAC

Wow and flutter Channel separation

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way, Secaucus, New Jersey 07094

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http://www.panasonic.com

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for any problems resulting from failure to observe the instructions given in this manual.

A Warning

the system while driving.

□Use the proper power supply.

please seek immediate medical attention.

□Do not disassemble or modify the unit.

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

dealer or an authorized Service Center

fire, and damage to the product.

∠!\ Caution

Protect the Deck Mechanism.

of important operating instructions and installation

Observe the following warnings when installing **□Disconnect the lead from the negative (–) battery**

Wiring and installation with the negative (–) battery terminal

■Never install the product in a location where it interferes

files stored on the USB memory (not included) in your car. AUX (AUX1) Input Terminal

You can connect the optional XM Direct² (CNP2000UC) with optional Connection Cable (CNPPAN1)

with this unit.

respective owners

(SC-C1) with optional Interface Adaptor (CA-LSR01U). For details, refer to the operating instructions for the Sirius Note: The optional Sirius Satellite Radio receiver SIR-PAN1/the optional Interface Adaptor CA-PANSC1U cannot be used with this

Using the optional Bluetooth® Unit (CY-BT200U) and a Bluetooth® device enables hands-free telephony and Bluetooth® Audio listening

CONTACT INFORMATION For product information and operation assistance, please

> "customer support" on www.panasonic.ca

the product, or service by anyone other than the technician from Factor to acts of God.

CARRY-IN OR MAIL-IN SERVICE

1-800-211-PANA (7262) or visit

Panasonic Web Site: http://www.panasonic.com

Limited Warranty

Service Center or other authorized servicer, or damage that is attributable THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT. OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time,

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated in the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or refurbished product. The decision to repair or replace will be made by the warrantor

5770 Ambler Drive, Mississauga, Ontario L4W 2T3 During the "Parts" warranty period, there will be no charge for parts. Yo PANASONIC PRODUCT – LIMITED WARRANTY Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to replace the product for a period as

> Mobile entertainment product – One (1) year (labour to install or remove the product is not warranted) LIMITATIONS AND EXCLUSIONS

which is used commercially. Dry cell batteries are also excluded from s warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required THIS EXPRESS. LIMITED WARRANTY IS IN LIFT OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED

ARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY

SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be

■ 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 Service Center.

cleaning. Never use benzine, thinner, or other solvents.

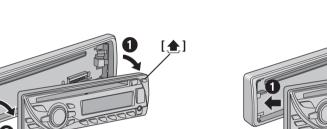
This unit is equipped with a removable face plate. Removing this face plate makes the unit totally inoperable

If the fuse blows out, consult your dealer, or your nearest authorized Service Center.

wipe them off with a clean and dry cloth.

Slide the left side of the face plate in Turn off the power.

Your product is designed and manufactured to ensure the minimum of maintenance. Use a dry, soft cloth for routine exterior



■CD-media

Root folder

(Root Directory)

"click" is heard.

MPEG 1 Audio Layer-3 (MP3) 32 k – 320 kbps MPEG 2 Audio Laver-3 (MP3) 8 k - 160 kbps

CQ-RX320L CQ-RX120U CQ-RX120L

MPEG 2.5 Audio Laver-3 (MP3) Windows Media Audio Ver. $2-9^{\circ}$ | 64 K - 160 KDps | Yes | 32, 44.1, 48 KHz

* WMA 9 Professional/LossLess/Voice are not supported.

Folder Selection Order/File Playback Order Maximum number of files/folders Maximum depth of trees: 8

Compression method

CQ-RX420U CQ-RX320L Maximum number of files CD-media: 999 USB device: 65 535 • Maximum number of files in one folder

CD-media: 999

USB device: 999

Maximum number of folders:

USB device: 255 (Root folder is included.) CQ-RX120U CQ-RX120L Maximum number of files: 999 Maximum number of files in one folder: 999 Maximum number of folders: 256 (Root folder is included.)

