TEAC

xxxxxxxxxx

CR-H500NT

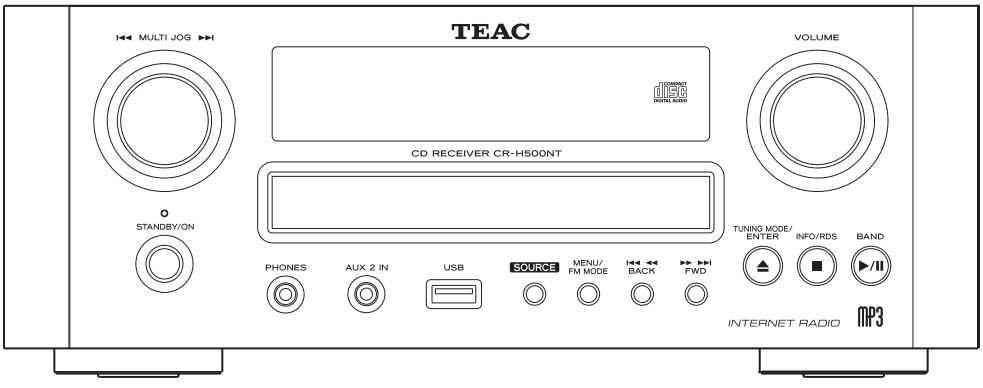
AM/FM Stereo Receiver

OWNER'S MANUAL
MODE D'EMPLOI
MANUAL DEL USUARIO

ENGLISH

FRANÇAIS

ESPAÑOL



CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a bookcase or similar unit.
- The apparatus draws nominal non-operating power from the AC outlet with its POWER or STANDBY/ON switch not in the ON position.
- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
- If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.
- Caution should be taken when using earphones or headphones with the product because excessive sound pressure (volume) from earphones or headphones can cause hearing loss.

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WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

- DO NOT REMOVE THE EXTERNAL CASES OR CABINETS TO EXPOSE THE ELECTRONICS. NO USER SERVICEABLE PARTS ARE WITHIN!
- IF YOU ARE EXPERIENCING PROBLEMS WITH THIS PRODUCT, CONTACT TEAC FOR A SERVICE REFERRAL. DO NOT USE THE PRODUCT UNTIL IT HAS BEEN REPAIRED.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

For U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

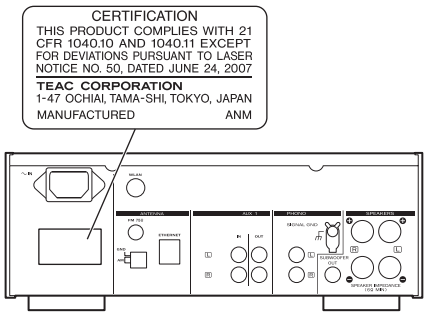
- Reorient or relocate the equipment and/or the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance will void the user's warranty.

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as class 1 laser product. There is not hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.
The label required in this regulation is shown ①.

① For USA



Optical pickup :

Type	: SF-P101VZ
Manufacturer	: Sanyo Electric Co., Ltd
Laser output	: Less than 1mW on the objective lens
Wavelength	: 790±30nm

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Supply of this product does not convey a license nor imply any right to distribute MPEG Layer-3 compliant content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), streaming applications (via Internet, intranets and/or other networks), other content distribution systems (pay-audio or audio-on-demand applications and the like) or on physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit http://mp3licensing.com.

This product is protected by certain intellectual property rights of Microsoft Corporation. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft.

"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

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

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Thank you for choosing TEAC. Read this manual carefully to get the best performance from this unit.

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Before Use

Read this before operations.

- When the unit is turned on, switching on the TV may result in lines appearing on the TV screen, depending on the condition of the electric waves of the TV broadcast. This is not malfunction in the unit or the TV. In this case, turn off the unit.
- As the unit may become warm during operation, always leave sufficient space around the unit for ventilation.
- The voltage supplied to the unit should match the voltage as printed on the rear panel. If you are in any doubt regarding this matter, consult an electrician.
- Choose the installation location of your unit carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibrations and excessive dust, heat, cold or moisture.
- Do not place the unit on an amplifier/receiver.
- Do not open the cabinet as this might result in damage to the circuitry or electrical shock. If a foreign object should get into the set, contact your dealer or service agency.
- When removing the power plug from the wall outlet, always pull directly on the plug, never yank the cord.
- Do not attempt to clean the unit with chemical solvents as this might damage the finish. Use a clean, dry cloth.
- Keep this manual in a safe place for future reference.
- The operations are illustrated using the European model for example in this manual.

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Discs

Discs which can be played on this unit:

- Conventional audio CDs bearing the COMPACT DISC DIGITAL AUDIO logo on the label.

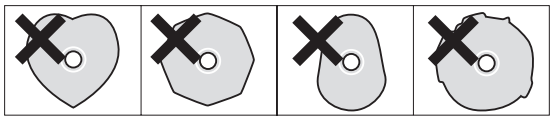
- Properly finalized CD-R and CD-RW discs
- MP3 CDs

Note:

- Depending on the quality of the disc and/or the condition of the recording, some CD-R/CD-RW discs may not be playable.
- Copy-protected discs and other discs which do not conform to the CD standard may not play back correctly in this player. If you use such discs in this unit, TEAC Corporation and its subsidiaries cannot be responsible for any consequences or guarantee the quality of reproduction. If you experience problems with such non-standard discs, you should contact the producers of the disc.
- Always place the disc on the disc tray with the label side uppermost. (Compact discs can be played or recorded only on one side.)
- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.

- If the disc becomes dirty, wipe the surface radially from the center hole outward towards the outer edge with a soft and dry cloth.

- Never use such chemicals as record sprays, antistatic sprays or fluid, benzine or thinner to clean the discs. Such chemicals will do irreparable damage to the disc's plastic surface.
- Discs should be returned to their cases after use to avoid dust and scratches that could cause the laser pickup to "skip".
- Do not expose discs to direct sunlight or high humidity and temperature for extended periods. Long exposure to high temperatures will warp the disc.
- Do not play any disc that is warped, deformed or damaged. Playing such discs may cause irreparable harm to the playing mechanisms.
- CD-R and CD-RW discs are more sensitive to the effects of heat and ultraviolet rays than ordinary CDs. It is important that they are not stored in a location where direct sunlight will fall on them, and which is away from sources of heat such as radiators or heat-generating electrical devices.
- Printable CD-R and CD-RW discs aren't recommended, as the label side might be sticky and damage the unit.
- Do not stick papers or protective sheets on the discs and do not use any protective coating spray.
- Use a soft oil-based felt-tipped pen to write the information on the label side. Never use a ball-point or hard-tipped pen, as this may cause damage to the recorded side.
- Never use a stabilizer. Using commercially available CD stabilizers with this unit will damage the mechanisms and cause them to malfunction.
- Do not use irregular shape CDs (octagonal, heart shaped, business card size, etc.). CDs of this sort can damage the unit.



- If you are in any doubt as to the care and handling of a CDR/CD-RW disc, read the precautions supplied with the disc, or contact the disc manufacturer directly.

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MP3 and WMA

- This unit can play MP3 files recorded in various external USB storage devices such as USB flash memory, MP3 player or HDD.
  The HDD must be formatted FAT 16 or FAT 32, but not NTFS.

- When more than 2000 files are recorded on the USB memory, the unit might not be able to play them correctly.

- File names of MP3 or WMA should be alphanumeric characters. This unit cannot display symbols and full-size or double-byte characters (such as Japanese, Chinese, etc.) correctly. Also, be sure to use the file extension. (".mp3" for MP3 files, ".wma" for WMA files.)

- MP3 files are mono or stereo MPEG-1 Audio Layer 3 format. This unit can play MP3 files with a sampling frequency of 44.1 kHz or 48 kHz, and a bit-rate of 320 kbps or less.

- This unit can play WMA files with a sampling frequency of 44.1 kHz and a bit-rate of 192 kbps or less.
  WMA stands for Windows Media Audio.

- Audio encoded at 128 kbps should sound close to regular audio CD quality. Although this player will play lower bit-rate MP3 files, the sound quality becomes noticeably worse at lower bit-rates.

iPod compatibility

This unit can be connected to and used with the following iPod models.

iPod (5th generation)
iPod classic
iPod nano (1st generation)
iPod nano (2nd generation)
iPod nano (3rd generation)
iPod nano (4th generation)
iPod nano (5th generation)
iPod touch
iPod touch (2nd generation)
iPod touch (3rd generation)

- You cannot use following models in "Direct Mode" of Display mode and for the timer:
  iPod (5th generation,) iPod nano (1st/2nd generation)
  (See page 29 for information about Display mode.)

- This unit cannot output video from a connected iPod.

- To connect the iPod, use the USB cable supplied with iPod.

- It cannot be played if you connect an iPod shuffle to this port.

Compatible iPod Software
In case your iPod will not work with the CR-H500NT or with the remote control unit, software update may solve the problem.
Visit the Apple website and download the latest iPod software.

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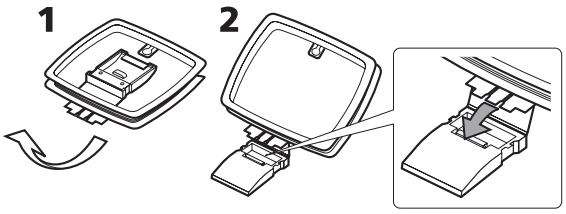
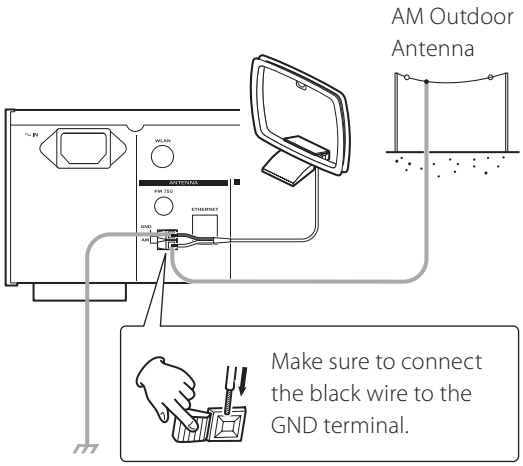
Connecting Antennas (AM/FM)

AM Indoor Loop Antenna

The high-performance AM loop antenna provided with this unit is sufficient for good reception in most areas.
To stand the loop antenna on a surface, fix the claw to the slot in the antenna base.



Connect the loop antenna's wires to the AM antenna terminals.
Place the antenna on a shelf or hang it on a window frame, etc., in the direction which gives the best reception. Keep all other wires such as power cords, speaker wires or interconnect wires as far away as possible from the antenna.

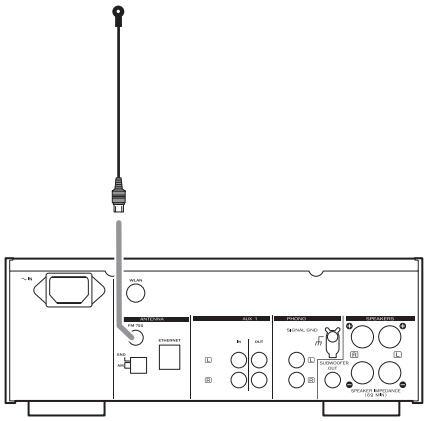


- If the AM loop antenna provided does not deliver sufficient reception (often due to being too far from the transmitter or in a concrete building, etc.), it may be necessary to use an AM outdoor antenna.
  Use either a high quality commercially available AM antenna or, if not available, an insulated wire more than 5 m long. Strip one end, and connect this to the terminal as shown.
  The antenna wire should be fitted outdoors or indoors near a window. For better reception, connect the GND terminal to a reliable ground.

Note:
Even when using an AM outdoor antenna, do not disconnect the AM loop antenna.

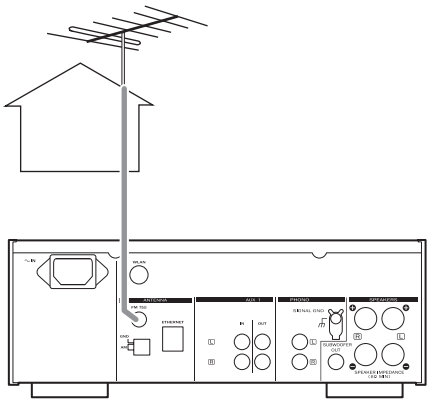
FM Indoor Antenna

Connect the lead-type FM antenna to the FM 75Ω socket, extend the lead and tune in your favourite station (see page 30). Adjust the antenna in a suitable location like a window frame or wall until the reception is best and then affix the antenna in that position using thumb tacks, push pins or any other suitable means.



FM Outdoor Antenna

In an area where FM signals are weak, it may be necessary to use an FM outdoor antenna.
Generally, a 3-element antenna will be sufficient; if you live in an area where the FM signals are particularly weak, it may be necessary to use one with 5 or more elements.



- Disconnect the FM indoor antenna when using an outdoor antenna.

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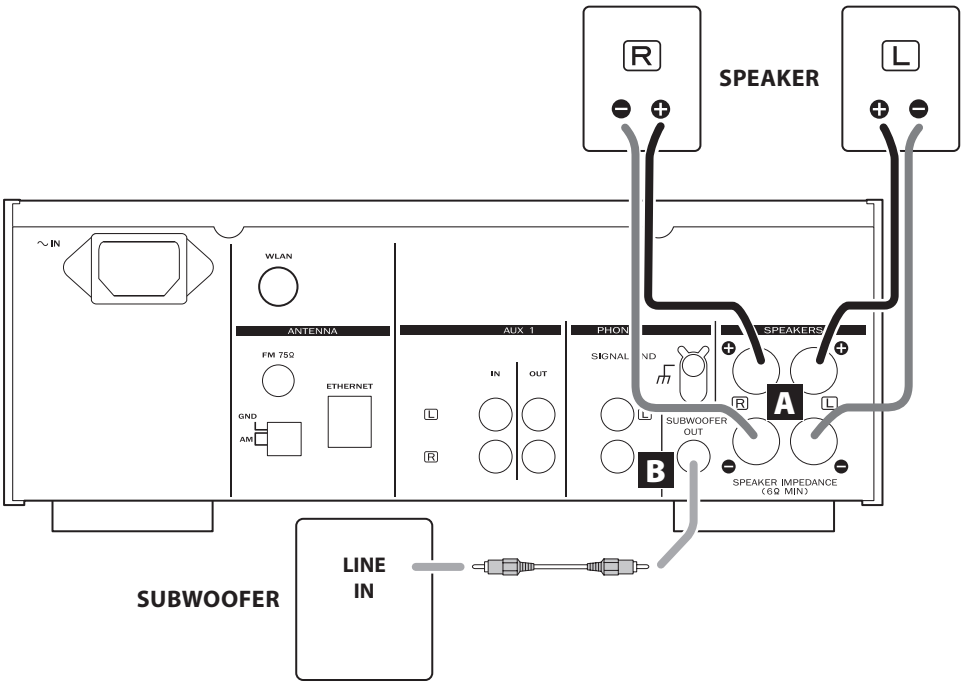
Speaker Connections



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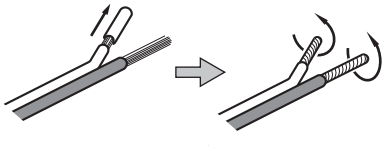
A Speaker Connections

CR-H500NT's ⊕ (positive) terminals are red (for the right speaker) and white (for the left speaker.) The ⊖ (negative) terminals are black.
The ⊕ side of the speaker cable is marked to make it distinguishable from the negative side of the cable. Connect this marked side to the red and white ⊕ terminals and the unmarked side to the black ⊖ terminals of CR-H500NT and speakers.

