SONY

Personal Audio System

Operating Instructions

Made for
☐ iPod ☐ iPhone

NO POWER
NO PROBLEM

Ⓝ ❽ **Bluetooth**®

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*4 4 6 8 3 9 7 6 3 * (1)

ICF-CS20BT

English	Personal Audio System

Before operating the system, please read this guide thoroughly and retain it for future reference.

Hereby, Sony Corp., declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
For details, please access the following URL:
http://www.compliance.sony.de/

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 system from the mains, connect the system to an easily accessible AC outlet. Should you notice an abnormality in the system, disconnect the main plug from the AC outlet immediately.

The system is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the system itself has been turned off.

Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.

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Lightning is a trademark of Apple Inc.
"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.
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Notes
• This system is not specified for use with an iPad via USB connection, and malfunction may result if used with one.
• In the Operating Instructions, "iPod" is used as a general reference to functions on an iPhone, iPad or iPod, unless otherwise specified by the text or illustrations.

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

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Precautions

Note when using with a mobile phone
• For details on operation of your mobile phone when receiving a telephone call while transmitting the sound using the BLUETOOTH connection, refer to the operating instructions supplied with the device.

On safety
The nameplate indicating Sony trademark, model number and electrical rating is located on the bottom exterior of this system.

Notes on the AC plug
• Plug the AC plug into a nearby wall outlet. In the case of a problem, unplug it from the wall outlet immediately.
• Do not twist or place heavy objects on the AC plug cord.
• To disconnect AC power, grasp the plug itself, not the cord.

On placement
• Do not set the speaker in an inclined position.
• Do not leave the system in a location near heat sources, or in a place subject to direct sunlight, excessive dust, moisture, rain or mechanical shock.
• Do not expose the battery to excessive heat such as direct sunlight, fire or the like.

On operation
• Do not insert any small objects, etc., into the jacks. The system may short out or malfunction.

On cleaning
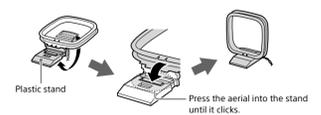• Do not use alcohol, benzine, or thinner to clean the cabinet.

Others
• If you have any questions or problems concerning this system that are not covered in this manual, please consult your nearest Sony dealer.
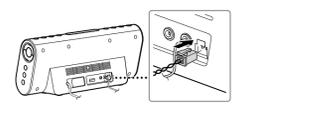

► Getting Started

Connecting to a Power Source

1 Plug the AC plug into a wall outlet firmly.

About the battery as a backup power source
This system contains a CR2032 battery as a backup power source to keep the clock and the alarm operating during a power interruption. (No Power No Problem system)

CAUTION

When to replace the battery
When the battery becomes weak, "⌧" lights up in the display. If a power interruption occurs while the battery is weak, the current time and alarm will be erased.
Replace the battery with a Sony CR2032 lithium battery. Use of another battery may cause a fire or explosion.
To replace the battery, see "Replacing the Battery" for details.

Note
• If "0:00" flashes in the display when the system is connected to an AC outlet for the first time, remove the insulation film of the backup battery before use. For details, see "Setting the clock for the first time."

Setting the Clock

Right side of the system

Setting the clock for the first time
When using the system for the first time after purchase, perform the following.

1 Remove the insulation film from the backup battery on the bottom of the system.

2 Plug in the system.

3 Press and hold CLOCK 4 until the year digits begin to flash in the display.

4 Press ALARM TIME SET +/− 3 to select the year, and then press CLOCK 4 to confirm.
Press and hold ALARM TIME SET +/− 3 to change the year digits quickly. Once you confirm the setting by pressing CLOCK 4, the month digits begin to flash.

5 Repeat step 4 to set the month, day, hour and minute.
The seconds start incrementing from zero.

Notes
• If you do not press any button for about 1 minute while setting the clock, the clock setting will be cancelled.
• A 100-year calendar (2013 - 2112) is installed in the system. When the date is set, the day of the week is automatically displayed.
  MON = Monday, TUE = Tuesday, WED = Wednesday,
  THU = Thursday, FRI = Friday, SAT = Saturday, SUN = Sunday

To change the clock after setting the clock for the first time
Perform steps 3 to 5 above.

To change the time format
You can choose the displayed time format between the 24-hour system (default) or the 12-hour system.
Press and hold OFF 1 and SNOOZE/BRIGHTNESS 2 for about 2 seconds.
The time format toggles between the 24-hour system ("0:00" = midnight) and the 12-hour system ("AM 12:00" = midnight).

To display the year and date
While the clock is displayed, press CLOCK 4 once to display the month and date, and press again to display the year. To return to the current time display, press CLOCK 4 once again; or after a few seconds the display will return automatically.

Connecting the AM Loop Aerial

The shape and length of the aerial is designed to receive AM signals. Do not dismantle or roll up the aerial.

1 Raise the plastic stand and fit the aerial into the slot of the stand.

Plastic stand

Press the aerial into the stand until it clicks.

2 Insert the AM aerial connector in the **AM ANTENNA** jack on the rear of the system.

To remove the AM loop aerial
Push and hold down the tab of the aerial terminal clamp, and remove the AM loop aerial.

How to Make Wireless Connection with BLUETOOTH Devices

You can enjoy music and hands-free calling with the system wirelessly by using your device's BLUETOOTH function.
Choose one of the following three connection methods, best suited for the BLUETOOTH device. For details on how to operate your device, refer to the operating instructions supplied with the device.

Pairing with a BLUETOOTH device: see Pattern A
BLUETOOTH devices need to be "paired" with each other beforehand.

Connecting with a paired device: see Pattern B
To listen to music with a BLUETOOTH device that has been paired, see this pattern.