> playback by decreasing the quantity of files or folders, or the depth of the hierarchy. • 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

• You can shorten the duration between data read and

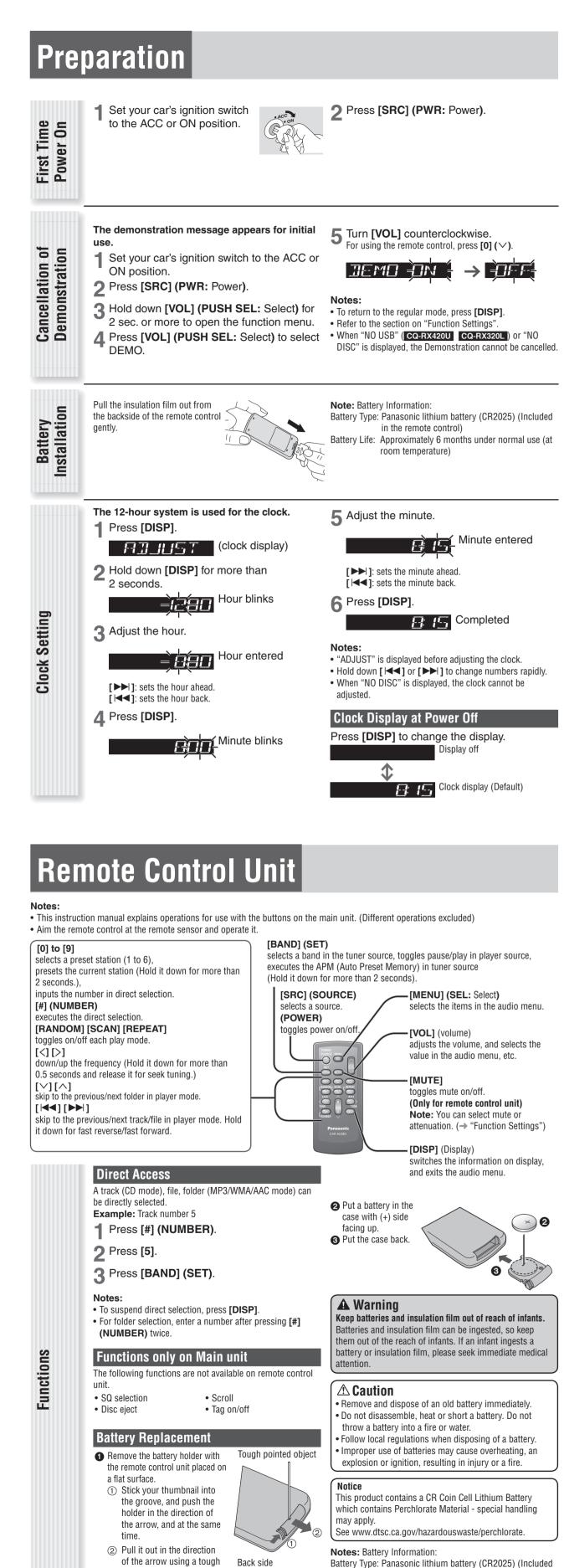
CD-media: 256 (Root folder is included.)

players even if the same disc is used. • "ROOT" appears when displaying the root folder name Empty folders stored on the USB memory are not included

Above description complies with our investigations as

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approval of copyright holder except enjoying yourself

