

Home Theatre System

Operating Instructions

HT-DDW2500

WARNING

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

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc.

Do not place the naked flame sources such as lighted candles on the apparatus.

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

Do not expose batteries or apparatus with battery-installed to excessive heat such as sunshine, fire or the like.

About This Manual

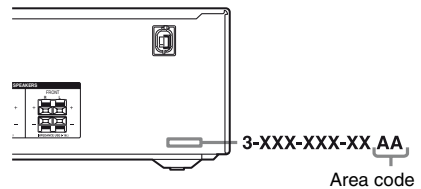
- The instructions in this manual are for model HT-DDW2500. In this manual, models of area code SA is used for illustration purposes unless stated otherwise. Any difference in operation is clearly indicated in the text, for example, “Models of area code SA only”.

The HT-DDW2500 consists of:

- Receiver STR-KM2500
- Speaker system
 - Front speaker SS-MSP2500
 - Subwoofer SS-WP3000
- The instructions in this manual describe the controls on the supplied remote. You can also use the controls on the receiver if they have the same or similar names as those on the remote.

About area codes

The area code of the receiver you purchased is shown on the lower right portion of the rear panel (see the illustration below).



Any differences in operation, according to the area code, are clearly indicated in the text, for example, “Models of area code AA only”.

This receiver incorporates Dolby* Digital and Pro Logic Surround and the DTS** Digital Surround System.

- * Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- ** Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Surround are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.

Table of Contents

Description and location of parts	4
---	---

Getting Started

1: Installing the speakers.....	11
2: Connecting the speakers	12
3: Connecting the audio/video components	13
4: Connecting the antennas	18
5: Preparing the receiver and the remote.....	19
6: Adjusting the speaker levels and balance (TEST TONE).....	20
Adjusting the tone	21

Playback

Selecting a component	22
Listening/Watching a component.....	24

Amplifier Operations

Navigating through menus	26
Customizing the receiver settings	28

Enjoying Surround Sound

Selecting the sound field	29
Resetting sound fields to the initial settings	31

Tuner Operations

Listening to FM/AM radio	31
Presetting radio stations	33

Other Operations

Switching between digital and analog audio (INPUT MODE).....	34
Changing the display	35
Using the Sleep Timer	35

Using the Remote

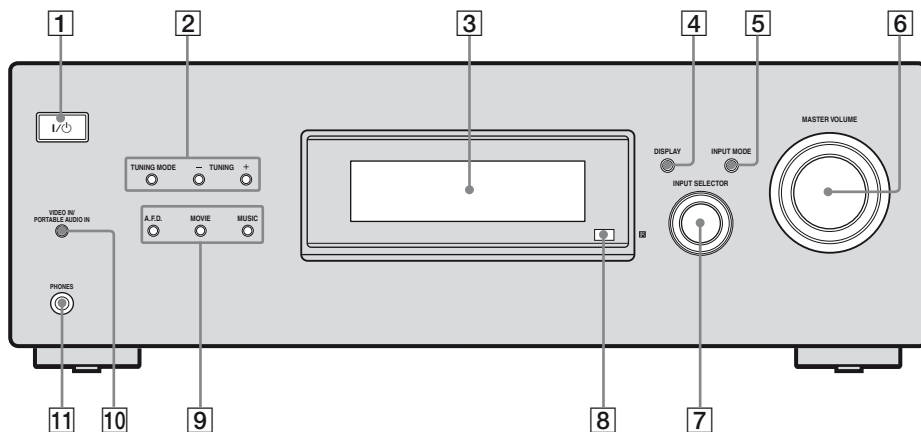
Changing button assignments.....	36
----------------------------------	----

Additional Information

Glossary	37
Precautions	38
Troubleshooting.....	39
Specifications	42
Index.....	Back cover

Description and location of parts

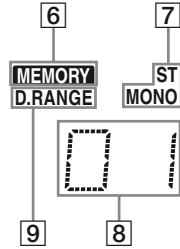
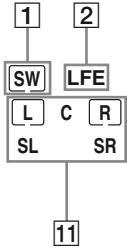
Front panel



Name	Function
1 I/O	Press to turn the receiver on or off (page 19, 24, 25, 31, 36).
2 TUNING MODE	Press to operate the tuner (FM/AM) (page 31).
TUNING +/-	
3 Display	The current status of the selected component or a list of selectable items appears here (page 5).
4 DISPLAY	Press to select information displayed on the display (page 35).
5 INPUT MODE	Press to select the input mode when the same components are connected to both digital and analog jacks (page 34).
6 MASTER VOLUME	Turn to adjust the volume level of all speakers at the same time (page 21, 22, 24, 25).

Name	Function
7 INPUT SELECTOR	Turn to select the input source to play back (page 22, 24, 25, 34).
8 Remote sensor	Receives signals from remote commander.
9 A.F.D.	Press to select a sound field (page 29)
MOVIE	
MUSIC	
10 VIDEO IN/ PORTABLE AUDIO IN jack	Connects to a portable audio such as MP3 player, etc. (page 14).
11 PHONES jack	Connects to headphones (page 40).

About the indicators on the display

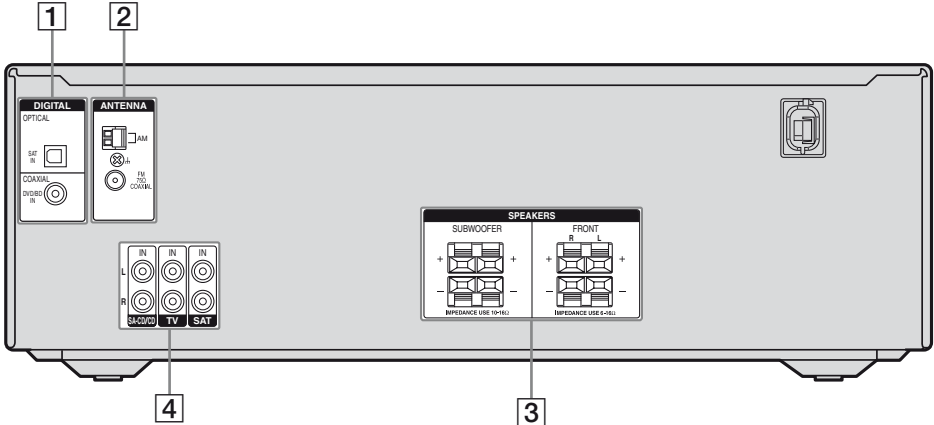


Name	Function
1 SW	Lights up when the audio signal is output from the SUBWOOFER jack.
2 LFE	Lights up when the disc being played back contains an LFE (Low Frequency Effect) channel and the LFE channel signal is actually being reproduced.
3 DD D	Lights up when the receiver is decoding Dolby Digital signals. Note When playing a Dolby Digital format disc, be sure that you have made digital connections and that INPUT MODE is set to "AUTO" (page 34).
4 OPT	Lights up when INPUT MODE is set to "AUTO" and the source signal is a digital signal being input through the OPTICAL jack.
5 DTS	Lights up when the receiver is decoding DTS signals. Note When playing a DTS format disc, be sure that you have made digital connections and that INPUT MODE is set to "AUTO" (page 34).

Name	Function
6 MEMORY	Lights up when a memory function, such as Preset Memory (page 33), etc., is activated.
7 Tuner indicators	Lights up when using the receiver to tune in radio stations (page 31), etc.
8 Preset station indicators	Lights up when using the receiver to tune in preset radio stations. For details on presetting radio stations, see page 33.
9 D.RANGE	Lights up when dynamic range compression is activated.
10 COAX	Lights up when DVD/BD input is selected. However, "NO INPUT" appears on the display if no digital signal is input through the COAXIAL jack.

Name	Function
11 Playback channel indicators	The letters (L, C, R, etc.) indicate the channels being played back. The boxes around L and R show the receiver downmixes the source sound to 2 channels.
L	Front Left
R	Front Right
C	Center (monaural)
SL	Surround Left
SR	Surround Right
	Example: Recording format (Front/Surround): 3/2.1 Sound Field: A.F.D. AUTO
	<div style="text-align: center;"> SW L C R SL SR </div>

Rear panel



1 DIGITAL INPUT section



OPTICAL IN Connects to a DVD player, etc. The COAXIAL jack provides a better sound quality (page 16).



COAXIAL IN jack

4 AUDIO INPUT section



White (L) AUDIO IN Connects to a CD player, etc. (page 14).



Red (R)

2 ANTENNA section



FM ANTENNA Connects to the FM wire antenna supplied with this receiver (page 18).

jack



AM ANTENNA Connects to the AM loop antenna supplied with this receiver (page 18).

terminals

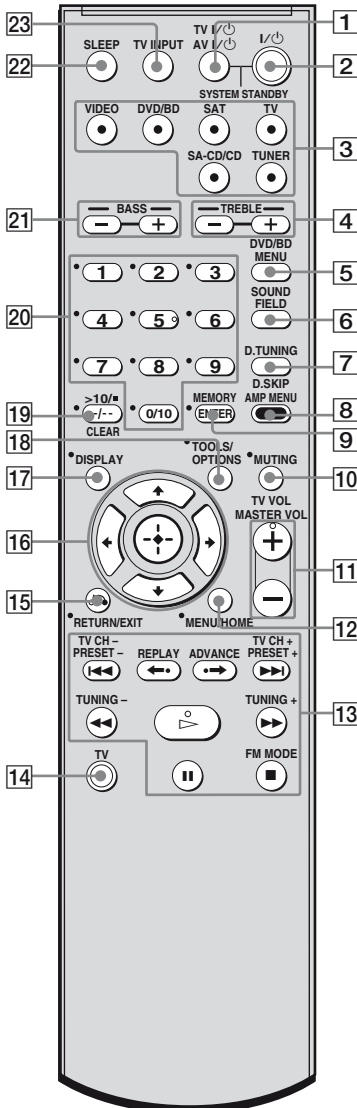
3 SPEAKERS section



Connects to the speakers and subwoofer (page 12).

