

M-515 INSTRUCTION MANUAL

Read Safety instructions and others carefully before using the System.



Radio Data System

0910YOMMDWDAT

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.

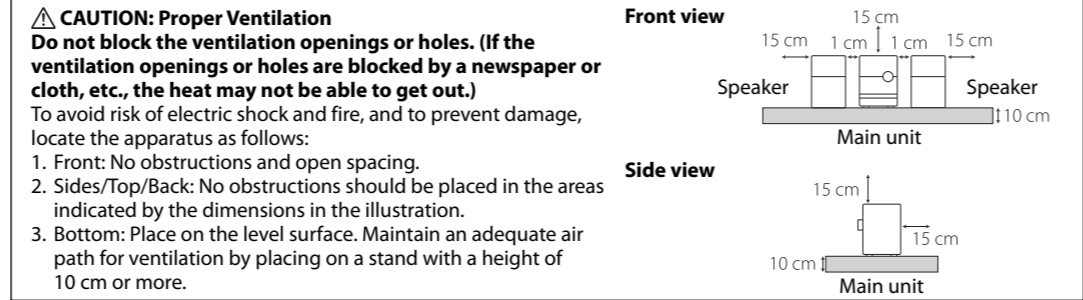
THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.

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.

Declaration of Conformity with regard to the EMC Directive 2004/108/EC

Manufacturer:
Kenwood Corporation
2967-3 Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan

EU Representative's:
Kenwood Electronics Europe BV
Amsterdamseweg 37, 1422 AC UITHOORN,
The Netherlands



Maintenance

To get the best performance of the System, keep your discs and the mechanism clean.

- Handling discs**
- Remove the disc from its case by holding it at the edge while pressing the center hole lightly.
 - Do not touch the shiny surface of the disc, or bend the disc.
 - Put the disc back in its case after use.
 - Be careful not to scratch the surface of the disc when placing it back in its case.
 - Avoid exposure to direct sunlight, temperature extremes, and moisture.

To clean the disc:
Wipe the disc with a soft cloth in a straight line from center to edge.

- Cleaning the System**
- Stains should be wiped off with a soft cloth. If the System is heavily stained, wipe it with a cloth soaked in water-diluted neutral detergent and wrung well, then wipe clean with a dry cloth.
 - Since the System may deteriorate in quality, become damaged or get its paint peeled off, be careful about the following:
 - DO NOT wipe it hard.
 - DO NOT wipe it with thinner or benzene.
 - DO NOT apply any volatile substances such as insecticides to it.
 - DO NOT allow any rubber or plastic to remain in contact for a long time.

Specifications

- Main unit**
- General**
- Power source: AC 230 V ~, 50 Hz (For European models)
AC 240 V ~, 50 Hz (For Australian models)
 - Power consumption at operation: 22 W
 - Power consumption in standby mode: 1 W or less
 - Dimensions (W x H x D) [including projecting parts]: 165 mm x 250 mm x 229 mm
 - Weight (approx.): 2.3 kg
- Audio output**
- Speakers x 2
 - Output power (IEC 268-3): 20 W + 20 W at 6 Ω (10% THD)
 - Fitting impedance: 6 Ω - 16 Ω
- Audio input**
- Receiving input: AUDIO IN x 1
 - NORMAL: 500 mV/47 kΩ
 - HIGH: 250 mV/47 kΩ
 - iPod x 1: DC 5 V = 500 mA
 - Video out: Composite
 - USB: Compatible with USB 2.0 Full-Speed
 - Compatible device: USB mass storage class device
 - Compatible file system: FAT16, FAT32
 - Output power: DC 5 V = 500 mA
- Tuner**
- FM tuner: Receiving frequency: 87.50 MHz to 108.00 MHz
 - Antenna: 75 Ω - unbalanced type

- Speaker**
- Type: Bass-reflex type
 - Speaker: Full range: 10 cm
 - Power handling capacity: 20 W
 - Impedance: 6 Ω
 - Dimensions (W x H x D) [including projecting parts]: 140 mm x 250 mm x 135 mm
 - Weight (approx.) (1 speaker): 1.3 kg

Supplied accessories
See "Supplied accessories" in "Getting started."

