4-468-397-**13**(1) SONY

Personal Audio System



Bluetooth



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9) Do not defeat the safety purpose of the polarized or grounding-type plug. A

polarized plug has two blades with one wider than the other. A grounding

your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched particularly at plugs

manufacturer, or sold with the apparatus. When a cart is used, use caution

when moving the cart/apparatus combination to avoid injury from tip-over.

11) Only use attachments/accessories specified by the manufacturer.

12) Use only with the cart, stand, tripod, bracket, or table specified by the

13) Unplug this apparatus during lightning storms or when unused for long

14) Refer all servicing to qualified service personnel. Servicing is required when

plug is damaged, liquid has been spilled or objects have fallen into the

apparatus, the apparatus has been exposed to rain or moisture, does not

• For details on operation of your mobile phone when receiving a telephone call

while transmitting the sound using the BLUETOOTH connection, refer to the

The nameplate indicating Sony trademark, model number and electrical rating is

• Plug the AC plug into a nearby wall outlet (mains). In the case of a problem,

Do not leave the system in a location near heat sources, or in a place subject to

Do not expose the battery to excessive heat such as direct sunlight, fire or the

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

• If you have any questions or problems concerning this system that are not

FOR UNITED STATES CUSTOMERS. NOT APPLICABLE IN CANADA,

the literature accompanying the appliance

This symbol is intended to alert the user to the presence of

important operating and maintenance (servicing) instructions in

direct sunlight, excessive dust, moisture, rain or mechanical shock.

the apparatus has been damaged in any way, such as power-supply cord or

periods of time.

Precautions

Notes on the AC plug

On placement

On cleaning

operate normally, or has been dropped

www.dtsc.ca.gov/hazardouswaste/perchlorate

Note when using with a mobile phone

located on the bottom exterior of this system

unplug it from the wall outlet (mains) immediately.

• Do not set the speaker in an inclined position.

• Do not twist or place heavy objects on the AC plug cord.

To disconnect AC power, grasp the plug itself, not the cord

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

INCLUDING IN THE PROVINCE OF QUEBEC.

The Caution Marking is put on the Bottom Enclosure.

covered in this manual, please consult your nearest Sony dealer.

Perchlorate Material –special handling may apply, see

operating instructions supplied with the mobile phone.

For the state of California USA only

convenience receptacles, and the point where they exit from the apparatus.

type plug has two blades and a third grounding prong. The wide blade or the

third prong are provided for your safety. If the provided plug does not fit into

ICF-CS20BT

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

The model number and the serial number are located on the bottom Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product Model No. ICF-CS20BT

WARNING

DO NOT INGEST BATTERY, CHEMICAL BURN HAZARD

This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to Keep new and used batteries away from children. If the battery compartment

does not close securely, stop using the product and keep it away from children If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

This graphical symbol is located on the bottom of the unit.

Please register this product on line at http://www.sony.com/ productregistration.

For Customers in Canada: Please register this product online at http://productregistration.sony.ca.

Proper registration will enable us to send you periodic updates about new products, services and other important announcements. Registering your product will also allow us to contact you in the unlikely event that the produc needs adjustment or modification. Thank you.

WARNING

For customers in the USA:

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

As the main plug is used to disconnect the unit 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

On Copyrights and Licenses

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Android and Google Play are trademarks of Google Inc. iPad, iPhone, iPod, iPod classic, iPod nano, iPod touch and Mac are trademarks of

Apple Inc. registered in the U.S. and other countries. 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. 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.

• 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

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment Danger of explosion if battery is incorrectly replaced. Replace only with the same

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following

 Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which Consult the dealer or an experienced radio/TV technician for help. This equipment must not be co-located or operated in conjunction with any other

The following FCC/IC statement applies only to the version of this model manufactured for sale in the U.S.A. and Canada. Other versions may not comply with FCC/IC technical regulations This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure

Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

For customers in Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Important Safety Instructions

1) Read these instructions. 2) Keep these instructions 3) Heed all warnings.

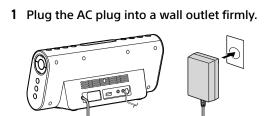
4) Follow all instructions Do not use this apparatus near water.

6) Clean only with dry cloth.) Do not block any ventilation openings.

or other apparatus (including amplifiers) that produce heat.

