# SONY

4-468-398-**13**(1)

# Personal Audio System

Operating Instructions

Made for
iPod  iPhone

AUTO TIME SET

NO POWER
NO PROBLEM

N  Bluetooth®

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

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ICF-CS20BT

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**English**   Personal Audio System

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

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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.

## Precautions

### Note when using with a mobile phone

When using your mobile phone when receiving a telephone call while transmitting the sound using the BLUETOOTH connection, refer to the operating instructions supplied with the mobile phone.

### 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.

### 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
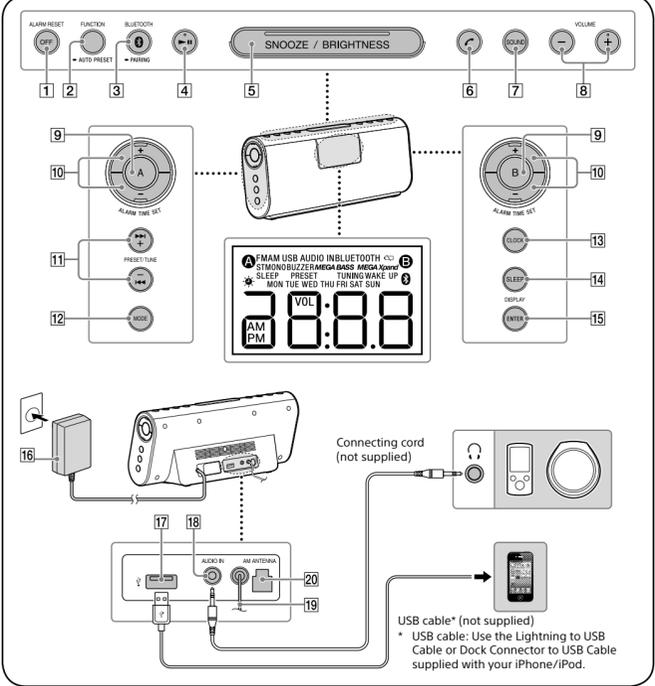
1  Plug the AC plug 16 into a wall outlet firmly.

## 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)

### Note for customers in Europe

The clock is preset at the factory, and its memory is powered by the preinstalled Sony CR2032 battery. If "0:00" appears in the display when the system is connected to a wall outlet for the first time, the battery may be weak. In this case, consult a Sony dealer. The preinstalled CR2032 battery is considered part of the product, and is covered by the warranty. You are required to show "Note for customers in Europe" (in this instruction) to a Sony dealer in order to validate the warranty for this product.

### Note for customers in the UK

The clock is preset at the factory, and its memory is powered by the preinstalled Sony CR2032 battery. If the "AM 12:00" appears in the display when the system is connected to a wall outlet for the first time, the battery may be weak. In this case, consult a Sony dealer. The preinstalled CR2032 battery is considered part of the product, and is covered by the warranty. You are required to show "Note for customers in the UK" (in this instruction) to a Sony dealer in order to validate the warranty for this product.

## 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.

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## Setting the Clock

### Setting the clock for the first time

This system is preset to the current date and time at the factory, and is powered by a backup battery. All you need to do the first time is just plug it in and select your time zone.

1  Plug in the system.
The current date and time appear in the display.

2  Press and hold OFF 1 and CLOCK 13 until area number "0" or "1" begins to flash in the display.

3  Press ALARM TIME SET +/– 10 to select the number as follows:

| Area number | Time zone |
|---|---|
| 0 (default setting for customers in the UK) | Western European Time/ Western European Summer Time |
| 1 (default setting for customers in Europe) | Central European Time/ Central European Summer Time |
| 2 | Eastern European Time/ Eastern European Summer Time |
| 3 | Moscow Standard Time |
| 4 | Gulf Standard Time |
| 5 | Hong Kong Time |

4  Press DISPLAY/ENTER 15 to confirm.

### Notes

- To cancel the time zone setting, press OFF 1 instead of DISPLAY/ENTER 15 in step 4.
- Though the clock is preset at the factory, discrepancies may arise during transport or storage. If necessary, set the clock to the correct time by referring to "Setting the clock manually."
- Only customers in the UK can set the system to Gulf Standard Time or Hong Kong Time.

### When daylight saving time (DST/summer time) begins

This system automatically adjusts for daylight saving time (summer time).