Design and specifications are subject to change without notice.

Troubleshooting

If you are having a problem with your System, check this list for a possible solution before calling for service.

General	
Power does not come on.	➔ Power plug is not inserted securely. Plug it in securely.
Adjustments or settings are suddenly canceled before you finish.	➔ There is a time limit. Start the procedure again.
Unable to operate the System from the remote control.	➔ The path between the remote control and the remote sensor on the System is blocked. ➔ The battery is exhausted.
No sound is heard.	➔ Speaker connections are incorrect or loose. ➔ Headphones are connected. ➔ Set the volume control to proper sound level.
FM radio	
Hard to listen to broadcasts because of noise.	➔ Antenna connection is incorrect or loose. ➔ The FM antenna is not properly extended and positioned. ➔ Electrostatic discharge from your body may cause noise. If this happens, turn the System off then on again.
iPod	
The iPod does not play, but "CONNECT" appears on the display.	➔ The iPod battery is low or exhausted. Charge the iPod battery.
"PLEASE IPOD CHECK" appears on the display.	➔ The iPod is not connected properly.
Disc/USB	
The disc/USB mass storage class device does not play.	➔ The disc is placed upside down. Place the disc with the label side facing up. ➔ The disc is recorded using "packet writing (UDF file system)." It cannot be played. ➔ The USB mass storage class device is not connected properly.
"NO FILE" appears on the display.	➔ MP3/WMA files are not recorded on the disc or USB mass storage class device.
Groups and tracks are not played back as you expect.	➔ Playing order is determined when the groups and tracks are recorded. It depends on the writing application.
The disc/USB mass storage class device sound is discontinuous.	➔ The disc is scratched or dirty. ➔ MP3/WMA files have not been properly recorded onto the USB mass storage class device.
Sound from the USB mass storage class device is interrupted.	➔ Noise and static electricity may stop the sound. In this case, disconnect and connect the USB mass storage class device again after turning off the System.
The disc tray does not open or close.	➔ The AC power cord is not plugged in. ➔ Disc ejection is prohibited. "LOCKED" appears (see "Prohibiting disc ejection" in "Disc/USB").
Timers	
Daily Timer does not work.	➔ The System was turned on when the on-time came. The timer starts working only when the System is turned off. ➔ When you unplug the AC power cord or if a power failure occurs, the timer will be canceled. You need to set the clock first, then the timer again. (See "Setting the clock" in "Initial settings" and "Daily Timer" in "Timers" on the right.)

- If the System does not work correctly, disconnect the AC power cord from the wall outlet, wait for a while, then connect the cord again.
- Kenwood corporation bears no responsibility for any loss of data in USB mass storage class device or iPod while using this System.

Getting started

- Supplied accessories**
- After unpacking, check to make sure that you have all the following items:
- Remote control: RC-F0515E (x 1)
 - Lithium coin battery CR2025 (x 1)
 - The battery has been installed in the remote control when shipped from the factory.
 - FM antenna (x 1)
- If anything is missing, consult your dealer immediately.

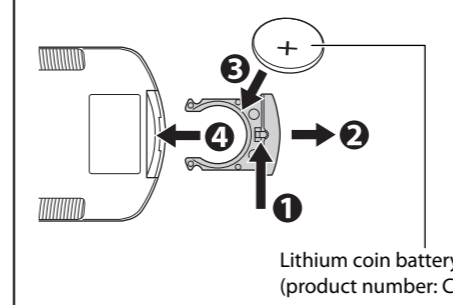
In this manual...

- The remote control buttons are used for explaining the operations unless mentioned otherwise. However, if the System has the same or similar button names, they can also be used for the operations.
- "File" and "track" are used interchangeably.

Prepare the remote control

When you use the remote control for the first time, pull out the insulation sheet.

