VSX-530-K_CUXEV_En.book　1 ページ　２０１５年２月１８日　水曜日　午前１１時５６分

Pioneer

AV Receiver

VSX-530-K

Register your product on
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  Your input helps us continue to design products that meet your needs.
- **Receive a free Pioneer newsletter**
  Registered customers can opt in to receive a monthly newsletter.

Operating Instructions

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

D3-4-2-1-1b_A1_En

NOTE:
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 measures:
— 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 the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

D8-10-1-2_A1_En

Information to User
Alterations or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

D8-10-2_A1_En

WARNING
This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filled with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.

D3-4-2-1-3_A1_En

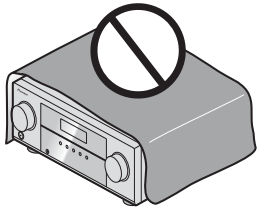
WARNING
To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment.

D3-4-2-1-7a_A1_En

VENTILATION CAUTION
When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 40 cm at top, 20 cm at rear, and 20 cm at each side).

WARNING
Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed.

D3-4-2-1-7b*_A1_En



Operating Environment
Operating environment temperature and humidity:
+5 °C to +35 °C (+41 °F to +95 °F); less than 85 %RH (cooling vents not blocked)
Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light)

D3-4-2-1-7c*_A1_En

Caution
To prevent fire hazard, the Class 2 Wiring Cable should be used for connection with speaker, and should be routed away from hazards to avoid damage to the insulation of the cable.

D3-7-13-67*_A1_En

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
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 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 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, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the 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.

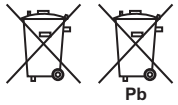
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

D3-7-13-69_En

CAUTION
The ⏻ **STANDBY/ON** switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-2a*_A1_En

(Symbol examples for batteries)



These symbols are only valid in the European Union.

K058c_A1_En

WARNING
Store small parts out of the reach of children and infants. If accidentally swallowed, contact a doctor immediately.

D41-6-4_A1_En

CAUTION
This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

D8-10-3a_A1_En

IMPORTANT NOTICE
THE MODEL NUMBER AND SERIAL NUMBER OF THIS EQUIPMENT ARE ON THE REAR OR BOTTOM. RECORD THESE NUMBERS ON YOUR ENCLOSED WARRANTY CARD AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

D36-AP9-1_A1_En

WARNING: This product contains chemicals known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm.
Wash hands after handling.

D36-P5_C1_En

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period.

K041_A1_En

Radio wave caution

This unit uses a 2.4 GHz radio wave frequency, which is a band used by other wireless systems (Microwave ovens and Cordless phones, etc.). In this event noise appears in your television image, there is the possibility this unit (including products supported by this unit) is causing signal interference with the antenna input connector of your television, video, satellite tuner, etc. In this event, increase the distance between the antenna input connector and this unit (including products supported by this unit).

- Pioneer is not responsible for any malfunction of the compatible Pioneer product due to communication error/malfunctions associated with your network connection and/or your connected equipment. Please contact your Internet service provider or network device manufacturer.
- A separate contract with/payment to an Internet service provider is required to use the Internet.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. 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).

D8-9-2-7-1_A2_En

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets 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).

D8-9-2-7-3_A1_En

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

D8-9-2-5_A1_En

"**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."

Le présent appareil est conforme aux CNR d'Industrie Canada applicable aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly.

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Before you start

Checking what's in the box

Please check that you've received the following supplied accessories:

- Remote control
- AAA size IEC R03 dry cell batteries (to confirm system operation) x2
- AM loop antenna
- FM wire antenna
- Warranty card
- Quick start guide
- Safety Brochure
- SPEAKER CAUTION Sheet (English only)
- These operating instructions (CD-ROM)

Installing the receiver

- When installing this unit, make sure to put it on a level and stable surface.

Don't install it on the following places:

– on a color TV (the screen may distort)
– near a cassette deck (or close to a device that gives off a magnetic field). This may interfere with the sound.
– in direct sunlight
– in damp or wet areas
– in extremely hot or cold areas
– in places where there is vibration or other movement
– in places that are very dusty
– in places that have hot fumes or oils (such as a kitchen)

Flow of settings on the receiver

The unit is a full-fledged AV receiver equipped with an abundance of functions and terminals. It can be used easily after following the procedure below to make the connections and settings.

The colors of the steps indicate the following:

Required setting item

Setting to be made as necessary

1 Connecting the speakers

Where you place the speakers will have a big effect on the sound.

- Placing the speakers (page 11)
- Connecting the speakers (page 12)

↓

2 Connecting the components

For surround sound, you'll want to hook up using a digital connection from the Blu-ray Disc/DVD player to the receiver.

- About video outputs connection (page 14)
- Connecting a TV and playback components (page 15)
- Connecting antennas (page 17)
- Plugging in the receiver (page 18)

↓

3 Power On

Make sure you've set the video input on your TV to this receiver. Check the manual that came with the TV if you don't know how to do this.

↓

4 Specify the size and number of speakers you've connected

- Speaker Setting (page 29)

↓

5 The Input Assign menu (page 31)

(When using connections other than the recommended connections.)

The HDMI Setup menu (page 32)

(When the connected TV supports the HDMI Audio Return Channel function.)

↓

6 Basic playback (page 19)

- Selecting the audio input signal (page 19)
- Playing a USB device (page 21)
- Choosing the listening mode (page 25)

↓

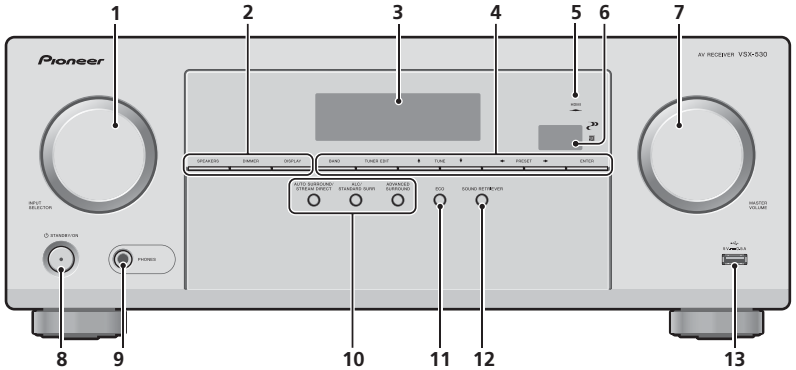
7 Adjusting the sound as desired

- Using the Sound Retriever (page 26)
- Better sound using Phase Control (page 26)
- Setting the Audio options (page 27)
- Manual speaker setup (page 29)

Chapter 1

Controls and displays

Front panel



1 INPUT SELECTOR dial
Selects an input source (page 19).

2 Receiver control buttons

SPEAKERS – Use to change the speaker system on or off. When the **SP OFF** is selected, no sound is output from the speakers connected to this receiver.

DIMMER – Dims or brightens the display. The brightness can be controlled in four steps.

DISPLAY – Switches the display of this unit. The listening mode, sound volume, input name can be checked by selecting an input source.

3 Character display
See *Display* on page 8.

4 Tuner control buttons

BAND – Switches between AM, FM ST (stereo) and FM MONO radio bands (page 23).

TUNER EDIT – Use with **TUNE** ⬆/⬇, **PRESET** ⬅/➡ and **ENTER** to memorize and name stations for recall (page 23).

TUNE ⬆/⬇ – Used to find radio frequencies (page 23).

PRESET ⬅/➡ – Use to select preset radio stations (page 24).

5 HDMI indicator
Blinks when connecting an HDMI-equipped component; lights when the component is connected (page 15).

6 Remote sensor
Receives the signals from the remote control (see *Operating range of remote control* on page 10).

7 MASTER VOLUME dial

8 ⏻STANDBY/ON

9 PHONES jack
Use to connect headphones. When the headphones are connected, there is no sound output from the speakers. The listening mode when the sound is heard from the headphone can be selected only from **PHONES SURR**, **STEREO** or **STEREO ALC** mode.

10 Listening mode buttons

AUTO SURROUND/STREAM DIRECT – Switches between Auto surround mode (page 25) and Stream Direct playback (page 26).

ALC/STANDARD SURR – Press for standard decoding and to switch between the modes of DD Pro Logic and NEO:6, and the Auto level control stereo mode (page 25).

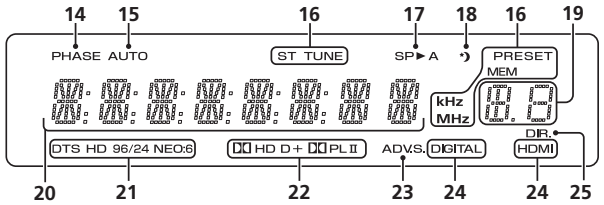
ADVANCED SURROUND – Switches between the various surround modes (page 26).

11 ECO
Switches between ECO Mode 1/ECO Mode 2. When ECO Mode is turned **ON**, the display will go dark (page 26).

12 SOUND RETRIEVER
Turn sound retriever effect on/off.

13 USB terminal
Use to connect your USB mass storage device as an audio source (page 18).

Display



14 PHASE
Lights when the Phase Control is switched on (page 26).

15 AUTO
Lights when the Auto Surround feature is switched on (page 25).

16 Tuner indicators

ST – Lights when a stereo FM broadcast is being received in auto stereo mode (page 23).

TUNE – Lights when a normal broadcast channel.

PRESET – Shows when a preset radio station is registered or called.

MEM – Blinks when a radio station is registered.

kHz/MHz – Lights when the character display is showing the currently received AM/FM broadcast frequency.

17 Speaker indicators
Shows if the speaker system is on or not (page 7).
SP▶A means the speakers are switched on.
SP▶ means the speakers are switched off.

18 Sleep timer indicator
Lights when the receiver is in sleep mode (page 9).

19 PRESET information or input signal indicator
Shows the preset number of the tuner or the input signal type, etc.

20 Character display
Displays various system information.

21 DTS indicators

DTS – Lights when a source with DTS encoded audio signals is detected.

HD – Lights when a source with DTS-EXPRESS or DTS-HD encoded audio signals is detected.

96/24 – Lights when a source with DTS 96/24 encoded audio signals is detected.

NEO:6 – When one of the NEO:6 modes of the receiver is on, this lights to indicate NEO:6 processing (page 25).

22 Dolby Digital indicators

D – Lights when a Dolby Digital encoded signal is detected.

D+ – Lights when a source with Dolby Digital Plus encoded audio signals is detected.

HD – Lights when a source with Dolby TrueHD encoded audio signals is detected.

PLII – Lights to indicate Pro Logic II decoding (see *Listening in surround sound* on page 25 for more on this).

23 ADV.S.
Lights when one of the Advanced Surround modes has been selected (see *Using the Advanced surround* on page 26 for more on this).

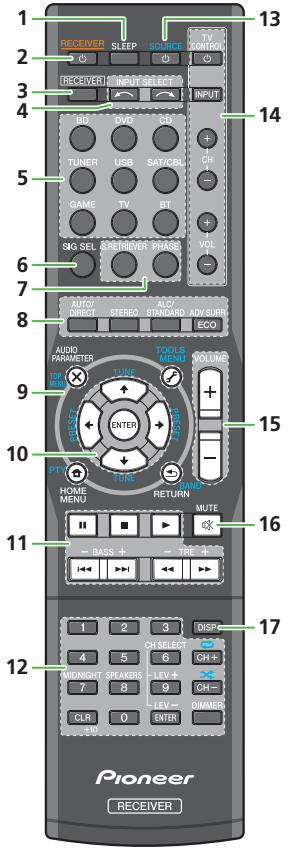
24 SIGNAL SELECT indicators

DIGITAL – Lights when a digital audio signal is selected. Blinks when a digital audio signal is selected and selected audio input is not provided.

HDMI – Lights when an HDMI signal is selected. Blinks when an HDMI signal is selected and selected HDMI input is not provided.

25 DIR.
Lights when the **DIRECT** or **PURE DIRECT** mode is switched on (page 26).

Remote control



As for operating other devices, the remote control codes for the Pioneer products are preset. The settings cannot be changed.

1 SLEEP
Press to change the amount of time before the receiver switches into standby (**30 min – 60 min – 90 min – Off**). You can check the remaining sleep time at any time by pressing **SLEEP** once.

2 ⏻RECEIVER
Switches the receiver between standby and on.

3 RECEIVER
Switches the remote to control the receiver (used to select the white commands above the number buttons (**MIDNIGHT**, etc)). Also use this button to set up surround sound (page 29) or Audio parameters (page 27).

4 INPUT SELECT ↶↷
Use to select the input source (page 19).

5 Input function buttons
Use to select the input source to this receiver (page 19). This will enable you to control other Pioneer components with the remote control.