Remote commander

You can use the supplied RM-AAU059 Remote Commander to operate the receiver and to control the Sony audio/video components that the remote is assigned to operate. For details, see “Changing button assignments” (page 36).



Name	Function
1 TV I/⏻ (on/standby)	Press TV I/⏻ and TV (14) at the same time to turn the TV on or off.
AV I/⏻ (on/standby)	Press to turn on or off the Sony audio/video components that the remote is assigned to operate (page 36). If you press I/⏻ (2) at the same time, it will turn off the receiver and other Sony components (SYSTEM STANDBY). Note The function of the AV I/⏻ switch changes automatically each time you press the input buttons (3).
2 I/⏻ (on/standby)	Press to turn the receiver on or off. To turn off all components, press I/⏻ and AV I/⏻ (1) at the same time (SYSTEM STANDBY).
3 Input buttons	Press one of the buttons to select the component you want to use. When you press any of the input buttons, the receiver turns on. The buttons are factory assigned to control Sony components. You can change the button assignments following the steps in “Changing button assignments” on page 36.
4 TREBLE +/-	Press repeatedly to adjust the treble level of the speakers.
5 DVD/BD MENU	Press to display the menu of the DVD or Blu-ray disc on the TV screen. Then, use ⬆/⬇/⬅/➡ and ⊕ (16) to perform menu operations.
6 SOUND FIELD	Press to select a sound field.
7 D.TUNING	Press to enter direct tuning mode.
D.SKIP	Press to skip a disc when using a multi-disc changer.

Name	Function
8 AMP MENU	Press to display the menu of the receiver. Then, use /↓/←/→ and (16) to perform menu operations.
9 ENTER	Press to enter the value after selecting a channel, disc or track using the numeric buttons of the TV, VCR or satellite tuner.
MEMORY	Press to store a station.
10 MUTING	Press to turn off the sound temporarily. Press the button again to restore the sound. Press MUTING and TV (14) at the same time to activate the TV's muting function.
11 TV VOL +/-	Press TV VOL +/- and TV (14) at the same time to adjust the volume level of the TV.
MASTER VOL +/-	Press to adjust the volume level of all speakers at the same time.
12 MENU/HOME	Press to display the menu used to operate audio components or a TV.
13	Press to skip a track of the CD player, DVD player or Blu-ray disc player.
REPLAY / ADVANCE	Press to replay the previous scene or fast forward the current scene of the VCR, DVD player or Blu-ray disc player.
	Press to – search tracks in the forward/reverse direction of the DVD player. – start fast forward/rewind of the VCR, CD player or Blu-ray disc player.
*	Press to start playback of the VCR, CD player, DVD player, or Blu-ray disc player.

Name	Function
II	Press to pause playback or recording of the VCR, CD player, DVD player or Blu-ray disc player. (Also starts recording with components in recording standby.)
■	Press to stop playback of the VCR, CD player, DVD player or Blu-ray disc player.
TV CH +/-	Press TV CH +/- and TV (14) at the same time to select preset TV channels.
PRESET +/-	Press to select – preset stations. – preset channels of the VCR or satellite tuner.
TUNING +/-	Press to scan a station.
FM MODE	Press to select the FM monaural or stereo reception.
14 TV	Press TV and the buttons with yellow printing at the same time to enable the TV operation.
15 RETURN/EXIT	Press to – return to the previous menu. – exit the menu while the menu or on-screen guide of the VCR, DVD player, satellite tuner or Blu-ray disc player is displayed on the TV screen. Press RETURN/EXIT and TV (14) at the same time to return to the previous menu or exit the TV's menu while the menu is displayed on the TV screen.
16 /↓/←/→	After pressing DVD/BD MENU (5), AMP MENU (8), or MENU/HOME (12), press /↓/←/→ to select the settings. Then, press to enter the selection if you have pressed DVD/BD MENU or MENU/HOME previously. Press also to enter the selection of the receiver, VCR, satellite tuner, CD player, DVD player or Blu-ray disc player.

continued

Name	Function
17 DISPLAY	Press to select information displayed on the TV screen of the VCR, satellite tuner, CD player, DVD player or Blu-ray disc player. Press DISPLAY and TV (14) at the same time to display TV's information on the TV screen.
18 TOOLS/OPTIONS	Press to display and select the options of the DVD player or Blu-ray disc player. Press TOOLS/OPTIONS and TV (14) at the same time to display the options applicable to the Sony TV.
19 -/--	Press to select the channel entry mode, either one or two digit of the VCR. Press -/-- and TV (14) at the same time to select the channel entry mode, either one or two digits of the TV.
>10/-	Press to select – track numbers over 10 of the VCR, satellite tuner or CD player. – channel numbers of the Digital CATV terminal.
CLEAR	Press to clear a mistake when you press the incorrect numeric button.
20 Numeric buttons (number 5*)	Press to – preset/tune to preset stations. – select track numbers of the CD player, DVD player or Blu-ray disc player. Press 0/10 to select track number 10. – select channel numbers of the VCR or satellite tuner. Press the numeric buttons and TV (14) at the same time to select the TV channels.
21 BASS +/-	Press repeatedly to adjust the bass level of the speakers.
22 SLEEP	Press to activate the Sleep Timer function and the duration which the receiver turns off automatically.

Name	Function
23 TV INPUT	Press TV INPUT and TV (14) at the same time to select the input signal (TV input or video input).

* The tactile dot is attached to these buttons (The number 5, MASTER VOL +/-/TV VOL +, ▷).
Use as a mark of operation.

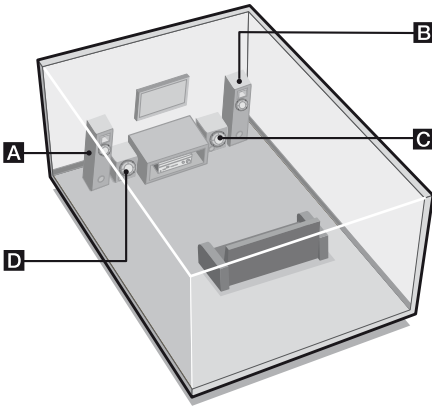
Notes

- Some functions explained in this section may not work depending on the model.
- The above explanation is intended to serve as an example only. Therefore, depending on the component, the above operation may not be possible or may operate differently than described.

1: Installing the speakers

This receiver allows you to use a 2 channel speaker with 2 subwoofers system.

Example of 2 channel speaker with 2 subwoofers system configuration



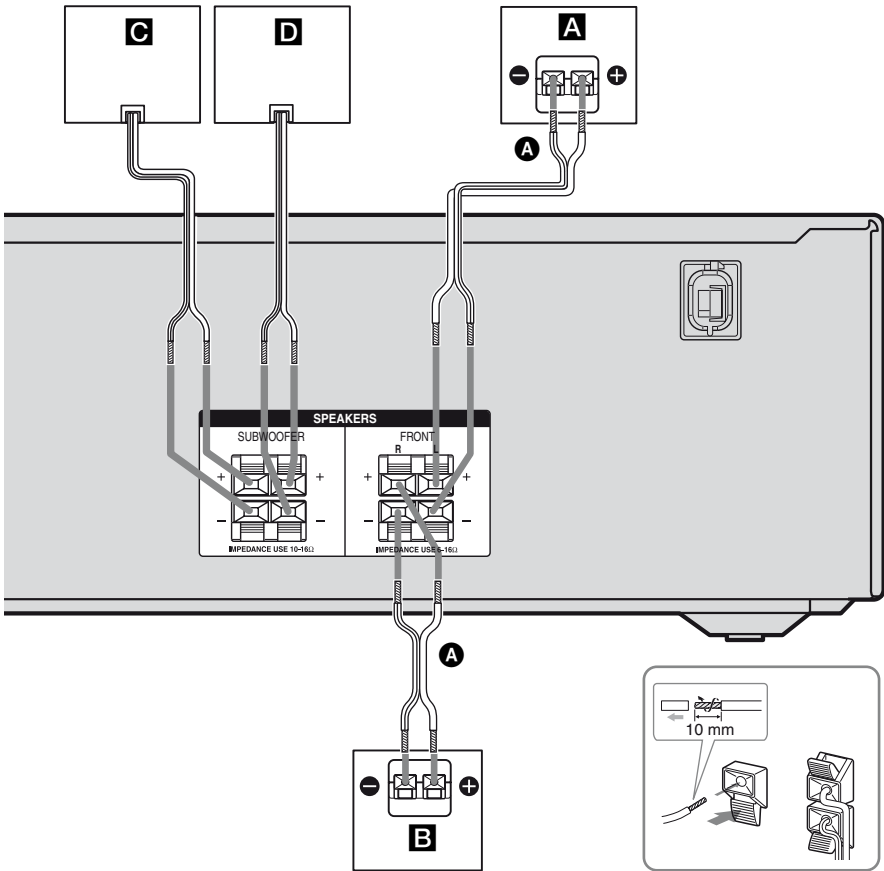
- A** Front speaker (left)
- B** Front speaker (right)
- C** Subwoofer
- D** Subwoofer

Tip

Since the subwoofers do not emit highly directional signals, you can place them wherever you want.

