SONY

4-178-506-**14**(1)

Micro HI-FI Component System

GB Operating Instructions

CMT-FX205/FX200

COMPACT DISC DIGITAL AUDIO

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http://www.sony.net/

WARNING

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc. Do not place the naked flame sources such as lighted candles on the apparatus.

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.
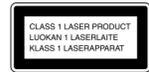
Do not expose batteries or apparatus with battery-installed to excessive heat such as sunshine, fire or the like.

The unit is not disconnected from the mains as long as it is connected to the AC outlet, even if the unit itself has been turned off.

Excessive sound pressure from earphones and headphones can cause hearing loss.

CAUTION

The use of optical instruments with this product will increase eye hazard.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

Notice for customers: the following information is only applicable to equipment sold in countries applying EU directives.

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku, Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters, please refer to the addresses given in separate service or guarantee documents.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.
Applicable accessories: Remote commander

Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.
On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead.
By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.
In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.
For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries.
For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.
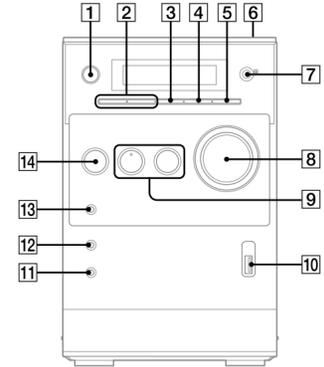
Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.
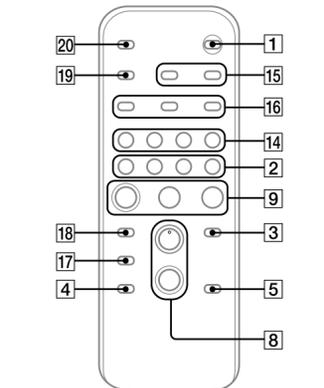
License and Trademark Notice

- MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.
- All other trademarks and registered trademarks are of their respective holders. In this manual, ™ and ® marks are not specified.
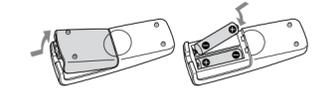

Unit

Remote

This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.

To use the remote

Slide and remove the battery compartment lid, and insert the two R6 (size AA) batteries (not supplied), ⊖ side first, matching the polarities shown below.

Notes on using the remote
- With normal use, the batteries should last for about six months.
- Do not mix an old battery with a new one or mix different types of batteries.
- If you do not use the remote for a long period of time, remove the batteries to avoid damage from battery leakage and corrosion.

When carrying this system

1 Remove a disc to protect the CD mechanism.

2 Press I/⏻ (power) ① on the unit to turn off the system and confirm that "STANDBY" stops flashing.

3 Unplug the power cord.

To set the clock

1 Press I/⏻ ① to turn on the system.

2 Press CLOCK/TIMER SET ⑮ to select the clock set mode.
If "PLAY SET" flashes, press I◀◀/▶▶I ② repeatedly to select "CLOCK", and then press ENTER ③.

3 Press I◀◀/▶▶I ② repeatedly to set the hour, then press ENTER ③.
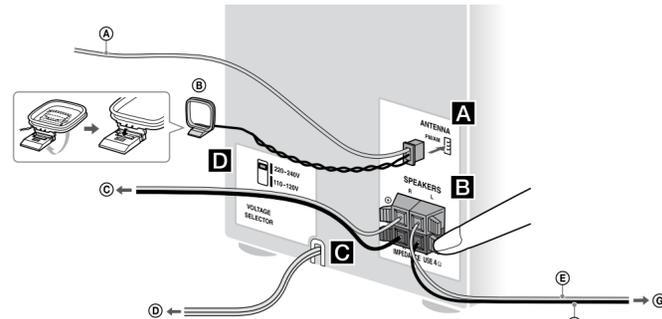
4 Use the same procedure to set the minutes.

Note
The clock settings are lost when you disconnect the power cord or if a power failure occurs.

To display the clock when the system is off

Press DISPLAY ⑲. The clock is displayed for about 8 seconds.

Getting Started

Ⓐ FM lead antenna (Extend it horizontally.)
Ⓑ AM loop antenna
Ⓒ To right speaker
Ⓓ To wall outlet

Ⓔ Speaker cord (Red/⊕)
Ⓕ Speaker cord (Black/⊖)
Ⓖ To left speaker

Ⓐ Antennas

Find a location and an orientation that provide good reception, and then set up the antenna.
Keep the antennas away from the speaker cords and the power cord to avoid picking up noise.

