This manual includes information needed when starting up and also instructions for frequently used operations. The "Advanced Manual" is available on the internet with details about the playback features/listening modes/settings details, specifications, and troubleshooting. The Advanced Manual is created in a format that makes it easy to read on a PC or Smartphone.


Advanced Manual found here
What’s in the box
1. Main unit  2. Remote controller (RC-914R) ×1, Batteries (AAA/R03) ×2
3. Indoor FM antenna ×1  4. AM loop antenna ×1  5. Speaker setup microphone ×1
6. Power cord ×1

Main features
This unit is connected between your TV and your AV components. To play, select the source with the input selector. You can connect 7.1ch of speakers to this unit, with 7ch at 170 W (6 ohms, 1 kHz, 0.9%THD) (North American models) / 160 W (6 ohms, 1 kHz, 1%THD) (European, Australian, Asian and Taiwanese models) per channel plus a powered subwoofer pre out jack.
- Supports playback in Dolby Atmos format which provides 360° sound placement
- The HDMI jack supports 4K video input and output. Jacks IN1 to 3 and OUT MAIN/SUB support HDCP2.2
- HDMI CEC functionality: Control features such as linking input switching with the input selector and players conforming to the CEC standard, switching audio output and volume using the remote controller of a CEC-compliant TV, and automatically switching this unit to standby when the TV is turned off
- HDMI Standby Through: Video and audio signals from AV components can be transmitted to the TV even if this unit is in standby
- ARC: Connection with an ARC-compatible TV is complete with one HDMI cable
- Easy Initial Setup using onscreen guidance and On-Screen Display (OSD) showing operations on the TV
- Internet radio and AirPlay via wired LAN or Wi-Fi (wireless LAN) and network features such as Music Server that enables PC music file playback, USB playback, plus other playback features such as AM/FM radio and BLUETOOTH® play
- Playback formats supported by Music Server and USB include WAV, FLAC and DSD high-res source
- Multi-zone Connection which allows you to play in the main room and listen in a separate room (ZONE 2)
- We plan to provide support for the DTS:X audio format through a firmware update for this unit. Refer to our homepage for more information.

CAUTION: Connect speakers with 6 Ω to 16 Ω impedance. The power cord must be connected only after all other cable connections are completed.
- We will not accept responsibility for damage arising from the connection of equipment manufactured by other companies.
Step 1: Choose your Speaker Layout

For 5.1-Channel System

This is a 5.1-channel system that is the basic surround system. Front speakers output front stereo sound and a center speaker outputs center sound such as dialogs and vocals. Surround speakers create back sound field. Powered subwoofer reproduces bass sounds and creates rich sound field. The front speakers should be positioned at ear height, while the surround speakers should be positioned just above ear height. Center speaker should be set up facing the listening position. Place the powered subwoofer towards the front. Placing it between the center speaker and a front speaker gives you a natural sound even when playing music.

- The front speakers, center speaker, and surround speakers are counted as 5 channels, and the powered subwoofer is counted as 0.1 of a channel, giving us the name 5.1ch system.

Speaker B System

In a 5.1-Channel System, you can connect one more set of front speakers to use as a Speaker B System. In this state, the 5.1-Channel System becomes the Speaker A System and you can switch the same audio to output from A, B, or A+B. There is no output from Speakers B if Zone Speaker connection (P17) is used.

Go To "Hookup" (P9)
For 7.1-Channel System (with Surround Back Speakers)

This is a system with surround back speakers added to the basic 5.1-channel system. The connection of surround back speakers improves the sense of envelopment and connectivity of sound created by the back sound field and provides a more real sound field. You can select the Dolby Atmos listening mode, which realizes the most up-to-date 3D surround sound, when the input format is Dolby Atmos. With formats other than Dolby Atmos, you can still create a sound field by outputting sound from the surround back speakers when you select the Dolby Surround listening mode. The optimal positioning is for surround back speakers to be at ear height. Place the surround speakers in a more slightly forward position than you would in a 5.1-channel system.

- If you are including surround back speakers in the setup, surround speakers are required.

Speaker B System

In a 7.1-Channel System (with Surround Back Speakers), you can connect one more set of front speakers to use as a Speaker B System. In this state, the 7.1-Channel System becomes the Speaker A System and you can switch the same audio to output from A, B, or A+B. Note that sound is not output from the surround back speaker when A+B is selected. There is no output from Speakers B if Zone Speaker connection (P17) is used.

Go To "Hookup" (P9)
For 7.1-Channel System (with Height Speaker-A)

This is a basic 5.1-channel system with the addition of height speakers, either as front high speakers or rear high speakers. Select which speakers to setup according to the environment of the room. You can select the Dolby Atmos listening mode (5.1.2 channel playback), which realizes the most up-to-date 3D surround sound including overhead sounds, when the input format is Dolby Atmos. With formats other than Dolby Atmos, you can still create a sound field by outputting sound from the height speakers when you select the Dolby Surround listening mode. Front high speakers or rear high speakers should be situated at least 0.9 m higher than the front speakers. Front high speakers should be situated directly above the front speakers and the distance between the rear high speakers should match the distance between the front speakers. Both should be set up facing the listening position.