Install in accordance with the manufacturer's instructions. 8) Do not install near any heat sources such as radiators, heat registers, stoves Getting Started

Connecting to a Power Source



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

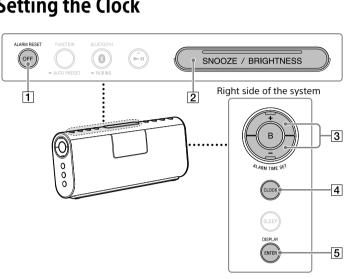
CAUTION

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.

 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



Setting the clock for the first time

This system is preset to the current EST (Eastern 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. 1 Plug in the system.

The current EST (Eastern Standard Time) lights up in the display. 2 Press and hold OFF 1 and CLOCK 4 until area number "2" begins to flash in the display.

3 Press ALARM TIME SET +/- 3 to select the number as

Area number Time zone Newfoundland Standard Time Atlantic Standard Time Eastern Standard Time Central Standard Time Mountain Standard Time Pacific Standard Time Alaska Standard Time

4 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

Hawaii Standard 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. • Daylight saving time (summer time) begins at: 2:00 AM on the second Sunday

• Standard time begins at: 2:00 AM on the first Sunday of November. To cancel Auto DST/summer time adjustment during the daylight saving time (summer time) period

The Auto DST/summer time adjustment can be canceled While the clock is displayed, press and hold **OFF** 1 and **DISPLAY/ENTER** 5 until "A" and "OFF" light up in the display. Auto DST/summer time adjustment has been canceled, then the display returns to the clock.

To activate Auto DST/summer time adjustment again, press and hold **OFF** 1 and **DISPLAY/ENTER** 5 until "*" and "On" light up in the display.

• 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 • When Hawaii Standard Time is set, Auto DST/summer time adjustment defaults to off. You can turn it on by the above operation.

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** 4 until the year digits begin to flash in the display.

3 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

4 Repeat step 3 to set the month, day, hour and minute. The seconds start incrementing from zero.

• If you do not press any button for about 1 minute while setting the clock, the clock setting will • 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

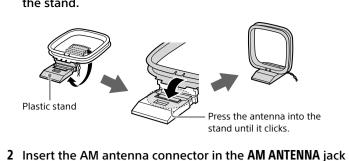
To change the time format You can choose the displayed time format between the 12-hour system (default) Press and hold **OFF** 1 and **SNOOZE/BRIGHTNESS** 2 for about 2 seconds. The time format toggles between the 12-hour system ("AM 12:00" = midnight) and

the 24-hour system ("0:00" = midnight).

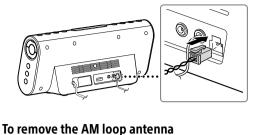
To display the year and date While the clock is displayed, press **CLOCK** [4] once to display the month and date, and press again to display the year. To return to the current time display, press **CLOCK** 4 once again; or after a few seconds the display will return automatically. **Connecting the AM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

The shape and length of the antenna is designed to receive AM signals. Do not

dismantle or roll up the antenna 1 Raise the plastic stand and fit the antenna into the slot of



on the rear of the system.



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



How to Make Wireless Connection with BLUETOOTH Devices

You can enjoy music and hands-free calling with the system wirelessly by using vour 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

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

One-touch connection with a smartphone (NFC):

Check the following before operating the system

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

• Both the system and the device are placed within 1 m (3 ft) of each other. The system is connected to a power source. • The operating instructions supplied with the device are kept at hand.

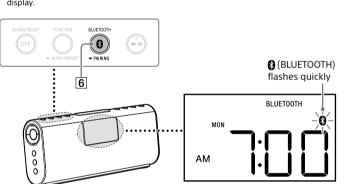
Pattern A

quickly in the display.

Pairing and connecting with a BLUETOOTH device Set the BLUETOOTH function of the BLUETOOTH device to

For details, refer to the operating instructions supplied with the device. 2 Press and hold **9 BLUETOOTH - PAIRING** 6 on the system until beeps are heard and "(BLUETOOTH)" begins to flash

• From the factory, pairing information is not stored in the system. In this case, if you only press 3 BLUETOOTH — PAIRING 6, " (BLUETOOTH)" starts flashing quickly in the



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

• 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 "(BLUETOOTH)" in the display * Passcode may be called "Passkey," "PIN code," "PIN number," or "Password."

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

• Pairing mode of the system is canceled after about 5 minutes, and " (BLUETOOTH)" in the display flashes slowly. If the pairing mode is canceled while performing this procedure, star

• Passcode of the system is fixed as "0000." The system cannot be paired with a BLUETOOTH evice 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 device: 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

Connecting with a paired BLUETOOTH device

Set the BLUETOOTH function of the BLUETOOTH device to

• 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.