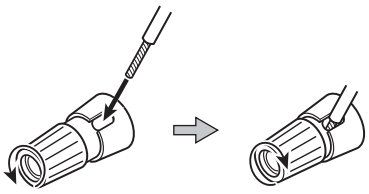
CAUTION

- To avoid damaging the speakers with sudden high-volume sound, be sure to switch the power off before connecting the speakers.
- Check the impedance of your speakers. Connect speaker with an impedance of 6 ohms or more.
- Prepare the speaker cables for connection by stripping off approximately 10 mm or less (no more as this could cause a short-circuit) of the outer insulation. Twist the wires tightly together to avoid tangles:



How to connect

1. Turn the terminal cap counter-clockwise to loosen it. The speaker terminal caps cannot be fully removed from the base.
2. Insert the wire into the terminal fully and turn the terminal cap clockwise to securely connect it:



3. Make sure it is fastened firmly by pulling the cable lightly.

For European customers

In accordance with European safety regulations, it is not possible to connect banana plugs into the speaker terminals on European models. The holes into which banana plugs are inserted have been covered with black caps. Connect the speakers using spades or bare wires. If the black caps become separated from the terminals, return them to their original position.

B SUBWOOFER OUT jack

Connect a commercially available powered subwoofer.

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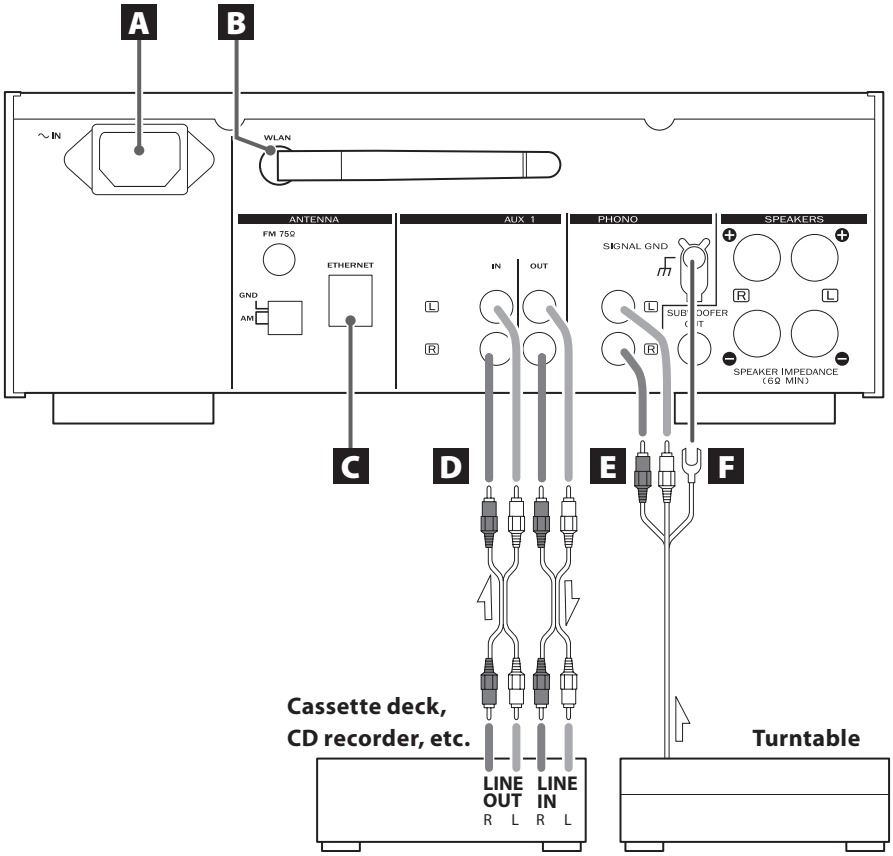
Connections



CAUTION

- Turn off the power of all the equipment before making connections.
- Read instructions of each component you intend to use with this unit.
- Be sure to insert each plug securely. To prevent hum and noise, do not bundle the connection cables with the power cord or speaker cable.

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A AC Power Cord

Plug this cord into an AC wall socket.

- Unplug the power cord when you are not going to use the unit for long periods of time.

B Wireless LAN antenna

If you can use a wireless LAN in your installation site, the unit connects to the LAN using the wireless LAN antenna. Stand the antenna up to use it.

C ETHERNET port

To use a wired Internet connection, connect the Ethernet port of this unit to the Ethernet network using a commercially available Ethernet cable.

D AUX 1 jacks

These jacks transmit an analog 2-channel audio signal. Connect the components using RCA cables.

Make sure to connect the cables as follows:

white plug → white jack (L: left channel)
red plug → red jack (R:right channel)

If you want to use a recorder (ex. a cassette deck or a CD recorder, etc.) with the CR-H500NT, connect the output jacks of the recorder to the AUX 1 IN jacks of the CR-H500NT, connect the input jacks of the recorder to the AUX 1 OUT jacks of the CR-H500NT.

- Be sure to insert each plug securely. To prevent noise and humming, avoid bundling the signal interconnection cables together with the AC power cord or speaker cables.

E PHONO jacks

Connect the turntable's RCA pin cable to the PHONO jacks.

Make sure to connect the cables as follows:

white plug → white jack (L: left channel)
red plug → red jack (R:right channel)

- Be sure to insert each plug securely. To prevent noise and humming, avoid bundling the signal interconnection cables together with the AC power cord or speaker cables.
- Moving Magnet (MM) cartridges can be used for this unit.

F SIGNAL GND

Connect the ground lead of the turntable to this terminal.

- This is not a safety earth.
- If the turntable's ground lead is not connected to this terminal, hum noise may be heard.

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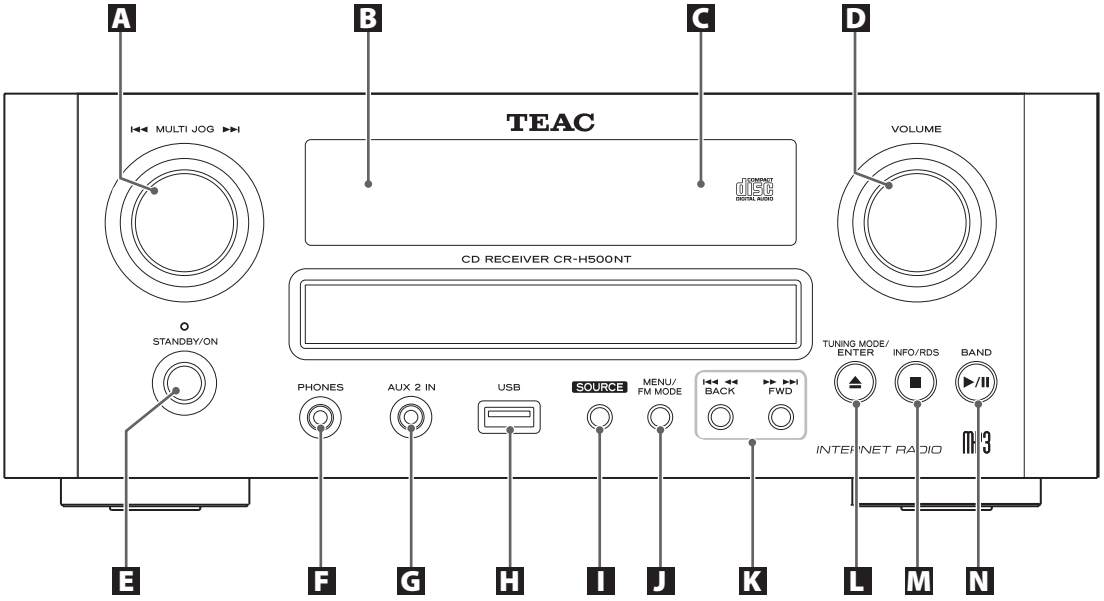
Part names (main unit)



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A MULTI JOG

In TUNER mode, use this knob to tune in stations or select the preset stations.
In iPod mode, use this knob to scroll up and down the menu.
In CD/USB mode, use this knob to skip tracks/files during playback or in the stop mode.

B Remote sensor

When operating the remote control unit, point it towards the remote sensor.

C Display

D VOLUME

Turn this knob to adjust the volume.

- The volume level is memorized even if the unit turns off.

E STANDBY/ON

Press this switch to turn the unit on or off.
The standby indicator turns red when the unit is in the standby mode. When the unit is turned on, the indicator turns blue.

F PHONES

For private listening, insert the headphones plug into this jack, and adjust the volume by turning the VOLUME knob.

G AUX 2 IN

Connect equipment such as a portable audio player using a 3.5 mm stereo mini plug cable.

H USB port

Connect an iPod or external USB storage device.

I SOURCE

Use this button to select a source.

J MENU/FM MODE

Use this button to go back to previous menu of iPod. This button is equivalent to the MENU button on your iPod.
In FM mode, use this button to select stereo or monaural.

K skip (I◄◄ ◄◄/►► ►►I)

In CD/USB mode, use these buttons to skip tracks/files during playback or in the stop mode of the CD or USB.
In iPod mode, use these buttons to skip songs during playback or in pause mode of the iPod.
During playback, hold down these buttons to search for a track/file/song.

L TUNING MODE, ENTER, open/close (⏏)

In FM or AM mode, use this button to select the tuning mode.
Use this button to set the time while setting the timer or the clock.
In iPod mode, use this button to confirm selection in menus.
In CD mode, use this button to open and close the disc tray.

M INFO/RDS, stop (■) (For Europe)
INFO, stop (■) (For North America)

While listening to the Internet Radio or Music Player, use this button to change the information on the second line of the display.
Only for Europe, use this button to select an RSD mode in FM mode.
In USB/CD mode, use this button to stop playback.

N BAND, play/pause (►/II)

Use this button to select FM, AM.
In USB/iPod mode, use this button to start or pause playback of the iPod or USB.
In CD mode, use this button to start or pause playback of the CD.

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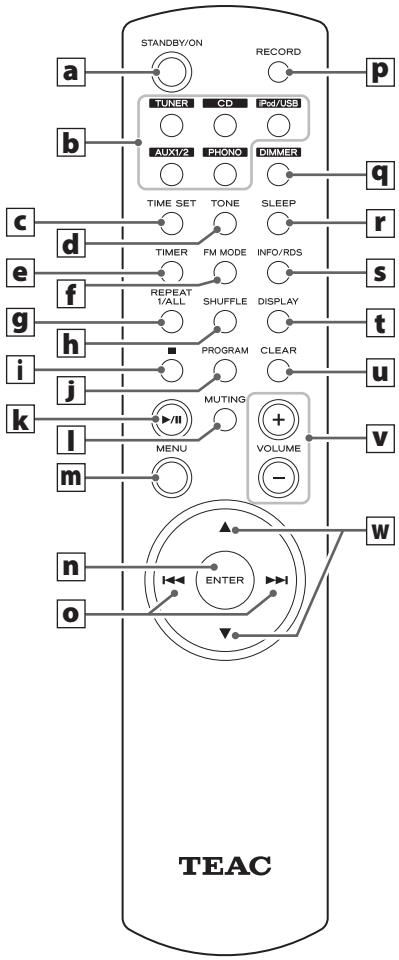
Part names (remote control unit)



a STANDBY/ON

Press this button to turn the unit on or standby.

b TUNER, CD, iPod/USB, AUX 1/2, PHONO

Use these buttons to select a source.

c TIME SET

Use this button to adjust the clock and to set a timer.

d TONE

Use this button to adjust bass and treble together with scroll button (▲ or ▼).

e TIMER

Use this button to turn on or off the timer function.

f FM MODE

In FM mode, use this button to select stereo or monaural.

g REPEAT 1/ALL

In USB/iPod mode, use this button to set the repeat playback of the iPod or USB.

In CD mode, use this button to set the repeat playback of the CD.

h SHUFFLE

In USB/iPod mode, use this button to start shuffle playback of the iPod or USB.

In CD mode, use this button to start shuffle playback of the CD.

i stop (■)

In USB mode, use this button to stop playback of the USB.

In CD mode, use this button to stop playback of the CD.

j PROGRAM

In USB/iPod mode, use this button to enter the programme mode of the USB.

In CD mode, use this button to enter the programme mode of the CD.

In programme mode, use this button to enter the selection.

In TUNER mode, use this button to preset stations.

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k play/pause (►/❚❚)

In USB/iPod mode, use this button to start or pause playback of the iPod or USB.
In CD mode, use this button to start or pause playback of the CD.

l MUTING

Use this button to mute the sound.

m MENU

Use this button to go back to previous menu of iPod. This button is equivalent to the MENU button on your iPod.

n ENTER

Use this button to set the time while setting the timer or the clock.

o skip (I◄◄/►►I)

In CD/USB mode, use these buttons to skip tracks/files during playback or in the stop mode of the CD or USB.
In iPod mode, use these buttons to skip songs during playback or in pause mode of the iPod.

p RECORD

Use this button to start recording to an USB device.

q DIMMER

Use this button to dim the display.

r SLEEP

Use this button to set sleep timer.

s INFO/RDS, stop (■) (For Europe)
INFO, stop (■) (For North America)

While listening to the Internet Radio or Music Player, use this button to change the information on the second line of the display.
Only for Europe, use this button to select an RSD mode in FM mode.
In FM mode, use this button to select an RDS mode.

t DISPLAY

Use this button to change what information is displayed during USB/iPod playback.

u CLEAR

Use this button to clear tracks/files in programme mode.

v VOLUME

Use these buttons to adjust the volume level.

w scroll (▲/▼)

In USB/iPod mode, use these buttons to select a folder or file of USB.
Or use these buttons to scroll menu of the iPod.
After pressing the TONE button these buttons are used to adjust treble and bass.

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Remote Control Unit

The provided remote control unit allows the unit to be operated from a distance.
When operating the remote control unit, point it towards the remote sensor on the front panel of the unit.

- Even if the remote control unit is operated within the effective range, remote control operation may be impossible if there are any obstacles between the unit and the remote control unit.

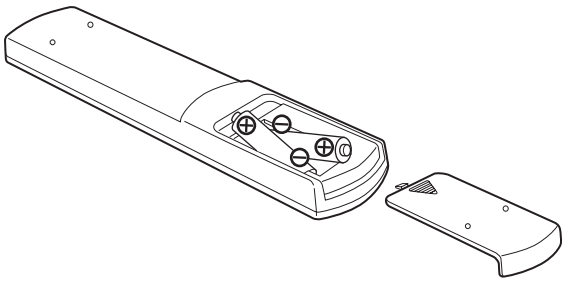
- If the remote control unit is operated near other appliances which generate infrared rays, or if other remote control devices using infrared rays are used near the unit, it may operate incorrectly.
  Conversely, the other appliances may operate incorrectly.