Go To "Hookup" (P10)

Choose one of the following:
- Front High Speakers
- Rear High Speakers

1 – 6 (P3)

9, 10 Height Speakers

3’ (0.9 m) or more
For 7.1-Channel System (with Height Speaker-B)

This is a basic 5.1-channel system using ceiling speakers, for example, with the addition of height speakers, either as top front speakers, top middle speakers, or top rear speakers. Select which speakers to setup according to the environment of the room. You can select the Dolby Atmos listening mode (5.1.2 channel playback), which realizes the most up-to-date 3D surround sound including overhead sounds, when the input format is Dolby Atmos. With formats other than Dolby Atmos, you can still create a sound field by outputting sound from the height speakers when you select the Dolby Surround listening mode. Fit top front speakers on the ceiling forward of the seating position, top middle speakers on the ceiling directly above the seating position, and top rear speakers on the ceiling behind the seating position. The distance between each pair should match the distance between the two front speakers.

- Dolby Laboratories recommends placing this type of height speakers to obtain the best Dolby Atmos effect.

Go To “Hookup” (P10)

1 - 6 (P3)

9 10 Height Speakers

Choose one of the following:

- Top Front Speakers
- Top Middle Speakers
- Top Rear Speakers

* 1: 30' to 55', * 2: 65' to 100', * 3: 125' to 150'
For 7.1-Channel System (with Height Speakers-C)

This is a basic 5.1-channel system that using Dolby enabled speakers, with the addition of height speakers, either as Dolby enabled speakers (front) or Dolby enabled speakers (surround) or Dolby enabled speakers (surround back). Select which speakers to setup according to the environment of the room. Dolby enabled speakers are special speakers designed to face the ceiling so that sound is heard after bouncing off the ceiling so that sound appears to be coming from overhead. You can select the Dolby Atmos listening mode (5.1.2 channel playback), which realizes the most up-to-date 3D surround sound including overhead sounds, when the input format is Dolby Atmos. With formats other than Dolby Atmos, you can still create a sound field by outputting sound from the height speakers when you select the Dolby Surround listening mode. Place them either above the front speakers or above the surround speakers or above the surround back speakers. If they are integrated Dolby enabled speakers, put in place of the front speakers, the surround speakers, or the surround back speakers.

Go To “Hookup” (P10)

Choose one of the following:

- Dolby Enabled Speakers (Front)
- Dolby Enabled Speakers (Surround)
- Dolby Enabled Speakers (Surround Back)
For Bi-Amping the Speakers

It is possible to connect front speakers supporting Bi-Amping to improve quality of the bass and treble. The maximum number of channels available with this connection is 5.1 because Bi-Amping speakers require one amplifier for the tweeter jacks and one amplifier for the woofer jacks. The effects and placements for speakers are the same as the 5.1-channel plan that doesn't use Bi-Amping speakers.

Go To "Hookup" (P11)

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1. Front Speakers (Bi-Amping)
2. Center Speaker
3. Surround Speakers
4. Powered Subwoofer

* 1: 22° to 30°, * 2: 120°
Step 2: Connect the Speakers

Connect 123456 for a 5.1-channel system. With a 7.1-Channel System (with Surround Back Speakers), also connect 7 and 8. Up to two powered subwoofers can be connected. The same signal is output from each of the SUBWOOFER jacks. With this connection, you can connect one more set of front speakers to use as a Speaker B System. Switch Speakers A/B with AV Adjust (P25). Note that sound is not output from the surround back speaker when A+B is selected.

- Settings for the speaker configuration you have connected need to be made in "1. Full Auto MCACC" (P19) in Initial Setup.

Make sure the exposed wires of the speakers do not stick out of the speaker terminals when connecting. If the exposed wires of the speakers touch the rear panel or the + and – wires touch each other, the protection circuit will be activated.

1 Speaker cable, 2 Subwoofer cable
Connect 1, 2, 9. Up to two powered subwoofers can be connected. The same signal is output from each of the SUBWOOFER jacks.

Apart from these connections, you can also connect surround back speakers 7 and 8. However, you can only output audio from one set of 7 or 8 at a time. When both are connected, you can select which speakers to prioritize with AV Adjust (P25).

Setup
- Settings for the speaker configuration you have connected need to be made in "1. Full Auto MCACC" (P19) in Initial Setup.