"☀" lights up from the beginning of daylight saving time (summer time) and turns off at the end of the daylight saving time (summer time) automatically.

Auto DST/summer time adjustment is based on GMT (Greenwich Mean Time).

**Area number 0:**
- Daylight saving time (summer time) begins at: 1:00 AM on the final Sunday of March.
- Standard time begins at: 2:00 AM on the final Sunday of October.

**Area number 1:**
- Daylight saving time (summer time) begins at: 2:00 AM on the final Sunday of March.
- Standard time begins at: 3:00 AM on the final Sunday of October.

**Area number 2:**
- Daylight saving time (summer time) begins at: 3:00 AM on the final Sunday of March.
- Standard time begins at: 4:00 AM on the final Sunday of October.

### To cancel Auto DST/summer time adjustment during the daylight saving time (summer time) period

The Auto DST/summer time adjustment can be cancelled.

While the clock is displayed, press and hold OFF 1 and DISPLAY/ENTER 15 until "☀" and "OFF" light up in the display. Auto DST/summer time adjustment has been cancelled, then the display returns to the clock.

To activate Auto DST/summer time adjustment again, press and hold OFF 1 and DISPLAY/ENTER 15 until "☀" and "On" light up in the display.

### Note

- Changes to Auto DST/summer time adjustment by the system (see above) are subject to circumstances and laws in each country/region. Should this interfere with desired adjustment, cancel the Auto DST/summer time adjustment and set the DST display manually as necessary. Customers living in a country/region that does not use daylight saving time (summer time) must cancel Auto DST/summer time adjustment before using the system.

### Note on Moscow Standard Time, Gulf Standard Time, and Hong Kong time

When Moscow Standard Time, Gulf Standard Time, or Hong Kong time is set, Auto DST/ summer time adjustment defaults to off. If you wish, you can turn it on by the above operation. The beginning and the end of daylight saving time (summer time) will be the same as area number 1.

### Setting the clock manually

To change the clock setting manually, operate the system as follows.

1  Plug in the system.

2  Press and hold CLOCK 13 until the year digits begin to flash in the display.

3  Press ALARM TIME SET +/– 10 to select the year, and then press CLOCK 13 to confirm.
Press and hold ALARM TIME SET +/– 10 to change the year digits quickly.
Once you confirm the setting by pressing CLOCK 13, the month digits begin to flash.

4  Repeat step 3 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.

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- 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
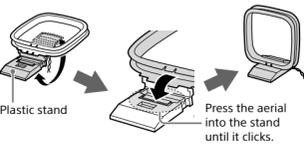
### To change the time format

You can choose the displayed time format between the 24-hour system (default for customers in Europe) or the 12-hour system (default for customers in the UK).
Press and hold OFF 1 and SNOOZE/BRIGHTNESS 5 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 13 once to display the date and month, and press again to display the year. To return to the current time display, press CLOCK 13 once again; or after a few seconds the display will return automatically.

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## 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 20 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.

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## 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.
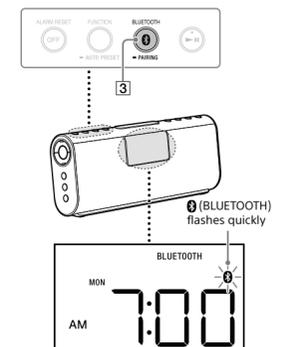**For details about NFC, see "About NFC" in Pattern C .**

### 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 ❸ BLUETOOTH – PAIRING 3 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 ❸ BLUETOOTH – PAIRING 3, "❽ (BLUETOOTH)" starts flashing quickly in the display.

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# [Center column — device illustrations]

ALARM RESET  OFF  FUNCTION  BLUETOOTH  SNOOZE / BRIGHTNESS  VOLUME

FM AM USB AUDIO IN BLUETOOTH
STMONOBUZZER MEGA BASS MEGA WAKE UP
SLEEP  PRESET  TUNING WAKE UP
MON TUE WED THU FRI SAT SUN
VOL
AM
PM
88:88

Connecting cord (not supplied)

USB cable* (not supplied)
* USB cable: Use the Lightning to USB Cable or Dock Connector to USB Cable supplied with your iPhone/iPod.