One-touch connection with a smartphone (NFC): see Pattern C
Using an NFC compatible smartphone, you can establish BLUETOOTH connection by just touching the system with it.
For details about NFC, see "About NFC" in Pattern C .

Check the following before operating the system.
• Both the system and the device are placed within 1 m of each other.
• The system is connected to a power source.
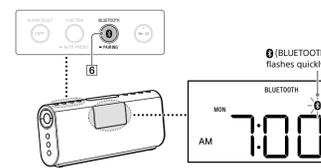• The operating instructions supplied with the device are kept at hand.

Pattern A

Pairing and connecting with a BLUETOOTH device

1 Set the BLUETOOTH function of the BLUETOOTH device to on.
For details, refer to the operating instructions supplied with the device.

2 Press and hold ❽ BLUETOOTH − PAIRING 6 on the system until beeps are heard and "❽ (BLUETOOTH)" begins to flash quickly in the display.

Tip
• From the factory, pairing information is not stored in the system. In this case, if you only press ❽ BLUETOOTH − PAIRING 6 , "❽ (BLUETOOTH)" starts flashing quickly in the display.

❽ (BLUETOOTH) flashes quickly

3 Perform the pairing procedure on the BLUETOOTH device to detect the system.
If "SONY: ICF-CS20BT" does not appear on the device's display, repeat from step 1.

Note
• Some devices cannot display a list of detected devices.

4 Select "SONY: ICF-CS20BT" shown in the display of the BLUETOOTH device.

5 If Passcode* input is required on the display of the BLUETOOTH device, input "0000."
The BLUETOOTH connection is established and "❽ (BLUETOOTH)" in the display stays on.
* Passcode may be called "Passkey," "PIN code," "PIN number," or "Password."

Tip
• To pair with other BLUETOOTH devices, repeat steps 1 to 5 for each device.

Notes
• Pairing mode of the system is cancelled after about 5 minutes, and "❽ (BLUETOOTH)" in the display flashes slowly. If the pairing mode is cancelled while performing this procedure, start over from step 2.
• Passcode of the system is fixed as "0000." The system cannot be paired with a BLUETOOTH device whose Passcode is not "0000."
• Once BLUETOOTH devices are paired, there is no need to pair those devices again. However, in the following cases, you will need to perform the pairing procedure again.
  — Pairing information is deleted after repair, etc.
  — The system is paired with 9 or more devices.
  The system can be paired with up to 8 BLUETOOTH devices. If a new device is paired after 8 devices have been paired, the device whose latest connection time is the oldest among the 8 paired devices is replaced by the new one.
• More than one device can be paired with the system, but sound will be heard from just one of those devices.

Pattern B

Connecting with a paired BLUETOOTH device

1 Set the BLUETOOTH function of the BLUETOOTH device to on.

Tips
• When ❽ BLUETOOTH 6 is pressed, the system tries to establish BLUETOOTH connection with the BLUETOOTH device connected to the system last time. The BLUETOOTH connection is established and "❽ (BLUETOOTH)" in the display stays on.
• When "❽ (BLUETOOTH)" lights up in the display, the system is connected to a BLUETOOTH device. When you want to connect another BLUETOOTH device, terminate the current BLUETOOTH connection first by operating the connected BLUETOOTH device.

2 Select "SONY: ICF-CS20BT" shown in the display of the BLUETOOTH device.
If necessary, select a BLUETOOTH profile that the system supports from the following: A2DP, HSP or HFP. For details on each profile, see "Listening to Music by BLUETOOTH Connection with a Smartphone, etc." or "Using Hands-free Calling While Listening to Music."

Note
• This step may not be necessary for some devices.

The BLUETOOTH connection is established and "❽ (BLUETOOTH)" in the display stays on.

Pattern C

Connecting with a smartphone by One touch (NFC)

By just touching the system with an NFC compatible smartphone, the system pairs and connects with the smartphone. (After making the BLUETOOTH connection, the system switches to the BLUETOOTH function automatically.)

Compatible smartphones
• Smartphones with the NFC function built-in
  (OS: Android 2.3.3 or later, excluding Android 3.x)
  Customers in Asia
  Access the following Web site for details:
  http://www.sony-asia.com/section/support

About NFC
NFC (Near Field Communication) is a technology enabling short-range wireless communication between various devices, such as mobile phones and IC tags. Thanks to the NFC function, data communication can be achieved easily just by touching the relevant symbol or designated location on NFC compatible devices.

1 Set the NFC function of the smartphone to on.
For details, refer to the operating instructions supplied with the smartphone.
• If your smartphone OS is Android 2.3.3 or later, and less than Android 4.1: proceed to step 2.
• If your smartphone OS is Android 4.1 or later: proceed to step 4.

2 Download and install the app "NFC Easy Connect" on the smartphone.
"NFC Easy Connect" is an original app by Sony for Android phones, and is available at Google Play Store.
Search for "NFC Easy Connect" or scan the following two-dimensional code to download and install the free app. Communication fees are required to download the app.
The App may not be available in some countries and/or regions.

Tip
• For some smartphones, One-touch connection may be available without downloading the app "NFC Easy Connect." In that case, the operation and specifications may be different from the description here. For details, refer to the operating instructions supplied with the smartphone.
By the two-dimensional code:
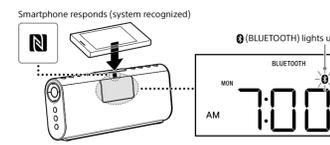Use a two-dimensional code reader app.

3 Start the app "NFC Easy Connect" on the smartphone.
Make sure that the application screen is displayed.

4 Touch the system with the smartphone.
Keep touching the smartphone on the N marked part of the system until the smartphone responds.

Note
• If the screen of your smartphone is locked, the smartphone will not function. In this case, release the lock, then touch the smartphone on the N marked part again.