2: Connecting the speakers

Before connecting the cords, be sure to disconnect the AC power cord.



A Speaker cord (supplied)

A Front speaker (left)

B Front speaker (right)

C Subwoofer

D Subwoofer

To connect the speakers correctly

Check the speaker type by referring to the speaker label* at the rear panel of the speakers.

Character on speaker label	Speaker type
L	Front left
R	Front right

* The subwoofer do not have any character on the speaker label. For details on the speaker type, see page 2.

Tip

Use the supplied speakers to optimize the system's performance.

3: Connecting the audio/video components

How to hook up your components

This section describes how to hook up your components to this receiver. Before you begin, refer to "Component to be connected" below for the pages which describe how to connect the audio/video components.

After connect all your components, proceed to "4: Connecting the antennas" (page 18).

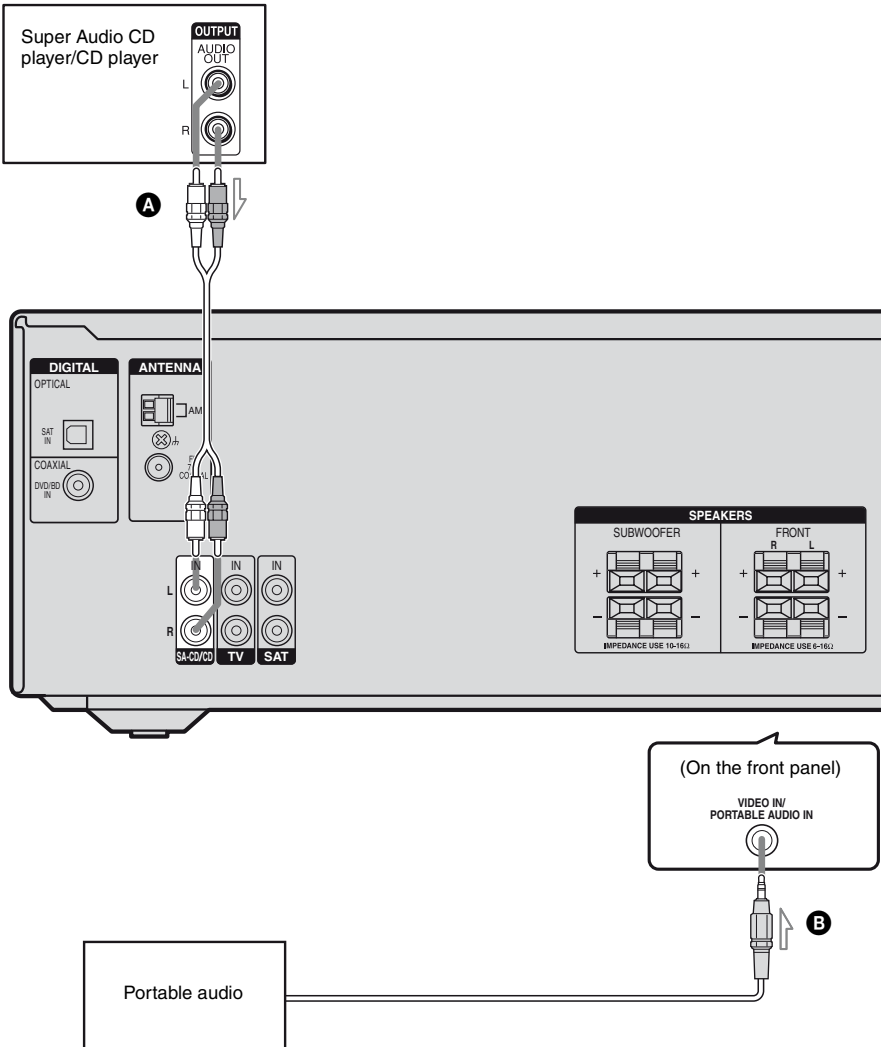
Component to be connected

To connect	See
Audio components <ul style="list-style-type: none"> • Super Audio CD player/CD player • Portable audio such as MP3 player, etc. 	page 14
Video components <ul style="list-style-type: none"> • DVD player/Blu-ray disc player • Satellite tuner/Set-top box • TV 	page 16

Connecting audio components

Before connecting the cords, be sure to disconnect the AC power cord.

The following illustration shows how to connect audio components such as MP3 player, Super Audio CD player or CD player.



A Audio cord (not supplied)

B Phono cord with stereo headphone jack (not supplied)

Notes

- When listening to a component connected to the VIDEO IN/PORTABLE AUDIO IN jack, sound may be distorted or interrupted. This is not a malfunction and will depend on the connected component.
- If the sound from the component connected to the VIDEO IN/PORTABLE AUDIO IN jack is very soft, you may increase the volume level. However, before you select other component, be sure to reduce the volume level to avoid damaging your speaker.

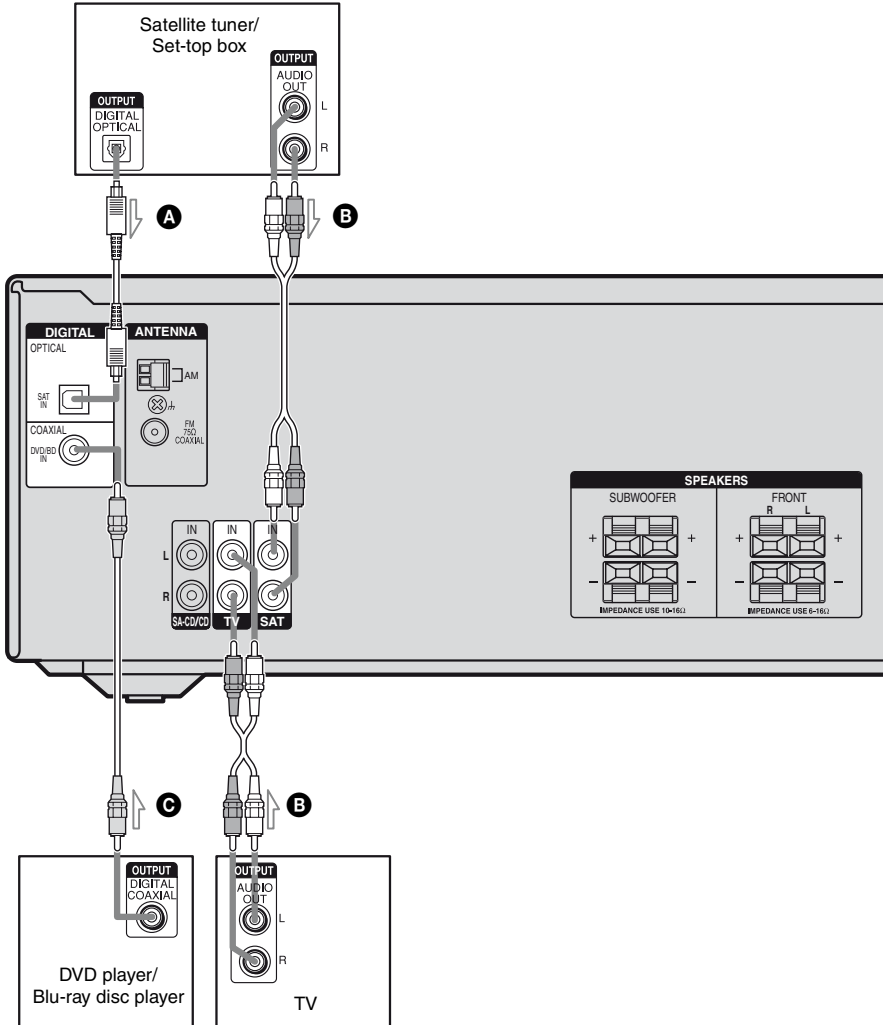
Tip

You are recommended to use “PORTABLE” sound field if the source is MP3 or other compressed source.

Connecting video components

Before connecting the cords, be sure to disconnect the AC power cord.

The following illustration shows how to connect video components such as DVD player, Blu-ray disc player, satellite tuner, etc. It is not necessary to connect all the cords. Connect audio and video cords according to the jacks of your components.



- A** Optical digital cord (not supplied)
- B** Audio cord (not supplied)
- C** Coaxial digital cord (supplied)

If you connect a Blu-ray disc player

- Be sure to change the factory setting of the DVD/BD input button on the remote so that you can use the button to control your Blu-ray disc player. For details, see “Changing button assignments” (page 36).
- You can also rename the DVD/BD input so that it can be displayed on the receiver’s display. For details, see “Naming inputs” (page 23).