Ⓑ Speakers

Insert only the stripped portion of the cord.

Ⓒ Power

Connect the power cord to a wall outlet.
If the plug does not fit the wall outlet, detach the supplied plug adaptor (only for models equipped with an adaptor).

Ⓓ Voltage selector

For models with a voltage selector, set VOLTAGE SELECTOR to the local power line voltage.

To connect an optional headphones

Connect headphones to the PHONES jack ⑪ on the unit.

Operations

Playing a CD/MP3 disc

1 Select the CD function.
Press CD ⑭.

2 Place a disc.
Press ⏏ PUSH OPEN/CLOSE ⑥ on the unit, and place a disc with the label side up on the CD compartment.
To close the CD compartment, press ⏏ PUSH OPEN/CLOSE ⑥ on the unit.

3 Start playback.
Press ▶ (play) ⑨.

Other operations

To	Press
Pause playback	❙❙ (pause) ⑨. To resume play, press the button again.
Stop playback	■ (stop) ⑨.
Select a folder on an MP3 disc	🗀 (select folder) + ⑤/🗀 − ④ repeatedly.
Select a track or file	I◀◀ (go back)/▶▶I (go forward) ②.
Find a point in a track or file	Hold down ◀◀ (rewind)/▶▶ (fast forward) ② during playback, and release the button at the desired point.
Select Repeat Play	REPEAT ⑯ repeatedly until "REP" or "REP1" appears.

To change the play mode

Press PLAY MODE ⑯ repeatedly while the player is stopped. You can select normal play ("🗀" for all MP3 files in the folder on the disc), shuffle play ("SHUF" or "🗀 SHUF*" for folder shuffle), or program play ("PGM").
* When playing a CD-DA (audio) disc, 🗀 (SHUF) Play performs the same operation as normal 🗀 Play.

Note on Repeat Play
"REP1" indicates that a single track or file is repeated until you stop playback.

Note on shuffle play mode
When you turn off the system, the selected shuffle play mode ("SHUF" or "🗀 SHUF") is cleared and the play mode returns to normal play mode ("🗀").

Notes on playing MP3 discs

- Do not save other types of tracks or files, or unnecessary folders on a disc that has MP3 files.
- Folders that have no MP3 files are skipped.
- MP3 files are played back in the order that they are recorded onto the disc.
- The system can only play MP3 files that have a file extension of ".mp3".
- Even when file name has the ".mp3" file extension, if the actual file differs, playing this file may generate a loud noise which could damage the speaker system and the system may malfunction.
- The maximum number of:
  − folders is 255 (including the root folder).
  − MP3 files is 512.
  − folder levels (the tree structure of files) is 8.
- Compatibility with all MP3 encoding/writing software, recording device, and recording media cannot be guaranteed. Incompatible MP3 discs may produce noise or interrupted audio or may not play at all.

Notes on playing multisession discs

- If the first session on the disc is a CD-DA session, the other sessions on the disc cannot be recognized regardless of the session format; only CD-DA tracks in the first session can be played back.
- If the session format for the first session is CD-ROM and the following sessions are recorded in the same format, the system will continue to play back MP3 files accordingly in multiple sessions until the system encounters another session recorded in a different format.

Listening to the radio

1 Select "TUNER FM" or "TUNER AM."
Press TUNER/BAND ⑭ repeatedly.

2 Perform tuning.

For automatic scanning

Press TUNING MODE ⑯ repeatedly until "AUTO" appears, and then press +/− ②. Scanning stops automatically when a station is tuned in, and "TUNED" and "ST" (for stereo programs only) light up in the display.

ST TUNED FM   87.50

If "TUNED" does not light up and the scanning does not stop, press ■ ⑨ to stop scanning, then perform manual tuning (below).
When you tune in a station that provides RDS services, the station name appears on the display (European model only).

For manual tuning

Press TUNING MODE ⑯ repeatedly until "MANUAL" appears, and then press +/− ② repeatedly to tune in the desired station.

Tip
To reduce static noise on a weak FM stereo station, press FM MODE ⑯ repeatedly until "MONO" appears to turn off stereo reception.

Presetting radio stations

1 Tune in the desired station.

2 Press TUNER MEMORY ⑯ to select the tuner memory mode.

ST TUNED MEMORY

3 Press +/− ② repeatedly to select the desired preset number.
If another station is already assigned to the selected preset number, the station is replaced by the new station.