To replace the battery in the remote control



CAUTION

- Store the battery in a place where children cannot reach. If a child accidentally swallows the battery, consult a doctor immediately.
- To prevent the battery from overheating, cracking, or starting a fire:
 - Do not recharge, short, disassemble or heat the battery or dispose of it in a fire.
 - Do not leave the battery with other metallic materials.
 - Wrap the battery with tape and insulate when throwing away or saving it.
 - Do not poke the battery with tweezers or similar tools.
- Dispose of battery in the proper manner, according to federal, state, and local regulations.
- The battery (battery pack or battery installed) shall not be exposed to excessive heat source such as sunshine, fire or the like.

CAUTION for lithium battery

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

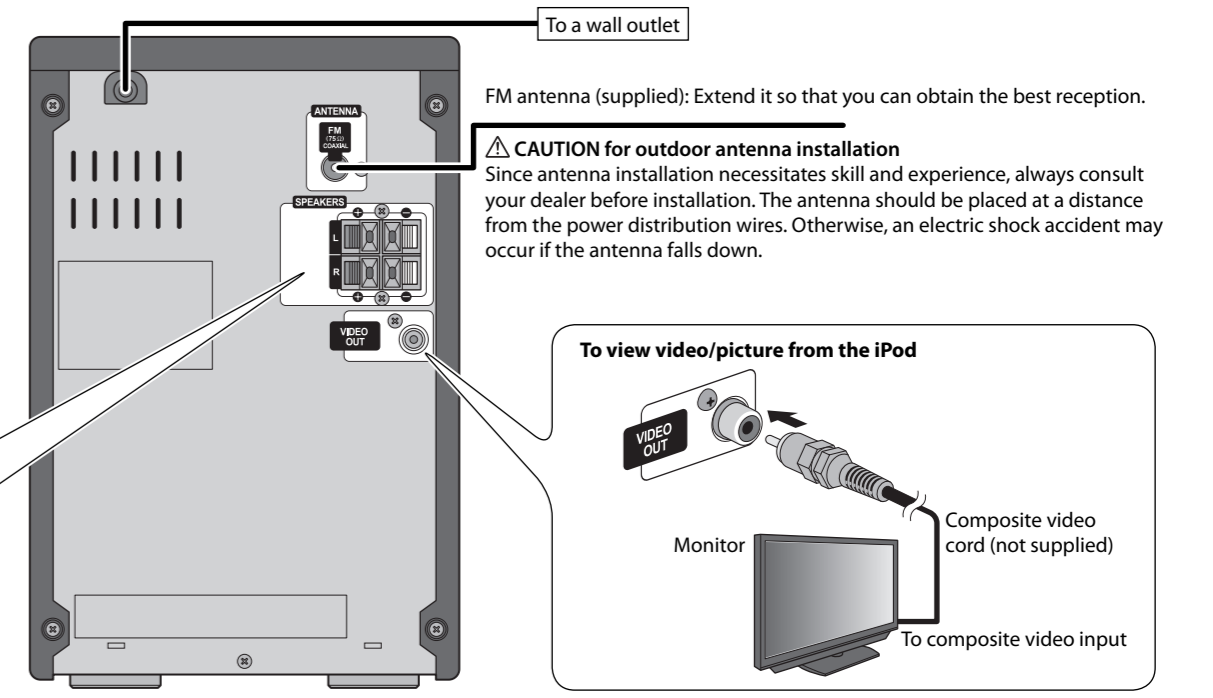
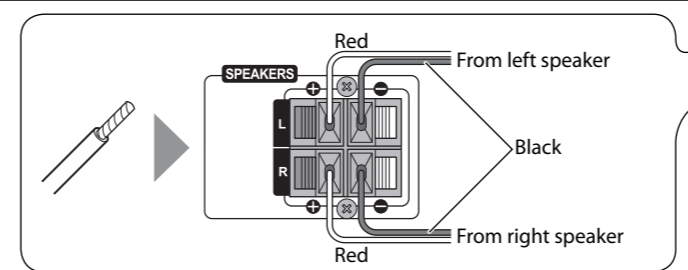
Connections

Do not connect the AC power cord until all other connections have been made.