Notes

- To input multi channel digital audio from the DVD player or Blu-ray disc player, set the digital audio output setting on the DVD player or Blu-ray disc player. Refer to the operating instructions supplied with the DVD player or Blu-ray disc player.
- To output sound from the front speakers and the subwoofer only when you select DVD/BD input, be sure to:
 - connect your DVD player or Blu-ray disc player to the DIGITAL COAXIAL DVD/BD IN jack on the receiver.
- When connecting optical digital cords, insert the plugs straight in until they click into place.
- Do not bend or tie optical digital cords.
- Be sure to connect the video output of the DVD player/Blu-ray disc player and satellite tuner/set-top box to the TV, so that the image is displayed on the TV. Refer to the operating instructions of each component connected for details.

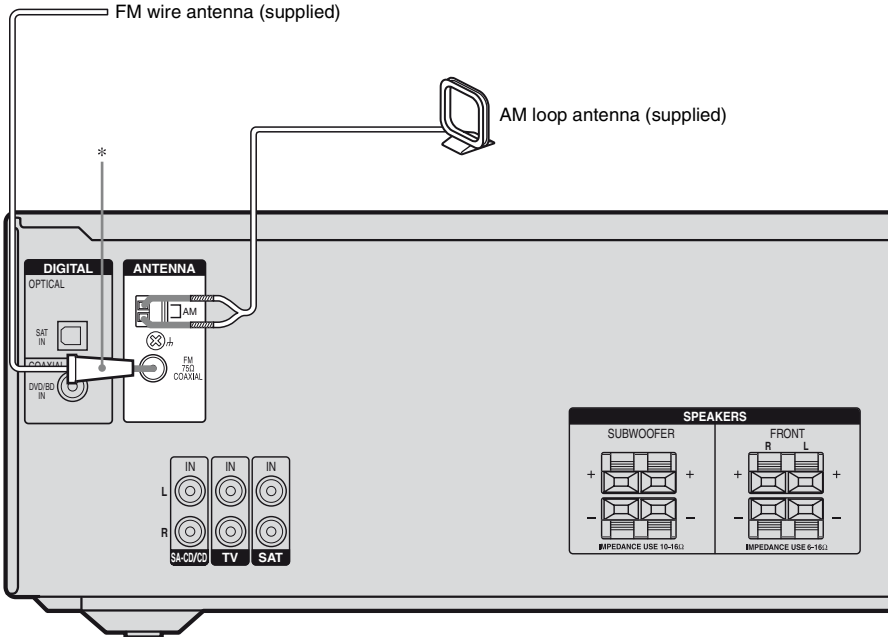
Tips

- All the digital audio jacks are compatible with 32 kHz, 44.1 kHz, 48 kHz, and 96 kHz sampling frequencies.
- To output the sound of the TV from the speakers connected to the receiver, be sure to:
 - connect the audio output jacks of the TV to the TV IN jacks of the receiver.
 - turn off the TV’s volume or activate the TV’s muting function.

4: Connecting the antennas

Connect the supplied AM loop antenna and FM wire antenna.

Before connecting the antennas, be sure to disconnect the AC power cord.



* The shape of the connector varies depending on the area code of this receiver.

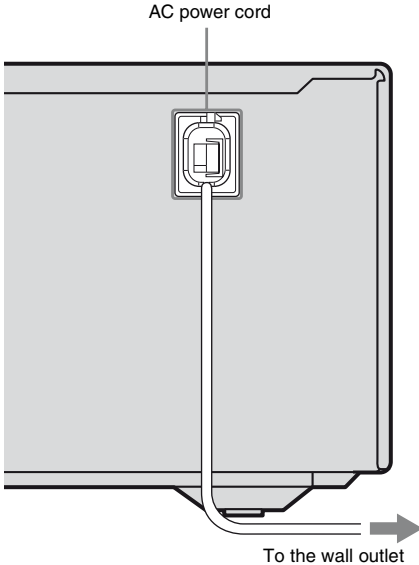
Notes

- To prevent noise pickup, keep the AM loop antenna away from the receiver and other components.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.

5: Preparing the receiver and the remote

Connecting the AC power cord

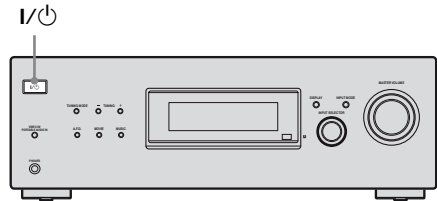
Connect the AC power cord to a wall outlet.



Performing initial setup operations

Before using the receiver for the first time, initialize the receiver by performing the following procedure. This procedure can also be used to return settings you have made to their factory defaults.

Be sure to use the buttons on the receiver for this operation.



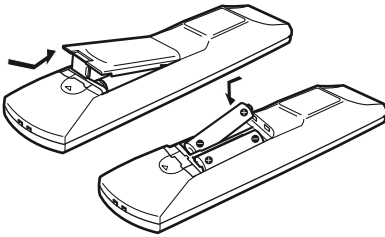
- 1** Press I/⏻ to turn off the receiver.
- 2** Hold down I/⏻ for 5 seconds.

After “CLEARING” appears on the display for a while, “CLEARED” appears.

All the settings you have changed or adjusted are reset to the initial settings.

Inserting batteries into the remote

Insert two R6 (size-AA) batteries in the RM-AAU059 Remote Commander. Observe the correct polarity when installing batteries.



Notes

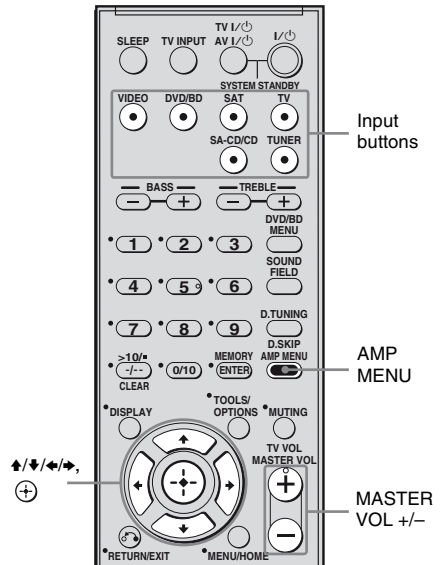
- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with old ones.
- Do not mix manganese batteries and other kinds of batteries.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you do not intend to use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.
- When you replace the batteries, the remote buttons may be reset to their factory settings. If this happens, reassign the button again (page 36).
- When the remote no longer operates the receiver, replace all the batteries with new ones.

6: Adjusting the speaker levels and balance (TEST TONE)

You can adjust the speaker levels and balance while listening to the test tone from your listening position.

Tip

The receiver employs a test tone with a frequency centered at 800 Hz.



- 1 Press AMP MENU.**
“T. TONE” appears on the display.
- 2 Press \oplus or \rightarrow to enter the parameter.**
- 3 Press \uparrow/\downarrow repeatedly to select “T. TONE Y”.**

The test tone is output from each speaker in sequence as follows:

Left \rightarrow Right \rightarrow Subwoofer

4 Adjust the speaker levels and balance so that the level of the test tone sounds the same from each speaker.

For detail, see “Customizing the receiver settings” (page 28).

Tips

- To adjust the level of all speakers at the same time, press MASTER VOL +/- . You can also use MASTER VOLUME on the receiver.
- The adjusted value are shown on the display during adjustment.

5 Repeat steps 1 to 3 to select “T. TONE N”.

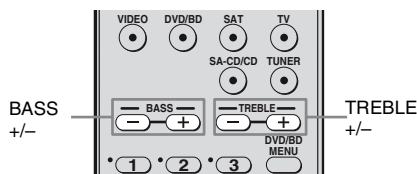
You can also press any input buttons. The test tone turns off.

When a test tone is not output from the speakers

- The speaker cords may not be connected securely.
- The speaker cords may have the short-circuit problem.

Adjusting the tone

You can adjust the tonal quality of the speakers.

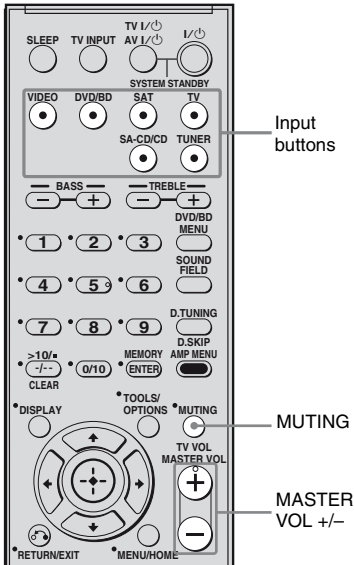


Press TREBLE + or TREBLE – repeatedly to adjust the treble level.

Press BASS + or BASS – repeatedly to adjust the bass level. You can adjust from –6 dB to +6 dB in 1 dB step.

The initial setting is 0 dB.

Selecting a component



1 Press the input button to select a component.

You can also use INPUT SELECTOR on the receiver.

The selected input appears on the display.