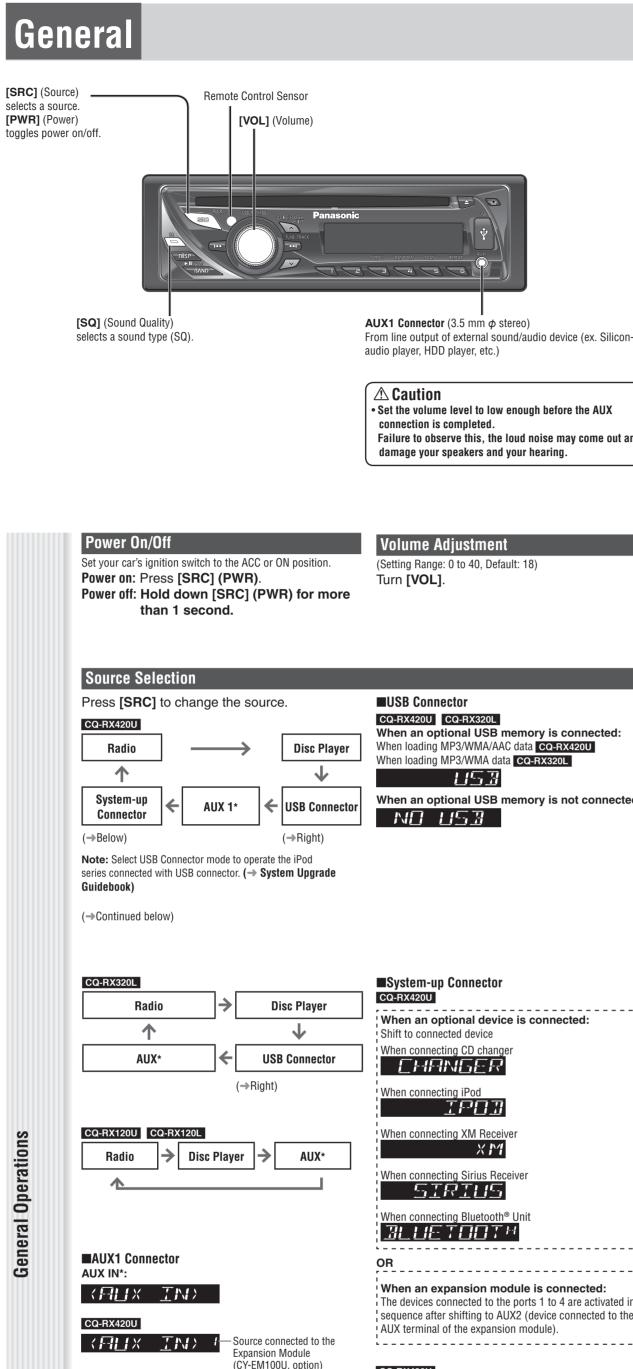


pointed object.

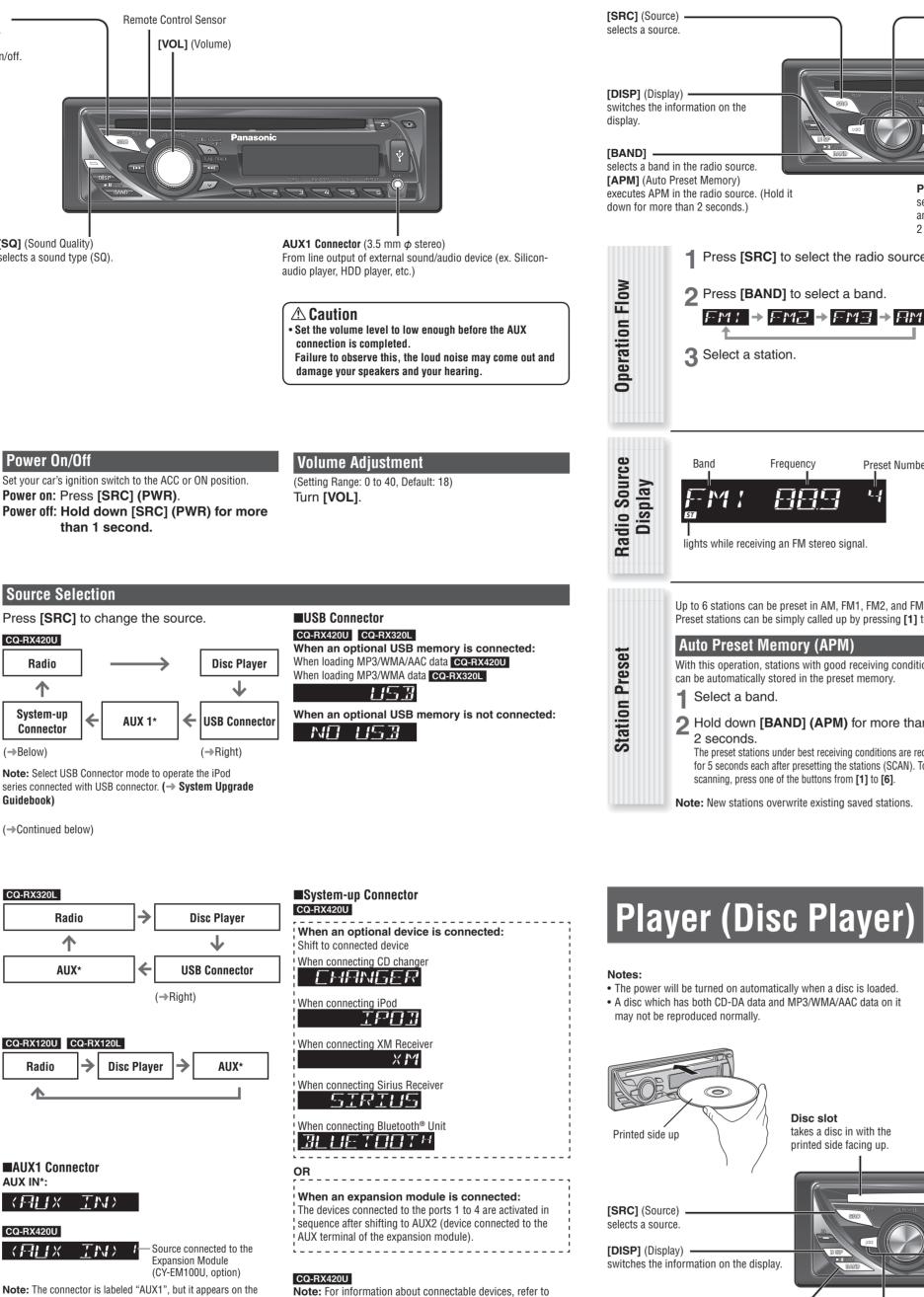
in the remote control)