Make sure the exposed wires of the speakers do not stick out of the speaker terminals when connecting. If the exposed wires of the speakers touch the rear panel or the + and – wires touch each other, the protection circuit will be activated.
Connect front speakers compatible with Bi-Amping connection to the FRONT jacks and the SURROUND BACK jacks. Make sure you remove the jumper bar fitted between the woofer jacks and tweeter jacks of the front speakers. In case of Bi-Amping connection, refer to the instruction manual of your speakers. Up to two powered subwoofers can be connected. The same signal is output from each of the SUBWOOFER jacks.

Setup

Bi-Amping connection requires you to change some settings. Select "Yes" in "Bi-Amp" in "1. Full Auto MCACC" (P19) in the Initial Setup.

Make sure the exposed wires of the speakers do not stick out of the speaker terminals when connecting. If the exposed wires of the speakers touch the rear panel or the + and – wires touch each other, the protection circuit will be activated.
Step3: Connect the TV

If you have:

ARC TV

This unit is connected between your TV and AV components. If you connect two or more AV components, you can select the video displayed on the TV and the audio output from this unit by changing the input selector. Shown here are the connections for a TV that supports the ARC (Audio Return Channel) feature. By connecting with a single HDMI cable, you can not only output the video input to this unit to the TV, but you can also play the sound from the TV through this unit. Choose an HDMI IN jack on the TV that supports ARC when connecting.

Setup

• Settings are required to use the ARC function. Select “Yes” in “5. Audio Return Channel” (P20) in the Initial Setup.
• Please refer to the TV’s operation manual for directions on connections and setup for the TV.

Another TV or projector can be connected to the HDMI OUT SUB jack. This jack does not support ARC. For details about how to output the video to a connected device (P21).
This unit is connected between your TV and AV components. If you connect two or more AV components, you can select the video displayed on the TV and the audio output from this unit by changing the input selector. This describes the connections for a TV that does not support the ARC (Audio Return Channel) feature. By connecting with both an HDMI cable and a digital optical cable, you can not only output the video input to this unit to the TV, but you can also play the sound from the TV through this unit.

• Connection with a digital optical cable is not necessary if you will watch TV through a device such as a cable set-top box (that is, not use a tuner built into the TV).

Another TV or projector can be connected to the HDMI OUT SUB jack. This jack does not support ARC. For details about how to output the video to a connected device (P21)
Step 4: Connect the AV Components

**if you have:**

**HDMI AV Components**

This is an example of connection with an AV component that has an HDMI jack. With connection to an AV component that conforms with the CEC (Consumer Electronics Control) standard, you can use features such as the HDMI CEC feature that links with the input selector, and the HDMI Standby Through feature which allows you to play video and audio from AV components on the TV even when this unit is in standby mode.

- To play 4K or 1080p video, use a high speed HDMI cable. Further, to enjoy HDCP2.2 compatible video, connect to the HDMI IN1 to IN3 jacks.

**Setup**

- HDMI setup (P20) is required to use the HDMI CEC and HDMI Standby Through features. Make settings after all connections are complete.
- To enjoy digital surround sound including Dolby Digital, audio output should be set to “Bitstream output” on the connected Blu-ray Disc player or other device.

You can connect a device such as a video camera to the AUX INPUT HDMI jack on the front panel.
Before start > Hookup > Setup > Playback > Part Names

if you have:

Non-HDMI AV Components

This is an example of connection with an AV component that does not have an HDMI jack. Make the connections to the AV component to match the jacks it has. When video input connection is to the BD/DVD jack, the audio input connection should also be to the BD/DVD jacks, and so on, so that you connect the video input jacks to the jacks with the same name as the audio input jacks. Note that video signals input to the VIDEO IN jack or the COMPONENT VIDEO IN jacks will be upconverted to HDMI signals and then output from the HDMI OUT jack.

- To enjoy digital surround playback in formats such as Dolby Digital, you need to make a connection for audio signals with a digital coaxial cable or digital optical cable.

Setup

- The COMPONENT VIDEO IN jacks are compatible only with 480i or 576i resolution. When you input video signals to the COMPONENT VIDEO IN jacks, set the output resolution of the player to 480i or 576i. Select interlace if there is no option for 480i, etc. If your player does not support 480i or 576i output, use the VIDEO IN jack.

- To enjoy digital surround sound including Dolby Digital, audio output should be set to “Bitstream output” on the connected Blu-ray Disc Player or other device.

1 Component video cable, 2 Digital optical cable, 3 Analog audio cable
> Before start  > Hookup  > Setup  > Playback  > Part Names

**if you have:**

**Audio Components**

Example of a connection with an audio component. Connect a CD player using a digital coaxial cable or analog audio cable. You can also connect a turntable that has an MM-type cartridge to the PHONO jack.

- If the turntable has a built-in audio equalizer, connect it to another AUDIO IN jack. Further, if the turntable uses an MC type cartridge, install an audio equalizer compatible with the MC type cartridge between the unit and the turntable, then connect to any AUDIO IN jack other than the PHONO jack.