Battery Installation

1. Remove the battery compartment cover.

2. Insert two "AAA" dry batteries. Make sure that the batteries are inserted with their positive "⊕" and negative "⊖" poles positioned correctly.

3. Close the cover.



Battery Replacement

If the distance required between the remote control unit and main unit decreases, the batteries are exhausted. In this case replace the batteries with new ones.

- For more information about collection of batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Precautions Concerning Batteries

- Be sure to insert the batteries with positive "⊕" and negative "⊖" polarities positioned correctly.

- Use batteries of the same type. Never use different types of batteries together.

- Rechargeable and non-rechargeable batteries can be used. Refer to the precautions on their labels.

- When the remote control unit is not to be used for a long time (more than a month), remove the batteries from the remote control unit to prevent them from leaking.

- If the batteries leak, wipe away the liquid inside the battery compartment and replace the batteries with new ones.

- Do not use any other batteries not specified. Do not mix new batteries with old ones or use different types of batteries together.

- Do not heat or disassemble batteries and never throw them in the fire or water.

- Do not carry or store batteries with other metallic objects. The battery may short circuit, leak or explode.

- Never recharge a battery unless it is a verified rechargeable type.

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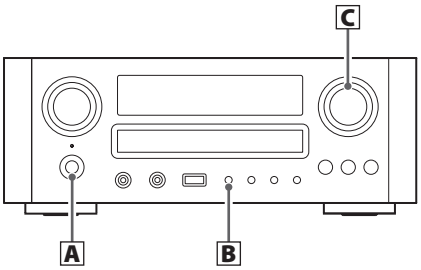
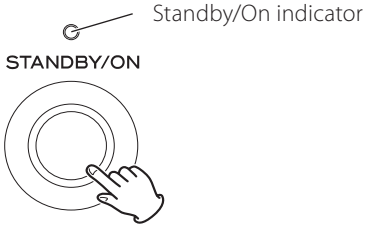
Basic Operation (1)



A How to turn the unit on or off

Press the STANDBY/ON switch to turn the unit on or off.

When you use the system control function, set this switch on, and turn the system on/standby using the remote control unit.

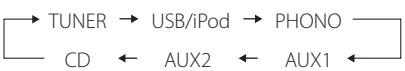


The Standby/On indicator turns blue when the unit is turned on.

- When you turn on the system, the source that was selected last time will start playback automatically.

B How to select source

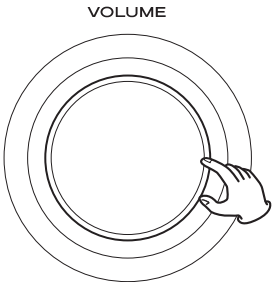
Every time the SOURCE button is pressed, the mode is changed as follows:



Or press the TUNER, iPod/USB, PHONO, AUX 1/2 or CD button on the remote control unit to select the source directly.

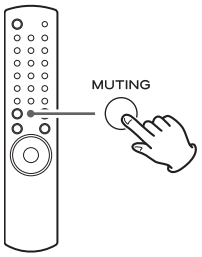
C Adjust the volume

To protect the speakers from a sudden high-volume sound, gradually turn up the volume to the required level with the VOLUME knob.



D Muting

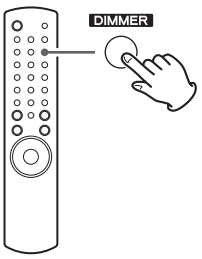
To mute the sound temporarily, press the MUTING button. To cancel muting, press the MUTING button again or change the volume setting.



E Dimmer

Press the DIMMER button to dim the display.

Press the button again to cancel the dimmer function.



- This function will be cancelled when the unit is turned off.

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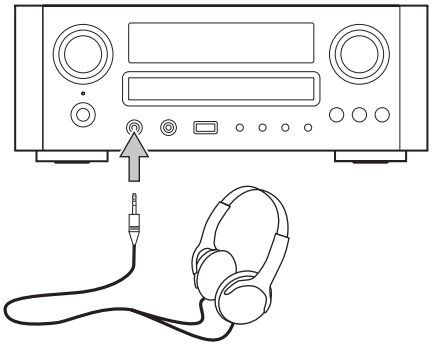
Basic Operation (2)

F Listening through headphones

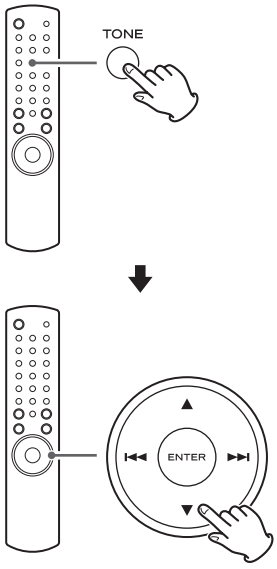
Insert the headphone plug into the PHONES jack, and adjust the volume. The sound from speakers and subwoofer will be cut off.



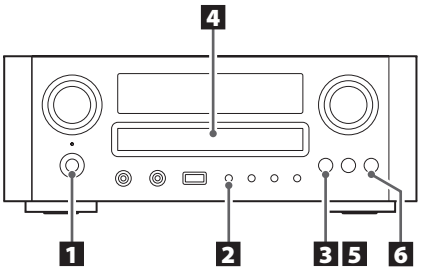
G How to adjust the bass and treble sound

You can change the bass and treble sound between "-10" to "+10".

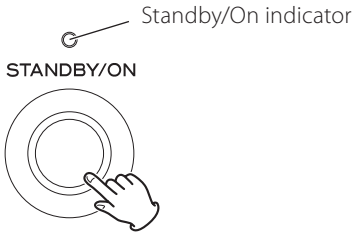
Press the TONE button repeatedly to select BASS or TREBLE. And then press the scroll buttons (▲/▼) button to adjust the sound level within 5 seconds.



Disc Playback



1 Press the STANDBY/ON button to turn the unit on.



The Standby/On indicator turns from orange to blue.
"No disc" will be displayed if no disc has been inserted.

2 Press SOURCE button to select "CD."

3 Press the open/close button (⏏).

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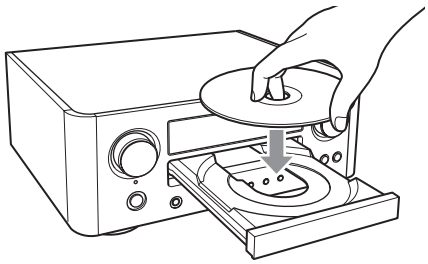
4 Place a disc on the tray with the printed label facing up.



- The disc must be loaded centrally into the disc tray. If the disc is not correctly loaded, it may not be possible to open the tray again once it has closed.
- Never place more than one disc on the tray.
- Do not stick labels or tapes on the disc.
- Do not use irregularly-shaped discs.

5 Press the open/close button (⏏) to close the tray.

- Keep fingers clear of moving tray to avoid trapping them.
- It takes a few seconds for the unit to load a disc. No buttons will work during loading. Wait until the total number of the tracks/files and the total play time of the disc are displayed.

Audio CD

The total number of the tracks and total play time of the disc are displayed.

MP3/WMA disc

The total number of files of the disc is displayed.

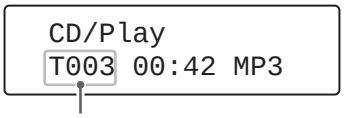
6 Press the play/pause button (►/❚❚) to start playback.

Disc playback starts from the first track/file.

Audio CD

current track number elapsed time of the current track

MP3/WMA disc



current file number

- MP3/WMA files recorded out of folders are automatically put in the "ROOT"' folder, and playback starts from the first file of the ROOT folder.
- If there are folders that has no MP3/WMA file, this unit skips them.
- During playback of MP3/WMA file, "title_artist_album" is scrolled across the display.
- The unit stops automatically when playback of all the tracks/files has finished.
- If you load a disc, and then press the play/pause button (►/❚❚) (or the SHUFFLE button of the remote control unit) without having first closed the disc tray, the disc tray closes and playback starts.

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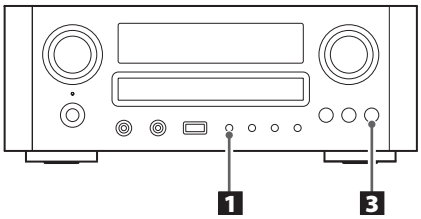
USB Playback



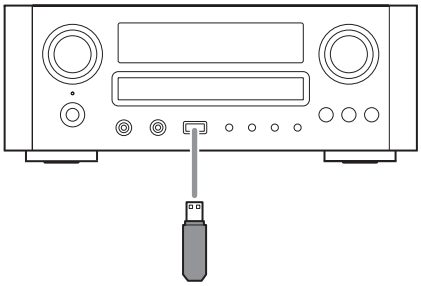
You can play MP3/WMA files by connecting various external USB storage devices such as USB flash memory.

1 Press the SOURCE button repeatedly to select "USB/iPod".

"Not connected" will be displayed if no USB device is connected.

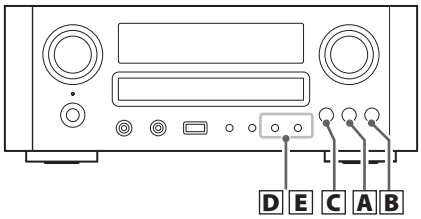
2 Connect the external USB storage device to the unit.

When an HDD device is connected to this unit, it may take several minutes to display the number of files.



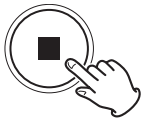
3 Press the play/pause button (►/II).

General Playback Operations (disc/USB)



A To stop playback

Press the stop button (■) to stop playback.



To start playback again, press the play/pause button (►/II).
Playback starts from the first track/file.

B To suspend playback temporarily (pause mode)

Press the play/pause button (►/II) during playback. Playback stops at the current position.
To resume playback, press the play/pause button (►/II).

C To eject the disc

When the open/close button (⏏) is pressed, playback stops and the tray will open.
Afer the disc is ejected, close the tray by pressing the open/close button (⏏).

- When CD is selected as the source, you can eject the disc.

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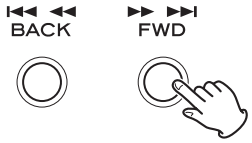
D To skip to the next or a previous track/file



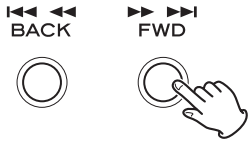
During playback, press the skip/scan buttons (I◄◄ ◄◄/►► ►►I) repeatedly until the desired track/file is found. The selected track/file will be played from the beginning.
On the remote control unit use the skip buttons (I◄◄/►►I).

In the stop or pause mode, press the skip/scan buttons (I◄◄ ◄◄/►► ►►I) repeatedly until the track/file you want to listen to is found. Press the play/pause button (►/❚❚) to start playback the selected track/file.

- When the I◄◄ button is pressed during playback, the track/file being played will be played from the beginning. To return to the beginning of the previous track/file, press the I◄◄ button twice.

- During programmed playback, the next or previous track/file in the program is played.

E Search for a part of a track/file



During playback, hold down the skip/scan buttons (I◄◄ ◄◄/►► ►►I) and release it when the part you want to listen to is found.

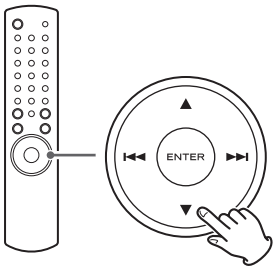
- In USB mode, no sound is emitted while searching.

- The unit stops when the end of the last track/file is reached.

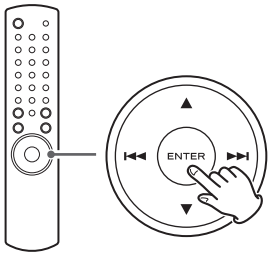
Folder Search

You can select a folder and a file during playback or when stopped.

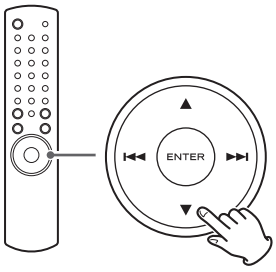
1 Press the scroll buttons (▲/▼) to select a folder.



2 Press the ENTER button.

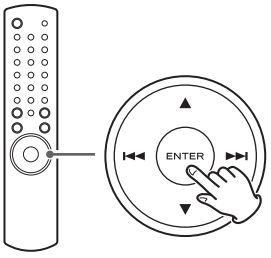


3 If you want to select a file, press the scroll buttons (▲/▼).



- The selection moves within the folder.

4 Press the ENTER button.



Playback starts from the selected file.

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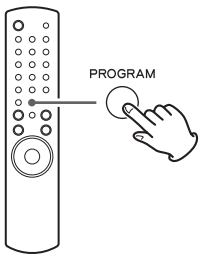
Programmed Playback

Up to 32 tracks/files can be programmed in the desired order.

1 Press the PROGRAM button in the stop mode.



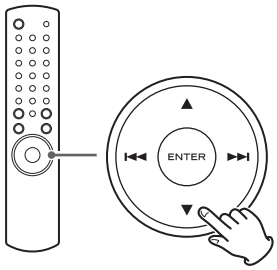
When CD is selected

```
P-00 T000
T016  72:00
```

When USB is selected

```
P00 T0000
Total File 0130
```

2 Press the scroll buttons (▲/▼) to select a track/file.



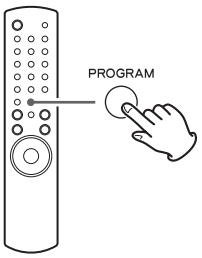
When CD is selected

```
P-01 T002
T016  72:00
```

When USB is selected

```
P01 T0012
Total File 0130
```

3 Within 5 seconds, press the PROGRAM button.



When CD is selected

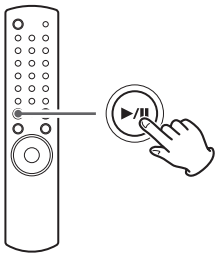
```
P-01 T012
T016  72:00
```

When USB is selected

```
P01 T0012
Total File 0130
```

- Repeat steps **2** and **3** to programme more tracks/files.
- If you made a mistake, press the CLEAR button. The last programmed number will be deleted.
- Up to 32 tracks/files can be programmed. If you attempt to programme more than 32 tracks/files, "P-FULL (Programme is full)" is displayed and no more tracks/files can be programmed.

4 When programming has finished, press the play/pause button (►/❚❚) to start programmed playback.



When the playback of all the programmed tracks/files has finished, or if the stop button (■) or the STANDBY/ON button is pressed, the programme mode will be cancelled.

- If the unit is disconnected from the power supply, the programmed contents will be erased.

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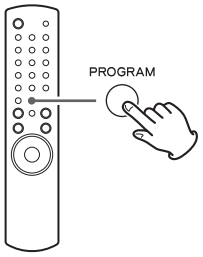
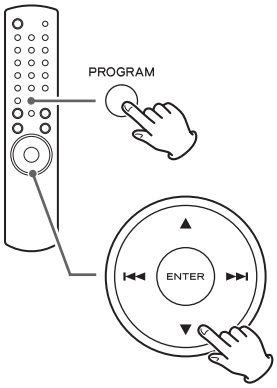
To check the programmed order



In the stop mode, press the PROGRAM button repeatedly. The track/file number and programme number will be shown on the display.