room temperature)

Battery Life: Approximately 6 months under normal use (at



display as "<AUX IN>".

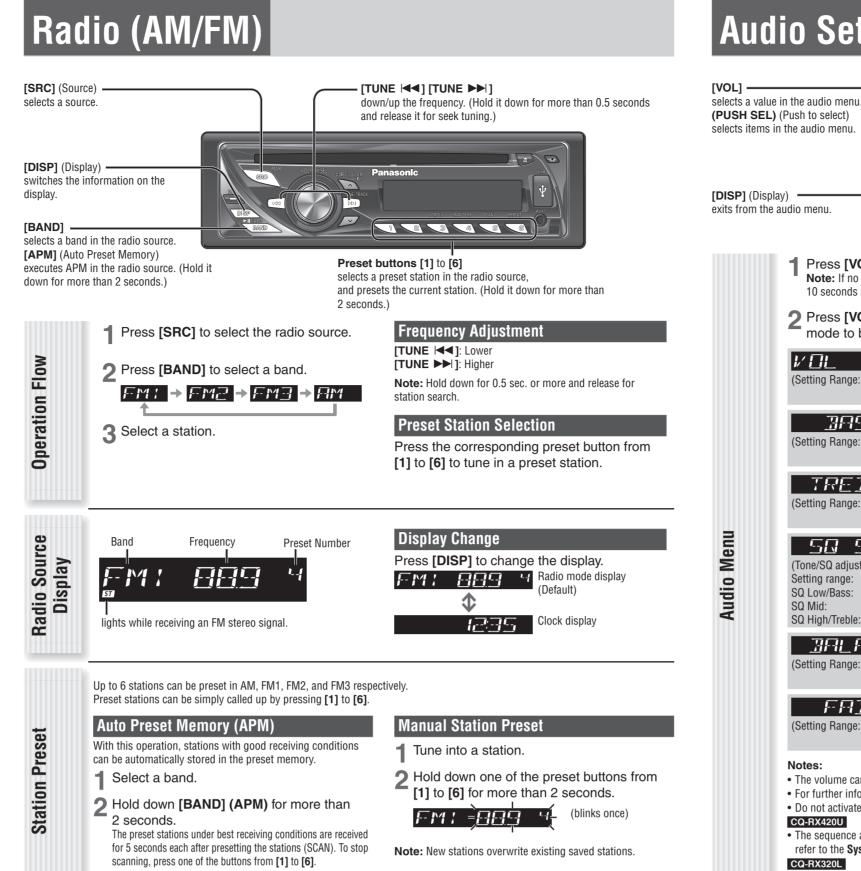


the **System Upgrade Guidebook** or the instruction manual for

Note: For information about connectable devices, refer to the

Operating Instructions USB or the instruction manual for each

each device.



