

Integrated Stereo Amplifier

Operating Instructions

TA-DK2

WARNING

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

To prevent fire, do not cover the ventilation of the apparatus with newspapers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, 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.

Install this system so that the power cord can be unplugged from the wall socket immediately in the event of trouble.



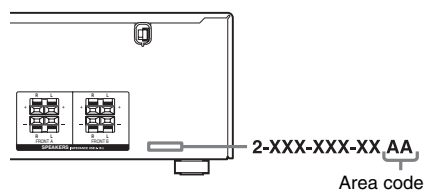
Don't throw away batteries with general house waste; dispose of them correctly as chemical waste.

About This Manual

- The instructions in this manual are for model TA-DK2. Check your model number by looking at the lower right corner of the front panel. In this manual, models of area code SP is used for illustration purposes unless stated otherwise. Any difference in operation is clearly indicated in the text, for example, "Models of area code SP only".
- The instructions in this manual describe the controls on the supplied remote. You can also use the controls on the amplifier if they have the same or similar names as those on the remote.

About area codes

The area code of the amplifier 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".

Table of Contents

Getting Started

Description and location of parts	4
1: Installing speakers.....	11
2: Connecting speakers	12
3: Connecting the audio/video components	13
4: Preparing the amplifier and the remote... 16	
5: Selecting the speaker system	17

Playback

Selecting a component	18
Listening/Watching a component.....	19

Amplifier Operations

Adjusting the speaker level	21
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Karaoke Operations

Using the karaoke.....	22
Settings for the advance karaoke function	24
Adjusting echo effect	26

Other Operations

Changing the display.....	28
Using the sleep timer.....	28
Using the optional karaoke scoring system	29

Using the Remote

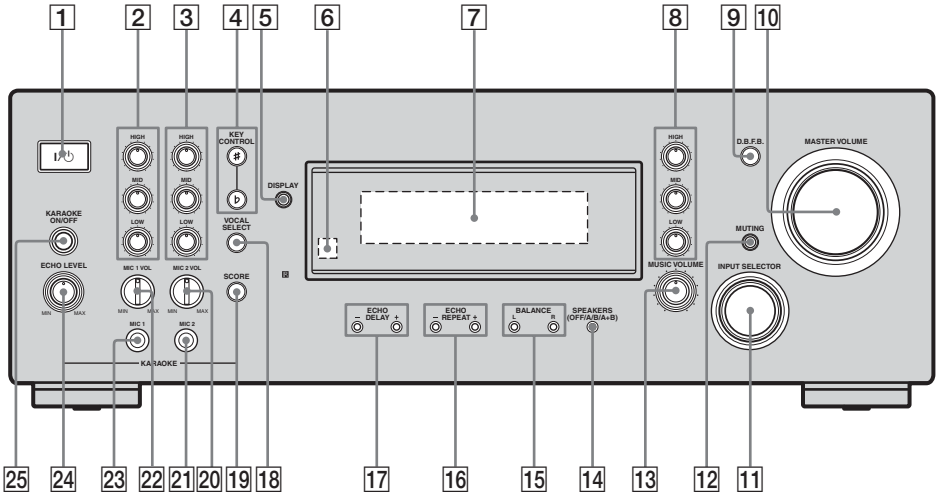
Changing button assignments.....	29
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Additional Information

Precautions	30
Troubleshooting.....	31
Specifications	33
Index	34

Description and location of parts

Front panel

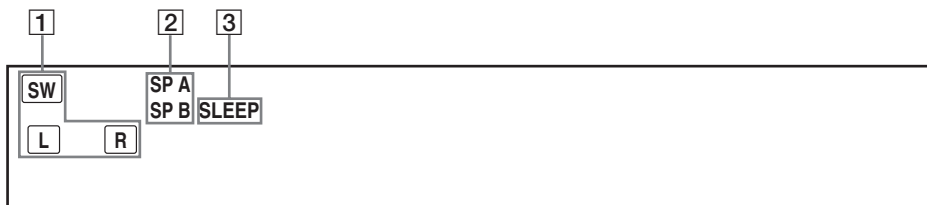


Name	Function
1 I/O (on/standby)	Press to turn the amplifier on or off (page 16, 19, 20).
2 MIC 1 Tone knobs (LOW/MID/HIGH)	Turn to adjust the microphone 1 tone level (page 23).
3 MIC 2 Tone knobs (LOW/MID/HIGH)	Turn to adjust the microphone 2 tone level (page 23).
4 KEY CONTROL #/b	Press to adjust the pitch of the music (page 25).
5 DISPLAY	Press to select information displayed on the display (page 28).
6 Remote sensor	Receives signals from remote commander.
7 Display	The current status of the selected component or a list of selectable items appears here (page 6).