NOTES:

- Make sure the antenna conductors do not touch any other terminals, connecting cords or the power cord. Also, keep the antenna away from metallic parts of the System, connecting cords, and the AC power cord. Otherwise, it could cause poor reception.
- When connecting the speaker cords, match the polarities of the speaker terminals: red to (+) and black to (-).
- DO NOT connect more than one speaker to each terminal.
- Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the System.
- DO NOT allow the conductor of the speaker cords to come into contact with the metallic parts of the System.
- The supplied speakers are not magnetically shielded. Keep enough distance between the speakers and a TV, otherwise the color on the TV screen could be affected.

Do not unplug the AC power cord before turning off the System. Some of the settings you have made will be lost if you do so.

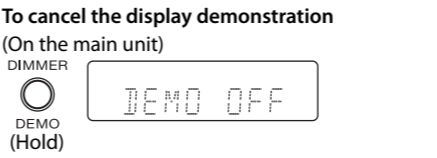


Sound and other adjustments

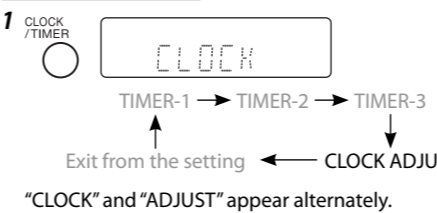
Initial settings

Canceling the display demonstration

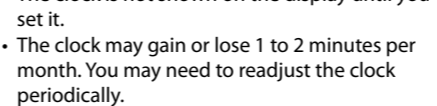
When you plug in and turn on the System, the display demonstration starts automatically if no operation is done for about 2 minutes.



Setting the clock



Sound adjustments



Hyper Bass Sound (HBS)

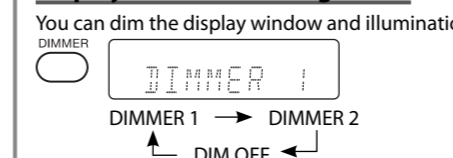


Bass and treble levels

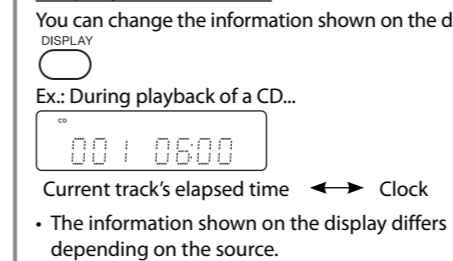


Display settings

Display/illumination brightness

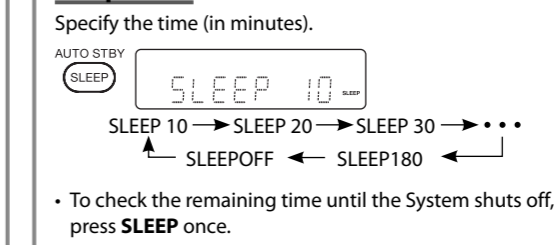


Display information

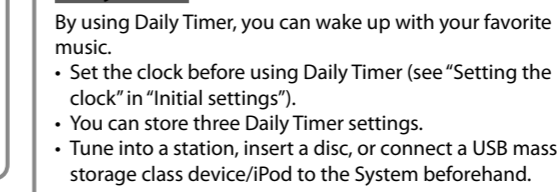


Timers

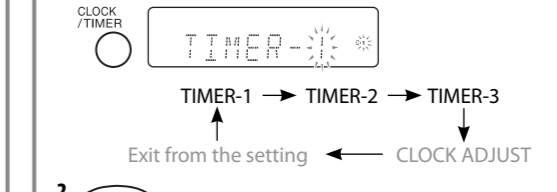
Sleep Timer



Daily Timer



Auto Standby



Compatible iPod models

iPod model	Audio	Video
iPod nano (5th Generation)	✓	✓
iPod nano (4th Generation)	✓	✓
iPod nano (3rd Generation)	✓	✓
iPod nano (2nd Generation)	✓	-
iPod nano (1st Generation)	✓	-
iPod touch (3rd Generation)	✓	✓
iPod touch (2nd Generation)	✓	✓
iPod touch (1st Generation)	✓	✓
iPod classic	✓	✓
iPod video (5th Generation)	✓	✓
iPod photo (4th Generation)	✓	✓*
iPod (4th Generation)	✓	-
iPod mini (2nd Generation)	✓	-
iPod mini (1st Generation)	✓	-
iPhone 3GS	✓	✓
iPhone 3G	✓	✓

* Only for still picture
If iPod does not play correctly, update iPod software to the latest version.