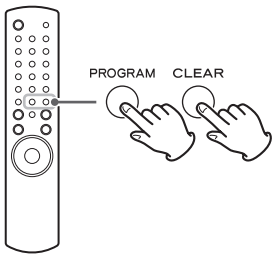
To change or add a track/file to the programme



In the stop mode, press PROGRAM button repeatedly until the program number for which you want to change the track/file appears on the display. Then select a track/file using the scroll buttons (▲/▼). The previous track/file is replaced with the newly selected one.

If you want to add a track/file to the end of the programme, press the PROGRAM button repeatedly until "P-END" briefly appears on the display. Then select a track/file using the scroll buttons (▲/▼). The track/file is added to the programme.

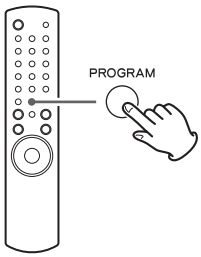
To delete a track/file from the programme



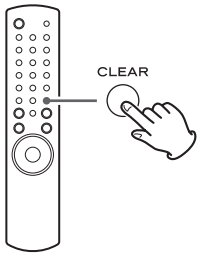
In the stop mode, press the PROGRAM button repeatedly until the programme number appears to be deleted on the display, then press the CLEAR button. The selected track/file is deleted from the programme.

To clear the programme

1. In the stop mode, press the PROGRAM button.



2. Hold down the CLEAR button for more than 4 seconds.



- In the following cases, the programmed contents will also be cleared:
  - pressing the STANDBY/ON button
  - opening the disc tray
  - disconnecting the AC power cord

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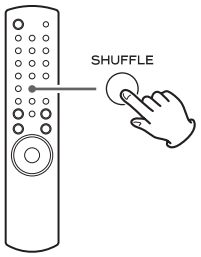
Shuffle Playback



When the SHUFFLE button is pressed, the tracks/files on the disc or USB device will be played randomly.

When CD is selected

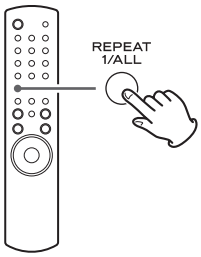
```
CD/Random
T003   00:07
```

When USB is selected

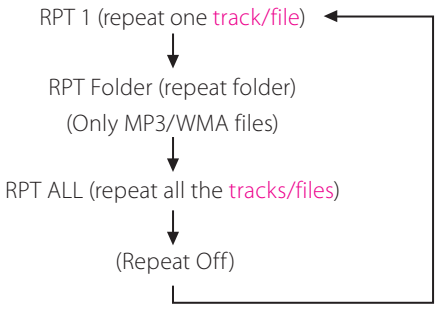
```
USB/Random
T0003 00:07 WMA
```

- If you press the ►►I button during shuffle playback, next track/file will be randomly selected and played. If you press the I◄◄ button, the currently played track/file will be played from the beginning. A track/file cannot be replayed during shuffle playback.
- To cancel shuffle playback, press the SHUFFLE button.
- To stop shuffle playback, press the stop button (■).

Repeat Playback



Every time the REPEAT 1/ALL button is pressed, the mode is changed as follows:



- When the stop button (■) is pressed the repeat mode is cancelled.

Repeat One Track/File (RPT 1)

The track/file being played will be played repeatedly. If you select another track/file in "RPT 1" mode, the track/file you selected will be played repeatedly.

If you select "RPT 1" mode in the stop mode and select a track/file, the selected track/file will be played repeatedly.

Repeat Folder (RPT Folder) (MP3/WMA files only)

All the files in the folder will be played repeatedly. If you select another folder in "RPT Folder" mode, the files in the folder will be played repeatedly.

- You can not select "RPT Folder" mode in the stop mode.

Repeat All (RPT ALL)

All the tracks/files will be played repeatedly.

- In the program mode, the programmed contents are played repeatedly.

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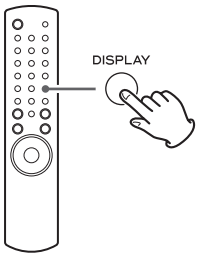
Display



During playback, press the DISPLAY button repeatedly to change the information on the display.

Audio CD:
Display changes as follows:

current track number and elapsed time of the current track

```
CD/Play
T003  00:42
```

current track number and remaining time of the current track

```
CD/Play
T003 -03:02
```

MP3/WMA files:
Default display (scrolling):

Title - Artist Name - Album Name

Display changes as follows:

Default display (scrolling)
↓
Current file number and elapsed time
↓
File Name
↓
Title
↓
Artist Name
↓
Album Name
↓
(back to Default display (scrolling))

Before Recording

CAUTION

- Do not disconnect the USB storage device during recording.
  Do not disconnect the power cord during recording.
  It may cause damage to the products.

- Adjust the volume of the external audio source to suitable level before recording. If not, the recording quality becomes poor.

Note

- The recorded files are saved in the AUDIO folder.

- The FILE NAME is fixed up automatically in regular sequence like "Audio001.MP3", "Audio002.MP3", …….
  For Example:
  If there are "Audio004.MP3" and "Audio009.MP3" files in the AUDIO folder, and you make a recording, a new file will be "Audio010.MP3".

- Before recording check the remaining capacity of the USB storage device using your PC.
  You cannot check the remaining memory capacity with this unit.

- This unit can record up to 2000 files to the USB device.

- The maximum time of the recorded file is 90 minutes and new file is created when the time exceeds 90 minutes. When a new file is created, recording will pause for a few second.

- You cannot record music from an iPod.

- A track recorded onto a USB storage device is converted to a MP3 file at a bit rate of 128 kbps.

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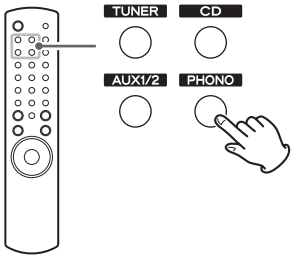
Recording to USB

You can record a source of radio broadcast and external device to the external USB storage device as MP3 files.

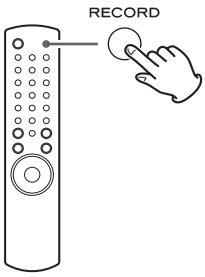
1 Connect the external USB storage device to the USB port of the CR-H500NT.

2 Select a source to be recorded.



- iPod/USB can not be selected.

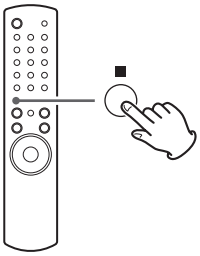
3 Press the RECORD button.



Recording starts.

- You cannot record to an external USB storage device if there is no free space or the device is locked.

To stop recording

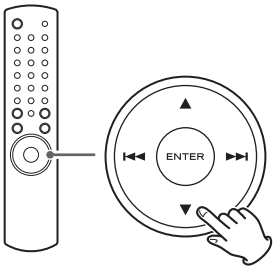


Press the stop button (■).

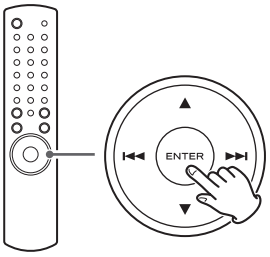
Deleting a file from USB

You can delete a file on the external USB storage device.

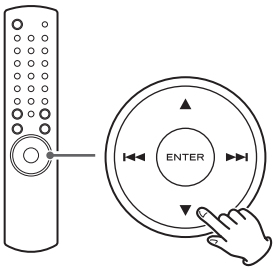
1 In the stop mode, press the scroll buttons (▲/▼) to select a folder.



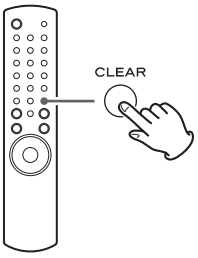
2 Press the ENTER button.



3 Press the scroll buttons (▲/▼) to select the file which you want to delete from the USB device.



4 Hold down the CLEAR button for more than 4 seconds.



"Delete?" is displayed.

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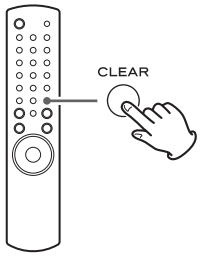
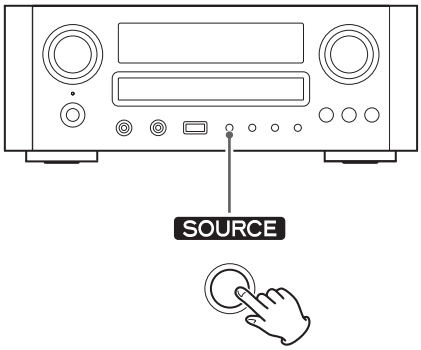
5 Within 3 seconds, press the CLEAR button.



- The delete mode will be cancelled if you do not press the CLEAR button within 3 seconds.

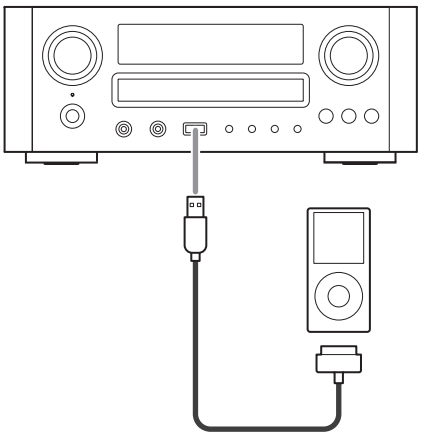
Listening to iPod (1)

1 Press the SOURCE button repeatedly to select "USB/iPod".



2 Connect your iPod using the USB cable supplied with iPod.

The iPod automatically turns on and starts playback from the iPod music list.
When the iPod is connected while the CR-H500NT is set to other source, the iPod will turn on and enter the pause mode.



- The iPod battery will be fully recharged when the iPod is docked and the CR-H500NT is on.

- When the iPod is connected to the CR-H500NT, the headphones jack of the iPod can not output the sound.
  If you want to listen to the sound from your headphones, connect your headphones to the CR-H500NT's PHONES jack.

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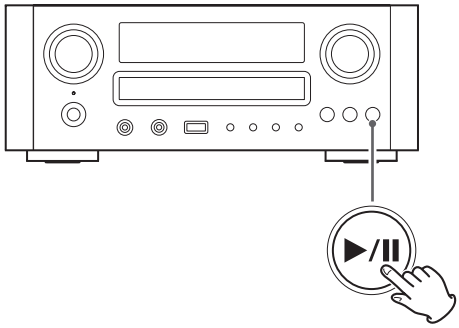
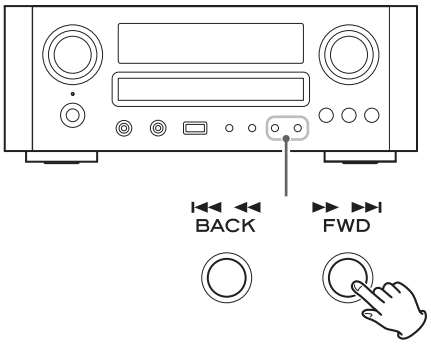
Listening to iPod (2)

To pause playback



During playback, press the play/pause button (▶/II) to pause playback. Playback stops at the current position.
To resume playback, press the play/pause button (▶/II) again.

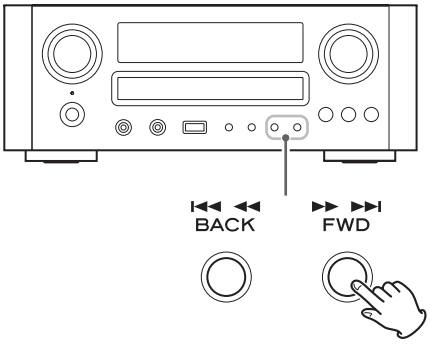
To skip to the next or a previous song



During playback or in pause mode, press the skip buttons (I◀◀/▶▶I) repeatedly until the desired song is found.

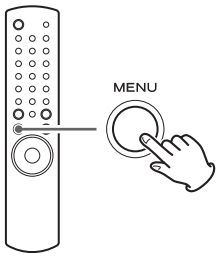
- When the I◀◀ button is pressed during playback, the song being played will be played from the beginning. If you want to play the previous songs, press the I◀◀ button twice or more.

Search for a part of a song



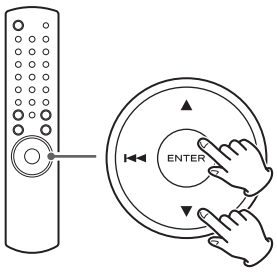
During playback, hold down the skip buttons (I◀◀/▶▶I) and release it when the part you want to listen to is found.

To go back to the previous menu



Press the MENU button to go back to the previous menu.
This button is equivalent to the MENU button on your iPod.

Select the menu item



Press the scroll buttons (▲/▼) of the remote control unit to scroll to the menu item you want, and then press the ENTER button.

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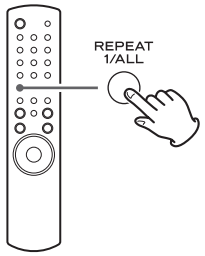
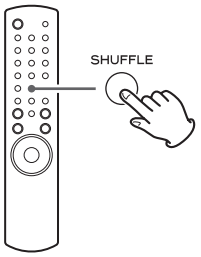
Repeat playback



Every time the REPEAT 1/ALL button is pressed, the mode is changed as follows:

Play (normal playback)
↓
RPT 1 (repeat 1 song)
↓
RPT ALL (repeat all the songs in the list)
↑

Shuffle playback



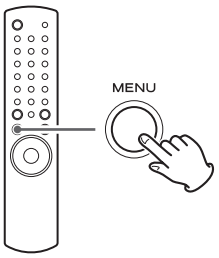
During playback, press the SHUFFLE button to change the shuffle mode.

RDM off
↓
RDM Songs
↓
RDM Album
↑

When you select "RDM Songs", the iPod shuffles songs within the list you choose to play.
When you select "RDM Album", the iPod plays all the songs on an album in order, and then randomly selects another album in the list and plays through it in order.

Changing the display mode

You can select the iPod screen or CR-H500NT display to show the menu.



When the iPod is connected, hold down the MENU button for more than 4 seconds to select which display to be used.

Direct Mode (default)
Select this to use the screen of the iPod.
Menu appears on the screen of the iPod.
The display of the CR-H500NT constantly shows "Direct Mode".

Extended mode
Select this to use the display of the CR-H500NT.
Information on the songs is displayed on the display of the CR-H500NT.

- Song/Album/Artist names of songs should be alphanumeric characters. This unit cannot display symbols and full-size or double-byte characters (such as Japanese, Chinese, etc.) correctly.

