

Personal Audio System

Operating Instructions



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.



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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No Power No Problem is a trademark of Sony Corporation. Auto Time Set is a trademark of Sony Corporation. Other trademarks and trade names are those of their respective owners.

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, iPod 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.

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 mobile phone.

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.

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 as 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 standardization 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:

- AZDP (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.
- SP (Serial Port Profile): Establishing serial communication with BLUETOOTH device.

Getting Started

Connecting to a Power Source

- 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, "LO" lights up in the display. If a power interruption occurs while the battery is weak, the current time and alarm will be erased.

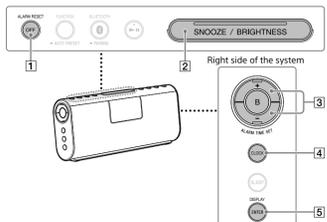
Replace the battery with a Sony CR2032 lithium battery. Use of another battery may cause a fire or explosion.

To replace the battery, see "Replacing the Battery" for details.

Note

- If "AM 12:00" flashes in the display when the system is connected to an AC outlet for the first time, the battery may be weak. In this case, consult your nearest Sony dealer.

Setting the Clock



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 spikes may occur depending on the BLUETOOTH device connected with the system, the communication environment or the usage environment.

Setting the clock for the first time

This system is preset to the current GST (Gulf Standard 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.

- Plug in the system.

The current GST (Gulf Standard Time) lights up in the display.

- Press and hold **OFF** [1] and **CLOCK** [4] until area number "4" begins to flash in the display.

- Press **ALARM TIME SET +/-** [3] to select the number as follows:

Area number	Time zone
0	Western European Time/Western European Summer Time
1	Central European Time/Central European Summer Time
2	Eastern European Time/Eastern European Summer Time
3	Eastern Africa Time
4 (default setting)	Gulf Standard Time

- Press **DISPLAY/ENTER** [5] to confirm.

- To cancel the time zone setting, press **OFF** [1] instead of **DISPLAY/ENTER** [5] in step 4.
- Though the clock is correctly set 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."

To activate/cancel Auto DST/summer time adjustment

When Auto DST/summer time adjustment is activated, this system automatically adjusts for daylight saving time (summer time).

When Western European Time, Central European Time, or Eastern European Time is set, Auto DST/summer time adjustment defaults to on.

To activate Auto DST/summer time adjustment, while the clock is displayed, press and hold **OFF** [1] and **DISPLAY/ENTER** [5] until "M" and "On" light up in the display. Auto DST/summer time adjustment has been activated, then the display returns to the clock.

To cancel Auto DST/summer time adjustment, while the clock is displayed, press and hold **OFF** [1] and **DISPLAY/ENTER** [5] until "M" and "Off" 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.

When daylight saving time (DST/summer time) begins

When Auto DST/summer time adjustment is activated, this system automatically adjusts for daylight saving time (summer time).

"M" 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.

When the system is set to Eastern Africa Time or Gulf Standard Time, 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.

- Plug in the system.

- Press and hold **CLOCK** [4] until the year digits begin to flash in the display.

- 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.

- 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.
- A 100-year calendar (2013 - 2122) 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 12-hour system (default) or the 24-hour system.

Press and hold **OFF** [1] and **SNOOZE/BRIGHTNESS** [2] for about 2 seconds. The time format toggles between the 12-hour system ("AM 12:00" = midnight) and the 24-hour system ("10:00" = midnight).

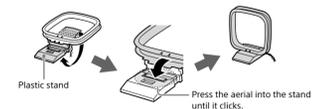
To display the year and date

While the clock is displayed, press **CLOCK** [4] once to display the date and month, 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.

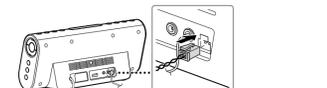
Connecting the AM Loop Aerial

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

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



- 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 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.

Choose one of the following three connection methods, best suited for the BLUETOOTH device. 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

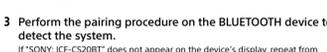
- Set the BLUETOOTH function of the BLUETOOTH device to ON.