4 Press ENTER ③ to store the station.

5 Repeat steps 1 through 4 to store other stations.
You can preset up to 20 FM and 10 AM stations. The preset stations are retained for about half a day even if you disconnect the power cord or if a power failure occurs.

6 To call up a preset radio station, press TUNING MODE ⑯ repeatedly until "PRESET" appears, and then press +/− ② repeatedly to select the desired preset number.

Playing a file of the USB device

The audio format that can be played back on this system is MP3*.
* Files with DRM (Digital Rights Management) copyright protection cannot be played back on this system.
  Files downloaded from an online music store may not be played back on this system.

Check the websites below for the information about compatible USB devices.
For customers in Europe and Russia:
<http://support.sony-europe.com/>
For customers in Latin America:
<http://www.sony-latin.com/index.crp>
For customers in other countries/regions:
<http://www.sony-asia.com/support>

1 Select the USB function.
Press USB ⑭.

2 Connect the USB device to the ⟛ (USB) port ⑩.

3 Start playback.
Press ▶ ⑨.

Other operations

To	Press
Pause playback	❙❙ ⑨. To resume play, press the button again.
Stop playback	■ ⑨. To resume play, press ▶ ⑨*. To cancel resume play, press ■ ⑨ again.
Select a folder	🗀 + ⑤/🗀 − ④ repeatedly.
Select a file	I◀◀/▶▶I ②.
Find a point in a file	Hold down ◀◀/▶▶ ② during playback, and release the button at the desired point.
Select Repeat Play	REPEAT ⑯ repeatedly until "REP" or "REP1" appears.

* When playing a VBR MP3 file, the system may resume playback from a different point.

To change the play mode

Press PLAY MODE ⑯ repeatedly while the USB device is stopped. You can select normal play ("🗀" for all files in the folder on the USB device), shuffle play ("SHUF" or "🗀 SHUF"), or program play ("PGM").

Note on Repeat Play
"REP" indicates that all audio files on a USB device are repeated until you stop playback.

Note on shuffle play mode
When you turn off the system, the selected shuffle play mode ("SHUF" or "🗀 SHUF") is cleared and the play mode returns to normal play mode ("🗀").

To select a memory on the USB device

If the USB device has more than one memory (for example, internal memory and a memory card), you can select which memory to use and then start playback. You cannot select a memory during playback. Make sure to select a memory before starting playback.
Use buttons on the unit to select a memory on the USB device.

1 Press FUNCTION ⑭ repeatedly to select the USB function.

2 Connect the USB device to the ⟛ (USB) port ⑩.

3 While holding down ENTER ③, press ■ ⑨.

4 Press I◀◀/▶▶I ② repeatedly to select a memory number.
Proceed to step 5 if only one memory can be selected. To cancel this operation, press ■ ⑨.

5 Press ENTER ③.

Notes
- When USB cable connection is necessary, connect the USB cable supplied with the USB device to be connected. See the operation manual supplied with the USB device to be connected for details on the operation method.
- It may take about 10 seconds before "READING" appears depending on the type of USB device connected.
- Do not connect the system and the USB device through a USB hub.
- When the USB device is inserted, the system reads all the files on the USB device. If there are many folders or files on the USB device, it may take a long time to finish reading the USB device.
- With some connected USB devices, after an operation is performed, there may be a delay before it is performed by this system.
- Compatibility with all encoding/writing software cannot be guaranteed. If audio files on the USB device were originally encoded with incompatible software, those files may produce noise or interrupted audio, or may not play at all.
- This system cannot play audio files on the USB device in the following cases;
  − when the number of audio files in a folder exceeds 999.
  − when the total number of audio files on a USB device exceeds 5,000.
  − when the number of folders on a USB device exceeds 255 (including the "ROOT" folder and excluding empty folders).
  These numbers may vary depending on the file and folder structure. Do not save other types of files or unnecessary folders on a USB device that has audio files.
- The system can play back to a depth of 8 folders only.
- This system does not necessarily support all the functions provided in a connected USB device.
- Resume play is cancelled when you turn off the system.
- Files and folders are displayed in the order of their creation on the USB device.
- Folders that have no audio files are skipped.
- The audio format that you can listen to with this system is MP3 with an ".mp3" file extension.
  Note that even when file name has the correct file extension, if the actual file differs, the system may produce noise or may malfunction.