6 SIG SEL
Press to select the audio input signal of the component to play back (page 19).

7 Sound control buttons

S.RETRIEVER – Press to restore CD quality sound to compressed audio sources (page 26).

PHASE – Press to switch on/off Phase Control (page 26).

8 Listening mode and component control buttons

AUTO/DIRECT – Switches between Auto surround mode (page 25) and Stream Direct playback (page 26).

STEREO – Press to select stereo playback (page 25).

ALC/STANDARD SURR – Press for standard decoding and to switch between the modes of DD Pro Logic II and NEO:6, and the Auto level control stereo mode (page 25).

ADV SURR – Switches between the various surround modes (page 26).

ECO – Switches between ECO Mode 1/ECO Mode 2. When ECO Mode is turned **ON**, the display will go dark (page 26).

9 Receiver and component control buttons
The following button controls can be accessed after you have selected the corresponding input function button (**BD**, **DVD**, etc.).

Press RECEIVER first to access:

AUDIO PARAMETER – Use to access the Audio options (page 27).

HOME MENU – Press to access the Home Menu (page 29).

RETURN – Confirm and exit the current menu screen.

Press **BD** or **DVD** first to access:

TOP MENU – Displays the disc 'top' menu of a Blu-ray Disc/DVD.

HOME MENU – Displays the HOME MENU screen.

RETURN – Confirm and exit the current menu screen.

MENU – Displays the TOOLS menu of Blu-ray Disc player.

Press **TUNER** first to access:

TOOLS – Memorizes stations for recall, also used to change the name (page 24).

BAND – Switches between AM, FM ST (stereo) and FM MONO radio bands (page 23).

10 ⬆/⬇/⬅/➡ (TUNE ⬆/⬇, PRESET ⬅/➡), ENTER
Use the arrow buttons when setting up your surround sound system (page 29). Also used to control Blu-ray Disc/DVD menus/options.

Use **TUNE** ⬆/⬇ can be used to find radio frequencies and **PRESET** ⬅/➡ can be used to select preset radio stations (page 24).

11 Component control buttons
The main buttons (▶, ■, etc.) are used to control a component after you have selected it using the input function buttons.
The controls above these buttons can be accessed after you have selected the corresponding input function button (**BD**, **DVD** and **CD**). These buttons also function as described below.
Press RECEIVER first to access:

BASS +/–, **TRE +/–** – Use to adjust Bass or Treble.
- These controls are disabled when the listening mode is set to **DIRECT** or **PURE DIRECT**.
- When the front speaker is set at **SMALL** in the Speaker Setting and the X.Over is set above 150 Hz, the subwoofer channel level will be adjusted by pressing **BASS +/–** (page 30).

12 Number buttons and other component controls
Use the number buttons to directly select a radio frequency (page 23) or the tracks on a CD, etc. There are other buttons that can be accessed after RECEIVER is pressed. (For example **MIDNIGHT**, etc.)

CH SELECT – Press repeatedly to select a channel, then use **LEV +/–** to adjust the level (page 30).

LEV +/– – Use to adjust the channel level.

MIDNIGHT – Switches to Midnight or Loudness listening (page 27).

SPEAKERS – Use to change the speaker system on or off. When the **SP OFF** is selected, no sound is output from the speakers connected to this receiver.

DIMMER – Dims or brightens the display. The brightness can be controlled in four steps.

During ECO mode, the brightness switches between 2 levels. If the dimmest level is selected, DIMMER will be shown on the display. (Mode other than ECO: 4 levels, ECO mode: 2 levels)

13 ⏻SOURCE
Turns on or off the power of the Pioneer DVD/DVR units when **BD**, **DVD** or **CD** is selected using the input function buttons.

14 TV CONTROL buttons
These buttons can control only be used with Pioneer TVs.

⏻ – Use to turn on/off the power of the TV.

INPUT – Use to select the TV input signal.

CH +/– – Use to select channels.

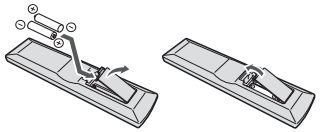
VOL +/– – Use to adjust the volume on your TV.

15 VOLUME +/–
Use to set the listening volume.

16 MUTE
Mutes/unmutes the sound.

17 DISP
Switches the display of this unit. The listening mode, sound volume or input name can be checked by selecting an input source.

Loading the batteries



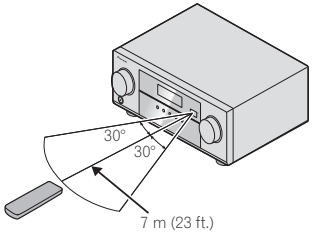
The batteries included with the unit are to check initial operations; they may not last over a long period. We recommend using alkaline batteries that have a longer life.

⚠ WARNING
- Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

⚠ CAUTION
- Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions:
  - Never use new and old batteries together.
  - Insert the plus and minus sides of the batteries properly according to the marks in the battery case.
  - Batteries with the same shape may have different voltages. Do not use different batteries together.
  - When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.
  - When inserting the batteries, make sure not to damage the springs on the battery's (–) terminals. This can cause batteries to leak or overheat.

Operating range of remote control

The remote control may not work properly if:
- There are obstacles between the remote control and the receiver's remote sensor.
- Direct sunlight or fluorescent light is shining onto the remote sensor.
- The receiver is located near a device that is emitting infrared rays.
- The receiver is operated simultaneously with another infrared remote control unit.

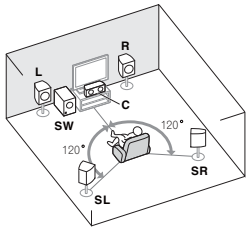


Connecting your equipment

Placing the speakers

By connecting the left and right front speakers (**L**/**R**), the center speaker (**C**), the left and right surround speakers (**SL**/**SR**), and the subwoofer (**SW**), a 5.1 ch surround system can be enjoyed. To achieve the best possible surround sound, install your speakers as shown below.

5.1 channel surround system:



Hints on the speaker placement

Where you put your speakers in the room has a big effect on the quality of the sound. The following guidelines should help you to get the best sound from your system.

- The subwoofer can be placed on the floor. Ideally, the other speakers should be at about ear-level when you're listening to them. Putting the speakers on the floor (except the subwoofer), or mounting them very high on a wall is not recommended.
- For the best stereo effect, place the front speakers 2 m to 3 m (6 ft. to 9 ft.) apart, at equal distance from the TV.
- If you're going to place speakers around your CRT TV, use shielded speakers or place the speakers at a sufficient distance from your CRT TV.
- If you're using a center speaker, place the front speakers at a wider angle. If not, place them at a narrower angle.
- Place the center speaker above or below the TV so that the sound of the center channel is localized at the TV screen. Also, make sure the center speaker does not cross the line formed by the leading edge of the front left and right speakers.
- It is best to angle the speakers towards the listening position. The angle depends on the size of the room. Use less of an angle for bigger rooms.
- Surround speakers should be positioned 60 cm to 90 cm (2 ft. to 3 ft.) higher than your ears and titled slight downward. Make sure the speakers don't face each other. For DVD-Audio, the speakers should be more directly behind the listener than for home theater playback.
- Try not to place the surround speakers farther away from the listening position than the front and center speakers. Doing so can weaken the surround sound effect.

CAUTION

- Make sure that all speakers are securely installed. This not only improves sound quality, but also reduces the risk of damage or injury resulting from speakers being knocked over or falling in the event of external shocks such as earthquakes.

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Connecting the speakers

The receiver will work with just two stereo speakers (the front speakers in the diagram) but using at least three speakers is recommended, and a complete setup is best for surround sound.

Make sure you connect the speaker on the right to the right (**R**) terminal and the speaker on the left to the left (**L**) terminal. Also make sure the positive and negative (**+**/**–**) terminals on the receiver match those on the speakers.

You can use speakers with a nominal impedance between 6 Ω and 16 Ω.

Be sure to complete all connections before connecting this unit to the AC power source.

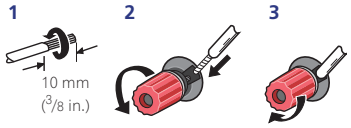
Bare wire connections

Front speaker terminals:

1 **Twist exposed wire strands together.**

2 **Loosen terminal and insert exposed wire.**

3 **Tighten terminal.**

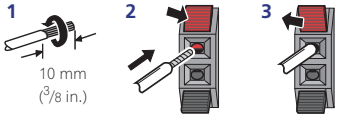


Center and surround speaker terminals:

1 **Twist exposed wire strands together.**

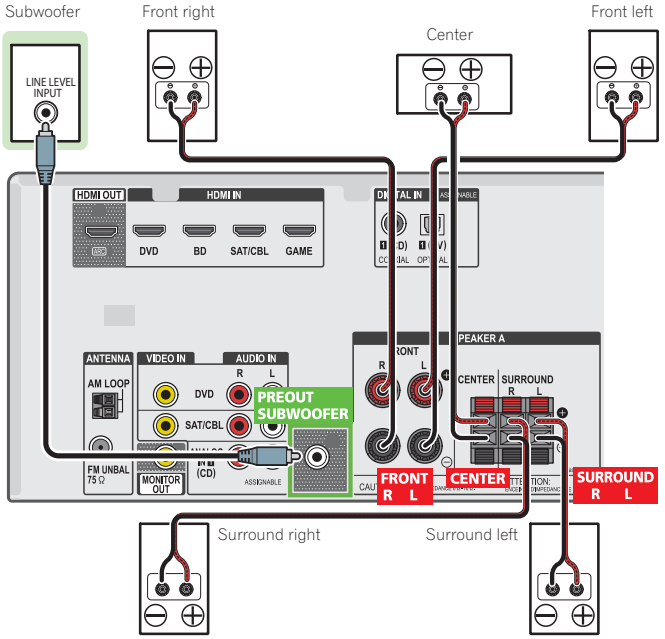
2 **Push open the tabs and insert exposed wire.**

3 **Release the tabs.**



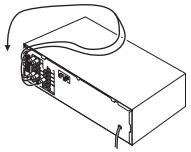
CAUTION

- These speaker terminals carry **HAZARDOUS LIVE voltage**. To prevent the risk of electric shock when connecting or disconnecting the speaker cables, disconnect the power cord before touching any uninsulated parts.
- Make sure that all the bare speaker wire is twisted together and inserted fully into the speaker terminal. If any of the bare speaker wire touches the back panel it may cause the power to cut off as a safety measure.



Making cable connections

Make sure not to bend the cables over the top of this unit (as shown in the illustration). If this happens, the magnetic field produced by the transformers in this unit may cause a humming noise from the speakers.

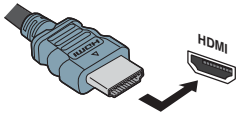


Important

- Before making or changing connections, switch off the power and disconnect the power cord from the AC outlet.
- Before unplugging the power cord, switch the power into standby.

HDMI cables

Both video and sound signals can be transmitted simultaneously with one cable. If connecting the player and the TV via this receiver, for both connections, use HDMI cables.



Be careful to connect the terminal in the proper direction.

Note

- Set the HDMI parameter in *Setting the Audio options* on page 27 to **THRU** (THROUGH) and set the input signal in *Selecting the audio input signal* on page 19 to **HDMI**, if you want to hear HDMI audio output from your TV (no sound will be heard from this receiver).
- If the video signal does not appear on your TV, try adjusting the resolution settings on your component or display. Note that some components (such as video game units) have resolutions that may not be displayed. In this case, use a (analog) composite connection.
- When the video signal from the HDMI is 480i, 480p, 576i or 576p, Multi Ch PCM sound and HD sound cannot be received.

About HDMI

The HDMI connection transfers uncompressed digital video, as well as almost every kind of digital audio that the connected component is compatible with, including DVD-Video, DVD-Audio, SACD, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio (see below for limitations), Video CD/ Super VCD and CD.

This receiver incorporates High-Definition Multimedia Interface (HDMI®) technology.

This receiver supports the functions described below through HDMI connections.