Selected input [Display]	Components that can be played back
VIDEO [VIDEO/PORTABLE AUDIO]*	MP3 player, etc., connected to the VIDEO IN/PORTABLE AUDIO IN jack
DVD/BD [DVD/BD]	DVD player, etc., connected to the DVD/BD jack
SAT [SAT]	Satellite tuner, set-top box, etc., connected to the SAT jack
TV [TV]	TV, etc., connected to the TV jack
SA-CD/CD [SA-CD/CD]	Super Audio CD player, CD player, etc., connected to the SA-CD/CD jack
TUNER [FM or AM band]	Built-in radio tuner

* “VIDEO/PORTABLE AUDIO” scrolls across the display, then “VIDEO” appears.

2 Turn on the component and start playback.

3 Press MASTER VOL +/- to adjust the volume.

You can also use MASTER VOLUME on the receiver.

To activate the muting function

Press MUTING.

The muting function will be canceled when you do the following.

- Press MUTING again.
- Increase the volume.
- Turn off the receiver.

To avoid damaging your speakers

Before you turn off the receiver, be sure to turn down the volume level.

Naming inputs

You can enter a name of up to 8 characters for inputs and display it on the receiver's display. This is convenient for labeling the jacks with the names of the connected components.

1 Press the input button to select the input you want to create an index name for.

You can also use INPUT SELECTOR on the receiver.

2 Press AMP MENU.

“T. TONE” appears on the display.

3 Press \uparrow/\downarrow repeatedly to select “NAME IN”, then press \oplus or \rightarrow .

The cursor flashes and you can select a character.

4 Press \uparrow/\downarrow to select a character, then press \leftarrow/\rightarrow to move the cursor to the next position.

If you made a mistake

Press \leftarrow/\rightarrow until the character you want to change flashes, then press \uparrow/\downarrow to select the correct character.

Tips

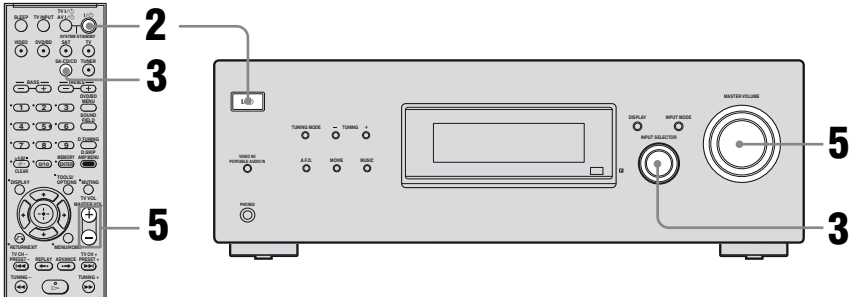
- You can select the character type as follows by pressing \uparrow/\downarrow .
Alphabet (upper case) \rightarrow Numbers \rightarrow
Symbols
- To enter a blank space, press \rightarrow without selecting a character.

5 Press \oplus .

The name you entered is registered.

Listening/Watching a component

Listening to a Super Audio CD/CD



Notes

- The operation is described for a Sony Super Audio CD player.
- Refer to the operating instructions supplied with the Super Audio CD player or CD player.

Tip

You can select the sound field to suit the music. Refer to page 29 for details.

Recommended sound fields:

Classical: HALL

Jazz: JAZZ

Live concert: CONCERT

1 Turn on the Super Audio CD player or CD player, then place the disc on the tray.

2 Turn on the receiver.

3 Press SA-CD/CD.

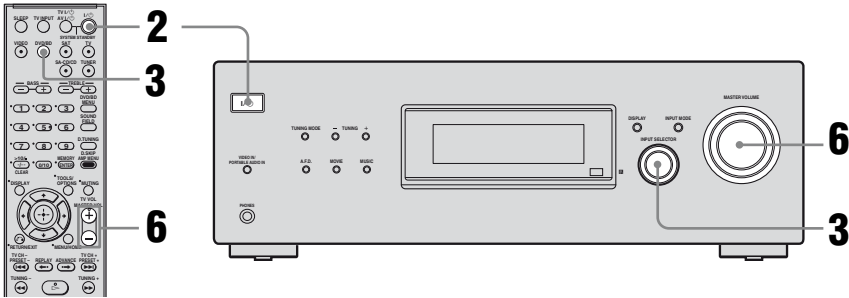
You can also use INPUT SELECTOR on the receiver to select “SA-CD/CD”.

4 Play back the disc.

5 Adjust to a suitable volume.

6 After you have finished listening to the Super Audio CD/CD, eject the disc and turn off the receiver and Super Audio CD player or CD player.

Watching a DVD/Blu-ray disc



Note

Refer to the operating instructions supplied with the TV and DVD player/Blu-ray disc player.

Tips

- Select the audio format of the disc to be played, if necessary.
- You can select the sound field to suit the movie/music. Refer to page 29 for details.

Recommended sound fields:

Movie: C.ST.EX

Music: CONCERT

1 Turn on the TV and DVD player/Blu-ray disc player.

2 Turn on the receiver.

3 Press DVD/BD.

You can also use INPUT SELECTOR on this receiver to select “DVD/BD”.

Be sure to change the factory setting of the DVD/BD input button on the remote so that you can use the button to control your Blu-ray disc player. For details, see “Changing button assignments” (page 36).

4 Switch the input of the TV so that an image of the DVD/Blu-ray disc is displayed.

If no image is displayed on the TV screen, make sure that the video output of the DVD player or Blu-ray disc player is connected to the TV.

5 Play back the disc.

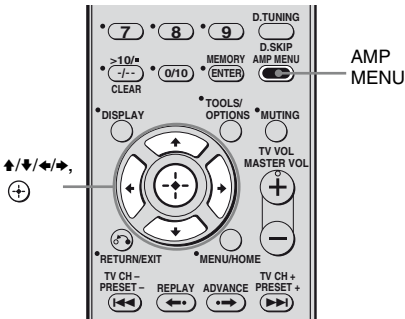
6 Adjust to a suitable volume.

7 After you have finished watching the DVD/Blu-ray disc, eject the disc and turn off the receiver, TV and DVD player/Blu-ray disc player.

Amplifier Operations

Navigating through menus

By using the amplifier menus, you can make various adjustments to customize the receiver.



1 Press AMP MENU.

“T. TONE” appears on the display.

2 Press \uparrow/\downarrow repeatedly to select the parameter you want to adjust.

3 Press \oplus or \rightarrow to enter the parameter.

4 Press \uparrow/\downarrow repeatedly to select the setting you want.

The setting is entered automatically.

To return to the previous display

Press \leftarrow .

To exit the menu

Press AMP MENU.

Note

Some parameters and settings may appear dimmed on the display. This means that they are either unavailable or fixed and unchangeable.

Overview of the menus

For details on navigating through the setup parameters, see page 26.

Parameters [Display]	Settings	Initial setting
Test tone* [T. TONE]	T. TONE N, T. TONE Y	T. TONE N
Front speaker balance* [FRT BAL]	BAL. L +1 to BAL. L +8, BALANCE, BAL. R +1 to BAL. R +8	BALANCE
Subwoofer level [SW LVL]	SW -10 dB to SW +10 dB (1 dB step)	SW 0 dB
Dynamic range compressor* [D. RANGE]	COMP. OFF, COMP. STD, COMP. MAX	COMP. OFF
Digital broadcast language selection* [DUAL]	DUAL M/S, DUAL M, DUAL S, DUAL M+S	DUAL M
Synchronizes audio with video output* [A.V. SYNC.]	A.V.SYNC. N, A.V.SYNC. Y	A.V.SYNC. N
Naming inputs* [NAME IN]	For details, see “Naming inputs” (page 23).	
Brightness of the display* [DIMMER]	0% dim, 40% dim, 70% dim	0% dim

* For details, refer to the page in the parentheses.

Customizing the receiver settings

You can adjust various receiver setting to suit your preference. For details on adjusting the parameters, see “Navigating through menus” (page 26) and “Overview of the menus” (page 27).

■ T. TONE (Test tone)

Lets you adjust the speaker levels and balance while listening to the test tone from your listening position. For details, see “6: Adjusting the speaker levels and balance (TEST TONE)” (page 20).

■ FRT BAL (Front speaker balance)

Lets you adjust the balance between front left and right speakers.

■ SW LVL (Subwoofer level)

You can adjust from -10 dB to +10 dB in 1 dB step.

■ D. RANGE (Dynamic range compressor)

Lets you compress the dynamic range of the sound track. This may be useful when you want to watch movies at low volumes late at night. Dynamic range compression is possible with Dolby Digital sources only.

- COMP. OFF
The dynamic range is not compressed.
- COMP. STD
The dynamic range is compressed as intended by the recording engineer.
- COMP. MAX
The dynamic range is compressed dramatically.

Tip

Dynamic range compressor lets you compress the dynamic range of the soundtrack based on the dynamic range information included in the Dolby Digital signal.

“COMP. STD” is the standard setting, but it only enacts light compression. Therefore, we recommend using the “COMP. MAX” setting. This greatly compresses the dynamic range and lets you view movies late at night at low volumes. Unlike analog limiters, the levels are predetermined and provide a very natural compression.

■ DUAL (Digital broadcast language selection)

Lets you select the language you want to listen to during digital broadcast. This feature only functions for Dolby Digital sources.