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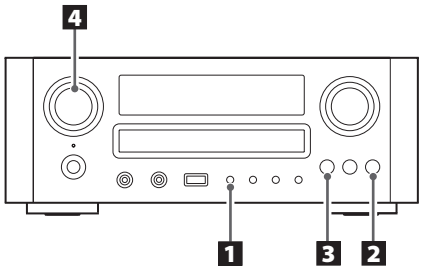
Listening to FM/AM

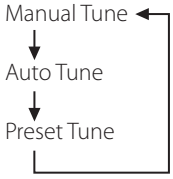


1 Press the SOURCE button repeatedly to select TUNER mode.

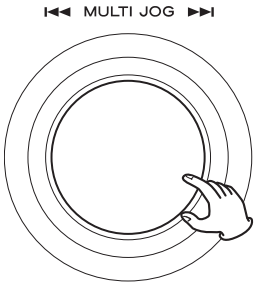
2 Select FM or AM by pressing the BAND button repeatedly.

3 Select the desired tuning mode.

Each time the TUNING MODE button is pressed, the tuning mode changes as follows:



4 Select the station you want to listen to.



Manual tuning mode

Turn the MULTI JOG knob until the station you want to listen to is found.

On the remote control, press the scroll buttons (▲/▼) repeatedly.

The frequency changes by a fixed step (FM: 50 kHz steps, AM: 9 kHz steps).

Auto tuning mode

Turn the MULTI JOG knob to start auto tuning.

When a station is found, the unit tunes in the station automatically. Repeat this step until the station you want to listen to is found.

- Press the ENTER button to stop the auto tuning.

Preset tuning mode

Turn the MULTI JOG knob to select a preset channel.

On the remote control, press the skip buttons (I◄◄/►►I) repeatedly.

The selected preset channel is tuned in.

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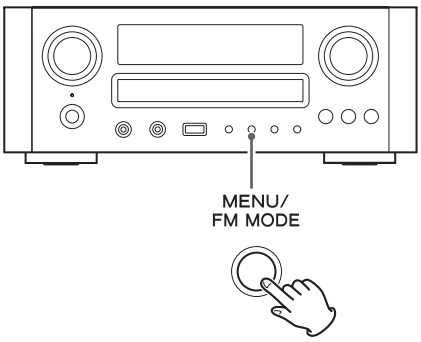
FM Mode

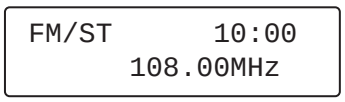
You can select between Stereo and Mono by pressing the FM MODE button when a stereo FM program is tuned in.



Stereo:

FM stereo broadcasts are received in stereo and "ST" is displayed.

When a broadcast signal cannot be tuned in, the sound is muted.



Mono:

Select this mode when the signal is weak. Reception will be forced monaural, reducing unwanted noise.

When you try to listen to another broadcast but its signal cannot be tuned in, the FM mode changes to Stereo and the sound is muted.

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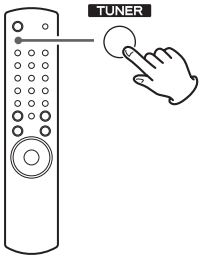
Preset Tuning

Presetting manually (AM/FM)

You can store up to 30 FM, 30 AM.

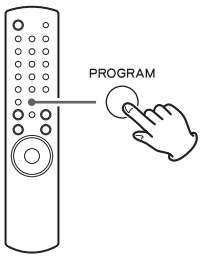
1 Select AM or FM by pressing the TUNER button repeatedly.

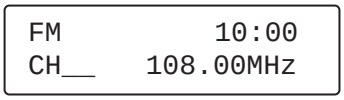


2 Tune in the station you want to store.

See the previous page for the procedure of tuning.

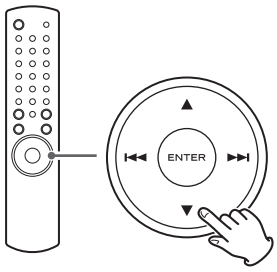
3 Press the PROGRAM button.

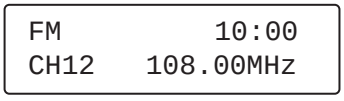




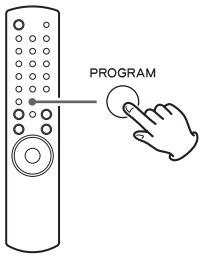
4 Within 4 seconds, select the preset number for this station.

Press the scroll buttons (▲/▼).





5 Within 4 seconds, press the PROGRAM button.

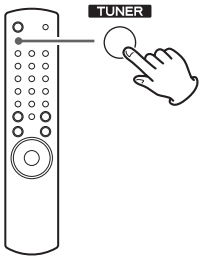


The station is stored.

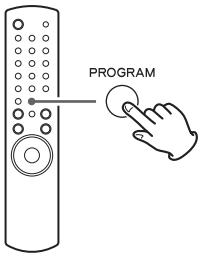
- To store more stations, repeat steps **2** to **5** .
- If you do not press the PROGRAM button within 4 seconds after selecting the preset number, presetting will be cancelled.

Presetting Automatically (FM/AM)

1 Select FM or AM by pressing the TUNER button repeatedly.



2 Hold down the PROGRAM button for more than 3 seconds.



Up to 30 of the best received stations in your area will be stored automatically.

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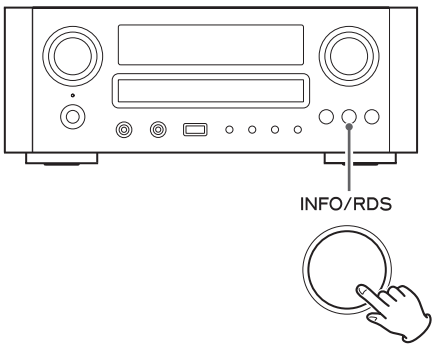
RDS

The Radio Data System (RDS) is a broadcasting service which allows stations to send additional information along with the regular radio programme signal.
RDS works on the FM waveband in Europe only.

1 Tune in an FM station (see page 30).

2 Press the RDS button.



Each time the RDS button is pressed, the RDS mode is changed as follows:

PROGRAM SERVICE

When you select "PROGRAM SERVICE", "PROGRAM SERVICE" will blink for about 3 seconds and then the programme service name or a station's name will be displayed. If there is no programme service data, the frequency will be displayed.

PROGRAM TYPE

When you select "PROGRAM TYPE", "PROGRAM TYPE" will blink for about 3 seconds and then the programme type will be displayed.

CLOCK TIME

Displays the information about times provided from the station.
When you select "CLOCK TIME", "RDS CLOCK TIME" will blink for about 3 seconds and then the clock time will be displayed.

RADIO TEXT

When you select "RADIO TEXT", "RDS RADIO TEXT" will blink for about 3 seconds and then the news of stations composed of up to 64 symbols will be displayed.
If there is no radio text data, RDS mode will be automatically switched to PROGRAM SERVICE mode.

TRAFFIC ANNOUNCE

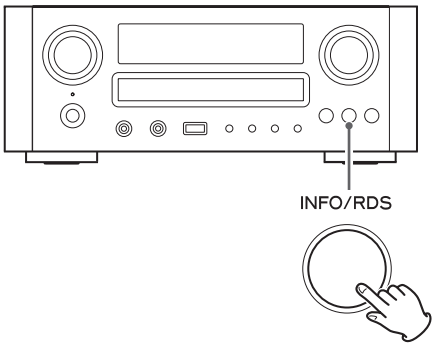
When you select "TRAFFIC ANNOUNCE", "TRAFFIC ANNOUNCE" will blink for 3 seconds and then the unit searches for a traffic announcement.

- When a traffic programme is found, the TRAFFIC ANNOUNCE mode is switched to PROGRAM SERVICE mode.
  If the station currently selected is transmitting a traffic programme signal, the RDS mode will be switched to PROGRAM SERVICE mode without searching for a traffic programme.

The clock setting of this unit is automatically adjusted according to the CLOCK TIME (CT) data.
If you tune in an RDS station broadcasting incorrect CT data, the clock might be wrongly adjusted, and that may eventually affect the timer operation.
When you do not want the clock of this unit to be set according to the CT data, turn off the auto clock adjustment.

- No matter which RDS mode is selected, the unit receives CT data and adjusts the clock.

To turn off the auto clock adjustment, hold down the RDS button for more than 8 seconds.



- To turn on the auto clock adjustment again, hold down the RDS button for more than 8 seconds.
- When the auto clock adjustment is turned off, CLOCK TIME is not displayed.

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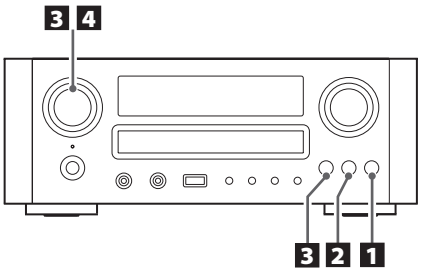
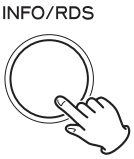
PTY Search



You can search for stations by programme type.

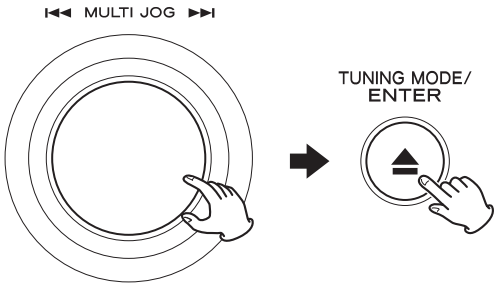
1 Select FM by pressing the BAND button repeatedly.

2 Hold down the RDS button for more than 3 seconds.



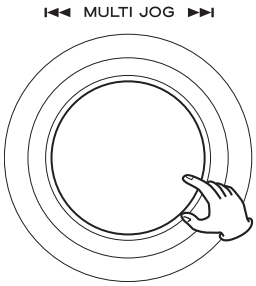
3 Select the desired programme type (PTY).

Turn the MULTI JOG knob to select an item, and then press the ENTER button.



Select your desired one from among 31 kinds of PTY programmes.
The programme type will blink.

4 Turn the MULTI JOG knob within 3 seconds to start searching.



- When the broadcast whose programme type you have selected is found, searching stops and the programme type will be displayed.
- If a broadcast of the selected programme type is not found during PTY Search, it will stop at the very first frequency.
- To stop searching, press the RDS button.

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News:
brief announcements, events, public opinion, reports, actual situations.

Current Affairs:
a kind of suggestion including practical announcements other than news, documents, discussion, analysis and so on.

Information:
daily information or reference such as weather forecast, consumer guide, medical assistance and so on.

Sport:
sports related programmes.

Education:
educational and cultural information.

Drama:
all kinds of radio concert and serial drama.

Cultures:
all aspects of national or local culture including religious events, philosophy, social science, language, theatre, and so on.

Science:
programmes on natural science and technology.

Varied Speech:
popular programmes such as quiz, entertainment, private interview, comedy, satire and so on.

Pop Music:
programme on commercial, practical and popular songs, and sale volume of discs, etc.

Rock Music:
practical modern music generally composed and played by young musicians.

Easy Listening:
popular music usually lasting for less than 5 minutes.

Light Classics M:
classical music, instrumental music, chorus, and light music favoured by non-professionals.

Serious Classics:
orchestra including great operas, symphony, chamber music and so on.

Other Music:
other music styles (Rhythm & Blues, Reggae, etc.).

Weather & Meter:
weather reports, forecast.

Finance:
financial reports, commerce, trading.

Children's Progs:
children's programmes.

Social Affairs:
social affairs.

Religion:
religious programmes.

Phone In:
programme in which the public expresses its view by phone.

Travel & Touring:
travel reports.

Leisure & Hobby:
programmes concerning recreational activities.

Jazz Music:
jazz music.

Country Music:
country music.

National Music:
national music.

Oldies Music:
music from the so-called golden age of popular music.

Folk Music:
folk music.

Documentary:
documentaries.

Alarm Test

Alarm-Alarm!:
a programme notifying an emergency or a natural disaster.

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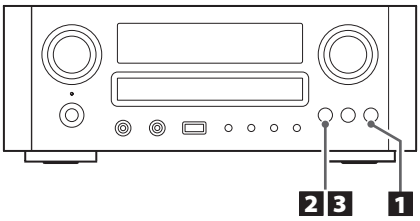
Internet Radio Initial Setup



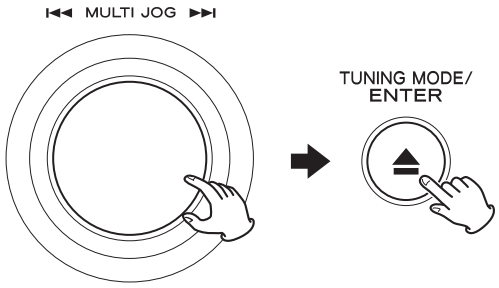
When you use the internet radio function for the first time, the unit starts an initial setup procedure to connect to the Internet.

1 Select "Internet radio" by pressing the BAND button repeatedly.

Initial setup wizard starts.

2 Select your country/area.

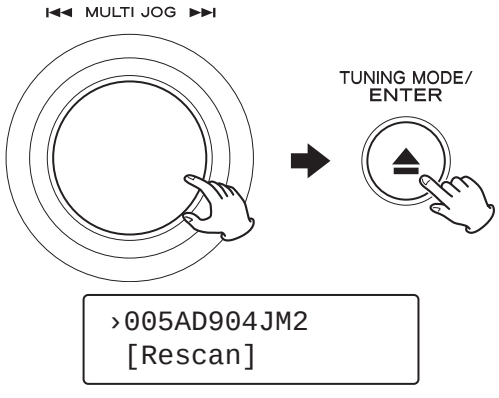
Turn the MULTI JOG knob to select the item, and then press the ENTER button.



- To go back to the previous screen, press the BACK button.

3 Select a network name you want to use.

Turn the MULTI JOG knob to select the item, and then press the ENTER button.



- To use a wired Internet connection, select "[Wired]".

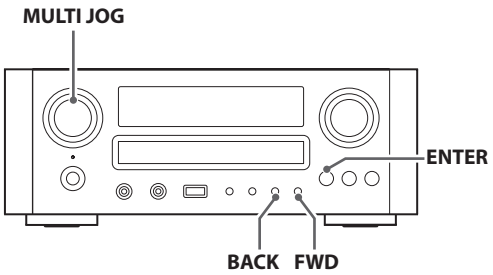
4 Enter the correct password for the network if required.

- See "How to input characters" below.

Now the unit starts to connect to the Internet.
When connection is established successfully, the internet radio menu is displayed. See the next page to select a station.

- If you have a problem connecting to the Internet, see page 53.

How to input characters



1. **Turn the MULTI JOG knob to select a set of characters.**
2. **Press the BACK button and the FWD button to select the character you want to input.**
3. **Press the ENTER button to input the selected letter.**

   Repeat steps 1 to 3 to input next characters.

<: Deletes the last character.
E: Enters your input.
C: Cancels the operation and goes back to the previous screen.