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

• This step may not be necessary for some devices.

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.

The BLUETOOTH connection is established and " (BLUETOOTH)" in the display

Connecting with a smartphone by One touch (NFC)

By just touching the system with an NFC compatible smartphone, the system

connection, the system switches to the BLUETOOTH function automatically.)

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.

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:

2 Download and install the app "NFC Easy Connect" on the

"NFC Easy Connect" is an original app by Sony for Android phones, and is

download and install the free app. Communication fees are required to

The App may not be available in some countries and/or regions.

3 Start the app "NFC Easy Connect" on the smartphone.

release the lock, then touch the smartphone on the N marked part again

Follow the on-screen instructions to establish the connection

• If it is difficult to establish the connection, try the following.

• Touch the system with the smartphone again to disconnect.

Indications of the BLUETOOTH function

change the BLUETOOTH connection to the system.

The BLUETOOTH connection is established and " (BLUETOOTH)" in the display

- Activate the app "NFC Easy Connect" and move the smartphone slightly on the N

 \bullet 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

"BLUETOOTH" lights up

(BLUETOOTH) flashes

"

(BLUETOOTH)" lights up

" (BLUETOOTH)" flashes quickly

Keep touching the smartphone on the N marked part of the system until the

• If the screen of your smartphone is locked, the smartphone will not function. In this case

(BLUETOOTH) lights up

Make sure that the application screen is displayed.

4 Touch the system with the smartphone.

Smartphone responds (system recognized)

stavs on.

BLUETOOTH function

Pairing with a device

Searching for a device

Connected to a device

marked part of the system - If the smartphone is in a case, remove it.

Search for "NFC Easy Connect" or scan the following two-dimensional code to

• 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

1 Set the NFC function of the smartphone to on.

• If your smartphone OS is Android 4.1 or later: proceed to step 4.

pairs and connects with the smartphone. (After making the BLUETOOTH

Compatible smartphones

Customers in the U.S.A.

Customers in Canada

proceed to step 2.

available at Google Play Store.

supplied with the smartphone

By the two-dimensional code:

Jse a two-dimensional code reader app.

smartphone

download the app.

About NFC

http://esupport.sony.com/US

http://esupport.sony.com/CA

• Smartphones with the NFC function built-in

Access the following Web site for details:

Access the following Web site for details:

(OS: Android 2.3.3 or later, excluding Android 3.x)

Listening to Music

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

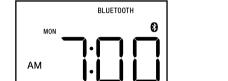
You can enjoy listening to music and basic remote control operation of a BLUETOOTH device via BLUETOOTH connection. The BLUETOOTH device is required to support the following BLUETOOTH profiles. • A2DP (Advanced Audio Distribution Profile): enables you to enjoy high-quality audio content wirelessly.

• 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 " (BLUETOOTH)" in the display stays on.



2 Start playback on the BLUETOOTH device, then adjust the 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.

System button functions during music playback

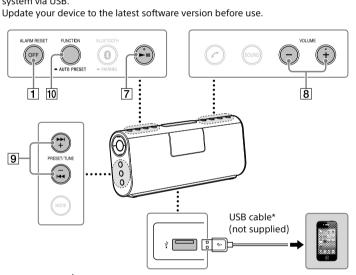
Touch the system with the smartphone again to disconnect (NFC compatible

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. ▶II (play/pause) 7 Press once to pause/resume playback. ▶►I/► (forward/ Press once to skip to the next/previous track. rewind) 9 **VOLUME -/+ 8** Press to adjust the volume.

Listening to Music by Wired Connection

Listening to Music via USB Connection with an

You can enjoy listening to music and play back an iPhone/iPod connected to the system via USB.



 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

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

Set the volume of the connected iPhone/iPod to a moderate level, and press

the **VOLUME -/+** 8 on the system. • When a USB device other than an iPhone/iPod is connected to the system, only charging

• Do not connect the multiple devices to the Ψ (USB) port of the system. Press **FUNCTION** 10 or **OFF** 1 to deactivate the USB function.

VOLUME -/+ 8

the volume.

System button functions during music playback Functions ▶II (play/pause) [7] Press once to pause/resume playback. ▶▶I/► (forward/ • Press once to skip to the next/previous track. rewind) 9

Press to adjust the volume.