Playable disc/file types

- This System can play back...
 - Audio CD and CD-R/CD-RW in Audio CD format
 - MP3/WMA files on a CD-R/CD-RW (ISO 9660 format) or USB mass storage class device (maximum data transfer rate: 2 Mbps)
- This System cannot play "packet write" discs.
- This System can recognize up to 99 groups and 999 tracks on a disc and USB mass storage class device.
- For MP3/WMA playback...
 - Some MP3/WMA files may not be played back due to their recording conditions.
 - Files created with the following functions provided with Windows Media™ Player 9 or after cannot be played back:
 - WMA Professional
 - WMA Lossless
 - WMA Voice
 - This System can play only discs of ISO 9660 Level 1 or Level 2.
 - This System can play back MP3/WMA recorded at the following sampling frequency and bitrate.

MP3	Sampling frequency:	32/44.1/48 kHz
Bitrate:	32 kbps - 320 kbps (VBR*)	

WMA	Sampling frequency:	32/44.1/48 kHz
Bitrate:	48 kbps - 192 kbps (VBR*)	
- *Audio files encoded in VBR (Variable Bitrate) may contain data outside the compatible bitrate of this system. Such audio files containing incompatible bitrates cannot be played back.
- It is recommended to record each file at a sampling rate of 44.1 kHz and at a bitrate of 128 kbps.
- This System can show the Tag data.
- For playback of files on a USB mass storage class device...
 - You cannot play back files larger than 2 GB.
 - This System may not play back some USB mass storage class devices and does not support DRM (Digital Rights Management).

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.
- "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, 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. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

Basic operation



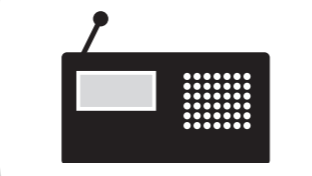
- 1 Turn on and off the power.
- 2 Select a source.
- 3 Adjust the volume.



The HP indicator lights up when headphones are connected to the System.
 • Be sure to turn down the volume before connecting or putting on the headphones.

DO NOT turn off the System with the volume set to an extremely high level; otherwise, the sudden blast of sound may damage your hearing, speakers, and headphones when you turn on the System or start playback.

FM radio



Searching for stations

- 1 TUNER (AUDIO IN) TUNER FM TUNER FM ↔ AUDIO IN
- 2 (Hold) (Hold)

The station search stops when a station of sufficient signal strength is found.
 • To manually stop the search, press ► or ◀.

- When you press ► or ◀ repeatedly, the frequency changes step by step.
- When an FM program is broadcast in stereo, the S (stereo) indicator lights up.

Improving the reception

To improve the reception

TUNER MODE MONO ↔ STEREO

- When the monaural mode is activated, the stereo effect is lost.

Presetting stations

You can preset up to 30 FM stations.

While listening to a target station...

- 1 SET
- 2 Select a preset number.
- 3 SET

To erase a preset station

- 1 Tune in to a preset station (see below).
- 2 MENCANCEL
- 3 SET

Receiving FM stations with Radio Data System

Radio Data System allows FM stations to send an additional signal along with their regular program signals.

- If you want to know more about Radio Data System, visit <http://www.rds.org.uk>.

To display the Radio Data System information

PS (NO PS*) → PTY (NO PTY*) → RT (NO RT*)

* Displayed if related signals are not sent by a station.

PS (Program Service)	Commonly known station names.
PTY (Program Type)	Types of broadcast programs.
RT (Radio Text)	Text messages the station sends.

PTY search

You can search for a program from the preset stations by specifying PTY code.

While listening to a station...

- 1 PTY SEARCH
- 2 Select a PTY code.
- 3 Start searching.

When the System finds the one you have selected, that station is tuned in.