- Digital transfer of uncompressed video (contents protected by HDCP (1080p/24, 1080p/60, etc.))
- 3D signal transfer
- Deep Color signal transfer
- x.v.Color signal transfer
- Audio Return Channel (see *The HDMI Setup menu* on page 32)
- Input of multi-channel linear PCM digital audio signals (192 kHz or less) for up to 8 channels
- Input of the following digital audio formats:
  – Dolby Digital, Dolby Digital Plus, DTS, High bitrate audio (Dolby TrueHD, DTS-HD Master Audio), DVD-Audio, CD, SACD (DSD 2 ch only), Video CD, Super VCD
- 4K signal transfer
  – This may not operate properly, depending on the connected equipment.
  – 4K 24p, 4K 25p, 4K 30p, 4K 50p and 4K 60p signals are supported
- HDCP 2.2 compatible terminal:

Note

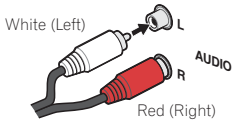
- Use a High Speed HDMI®/™ Cable. If HDMI cable other than a High Speed HDMI®/™ Cable is used, it may not work properly.
- When an HDMI cable with a built-in equalizer is connected, it may not operate properly.
- 3D, Deep Color, x.v.Color, 4K signal transfer and Audio Return Channel are only possible when connected to a compatible component.
- HDMI format digital audio transmissions require a longer time to be recognized. Due to this, interruption in the audio may occur when switching between audio formats or beginning playback.
- Turning on/off the device connected to this unit's HDMI OUT terminal during playback, or disconnecting/ connecting the HDMI cable during playback, may cause noise or interrupted audio.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and other countries.

"x.v.Color" and x.v.Color *are trademarks of Sony Corporation.*

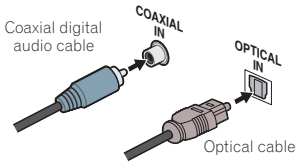
Analog audio cables

Use stereo RCA phono cables to connect analog audio components. These cables are typically red and white, and you should connect the red plugs to R (right) terminals and white plugs to L (left) terminals.



Digital audio cables

Commercially available coaxial digital audio cables or optical cables should be used to connect digital components to this receiver.



Note

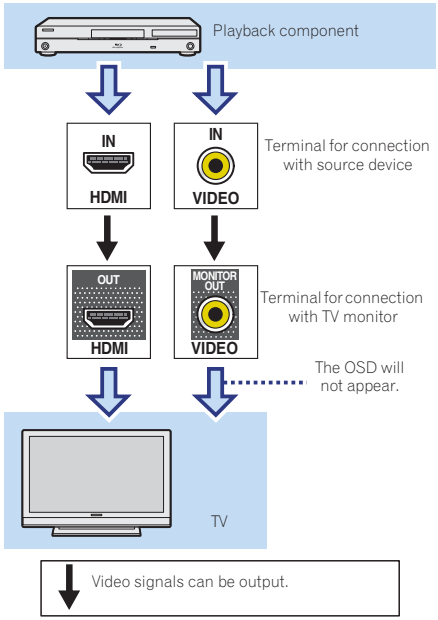
- When connecting optical cables, be careful when inserting the plug not to damage the shutter protecting the optical socket.
- When storing optical cable, coil loosely. The cable may be damaged if bent around sharp corners.
- You can also use a standard RCA video cable for coaxial digital connections.

Standard RCA video cables

These cables are the most common type of video connection and are used to connect to the composite video terminals. The yellow plugs distinguish them from cables for audio.

About video outputs connection

This receiver is not loaded with a video converter. When you use HDMI cables for connecting to the input device, the same cables should be used for connecting to the TV.
The signals input from the analog (composite) video inputs of this unit will not be output from the **HDMI OUT**.



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Connecting a TV and playback components

Connecting using HDMI

If you have an HDMI or DVI (with HDCP) equipped component (Blu-ray Disc player, etc.), you can connect it to this receiver using a commercially available HDMI cable.

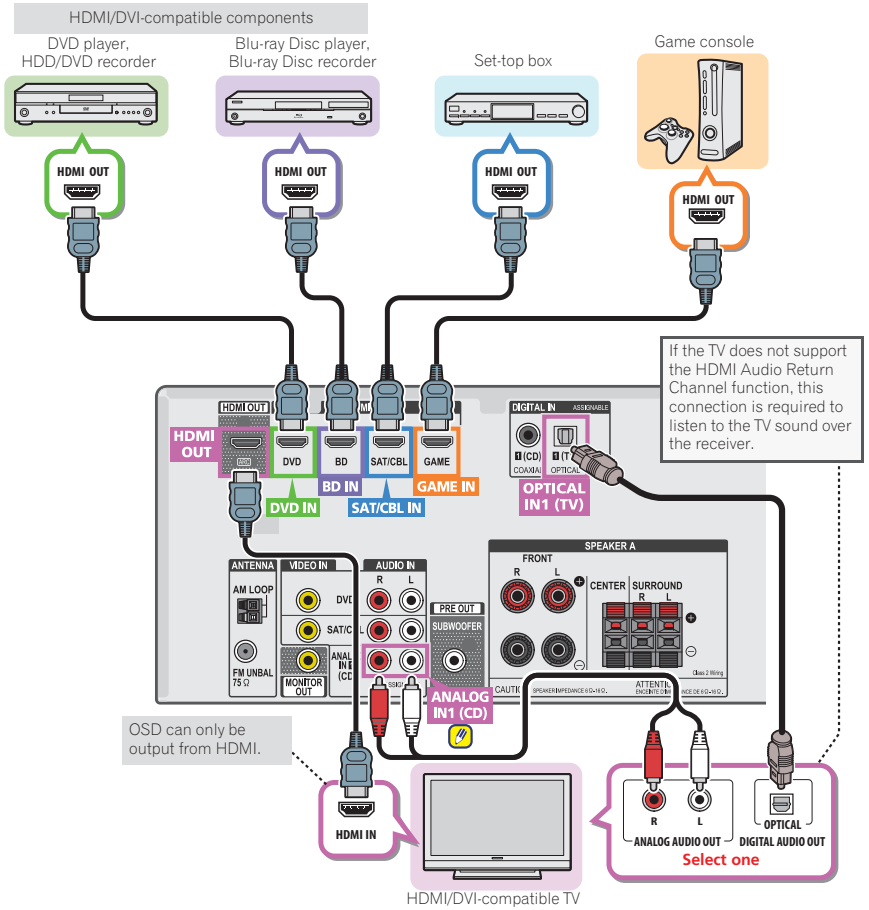
- The following connection/setting is required to listen to the sound of the TV over this receiver.
  - If the TV does not support the HDMI Audio Return Channel function, connect the receiver and TV with audio cables (as shown).
  - If the TV supports the HDMI Audio Return Channel function, the sound of the TV is input to the receiver via the HDMI terminal, so there is no need to connect an audio cable. In this case, set **ARC** at **HDMI Setup** to **ON** (see *The HDMI Setup menu* on page 32).
  - Please refer to the TV's operation manual for directions on connections and setup for the TV.

Important

- When the ARC function is **ON** and the receiver is connected to a compatible TV with an HDMI cable, and you switch the input of the TV to composite, the input of the receiver may automatically switch to **TV**. If this happens, switch the receiver's input back to the original input, or turn **OFF** the ARC function (see *The HDMI Setup menu* on page 32).

Note

- In order to listen to the audio from the TV that is connected to this receiver using an analog audio cables, set-up for analog audio input is required (see *The Input Assign menu* on page 31).



Connecting your component with no HDMI terminal

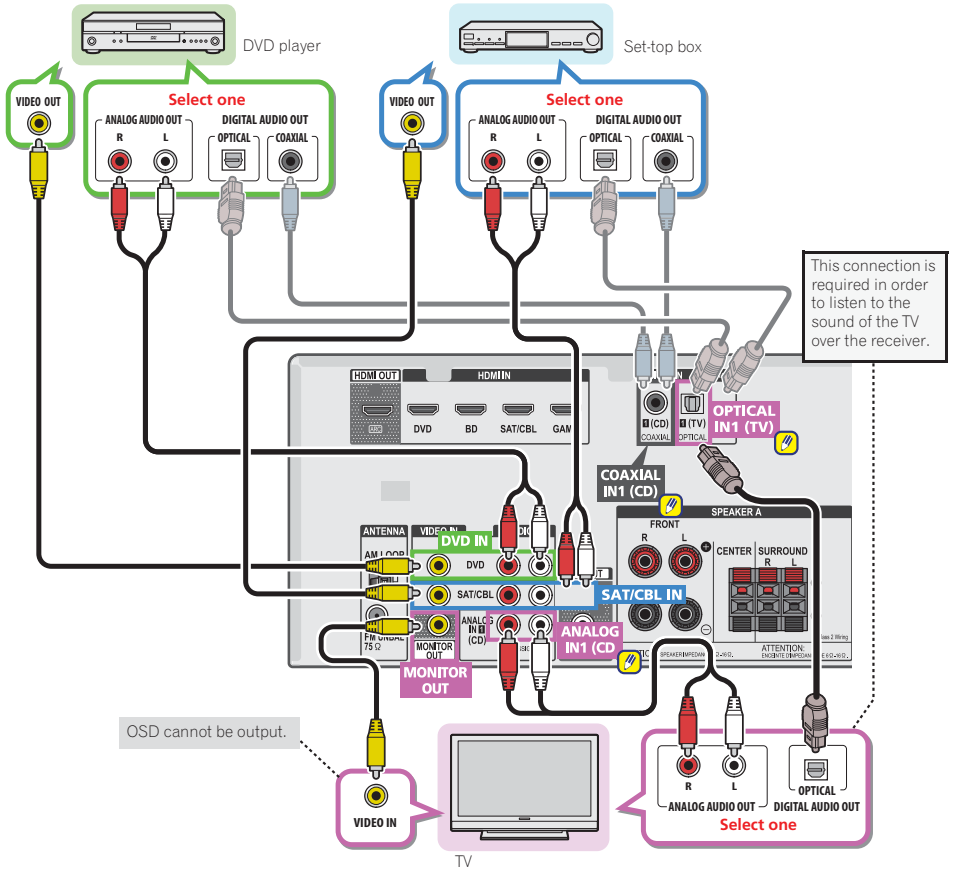
This diagram shows connections of a TV and DVD player (or other playback component) with no HDMI terminal to the receiver.

Important

- When the receiver and TV are connected by composite cable, the OSD function allowing display of the receiver's settings, operations, etc., on the TV's screen cannot be used. In this case, watch the receiver's front panel display while performing the various operations and making settings.

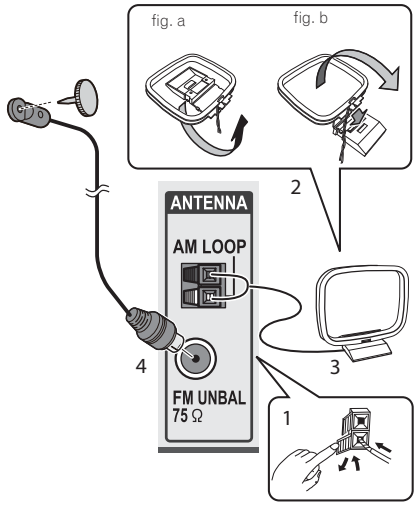
Note

- In order to listen to the audio from the TV that is connected to this receiver using a analog audio cables, set-up for analog audio input is required (see *The Input Assign menu* on page 31).
- You can only connect one component to the optical input terminal. If connecting other devices, please use a different method to connect the audio.
  In order to listen to the audio from the source component that is connected to this receiver using an optical cable, first, switch to the **DVD** (DVD player) or **SAT/CBL** (set-top box), then press **SIGNAL SEL** to choose the audio signal **O1** (OPTICAL1) (see *Selecting the audio input signal* on page 19
- You can only connect one component to the coaxial input terminal. If connecting other devices, please use a different method to connect the audio.
  In order to listen to the audio from the source component that is connected to this receiver using a coaxial cable, first, switch to the **DVD** (DVD player) or **SAT/CBL** (set-top box), then press **SIGNAL SEL** to choose the audio signal **C1** (COAXIAL1) (see *Selecting the audio input signal* on page 19.



Connecting antennas

Connect the AM loop antenna and the FM wire antenna as shown below. To improve reception and sound quality, connect external antennas (see Using external antennas below).



1 Push open the tabs, then insert one wire fully into each terminal, then release the tabs to secure the AM antenna wires.

2 Fix the AM loop antenna to the attached stand.
To fix the stand to the antenna, bend in the direction indicated by the arrow (fig. a) then clip the loop onto the stand (fig. b).

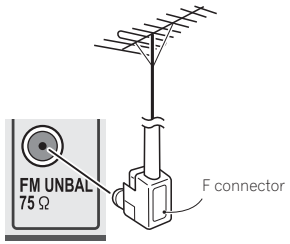
3 Place the AM antenna on a flat surface and in a direction giving the best reception.

4 Connect the FM wire antenna into the FM antenna socket.
For best results, extend the FM antenna fully and fix to a wall or door frame. Don't drape loosely or leave coiled up.