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

(not supplied)

1 Connect the device to the AUDIO IN jack on the rear of the

Press **FUNCTION** 10 repeatedly until "AUDIO IN" lights up in the display.

3 Start playback on the connected device, then adjust the

Press **FUNCTION** [10] or **OFF** [1] to deactivate the AUDIO IN function. To stop

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

• When you watching TV or listening to the radio with a device connected to the system, the

prevent noise. If noise occurs, even when the device is turned off, disconnect and place the

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

• When you listen to the radio with a device connected, turn off the connected device to

playback on the connected device, operate the connected device.

Set the volume of the connected device to a moderate level, and press the

device before making any connections

AUDIO IN jack (stereo mini jack)

VOLUME -/+ 8 on the system.

reception may be poor.

device away from the system.

2 Press FUNCTION 10 to select "AUDIO IN."

on the rear of the system

OFF PORCHON

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

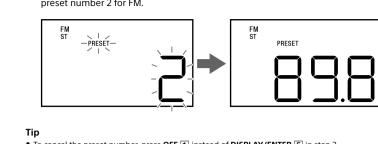
1 Tune to a station you want to preset.

To preset radio stations manually

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

ou can manually preset a radio station which cannot be preset automatically.

3 Press PRESET +/- 9 to select the preset number, and then press DISPLAY/ENTER 5 to confirm.



Example: The following displays appear when you preset FM 89.8 MHz to

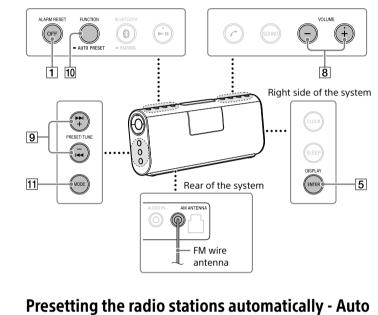
• To cancel the preset number, press OFF 1 instead of DISPLAY/ENTER 5 in step 3 Notes on radio reception

• Do not place the AM loop antenna near the system, power supply or other A/V equipmen during use, as noise may result.

 Keep digital music players or mobile phones away from the AM loop antenna or the FM antenna, 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.

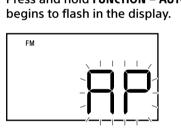
• You can use hands-free calling while listening to the radio on this system.

Listening to Radio



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"

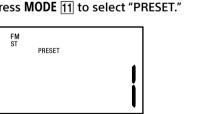


3 Press DISPLAY/ENTER 5 Receivable radio stations will be preset automatically in order of frequency.

• 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 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

After use

Press **FUNCTION** 10 or **OFF** 1 to deactivate the radio function. To improve reception

• For FM radio reception, extend the FM wire antenna fully to increase reception • For AM radio reception, connect the supplied AM loop antenna to the system. Rotate the antenna horizontally for optimum reception.

in the display. You will lose the stereo effect, but noise will be reduced.

• If stereo FM reception is noisy, press and hold MODE 11 until "MONO" lights up

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."

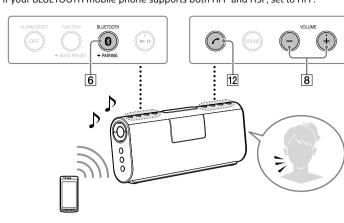


3 Press and hold TUNE +/- 9 until the frequency digits begin to change quickly in the display. The system automatically scans the radio frequencies and stops when it finds a clear station (automatic tuning mode). If you cannot tune to a station using the automatic tuning mode, press **TUNE** +/- 9 repeatedly 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.

The station is preset and assigned to the selected preset number.

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 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

When there is an incoming call or outgoing call, the system automatically changes to the BLUETOOTH function.

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 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. • If no ring tone is heard from the system when an incoming call arrives, stop playback or radio

 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.

• 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.

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

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).

C (call) 12

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 compati mobile phones only). Press and hold for a few seconds to redial the p 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

connected with this system in this case.

Wireless Connection with BLUETOOTH Devices." The BLUETOOTH connection is established and " (BLUETOOTH)" in the display stays on. • 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

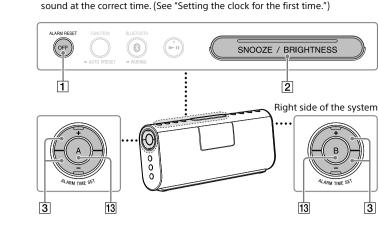
occupied by the same BLUETOOTH mobile phone. A BLUETOOTH music player cannot be

• To make the same connection with the same devices after turning the system off, follow

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



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

"A" 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 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. Davs 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

• "BUZZER": Set the buzzer alarm. The alarm setting is completed. The display returns to clock and "A" 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 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 "A" lights up

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

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

to an iPhone/iPod via USB, the alarm will be the buzzer.