Smartphone responds (system recognized)

❽ (BLUETOOTH) lights up

Follow the on-screen instructions to establish the connection.
The BLUETOOTH connection is established and "❽ (BLUETOOTH)" in the display stays on.

Tips
• If it is difficult to establish the connection, try the following.
  — Activate the app "NFC Easy Connect" and move the smartphone slightly on the N marked part of the system.
  — If the smartphone is in a case, remove it.
• Touch the system with the smartphone again to disconnect.
• If you have multiple NFC compatible devices, just touch the smartphone to a different device to switch the connection to that device. For example, when your smartphone is connected with NFC compatible headphones, just touch the smartphone to the system to change the BLUETOOTH connection to the system.
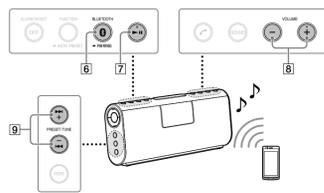
Indications of the BLUETOOTH function

Status	Display
BLUETOOTH function	"BLUETOOTH" lights up
Pairing with a device	"❽ (BLUETOOTH)" flashes quickly
Searching for a device	"❽ (BLUETOOTH)" flashes
Connected to a device	"❽ (BLUETOOTH)" lights up

► Listening to Music

Listening to Music by BLUETOOTH Connection with a Smartphone, etc.

You can enjoy listening to music and basic remote control operation of a BLUETOOTH device via BLUETOOTH connection. The BLUETOOTH device is required to support the following BLUETOOTH profiles.
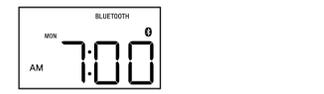• A2DP (Advanced Audio Distribution Profile): enables you to enjoy high-quality audio content wirelessly.
• AVRCP (Audio Video Remote Control Profile): enables you to enjoy basic remote control operation (play, stop, etc.) of a BLUETOOTH device.

Operations may vary depending on the BLUETOOTH device. Refer also to the operating instructions supplied with your BLUETOOTH device.

1 Make the BLUETOOTH connection between the system and the device.
For details on the BLUETOOTH connection procedure, see "How to Make Wireless Connection with BLUETOOTH Devices." The BLUETOOTH connection is established and "❽ (BLUETOOTH)" in the display stays on.

2 Start playback on the BLUETOOTH device, then adjust the volume.
Set the volume of the BLUETOOTH device to a moderate level, and press VOLUME −/+ 8 on the system.
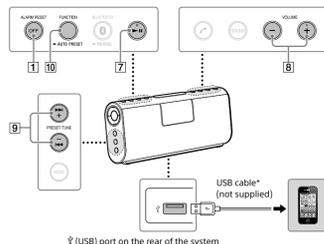
After use
Do any of the following to terminate the BLUETOOTH connection.
• Set the BLUETOOTH function of the BLUETOOTH device to off. For details, refer to the operating instructions supplied with the device.
• Turn off the BLUETOOTH device.
• Touch the system with the smartphone again to disconnect (NFC compatible smartphones only).

System button functions during music playback
You can operate a BLUETOOTH device that supports AVRCP. Available functions may vary depending on the BLUETOOTH device. Refer to the operating instructions supplied with the BLUETOOTH device.

Buttons	Functions
►‖ (play/pause) 7	Press once to pause/resume playback.
►►‖/‖◄◄ (forward/rewind) 9	Press once to skip to the next/previous track.
VOLUME −/+ 8	Press to adjust the volume.

Listening to Music by Wired Connection

Listening to Music via USB Connection with an iPhone/iPod
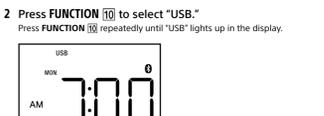
You can enjoy listening to music and play back an iPhone/iPod connected to the system via USB.
Update your device to the latest software version before use.

USB cable* (not supported)

Ψ (USB) port on the rear of the system

* USB cable: Use the Lightning to USB Cable or Dock Connector to USB Cable supplied with your iPhone/iPod.

1 Connect the iPhone/iPod to the Ψ (USB) port on the rear of the system.

2 Press FUNCTION 10 to select "USB."
Press FUNCTION 10 repeatedly until "USB" lights up in the display.

3 Start playback on the connected iPhone/iPod, then adjust the volume.
Set the volume of the connected iPhone/iPod to a moderate level, and press the VOLUME −/+ 8 on the system.

Notes
• When a USB device other than an iPhone/iPod is connected to the system, only charging begins automatically.
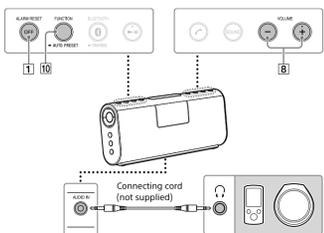• Do not connect the multiple devices to the Ψ (USB) port of the system.

After use
Press FUNCTION 10 or OFF 1 to deactivate the USB function.

System button functions during music playback

Buttons	Functions
►‖ (play/pause) 7	Press once to pause/resume playback.
►►‖/‖◄◄ (forward/rewind) 9	• Press once to skip to the next/previous track. • Press and hold to fast-forward/fast-rewind.
VOLUME −/+ 8	Press to adjust the volume.

Listening to Music by Wired Connection with a Portable Audio Device, etc.

You can enjoy sound from the external device, such as a portable digital music player, through the speaker of this system. Be sure to turn off the power of the device before making any connections.