If the turntable has a ground wire, connect it to the SIGNAL GND terminal of this unit.

1 Digital coaxial cable, 2 Analog audio cable
Multi-zone Connection

You can enjoy audio in the separate room by, for example, playing a Blu-ray Disc player in the main room (where this unit is located) and listening to internet radio in the separate room (ZONE 2).

- DSD and Dolby TrueHD audio signals are not output to ZONE 2 when selected with the "NET" input selector.

Connections with an AV component

When outputting the audio of an external AV component to ZONE 2, you need to connect using an analog audio cable.

ZONE 2 LINE OUT

It is possible to play 2 ch source in a separate room while 7.1 ch source is being played in the main room. Connect the ZONE 2 LINE OUT jacks of the unit and the LINE IN jacks of the pre-main amplifier in a separate room with an analog audio cable.

ZONE SPEAKER

It is possible to connect speakers in a separate room and play 2 ch sources.

- You can play through a maximum of 5.1 channels in the main room during ZONE 2 playback. Listening modes such as the Dolby Atmos modes cannot be selected.
- There is no output from Speakers B if Zone Speaker connection is used.

Setup

- Settings are required in Initial Setup, "4. Multi Zone Setup" (P20) to enjoy this feature.
Step 5: Connect Other Cables

**Antenna Hookup**
Move the antenna around while playing the radio to find the position with the best reception. Use a thumb tack or similar to attach the indoor FM antenna to a wall.

- **AM loop antenna**
- **Indoor FM antenna**

(North American and Taiwanese models)

(European, Australian and Asian models)

**Network Hookup**
Connect this unit to the network using wired LAN or Wi-Fi (wireless LAN). You can enjoy network features such as internet radio, Music Server, and AirPlay by connecting the unit to the network.

If you connect by wired LAN, connect an Ethernet cable to the NETWORK port as shown in the illustration.

To connect by Wi-Fi, after selecting "Wireless" in "3. Network Connection" (P20) in Initial Setup, select the desired setting method and follow the onscreen instructions to configure the connection.

**Power Cord Hookup**
Connect the power cord to the power outlet after completing all other connections.

- Taiwanese models include removable power cords.
- Connect the power cord to AC IN of the unit and then connect to the outlet. Always disconnect the outlet side first when disconnecting the power cord.
Step6: Power On & Initial Setup

Initial Setup starts automatically
Once all connections are complete, change the TV’s input to the input for this unit, insert batteries in the remote controller, and press Ò to turn the power on. When you turn the unit on for the first time, Initial Setup is automatically shown on the TV to enable you to make settings required for startup using simple operations following onscreen guidance. These instructions will guide you through some items that you need to check beforehand. Read beforehand so the setup goes smoothly.

Operation
Select the item with the cursors of the remote controller and press ENTER (a). To return to the previous screen, press  (b).

To redo the Initial Setup
If you terminate the procedure on the way or want to change a setting made during Initial Setup, press on the remote controller, select “System Setup” – “Miscellaneous” – “Initial Setup” from Home, and press ENTER.

1. Full Auto MCACC
Place the supplied speaker setup microphone in the listening position, measure the test tones emitted by the speakers, then the unit automatically sets the optimum volume level for each speaker, the crossover frequencies, and the distance from the listening position. This also enables correction of distortion caused by the acoustic environment of the room.

- Use a tripod or similar to place the speaker setup microphone at ear height.
- The subwoofer sound may not be detected since it is extremely low frequencies. Set the subwoofer volume to more than halfway.
- Calibration takes several minutes to be completed. The speakers emit the test tone at high volume during measurement, so be careful of your surroundings. Keep the room as quiet as possible during measurement. If the measurement is interrupted, turn off the household appliances.
2. Source Connection

Check that each input source is connected correctly. Follow the guidance, select the input you want to confirm, start play of the selected player, and confirm that the images appear on the TV and that sound is played.

3. Network Connection

Set up Wi-Fi connection with an access point such as a wireless LAN router. There are the following two methods of connecting by Wi-Fi:

"Scan Networks": Search for an access point from this unit. Find out the SSID of the access point beforehand.

"Use iOS Device (iOS7 or later)": Share the iOS device’s Wi-Fi settings with this unit. If you select "Scan Networks", there are a further two choices of connection method. Check the following.

- "Enter Password": Enter the password (or key) of the access point to connect.
- "Push Button": If the access point has an automatic connection button, you can connect without entering a password.

If the SSID of the access point is not displayed, then in the screen listing the SSIDs, select "Other..." with the cursor on the remote controller and press ENTER, then follow the onscreen instructions.

Keyboard input

To switch between upper and lower case, select "A/a" on the screen and press ENTER. To select whether to mask the password with " ♂ " or display it in plain text, press +Fav on the remote controller. Press CLEAR to delete all the input characters.