For details, refer to the operating instructions supplied with the device.

- Press and hold **OFF** [1] and **PAIRING** [6] on the system until beeps are heard and "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 **BLUETOOTH = PAIRING** [6], "BLUETOOTH" starts flashing quickly in the display.



- 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.

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

If "Passcode" input is required on the display of the BLUETOOTH device, input "0000."

The BLUETOOTH connection is established and "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 "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

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

Tips

- When **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 "BLUETOOTH" in the display stays on.

* When "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.

- 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: AZDP, 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 "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.

- Set the NFC function of the smartphone to on.

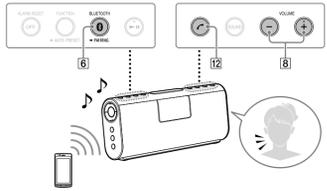
For

► 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 **⓪** (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 +/-** (**Ⓜ**) on the system.

When the BLUETOOTH device is connected to the system (**⓪** 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) (**Ⓜ**) on the system for about 2 seconds to change the call 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) (**Ⓜ**) 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) (**Ⓜ**) to talk.
- You can use the hands-free calling when playback is completed.
- During a call, press **VOLUME +/-** (**Ⓜ**) 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) (**Ⓜ**). 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) (Ⓜ)
Standby	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">Press once to answer call. Press and hold for a few seconds to reject call.
During call	<ul style="list-style-type: none">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 **⓪** (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

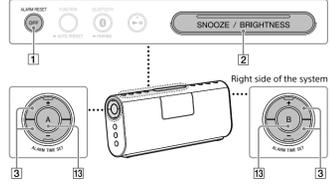
- To make the same connection with the same devices after turning the system off, follow this procedure again.

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** (**Ⓜ**) and **ALARM TIME SET +/-** (**Ⓜ**). To set alarm B, use **B** (**Ⓜ**) and **ALARM TIME SET +/-** (**Ⓜ**).

The following explains how to set the alarm A.

1 Press and hold **A** (**Ⓜ**) until the hour begins to flash in the display.

- ⓪** and "WAKE UP" light up and the hour flashes in the display.



2 Press **ALARM TIME SET +/-** (**Ⓜ**) to select the following setting items, then press **A** (**Ⓜ**) to confirm.

Each time you press **ALARM TIME SET +/-** (**Ⓜ**), the currently selected item begins to flash.

- Hour, minute:** Press and hold **ALARM TIME SET +/-** (**Ⓜ**) 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 +/-** (**Ⓜ**) to select the alarm mode, then press **A** (**Ⓜ**) 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 **⓪** lights up in the display. You do not need to do step 4 or later.

4 Press **ALARM TIME SET +/-** (**Ⓜ**) to select the radio station, then press **A** (**Ⓜ**) to confirm.

Select the desired preset number or "...". "-" is the last station you listened to.

5 Press **ALARM TIME SET +/-** (**Ⓜ**) to adjust the volume, then press **A** (**Ⓜ**) to confirm.

The alarm setting is completed. The display returns to clock and **⓪** 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** (**Ⓜ**) 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** (**Ⓜ**) 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** (**Ⓜ**) repeatedly.



To stop the snooze timer, press **ALARM RESET** (**Ⓜ**).

System button functions for the alarm function

To	Do this
Confirm an alarm time setting	Press ALARM TIME SET +/- (Ⓜ). The setting will be displayed for about 4 seconds.
Change an alarm time setting	<ol style="list-style-type: none">Press and hold ALARM TIME SET +/- (Ⓜ) 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 +/- (Ⓜ) repeatedly. Release ALARM TIME SET +/- (Ⓜ) when the desired alarm time is displayed.
Turn off the alarm sound once	Press SNOOZE (Ⓜ) once while the alarm sounds.
Stop the alarm	Press ALARM RESET (Ⓜ).
Deactivate the alarm	Press A (Ⓜ) again. ⓪ turns off in the display, and the alarm function is deactivated. To activate the alarm again, press A (Ⓜ) 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 times 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.