Connecting cord (not supplied)

AUDIO IN jack (stereo mini jack) on the rear of the system

1 Connect the device to the **AUDIO IN** jack on the rear of the system.

2 Press FUNCTION 10 to select "AUDIO IN."
Press FUNCTION 10 repeatedly until "AUDIO IN" lights up in the display.

3 Start playback on the connected device, then adjust the volume.
Set the volume of the connected device to a moderate level, and press the VOLUME −/+ 8 on the system.
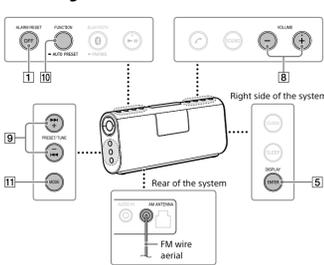
After use
Press FUNCTION 10 or OFF 1 to deactivate the AUDIO IN function. To stop playback on the connected device, operate the connected device.

Notes when connecting the device by wired connection
• The necessary type of cable or connecting cord depends on the device. Be sure to use the correct type of cable or cord.
• When you watching TV or listening to the radio with a device connected to the system, the reception may be poor.
• When you listen to the radio with a device connected, turn off the connected device to prevent noise. If noise occurs, even when the device is turned off, disconnect and place the device away from the system.

Tip
• You can use hands-free calling while the cable or connecting cord is used with this system.

Listening to Radio

Right side of the system

Rear of the system

FM wire aerial

Changing the frequency step
The frequency step differs depending on the area. The default setting of this system is 0.05 MHz for FM and 9 kHz for AM. Change the settings on the system as shown below to be able to listen to the radio.

1 Press OFF 1 to deactivate the current function.

2 Press and hold MODE 11 and DISPLAY/ENTER 5 at the same time for a few seconds.
"S 9" or "S.10" appears in the display and the frequency step is changed.
To change the frequency step again, repeat step 2.
If you select "S.9", the AM frequency step will change to 9 kHz, and the FM frequency step will change to 0.05 MHz.
If you select "S.10", the AM frequency step will change to 10 kHz, and the FM frequency step will change to 0.1 MHz.

Note
• After changing the frequency step, the AM and FM preset stations will be initialized.

Presetting the radio stations automatically - Auto preset tuning
You can preset receivable radio stations in your area automatically by auto preset tuning. You can preset up to 20 FM stations and 10 AM stations.

1 Press FUNCTION 10 to select "FM" or "AM."
Press FUNCTION 10 repeatedly until "FM" or "AM" lights up in the display.

2 Press and hold FUNCTION − AUTO PRESET 10 until "AP" begins to flash in the display.

3 Press DISPLAY/ENTER 5 .
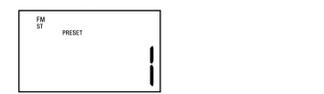Receivable radio stations will be preset automatically in order of frequency.

Tip
• To cancel auto preset tuning, press OFF 1 .

Listening to the radio from preset radio stations
You can listen to the radio simply by selecting a preset number. Although radio frequencies are preset at the factory, we recommend you to preset receivable radio stations in your area by auto preset tuning.

1 Press FUNCTION 10 to select "FM" or "AM."
Press FUNCTION 10 repeatedly until "FM" or "AM" lights up in the display.

2 Press MODE 11 to select "PRESET."

3 Press PRESET +/− 9 to select the preset number for the desired radio station.

4 Press VOLUME −/+ 8 to adjust the volume.

To display the preset number and the frequency when listening to radio
Press DISPLAY/ENTER 5 once to display the preset number, and press again to display the frequency of the current station. To return to the clock display, press DISPLAY/ENTER 5 once again; or after a few seconds the display will return automatically.

After use
Press FUNCTION 10 or OFF 1 to deactivate the radio function.

To improve reception
• For FM radio reception, extend the FM wire aerial fully to increase reception sensitivity.
• For AM radio reception, connect the supplied AM loop aerial to the system. Rotate the aerial horizontally for optimum reception.
• If stereo FM reception is noisy, press and hold MODE 11 until "MONO" lights up in the display. You will lose the stereo effect, but noise will be reduced.

Listening to the radio by manual tuning

1 Press FUNCTION 10 to select "FM" or "AM."
Press FUNCTION 10 repeatedly until "FM" or "AM" lights up in the display.

2 Press MODE 11 to select "TUNING."

3 Press and hold TUNE +/− 9 until the frequency digits begin to change quickly in the display.
The system automatically scans the radio frequencies and stops when it finds a clear station (automatic tuning mode).
If you cannot tune to a station using the automatic tuning mode, press TUNE +/− 9 repeatedly to change the frequency step by step.
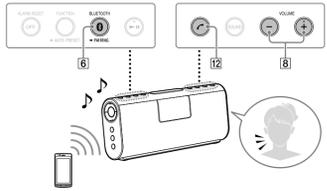When an FM stereo broadcast is received, "ST" lights up in the display.

4 Press VOLUME −/+ 8 to adjust the volume.

Note
• The frequency display is accurate to within 0.1 MHz. For example, 88.00 MHz or 88.05 MHz will be displayed as "88.0 MHz."

To preset radio stations manually
You can manually preset a radio station which cannot be preset automatically.

1 Tune to a station you want to preset.

2 Press and hold DISPLAY/ENTER 5 until "PRESET" begins to flash in the display.

3 Press PRESET +/− 9 to select the preset number, and then press DISPLAY/ENTER 5 to confirm.
The station is preset and assigned to the selected preset number.
Example: The following displays appear when you preset FM 89.8 MHz to preset number 2 for FM.

Tip
• To cancel the preset number, press OFF 1 instead of DISPLAY/ENTER 5 in step 3.

Notes on radio reception
• Do not place the AM loop aerial near the system, power supply or other A/V equipment during use, as noise may result.
• Keep digital music players or mobile phones away from the AM loop aerial or the FM wire aerial, as this may lead to reception interference.
• When you are listening to radio with a BLUETOOTH device or USB device connected to the system, interference with radio reception may occur. In this case, terminate BLUETOOTH connection, or disconnect the USB device from the system.