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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 5 or more devices.
    The system can be paired with up to 4 BLUETOOTH devices. If a new device is paired after 4 devices have been paired, the device whose latest connection time is the oldest among the 4 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 ❸ BLUETOOTH 3 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 Europe
Access the following Web site for details:
http://support.sony-europe.com

### 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.
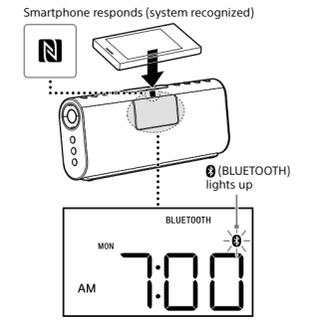
By the two-dimensional code:
Use a two-dimensional code reader app.

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

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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)

N

❽ (BLUETOOTH) lights up

BLUETOOTH
MON
AM  7:00

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 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) 4 | Press once to pause/resume playback. |
| ►►❙/❙◄◄ (forward/rewind) 11 | 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.

1  Connect the iPhone/iPod to the ⚏ (USB) port 17 on the rear of the system using the USB cable* (not supplied).

2  Press FUNCTION 2 to select "USB."
Press FUNCTION 2 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.
* USB cable: Use the Lightning to USB Cable or Dock Connector to USB Cable supplied with your iPhone/iPod.

### 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 ⚏ (USB) port 17 of the system.

### After use

Press FUNCTION 2 or OFF 1 to deactivate the USB function.

### System button functions during music playback

| Buttons | Functions |
|---|---|
| ►❙❙ (play/pause) 4 | Press once to pause/resume playback. |
| ►►❙/❙◄◄ (forward/rewind) 11 | • Press once to skip to the next/previous track.<br>• 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.

1  Connect the device to the AUDIO IN jack 18 on the rear of the system using the connecting cord (not supplied).

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2  Press FUNCTION 2 to select "AUDIO IN."
Press FUNCTION 2 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 2 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

### 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 2 to select "FM" or "AM."
Press FUNCTION 2 repeatedly until "FM" or "AM" lights up in the display.

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

3  Press DISPLAY/ENTER 15.
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 2 to select "FM" or "AM."
Press FUNCTION 2 repeatedly until "FM" or "AM" lights up in the display.

2  Press MODE 12 to select "PRESET."

3  Press PRESET +/– 11 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 15 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 15 once again; or after a few seconds the display will return automatically.

### After use

Press FUNCTION 2 or OFF 1 to deactivate the radio function.

### To improve reception

- For FM radio reception, extend the FM wire aerial 19 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 12 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 2 to select "FM" or "AM."
Press FUNCTION 2 repeatedly until "FM" or "AM" lights up in the display.

2  Press MODE 12 to select "TUNING."

3  Press and hold TUNE +/– 11 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 +/– 11 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.

### 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 15 until "PRESET" begins to flash in the display.

3  Press PRESET +/– 11 to select the preset number, and then press DISPLAY/ENTER 15 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.

FM ST  PRESET  2

FM ST  PRESET  89.8

### Tip

- To cancel the preset number, press OFF 1 instead of DISPLAY/ENTER 15 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 19, 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 "❸ (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 ("❸ (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) 6 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) 6 on the system and talk into the system.

**Tips**
- If no ring tone is heard from the system when an incoming call arrives, stop playback or radio and press 📞 (call) 6 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) 6. If you were listening to music with any function when the call ended, 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) 6 |
|---|---|
| Standby | • Press once to start voice dial (voice dial compatible mobile phones only). <br>• 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. <br>• Press and hold for a few seconds to change call device between the system and mobile phone. |
| Incoming call | • Press once to answer call. <br>• Press and hold for a few seconds to reject call. |
| During call | • Press once to finish call. <br>• 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 "❸ (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** 9 and **ALARM TIME SET** +/– 10. To set alarm B, use **B** 9 and **ALARM TIME SET** +/– 10.
The following explains how to set the alarm A.

**1** Press and hold **A** 9 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** +/– 10 to select the following setting items, then press **A** 9 to confirm.
Each time you press **ALARM TIME SET** +/– 10, the currently selected item begins to flash.
Once you confirm the setting by pressing **A** 9, the following setting item begins to flash.
- **Hour, minute:** Press and hold **ALARM TIME SET** +/– 10 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** +/– 10 to select the alarm mode, then press **A** 9 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** +/– 10 to select the radio station, then press **A** 9 to confirm.
Select the desired preset number or "- -," "- -" is the last station you listened to.