Characters you can input

0123456789
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
(space)!"#¤%&'()*+,-./:;<=>?@[\]–_||`{|}¯

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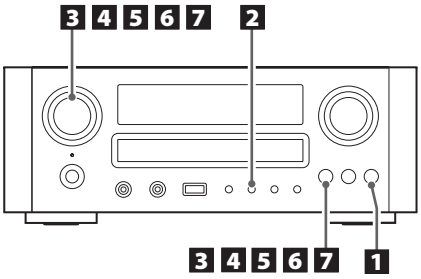
Listening to Internet Radio (1)

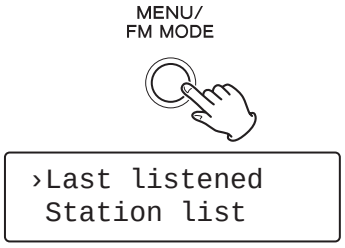


Listening to an internet radio station/ a podcast

1 Select "Internet radio" by pressing the BAND button repeatedly.

2 Open the internet radio menu.

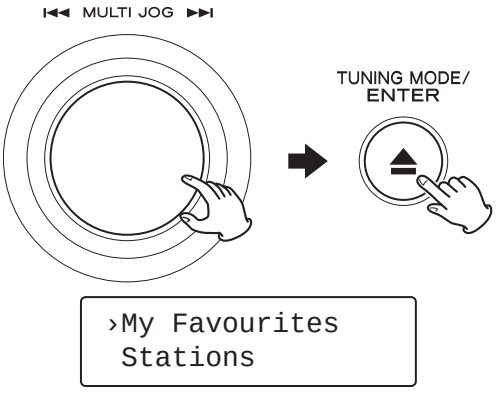
Press the MENU button.



The internet radio menu appears.

3 Select "Station list".

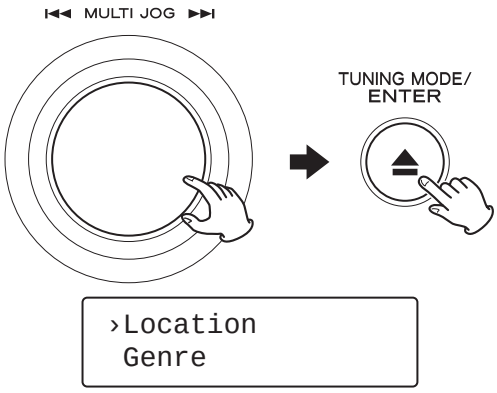
Turn the MULTI JOG knob to select the item, and then press the ENTER button.



- To go back to the previous screen, press the BACK button.

4 Select "Stations" for internet radio stations, or "Podcasts" for Podcasts.

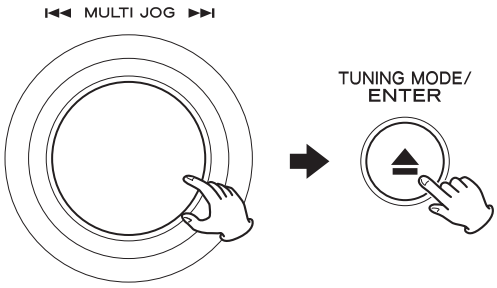
Turn the MULTI JOG knob to select the item, and then press the ENTER button.



A list of search methods appears.

5 Select a search method.

Turn the MULTI JOG knob to select the item, and then press the ENTER button.



Location:
Search by the location of the broadcaster.

Genre:
Search by the genre of music played on the station/ Podcast.

Search stations:
Search by the station's name.

Search podcasts:
Search by the Podcast's name.

Popular stations:
Select from a list of popular stations.

New stations:
Select from a list of recently added stations.

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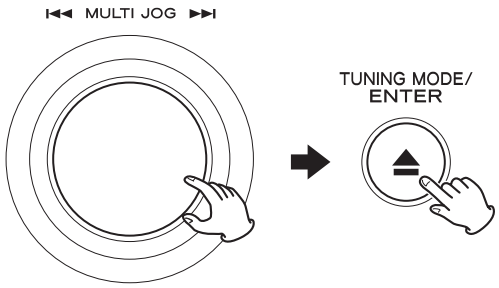
Listening to Internet Radio (2)

6 If you have selected "Location", "Genre" or "Search stations" in step 5, search for the channel you want.

Turn the MULTI JOG knob to select the item, and then press the ENTER button.



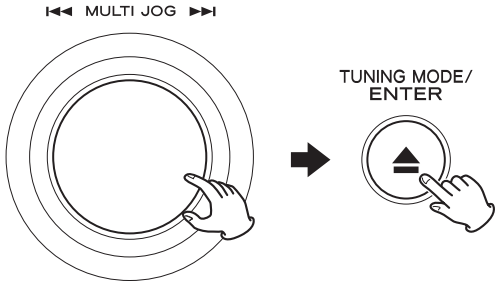
- For the operations of inputting characters, see "How to input characters" on page 36.

```
 Business News
›Celtic
```

A list of stations/Podcasts is displayed.

7 Select a station or a Podcast you want to listen to.

Turn the MULTI JOG knob to select the item, and then press the ENTER button.




```
Celtic Songs & D
Opening...
```

```
Celtic Songs & D
Buffering
```

```
Celtic Songs & D
Playing
```

Now you can listen to the station/Podcast.

Finding stations/Podcasts

The internet radio menu contains various ways of finding stations and Podcasts.

Last listened

You can select the station/Podcast from the ones you listened to recently.

Station list

My favourites

List of stations/Podcast you stored as favourite is displayed. Select a station/Podcast you want to listen to. Favourites are stored on the internet radio portal. See page 39.

Stations

List of internet radio stations is displayed.

Podcasts

List of Podcasts is displayed.

My Added Stations

Even though the station list contains thousands of stations, you may want to listen to stations not listed. You can add your own stations via the internet radio portal. See page 40.

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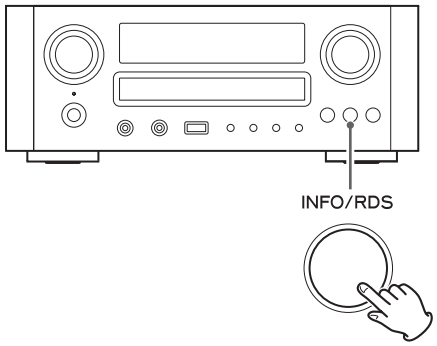
Changing the displayed information



Each time the INFO button is pressed, information on the second line of the display changes.

Internet radio:

Playing
↓
Signal strength (for wireless LAN)
↓
Format
↓
Reliability
↓
Description
↓
Genre
↓
Location

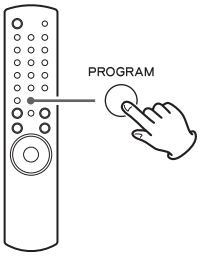
Podcast:

Playing
↓
Signal strength (for wireless LAN)
↓
URL
↓
Description
↓
Language
↓
City
↓
State
↓
Country
↓
Bookmark

- The types of information displayed may vary depending on the stations/Podcasts.

Storing the current station/Podcast as favourite

Press and hold the PROGRAM button until "Favourite Added" is displayed.



- Your favourite stations can be easily accessed from "My favourites" in "Station list".
- You can also add to your favourite stations using the internet radio portal. (See "Radio Portal" on the next page.)

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Internet radio portal

Access the radio portal on the Internet using your computer to fully enjoy the internet radio function of this unit.

- You can create a list of your favourite stations/ Podcasts on the portal. This list can be viewed from your unit, making it easier for you to find your usual programmes.
  You can see the list of your favourite stations in the internet radio menu as follows:
  Station list ➙ My favourites

- If the station/Podcast you want to listen to is not in the channel list, you can create your own list.
  You can see the list of your added stations in the internet radio menu as follows:
  Station list ➙ My Added Stations

Accessing the radio portal

1 Open your Internet browser and access http://www.wifiradio-frontier.com.

2 Click on the "Register" link to start registration.

3 Input your own access code and log in.

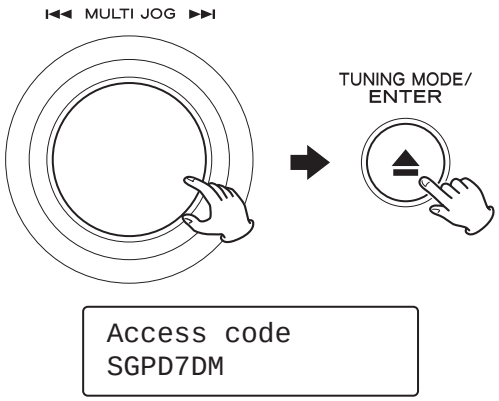
Checking the "access code" of your unit

Each unit of CR-H500NT has its own "access code". This code is required to log in the internet radio portal.

1 Select "Internet radio" by pressing the BAND button repeatedly.

2 Open the internet radio menu.
Press the MENU button.

3 Select "Station list", "Help", and then "Get access code".
Turn the MULTI JOG knob to select the item, and then press the ENTER button.
Repeat this operation until the menu you want appears.



The access code of your unit is displayed.

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Setting up Music Player (1)

About the Music Player function

Using the Music Player function, you can play back the music files in your computers through the LAN.
There are two ways of connecting to the computer: using media sharing and using file sharing.

Media sharing

Media sharing allows this unit to play back a shared media library on the computer, as well as browsing the tracks using tag items such as artist names, genres and album names.
You need a PC running on Windows XP or Windows Vista, and Windows Media Player 10 or later on it.

File sharing

To use file sharing method, you need to configure your music files open to access, so that other computers or CR-H500NT can read those files.
This method is available both on Windows and on Mac.

Preparations for Shared Media

1 Connect your computer to the LAN.

2 Connect the CR-H500NT to the LAN. (page 10)

- If you have a problem connecting to the LAN, see page 48.

3 If the files you want to share are not yet added to the media library of Windows Media Player, add them to the media library.

- Refer to the manual of Windows Media Player for details.

4 On Windows Media Player, open "Library", then "Media sharing".

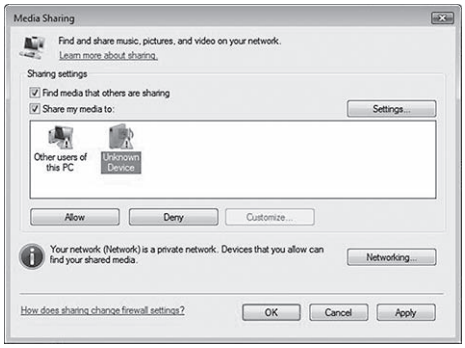
Media Sharing window opens.

5 Activate "Share my media to:".

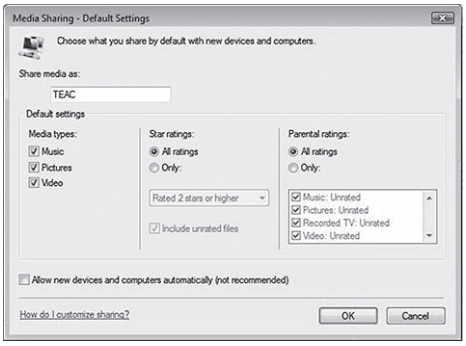
The CR-H500NT appears in the device list as "Unknown Device".

6 Select the "Unknown Device" and click "Allow".

The CR-H500NT can now access to the shared library.



7 Click on "Settings...", and configure detailed sharing settings.



- To listen to music files regardless of their rating, set "Star ratings" to "All ratings".
- Ensure that "Music" is checked under the "Media types" setting.

For the procedure of playback, see "Media Sharing". (page 45)

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Setting up Music Player (2)

Preparations for Shared Folders (Windows XP)

1 Check the name of the Domain or the "Workgroup" your computer belongs to.

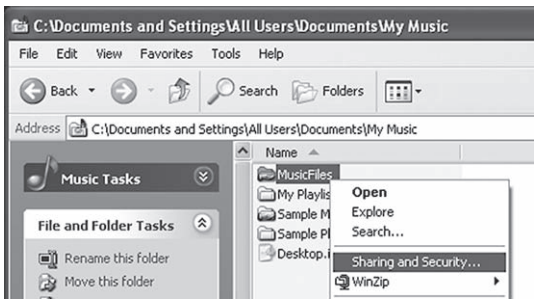
To enable Shared Folders, your computer needs to be a member of a Domain or a "Workgroup".
Usually, your computer belongs to a "Workgroup" by default. To see the name of the Domain or the "Workgroup" your computer belongs to, check the PC setting as follows:

Control Panel ➔ System ➔ Computer Name

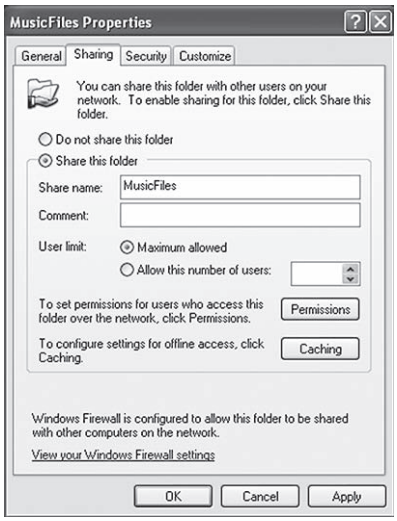
2 Check the user account name and its password.

To access the computer from CR-H500NT, you need the user account name and the password of the computer.

3 Right-click on the folder which contains the music files you want to share, and select "Sharing and Security".



4 In the "Sharing" tab, check "Share this folder".



Preparations for Shared Folders (Windows Vista)

1 Check the name of the Domain or the "Workgroup" your computer belongs to.

To enable Shared Folders, your computer needs to be a member of a Domain or a "Workgroup".
Usually, your computer belongs to a "Workgroup" by default. To see the name of the Domain or the "Workgroup" your computer belongs to, check the PC setting as follows:

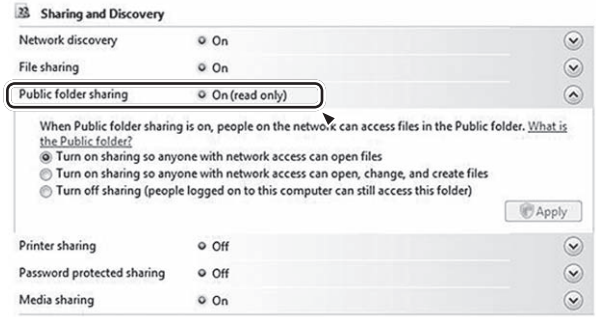
Control Panel ➔ System and Maintenance ➔ System

2 Check the user account name and its password.

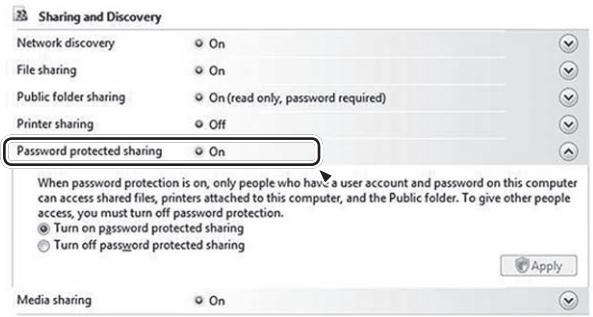
To access the computer from CR-H500NT, you need the user account name and the password of the computer.

3 Open "Control Panel", "Network and Internet", then "Network and Sharing Center".

4 Set "Public folder sharing" to "On (read only)".



5 Set "Password protected sharing" to "On".



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6 Copy the music files you want to enjoy on CR-H500NT into the "Public Music" folder in the "Public" folder.