- DUAL M/S (Main/Sub)
Sound of the main language will be output through the front left speaker and sound of the sub language will be output through the front right speaker simultaneously.
- DUAL M (Main)
Sound of the main language will be output.
- DUAL S (Sub)
Sound of the sub language will be output.
- DUAL M+S (Main + Sub)
Mixed sound of both the main and sub languages will be output.

■ A.V. SYNC. (Synchronizes audio with video output)

- A.V.SYNC. N (No) (Delay time: 0 ms)
The audio output is not delayed.
- A.V.SYNC. Y (Yes) (Delay time: 60 ms)
The audio output is delayed so that the time gap between the audio output and visual display is minimized.

Notes

- This parameter is useful when you use a large LCD or plasma monitor or a projector.
- This parameter is valid only when you use a sound field selected with the A.F.D. button.
- This parameter is not valid when signals with a sampling frequency of more than 48 kHz are input.

■ NAME IN (Naming inputs)

Lets you set the name of inputs. For details, see “Naming inputs” (page 23).

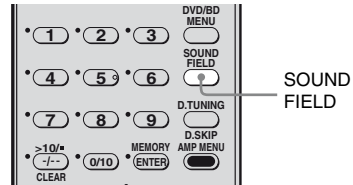
■ DIMMER (Brightness of the display)

Lets you adjust the brightness in 3 steps.

Enjoying Surround Sound

Selecting the sound field

You can take advantage of surround sound simply by selecting one of the receiver’s pre-programmed sound fields. They bring the exciting and powerful sound of movie theaters and concert halls into your home.



Press SOUND FIELD repeatedly to select the sound field you want

For details, see “Types of sound field available” (page 30).

Types of sound field available

Sound field for	Sound field [Display]	Effect
A.F.D.	A.F.D. AUTO [A.F.D. AUTO]	This mode presents the sound as it was recorded/encoded without adding any surround effects. However, this receiver will generate a low frequency signal for output to the subwoofer when there is no LFE signals.
Movie	CINEMA STUDIO EX A DCS [C.ST.EX A]	Reproduces the sound characteristics of the Sony Pictures Entertainment "Cary Grant Theater" cinema production studio. This is a standard mode, great for watching almost any type of movie.
	CINEMA STUDIO EX B DCS [C.ST.EX B]	Reproduces the sound characteristics of the Sony Pictures Entertainment "Kim Novak Theater" cinema production studio. This mode is ideal for watching science-fiction or action movies with lots of sound effects.
	CINEMA STUDIO EX C DCS [C.ST.EX C]	Reproduces the sound characteristics of the Sony Pictures Entertainment scoring stage. This mode is ideal for watching musicals or films where orchestra music is featured in the soundtrack.
Music	PORTABLE AUDIO ENHANCER [PORTABLE]	Reproduces a clear enhanced sound image from your portable audio device. This mode is ideal for MP3 and other compressed music.
	HALL [HALL]	Reproduces the acoustics of a classical concert hall.
	JAZZ CLUB [JAZZ]	Reproduces the acoustics of a jazz club.
	LIVE CONCERT [CONCERT]	Reproduces the acoustics of a 300-seat live house.
Headphone*	HEADPHONE 2CH [HP 2CH]	This mode is selected automatically if you use headphones when 2CH STEREO mode/A.F.D. mode is selected. Standard 2 channel stereo sources completely bypass the sound field processing and multi channel surround formats are downmixed to 2 channels.

* You can only select this sound field if the headphones are connected to the receiver.

Notes

- The effects provided by the virtual speakers may cause increased noise in the playback signal.
- This function does not work for signals with a sampling frequency of more than 48 kHz.

Tips

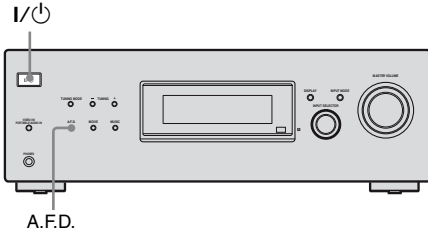
- You can identify the encoding format of DVD software, etc., by looking at the logo on the package.
- Sound fields with **DCS** mark use DCS technology. See "Glossary" (page 37).

To turn off the surround effect for movie/music

Press SOUND FIELD repeatedly to select "A.F.D. AUTO".

Resetting sound fields to the initial settings

Be sure to use the buttons on the receiver for this operation.



- 1** Press I/⏻ to turn off the receiver.
- 2** While holding down A.F.D., press I/⏻.
“S.F. CLR.” appears on the display and all sound fields are reset to their initial setting.

Tuner Operations

Listening to FM/AM radio

You can listen to FM and AM broadcasts through the built-in tuner. Before operation, make sure you have connected the FM and AM antennas to the receiver (page 18).

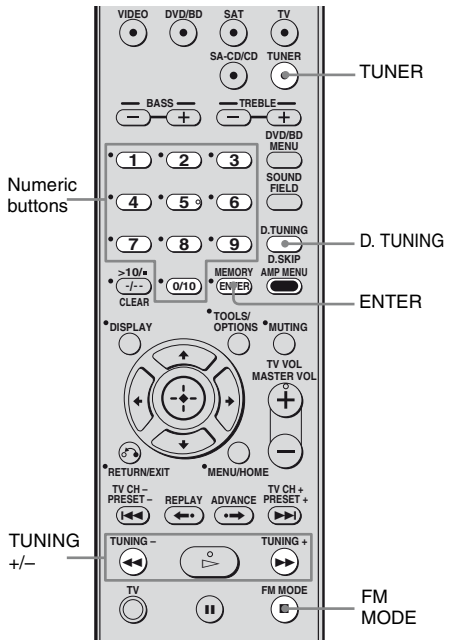
Tip

The tuning scale differs depending on the area code as shown in the following table. For details on area codes, see page 2.

Area code	FM	AM
SA	50 kHz	9 kHz*

* The AM tuning scale can be changed (page 32).

Tuner Operations



Tuning into a station automatically (Automatic Tuning)

1 Press TUNER repeatedly to select the FM or AM band.

You can also use INPUT SELECTOR on the receiver.

2 Press TUNING + or TUNING –.

Press TUNING + to scan from low to high; press TUNING – to scan from high to low.

The receiver stops scanning whenever a station is received.

In case of poor FM stereo reception

If the FM stereo reception is poor and “ST” flashes on the display, select monaural audio so that the sound will be less distorted.

Press FM MODE repeatedly until the “MONO” indicator lights up on the display. To return to stereo mode, press FM MODE repeatedly until the “MONO” indicator on the display lights off.

Tuning into a station directly (Direct Tuning)

You can enter the frequency of a station directly by using the numeric buttons.

1 Press TUNER repeatedly to select the FM or AM band.

You can also use INPUT SELECTOR on the receiver.

2 Press D.TUNING.

3 Press the numeric buttons to enter the frequency.

Example 1: FM 102.50 MHz

Select 1 → 0 → 2 → 5 → 0

Example 2: AM 1,350 kHz

Select 1 → 3 → 5 → 0

Tip

If you have tuned in an AM station, adjust the direction of the AM loop antenna for optimum reception.

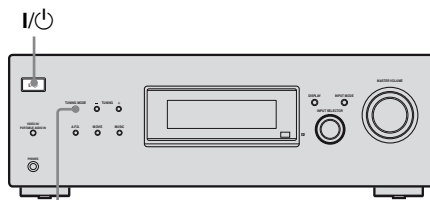
4 Press ENTER.

If you cannot tune in a station

Make sure you have entered the right frequency. If not, repeat steps 2 to 4. If you still cannot tune in a station, the frequency is not used in your area.

Changing the AM tuning scale

You can change the AM tuning scale to either 9 kHz or 10 kHz using the buttons on the receiver.



TUNING MODE

1 Press I/O to turn off the receiver.

2 While holding down TUNING MODE, press I/O.

3 Change the current AM tuning scale to 9 kHz (or 10 kHz).

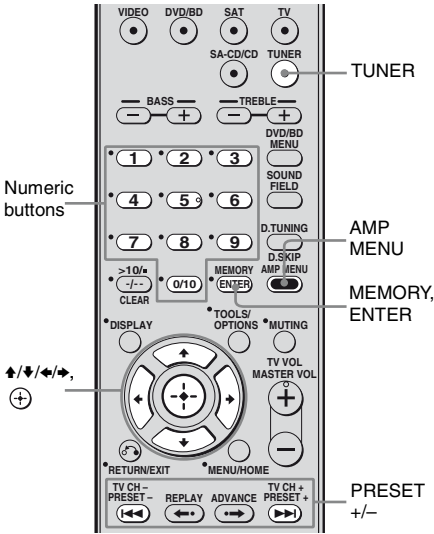
To reset the scale to 10 kHz (or 9 kHz), repeat the procedure above.

Note

All preset stations will be erased when you change the tuning scale.

Presetting radio stations

You can preset up to 30 FM stations and 30 AM stations. Then you can easily tune in the stations you often listen to.



1 Press TUNER repeatedly to select the FM or AM band.

You can also use INPUT SELECTOR on the receiver.

2 Tune in the station that you want to preset using Automatic Tuning (page 32) or Direct Tuning (page 32).

Switch the FM reception mode, if necessary (page 32).