To use the system as battery charger

You can use the system as a battery charger for USB devices that have a rechargeable function when the system is on.
The charging begins when the USB device is connected to the ⟛ (USB) port ⑩. The charge status appears in the USB device display. For details, see the user's guide of your USB device.

Note on charging the USB device with this system
You cannot use the system as a battery charger in the following cases;
− the CD player/USB device power is turned off and the tuner function is selected. See "To improve tuner reception."
− when the system is off.

Creating your own program (Program Play)

1 Select the CD or USB function.
Press FUNCTION [14] repeatedly.

2 Select the play mode.
Press PLAY MODE [16] repeatedly until "PGM" appears while the player is stopped.

3 Select the desired track or file number.
Press [◄◄]/[►►] [2] repeatedly until the desired track or file number appears.
When programming MP3 files, press [+] + [5]/[−] [4] repeatedly to select the desired folder, and then select the desired file.

Selected track or file number / Total playing time of the selected track or file

4 Program the selected track or file.
Press ENTER [3] to enter the selected track or file.

5 Repeat steps 3 through 4 to program additional tracks or files, up to a total of 25 tracks or files.

6 To play your program of tracks or files, press [►] [9].
The program remains available until you open the CD compartment. To play the same program again, press [►] [9].

To cancel Program Play
Press PLAY MODE [16] repeatedly until "PGM" disappears while the player is stopped.

To delete the last track or file of the program
Press CLEAR [18] while the player is stopped.

To view program information, such as total track number of the program
Press DISPLAY [19] repeatedly.

Using optional audio components

1 Prepare the sound source.
Connect additional audio component to the AUDIO IN jack [12] on the unit using an audio analog cord (not supplied).

2 Turn down the volume.
Press VOLUME − [8].

3 Select the AUDIO IN function.
Press FUNCTION [14] repeatedly.

4 Start playback.
Start playback of the connected component and adjust the volume.

Note
The system may enter standby mode automatically if the volume level of the connected component is too low. Adjust the component's volume accordingly. See "To turn off the automatic standby function."

Adjusting the sound

To	Press
Adjust the volume	VOLUME +/− [8].
Generate a more dynamic sound (Dynamic Sound Generator X-tra)	DSGX [13] on the unit.
Set the sound effect	EQ [17].

Changing the display

To	Press
Change information on the display*	DISPLAY [19] repeatedly when the system is on.
Check the clock when the system is off	DISPLAY [19] when the system is off. The clock is displayed for 8 seconds.

* For example, you can view CD/MP3 disc information or the USB device information, such as;
 —track or file number during normal play.
 —track or file name ("♫") during normal play.
 —artist name ("👤") during normal play.
 —album or folder name ("📁") during normal play.
 —total playing time and total number of tracks on the CD-DA disc (only when normal play mode is selected and the player is stopped).
 —total number of folders (albums) on the MP3 disc or the USB device (only when normal play mode is selected and the player or the USB device is stopped).
 —volume label if it exists on the MP3 disc or the USB device (only when normal play mode is selected and the player or the USB device is stopped).

Notes on the display information
• Characters that cannot be displayed appear as "_".
• The following are not displayed;
 —total playing time for an MP3 disc and a USB device.
 —remaining playing time for an MP3 file.
• The following are not displayed correctly;
 —elapsed playing time of an MP3 file encoded using VBR (variable bit rate).
 —folder and file names that do not follow either the ISO9660 Level 1, Level 2 or Joliet in the expansion format.
• The following are displayed;
 —remaining playing time for a track.
 —ID3 tag information for MP3 files when ID3 version 1 and version 2 tags are used (ID3 version 2 tag information display has priority when both ID3 version 1 and version 2 tags are used for a single MP3 file).
 —up to 32 characters of ID3 tag information using uppercase letters (A to Z), numbers (0 to 9), and symbols (˝ $ % ´ ( ) * + , - . / < = > @ [\ ] _ ˋ { | } ! ? ^ ˜).

Using the timers

The system offers two timer functions. If you use both timers, the Sleep Timer has priority.

Sleep Timer:
You can fall asleep to music. This function works even if the clock is not set.
Press SLEEP [20] repeatedly. If you select "AUTO," the system automatically turns off after the current disc or USB device stops, or within 100 minutes.

Play Timer:
You can wake up to CD, FM/AM reception or USB device at a preset time.
Make sure you have set the clock.