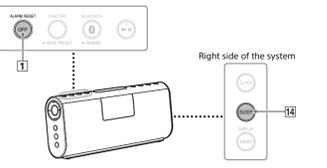
Notes on the alarm in the event of a power interruption

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.
- ALARM RESET** (**Ⓜ**) is not pressed, the alarm will sound for about 5 minutes.
- If "⓪" lights up in the display, the alarm will not sound in the event of a power interruption. Replace the battery if "⓪" 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** (**Ⓜ**) while listening to radio or music.

"SLEEP" lights up and the sleep time duration begins to flash in the display.

2 Press **SLEEP** (**Ⓜ**) to select the sleep time duration.

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

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** (**Ⓜ**).

To change the sleep timer setting

Press **SLEEP** (**Ⓜ**). You can change the sleep time duration after the sleep timer has been activated.

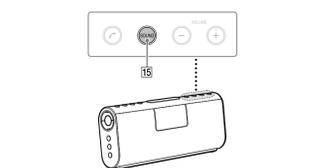
To deactivate the sleep timer

Press **SLEEP** (**Ⓜ**) to select "OFF."

Notes

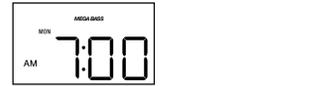
- Music playback on a device connected to the **AUDIO IN** jack does not stop automatically. To stop playback on the connected device, operate the connected device.
- When the alarm time is set during the sleep timer duration, the sleep timer will be deactivated automatically when the alarm sounds.

To Enjoy the Sound Effect Setting



1 Press **SOUND** (**Ⓜ**) to select the sound effect.

The sound effect setting lights up in the display.



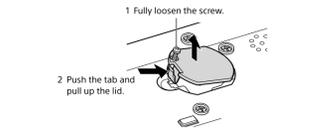
You can change the sound effect as follows by pressing **SOUND** (**Ⓜ**) repeatedly.

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.

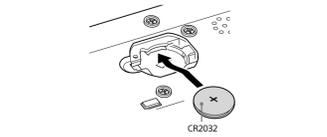
► Others

Replacing the Battery

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



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



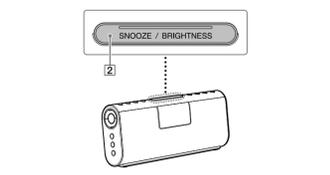
3 Replace the battery compartment lid and tighten the screw.

4 Press **FUNCTION**, **⓪** BLUETOOTH or **SNOOZE/BRIGHTNESS** on the system to turn off "⓪" 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** (**Ⓜ**).

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.

You can change the four levels of brightness as follows by pressing **BRIGHTNESS** (**Ⓜ**) repeatedly.

High (default) → Off
 ↑
 Middle → Low
 ↓
 OFF

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

Specifications

Time display

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

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*
 Frequency band 2.4 GHz band (2.4000 GHz - 2.4835 GHz)
 Modulation method FHSS
 Compatible BLUETOOTH Profiles**

- AZDP (Advanced Audio Distribution Profile)
- AVRCP (Audio Video Remote Control Profile)
- HSP (Headset Profile)
- HFP (Hands-free Profile)
- SPP (Serial Port Profile)

 Supported Codec**

- SBC*
- MP3

 Transmission range (A2DP)

- 20 kHz - 20,000 kHz (Sampling frequency 44.1 kHz)

* 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.

- BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.
- Codec: Audio signal compression and conversion format
- ** Subband Codec

Microphone

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

Radio

Band	Frequency	Frequency step
FM	87.5 MHz - 108 MHz	0.05 MHz
AM	531 kHz - 1,602 kHz	9 kHz

General

Power AC 220 V - 240 V, 50 Hz/60 Hz, 16 W
 For clock back up 3 V 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
 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.

Troubleshooting



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



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.