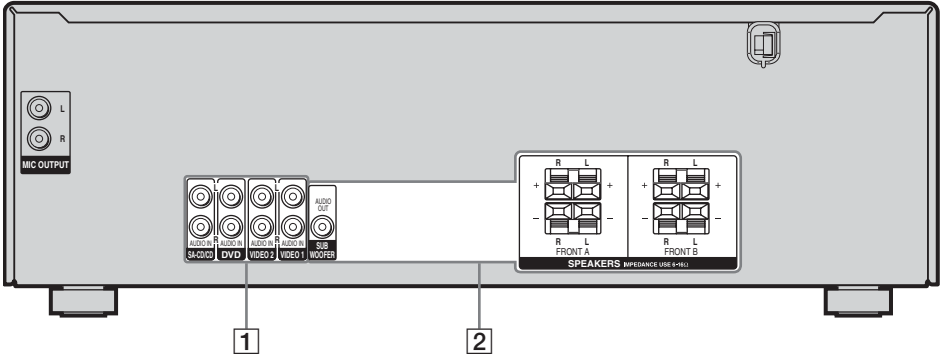
Name	Function
8 Music Tone knobs (LOW/MID/HIGH)	Turn to adjust the music tone level (page 23).
9 D.B.F.B.	Press to activate the Dynamic Bass Feedback (D.B.F.B.) function (page 22).
10 MASTER VOLUME	Turn to adjust the volume level of all speakers at the same time (page 18, 19, 20).
11 INPUT SELECTOR	Turn to select the input source to playback (page 18, 19, 20, 22).
12 MUTING	Press to mute the sound.
13 MUSIC VOLUME	Turn to adjust the music volume level (page 22, 23).

Name	Function
14 SPEAKERS (OFF/A/B/A+B)	Press to select OFF, A, B, A+B of the front speakers (page 17).
15 BALANCE L/R	Press to adjust the front speakers balance level.
16 ECHO REPEAT +/-	Press to adjust the microphone's echo repeat times (page 27).
17 ECHO DELAY +/-	Press to adjust the microphone's echo delay time (page 27).
18 VOCAL SELECT	Press to select the vocal type when singing karaoke.
19 SCORE	Press to activate the scoring system (page 25).
20 MIC 2 VOL	Turn to adjust the microphone 2 volume level (page 22).
21 MIC 2 jack	Connects to a microphone.
22 MIC 1 VOL	Turn to adjust the microphone 1 volume level (page 22).
23 MIC 1 jack	Connects to a microphone.
24 ECHO LEVEL	Turn to adjust the microphone's echo level (page 23, 26).
25 KARAOKE ON/OFF	Press to turn karaoke function on or off (page 22).

About the indicators on the display





Name	Function
1 Playback channel indicators SW L R	Indicate that audio signal is output from the front left speaker, front right speaker and sub woofer. Sub Woofer Front Left Front Right
2 SP A/SP B	Lights up according to the speaker system used. However, these indicators do not light up if the speaker output is turned off.
3 SLEEP	Lights up when the sleep timer is activated (page 28).



1 AUDIO INPUT section

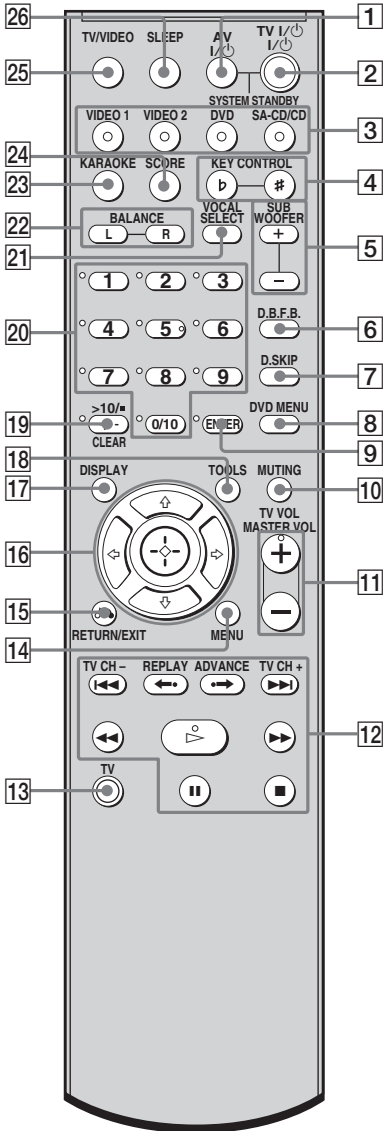
-  White (L) AUDIO IN Connects to a Super Audio CD or CD player, etc. (page 14, 15).
-  Red (R)