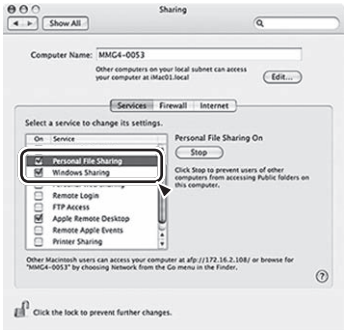
Preparations for Shared Folders (Mac OSX 10.2.1 to 10.4.11)

1 Check the user account name and its password.

To access the computer from CR-H500NT, you need the user account name and the password of the computer.

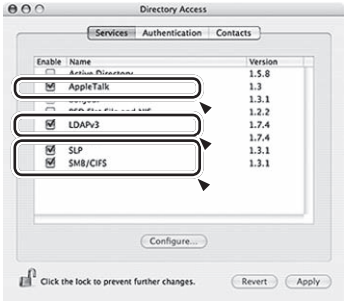
2 In "System Preferences", open "Sharing".

3 Activate "Personal File Sharing" and "Windows Sharing".

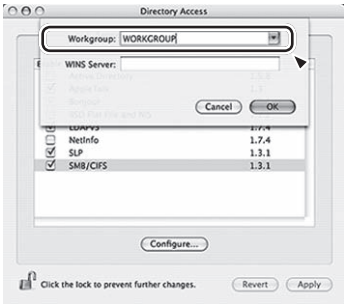


4 Open "Directory access" in the "Utitlities" folder in "Applications", and check that the following items are enabled in the "Services" tab.

- AppleTalk
- LDAPv3
- SLP
- SMB/CIFS



5 Select "SMB/CIFS", and click on "Configure...", and select an appropriate workgroup.



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Setting up Music Player (3)

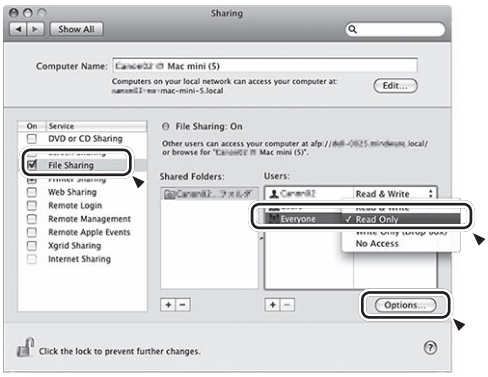
Preparations for Shared Folders (Mac OSX 10.5.0 or higher)

1 Check the user account name and its password.

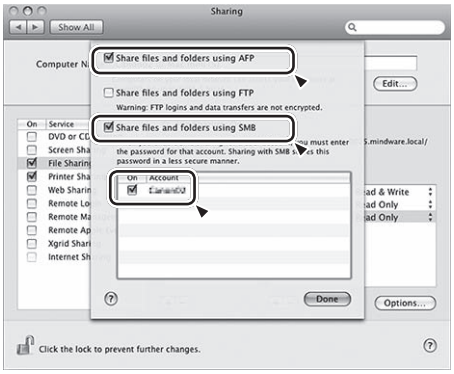
To access the computer from CR-H500NT, you need the user account name and the password of the computer.

2 In "System Preferences", open "Sharing".

3 Enable "File Sharing", and then select "Read Only" for "Everyone" in "Users" window. Then Click "Options...".



4 Activate "Share files and folders using AFP" and "Share files and folders using SMB". In the same window, activate "On" for the account you want to use for file sharing.



Preparation on the unit for Shared Folders (both Windows and Macintosh)

1 Connect your CR-H500NT to the LAN. (page 10)

- If you have a problem connecting to the LAN, see page 48.

2 Enter the user name and the password required to access the computer.

Enter the user name and the password following the menu as follows:

Setup → System setup → Internet setup → PC Setup → User Name / Password

For the procedure of playback, see "File Sharing". (page 46)

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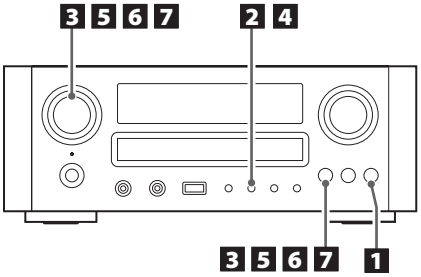
Listening to Music Player (1)

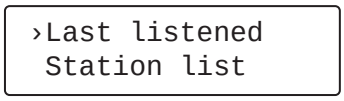
Media Sharing



1 Select "Internet radio" by pressing the BAND button repeatedly.

2 Open the internet radio menu.

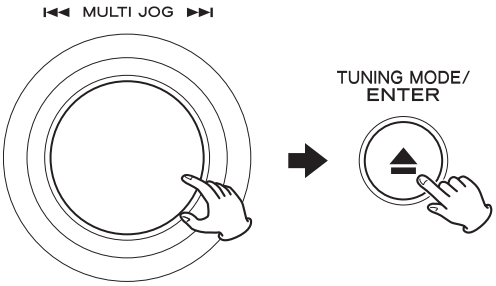
Press the MENU button.



The internet radio menu appears.

3 Select "Main Menu", then "Music Player".

Turn the MULTI JOG knob to select the item, and then press the ENTER button.

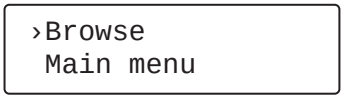


The Music Player function is activated.

- If you turn off the unit or change the source while playing back the Music Player, "Music Playback Mode" will be cancelled.

4 Open the Music Player menu.

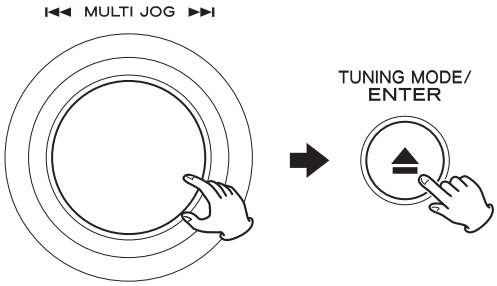
Press the MENU button.



The Music Player menu appears.

5 Select "Browse", then "Shared Media".

Turn the MULTI JOG knob to select the item, and then press the ENTER button.



A list of shared media library appears.

- To go back to the previous screen, press the BACK button.

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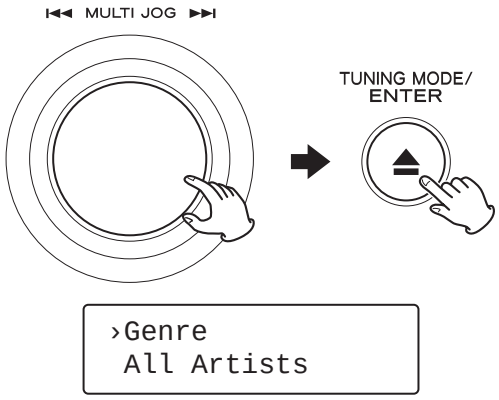
6 Select a media library you want to listen to.

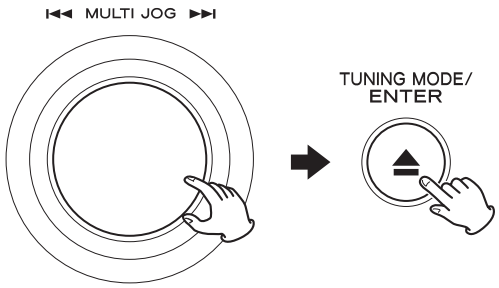
Turn the MULTI JOG knob to select the item, and then press the ENTER button.



The music index of the selected media library appears.

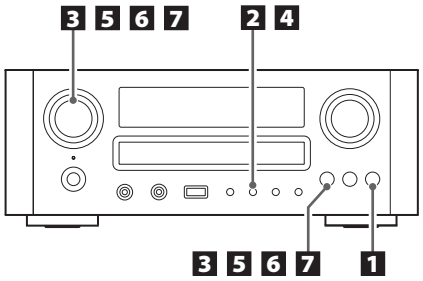
7 Select the track you want to listen to.

Turn the MULTI JOG knob to select the item, and then press the ENTER button.



Playback of the selected track starts.

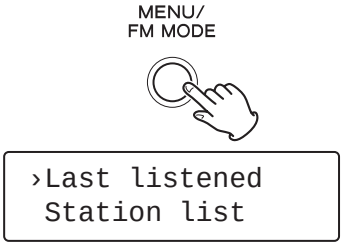
File Sharing



1 Select "Internet radio" by pressing the BAND button repeatedly.

2 Open the internet radio menu.

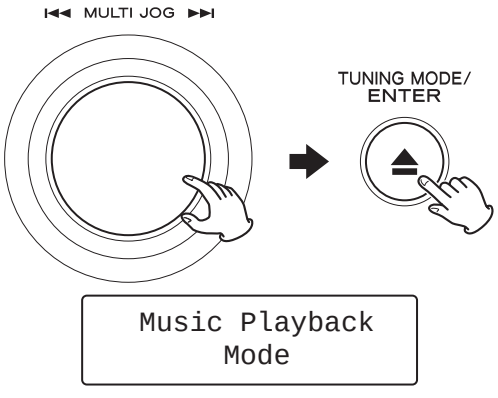
Press the MENU button.



The internet radio menu appears.

3 Select "Main Menu", then "Music Player".

Turn the MULTI JOG knob to select the item, and then press the ENTER button.



The Music Player function is activated.

- If you turn off the unit or change the source while playing back the Music Player, "Music Playback Mode" will be cancelled.

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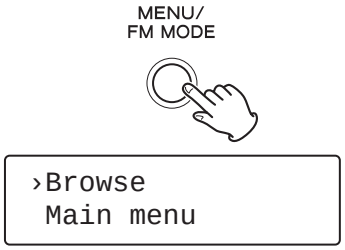
4 Open the Music Player menu.

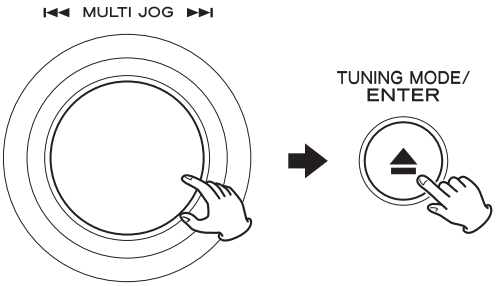
Press the MENU button.



The Music Player menu appears.

5 Select "Browse", then "Shared folder".

Turn the MULTI JOG knob to select the item, and then press the ENTER button.

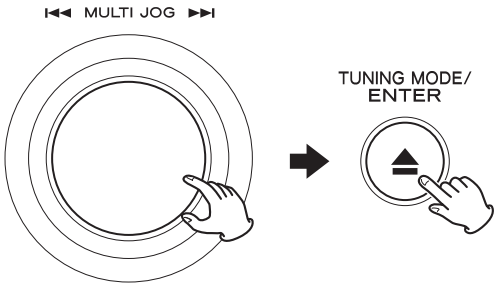


The names of connected Domains and Workgroups appear.

- To go back to the previous screen, press the BACK button.

6 Select the Domain or the Workgroup your computer belongs to, then select your computer.

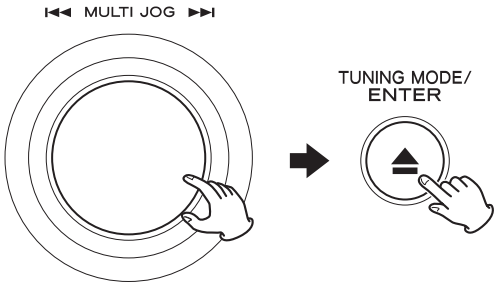
Turn the MULTI JOG knob to select the item, and then press the ENTER button.



A list of shared folders on the selected computer appears.

7 Select the file you want to listen to.

Turn the MULTI JOG knob to select the item, and then press the ENTER button.



Playback of the selected track starts.

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Network Configuration

Software update

The software of the unit can be updated via the Internet connection, so that you are able to use the latest features of the unit. Regularly check for updates.

1 Select "Internet radio" by pressing the BAND button repeatedly.

2 Open the internet radio menu.

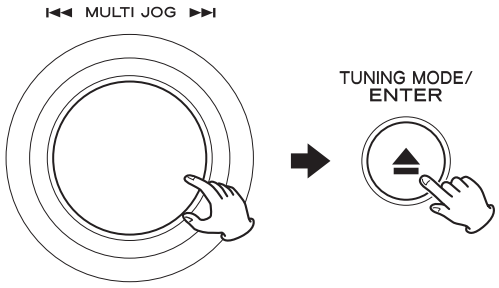
Press the MENU button.

```
›Last listened
 Station list
```

3 Select "Main Menu", "System setup", and then "Software update".

Turn the MULTI JOG knob to select the item, and then press the ENTER button.

Repeat this operation until the menu you want appears.




```
 Internet setup
›Software update
```

If an update is available, the unit automatically starts download and installation of the new software.

- You can check the current software version of your unit using the internet radio menu. Follow the menu items as follows:
  "Main Menu" ➝ "Info" ➝ "SW version"

Performing the setup wizard

If you have moved or modified your network environment, or if you have a problem connecting to the Internet, perform the initial setup wizard to establish the Internet connection again.

Follow the menu items as follows:

"Main Menu" ➝ "System setup" ➝ "Internet setup" ➝ "Wizard"

Setting the wireless network

If you are using a wireless network for the unit and you have moved to a new location, change the area setting so that network connection is established properly.

Follow the menu items as follows:

"Main Menu" ➝ "System setup" ➝ "Internet setup" ➝ "Wlan region"

Manual Internet setup

You can check and modify detailed settings of the Internet connection.

Follow the menu items as follows:

To check the current network settings

"Main Menu" ➝ "System setup" ➝ "Internet setup" ➝ "View settings"

To configure settings

"Main Menu" ➝ "System setup" ➝ "Internet setup" ➝ "Manual settings"

To delete a network profile

"Main Menu" ➝ "System setup" ➝ "Internet setup" ➝ "Network profile"

To check the Radio ID of your unit

The Radio ID may be required when you contact our customer support.

Follow the menu items as follows:

"Main Menu" ➝ "Info" ➝ "Radio ID"

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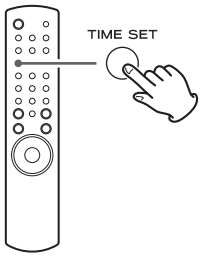
Setting the Clock

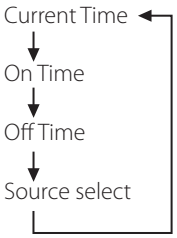
When you adjust the clock manually, follow the following steps.

- The clock setting of this unit is automatically adjusted according to the CLOCK TIME data of an RDS broadcasting.

1 Press the TIME SET button.

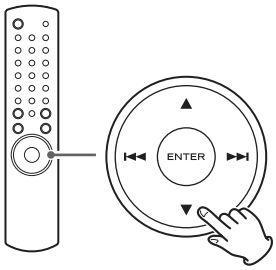


Each time the TIME SET button is pressed, the mode is changed as follows.

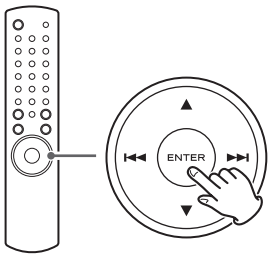


- For Europe, the unit uses the 24-hour "military" clock. For North America, the unit uses the 12-hour clock.
- When no action is taken for 1 minute, the time adjust mode will be cancelled.
- Press the stop button (■) to cancel the time setting.