1 Prepare the sound source.
Prepare the sound source, and then press VOLUME +/− [8] to adjust the volume.
To start from a specific CD track or audio file, create your own program.

2 Select the timer set mode.
Press CLOCK/TIMER SET [15].

3 Set the play timer.
Press [◄◄]/[►►] [2] repeatedly to select "PLAY SET," then press ENTER [3].

4 Set the time to start playback.
Press [◄◄]/[►►] [2] repeatedly to set the time, then press ENTER [3].

5 Use the same procedure as in step 4 to set the time to stop playback.

6 Select the sound source.
Press [◄◄]/[►►] [2] repeatedly until the desired sound source appears, then press ENTER [3].

7 Turn off the system.
Press [I/⏻] [1]. The system turns on 15 seconds before the preset time.
If the system is on at the preset time, the Play Timer will not play. Do not operate the system from the time the system turns on until the playback starts.

To check the setting
1 Press CLOCK/TIMER SELECT [15].
2 Press [◄◄]/[►►] [2] repeatedly to select "PLAY SEL," and then press ENTER [3].

To cancel the timer
Repeat the same procedure as above until "OFF" appears in step 2, and then press ENTER [3].

To change the setting
Start over from step 1.

Tip
The Play Timer setting remains as long as the setting is not cancelled manually.

Troubleshooting

1 Make sure the power cord and speaker cords are correctly and firmly connected.

2 Find your problem in the checklist below, and take the indicated corrective action.
If the issue persists, contact your nearest Sony dealer.

If "PROTECT" appears on the display
Immediately unplug the power cord, and check the following items after "PROTECT" disappears.
• Are the + and − speaker cords short-circuited?
• Is anything blocking the ventilation holes of the system?
After you have checked these above items and found to be all right, reconnect the power cord, and turn on the system. If the issue persists, contact your nearest Sony dealer.

General

The system does not turn on.
• Is the power cord plugged in?

The system has entered standby mode unexpectedly.
• This is not a malfunction. The system enters standby mode automatically in about 30 minutes when there is no operation or audio signal output. See "To turn off the automatic standby function."

The clock setting or the Play Timer operation has been cancelled unexpectedly.
• If about a minute elapses with no operation, the clock setting or Play Timer setting is cancelled automatically. Perform the operation again from the beginning.

There is no sound.
• Are the + and − speaker cords short-circuited?
• Are you using only the supplied speakers?
• Is anything blocking the ventilation holes of the system?
• The specified station may have temporarily stopped broadcast.

Sound comes from one channel, or the left and right volumes are unbalanced.
• Place the speakers as symmetrically as possible.
• Connect only the supplied speakers.

Severe hum or noise.
• Move the system away from sources of noise.
• Connect the system to a different wall outlet.
• Install a noise filter (available separately) to the power cord.

The remote does not function.
• Remove any obstacles between the remote and the remote sensor [7] on the unit, and position the unit away from fluorescent lights.
• Point the remote at the system's sensor.
• Move the remote closer to the system.

CD/MP3 player

The sound skips, or the disc will not play.
• Wipe the disc clean, and replace it.
• Move the system to a location away from vibration (for example, on top of a stable stand).
• Move the speakers away from the system, or place them on separate stands. At high volume, speaker vibration may cause the sound to skip.

Play does not start from the first track.
• Return to Normal Play by pressing PLAY MODE [16] repeatedly until both "PGM" and "SHUF" disappear.

Starting playback takes more time than usual.
• The following discs can increase the time it takes to start playback;
 —a disc recorded with a complicated tree structure.
 —a disc recorded in multisession mode.
 —a disc that has not been finalized (a disc to which data can be added).
 —a disc that has many folders.

USB device

The connected USB device cannot be charged.
• Make sure the USB device is connected securely.
• If you have turned off the CD player/USB device power, select a function other than the tuner function, or turn on the CD player/USB device power. See "To improve tuner reception."

Are you using a supported USB device?
• If you connect an unsupported USB device, the following problems may occur. Check the information on the websites about compatible USB devices with URLs listed under "Playing a file of the USB device."
 —The USB device is not recognized.
 —File or folder names are not displayed on this system.
 —Playback is not possible.
 —The sound skips.
 —There is noise.
 —A distorted sound is output.

"OVER CURRENT" appears.
• A problem has been detected with the level of electrical current from the [◄◄] (USB) port [10]. Turn off the system and remove the USB device from the [◄◄] (USB) port [10]. Make sure there is no problem with the USB device. If this display pattern persists, contact your nearest Sony dealer.