2 SPEAKER section

-  Connects to front speakers (page 12).
-  Connects to sub woofer (page 12).

Remote commander

You can use the supplied remote RM-AAU011 to operate the amplifier and to control the Sony audio/video components that the remote is assigned to operate (page 29).




Name	Function
1 AV I/O (on/standby)	Press to turn on or off the Sony audio/video components that the remote is assigned to operate (page 29). If you press I/O (2) at the same time, it will turn off the amplifier and other components (SYSTEM STANDBY). Note The function of the AV I/O switch changes automatically each time you press the input buttons (3).
2 TV I/O (on/standby)	Press TV I/O and TV (13) at the same time to turn the TV on or off.
I/O (on/standby)	Press to turn the amplifier on or off. To turn off all components, press I/O and AV I/O (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 amplifier turns on. The buttons are factory assigned to control Sony components as follows. You can change the button assignments following the steps in "Changing button assignments" on page 29.
Button	Assigned Sony component
VIDEO 1	VCR (VTR mode 3)
VIDEO 2	VCR (VTR mode 2)
DVD	DVD player
SA-CD/CD	Super Audio CD/CD player
4 KEY CONTROL #/b	Press to adjust the pitch of a music (page 25).
5 SUB WOOFER +/-	Press to adjust the subwoofer level (page 21).
6 D.B.F.B.	Press to activate the Dynamic Bass Feedback (D.B.F.B.) function (page 22).

Name	Function
7 D.SKIP	Press to skip disc of the CD player or DVD player (multi-disc changer only).
8 DVD MENU	Press to display the menu of the DVD player on the TV screen. Then, use the control buttons to perform menu operations.
9 ENTER	Press to enter the value after selecting a channel, disc or track using the numeric buttons.
10 MUTING	Press to mute the sound (page 18).
11 TV VOL +^{a)}/-	Press TV VOL +/- and TV (13) at the same time to adjust the TV volume level.
MASTER VOL +^{a)}/-	Press to adjust the volume level of all speakers at the same time.
12 ◀◀/▶▶	Press to skip tracks of the CD player or DVD player.
REPLAY ◀-/ ADVANCE ▶-	Press to replay the previous scene or fast forward the current scene of the VCR or DVD player.
◀◀/▶▶	Press to – search tracks in the forward/backward direction of the DVD player. – fast forward/rewind of the VCR, CD player, MD deck, or tape deck.
▷^{a)}	Press to start playback of the VCR, CD player or DVD player.
⏸	Press to pause playback of the VCR, CD player or DVD player.
■	Press to stop playback of the VCR, CD player or DVD player.
TV CH +/-	Press TV CH +/- and TV (13) at the same time to select preset TV channels.
13 TV	Press TV and the button you want at the same time to activate the buttons with orange printing.

Name	Function
14 MENU	Press to display the menus of the VCR, DVD player, or satellite tuner on the TV screen. Then, use the control buttons to perform menu operations.
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, or satellite tuner is displayed on the TV screen.
16 Control buttons	After pressing DVD MENU (8), or MENU (14), press the control button ▲ , ▼ , ◀ or ▶ to select the settings. When you press DVD MENU or MENU, press the control button to enter the selection.
17 DISPLAY	Press to select information displayed on the TV screen of the VCR, satellite tuner, CD player or DVD player.
18 TOOLS	Press to display options applicable to the entire disc (e.g. disc protection), or multiple items on a list menu (e.g. erasing multiple titles).
19 -/--	Press -/-- and TV (13) 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. – return to continuous playback, etc. of the satellite tuner or DVD player.