Tip
• You can use hands-free calling while listening to the radio on this system.

▶ Useful Functions

Using Hands-free Calling While Listening to Music

You can enjoy hands-free calling via BLUETOOTH connection with a BLUETOOTH mobile phone that has a music function and supports the BLUETOOTH profile A2DP (Advanced Audio Distribution Profile), and HFP (Hands-free Profile) or HSP (Headset Profile).
If your BLUETOOTH mobile phone supports both HFP and HSP, set to HFP.

Operations may vary depending on the BLUETOOTH mobile phone. Refer also to the operating instructions supplied with your mobile phone.

1 Make the BLUETOOTH connection between the system and the mobile phone.
For details on the BLUETOOTH connection procedure, see "How to Make Wireless Connection with BLUETOOTH Devices." The BLUETOOTH connection is established and "(BLUETOOTH)" in the display stays on.

2 Start playback on the BLUETOOTH mobile phone, then adjust the volume.
Set the volume of the BLUETOOTH mobile phone to a moderate level, and press **VOLUME −/+** 8 on the system.
When the BLUETOOTH device is connected to the system ("(BLUETOOTH)" is lit), you can use hands-free calling even if the BLUETOOTH function is not activated.
When there is an incoming call or outgoing call, the system automatically changes to the BLUETOOTH function.

To call
Operate the BLUETOOTH mobile phone. Check that a dialing tone is heard on the system and talk into the system. If no dialing tone is heard, press 📞 (call) 12 on the system for about 2 seconds to change the call device to the system.

To receive a call
When an incoming call arrives, the playback or radio pauses and a ring tone is heard from the system. Press 📞 (call) 12 on the system and talk into the system.

Tips
- If no ring tone is heard from the system when an incoming call arrives, change playback or radio and press 📞 (call) 12 to talk.
- You can use the hands-free calling when playback is completed.
- During a call, press **VOLUME −/+** 8 on the system to adjust the volume. The volume of a call and that of a playback are set separately.

Note
- When using a mobile phone, keep it 50 cm or more away from the system. If they are too close together, noise may be heard.

To end a call
Press 📞 (call) 12. If you were listening to music with any function when the call arrived, music will be resumed when the call has finished.

After use
Do any of the following to terminate the BLUETOOTH connection.
- Set the BLUETOOTH function of the BLUETOOTH device to off. For details, refer to the operating instructions supplied with the device.
- Turn off the BLUETOOTH device.
- Touch the system with the smartphone again to disconnect (NFC compatible smartphones only).

System button functions during a call
Available functions may vary depending on the BLUETOOTH mobile phone, or the profiles supported by the BLUETOOTH mobile phone. Refer to the operating instructions supplied with the BLUETOOTH mobile phone.

Status	📞 (call) 12
Standby	• Press once to start voice dial (voice dial compatible mobile phones only). • Press and hold for a few seconds to redial the phone number that is dialed last time.
Outgoing call	• Press once to cancel outgoing call. • Press and hold for a few seconds to change call device between the system and mobile phone.
Incoming call	• Press once to answer call. • Press and hold for a few seconds to reject call.
During call	• Press once to finish call. • Press and hold for a few seconds to change call device between the system and mobile phone.

Using Hands-free Calling with Another BLUETOOTH Mobile Phone While Listening to Music

You can enjoy hands-free calling with another BLUETOOTH mobile phone while listening to music with a BLUETOOTH music player.
- One-touch connection (NFC) cannot be used in this procedure.
- Operations may vary depending on the BLUETOOTH device. This type of BLUETOOTH connection may not be established depending on the combination of the BLUETOOTH devices. Refer also to the operating instructions supplied with your BLUETOOTH devices.

1 Make the BLUETOOTH connections between the system and a BLUETOOTH music player via A2DP, and between the system and a BLUETOOTH mobile phone via HFP or HSP.
For details on the BLUETOOTH connection procedure, see "How to Make Wireless Connection with BLUETOOTH Devices." The BLUETOOTH connection is established and "(BLUETOOTH)" in the display stays on.

Tips
- To use only the calling function of a BLUETOOTH mobile phone that also has a music function, establish BLUETOOTH connection between the system and the mobile phone via HFP or HSP, not via A2DP.
- Depending on the BLUETOOTH mobile phone, while the BLUETOOTH connection is established via HFP or HSP, the other BLUETOOTH connection via A2DP may also be occupied by the same BLUETOOTH mobile phone. A BLUETOOTH music player cannot be connected with this system in this case.
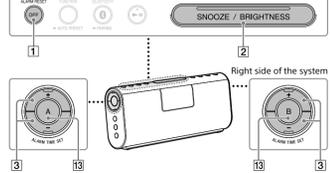
Note
- To make the same connection with the same devices after turning the system off, follow this procedure again.

Setting the Alarm

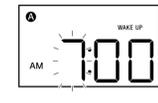- You can set the alarm mode from the following.
  — **"FM," "AM":** Set the radio alarm.
  — **"USB":** Set the alarm to sound from an iPhone/iPod via USB connection.
  — **"BLUETOOTH":** Set the alarm to sound from a BLUETOOTH device, such as smartphone, iPod, etc., via BLUETOOTH connection.
  — **"BUZZER":** Set the buzzer alarm.
- Set the clock to the current time before setting the alarm, so that the alarm will sound at the correct time. (See "Setting the clock for the first time.")

You can set alarm A and B. To set the alarm A, use A 13 and **ALARM TIME SET +/−** 3. To set alarm B, use B 13 and **ALARM TIME SET +/−** 3.
The following explains how to set the alarm A.

1 Press and hold A 13 until the hour begins to flash in the display.
"" and "WAKE UP" light up and the hour flashes in the display.