- To stop searching, press PTY SEARCH.
- To search for another station, press PTY SEARCH while the indications are flashing.
- If no program is found, "NOTFOUND" appears.

iPod/iPhone



Notes on iPod connection

- When detaching the dock adaptor from the dock, pull up the dock adaptor with your fingernail or sharp pointed tool using the slot.
- Be careful not to injure your fingertips or damage the terminal of the direct dock.
- DO NOT connect or disconnect the iPod when the System is turned on.
- Be sure to reduce the volume on the System to the minimum level before connecting iPod. Adjust the volume after starting playback.
- You cannot send any data to the iPod from the System.
- Do not carry the System with iPod connected. It might cause damage to the dock or you might drop the iPod.
- Do not touch or hit the iPod terminal pins or connector pins in the dock for iPod directly. Doing so might cause damage to the connector pins.
- iPod is charged through the dock when the System is turned on.

In this manual, "iPod" means iPod, iPod touch and iPhone device. When iPod touch or iPhone device is especially mentioned, "iPod touch" or "iPhone" is used in this case.

Before viewing a video/picture from your iPod on your monitor:
 Make the appropriate video setting on iPod. For details of the setting, see the instruction manual for iPod.

Playback operations

* Information shown on the display differs depending on the type of the iPod.

To play back/pause iPod

Press (iPod)

To select a track

Press ► or ◀

To fast-forward a track

Press and hold ►

To fast-reverse a track

Press and hold ◀

To play back at random

Press RND repeatedly.

To play back repeatedly

Press REPEAT repeatedly.

To put iPod in sleep mode

Press and hold (iPod)

Menu operations

To display the menu/to go back to the previous menu

MENCANCEL

To select an item on the menu

SET

Notes:

- Operate iPod touch or iPhone itself in the following cases:
 - When operating the home button.
 - When selecting application icons on the home screen.
 - When dragging the slider.
- Sound distortion may occur when playing back audio sources with high recording levels. If distortion occurs, it is recommended to turn off the equalizer of iPod. For information on operating the iPod, see the instruction manual for iPod.

External device

External device

Stereo mini plug cord (not supplied)

Playback operation

- 1 TUNER (AUDIO IN) TUNER FM ↔ AUDIO IN
- 2 Start playback of the external device.

Adjusting the audio input level

You can change the audio input level through the AUDIO IN jack.

SET HIGH NORMAL

- This function affects only the sound coming out through the speakers.

Disc/USB

Disc/USB

Label side

USB mass storage class device

Playback operations

- "CD" lights up when an audio CD is set.
- "USB" lights up when a USB device is connected.
- "MP3" or "WMA" lights up while an MP3/WMA is played.

To open the disc tray

Press ▲ on the main unit.

To play back/pause a disc

Press (CD)

To play back/pause a USB mass storage class device

Press (USB)

To select a track

Press ► or ◀

To fast-forward a track

Press and hold ►

To fast-reverse a track

Press and hold ◀

To select a group

Press ▲ or ▼

To stop playback

Press (PTY SEARCH)

Repeat Play

REP TRK	← 1	Repeats the current track.
REP GRP	←	Repeats all tracks in the current group (MP3/WMA only).
REP ALL	← ALL	Repeats all tracks.
REP OFF	Off	Cancels.

Random Play

RND GRP	RND	Plays tracks in the current group in a random order (MP3/WMA only).
RND ALL	RND ALL	Plays all tracks in a random order.
RND OFF	Off	Cancels.

Program Play

While playback is stopped...

- 1 PROGRAM
- 2 Select a track number (up to 32 tracks).
- 3 To cancel, press CANCEL.

Resume Play

This System stores the beginning of the stopped track.

When you start playback again, it starts from the beginning of the stored track.

- To clear the stored position, perform one of the following operations:
 - Press ■ twice.
 - Open the disc tray.
 - Disconnect the USB mass storage class device.
- This function cannot be used for Program Play.

Prohibiting disc ejection

You can lock the disc tray.

While the System is on standby... (On the main unit)

(While holding...)

LOCKED ↔ UNLOCKED