There is no sound.
• The USB device is not connected correctly. Turn off the system, then reconnect the USB device.

There is noise, skipping, or distorted sound.
• Turn off the system, then reconnect the USB device.
• The music data itself contains noise, or the sound is distorted. Noise may have been entered when creating music data due to the conditions of computer. Create the music data again.
• The bit rate used when encoding the files was low. Send files encoded with higher bit rates to the USB device.

"READING" is displayed for an extended time, or it takes a long time before playback starts.
• The reading process can take a long time in the following cases.
 —There are many folders or files on the USB device.
 —The file structure is extremely complex.
 —The memory capacity is excessive.
 —The internal memory is fragmented.

Erroneous display
• Send the music data to the USB device again, as the data stored in the USB device may have been corrupted.
• The character codes that can be displayed by this system are numbers and alphabets only. Other characters are not displayed correctly.

The USB device is not recognized.
• Turn off the system and reconnect the USB device, then turn on the system.
• Check the information on the websites about compatible USB devices with URLs listed under "Playing a file of the USB device."
• The USB device does not work properly. Refer to the USB device operation manual for how to deal with this problem.

Play does not start.
• Turn off the system and reconnect the USB device, then turn on the system.
• Check the information on the websites about compatible USB devices with URLs listed under "Playing a file of the USB device."
• Press [►] [9] to start playback.

Play does not start from the first track.
• Set the play mode to Normal Play mode.

Files cannot be played back.
• The MP3 file does not have the extension ".mp3".
• The data is not stored in MP3 format.
• USB storage devices formatted with file systems other than FAT16 or FAT32 are unsupported.*
• If you use a partitioned USB storage device, only files on the first partition can be played.
• Files that are encrypted or protected by passwords, etc. cannot be played back.

* This system supports FAT16 and FAT32, but some USB storage devices may not support all of these FAT. For details, see the operation manual of each USB storage device or contact the manufacturer.

Tuner

Severe hum or noise, or stations cannot be received. ("TUNED" or "ST" flashes on the display.)
• Connect the antenna properly.
• Find a location and an orientation that provide good reception, and then set up the antenna again.
• Keep the antennas away from the speaker cords and the power cord to avoid picking up noise.
• Turn off nearby electrical equipment.

Several radio stations can be heard at the same time.
• Find a location and an orientation that provide good reception, and then set up the antenna again.
• Bundle the antenna cables using commercially available cord clips, for example, and adjust the cable lengths.

To change the AM tuning interval (except models for Europe, Russia, Saudi Arabia, Kuwait and Egypt)
The AM tuning interval is factory-preset to 9 kHz (or 10 kHz for some areas).
Use buttons on the unit to change the AM tuning interval.

1 Tune in any AM station, and then turn off the system.

2 Press DISPLAY [19] to display the clock.

3 While holding down [►►] [2], press [I/⏻] [1].
All the AM preset stations are erased. To reset the interval to the factory preset, repeat the procedure.

To improve tuner reception
Turn off CD player/USB device power by using the system's power management function. By default, CD player/USB device power is turned on.
Use buttons on the unit to turn off the CD player/USB device power.

1 Press FUNCTION [14] repeatedly to select the CD function.

2 Press [I/⏻] [1] to turn off the system.

3 After "STANDBY" stops flashing, press DISPLAY [19] to display the clock and then press [I/⏻] [1] while holding down [■] [9], until "CD/USB PWR OFF" appears.
With CD player/USB device power turned off, access time is increased. In addition, when the tuner function is selected, power is not supplied to the USB device, so it is not recognized and charged even if connected. To turn on CD player/USB device power, repeat the procedure until "CD/USB PWR ON" appears.

To reset the system to factory settings
If the system still does not operate properly, reset the system to factory settings.
Use buttons on the unit to reset the unit to its factory default settings.

1 Disconnect and reconnect the power cord, and then turn on the system.

2 While holding down FUNCTION [14] and [+] [5], press [I/⏻] [1].
All user-configured settings, such as preset radio stations, timer, and the clock, are deleted.

To turn off the automatic standby function
This system is equipped with an automatic standby function. With this function, the system enters standby mode automatically in about 30 minutes when there is no operation or audio signal output.
By default, the automatic standby function is turned on. Use buttons on the unit to turn off the automatic standby function.
Hold down [I/⏻] [1] while the system is on, until "AUTO. STBY OFF" appears.
To turn on the function, repeat the procedure until "AUTO. STBY ON" appears.