2 Press **ALARM TIME SET +/−** 3 to select the following setting items, then press A 13 to confirm.
Each time you press **ALARM TIME SET +/−** 3, the currently selected item begins to flash.
Once you confirm the setting by pressing A 13, the following setting item begins to flash.
- **Hour, minute:** Press and hold **ALARM TIME SET +/−** 3 to change the hour and minute digits quickly.
- **Days of the week:** Select one of the following three types.
  Every day: "MON TUE WED THU FRI SAT SUN"
  Week day: "MON TUE WED THU FRI"
  Weekend: "SAT SUN"

3 Press **ALARM TIME SET +/−** 3 to select the alarm mode, then press A 13 to confirm.
Select one of the following.
- **"FM," "AM":** Set the radio alarm. Proceed to step 4.
- **"USB":** Set the alarm to sound from an iPhone/iPod via USB connection. Skip step 4, and proceed to step 5.
- **"BLUETOOTH":** Set the alarm to sound from a BLUETOOTH device, such as smartphone, iPod, etc., via BLUETOOTH connection. Skip step 4, and proceed to step 5.
- **"BUZZER":** Set the buzzer alarm. The alarm setting is completed. The display returns to clock and "" lights up in the display. You do not need to do step 4 or later.

4 Press **ALARM TIME SET +/−** 3 to select the radio station, then press A 13 to confirm.
Select the desired preset number or "‑ ‑:‑ ‑" is the last station you listened to.

5 Press **ALARM TIME SET +/−** 3 to adjust the volume, then press A 13 to confirm.
The alarm setting is completed. The display returns to clock and "" lights up in the display.

6 When "USB" or "BLUETOOTH" is selected as the alarm mode, connect an iPhone/iPod via USB or a BLUETOOTH device before the alarm sounds.
If the system does not connect to the BLUETOOTH device, at the alarm time, the system tries to establish BLUETOOTH connection with the device.
If the system does not connect to the BLUETOOTH device, or does not connect to an iPhone/iPod via USB, the alarm will be the buzzer.
If you set "USB" as the alarm mode, and a smartphone is connected via USB, the alarm will be the buzzer.

To stop the alarm
Press **ALARM RESET** 1 to turn off the alarm. The alarm will sound again at the same time the next day.

To doze for a few more minutes – Snooze function
1 Press **SNOOZE** 2 once while the alarm sounds.
The alarm sound turns off but will automatically come on again after about 10 minutes.
You can change the snooze time as follows by pressing **SNOOZE** 2 repeatedly.
→ 10 → 20 → 30 →
← 60 ← 50 ← 40 ←

To stop the snooze timer, press **ALARM RESET** 1.

System button functions for the alarm function
To	Do this
Confirm an alarm time setting	Press **ALARM TIME SET +/−** 3. The setting will be displayed for about 4 seconds.
Change an alarm time setting	**1** Press and hold **ALARM TIME SET +/−** 3 until the alarm time digits begin to change in the display. You can change the alarm time step by step by pressing **ALARM TIME SET +/−** 3 repeatedly. **2** Release **ALARM TIME SET +/−** 3 when the desired alarm time is displayed.
Turn off the alarm sound once	Press **SNOOZE** 2 once while the alarm sounds.
Stop the alarm	Press **ALARM RESET** 1.
Deactivate the alarm	Press A 13 again. "" turns off in the display, and the alarm function is deactivated. To activate the alarm again, press A 13 again.

Tip
- Even if the alarm is deactivated, the alarm will be activated when you change the alarm setting.

Notes
- When "USB" or "BLUETOOTH" is selected as the alarm mode, only the buzzer alarm will sound if an iPhone/iPod is not connected via USB, or a BLUETOOTH device is not connected, or music is not stored in the device, or the device is turned off.
- The volume of the buzzer is not adjustable.
- If the same alarm time is set for both alarm A and B, alarm A takes priority.
- If no operation is performed while the alarm is sounding, the alarm will stop after about 60 minutes.

Notes on the alarm in the event of a power interruption
In the event of a power interruption, the buzzer alarm will last about 5 minutes if the battery is not weak. However, certain functions will be affected as follows:
- The backlight will not light up.
- If the alarm mode is set to "USB," "BLUETOOTH," "FM" or "AM," it will change to buzzer automatically.
- If **ALARM RESET** 1 is not pressed, the alarm will sound for about 5 minutes.
- If "" lights up in the display, the alarm will not sound in the event of a power interruption. Replace the battery if "" lights up.
- The snooze function cannot be set during a power interruption.
- During a power interruption, each alarm will sound at the set time only once.

Setting the Sleep Timer

You can fall asleep listening to radio or music from the connected device using the sleep timer. The system stops radio or playback automatically after a preset duration.

1 Press **SLEEP** 14 while listening to radio or music.
"SLEEP" lights up and the sleep time duration begins to flash in the display.

2 Press **SLEEP** 14 to select the sleep time duration.
You can change the sleep time duration (in minutes) as follows by pressing **SLEEP** 14 repeatedly. Only "OFF" does not flash.

→ 90 → 60 → 30 → 15
← OFF ←

The sleep time duration flashes for a few seconds, then the display returns to the clock. The sleep timer setting is completed and the sleep timer starts. "SLEEP" lights up in the display, and the system will stop radio or playback automatically after the setting duration.

To stop listening before the preset time
Press **OFF** 1.

To change the sleep timer setting
Press **SLEEP** 14. You can change the sleep time duration after the sleep timer has been activated.

To deactivate the sleep timer
Press **SLEEP** 14 to select "OFF."

Notes
- Music playback on a device connected to the **AUDIO IN** jack does not stop automatically. To stop playback on the connected device, operate the connected device.
- When the alarm time is set during the sleep timer duration, the sleep timer will be deactivated automatically when the alarm sounds.