Using external antennas

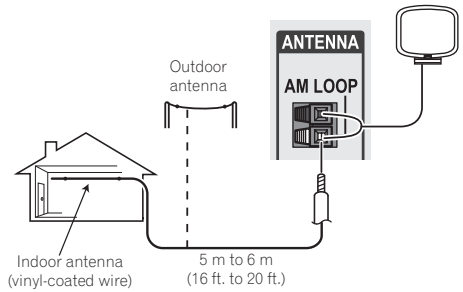
To improve FM reception

Use an F connector (not supplied) to connect an external FM antenna.



To improve AM reception

Connect a 5 m to 6 m (16 ft. to 20 ft.) length of vinyl-coated wire to the AM antenna terminal without disconnecting the supplied AM loop antenna.
For the best possible reception, suspend horizontally outdoors.

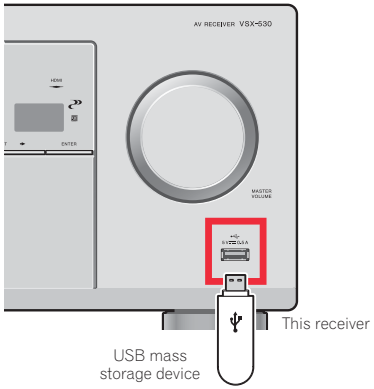


Connecting a USB device

It is possible to listen to two-channel audio using the USB interface on the front of this receiver.

▶ **Switch the receiver into standby then connect your USB device to the USB terminal on the front panel of this receiver.**

- It is not possible to connect an iPod/iPhone or a similar device to this receiver and play back music files.
- This receiver does not support a USB hub.
- For instructions on playing the USB device, see *Playing a USB device* on page 21.



Plugging in the receiver

Only plug in after you have connected all your components to this receiver, including the speakers.

▶ **Plug the AC power cord into a convenient AC power outlet.**

CAUTION

- Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.
- The receiver should be disconnected by removing the mains plug from the wall socket when not in regular use, e.g., when on vacation.

Note

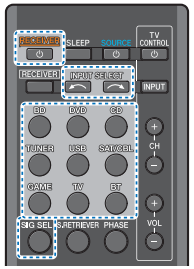
- After this receiver is connected to an AC outlet, a 2 second to 10 second HDMI initialization process begins. You cannot carry out any operations during this process. The **HDMI** indicator in the front panel display blinks during this process, and you can turn on this receiver once it has stopped blinking. When you set **ARC** at HDMI setup to **OFF**, you can skip this process. For details, see *The HDMI Setup menu* on page 32.

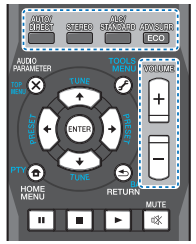
Chapter 3

Basic playback

Playing a source

Here are the basic instructions for playing a source (such as a DVD disc) with your home theater system.





1 **Switch on your system components and receiver.**

Start by switching on the playback component (for example a DVD player), your TV and subwoofer (if you have one), then the receiver (press ⏻**RECEIVER**).

2 **Switch the TV input to the input that connects this receiver.**

For example, if you connected this receiver to the **VIDEO** jacks on your TV, make sure that the **VIDEO** input is now selected.

3 **Press input function buttons to select the input function you want to play.**

- The input of the receiver will switch over, and you will be able to operate other components using the remote control. To operate the receiver, first press **RECEIVER** on the remote control, then press the appropriate button to operate.
- The input source can also be selected by using **INPUT SELECT** ↶↷ buttons on the remote control, or by using the front panel **INPUT SELECTOR** dial. In this case, the remote control won't switch operational modes.

If you selected the proper input source and there is still no sound, select the audio input signal for playback (see *Selecting the audio input signal* below).

4 **Press AUTO/DIRECT to select 'AUTO SURROUND' and start playback of the source.**

If you're playing a Dolby Digital or DTS surround sound DVD disc, with a digital audio connection, you should hear surround sound. If you're playing a stereo source or if the connection is an analog audio connection, you will only hear sound from the front left/right speakers in the default listening mode.

It is possible to check on the front panel display whether or not surround sound playback is being performed properly.

If the display does not correspond to the input signal and listening mode, check the connections and settings.

Note

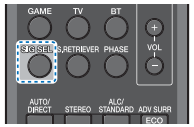
- You may need to check the digital audio output settings on your DVD player or digital satellite receiver. It should be set to output Dolby Digital, DTS and 88.2 kHz/96 kHz PCM (2 channel) audio, and if there is an MPEG audio option, set this to convert the MPEG audio to PCM.
- Depending on your DVD player or source discs, you may only get digital 2 channel stereo and analog sound. In this case, the receiver must be set to a multichannel listening mode if you want multichannel surround sound.

5 **Use VOLUME +/– to adjust the volume level.**

Turn down the volume of your TV so that all sound is coming from the speakers connected to this receiver.

Selecting the audio input signal

The audio input signal can be selected for each input source. Once it is set, the audio input that was selected will be applied whenever you select the input source using the input function buttons.



Press SIGNAL SEL to select the audio input signal corresponding to the source component.

Each press cycles through the following:

- **H** – Selects an HDMI signal. **H** can be selected for **BD**, **DVD**, **SAT/CBL** or **GAME** input. For other inputs, **H** cannot be selected.
  - When the **HDMI** option in *Setting the Audio options* on page 27 is set to **THRU**, the sound will be heard through your TV, not from this receiver.
- **A** – Selects the analog inputs.
- **C1**/**O1** – Selects the digital input. The coaxial 1 input is selected for **C1**, and the optical 1 audio input is selected for **O1**.

When **H** (HDMI) or **C1**/**O1** (digital) is selected and the selected audio input is not provided, **A** (analog) is automatically selected.

Note

- **BD** and **GAME** inputs are fixed to **H** (HDMI). It cannot be changed.
- For the **TV** input, only **A** (analog) or **C1**/**O1** (digital) can be selected. However, if the **ARC** at **HDMI Setup** is set to **ON**, the input is fixed to **H** (HDMI) and cannot be changed.
- When set to **H** (HDMI) or **C1**/**O1** (digital), 2 lights when a Dolby Digital signal is input, and **DTS** lights when a DTS signal is input.
- When the **H** (HDMI) is selected, the **A** and **DIGITAL** indicators are off (see page 8).
- When digital input (optical or coaxial) is selected, this receiver can only play back Dolby Digital, PCM (32 kHz to 96 kHz) and DTS (including DTS 96 kHz/24 bit) digital signal formats. The compatible signals via the HDMI terminals are: Dolby Digital, DTS, SACD (DSD 2 ch only), PCM (32 kHz to 192 kHz sampling frequencies), Dolby TrueHD, Dolby Digital Plus, DTS-EXPRESS, DTS-HD Master Audio and DVD Audio (including 192 kHz). With other digital signal formats, set to **A** (analog).
- You may get digital noise when a LD or CD player compatible with DTS is playing an analog signal. To prevent noise, make the proper digital connections (page 14) and set the signal input to **C1**/**O1** (digital).

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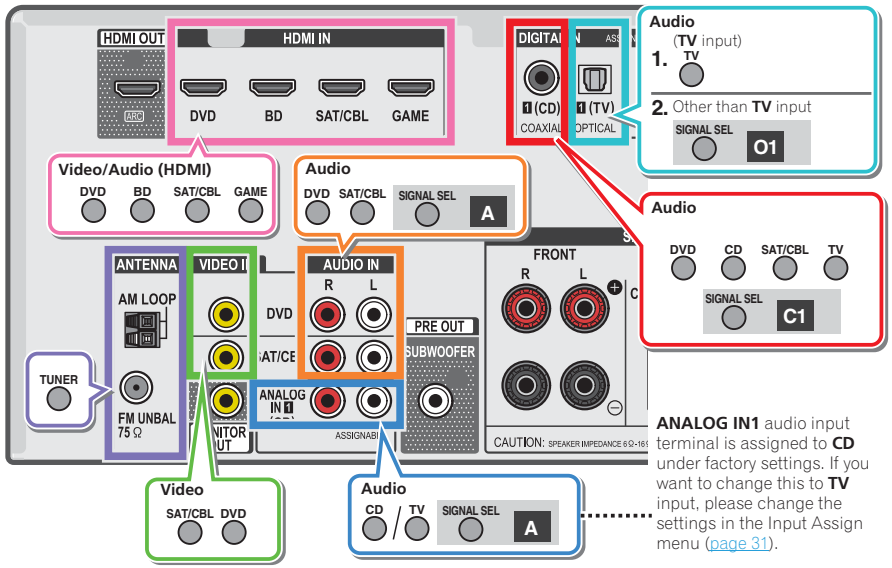
- Some DVD players don't output DTS signals. For more details, refer to the instruction manual supplied with your DVD player.

Tip

- In order to enjoy the picture and/or sound from devices connected to each terminal, select the input by doing the following.



ANALOG IN1 audio input terminal is assigned to **CD** under factory settings. If you want to change this to **TV** input, please change the settings in the Input Assign menu (page 31).

Playing a USB device

It is possible to listen to two-channel audio using the USB interface on the front of this receiver.

Important

- Pioneer cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and assumes no responsibility for any loss of data that may occur when connected to this receiver.

Note

- This includes playback of WMA/MP3/MPEG-4 AAC files (except files with copy-protection or restricted playback).
- Compatible USB devices include external magnetic hard drives, portable flash memory (particularly keydrives) and digital audio players (MP3 players) of format FAT16/32. It is not possible to connect this receiver to a personal computer for USB playback.
- With large amounts of data, it may take longer for the receiver to read the contents of a USB device.
- If the file selected cannot be played back, this receiver automatically skips to the next file playable.
- When the file currently being played back has no title assigned to it, the file name is displayed in the OSD instead; when neither the album name nor the artist name is present, the row is displayed as a blank space.
- Note that non-roman characters in the playlist are displayed as '*'.
- Make sure the receiver is in standby when disconnecting the USB device.

1 **Switch on the receiver and your TV.**

See *Connecting a USB device* on page 18.

2 **Switch the TV input so that it connects to the receiver.**

- Switch the TV input to the input that connects this receiver to the TV through the corresponding HDMI cable.

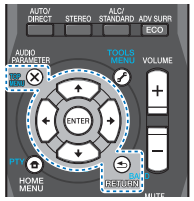
3 **Press USB on the remote control to switch the receiver to the USB input.**

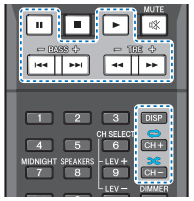
Loading appears in the OSD as this receiver starts recognizing the USB device connected. After the recognition, a playback screen appears in the OSD and playback starts automatically.

Basic playback controls

This receiver's remote control buttons can be used for basic playback of files stored on USB devices.

- Press **USB** to switch the remote control to the USB operation mode.





Important

If a **USB Error** message lights in the display, try following the points below:

- Switch the receiver off, then on again.
- Reconnect the USB device with the receiver switched off.
- Select another input source (like **BD**), then switch back to **USB**.
- Use a dedicated AC adapter (supplied with the device) for USB power.

For more information on error messages, see *USB messages* on page 34.

If this doesn't remedy the problem, it is likely your USB device is incompatible.

Compressed audio compatibility

Note that although most standard bit/sampling rate combinations for compressed audio are compatible, some irregularly encoded files may not play back. The list below shows compatible formats for compressed audio files:

- **MP3** (MPEG-1/2/2.5 Audio Layer 3) – Sampling rates: 32 kHz/44.1 kHz/48 kHz; Bit rates: 32 kbps to 320 kbps (128 kbps or higher recommended); File extension: **.mp3**
- **WMA** (Windows Media Audio) – Sampling rates: 32 kHz/44.1 kHz/48 kHz; Bit rates: 48 kbps to 192 kbps (128 kbps or higher recommended); File extension: **.wma**; WMA9 Pro and WMA lossless encoding: No
- **AAC** (MPEG-4 Advanced Audio Coding) – Sampling rates: 32 kHz/44.1 kHz/48 kHz; Bit rates: 16 kbps to 320 kbps (128 kbps or higher recommended); File extension: **.m4a**; Apple lossless encoding: No

Other compatibility information

- VBR (variable bit rate) MP3/WMA/MPEG-4 AAC playback: Yes (Note that in some cases playback time will not be displayed correctly.)
- Copyrighted audio files cannot be played back on this receiver.
- DRM-protected audio files cannot be played back on this receiver.