Notes
• "AUTO STANDBY" lights up in the display when the automatic standby function is turned on.
• The automatic standby function is invalid for the tuner functions (FM/AM), even when "AUTO STANDBY" lights up in the display.
• The system may not enter standby mode automatically in the following cases;
 —when an audio signal is detected.
 —when a USB device is connected.
 —during playback of audio tracks or files.
 —while the preset Play Timer or Sleep Timer is in process.

Messages

CANNOT PLAY : You tried to play an unsupported file on the USB device.
DATA ERROR : You tried to play an unplayable file on the USB device.
DEVICE ERROR : The USB device could not be recognized or an unknown device is connected.
FULL : You tried to program more than 25 tracks or files (steps).
NoDEVICE : No USB device is connected or the connected USB device has been stopped.
NO DISC : There is no disc in the player, or you have loaded a disc that cannot be played.
NoMEMORY : The memory selected for playback has no memory media inserted in the USB device.
NO STEP : All of the programmed tracks have been erased.
NO SUPPORT : An unsupported USB device is connected.
NO TRACK : Playable file on the USB device is not loaded in the system.
NOT USED : You tried to perform a specific operation under conditions where that operation is prohibited.
OVER : You have reached the end of the disc while pressing [►►] [2] during playback or pause.
PUSH SELECT : You tried to set the clock or timer during timer operation.
PUSH STOP : You pressed PLAY MODE [16] during playback.
SET CLOCK : You tried to select the timer when the clock is not set.
SET TIMER : You tried to select the timer when the Play Timer is not set.
TIME NG : The Play Timer start and end times are set to the same time.

Precautions

Discs that this system CAN play
• Audio CD
• CD-R/CD-RW (audio data/MP3 files)

Discs that this system CANNOT play
• CD-ROM
• CD-R/CD-RW other than those recorded in music CD format or MP3 format conforming to ISO9660 Level 1/Level 2, Joliet
• CD-R/CD-RW recorded in multisession that have not ended by "closing the session"
• CD-R/CD-RW of poor recording quality, CD-R/CD-RW that have scratches or are dirty, or CD-R/CD-RW recorded with an incompatible recording device
• CD-R/CD-RW which is finalized incorrectly
• Discs containing files other than MPEG 1 Audio Layer-3 (MP3) files
• Discs of non-standard shape (for example, heart, square, star)
• Discs that have adhesive tape, paper, or sticker attached to them
• Rental or used discs with attached seals where the glue extends beyond the seal
• Discs that have labels printed using ink that feels tacky when touched

Notes on discs
• Before playing, wipe the disc with a cleaning cloth from the center out to the edge.
• Do not clean discs with solvents, such as benzine, thinner, or commercially available cleaners or anti-static spray intended for vinyl LPs.
• Do not expose discs to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

On safety
• Completely disconnect the power cord (mains lead) from the wall outlet (mains) if it is not going to be used for an extended period of time. When unplugging the unit, always grip the plug. Never pull the cord itself.
• Should any solid object or liquid get into the system, unplug the system, and have it checked by qualified personnel before operating it again.
• The AC power cord can be changed only by a qualified service facility.

On placement
• Do not place the system in an inclined position or in locations that are extremely hot, cold, dusty, dirty, or humid or lacking adequate ventilation, or subject to vibration, direct sunlight or a bright light.
• Be careful when placing the unit or speakers on surfaces that have been specially treated (for example, with wax, oil, polish) as staining or discoloration of the surface may result.
• If the system is brought directly from a cold to a warm location or is placed in a very damp room, moisture may condense on the lens inside the CD player, and cause the system to malfunction. In this situation, remove the disc, and leave the system turned on for about an hour until the moisture evaporates.

On heat buildup
• Heat buildup on the unit during operation is normal and is not cause for alarm.
• Do not touch the cabinet if it has been used continuously at a high volume because the cabinet may have become hot.
• Do not obstruct the ventilation holes.

On the speaker system
This speaker system is not magnetically shielded, and the picture on nearby TV sets may become magnetically distorted. In this situation, turn off the TV, wait 15 to 30 minutes, and turn it back on.
If there is no improvement, move the speakers far away from the TV.

Cleaning the cabinet
Clean this system with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as thinner, benzine, or alcohol.