To Enjoy the Sound Effect Setting

1 Press **SOUND** 15 to select the sound effect.
The sound effect setting lights up in the display.

You can change the sound effect as follows by pressing **SOUND** 15 repeatedly.

Display	Sound effect
MEGA BASS	High-quality bass sound will be heard.
MEGA BASS MEGA Xpand	Both high-quality bass and surround sound will be heard.
MEGA Xpand	Surround sound will be heard.
Off	The sound effect is off.

▶ Others

Replacing the Battery

1 Keep the AC plug connected to the wall outlet, then open the battery compartment on the bottom of the system.

1 Fully loosen the screw.

2 Push the tab and pull up the lid.

2 Remove the old battery and insert a new one in the battery compartment with the ⊕ side facing up.

CR2032

3 Replace the battery compartment lid and tighten the screw.

4 Press **FUNCTION, BLUETOOTH** or **SNOOZE/ BRIGHTNESS** on the system to turn off "" in the display.

Notes
- When you replace the battery, do not disconnect the plug from the AC outlet. Otherwise, the current date, current time, alarm and station presets will be erased.
- If you are not going to use the system for a long time, remove the battery to avoid any damage that may be caused by leakage or corrosion.

Setting the Brightness of the Display

1 Press **BRIGHTNESS** 2.
You can change the four levels of brightness as follows by pressing **BRIGHTNESS** 2 repeatedly.

High (default) ——→ Off
↑ ↓
Middle ←—— Low

Even if brightness level is set to Off, it will change to Low while the alarm is sounding.
Press and hold **BRIGHTNESS** 2 to turn off the display directly.

Specifications

Time display
Switching between 24-hour system (default) and 12-hour system.

Speaker section
Speaker system 50 mm
Enclosure type Bass reflex

Amplifier section
Reference output power
2 W + 2 W (10 % T.H.D., 1 kHz, 5 Ω)
Input Stereo mini jack × 1

USB section
Input USB port (type A)
Supported sampling frequencies/bit
USB input: Maximum 44.1 kHz/16 bit

BLUETOOTH
Communication System
BLUETOOTH Specification version 3.0
Output BLUETOOTH Specification Power Class 2
Maximum communication range
Line of sight approx. 10 m[*1]
Frequency band 2.4 GHz band (2.4000 GHz - 2.4835 GHz)
Modulation method
FHSS
Compatible BLUETOOTH Profiles[*2]
A2DP (Advanced Audio Distribution Profile)
AVRCP (Audio Video Remote Control Profile)
HSP (Headset Profile)
HFP (Hands-free Profile)
SPP (Serial Port Profile)
Supported Codec[*3]
SBC[*4]
Transmission range (A2DP)
20 Hz - 20,000 Hz (Sampling frequency 44.1 kHz)

[*1] The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, aerial's performance, operating system, software application, etc.
[*2] BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.
[*3] Codec: Audio signal compression and conversion format
[*4] Subband Codec

Microphone
Type: Electret condenser
Direction characteristic:
Omni directional
Effective frequency range:
200 Hz – 3,600 Hz

Radio
Frequency range
Band	Frequency	Frequency step
FM	87.5 MHz - 108 MHz	0.05 MHz
	87.5 MHz - 108 MHz	0.1 MHz
AM	531 kHz - 1,602 kHz	9 kHz
	530 kHz - 1,610 kHz	10 kHz

General
Power 230 V AC, 50 Hz, 16 W
For clock back up 3V DC, CR2032 battery (1)
Dimensions Approximately 281 mm × 126 mm × 80 mm (w/h/d)
Mass Approximately 1.3 kg including batteries
Supplied accessories
AM loop aerial (1)
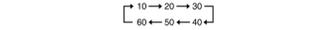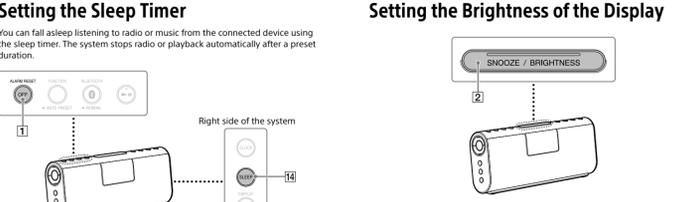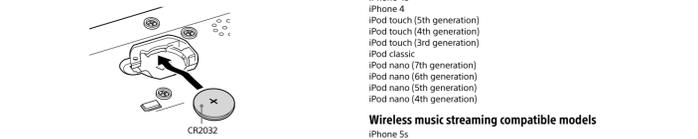BLUETOOTH Startup Guide (1)
Operating Instructions (this document) (1)

Compatible iPhone/iPad/iPod models
The compatible iPhone/iPad/iPod models are as follows.
Update the software of the iPhone/iPad/iPod to the latest version before using it with this system.

USB works with
iPhone 5s
iPhone 5c
iPhone 5
iPhone 4s
iPhone 4
iPod touch (5th generation)
iPod touch (4th generation)
iPod touch (3rd generation)
iPod classic
iPod nano (7th generation)
iPod nano (6th generation)
iPod nano (5th generation)
iPod nano (4th generation)

Wireless music streaming compatible models
iPhone 5s
iPhone 5c
iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPad Air
iPad mini with Retina display
iPad (4th generation)
iPad mini
iPad (3rd generation)
iPad 2
iPad
iPod touch (5th generation)
iPod touch (4th generation)
iPod touch (3rd generation)
iPod nano (7th generation)

Design and specifications are subject to change without notice.

What is BLUETOOTH wireless technology?