2 Press the scroll buttons (▲/▼) to set the current hour.

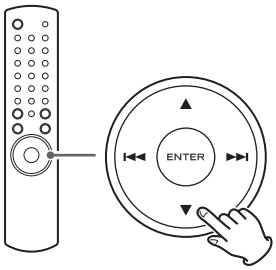


3 Press the ENTER button.

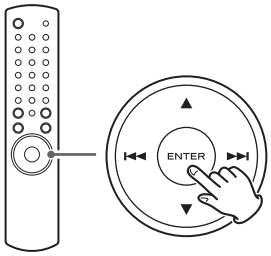


The "minute" value blinks.

4 Press the scroll buttons (▲/▼) to set the current minute.



5 Press the ENTER button.



The clock starts from 00 seconds.

- The clock setting will not be saved when the AC power cord is pulled out.

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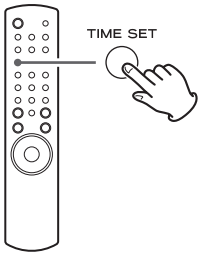
Setting the Timer

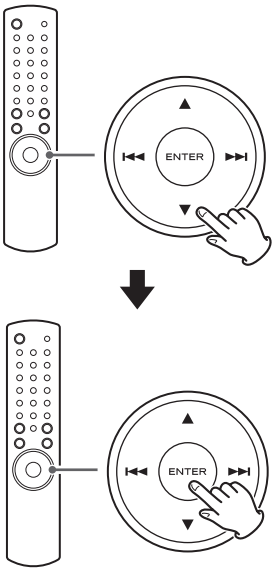
- Adjust the clock before setting the timer.
- Select "Direct mode" before using the iPod for the timer; otherwise, the iPod will not be played back when the On time is reached. See page 29.
- When no action is taken for 1 minute, the timer setting mode will be cancelled.

1 Press the TIME SET button repeatedly until "On time" is displayed.



"On time" appears on the display, and the "hour" value blinks.

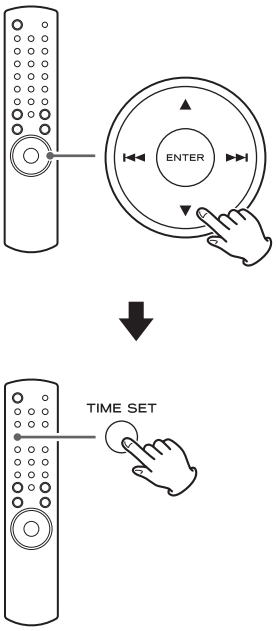
2 Press the scroll buttons (▲/▼) to set the hour value, and press the ENTER button.



The "minute" value blinks.

3 Press the scroll buttons (▲/▼) to set the minute value, and press the TIME SET button.

"Off time" appears on the display, and the "hour" value blinks.



4 Repeat step 2 and 3 to set the Off time.

"Source select" appears on the display.

5 Press the scroll buttons (▲/▼) to select the source, and press the ENTER button.

Now the timer setting is stored in memory.

- When you use iPod touch as the source for the timer, do not turn it off. It will not be turned on when the On time is reached.

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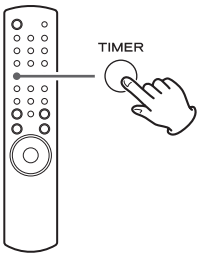
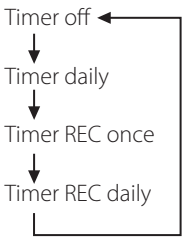
Timer Operation

Every time you press the TIMER button on the remote control unit, the timer mode changes as follows.





Timer Playback

1 Select "Timer daily" by pressing the TIMER button on the remote control unit.

The timer indicator "" lights on the display.

2 Prepare for the timer playback.

Adjust the volume, tune in a station, etc.

3 Press the STANDBY/ON button to put the unit in standby mode.

Everyday when the On time is reached, the unit will turn on and start playback, and when the Off time is reached the unit will return to standby.

Timer Recording

You can set the various external USB storage devices such as USB flash memory to record programme at the desired time.

Connect the external USB storage device to the unit beforehand.

1 Select "Timer REC once" or "Timer REC daily" by pressing the TIMER button on the remote control unit.

The timer indicator "" and "" light on the display.

2 Prepare for the timer recording.

Tune in a station, etc.

3 Press the STANDBY/ON button to put the unit in standby mode.

One minute before the set On time, the unit turns on and starts recording at the On time.

When the Off time is reached the unit will return to standby.

Timer off

When not using the timer, press the TIMER button on the remote control unit to select "Timer off".

The timer indicator "" disappears from the display.

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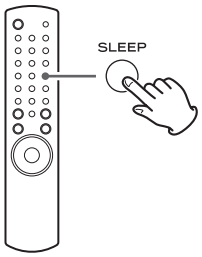
Sleep Timer



The power can be switched off after a specified amount of time.
Press the SLEEP button repeatedly until desired time appears on the display.

SLEEP-90 (80, 70 ... 10)
The power will be switched off 90 (80, 70 ... 10) minutes later.

SLEEP OFF
The sleep timer is off.

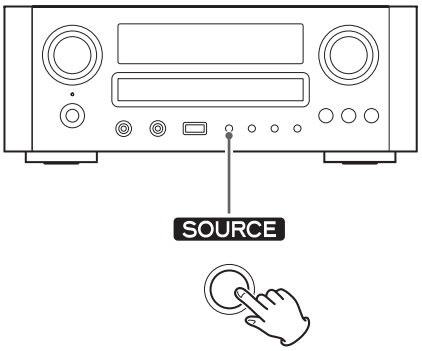
- The display is dimmed when you set the sleep timer.
- If you want to check the remaining time, press the SLEEP button once. The remaining time will be displayed for 3 seconds, and return to the normal display.

Using an External Component

Listening to the Sound from the External Component

You can listen to the sound from the external component connected to the PHONO, AUX 1 IN, or AUX 2 IN jacks.

1 Press the SOURCE button to select "PHONO", "AUX 1" or "AUX 2".

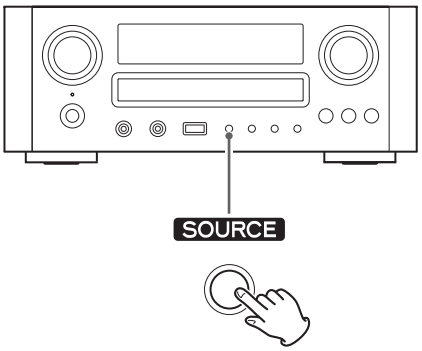


2 Start playback on the external component.

Recording the Sound from the CR-H500DNT on the Recorder

You can record the sound from the CR-H500NT on the recorder connected to the AUX 1 OUT jacks (see page 10).

1 Press the SOURCE button on the CR-H500NT to select the source to record.



2 Start recording on the recorder.

- Also start playback on the CR-H500NT when "CD", "USB" or "iPod" is selected as the source.
- The sound from the AUX 1 IN jacks cannot be recorded.

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Troubleshooting (1)

In case of trouble with the unit, please take the time to look through this chart and see if you can solve the problem yourself before you call your dealer or TEAC service center.

Amplifier

No power.
➔ Check the connection to the AC power supply.

No sound from speakers.
➔ Check the connection to the speakers.
➔ Adjust the volume.
➔ Select proper source.
➔ Pull out the headphones plug from PHONES jack.
➔ If muting is on, press the MUTING button.

The sound is noisy.
➔ The unit is too close to a TV set or similar appliances. Install the unit apart from them, or turn them off.

Clock goes wrong.
➔ The clock setting will not be saved when the unit is turned off by unplugging the power cord. Do not turn off the unit by unplugging the power cord.

Remote Control Unit

Remote control unit does not work.
➔ If the batteries are exhausted, change the batteries.
➔ Use remote control unit within the range (5 m) and point at the front panel.
➔ Clear obstacles between the remote control unit and the main unit.
➔ If a fluorescent light is near the unit, turn it off.

Tuner

Cannot listen to any station, or signal is too weak.
➔ Tune in the station properly.
➔ If a TV set is near the unit, turn it off.
➔ Install the antenna again after locating the best reception position.
➔ An external antenna is recommended.

Though the broadcast is stereo, it sounds monaural.
➔ Press the FM MODE button.

Internet radio

Cannot connect to the Internet.
➔ Check if your computer can connect to the Internet using the same network.
➔ Enter a correct pass key to the network.
➔ Check the settings of your network's firewall. The unit needs access to the following UDP and TCP ports as a minimum: 80, 554, 1755, 5000 and 7070.

Cannot listen to a station/Podcast.
➔ The broadcaster has a temporary trouble with Internet connection.
➔ Check if your Internet connection is not temporarily disconnected or disturbed.

Cannot find a station/Podcast in the station list.
➔ The station/Podcast may not be broadcast at the moment.
➔ The link of the station/Podcast may be out of date.
➔ The allowed number of simulataneous listeners of station/Podcast might have reached the maximum.
➔ The internet connection speed is too slow.
➔ Add the station/Podcast to your own station list by accessing the internet radio portal.

Music Player

Cannot connect to the LAN.
➔ Check the settings of your network's firewall. The unit needs access to the following UDP and TCP ports as a minimum: 80, 554, 1755, 5000 and 7070.
➔ Check if your computer can connect to the Internet using the same network.
➔ Enter a correct password to the network.
➔ Check if the computer is not shut down or in the sleep mode. Set up the computer not to shut down or turn into the sleep mode automatically.
➔ There may be a problem with the network authentication. Press the SOURCE button or BAND button to select the Music Player again.

Cannot find a track. (Shared Media)
➔ Add the track to the media library of Windows Media Player.
➔ Set your CR-H500NT as a "Unknown Device" in the device list of Windows. (page 41)
➔ Select "Allow" for CR-H500NT ("Unknown Device") (page 41).
➔ Check the file format. Playable formats are MP3 and WMA.
➔ If you have antivirus security software enabled on your computer, the unit may fail to connect.

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Cannot find a folder/file. (Shared Folders)

- ➜ Configure the folder/file sharing setting. (page 42 to 44)
- ➜ Add the file to the shared folder.
- ➜ Enter a correct password of the user account.
- ➜ Check the file format. Playable formats are MP3 and WMA.
- ➜ If you have antivirus security software enabled on your computer, the unit may fail to connect.

iPod Player

Will not play.

- ➜ Remove the iPod from the USB jack, wait a few seconds, and insert it again.
- ➜ Software update may solve the problem. Visit the Apple website and download the latest iPod software.

Cannot operate the iPod.

- ➜ Make sure the HOLD switch of the iPod is not set to HOLD.

MP3/WMA

There is no sound even if the play/pause button (►/II) is pressed.

- ➜ Check if there are MP3 or WMA files on the USB.
- ➜ Non-playable file formats (e.g MPEG 1 LAYER 2 file) cannot be played.

"No title", "No artist", and "No album" appears on the display.

- ➜ There is no ID3 tag information for the music file. Edit the title, artist, and album information of the song on a PC using the MP3 or WMA making application.

Some unknown characters are displayed on the display panel.

- ➜ This unit cannot display symbols and full-size or double-byte characters (such as Japanese, Chinese, etc.) correctly. File name of MP3 or WMA should be alphanumeric characters.

If normal operation cannot be recovered, unplug the power cord from the outlet and plug it again.

Maintenance

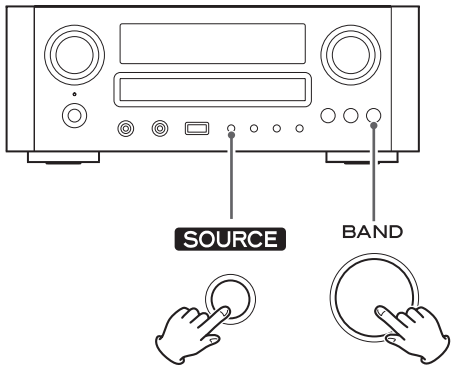
If the surface of the unit gets dirty, wipe with a soft cloth or use diluted neutral cleaning liquid. Be sure to remove any fluid completely. Do not use thinner, benzine or alcohol as they may damage the surface of the unit.

Restoring factory settings

If the power supply is interrupted for 14 days or longer, all the settings kept in memory (such as preset stations and timer settings) will be erased.

It will take more than 3 days after plugging the power cord into the outlet to charge enough electricity for the memory backup function.

If you want to manually initialize the settings, hold down the SOURCE button and play/pause button (►/II) for more than 4 seconds in standby mode.



The unit will be turned on, and all the settings are reset to the default settings.

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Specifications

AMPLIFIER Section

Output Power ..... 40 W/ch (6 ohms, 0.5 %,1 kHz)
Input Sensitivity..... PHONO: 2.5 mV 47 kΩ
AUX1, AUX2: 200 mV 47 kΩ
Frequency Response.... 20 Hz to 60,000 Hz (+1/–3 dB)

TUNER Section

FM Section

Tuning Range..... 87.50 MHz to 108.00 MHz
Signal-to-Noise Ratio .....65 dB (Mono)
60 dB (Stereo)

AM Section

Tuning Range
522 kHz to 1,629 kHz (European Model)
530 kHz to 1720 kHz (North American Model)
Signal-to-Noise Ratio.....35 dB

USB Section

Playback

Frequency Response..... 20 Hz to 20,000 Hz (±2 dB)
Signal-to-Noise Ratio..... more than 85 dB

Recording

Frequency Response..... 20 Hz to 15,000 Hz (±2 dB)
Signal-to-Noise Ratio.....more than 85 dB

Internet Radio

Format ..... MP3, WMA, RealAudio

Internet connection

LAN terminal..... 10 BASE-T
Wireless LAN..... IEEE 802.11b/g
Security ..... WEP, WPA, WPA2

GENERAL

Power Requirements
230 V AC, 50 Hz (European Model)
120 V AC, 60 Hz (North American Model)
Power Consumption ..... 90 W
0.5 W (standby)
Dimension (W x H x D) ..... 290 x 115 x 385 mm
(11-7/16 x 4-9/16 x 15-3/16 inch)
Weight ..... 5.6 kg
(12.4 lbs)

Standard Accessories

Remote Control Unit (RC-1225) x 1
Batteries (AAA) x 2
AM Loop Antenna x 1
FM Lead-type Antenna x 1
Owner's Manual x 1
Warranty Card x 1

- Design and specifications are subject to change without notice.
- Weight and dimensions are approximate.
- Illustrations may differ slightly from production models.

Information for Users on Collection and Disposal of Old Equipment and used Batteries

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Information on Disposal in other Countries outside the European Union

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom right two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

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TEAC

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TEAC UK LIMITED	Suites 19 & 20, Building 6, Croxley Green Business Park, Hatters Lane, Watford, Hertfordshire, WD18 8TE, U.K. Phone: (0845) 130-2511
TEAC EUROPE GmbH	Bahnstraße 12, D-65205 Wiesbaden-Erbenheim, Deutschland Phone: 0611-71580

This appliance has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records.

Model number Serial number

0909· XX-XXXXA

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