Specifications

Main unit

Amplifier section
European and Russian models:
DIN power output (rated): 4 watts + 4 watts (4 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 5 watts + 5 watts (4 ohms at 1 kHz, 10% THD)
Music power output (reference): 9 watts + 9 watts
Other models:
DIN power output (rated): 4 watts + 4 watts (4 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 5 watts + 5 watts (4 ohms at 1 kHz, 10% THD)

Input
AUDIO IN (stereo mini jack): Sensitivity 550 mV, impedance 50 kilohms

Outputs
PHONES (stereo mini jack): Accepts headphones with an impedance of 8 ohms or more
SPEAKERS: Accepts impedance of 4 ohms

CD player section
System: Compact disc and digital audio system
Laser Diode Properties
Emission Duration: Continuous
Laser Output*: Less than 44.6μW
* This output is the value measurement at a distance of 200mm from the objective lens surface on the Optical Pick-up Block with 7mm aperture.
Frequency response: 20 Hz – 20 kHz
Signal-to-noise ratio: More than 90 dB
Dynamic range: More than 90 dB

Tuner section
FM stereo, FM/AM superheterodyne tuner

FM tuner section:
Tuning range
Models for Europe, Russia, Saudi Arabia, Kuwait and Egypt:
531 kHz − 1,602 kHz (9 kHz step)
Australian model:
531 kHz − 1,710 kHz (9 kHz step)
530 kHz − 1,710 kHz (10 kHz step)
Argentine model:
530 kHz − 1,710 kHz (10 kHz step)
531 kHz − 1,710 kHz (9 kHz step)
Other models:
531 kHz − 1,602 kHz (9 kHz step)
530 kHz − 1,610 kHz (10 kHz step)
Antenna: FM lead antenna
Intermediate frequency: 225 kHz

AM tuner section:
Tuning range
Models for Europe, Russia, Saudi Arabia, Kuwait and Egypt:
531 kHz − 1,602 kHz (9 kHz step)
Australian model:
531 kHz − 1,710 kHz (9 kHz step)
530 kHz − 1,710 kHz (10 kHz step)
Argentine model:
530 kHz − 1,710 kHz (10 kHz step)
531 kHz − 1,710 kHz (9 kHz step)
Other models:
531 kHz − 1,602 kHz (9 kHz step)
530 kHz − 1,610 kHz (10 kHz step)
Antenna: AM loop antenna
Intermediate frequency: 53 kHz

USB section
Supported bit rate:
MP3 (MPEG 1 Audio Layer-3): 32 kbps − 320 kbps, VBR
Sampling frequencies:
MP3 (MPEG 1 Audio Layer-3): 32/44.1/48 kHz
[◄◄] (USB) port: Type A, maximum current 500 mA

Speaker
Speaker system: Full range, 8 cm dia., cone type
Rated impedance: 4 ohms
Dimensions (W/H/D): Approx. 148 mm × 240 mm × 127 mm
Mass: Approx. 1.23 kg net per speaker

General
Power requirements:
European and Russian models: AC 230 V, 50/60 Hz
Australian model: AC 230 V − 240 V, 50/60 Hz
Latin American models (except for Brazilian, Mexican and Argentine models): AC 110 V − 120 V or 220 V − 240 V, 50/60 Hz, adjustable with voltage selector
Brazilian model: AC 127 V or 220 V, 60 Hz, adjustable with voltage selector
Mexican model: AC 120 V, 60 Hz
Argentine model: AC 220 V, 50/60 Hz
Models for Middle and Near East: AC 110 V − 120 V or 220 V − 240 V, 50/60 Hz, adjustable with voltage selector
Korean model: AC 220 V, 50/60 Hz
Taiwan model: AC 120 V, 50/60 Hz
Thai model: AC 220 V, 50/60 Hz
Other models: AC 220 V − 240 V, 50/60 Hz
Power consumption:
European and Russian models: 28 watts
Latin American models (except for Mexican and Argentine models): 28 watts
Models for Middle and Near East: 28 watts
Other models: 25 watts
Dimensions (W/H/D) (excl. speakers):
Approx. 158 mm × 240 mm × 225.5 mm
Mass (excl. speakers): Approx. 2.1 kg

Supplied accessories: Remote Commander (1), FM lead/AM loop antenna (1)

Design and specifications are subject to change without notice.

• Standby power consumption: 0.5 W
• Halogenated flame retardants are not used in the certain printed wiring boards.