1 Press **SNOOZE** 2 once while the alarm sounds. The alarm sound turns off but will automatically come on again after about 10 You can change the snooze time as follows by pressing **SNOOZE** 2 repeatedly.

 \rightarrow 10 \rightarrow 20 \rightarrow 30 \rightarrow └ 60 ← 50 ← 40 ← To stop the snooze timer, press ALARM RESET 1.

System button functions for the alarm function

10	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 ideactivated

• Even if the alarm is deactivated, the alarm will be activated when you change the alarm

To activate the alarm again, press A 13 again

• 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 between 2:00 AM and 3:00 AM, and daylight saving time begins, the

alarm will sound at 3:00 AM. – If the alarm is set between 1:00 AM and 2:00 AM, and daylight saving time ends, 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.

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 no operation is performed while the alarm is sounding, the alarm will stop after about 60

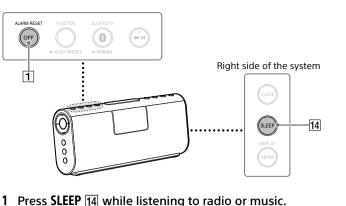
• If the alarm mode is set to "USB," "BLUETOOTH," "FM" or "AM," it will change to buzzer

• If ALARM RESET 1 is not pressed, the alarm will sound for about 5 minutes If "\surset " lights up in the display, the alarm will not sound in the event of a power interruption.

 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 prese



"SLEEP" lights up and the sleep time duration begins to flash in the display. 2 Press **SLEEP** 14 to select the sleep time duration.

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

 $90 \longrightarrow 60 \longrightarrow 30 \longrightarrow 15$ ____ 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

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

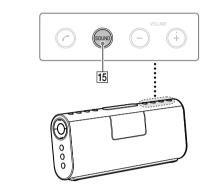
To change the sleep timer setting Press **SLEEP** 14. You can change the sleep time duration after the sleep timer has been activated

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

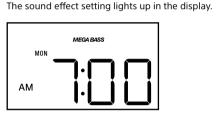
• Music playback on a device connected to the **AUDIO IN** jack does not stop automatically. To

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 eactivated automatically when the alarm sound

To Enjoy the Sound Effect Setting



1 Press **SOUND** 15 to select the sound effect.

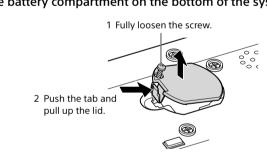


You can change the sound effect as follows by pressing **SOUND** 15

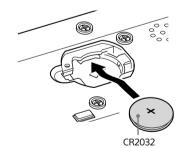
Display	Sound effect
MEGA BASS	High-quality bass sound will be heard.
MEGA BASS MEGA Xpand	Both high-quality bass and surround sound will be heard.
MEGA Xpand	Surround sound will be heard.
Off	The sound effect is off.

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 **t** side facing up.

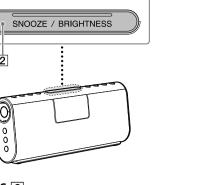


4 Press FUNCTION, © BLUETOOTH or SNOOZE/ BRIGHTNESS on the system to turn off "\bar{'}" in the display.

• 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 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 (30 ft). Connecting two devices as necessary is common, but some devices can be connected to multiple devices at the same time.



1 Press BRIGHTNESS 2.

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

High (default) → Off Even if brightness level is set to Off, it will change to Low while the alarm is

Press and hold **BRIGHTNESS** 2 to turn off the display directly.

Specifications

AUDIO POWER SPECIFICATIONS POWER OUTPUT AND TOTAL HARMONIC DISTORTION

> With 5 ohm loads both channels driven, from 150 Hz 10.000 Hz: rated 2 watts per channel minimum RMS power, with no more than 10 % total harmonic distortion.