A confirmation screen asking you to agree to the privacy policy is displayed during network setting. Select "Yes" and press ENTER to indicate agreement.

4. Multi Zone Setup

When you want to enjoy audio in a room other than the main room, set the audio output method for the separate room (ZONE2). If you have connected speakers in a separate room with speaker cable, select "Using AV Receiver". If you have connected a pre-main amplifier in a separate room with an analog audio cable, select "with External Premain Amplifier".

5. Audio Return Channel

If you have connected a TV that supports ARC, select "Yes". This unit's ARC setting turns on and you can listen to the TV's audio through this unit.

HDMI Setup

HDMI CEC

Make this setting to enable the control feature for devices complying with the CEC standard. This is set to on automatically if you have selected "Yes" in "5. Audio Return Channel" in the Initial Setup.

Press the button on the remote controller to set "System Setup" – "Hardware" – "HDMI" – "HDMI CEC" to "On" on the TV screen. Also enable the CEC control feature on the CEC device you have connected.

HDMI Standby Through

Even if this unit is in standby, the input signals from AV components are transmitted to the TV.

- "Auto" / "Auto (Eco)": Select one of these settings when connected AV components comply with the CEC standard. Irrespective of the input selector selected immediately before switching the unit to standby, you can transmit the input signals from AV components to the TV. Select "Auto (Eco)") if the TV is also CEC-compliant. You can reduce power consumption in standby mode.

- "Input selector names for BD/DVD, etc.": You can transmit the input signals from the set input selector to the TV. It can be selected when "HDMI CEC" is set to "Off".

- "Last": You can transfer the input signals of the input selector selected immediately prior to the unit being switched to standby. It can be selected when "HDMI CEC" is set to "Off".

To exit the settings, press .
Basic Playback

AV Component Playback

1. Switch the input on the TV to that assigned to the unit.
2. Press the input selector (a) on the remote controller with the same name as the jack to which you connected the player to switch the input.
For example, press BD/DVD to play the player connected to the BD/DVD jack. Press TV to listen to the TV's sound.
You can also select input with the buttons.
• When the CEC link function works, the input switches automatically when you have connected a CEC compliant TV and player to this unit using HDMI connection.
3. Start play on the player.
4. Use VOL+/– (b) to adjust the volume.

When a TV is connected to the HDMI OUT SUB jack
Press the button on the remote controller to display the AV Adjust, and set "Other" = "HDMI Out" to either "SUB" or "MAIN+SUB".

Listening Mode

This unit is equipped with a variety of listening modes. For details on the listening modes, see the Advanced Manual. This section introduces some of the popular modes.
• A future firmware update is planned to enable this unit to support playback in DTS Neural:X audio format. Neo:6 Cinema and Neo:6 Music are available until an update.

AUTO/DIRECT button (c)
You can select the Auto Surround, Direct, and Pure Direct modes. In either case, for 2 channel input signals the Stereo mode is automatically selected that plays only from the front speakers and subwoofer, and for multi-channel input signals listening modes are automatically selected that match the input signal, so Dolby Digital for Dolby Digital sources, and DTS-HD Master Audio for DTS-HD Master Audio. The Direct mode shuts down some processing that can affect sound quality, such as the tone control features, so you can enjoy even better sound quality. The Pure Direct mode shuts down even more processes that affects sound quality, so you get a more faithful reproduction of the original sound. In this case, the speaker calibration made with MCACC is disabled.
• Depending on the input signal and speaker configuration, the Dolby Surround and DTS Neural:X modes that expand 2 channel and 5.1 channel input signals to 5.1 or 7.1 channels may be automatically selected.

SURT button (d)
You can select a variety of listening modes to suit your taste. There are the Dolby Digital, DTS-HD Master Audio, and Stereo modes that you can choose to suit the input signal, or the Dolby Surround and DTS Neural:X modes that can expand 2 channel and 5.1 channel input signals to 5.1 or 7.1 channels. You can also enjoy original surround modes such as Ext.Stereo and Drama modes.

STEREO button (e)
You can select the "Stereo" mode to playback only from the front speakers and subwoofer.

The listening mode last selected for the source is remembered for each of the AUTO/DIRECT, SURT, and STEREO buttons. If content you play is not supported by the listening mode you selected last, the listening mode that is standard for that content is selected automatically. Press (f) repeatedly to switch the display of the main unit in order of:

```
BD/DVD
-42.0

Dolby D

Dolby D 5.1

Ster 48kHz

1080p/60 16:9
```
Network Functions

Network Services

1. Switch the input on the TV to that assigned to the unit.
2. Press NET to display the network service list screen.
3. Select the item with the cursors of the remote controller and press ENTER to confirm your selection (a). To return to the previous screen, press (b).