**5** Press **ALARM TIME SET** +/– 10 to adjust the volume, then press **A** 9 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 BLUETOOTH device connected to the system last time.
If the system cannot 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** 5 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** 5 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** +/– 10. The setting will be displayed for about 4 seconds. |
| Change an alarm time setting | **1** Press and hold **ALARM TIME SET** +/– 10 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** +/– 10 repeatedly. <br>**2** Release **ALARM TIME SET** +/– 10 when the desired alarm time is displayed. |
| Turn off the alarm sound once | Press **SNOOZE** 5 once while the alarm sounds. |
| Stop the alarm | Press **ALARM RESET** 1. |
| Deactivate the alarm | Press **A** 9 again. "🕐" turns off in the display, and the alarm function is deactivated. To activate the alarm again, press **A** 9 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.
- When Auto DST/summer time adjustment is set, the alarm sounds as follows:
  —If the alarm is set to a time that is skipped as a result of daylight saving time starting, the alarm will sound when daylight saving time is applied.
  —If the alarm is set to a time that is doubled as a result of daylight saving time ending, the alarm will sound twice.
- 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 18 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
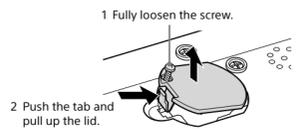
**1** Press **SOUND** 7 to select the sound effect.
The sound effect setting lights up in the display. You can change the sound effect as follows by pressing **SOUND** 7 repeatedly.

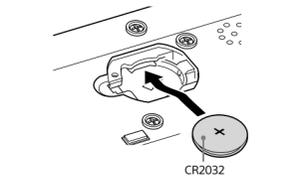| Display | Sound effect |
|---|---|
| MEGA BASS | High-quality bass sound will be heard. |
| MEGA BASS MEGA Xpand | Both high-quality bass and surround sound will be heard. |
| MEGA Xpand | Surround sound will be heard. |
| Off | The sound effect is off. |

# ► Others

## Replacing the Battery

**1** Keep the AC plug 16 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** 2, ❸ **BLUETOOTH** 3 or **SNOOZE/BRIGHTNESS** 5 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 setting 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** 5.
You can change the four levels of brightness as follows by pressing **BRIGHTNESS** 5 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** 5 to turn off the display directly.

## Specifications

### Time display
Switching between 24-hour system (default for customers in Europe) or the 12-hour system (default for customers in the UK).

### Speaker section
Speaker system: 50 mm (2 in)
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 |
| AM | 531 kHz - 1,602 kHz | 9 kHz |

### General
Power: AC 230 V, 50 Hz, 16 W
For clock back up: 3 V DC, CR2032 battery (1)
Dimensions: Approximately 281 mm × 126 mm × 80 mm
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 nano (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. | Turn up the volume of the system and the connected device. |
| Check that the connected device is being played back. | 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. |
| 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. | PAIRING — Pair this system and the BLUETOOTH device again. |
| If the connected device is monaural, sound will only be output from the left speaker. | FUNCTION BLUETOOTH — 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. | EQ OFF — If the connected device has an equalizer function, set it to off. |
| Keep the system away from a microwave oven, wireless LAN, etc. | Bring this system and the BLUETOOTH device closer together. Remove any obstacle between this system and the BLUETOOTH device. |
| Keep the system away from a TV. | A2DP — Switch the BLUETOOTH connection to A2DP by operating the BLUETOOTH device when HFP or HSP is set. |
| 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. | |

### For BLUETOOTH devices: Pairing is not possible

| | |
|---|---|
| 1m — Bring this system and the BLUETOOTH device to within 1 m of each other. | If the ❸ (BLUETOOTH) indicator is not flashing quickly, press and hold ❸ 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. | Check that output of the BLUETOOTH mobile phone is set for the system. |
| HFP/HSP — Select HFP or HSP BLUETOOTH connection by operating the BLUETOOTH device. | Turn up the volume of the system and the connected device. |

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

| | |
|---|---|
| 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. | NFC ON — 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. | If the clock does not employ the daylight saving time (summer time) automatically, press and hold **OFF** and **DISPLAY/ENTER** until "☀" and "On" light up in the display. |