About MPEG-4 AAC

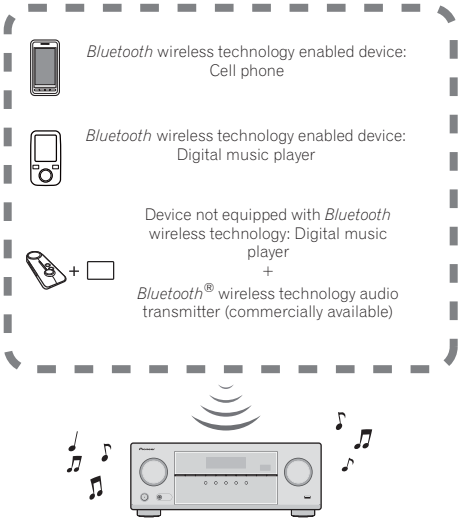
Advanced Audio Coding (AAC) is at the core of the MPEG-4 AAC standard, which incorporates MPEG-2 AAC, forming the basis of the MPEG-4 audio compression technology. The file format and extension used depend on the application used to encode the AAC file. This receiver plays back AAC files encoded by iTunes® bearing the extension '**.m4a**'. DRM-protected files will not play, and files encoded with some versions of iTunes® may not play.

Apple and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.

About WMA

WMA is an acronym for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation. This receiver plays back WMA files encoded using Windows Media® Player bearing the extension '**.wma**'. Note that DRM-protected files will not play, and files encoded with some versions of Windows Media® Player may not play.

Music playback using *Bluetooth*® wireless technology



The unit is capable of playing back music stored on *Bluetooth* capable devices (cell phones, digital music players etc.) wirelessly. You can also use a *Bluetooth* audio transmitter (sold separately) to enjoy music from devices that do not have *Bluetooth* functionality. Please refer to the user's manual for your *Bluetooth* capable device for more details.

Note

- The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by PIONEER CORPORATION is under license. Other trademarks and trade names are those of their respective owners.
- The *Bluetooth* wireless technology enabled device must support A2DP profiles.
- Pioneer does not guarantee proper connection and operation of this unit with all *Bluetooth* wireless technology enabled devices.

Pairing with the unit (Initial registration)

In order for the unit to playback music stored on a *Bluetooth* capable device, pairing must first be performed. Pairing should be performed when first using the unit with the *Bluetooth* capable device, or when the pairing data on the device has been erased for any reason.

Pairing is a step required to allow communication using *Bluetooth* wireless technology to be carried out.

- Pairing is only performed the first time that you use the unit and the *Bluetooth* capable device together.
- In order to allow communication using *Bluetooth* wireless technology to take place, pairing must be performed on both the unit and the *Bluetooth* capable device.
- After pressing the **BT** and switching to **BT Audio** function, perform the pairing procedure on the *Bluetooth* capable device. If pairing has been performed correctly, you will not need to perform the pairing procedures for the unit as shown below.

Please refer to the user's manual for your *Bluetooth* capable device for more details.

1 **Press the ⏻ RECEIVER and turn the power to the unit on.**

2 **Press the BT.**

3 **Turn on the power to the *Bluetooth* capable device that you wish to pair with, and perform pairing procedure on it.**

Note

- This unit will be displayed as "Pioneer AVR" on all *Bluetooth* capable devices that you have.

Pairing will start.

- Place the *Bluetooth* capable device close to the unit.
- Please refer to the user's manual for your *Bluetooth* capable device for details on when pairing can be performed and the procedures required for pairing.
- When PIN code entry is requested, enter "**0000**." (This unit does not accept any PIN code setting other than "**0000**.")

4 **Confirm on the *Bluetooth* capable device that pairing has been completed.**

If pairing with the *Bluetooth* capable device has been completed correctly "CONNECT" will be displayed.

Listen to music on the unit from a *Bluetooth* capable device

1 **Press the BT.**

The unit will switch to **BT Audio** input.

2 **A *Bluetooth* connection will be created between the *Bluetooth* capable device and the unit.**

Procedures for connecting to the unit should be performed from the *Bluetooth* capable device.

- Please refer to the user's manual for your *Bluetooth* capable device for details of the connection procedures.

3 **Playback music from the *Bluetooth* capable device.**

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Note

- When *Bluetooth* capable device is not connected and no operations have been performed for the length of time set under Settings for Auto Power Down, the unit will automatically power off. Please set it to any setting other than "**OFF**" under Settings.
- Auto Power Down can select 2, 4, or 6 hours or OFF (default setting). (page 31).

Radio wave caution

This unit uses a 2.4 GHz radio wave frequency, which is a band used by other wireless systems (see list below). To prevent noise or interrupted communication, do not use this unit nearby such devices, or make sure these devices are switched off during use.

- Cordless phones
- Cordless facsimiles
- Microwave ovens
- Wireless LAN devices (IEEE802.11b/g)
- Wireless AV equipment
- Wireless controllers for game systems
- Microwave-based health aids
- Some baby monitors

Other, less common, equipment that may operate on the same frequency:

- Anti-theft systems
- Amateur radio stations (HAM)
- Warehouse logistic management systems
- Discrimination systems for train or emergency vehicles

Note

- In the event noise appears in your television image, there is the possibility that a *Bluetooth* wireless technology enabled device or this unit (including products supported by this unit) are causing signal interference with the antenna input connector of your television, video, satellite tuner, etc. In this event, increase the distance between the antenna input connector and the *Bluetooth* wireless technology enabled device or this unit (including products supported by this unit).
- If there is something obstructing the path between this unit (including devices supported by this unit) and the device equipped with *Bluetooth* wireless technology (such as a metal door, concrete wall, or insulation containing tinfoil), you may need to change the location of your system to prevent signal noise and interruptions.

Scope of operation

Use of this unit is limited to home use. (Transmission distances may be reduced depending on communication environment).

In the following locations, poor condition or inability to receive radio waves may cause the audio to be interrupted or stopped:

- In reinforced concrete buildings or steel framed or iron-framed buildings.
- Near large metallic furniture.
- In a crowd of people or near a building or obstacle.
- In a location exposed to the magnetic field, static electricity or radio wave interference from radio communication equipment using the same frequency band (2.4 GHz) as this unit, such as a 2.4 GHz wireless LAN device (IEEE802.11b/g) or microwave oven.
- If you live in a heavily populated residential area (apartment, townhouse, etc.) and if your neighbor's microwave is placed near your system, you may experience radio wave interference. If this occurs, move your unit to a different place. When the microwave is not in use, there will be no radio wave interference.

Radio wave reflections

The radio waves received by this unit include the radio wave coming directly from the device equipped with *Bluetooth* wireless technology (direct wave) and waves coming from various directions due to reflections by walls, furniture and building (reflected waves). The reflected waves (due to obstacles and reflecting objects) further produce a variety of reflected waves as well as variation in reception condition depending on locations. If the audio cannot be received properly due to this phenomenon, try moving the location of the device equipped with *Bluetooth* wireless technology a little. Also note that audio may be interrupted due to the reflected waves when a person crosses or approaches the space between this unit and the device equipped with *Bluetooth* wireless technology.

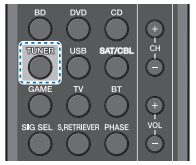
Precautions regarding connections to products supported by this unit

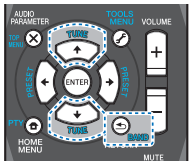
- Complete connections for all devices supported by this unit, including all audio cords and power cables before connecting them to this unit.
- After completing connections to this unit, check the audio and power cables to confirm that they not twisted together.
- When disconnecting this unit, confirm that you have sufficient working space in the surrounding area.

When changing connections of audio or other cables for products supported by this unit, confirm that you have sufficient working space in the surrounding area.

Listening to the radio

The following steps show you how to tune in to FM and AM radio broadcasts using the automatic (search) and manual (step) tuning functions. Once you are tuned to a station you can memorize the frequency for recall later—see *Saving station presets* below for more on how to do this.





1 **Press TUNER to select the tuner.**

2 **Use BAND to change the band (FM or AM), if necessary.**

Each press switches the band between FM (stereo or mono) and AM.

3 **Tune to a station.**

There are three ways to do this:

❖**Automatic tuning**

To search for stations in the currently selected band, press and hold **TUNE** ⬆/⬇ for about a second. The receiver will start searching for the next station, stopping when it has found one. Repeat to search for other stations.

❖**Manual tuning**
To change the frequency one step at a time, press **TUNE** ⬆/⬇.

❖**High speed tuning**
Press and hold **TUNE** ⬆/⬇ for high speed tuning.

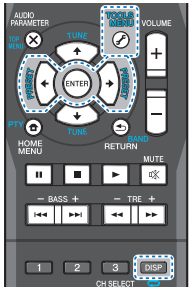
Improving FM sound

If the **TUNE** or **ST** indicators don't light when tuning to an FM station because the signal is weak, set the receiver to the mono reception mode.

▶ **Press BAND to select FM MONO.**
This should improve the sound quality and allow you to enjoy the broadcast.

Saving station presets

If you often listen to a particular radio station, it's convenient to have the receiver store the frequency for easy recall whenever you want to listen to that station. This saves the effort of manually tuning in each time. This unit can memorize up to 30 stations.



1 **Tune to a station you want to memorize.**
See *Listening to the radio* above for more on this.

2 **Press TOOLS.**
The display shows **PRESET**, then a blinking **MEM** and station preset.

3 **Press PRESET ⬅/➡ to select the station preset you want.**
You can also use the number buttons.

4 **Press ENTER.**
The preset number stop blinking and the receiver stores the station.

Note

- If the receiver is left disconnected from the AC power outlet for over a month, the station memories will be lost and will have to be reprogrammed.
- Stations are stored in stereo. When the station is stored in the FM MONO mode, it shows as **ST** when recalled.

Listening to station presets

You will need to have some presets stored to do this. See *Saving station presets* above if you haven't done this already.

▶ **Press PRESET ⬅/➡ to select the station preset you want.**
- You can also use the number buttons on the remote control to recall the station preset.

Naming preset stations

For easier identification, you can name all of your preset stations.

1 **Choose the station preset you want to name.**
See *Listening to station presets* above for how to do this.

2 **Press TOOLS twice.**
The cursor at the first character position is blinking on the display.

3 **Input the name you want.**
Choose a name up to eight characters long.
- Use **PRESET** ⬅/➡ to select character position.
- Use **TUNE** ⬆/⬇ to select characters.
- The name is stored when **ENTER** is pressed.

Tip

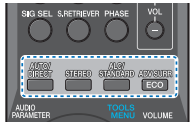
- To erase a station name, follow steps 1 and 2, and press **ENTER** while the display is blank. Press **TOOLS** while the display is blank, to keep the previous name.
- Once you have named a station preset, Press **DISP** to show the name. When you want to return to the frequency display, press **DISP** several times to show the frequency.

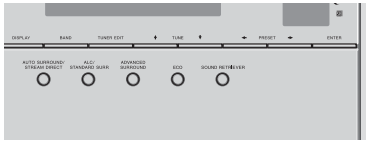
Listening to your system

Choosing the listening mode

This receiver offers a variety of listening modes to accommodate playback of various audio formats. Choose one according to your speaker environment or the source.

While listening to a source, press the listening mode button repeatedly to select a listening mode you want.





- The listening mode is shown on the display on the front panel.

Important

- The listening modes and many features described in this section may not be available depending on the current source, settings and status of the receiver.

Auto playback

The simplest, most direct listening option is the **AUTO SURROUND** feature. With this, the receiver automatically detects what kind of source you're playing and selects multichannel or stereo playback as necessary.

- Press **AUTO/DIRECT** repeatedly until **AUTO SURROUND** shows briefly in the display (it will then show the decoding or playback format). Check the digital format indicators in the display to see how the source is being processed.

Note

- Stereo surround (matrix) formats are decoded accordingly using **NEO:6 CINEMA** (see *Listening in surround sound* below for more on these decoding formats).

Listening in surround sound

Using this receiver, you can listen to any source in surround sound. However, the options available will depend on your speaker setup and the type of source you're listening to.

- If the source is Dolby Digital, DTS, or Dolby Surround encoded, the proper decoding format will automatically be selected and shows in the display.

When you select **STEREO ALC** (Auto Level Control stereo mode), this unit equalizes playback sound levels if each sound level varies with the music source recorded in a portable audio player.

When you select **STEREO**, you will hear the source through just the front left and right speakers (and possibly your subwoofer depending on your speaker settings). Dolby Digital and DTS multichannel sources are downmixed to stereo.

The following modes provide basic surround sound for stereo and multichannel sources.

Explanatory notes

No: No connected / Yes: Connected / Two: Two speakers are connected / –: Whether connected or no

Type of surround modes	Suitable sources
Two channel sources	
STEREO ALC	See above.
DOLBY PLII MOVIE	Movie
DOLBY PLII MUSIC[a]	Music
DOLBY PLII GAME	Video games
NEO:6 CINEMA[b]	Movie
NEO:6 MUSIC[b]	Music
DOLBY PRO LOGIC	Old movies
Straight Decode	No additional effects
STEREO[c]	See above.
Multichannel sources	
STEREO ALC	See above.
Straight Decode	No additional effects
STEREO[c]	See above.

a. You can also adjust the **C.WIDTH**, **DIMEN.**, and **PNRM.** effect (see *Setting the Audio options* on page 27).