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

USB section USB port (type A)

Supported sampling frequencies/bit USB input: Maximum 44.1 kHz/16 bit **BLUETOOTH**

Stereo mini jack × 1

Communication System **BLUETOOTH Specification version 3.0 BLUETOOTH Specification Power Class 2** Maximum communication range Line of sight approx. 10 m (30 ft)*1

2 W + 2 W (10 % T.H.D., 1 kHz, 5 Ω)

Frequency band 2.4 GHz band (2.4000 GHz - 2.4835 GHz) Modulation method 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* 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, antenna'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

200 Hz - 3,600 Hz

*4 Subband Codeo Microphone

Electret condense Direction characteristic Omni directional Effective frequency range:

requericy range				
Band	Frequency	Frequency step		
FM	87.5 MHz - 108 MHz	0.1 MHz		

530 kHz - 1.710 kHz General 120 V AC, 60 Hz, 16 W For clock back up 3V DC, CR2032 battery (1) Approximately 281 mm × 126 mm × 80 mm

 $(11^{1}/_{8} \text{ in} \times 5 \text{ in} \times 3^{1}/_{4} \text{ in}) (\text{w/h/d})$ Approximately 1.3 kg (2 lb 14 oz) including batteries Supplied accessories AM loop antenna (1) BLUETOOTH Startup Guide (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.

Operating Instructions (this document) (1)

USB works with 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)

BLUETOOTH technology works with 3 Replace the battery compartment lid and tighten the

iPod nano (5th generation) iPod nano (4th generation)

iPhone 4S iPhone 4 iPhone 3GS iPad (4th generation iPad mini iPad (3rd generation iPad 2

iPod touch (5th generation)

iPod touch (4th generation)

iPod touch (3rd generation)

Design and specifications are subject to change without notice.

iPod nano (7th generation)

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

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

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
- SPP (Serial Port Profile): Establishing serial communication with BLUETOOTH

Maximum communication range

Use BLUETOOTH devices within 10 m (about 30 ft) (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

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 (about 30 ft) away from the wireless LAN device - If the system is used within 10 m (about 30 ft) of a wireless LAN device, turn off the wireless LAN device.

frequency, microwave interference may occur and resulting in communication

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

- near automatic doors or a fire alarm

• 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

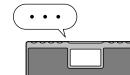
features or specifications of the device. • Noise or sound skips may occur depending on the BLUETOOTH device connected with the system, the communication environment or the usage

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

Troubleshooting



ON

Check that both this system and the

connected device are turned on.

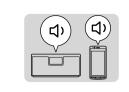
If you are connecting a personal

the audio output setting of the

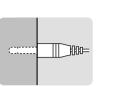
computer to the system, make sure

computer is set for a BLUETOOTH

No sound / Sound from only one speaker / Low sound



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

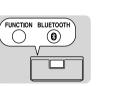


Check that both plugs of the Check that the connected device is being played back connecting cord (not supplied) or both connectors of the USB cable (not supplied) are firmly inserted into the

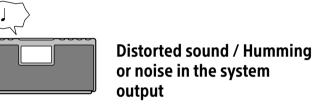


system and the connected device.

Pair this system and the BLUETOOTH device again.



If the connected device is monaural. Check that the function for the sound will only be output from the left connected device ("BLUETOOTH," "USB" or "AUDIO IN") is activated.



or noise in the system output

(EQ OFF

If the connected device has ar

equalizer function, set it to off.



and the connected device.

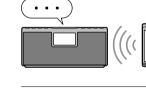
Keep the system away from a





Keep the system away from a TV.

radio or tuner to this system. broadcasts may not be received, or system farther away from the device



If the (BLUETOOTH) indicator is not

flashing quickly, press and hold

BLUETOOTH - PAIRING on the

system until beeps are heard.



Check that output of the BLUETOOTH

Turn up the volume of the system and

the connected device.

mobile phone is set for the system.



"0:00" due to a power interruption,

replace the battery with a new one.

Clock is not displayed correctly



When the clock flashes "AM 12:00" or If the clock does not employ the daylight saying time (summer time) automatically, press and hold **OFF** and **DISPLAY/ENTER** until "" and "On" light up in the display



ON

(HFP/HSP

BLUETOOTH device.

Check that both this system and the

connected device are turned on.

Select HFP or HSP BLUETOOTH

(NFC ON)





Check that the "NFC Easy Connect"

app is displayed on the smartphone.

(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.





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 sensitivity may be reduced. Locate the and check that you can listen to the broadcasts satisfactorily.



Bring this system and the BLUETOOTH device to within 1 m (3 ft) of each



Check that the alarm indication "\(\mathbb{O}\)" or \(\text{Check that the device set for the alarm}\)

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It is your responsibility to backup any data, software or other materials you may have stored or pre-

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Portable Audio

If the smartphone is in a case, remove