Internet Radio
When this unit is connected to a network, you can listen to TuneIn or other preregistered Internet radio services. After selecting the desired service, follow the on-screen instructions, using the cursors to select radio stations and programs, then press ENTER to play. Play starts when 100% is displayed for buffering.

Music Server
You can play music files stored on home-network compliant PCs or NAS devices connected to the same network as this unit. Select the server with the cursors, select the desired music file and press ENTER to start playback. Play starts when 100% is displayed for buffering.

Notes:
- Network services become selectable after the network starts up even if they cannot be selected first.
- Functionality may be introduced by firmware updates and service providers may cease services, meaning that some network services and content may become unavailable in the future. Furthermore, available services may vary depending on your area of residence.

USB
Play music files on a USB storage device.
- Operation cannot be guaranteed for all USB storage devices.
1. Switch the input on the TV to that assigned to the unit.
2. Plug your USB storage device with the music files into the USB port on the front of the unit.
3. Press USB on the remote controller.
4. Select the desired folder or music file with the cursors of the remote controller and press ENTER to confirm and start playback (a).
- This unit can use USB storage devices that comply with the USB mass storage device class standard. The unit is also compatible with USB storage devices using the FAT16 or FAT32 file system formats.
AirPlay

You can wirelessly enjoy the music files on an iPhone®, iPod touch®, or iPad® connected to the same access point as this unit.

1. Update the OS version on your iOS device to the latest version.
2. Connect the iOS device to the access point.
3. Press NET.
4. Tap the AirPlay icon in the control center of the iOS device and select this unit from the list of devices displayed, and tap “Done”.
5. Play the music files on the iOS device.

Due to the characteristics of AirPlay wireless technology, the sound produced on this unit may slightly be behind the sound played on the AirPlay-enabled device.

You can also play back music files on the computer with iTunes (Ver. 10.2 or later). Before operation, make sure this unit and the PC are connected to the same network, then press NET on this unit. Next, click the AirPlay icon in iTunes, select this unit from the list of devices displayed, and start play of a music file.

BLUETOOTH® Playback

Pairing

1. When you press BT AUDIO on the remote controller, “Now Pairing...” is displayed on this unit’s display, and the pairing mode is enabled.
2. Enable (turn on) the BLUETOOTH function of the BLUETOOTH enabled device, then select this unit from amongst the devices displayed. If a password is requested, enter “0000”.
3. To connect another BLUETOOTH enabled device, press and hold BT AUDIO until “Now Pairing...” is displayed, then perform step 2 above. This unit can store the data of up to 8 paired devices.
4. The coverage area is 48 feet (15 meters). Note that connection is not always guaranteed with all BLUETOOTH enabled devices.

Playing Back

1. When the unit is on, connect the BLUETOOTH enabled device.
2. The input selector of this unit will be automatically switched to “BT AUDIO”.
3. Play music. Increase the volume of the BLUETOOTH enabled device to an appropriate level.
4. Due to the characteristics of BLUETOOTH wireless technology, the sound produced on this unit may slightly be behind the sound played on the BLUETOOTH enabled device.
## Listening To the Radio

1. Press TUNER (a) on the remote controller repeatedly to select either "AM" or "FM" on the display.
2. Press MODE (c) on the remote controller, so that the "TunMode: Auto" is displayed on the display.
3. When you press the cursor (b) buttons on the remote controller, automatic tuning starts, and searching stops when a station is found. When tuned into a radio station, the "TUNED" indicator on the display lights.

You can preset up to 40 stations.

1. Tune into the AM/FM radio station you want to register.
2. Press +Fav (d) on the remote controller so that the preset number on the display flashes.
3. While the preset number is flashing (about 8 seconds), repeatedly press the cursor (b) buttons on the remote controller to select a number between 1 and 40.
4. Press +Fav (d) again on the remote controller to register the station. When registered, the preset number stops flashing. To select a preset radio station, press the cursor (b) buttons on the remote controller.
   - To delete a preset station, press the cursor (b) buttons on the remote controller to select the preset number you want to delete, press +Fav (d) on the remote controller and then press CLEAR (e) while the preset number is flashing. When deleted, the number on the display goes off.

### Frequency step setting

Press the button on the remote controller to select "System Setup" – "Miscellaneous" – "Tuner" – "AM/FM Frequency Step" or "AM Frequency Step" and select the frequency step for your area. For Taiwanese models, the setting is "10 kHz / 0.2 MHz" at the time of purchase. Please change it to "9 kHz / 0.05 MHz". Note that when this setting is changed, all radio presets are deleted.

## Multi-zone

Settings are required if you have connected the speakers in the separate room (ZONE 2) using speaker cables. If you haven't made the Multi Zone settings (P20) in Initial Setup, press the button on the remote controller and make the settings in System Setup accessed from the Home screen that is displayed. Select "Zone 2" in "System Setup" – "Speaker" – "Configuration" – "Zone Speaker".