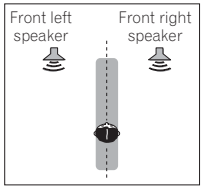
b. You can also adjust the **C.IMG** effect (see *Setting the Audio options* on page 27).

c. • You can choose the **STEREO** mode by using **STEREO** button.
• The audio is heard with your surround settings and you can still use the Midnight, Loudness, Phase Control, Sound Retriever and Tone functions.

Using the Advanced surround

ADV SURR ECO ADVANCED SURROUND

The Advanced surround feature creates a variety of surround effects. Try different modes with various soundtracks to see which you like.

ACTION	Designed for action movies with dynamic soundtracks.
DRAMA	Designed for movies with lots of dialog.
ADVANCED GAME	Suitable for video games.
SPORTS	Suitable for sports programs.
CLASSICAL	Gives a large concert hall-type sound.
ROCK/POP	Creates a live concert sound for rock and/or pop music.
EXT.STEREO	Gives multichannel sound to a stereo source, using all of your speakers.
F.S.S.ADVANCE (Front Stage Surround ADVANCE)	Allows you to create natural surround sound effects using just the front speakers and the subwoofer. Use to provide a rich surround sound effect directed to the center of where the front left and right speakers sound projection area converges. 
PHONES SURR	When listening through headphones, you can still get the effect of overall surround.
ECO MODE 1	Cut back on power consumption. Suitable for contents that are mainly high level (mainly music).
ECO MODE 2	Cut back on even more power consumption than **ECO MODE 1**. Suitable for contents with wider dynamic range (mainly movies).

Note

- During ECO mode, the brightness switches between 2 levels. If the dimmest level is selected, DIMMER will be shown on the display. (Mode other than ECO: 4 levels, ECO mode: 2 levels)
- ECO MODE will switch **OFF** automatically when switched to other listening modes (Advanced surround mode and Auto surround mode).

Using Stream Direct

AUTO/ DIRECT AUTO SURROUND/ STREAM DIRECT

Use the Stream Direct modes when you want to hear the truest possible reproduction of a source. All unnecessary signal processing is bypassed.

AUTO SURROUND	See *Auto playback* on page 25.
DIRECT	Sources are heard according to the settings made in the Manual SP Setup (speaker setting, channel level, speaker distance), as well as with dual mono settings. You will hear sources according to the number of channels in the signal. Phase Control, Sound Delay, Auto Delay, LFE Attenuate and Center image functions are available.
PURE DIRECT	Analog and PCM sources are heard without any digital processing.

Using the Sound Retriever

S.RETRIEVER SOUND RETRIEVER

When audio data is removed during the compression process, sound quality often suffers from an uneven sound image. The Sound Retriever feature employs new DSP technology that helps bring CD quality sound back to compressed 2-channel audio by restoring sound pressure and smoothing jagged artifacts left over after compression.

Press S.RETRIEVER to switch the S.RTV (Sound Retriever) ON or OFF.

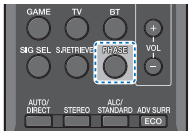
Note

- The Sound Retriever is only applicable to 2-channel sources.

Better sound using Phase Control

This receiver's Phase Control feature uses phase correction measures to make sure your sound source arrives at the listening position in phase, preventing unwanted distortion and/or coloring of the sound.

Phase Control technology provides coherent sound reproduction through the use of phase matching for an optimal sound image at your listening position. The default setting is on and we recommend leaving Phase Control switched on for all sound sources.



Press PHASE to switch the P.CTL (Phase Control) ON or OFF.

Note

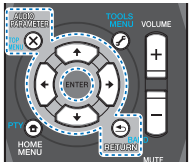
- Phase matching is a very important factor in achieving proper sound reproduction. If two waveforms are 'in phase', they crest and trough together, resulting in increased amplitude, clarity and presence of the sound signal. If a crest of a wave meets a trough, then the sound will be 'out of phase' and an unreliable sound image will be produced.
- If your subwoofer has a phase control switch, set it to the plus (+) sign (or 0°). However, the effect you can actually feel when Phase Control is set to **ON** on this receiver depends on the type of your subwoofer. Set your subwoofer to maximize the effect. It is also recommended you try changing the orientation or the place of your subwoofer.
- Set the built-in lowpass filter switch of your subwoofer to OFF. If this cannot be done on your subwoofer, set the cutoff frequency to a higher value.
- If the speaker distance is not properly set, you may not have a maximized Phase Control effect.
- The Phase Control mode cannot be set to **ON** in the following cases:
  - When the **PURE DIRECT** mode is switched on.
  - When the headphones are connected.

Setting the Audio options

There are a number of additional sound settings you can make using the **AUDIO PARAMETER** menu. The defaults, if not stated, are listed in bold.

Important

- Note that if a setting doesn't appear in the **AUDIO PARAMETER** menu, it is unavailable due to the current source, settings and status of the receiver.



1 **Press RECEIVER, then press AUDIO PARAMETER button.**

2 **Use ⬆/⬇ to select the setting you want to adjust.**
Depending on the current status/mode of the receiver, certain options may not be able to be selected. Check the table below for notes on this.

3 **Use ⬅/➡ to set it as necessary.**
See the table below for the options available for each setting.

4 **Press RETURN to confirm and exit the menu.**

Setting/What it does	Option(s)
S.DELAY (Sound Delay) Some monitors have a slight delay when showing video, so the soundtrack will be slightly out of sync with the picture. By adding a bit of delay, you can adjust the sound to match the presentation of the video.	*0 to 500 ms* *(1 step : 5 ms)* Default: **0**
MIDNIGHT/LOUDNESS[a] The **MIDNIGHT** allows you to hear effective surround sound of movies at low volumes. The **LOUDNESS** is used to get good bass and treble from music sources at low volumes.	**M/L OFF** *MIDNIGHT* *LOUDNESS*
S.RTV (Sound Retriever)[b] When audio data is removed during the compression process, sound quality often suffers from an uneven sound image. The Sound Retriever feature employs new DSP technology that helps bring CD quality sound back to compressed 2-channel audio by restoring sound pressure and smoothing jagged artifacts left over after compression.	**OFF**[c] *ON*
DUAL MONO[d] Specifies how dual mono encoded Dolby Digital soundtracks should be played.	**CH1** – Channel 1 is heard only *CH2* – Channel 2 is heard only *CH1 CH2* – Both channels heard from front speakers
F.PCM (Fixed PCM) This is useful if you find there is a slight delay before **OFF** recognizes the PCM signal on a CD, for instance. When **ON** is selected, noise may be output during playback of non-PCM sources. Please select another input signal if this is a problem.	**OFF** *ON*
DRC (Dynamic Range Control) Adjusts the level of dynamic range for movie soundtracks optimized for Dolby Digital, DTS, Dolby Digital Plus, Dolby TrueHD, DTS-HD and DTS-HD Master Audio (you may need to use this feature when listening to surround sound at low volumes).	**AUTO**[e] *MAX* *MID* *OFF*

Setting/What it does	Option(s)
LFE ATT (LFE Attenuate) Some Dolby Digital and DTS audio sources include ultra-low bass tones. Set the LFE attenuator as necessary to prevent the ultra-low bass tones from distorting the sound from the speakers. The LFE is not limited when set to 0 dB, which is the recommended value. When set to –15 dB, the LFE is limited by the respective degree. When OFF is selected, no sound is output from the LFE channel.	**0** (0 dB) *5 (–5 dB)* *10 (–10 dB)* *15 (–15 dB)* *20 (–20 dB)* *** (OFF)*
SACD G. (SACD Gain)[f] Brings out detail in SACDs by maximizing the dynamic range (during digital processing).	**0** (0 dB) *+6 (+6 dB)*
HDMI (HDMI Audio) Specifies the routing of the HDMI audio signal out of this receiver (**AMP**) or through to a TV (**THRU**). When **THRU** is selected, no sound is output from this receiver.	**AMP** *THRU*
A.DLY (Auto Delay)[g] This feature automatically corrects the audio-to-video delay between components connected with an HDMI cable. The audio delay time is set depending on the operational status of the display connected with an HDMI cable. The video delay time is automatically adjusted according to the audio delay time.	**OFF** *ON*
C.WIDTH (Center Width)[h] (Applicable only when using a center speaker) Spreads the center channel between the front right and left speakers, making it sound wider (higher settings) or narrower (lower settings).	0 to 7 Default: **3**
DIMEN (Dimension)[h] Adjusts the surround sound balance from front to back, making the sound more distant (minus settings), or more forward (positive settings).	–3 to +3 Default: **0**
PNRM. (Panorama)[h] Extends the front stereo image to include surround speakers for a 'wraparound' effect.	**OFF** *ON*

Setting/What it does	Option(s)
C.IMG (Center Image)[i] (Applicable only when using a center speaker) Adjust the center image to create a wider stereo effect with vocals. Adjust the effect from **0** (all center channel sent to front right and left speakers) to **10** (center channel sent to the center speaker only).	0 to 10 Default: **3** (NEO:6 MUSIC), **10** (NEO:6 CINEMA)

a. You can change the MIDNIGHT/LOUDNESS options at any time by using **MIDNIGHT** button.
b. You can change the Sound Retriever feature at any time by using **S.RETRIEVER** button.
c. The default setting when the **USB** input is selected is **ON**.
d. This setting works only with dual mono encoded Dolby Digital and DTS soundtracks.
e. The initial set **AUTO** is only available for Dolby TrueHD signals. Select **MAX** or **MID** for signals other than Dolby TrueHD.
f. You shouldn't have any problems using this with most SACD discs, but if the sound distorts, it is best to switch the gain setting back to **0** dB.
g. This feature is only available when the connected display supports the automatic audio/video synchronizing capability ('lip-sync') for HDMI. If you find the automatically set delay time unsuitable, set **A.DLY** to **OFF** and adjust the delay time manually. For more details about the lip-sync feature of your display, contact the manufacturer directly.
h. Only available with 2-channel sources in **DOLBY PLII MUSIC** mode.
i. Only when listening to 2-channel sources in **NEO:6 CINEMA** and **NEO:6 MUSIC** mode.

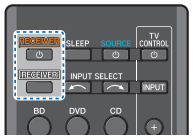
Home Menu

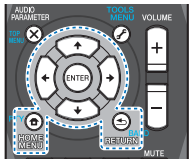
Using the Home Menu

The following section shows you how to make detailed settings to specify how you're using the receiver, and also explains how to fine-tune individual speaker system settings to your liking.

Important

- The OSD will not appear if you have connected using the composite output to your TV. Use HDMI connections for Home Menu.
- If headphones are connected to the receiver, disconnect them.
- You can't use the Home Menu when the **USB** input is selected.



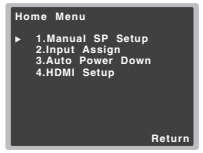


1 **Switch on the receiver and your TV.**
Press ⏻**RECEIVER** to switch on.

2 **Switch the TV input to the input that connects this receiver to the TV through the corresponding HDMI cable.**

3 **Press RECEIVER, then press HOME MENU.**
The Home Menu appears on your TV. Use ⬆/⬇/⬅/➡ and **ENTER** on the remote control to navigate through the screens and select menu items. Press **RETURN** to exit the current menu.
- Press **HOME MENU** at any time to exit the Home Menu.

4 **Select the setting you want to adjust.**



- **Manual SP Setup**
  - **Speaker Setting** – Specify the size and number of speakers you've connected (see below).
  - **X.Over** – Specify which frequencies will be sent to the subwoofer (page 30).
  - **Channel Level** – Adjust the overall balance of your speaker system (page 30).
  - **Speaker Distance** – Specify the distance of your speakers from the listening position (page 31).
- **Input Assign** – Specify what you've connected to the **ANALOG IN1** audio input (see *The Input Assign menu* on page 31).
- **Auto Power Down** – Sets to automatically turn off the power when the receiver has not operated for several hours (see *The Auto Power Down menu* on page 31).
- **HDMI Setup** – Set the audio return channel function and set the HDMI input signal to Standby Through output or not during standby (see *The HDMI Setup menu* on page 32).

Manual speaker setup

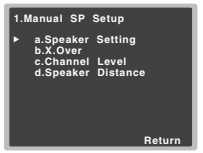
This receiver allows you to make detailed settings to optimize the surround sound performance. You only need to make these settings once (unless you change the placement of your current speaker system or add new speakers).

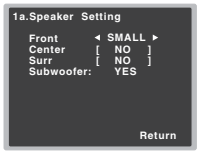
Speaker Setting

Use this setting to specify your speaker configuration (size, number of speakers).