Notes for AAC playback is only for the model CQ-RX420U.

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

• If you insert an 8 cm {3"} disc and cannot eject it, turn ACC of your

car off once and turn it on again, then press [A] (Eject).

Press [BAND] (►II).

Press again to cancel.

takes a disc in with the skip to the previous/next folder. ejects the disc.

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.

[3] (SCROLL)

Note: New stations overwrite existing saved stations.

printed side facing up.

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.

1 Press [SRC] to select the Disc Player

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

Select a desired portion.

Track/File Selection

Press [| ◀ ◀] / [▶ ▶ |]

Disc Player (CD-DA disc):

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

Disc Player (MP3/WMA/AAC disc):

Folder Selection (MP3/WMA/AAC)

Previous/next track

Previous/next file

may not be reproduced normally.

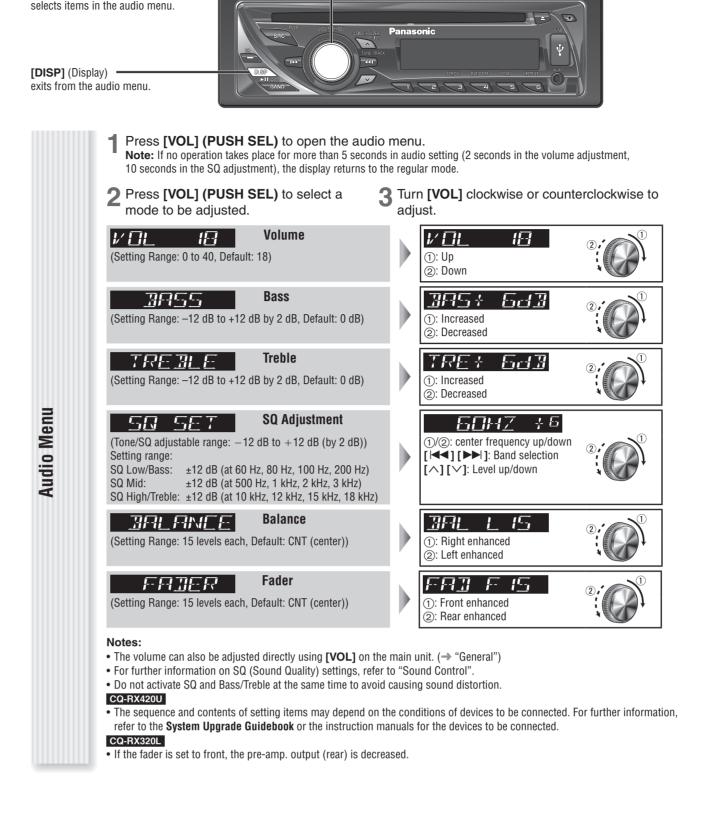
Printed side up

(► | | |) (Play/Pause) _____

toggles pause/play in the player source.

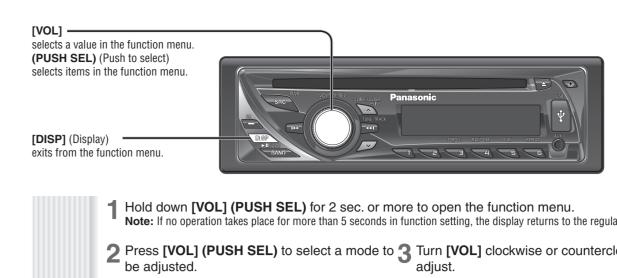
• Do not insert a disc when the ODISC indicator lights.

This unit does not support 8 cm {3"} discs.



Audio Settings





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 mode to **3** Turn **[VOL]** clockwise or counterclockwise to be adjusted. : On (Default) IEMO IEMO ĐN € You can set up the monitor to display or hide the demonstration screen. **Note:** Button operation with either the main unit or]]EM[] =[]FF remote control allows users to cancel the demonstration screen for 20 seconds and enable the selected operation even in the demo-on mode. 1): Volume dowr MITE KEY Mute/Attenuation by 10 steps You can select mute or attenuation. (2): Volume off KEY = MUTE disabled.) (Default) AUX I IN If AUX1 is not used, the AUX1 mode is skipped when selecting the source. P(X) = P(X)FILLX = []M= disabled.) (Default) HUX IN If AUX is not used, the AUX mode is skipped when selecting the source. - FLIX = [FFF=

The sequence and contents of setting items may depend on the conditions of devices to be connected. For further information

A Warning

consult your dealer.

refer to the **System Upgrade Guidebook** or the instruction manuals for the devices to be connected.