### Play

1. While holding down MODE (a) on the remote controller, press ZONE 2 (b) for 3 or more seconds until the remote indicator blinks twice.
   - The remote controller switches to the mode for controlling ZONE 2.

2. Point the remote controller at the main unit and press (d). "Z2" lights on the main unit display.

3. Press the input selector button (e) of the input to be played in the separate room. On the main unit, after pressing ZONE 2-CONTROL, within 8 seconds turn the INPUT SELECTOR dial to select the input to be played in the separate room.
   - You can only select the same inputs for the main room and separate room with the "NET" or "BLUETOOTH", or "USB" input selector. If you have "NET" selected in the main room and then select "USB" in the separate room, the main room also switches to "USB". You cannot select different stations for the main room and separate room with...
the AM/FM radio.

4. Volume adjustment is done on the pre-main amplifier for the separate room when connected via ZONE 2 LINE OUT. When outputting from ZONE speakers, adjust with VOL+/– on the remote controller. To control on the main unit, press ZONE 2-CONTROL and adjust with the MASTER VOLUME control within 8 seconds.
   • If ZONE 2 is on, power consumption during standby becomes larger than normal.

To turn off the function
Press  while in the mode for controlling ZONE 2 on the remote controller. Alternatively press ZONE 2-ON/OFF on the main unit.

Playing in ZONE 2 only
If you turn the unit to standby during multi-zone playback, the Z2 indicator is dimmed and the playback mode is switched to playback in a separate room only. Setting ZONE 2 to on while this unit is in standby will also switch the playback mode to the same setting.

AV Adjust
By pressing  on the remote controller during play, you can adjust frequently used settings, such as the switching the speakers and adjusting sound quality, using on-screen menus. Select the item with the cursors of the remote controller and press ENTER to confirm your selection. To return to the previous screen, press . Note that there is no display on the TV screen when the input selector is "CD", "TV", "PHONO", "FM", or "AM", so follow the main unit's display while doing the operations.

"Tone": It is possible to enhance or moderate the bass and treble.
"Other": Enables you to make a variety of settings.
   • "Sound Delay": If the video is behind the audio, you can delay the audio to offset the gap.
   • "Sound Retriever": Improve the quality of compressed audio.
   • "Speakers": You can switch the output on the surround back speakers and height speakers and switch the output for speakers A/B.

Home
When you press  on the remote controller, the Home is displayed and you can make settings in the various menus. Select the item with the cursors of the remote controller and press ENTER to confirm your selection. To return to the previous screen, press . Note that there is no display on the TV screen when the input selector is "CD", "TV", "PHONO", "FM", or "AM", so follow the main unit's display while doing the operations.

"System Setup": Advanced settings to provide you with an even better experience.
"MCACC": Setup the speakers automatically or make desired changes to the equalizer.

"Network/Bluetooth": Make Wi-Fi connection settings or settings related to BLUETOOTH.

When the unit is operating erratically (Resetting this unit)
Restarting the unit may help it operate more smoothly. To restart the unit, turn it to standby, and then press STANDBY/ON on the main unit for at least 5 seconds. (The unit's settings will be maintained.) If there is no improvement even after the unit is restarted, try disconnecting and reconnecting the power cords of the unit and connected equipment. When there is still no improvement, resetting the unit to the status at the time of shipment may solve the problem. If you reset the unit status, your preferences will be reset to the defaults. Note them down before the operation below.

How to reset the unit
1. While holding down AUTO/DIRECT on the main unit, press STANDBY/ON on the main unit.
2. "Clear" appears on the display and the unit returns to standby. Do not unplug the power cord until "Clear" disappears from the display.

To reset the remote controller, while holding down MODE, press  until the remote indicator flash twice (about 3 seconds).
Front Panel