1 **Select 'Manual SP Setup' from the Home Menu.**

2 **Select 'Speaker Setting' from the Manual SP Setup menu.**





3 **Choose the set of speakers that you want to set then select a speaker size.**
Use ⬅/➡ to select the size (and number) of each of the following speakers:
- **Front** – Select **LARGE** if your front speakers reproduce bass frequencies effectively, or if you didn't connect a subwoofer. Select **SMALL** to send the bass frequencies to the subwoofer.
- **Center** – Select **LARGE** if your center speaker reproduces bass frequencies effectively, or select **SMALL** to send bass frequencies to the other speakers or subwoofer. If you didn't connect a center speaker, choose **NO** (the center channel is sent to the other speakers).
- **Surr** – Select **LARGE** if your surround speakers reproduce bass frequencies effectively. Select **SMALL** to send bass frequencies to the other speakers or subwoofer. If you didn't connect surround speakers choose **NO** (the sound of the surround channels is sent to the other speakers).

- **Subwoofer** – LFE signals and bass frequencies of channels set to **SMALL** are output from the subwoofer when **YES** is selected (see notes below). Choose the **PLUS** setting if you want the subwoofer to output bass sound continuously or you want deeper bass (the bass frequencies that would normally come out the front and center speakers are also routed to the subwoofer). If you did not connect a subwoofer choose **NO** (the bass frequencies are output from other speakers).

4 When you're finished, press RETURN.
You return to the Manual SP Setup menu.

Note

- If you select **SMALL** for the front speakers, the subwoofer will automatically be fixed to **YES**. Also, the center, surround can't be set to **LARGE** if the front speakers are set to **SMALL**. In this case, all bass frequencies are sent to the subwoofer.
- If you have a subwoofer and like lots of bass, it may seem logical to select **LARGE** for your front speakers and **PLUS** for the subwoofer. This may not, however, yield the best bass results. Depending on the speaker placement of your room you may actually experience a decrease in the amount of bass due to low frequency cancellations. In this case, try changing the position or direction of speakers. If you can't get good results, listen to the bass response with it set to **PLUS** and **YES** or the front speakers set to **LARGE** and **SMALL** alternatively and let your ears judge which sounds best. If you're having problems, the easiest option is to route all the bass sounds to the subwoofer by selecting **SMALL** for the front speakers.

X.Over

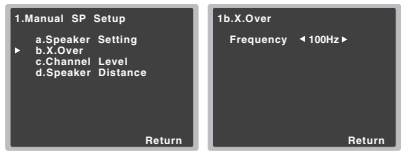
- Default setting: **100Hz**

This setting decides the cutoff between bass sounds playing back from the speakers selected as **LARGE**, or the subwoofer, and bass sounds playing back from those selected as **SMALL**. It also decides where the cutoff will be for bass sounds in the LFE channel.

- For more on selecting the speaker sizes, see *Speaker Setting* on page 29.

1 Select 'Manual SP Setup' from the Home Menu.

2 Select 'X.Over' from the Manual SP Setup menu.



3 Choose the frequency cutoff point.
Frequencies below the cutoff point will be sent to the subwoofer (or **LARGE** speakers).

4 When you're finished, press RETURN.
You return to the Manual SP Setup menu.

Channel Level

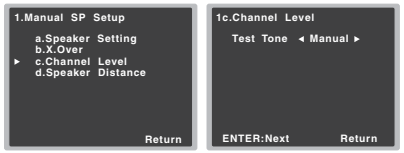
Using the channel level settings, you can adjust the overall balance of your speaker system, an important factor when setting up a home theater system.

CAUTION

- The test tones used in the Channel Level settings are output at high volume.

1 Select 'Manual SP Setup' from the Home Menu.

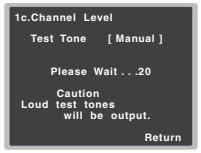
2 Select 'Channel Level' from the Manual SP Setup menu.



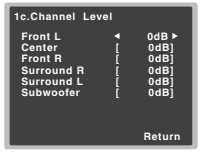
3 Select a setup option.

- **Manual** – Move the test tone manually from speaker to speaker and adjust individual channel levels.
- **Auto** – Adjust channel levels as the test tone moves from speaker to speaker automatically.

4 Confirm your selected setup option.
The test tones will start after you press **ENTER**. After the volume increases to the reference level, test tones will be output.



5 Adjust the level of each channel using ⬅/➡.
If you selected **Manual**, use ⬆/⬇ to switch speakers. The **Auto** setup will output test tones in the order shown on-screen:



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Adjust the level of each speaker as the test tone is emitted.

Note

- If you are using a Sound Pressure Level (SPL) meter, take the readings from your main listening position and adjust the level of each speaker to 75 dB SPL (C-weighting/slow reading).
- The subwoofer test tone is output at low volumes. You may need to adjust the level after testing with an actual soundtrack.

6 When you're finished, press RETURN.
You return to the Manual SP Setup menu.

Tip

- You can change the channel levels at any time by press RECEIVER, then press **CH SELECT** and **LEV +/–** on the remote control. You can also press **CH SELECT** and use ⬆/⬇ to select the channel, and then use ⬅/➡ to adjust the channel levels.

Speaker Distance

For good sound depth and separation from your system, you need to specify the distance of your speakers from the listening position. The receiver can then add the proper delay needed for effective surround sound.

- For the assignment of the digital signal inputs, see *Selecting the audio input signal* on page 19.

1 Select 'Manual SP Setup' from the Home Menu.

2 Select 'Speaker Distance' from the Manual SP Setup menu.

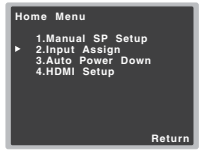
3 Adjust the distance of each speaker using ⬅/➡.
You can adjust the distance of each speaker in 0.1 feet increments.

4 When you're finished, press RETURN.
You return to the Manual SP Setup menu.

The Input Assign menu

ANALOG IN1 audio input terminal is assigned to **CD** under factory settings, but this can be changed to **TV** input.

1 Select 'Input Assign' from the Home Menu.



2 Select 'Analog Input' from the Input Assign menu.

3 Select the desired input option for the ANALOG IN1 audio input terminal.

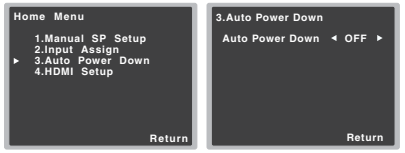
4 When you're finished, press RETURN.
You return to the Input Assign menu.

The Auto Power Down menu

Set to automatically turn off the receiver after a specified time has passed (when the power has been on with no operation for several hours).

- Default setting: **OFF**

1 Select 'Auto Power Down' from the Home Menu.



2 Specify the amount of time to allow before the power is turned off (when there has been no operation).

- You can select 2, 4 or 6 hours, or **OFF** (if no automatic shutoff is desired).

3 When you're finished, press RETURN.
You return to the Home Menu.

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The HDMI Setup menu

If your TV supports an audio return channel (ARC) function, connect your TV and this unit with an HDMI cable and the TV audio will be inputted into this unit via the HDMI terminal without the need for an audio cable to be connected.

It is possible to transfer signals from an HDMI connected player to the TV even when this receiver's power is on standby.

Important

- Use a High Speed HDMI®/™ Cable when using the ARC function. The ARC function may not operate properly with other HDMI cables.

1 Select 'HDMI Setup' from the Home Menu.

2 Choose the 'ARC' setting you want.

When a TV supporting the HDMI Audio Return Channel function is connected to the receiver, the sound of the TV can be input via the HDMI terminal.

- **ON** – The TV's sound is input via the HDMI terminal.
- **OFF** – The TV's sound is input from the audio input terminals other than HDMI inputs.

3 Choose the 'Standby Through' setting you want.

When the receiver is in standby, the HDMI input signal selected here will be output to the TV by HDMI.

- **LAST** – The HDMI input signal selected previously will be output.
- **BD**, **DVD**, **SAT/CBL**, **GAME** – The HDMI input signal selected here will be output.
- **OFF** – Signal will not be output during standby.
  - If the **Standby Through** setting is not set to **OFF**, the power consumption during standby will increase.

4 Choose the '4k60p Setting' setting you want.

If the TV to be connected using HDMI supports 4K/60p, you can switch the 4k60p setting in accordance with TV performance.

1. Select an input terminal that you wish to change settings using ⬅/➡.
2. Use ⬆/⬇ to select '4k60p'.
3. Use ⬅/➡ to select the signal to set.

- **4:4:4** – Select this setting when connecting to a 4K/60p 4:4:4 24 bit compatible TV using HDMI. More high quality video images can be enjoyed.
  - When the HDMI cable does not support 4K/60p 4:4:4 24 bit (18 Gbps transmission), video image may not be output properly.
    In that case, select 4:2:0 to watch a 4K/60p 4:2:0 24 bit video image.
- **4:2:0** – Select this setting when connecting to a 4K/60p 4:2:0 24 bit compatible TV using HDMI.

If certain source devices that do not support 4K/60p 4:4:4 24 bit are used and the HDMI terminal is set to 4:4:4, video output from the source device may turn red, no audio may be output by the source device, or a 3D signal may not be output by some of the devices. In these cases, set the HDMI terminal to 4:2:0.

5 When you're finished, press RETURN.

You return to the Home Menu.

Before starting ARC operation

When starting ARC operation, put the TV and this unit in STANDBY mode after connecting this unit with the TV. Next, turn ON the power of this unit and then the TV, in this order. In order to start ARC operation, after connecting this unit to a TV with an HDMI cable, you will need to switch the input on the TV to the input mode required to connect to this unit.

Then, you can select a TV program.

Important

- The ARC function may not operate even if the above conditions are met. If this is the case, listen to the TV audio after connecting this unit and the TV with an audio cable.
- The CEC (Consumer Electronic Control) function may activate when the ARC function is turned ON, causing power to turn ON and OFF and the input to switch from one to another. Since this unit does not guarantee synchronized operation based on the CEC function, we recommend that you turn OFF the HDMI CONTROL setting on the connected player. This unit may not operate properly if the HDMI CONTROL on the player is ON. Refer to the relevant device's instruction manual for details. If this does not work, turn OFF the ARC function.
  If this is the case, listen to the TV audio after connecting this unit and the TV with an audio cable.
  In addition, this unit does not guarantee synchronized operation that allows the TV remote control to operate the volume (including mute). Use this unit to operate the volume (including mute).
- Turn OFF the power and remove the power cord from the wall socket when connecting other devices or making connection changes to this unit. After all connections are completed, insert the power cord into the wall socket.
- If the power cord is connected when the ARC function is ON, the HDMI will take 2 to 10 seconds to initialize. This unit cannot be operated during the initialization. During initialization, the HDMI indicator on the display will blink. Turn ON the unit after blinking stops.

Additional information

Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Take a look at the other components and electrical appliances being used, because sometimes the problem may lie there. If the trouble isn't sorted out even after going through the checks below, ask your nearest Pioneer authorized independent service company to carry out repair work.

- If the unit does not operate normally due to external effects such as static electricity disconnect the power plug from the outlet and insert again to return to normal operating conditions.

General

❖ **The power does not turn on.**
→ Disconnect the power plug from the outlet, and insert again.

❖ **The receiver suddenly switches off.**
→ When the Auto Power Down function is working, the power will automatically turn off if the receiver has not operated for several hours. Check the setting for the Auto Power Down function (see *The Auto Power Down menu* on page 31).
→ Make sure there are no loose strands of speaker wire touching the rear panel. This could cause the receiver to shut off automatically.
→ After about a minute (you won't be able to switch the unit on during this time), switch the receiver back on. If the message persists, call a Pioneer authorized independent service company.
→ If there is very little low frequency information in the source material, change your speaker settings to Front: SMALL / Subwoofer: YES, or Front: LARGE / Subwoofer: PLUS (page 29).

❖ **The HDMI indicator blinks and the power does not turn on.**
→ The receiver may have a serious problem. Do not try switching the receiver on. Unplug the receiver from the wall and call a Pioneer authorized independent service company.

❖ **Power automatically turns ON/OFF and the input switches from one to another. (When the ARC function is ON)**
→ The CEC (Consumer Electronic Control) function may activate when the ARC function is turned ON, causing power to turn ON and OFF and the input to switch from one to another. Since this unit does not guarantee synchronized operation based on the CEC function, turn OFF the HDMI CONTROL setting on the connected player. Refer to the relevant device's instruction manual for details.
If this does not work, turn OFF the ARC function. If this is the case, listen to the TV audio after connecting this unit and the TV with an audio cable.