3 Press MEMORY.

“MEMORY” lights up for a few seconds. Perform steps 4 and 5 before “MEMORY” goes out.

4 Press the numeric buttons to select a preset number.

You can also press PRESET + or PRESET – repeatedly to select a preset number.

If “MEMORY” goes out before you select the preset number, start again from step 3.

5 Press ENTER.

The station is stored as the selected preset number.

If “MEMORY” goes out before you press ENTER, start again from step 3.

6 Repeat steps 1 to 5 to preset another station.

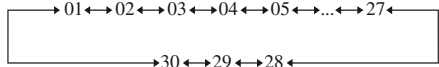
Tuning to preset stations

1 Press TUNER repeatedly to select the FM or AM band.

You can also use INPUT SELECTOR on the receiver.

2 Press PRESET + or PRESET – repeatedly to select the preset station you want.

Each time you press the button, you can select a preset station as follows:



You can also press the numeric buttons to select the preset station you want. Then, press ENTER to enter the selection.

Using the controls on the receiver

- 1 Turn INPUT SELECTOR to select the FM or AM band.
- 2 Press TUNING MODE repeatedly to select “PRESET T.”.
- 3 Press TUNING + or TUNING – repeatedly to select the preset station you want.

Naming preset stations

- 1 **Press TUNER repeatedly to select the FM or AM band.**
You can also use INPUT SELECTOR on the receiver.
- 2 **Tune in the preset station you want to create an index name for (page 33).**
- 3 **Press AMP MENU.**
“T.TONE” appears on the display.
- 4 **Press \uparrow/\downarrow repeatedly to select “NAME IN”, then press \oplus or \rightarrow .**
The cursor flashes and you can select a character.
- 5 **Press \uparrow/\downarrow to select a character, then press \leftarrow/\rightarrow to move the cursor to the next position.**
If you made a mistake
Press \leftarrow/\rightarrow until the character you want to change flashes, then press \uparrow/\downarrow to select the correct character.
Tips
 - You can select the character type as follows by pressing \uparrow/\downarrow .
Alphabet (upper case) \rightarrow Numbers \rightarrow Symbols
 - To enter a blank space, press \rightarrow without selecting a character.
- 6 **Press \oplus .**
The name you entered is registered.

Other Operations

Switching between digital and analog audio (INPUT MODE)

When you connect components to both digital and analog audio input jacks on the receiver, you can fix the audio input mode to either of them, or switch from one to the other, depending on the type of material you intend to watch.

- 1 **Turn INPUT SELECTOR on the receiver to select the input.**
You can also use the input buttons on the remote.
- 2 **Press INPUT MODE repeatedly on the receiver to select the audio input mode.**
The selected audio input mode appears on the display.

Audio input modes

■ AUTO

Gives priority to digital audio signals when there are both digital and analog connections. If there are no digital audio signals, analog audio signals are selected.

■ ANALOG

Specifies the analog audio signals input to the AUDIO IN (L/R) jacks.

Note

Some audio input modes may not be set up depending on the input.

Changing the display

You can check the sound field, etc., by changing the information on the display. Be sure to use the buttons on the receiver for this operation.

Press DISPLAY repeatedly.

Each time you press the button, the display changes cyclically as follows.

All inputs except the FM and AM band

Index name of the input* → Selected input → Sound field currently applied

FM and AM band

Preset station name* → Frequency → Sound field currently applied

* Index name appears only when you have assigned one to the input or preset station (page 23, 34). Index name does not appear when only blank spaces have been entered, or it is the same as the input name.

Note

Character or marks may not be displayed for some languages.

Using the Sleep Timer

You can set the receiver to turn off automatically at a specified time.

Press SLEEP repeatedly while the power is on.

Each time you press the button, the display changes cyclically as follows:

2-00-00 → 1-30-00 → 1-00-00 → 0-30-00
→ OFF

When sleep timer is activated, the display dims.

Note

If you press any buttons on the remote or receiver after the display dims, the display brightens up. After a while, the display dims again if no button is pressed.

Tip

To check the remaining time before the receiver turns off, press SLEEP. The remaining time appears on the display. If you press SLEEP again, the sleep timer will be canceled.

Changing button assignments

You can change the factory settings of the input buttons to suit the components in your system. For example, if you connect a DVD player to the SAT jacks on the receiver, you can set the SAT button on this remote to control the DVD player.

Note

You cannot change the setting of TUNER button.

1 Hold down the input button of which you want to change the assignment.

Example: Hold down SAT.

2 Referring to the table below, press the corresponding button for the category you want.

Example: Press 3.

Now you can use the SAT button to control the DVD player.

Categories and the corresponding buttons

Categories	Press
VCR (command mode VTR 3) ^{a)}	1
VCR (command mode VTR 2) ^{a)}	2
DVD player/DVD recorder (command mode DVD1) ^{b)}	3
DVD recorder (command mode DVD3) ^{b)}	4
CD player	5
Euro Digital Satellite Receiver	6
DVR (Digital CATV terminal)	7
DSS (Digital Satellite Receiver)	8
Blu-ray disc player (command mode BD1) ^{c)}	9
Blu-ray disc recorder (command mode BD3) ^{c)}	0/10
TV	-/--

^{a)} Sony VCRs are operated with a VTR 2 or VTR 3 setting which corresponds to 8 mm and VHS respectively.

^{b)} Sony DVD recorders are operated with a DVD1 or DVD3 setting. For details, refer to the operating instructions supplied with the DVD recorders.

^{c)} For details on the BD1 or BD3 setting, refer to operating instructions supplied with the Blu-ray disc player or Blu-ray disc recorder.

To clear all remote button assignments

While holding down MASTER VOL –, press I/⏪ and TV INPUT.

The remote is reset to its factory settings.

Glossary

■ Cinema Studio EX

A surround sound mode that can be regarded as the compilation of Digital Cinema Sound technology, delivers the sound of a dubbing theater using three technologies: “Virtual Multi Dimensions”, “Screen Depth Matching”, and “Cinema Studio Reverberation”.

“Virtual Multi Dimensions”, the virtual speaker technology, creates a virtual multi-surround environment with actual speakers up to 7.1 channels, and brings the surround sound experience of a theater with the latest facilities into your home.

“Screen Depth Matching” reproduces treble attenuation, fullness, and depth of sound usually created in a theater using sound emission from behind the screen. This is then added to the front and center channels.

“Cinema Studio Reverberation” reproduces the sound characteristics of state-of-the-art dubbing theaters and recording studios, including Sony Pictures Entertainment’s dubbing studios. There are three modes, A/B/C, available according to the studio type.

■ Digital Cinema Sound (DCS)

A unique sound reproduction technology for home theater developed by Sony, in cooperation with Sony Pictures Entertainment, for enjoying the exciting and powerful sound of movie theaters at home. With this “Digital Cinema Sound” developed by integrating a DSP (Digital Signal Processor) and measured data, the ideal sound field intended by filmmakers can be experienced at home.

■ Dolby Digital

Digital audio encoding/decoding technology developed by Dolby Laboratories, Inc. It consists of front (left/right), center, surround (left/right) and subwoofer channels. It is a designated audio standard for DVD video and also known as 5.1 channel surround. Since surround information is recorded and reproduced in stereo, more realistic sound with fuller presence is delivered than with Dolby surround.

■ DTS Digital Surround

Digital audio encoding/decoding technology for theaters developed by DTS, Inc. It compresses audio less than Dolby Digital, delivering a higher quality sound reproduction.

■ PCM (Pulse Code Modulation)

A method of converting analog audio to digital audio for easy enjoyment of digital sound.

■ Sampling frequency

To convert analog audio to digital, analog data should be quantified. This process is called sampling, and the number of times per second the analog data is quantified is called the sampling frequency. A standard music CD stores data quantified at 44,100 times per second, which is expressed as a sampling frequency of 44.1 kHz. Generally speaking, a higher sampling frequency means better sound quality.

Precautions

On safety

Should any solid object or liquid fall into the cabinet, unplug the receiver and have it checked by qualified personnel before operating it any further.

On power sources

- Before operating the receiver, check that the operating voltage is identical with your local power supply.
The operating voltage is indicated on the nameplate on the back of the receiver.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- If you are not going to use the receiver for a long time, be sure to disconnect the receiver from the wall outlet. To disconnect the AC power cord, grasp the plug itself; never pull the cord.
- The AC power cord must be changed only at a qualified service shop.

On heat buildup

Although the receiver heats up during operation, this is not a malfunction. If you continuously use this receiver at a large volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.

On placement

- Place the receiver in a location with adequate ventilation to prevent heat buildup and prolong the life of the receiver.
- Do not place the receiver near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- Do not place anything on top of the cabinet that might block the ventilation holes and cause malfunctions.
- Do not place the receiver near equipment such as a TV, VCR, or tape deck. (If the receiver is being used in combination with a TV, VCR, or tape deck, and is placed too close to that equipment, noise may result, and picture quality may suffer. This is especially likely when using an indoor antenna. Therefore, we recommend using an outdoor antenna.)
- Use caution when placing the receiver or speakers on surfaces that have been specially treated (with wax, oil, polish, etc.) as staining or discoloration of the surface may result.