1. INPUT SELECTOR dial: Switch the input to be played.
2. MCACC indicator: This lights when you have enabled the speaker calibration made with MCACC.
3. FL OFF indicator: This lights when you have pressed DIMMER repeatedly to turn the display off.
4. DIMMER button: Switches the brightness of the display.
5. ZONE 2-ON/OFF button: Switches the multi-zone function on/off.
6. ZONE 2-CONTROL button: Controls the multi-zone function.
7. HOME MENU button: Displays the Home.
8. Display (⇒P28)
9. Cursor buttons (↑TUNE↑ / ↑PRESET↑ button) and ENTER button: Select the item with the cursors and press ENTER to confirm your selection. When using the TUNER, select the frequency with ↑TUNE↑, or select preset stations with ↑PRESET↑.
10. NETWORK indicator: When the power of the unit is on, this lights when "NET" is selected with the input selector and the unit is connected to the network. If the unit is in standby mode, this lights when functions such as HDMI CEC and network standby are enabled. It does not light when ZONE 2 is on, however.
11. WIRELESS indicator: Lights when the unit is connected to the wireless network.
12. Remote control sensor
13. RETURN button: Returns the display to the previous state.
14. MASTER VOLUME: Allows you to adjust the volume.
15. STANDBY/ON button: Turns the unit on or into standby mode.
16. PHONES jack: Stereo headphones with a standard plug (1/4 inch or ø6.3 mm) are connected.
17. MCACC SETUP MIC jack: The supplied speaker setup microphone is connected.
18. Listening mode button: Select the listening mode.
19. SOUND RETRIEVER button: Turns on/off the Sound Retriever function that provides better sound quality for compressed audio.
20. PURE DIRECT button: Switches to the Pure Direct mode.
21. USB port: A USB storage device is connected so that music files stored in it can be played. You can also supply power (5V/1A) to USB devices with a USB cable.
22. AUX INPUT AUDIO jack: You can play the audio from an external player by connecting using a stereo mini plug cable.
23. AUX INPUT HDMI jack: Connect to a video camera, etc., using a HDMI cable.
1. DIGITAL IN OPTICAL/COAXIAL jacks: Input TV or AV component digital audio signals with a digital optical cable or digital coaxial cable.
2. ANTENNA AM LOOP/FM 75Ω terminal: The supplied antennas are connected.
3. VIDEO IN jacks: Input the AV component video signals with an analog video cable.
4. COMPONENT VIDEO IN jacks: Input the AV component video signals with a component video cable.
5. NETWORK port: Connect to the network with an Ethernet cable.
6. HDMI OUT jacks: Transmit video signals and audio signals with a HDMI cable connected to an AV component.
7. HDMI IN jacks: Transmit video signals and audio signals with a HDMI cable connected to an AV component.
8. Wireless antenna: Used for Wi-Fi connection or when using a BLUETOOTH enabled device. Adjust their angles according to the connection status.
9. Power cord (North American, European, Australian and Asian models): AC IN (Taiwanese models): The supplied power cord is connected.
10. SIGNAL GND terminal: The ground wire of the turntable is connected.
11. AUDIO IN jacks: Input AV component audio signal with an analog audio cable.
12. SPEAKERS terminals: Connect speakers with speaker cables. (North American models are compatible with banana plugs.)
13. ZONE 2 LINE OUT jack: Output audio signals with an analog audio cable to a pre-main amplifier in a separate room (ZONE 2).
14. SUBWOOFER PRE OUT jack: Connect a powered subwoofer with a subwoofer cable. Up to two powered subwoofers can be connected. The same signal is output from each of the SUBWOOFER PRE OUT jacks.
Remote Controller

1.  button: Turns the unit on or into standby mode.
2. Input selector buttons: Select the input to be played. Use the buttons in 3 to select "STRM BOX", "AUX", or "PHONO".
3. button: Input source played switches each time you press one of these buttons.
4. (AV ADJUST) button: You can perform common settings on the TV screen.
5. Cursor buttons and ENTER button: Select the item with the cursors and press ENTER to confirm your selection.
6. button: Displays the Home.
7. Volume buttons: Allows you to adjust the volume. This button also cancels the muting.
8. button: Temporarily mutes audio. Press again to cancel muting.
9. LISTENING MODE buttons: Allows you to select the listening mode.
10. Play button: Used for play operations when playing Music Server or USB.
11. button: Used for repeat or random play operations when playing Music Server or USB.
12. CLEAR button: Deletes all characters you have entered when entering text on the TV screen.
13. (STATUS) button: Switches the information on the display.
14. button: Returns the display to the previous state.
15. +Fav button: Registers a radio station.

Display

1. This may light when performing operations with the "NET", "USB" input selector.
2. Lights in the following conditions.
   - Z2: When ZONE 2 is on.
   - ™: When connected by BLUETOOTH.
   - ™: When connected by Wi-Fi.
   - NET: When "NET" is selected with the input selector and the unit is connected to the network. It will flash if the connection to the network is not correct.
   - USB: When "USB" is selected with the input selector and the unit is connected by USB and the USB device is selected. Flashes if the USB is not properly connected.
   - HDMI: When HDMI signals are input and the HDMI input is selected.
   - DIGITAL: When digital signals are input and the digital input is selected.
3. Lights according to the type of input digital audio signals and the listening mode.
4. Lights in the following conditions.
   - RDS (European, Australian and Asian models): Receiving RDS broadcasting.
   - TUNED: Receiving AM/FM radio.
   - STEREO: Receiving FM stereo.
   - SLEEP: When the sleep timer is set.
   - AUTO STBY: Auto Standby is on.
5. The currently selected speaker system lights.
6. Lights when headphones are connected.
7. Lights when muting is on.
8. Displays various information of the input signals.
9. Lights when adjusting the volume.
10. Speaker/Channel display: Displays the output channel that corresponds to the selected listening mode.
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