❖ **OVERHEAT shows in the display and the power turns off.**
→ The temperature within the unit has exceeded the allowable value. Try moving the unit for better ventilation (page 2).
→ Lower the volume level.

❖ **TEMP shows in the display and the volume level drops.**
→ The temperature within the unit has exceeded the allowable value. Try moving the unit for better ventilation (page 2).
→ Lower the volume level.

❖ **No sound is output when an input function is selected.**
→ Use **VOLUME +/–** to turn up the volume.
→ Press **MUTE** on the remote control to turn muting off.
→ Set the **SIGNAL SEL** to **H** (HDMI), **C1**/**O1** (digital) or **A** (analog) according to the type of connections made (page 19).
→ Make sure the component is connected correctly (see *Connecting your equipment* on page 11).
→ Check the audio output settings of the source component.
→ Refer to the instruction manual supplied with the source component.

❖ **No image is output when an input function is selected.**
→ Make sure the component is connected correctly (see *Connecting your equipment* on page 11).
→ Use the same type of video cables for the source component and TV to connect to this receiver (see *About video outputs connection* on page 14).
→ The video input selected on the TV monitor is incorrect. Refer to the instruction manual supplied with the TV.

❖ **No sound from subwoofer.**
→ Make sure the subwoofer is switched on.
→ If the subwoofer has a volume knob, make sure it's turned up.
→ The Dolby Digital or DTS source you are listening to may not have an LFE channel.
→ Switch the subwoofer setting in *Speaker Setting* on page 29 to **YES** or **PLUS**.
→ Switch the *LFE ATT (LFE Attenuate)* on page 27 to **LFEATT 0** or **LFEATT 5**.

❖ **No sound from surround or center speakers.**
→ Connect the speakers properly (page 12).
→ Refer to *Speaker Setting* on page 29 to check the speaker settings.
→ Refer to *Channel Level* on page 30 to check the speaker levels.

❖ **No sound from a specific speaker.**
→ Make sure the speaker cable is connected correctly. (Ensure that the connection terminal is correct, that the speaker wire is firmly inserted, and that no speaker wire is touching the rear panel.)

❖ **The Phase Control feature doesn't seem to have an audible effect.**
→ If applicable, check that the lowpass filter switch on your subwoofer is off, or the lowpass cutoff is set to the highest frequency setting. If there is a PHASE setting on your subwoofer, set it to 0° (or depending on the subwoofer, the setting where you think it has the best overall effect on the sound).
→ Make sure the speaker distance setting is correct for all speakers (see *Speaker Distance* on page 31).

❖ **Considerable noise in radio broadcasts.**
→ Connect the antenna (page 17) and adjust the position for best reception.
→ Route any loose cables away from the antenna terminals and wires.
→ Fully extend the FM wire antenna, position for best reception, and secure to a wall (or connect an outdoor FM antenna).
→ Connect an additional internal or external AM antenna (page 17).
→ Turn off equipment causing interference or move it away from the receiver (or move antennas farther away from equipment causing noise).

❖ **Broadcast stations cannot be selected automatically.**
→ Connect an outdoor antenna (page 17).

❖ **Noise during playback of a cassette deck.**
→ Move the cassette deck away from your receiver, until the noise disappears.

❖ **No sound is output or a noise is output when software with DTS is played back.**
→ Make sure the player's settings are correct and/or the DTS signal out is on. Refer to the instruction manual supplied with the DVD player.

❖ **Can't operate the remote control.**
→ Replace the batteries (page 10).
→ Operate within 7 m (23 ft.), 30° of the remote sensor (page 10).
→ Remove the obstacle or operate from another position.
→ Avoid exposing the remote sensor on the front panel to direct light.
→ Press the remote control's RECEIVER button and switch to receiver control mode.

→ In order to operate TUNER and USB functions, first press the TUNER or USB button before operating.

❖ **The display is dark.**

→ Press **DIMMER** on the remote control repeatedly to return to the default.

→ During ECO mode, the brightness switches between 2 levels. If the dimmest level is selected, DIMMER will be shown on the display. (Mode other than ECO: 4 levels, ECO mode: 2 levels)

❖ **Display flashes and cannot be operated.**

→ Depending on the input signal or listening mode, there may be functions that cannot be selected.

❖ **The *Bluetooth* wireless technology device cannot be connected or operated. Sound from the *Bluetooth* wireless technology device is not emitted or the sound is interrupted.**

→ Check that no object that emits electromagnetic waves in the 2.4 GHz band (microwave oven, wireless LAN device or *Bluetooth* wireless technology apparatus) is near the receiver. If such an object is near the receiver, set the receiver far from it. Or, stop using the object emitting the electromagnetic waves.

→ Check that the *Bluetooth* wireless technology device is not too far from the receiver and that obstructions are not set between the *Bluetooth* wireless technology device and the receiver. Set the *Bluetooth* wireless technology device and the receiver so that the distance between them is less than about 10 m (33 ft.)* and no obstructions exist between them.

* The line-of-sight transmission distance is an estimate. Actual transmission distances supported may differ depending on surrounding conditions.

→ The *Bluetooth* wireless technology device may not be set to the communication mode supporting the *Bluetooth* wireless technology. Check the setting of the *Bluetooth* wireless technology device.

→ Check that pairing is correct. The pairing setting was deleted from this receiver or the *Bluetooth* wireless technology device. Reset the pairing.

→ Check that the profile is correct. Use a *Bluetooth* wireless technology device that supports A2DP profile.

HDMI

❖ **No picture or sound.**

→ If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or monitor manual or contact the manufacturer for support.

❖ **No picture.**

→ Video signals that are input from the analog video terminal will not output from the HDMI terminal. Signals that are input from the HDMI terminal will not output from the analog video terminal. Be consistent with the type of cable between input and output.

→ Depending in the output settings of the source component, it may be outputting a video format that can't be displayed. Change the output settings of the source, or connect using the composite video jacks.

→ This receiver is HDCP-compatible. Check that the components you are connecting are also HDCP-compatible. If they are not, please connect them using the composite video jacks.

→ Depending on the connected source component, it's possible that it will not work with this receiver (even if it is HDCP-compatible). In this case, connect using the composite video jacks between source and receiver.

→ If video images do not appear on your TV, try adjusting the resolution, Deep Color or other setting for your component.

→ To output signals in Deep Color, use an HDMI cable (High Speed HDMI®/™ Cable to connect this receiver to a component or TV with the Deep Color feature.

❖ **The OSD screen (Home Menu, etc.) isn't displayed.**

→ The OSD will not appear if you have connected using the composite output to your TV. Use HDMI connections when setting up the system.

❖ **No sound, or sound suddenly ceases.**

→ Check that the **HDMI** setting is set to **AMP** (page 27).

→ If the component is a DVI device, use a separate connection for the audio.

→ HDMI format digital audio transmissions require a longer time to be recognized. Due to this, interruption in the audio may occur when switching between audio formats or beginning playback.

→ Turning on/off the device connected to this unit's HDMI OUT terminal during playback, or disconnecting/connecting the HDMI cable during playback, may cause noise or interrupted audio.

Important information regarding the HDMI connection

There are cases where you may not be able to route HDMI signals through this receiver (this depends on the HDMI equipped component you are connecting-check with the manufacturer for HDMI compatibility information).

If you aren't receiving HDMI signals properly through this receiver (from your component), please try the following configuration when connecting up.

Configuration

Connect your HDMI-equipped component directly to the display using an HDMI cable. Then use the most convenient connection (digital is recommended) for sending audio to the receiver. See the operating instructions for more on audio connections. Set the display volume to minimum when using this configuration.

Note

- Depending on the component, audio output may be limited to the number of channels available from the connected display unit (for example audio output is reduced to 2 channels for a monitor with stereo audio limitations).
- If you want to switch the input source, you'll have to switch functions on both the receiver and your display unit.
- Since the sound is muted on the display when using the HDMI connection, you must adjust the volume on the display every time you switch input sources.

USB messages

❖ **'USB Error 1 (I/U ERR1)'**

→ There is a problem with the signal path from the USB to the receiver. Switch off the receiver and reconnect the USB to the receiver.

❖ **'USB Error 3 (I/U ERR3)'**

→ When there is no response from the USB. Switch off the receiver and reconnect the USB to the receiver.

❖ **'USB Error 4 (I/U ERR4)'**

→ The power requirements of the USB device are too high for this receiver. Switch off the receiver and reconnect the USB to the receiver.

Resetting the main unit

Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this.

1. **Switch the receiver into standby.**
2. **While holding down BAND, press and hold ⏻STANDBY/ON for about two seconds.**
3. **When you see RESET? appear in the display, press AUTO SURROUND/STREAM DIRECT.**
   OK? shows in the display.
4. **Press ALC/STANDARD SURR to confirm.**
   OK appears in the display to indicate that the receiver has been reset to the factory default settings.

Important

- If the ARC function is ON, you may not be able to initialize the unit. If this happens, turn OFF the ARC function or turn OFF all the connected device before turning OFF (STANDBY) the power for this unit, and initialize after the HDMI indicator goes out.
- If the **Standby Through** is not set to **OFF**, you may not be able to initialize the unit.

Cleaning the unit

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surface is dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleansers.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surface.

Specifications

Amplifier section

Continuous average power output of 80 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.08 % total harmonic distortion.**

Front (stereo) . . . . . .80 W + 80 W
Power output (1 kHz, 6 Ω, 1 %). . . . . .140 W per channel
Guaranteed speaker impedance . . . . . 6 Ω to 16 Ω
** Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers*
*** Measured by Audio Spectrum Analyzer*

Audio Section

Input (Sensitivity/Impedance)
LINE . . . . . 200 mV/47 kΩ
Signal-to-Noise Ratio (IHF, short circuited, A network)
LINE . . . . . 98 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]
LINE . . . . . 79 dB

Video Section

Signal level
Composite . . . . . 1 Vp-p (75 Ω)

Tuner Section

Frequency Range (FM) . . . . . .87.5 MHz to 108 MHz
Antenna Input (FM) . . . . . 75 Ω unbalanced
Frequency Range (AM) . . . . . .530 kHz to 1700 kHz
Antenna (AM). . . . . Loop antenna

Bluetooth section

Version . . . . . *Bluetooth* Specification Ver. 3.0
Output . . . . . *Bluetooth* Specification Class 2
Estimated line-of-sight transmission distance*
. . . . . About 10 m (33 ft.)
Frequency range . . . . . 2.4 GHz
Supported *Bluetooth* profiles A2DP
Supported Codec. . . . . .SBC (Subband Codec), AAC, APT-X
* The line-of-sight transmission distance is an estimate. Actual transmission distances supported may differ depending on surrounding conditions.

Digital In/Out Section

HDMI terminal . . . . . Type A (19-pin)
HDMI output type . . . . . 5 V, 100 mA
USB terminal. . . . . .USB2.0 Full Speed (Type A) 5 V, 0.5 A

Miscellaneous

Power Requirements . . . . . .AC 120 V, 60 Hz
Power Consumption. . . . . .415 W
In standby . . . . . 0.1 W
Dimensions . . . . . .435 mm (W) x 168 mm (H) x 331.5 mm (D)
$17^{1}/8$ in. (W) x $6^{5}/8$ in. (H) x $13^{1}/16$ in. (D)
Weight (without package) . . . . . .8.3 kg (18 lb 5 oz)

Furnished Parts

Remote control 1
Dry cell batteries (AAA size IEC R03) 2
AM loop antenna 1
FM wire antenna. 1
Warranty card 1
Quick start guide 1
Safety Brochure 1
SPEAKER CAUTION Sheet (English only) 1
These operating instructions (CD-ROM)

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

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The Safety of Your Ears is in Your Hands

Get the most out of your equipment by playing it at a safe level – a level that lets the sound come through clearly without annoying blaring or distortion and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time, your hearing "comfort level" adapts to higher volumes of sound, so what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

ESTABLISH A SAFE LEVEL:

- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.
- Once you have established a comfortable sound level, set the dial and leave it there.

BE SURE TO OBSERVE THE FOLLOWING GUIDELINES:

- Do not turn up the volume so high that you can't hear what's around you.
- Use caution or temporarily discontinue use in potentially hazardous situations.
- Do not use headphones while operating a motorized vehicle; the use of headphones may create a traffic hazard and is illegal in many areas.

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To register your product, find the nearest authorized service location, to purchase replacement parts, operating instructions, or accessories, please go to one of following URLs :

Pour enregistrer votre produit, trouver le service après-vente agréé le plus proche et pour acheter des pièces de rechange, des modes d'emploi ou des accessoires, reportez-vous aux URL suivantes :

In the USA/Aux Etats-Unis http://www.pioneerelectronics.com

In Canada/Aux Canada http://www.pioneerelectronics.ca

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