(ROCK) speedy and heavy sound: 1) Press [SQ] to activate the SQ selection mode. exaggerates bass and treble. ②Press [SQ] to select the sound type as follows. 50-PDP 3 Press **[DISP]** to return to the regular mode. (POP) wide-ranged and deep sound: slightly emphasizes bass and treble |50-1/0EAL4 • After pressing [SQ] on the main unit, you can also select a (VOCAL) clear sound: sound type by pressing the preset buttons [1] to [6]. emphasizes middle tone and slightly emphasizes treble · Please refer to "Audio Settings" for the adjustment to each |50-48ZZ 5 (JAZZ) jazz-specific deep sound: sound with emphasis on sharpness of high-hat and echo 50-CLU3 6 (CLUB) club and disco-specific sound

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

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

them for instant recall.

sound type (SQ). (→ Above)

SQ3 (3-Band Sound Quality)

names such as ROCK and JAZZ.

avoid causing sound distortion.

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

car-interior acoustics and your personal preferences.

You can adjust the characteristics of the currently selected 1 Press [VOL] (PUSH SEL: Select) to open the audio

reproduction of realism being in a club

SO-FLAT

(FLAT) flat frequency response:

50-ROCK 2

does not emphasize any part. (Default

It is also possible to preset up to 5 different adjusted SQs. Press [VOL] (PUSH SEL: Select) to Center frequency and level are adjustable in each of 3 bands.

This lets you fine-tune sound quality for each genre to suit Adjust each band. 1)/(2): center frequency up/down Tone/SQ adjustable range: -12 dB to +12 dB (by 2 dB)[►]: Band selection SQ Low/Bass: ±12 dB (at 60 Hz, 80 Hz, 100 Hz, 200 Hz) $[\land] [\lor]$: 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) • The bass/treble control level of each frequency is fixed to

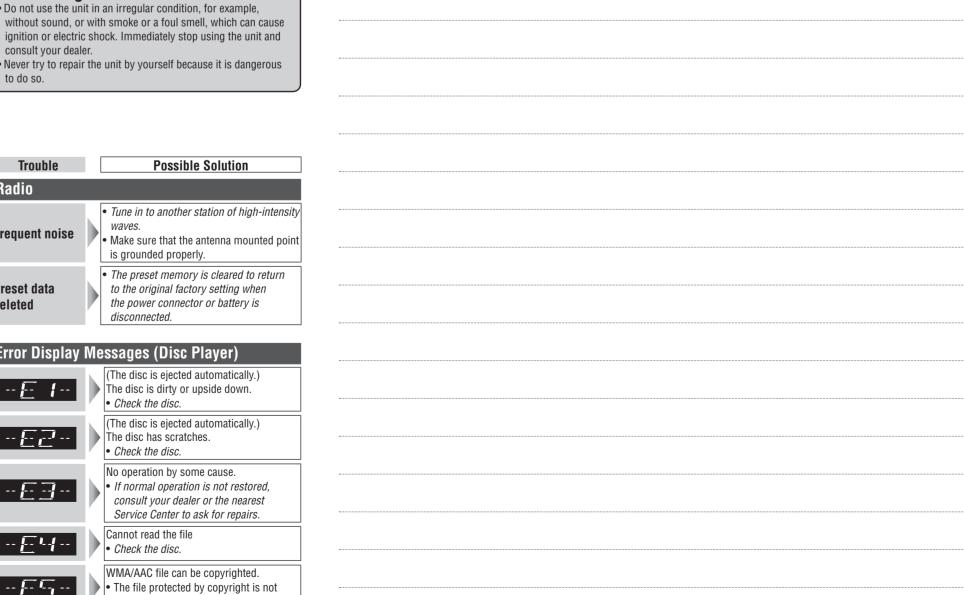
the frequency that has been selected for SQ. 4 Hold down the numeric button [2] to [6] for 2 sec. or more. To return an adjusted SQ to the default setting