On operation

Before connecting other components, be sure to turn off and unplug the receiver.

If you encounter color irregularity on a nearby TV screen

The front speakers and the subwoofers are magnetically shielded to allow it to be installed near a TV set. However, color irregularities may still be observed on certain types of TV sets.

If color irregularity is observed...

Turn off the TV set, then turn it on again after 15 to 30 minutes.

If color irregularity is observed again...

Place the speaker further away from the TV set.

If howling occurs

Reposition the speakers or turn down the volume on the receiver.

On cleaning

Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine.

If you have any questions or problems concerning your receiver, please consult your nearest Sony dealer.

Troubleshooting

If you experience any of the following difficulties while using the receiver, use this troubleshooting guide to help you remedy the problem.

Audio

There is no sound, no matter which component is selected, or only a very low-level sound is heard.

- Check that the speakers and components are connected securely.
- Check that all speaker cords are connected correctly.
- Check that both the receiver and all components are turned on.
- Check that MASTER VOLUME is not set to "VOL MIN".
- Check that headphones are not connected.
- Press MUTING on the remote to cancel the muting function.
- Check that you have selected the correct component with the input buttons (page 22).
- The protective device on the receiver has been activated. Turn off the receiver, eliminate the short-circuit problem, and turn on the power again.

There is no sound from a specific component.

- Check that the component is connected correctly to the audio input jacks for that component.
- Check that the cord(s) used for the connection is (are) fully inserted into the jacks on both the receiver and the component.
- Check that you have selected the correct component with the input buttons.

There is no sound from one of the front speakers.

- Connect a pair of headphones to the PHONES jack to verify that sound is output from the headphones. If only one channel is output from the headphones, the component may not be connected to the receiver correctly. Check that all the cords are fully inserted into the jacks on both the receiver and the component. If both channels are output from the headphones, the front speaker may not be connected to the receiver correctly. Check the connection of the front speaker which is not outputting any sound.
- Make sure you have connected to both the L and R jacks of an analog component, and not only to either the L or R jack. Use an audio cord (not supplied).

There is no sound from digital sources (from OPTICAL input jack).

- Check that the INPUT MODE is set to "AUTO".

The left and right sounds are unbalanced or reversed.

- Check that the speakers and components are connected correctly and securely.
- Adjust the balance parameters using the FRT BAL menu (page 27).

There is severe hum or noise.

- Check that the speakers and components are connected securely.
- Check that the connecting cords are away from a transformer or motor, and at least 3 meters away from a TV set or fluorescent light.
- Move your audio components away from the TV.
- The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.

There is severe hum, interrupted noise or distortion from the component connected to the VIDEO IN/PORTABLE AUDIO IN jack.

- Check that the components are connected securely.
- This is not a malfunction and will depend on the connected component.

There is no sound from the subwoofer.

- Check that the subwoofer is connected correctly and securely.

The surround effect cannot be obtained.

- Make sure the sound field function is on (press MOVIE or MUSIC).
- Sound fields do not function for signals with a sampling frequency of more than 48 kHz.

Dolby Digital or DTS surround sound is not reproduced.

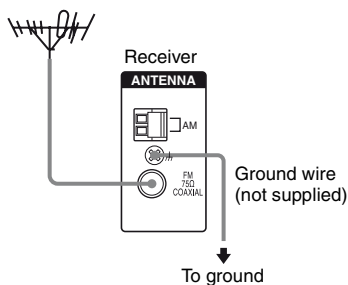
- Check that the DVD, etc. you are playing is recorded in Dolby Digital or DTS format.
 - When connecting the DVD player, etc. to the digital input jacks of this receiver, check the audio setting (the settings for the audio output) of the connected component.
-

Tuner

The FM reception is poor.

- Use a 75-ohm coaxial cable (not supplied) to connect the receiver to an outdoor FM antenna as shown below. If you connect the receiver to an outdoor antenna, ground it against lightning. To prevent a gas explosion, do not connect the ground wire to a gas pipe.

Outdoor FM antenna



Radio stations cannot be tuned in.

- Check that the antennas are connected securely. Adjust the antennas and connect an external antenna, if necessary.
- The signal strength of the stations is too weak (when tuning in with automatic tuning). Use direct tuning.
- Make sure you set the tuning interval correctly (when tuning in AM stations with direct tuning).
- No stations have been preset or the preset stations have been cleared (when tuning by scanning preset stations). Preset the stations (page 33).
- Press DISPLAY repeatedly on the receiver so that the frequency appears on the display.

Remote commander

The remote does not function.

- Point the remote at the remote sensor on the receiver.
- Remove any obstacles in the path between the remote and the receiver.
- Replace all the batteries in the remote with new ones, if they are weak.
- Make sure you select the correct input on the remote.

Error messages

If there is a malfunction, the display shows a message. You can check the condition of the system by the message. Refer to the following table to solve the problem. If any problem persists, consult your nearest Sony dealer.

PROTECT

Irregular current is output to the speakers, or the upper panel of the receiver is covered with something. The receiver will automatically turn off after a few seconds. Check the speaker connection and turn on the power again.

If you are unable to remedy the problem using the troubleshooting guide

Clearing the receiver's memory may remedy the problem (page 19). However, note that all memorized settings will be reset to their initial settings and you will have to readjust all settings on the receiver.

If the problem persists

Consult your nearest Sony dealer. Note that if service personnel changes some parts during repair, these parts may be retained.

Reference sections for clearing the memory

To clear	See
All memorized settings	page 19
Customized sound fields	page 31

Specifications

Amplifier section

Models of area code SA¹⁾

Power Output

Stereo mode (rated) (6 ohms, 1 kHz, THD 1%)
70 W + 70 W

Surround mode²⁾ (reference) (6 ohms, 1 kHz,
THD 10%)

RMS output

FRONT: 100 W per channel

Surround mode²⁾ (reference) (10 ohms,
100 Hz, THD 10%)

SUBWOOFER: 60 W per channel

¹⁾Measured under the following conditions:

Area code	Power requirements
SA	230 V AC, 50 Hz

²⁾Reference power output for front speakers and subwoofer. Depending on the sound field settings and the source, there may be no sound output.

Inputs

Analog Sensitivity: 1 V/
50 kohms

Digital (Coaxial) Impedance: 75 ohms

Tone

Gain levels ± 6 dB, 1 dB step

Reproduction frequency range:

28 – 20,000 Hz

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna FM wire antenna

Antenna terminals 75 ohms, unbalanced

Intermediate frequency

10.7 MHz

AM tuner section

Tuning range

Area code	Tuning scale	
	10 kHz step	9 kHz step
SA	530 kHz – 1,610 kHz	531 kHz – 1,602 kHz

Antenna Loop antenna

Intermediate frequency
450 kHz

General

Power requirements

Area code	Power requirements
SA	230 – 240 V AC, 50/60 Hz

Power consumption

Area code	Power consumption
SA	220 W

Power consumption (during standby mode)
0.3 W

Dimensions (width/height/depth) (Approx.)
430 × 145 × 306 mm
including projecting parts
and controls

Mass (Approx.) 7.6 kg

Speaker section

• Front speaker (SS-MSP2500)

Speaker system 2-way, Bass reflex,
Magnetically shielded

Speaker unit

Woofer: 160 mm, cone type

Tweeter: 25 mm, horn type

Rated Impedance 6 ohms

Dimensions (width/height/depth) (Approx.)
230 × 905 × 285 mm
(with foot)

Mass (Approx.) 11 kg

• Subwoofer (SS-WP3000)

Speaker system Bass reflex, Magnetically
shielded

Speaker unit 200 mm, cone type

Rated Impedance 10 ohms

Dimensions (width/height/depth) (Approx.)
275 × 345 × 305 mm
(with foot)

Mass (Approx.) 5.8 kg

Supplied speakers

- Front speaker (2)
- Subwoofer (2)

Supplied accessories

Operating instructions (this manual)

Quick Setup Guide (1)

FM wire antenna (1)

AM loop antenna (1)

Coaxial digital cord (1)

Speaker cords

- Short (2)
- Foot pads
- Subwoofer (8)

Remote commander (RM-AAU059) (1)

R6 (size-AA) batteries (2)

For details on the area code of the
component you are using, see page 2.

Design and specifications are subject to
change without notice.

Halogenated flame retardants are not used in the
certain printed wiring boards.

Index

A

AM Tuning scale 32

B

Bass 21

Blu-ray disc player
connecting 16
playback 25

C

CD player
connecting 14
playback 24

D

Digital Cinema Sound
(DCS) 37

Dolby Digital 37

DTS 37

DVD player
connecting 16
playback 25

E

Error messages 41

I

Initial setup 19

INPUT MODE 34

M

Muting 22

N

Naming 23, 34

P

Portable audio
connecting 14

R

Remote commander 8

S

Satellite tuner/Set-top box
connecting 16

Sleep Timer 35

Sound fields
resetting 31

Speakers
connecting 12
installing 11

Super Audio CD player
connecting 14
playback 24

T

TEST TONE 20

Treble 21

Tuner
connecting 18

Tuning
directly 32
to preset stations 33

TV
connecting 16



* 4 1 2 7 4 1 4 1 2 * (1)