BLUETOOTH wireless technology is a short-range wireless technology that enables wireless data communication between digital devices, such as a computer and digital camera. BLUETOOTH wireless technology operates within a range of about 10 m.
Connecting two devices as necessary is common, but some devices can be connected to multiple devices at the same time.
You do not need to use a cable for connection, nor is it necessary for the devices to face one another, such is the case with infrared technology. For example, you can use such a device in a bag or pocket.
BLUETOOTH standard is an international standard supported by thousands of companies all over the world, and employed by various companies worldwide.

Communication System and Compatible BLUETOOTH Profiles of the system
Profile is standardisation of the function for each BLUETOOTH device specification.
The system supports the following BLUETOOTH version and profiles:
Communication System:
BLUETOOTH Specification version 3.0
Compatible BLUETOOTH Profiles:
— A2DP (Advanced Audio Distribution Profile): Transmitting or receiving audio content of high-quality.
— AVRCP (Audio Video Remote Control Profile): Controlling A/V equipment; pausing, stopping, or starting playback, etc.
— HSP (Headset Profile): Talking on the phone/Operating the phone.
— HFP (Hands-free Profile): Talking on the phone/Operating the phone by hands-free.
— SPP (Serial Port Profile): Establishing serial communication with BLUETOOTH device.

Maximum communication range
Use BLUETOOTH devices within 10 m (line of sight) of the system.
Maximum communication range may shorten under the following conditions.
— There is an obstacle such as a person, metal, or wall between the system and BLUETOOTH device.
— A wireless LAN device is in use near the system.
— A microwave oven is in use near the system.
— A device that generates electromagnetic radiation is in use near the system.

Interference from other devices
Because BLUETOOTH devices and wireless LAN (IEEE802.11b/g) use the same frequency, microwave interference may occur and resulting in communication speed deterioration, noise, or invalid connection if the system is used near a wireless LAN device. In such a case, perform the following.
— Use the system at least 10 m away from the wireless LAN device.
— If the system is used within 10 m of a wireless LAN device, turn off the wireless LAN device.

Interference to other devices
Microwaves emitting from a BLUETOOTH device may affect the operation of electronic medical devices. Turn off the system and other BLUETOOTH devices in the following locations, as it may cause an accident.
— where inflammable gas is present, in a hospital, train, airplane, or a gas station
— near automatic doors or a fire alarm

Notes
- To be able to use the BLUETOOTH function, the BLUETOOTH device to be connected requires the same profile as the system's. Note also that even if the same profile exists, devices may vary in function depending on their specifications.
- Due to the characteristic of BLUETOOTH wireless technology, the sound played on the system is slightly delayed from the sound played on the BLUETOOTH device during talking on the telephone or listening to the music.
- This system supports security capabilities that comply with the BLUETOOTH standard to provide a secure connection when the BLUETOOTH wireless technology is used, but security may not be enough depending on the setting. Be careful when communicating using BLUETOOTH wireless technology.
- We do not take any responsibility for the leakage of information during BLUETOOTH communication.
- A device featuring the BLUETOOTH function is required to conform to the BLUETOOTH standard specified by Bluetooth SIG, and be authenticated. Even if the connected device conforms to the above mentioned BLUETOOTH standard, some devices may not be connected or work correctly, depending on the features or specifications of the device.
- Noise or sound skips may occur depending on the BLUETOOTH device connected with the system, the communication environment or the usage environment.

Troubleshooting

No sound / Sound from only one speaker / Low sound level

ON
Check that both this system and the connected device are turned on.

Check that the connected device is being played back.

If you are connecting a personal computer to the system, make sure the audio output setting of the computer is set for a BLUETOOTH device.

If the connected device is monaural, sound will only be output from the left speaker.

Turn up the volume of the system and the connected device.

Check that both plugs of the connecting cord (not supplied) or both connectors of the USB cable (not supplied) are firmly inserted into the system and the connected device.

Check that the function for the connected device ("BLUETOOTH," "USB" or "AUDIO IN") is activated.

Distorted sound / Humming or noise in the system output

Turn down the volume of the system and the connected device.

Keep the system away from a microwave oven, wireless LAN, etc.

Keep the system away from a TV.

If you connect a device with a built-in radio or tuner to this system, broadcasts may not be received, or sensitivity may be reduced. Locate the system farther away from the device and check that you can listen to the broadcasts satisfactorily.

EQ OFF
If the connected device has an equalizer function, set it to off.

Bring this system and the BLUETOOTH device closer together. Remove any obstacle between this system and the BLUETOOTH device.

A2DP
Switch the BLUETOOTH connection to A2DP by operating the BLUETOOTH device when HFP or HSP is set.

For BLUETOOTH devices: Pairing is not possible

1m
Bring this system and the BLUETOOTH device to within 1 m of each other.

If the (BLUETOOTH) indicator is not flashing quickly, press and hold BLUETOOTH → PAIRING on the system until beeps are heard.

For BLUETOOTH devices: No voice / Low voice from recipient

ON
Check that both this system and the connected device are turned on.

HFP/HSP
Select HFP or HSP BLUETOOTH connection by operating the BLUETOOTH device.

Check that output of the BLUETOOTH mobile phone is set for the system.

Turn up the volume of the system and the connected device.

For BLUETOOTH devices: One-touch connection (NFC) is not possible

NFC ON
Keep the smartphone close to the system until the smartphone responds. If you fail, move the smartphone slightly on the N marked part of the system.

Check that the NFC function of the smartphone is set to on.

NFC App
Check that the "NFC Easy Connect" app is displayed on the smartphone.

If the smartphone is in a case, remove it.

NFC App
NFC receiving sensitivity depends on the device. If you fail to connect with a smartphone by One touch several times, connect to the system by on-screen operation.

Alarm does not sound

Check that the alarm indication "" or "" is properly displayed.

Check that the device set for the alarm is connected to the system.

Clock is not displayed correctly

NEW
When the clock flashes "AM 12:00" or "0:00" due to a power interruption, replace the battery with a new one.