1) Press [SQ], and select the SQ which is to be returned to • The adjusted SQ is preset in the number of the selected the default setting. (Only for main unit) button, and return to the regular mode resumes. ②Hold down [BAND] for 2 sec. or more. When you suspend the SQ preset adjustment, each level remains your recent adjustment until a new SQ presetting operation is performed or you call up the SQ preset. • You cannot save any SQ presetting value in [1] button. Any SQ adjustments will not change the call up screen

If You Suspect Something Wrong

handle themselves.

			Radio		
		Start the engine. (Or turn the ignition switch to the ACC position.) Verify the wiring. (battery lead, power lead, ground lead, etc.)	Frequent noise	•	 Tune in to another station of high-intensity waves. Make sure that the antenna mounted point is grounded properly.
		 Fuse blown (Contact the nearest Service Center.) Ask a professional for fuse replacement. Be sure to use the same rated fuse. 	Preset data deleted)	The preset memory is cleared to return to the original factory setting when the power connector or battery is disconnected.
	•	 Disable the mute function. Verify the wiring. Wait until the dew disappears before 	Error Display	Me	essages (Disc Player)
	•	Make sure that grounding is established properly.	E 1		(The disc is ejected automatically.) The disc is dirty or upside down. • Check the disc.
om ront,	•	Adjust the balance and fader. Verify the wiring.	-E2-		(The disc is ejected automatically.) The disc has scratches. • Check the disc.
iker ht	 	Connect the speaker lead correctly.	-E3-	•	No operation by some cause. • If normal operation is not restored, consult your dealer or the nearest Service Center to ask for repairs.
er			<u>F</u> -4		Cannot read the file • Check the disc.
ly	•	Load the disc correctly. Clean the disc.	E5		WMA/AAC file can be copyrighted. • The file protected by copyright is not playable.
ıy		Clean the disc.	regarding optional p	rodu	em Upgrade Guidebook for error messages ucts. Taking Instructions USB for error messages
due	•	The maximum permissible tilt angle is 30°. Secure the unit.	regarding optional p		



Troubleshooting

heck 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 Service Center. 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 those are too dangerous for users to

• To return to the regular mode, press [DISP].

Trouble	Possible Solution		
Common			
No power	 Start the engine. (Or turn the ignition switch to the ACC position.) Verify the wiring. (battery lead, power lead, ground lead, etc.) Fuse blown (Contact the nearest Service Center.) 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	Adjust the balance and fader. Verify the wiring		

Press [▲]. If the disc is still not ejected,

contact the nearest Service Center.

or rear speal older Repeat Play (MP3/WMA/AAC) eft and righ sounds are reversed

oor sound

Sound skip (

to vibration

Disc not

Hold down [6] (REPEAT) for more than 2 seconds. Hold down again to cancel. older Random Play (MP3/WMA/AAC) Scan Play All the available files in current folder are played in a random

Hold down [4] (RANDOM) for more than 2 seconds. Hold down again to cancel.

epeat Play ne current song (track/file) is repeated. Press [6] (REPEAT). Press again to cancel.

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

Lights when the disc is loaded.

Play Mode indicators

Play Mode indicators

MP3/WMA/AAC Mode Display

Lights when folder random/repeat/scan is on.

indom Play

Press [4] (RANDOM).

Press again to cancel.

No sound, The first 10 seconds of each songs (tracks/files) is played in or disc is automatical

Disc Player (MP3/WMA/AAC

LOVE ME File name/

Clock

*ID3/WMA/AAC Tag On/Off

album title and song title/

folder name/file name are

TFIE FF (Default)

TAG ON

displayed.

Hold down [3] for more than

Title, artist

Normal

Press [5] (SCAN). Press again to cancel. Ider Scan Play (MP3/WMA/AAC) From the next folder, the first 10 seconds of the first file in

each folder is played in sequence. Hold down [5] (SCAN) for more than 2 seconds. Hold down again to cancel.

Press [DISP] to change the display.

838

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

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

The current folder is repeated.

(CD-DA disc):