Name	Function
20 Numeric buttons (number 5^{a)})	Press to – select track numbers of the CD player or DVD player. Press 0/10 to select track number 10. – select channel numbers of the VCR or satellite tuner. Press the numeric buttons and TV (13) at the same time to select the TV channels.
21 VOCAL SELECT	Press to select the vocal cut parameter when you sing a song (page 24).
22 BALANCE L/R	Press to adjust the front speakers balance level (page 21).
23 KARAOKE	Press to activate the karaoke function.
24 SCORE	Press to show the score after you sing a song (page 25). Note The scoring system will only activate when you press SCORE. If you press SCORE again, it will show the score marks.
25 TV/VIDEO	Press TV/VIDEO and TV (13) at the same time to select the input signal (TV input or video input).
26 SLEEP	Press to activate the Sleep Timer function and the duration which the amplifier turns off automatically.

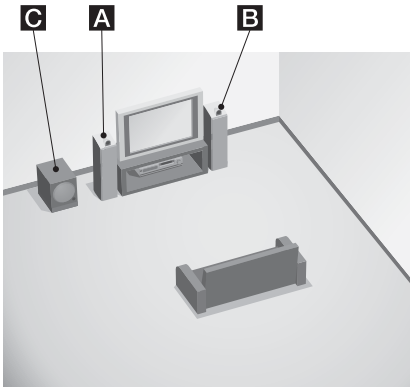
^{a)}The number 5, MASTER VOL +, TV VOL +, and  buttons have tactile dots. Use the tactile dots as references when operating the amplifier.

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 speakers

This amplifier allows you to use a 2.1 channel system (2 front speakers and one sub woofer).

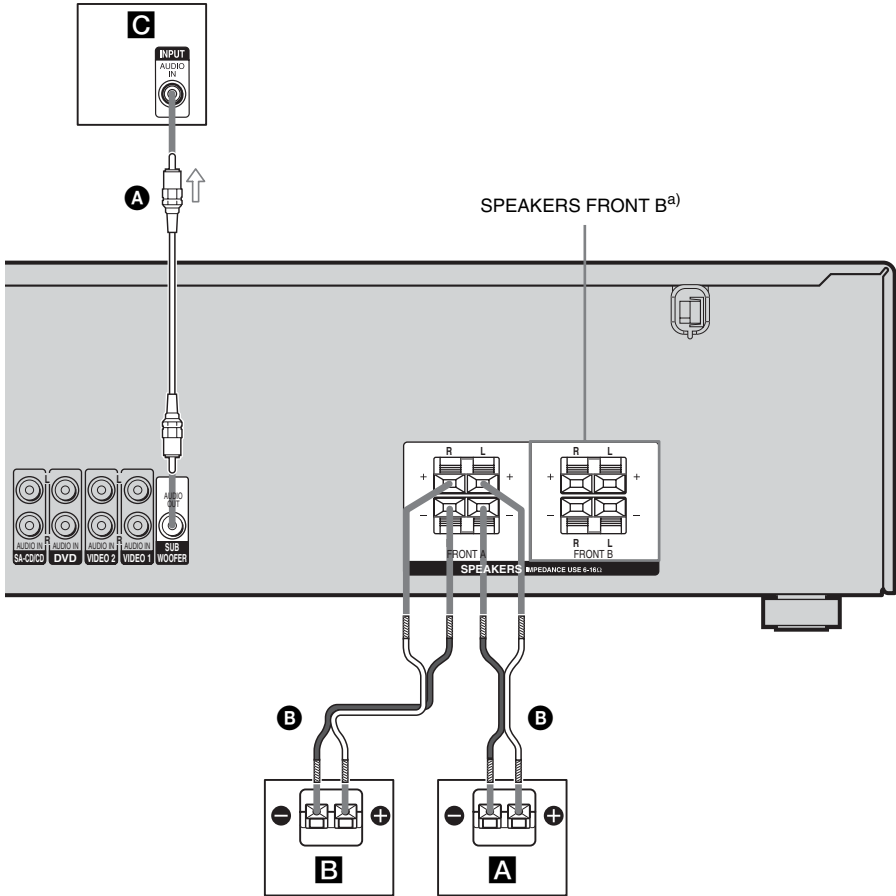


- A** Front speaker (Left)
- B** Front speaker (Right)
- C** Sub woofer

Tip

Since the sub woofer does not emit highly directional signals, you can place it wherever you want.

2: Connecting speakers



- A** Monaural audio cord (not supplied)
- B** Speaker cord (not supplied)

- A** Front speaker A (L)
- B** Front speaker A (R)
- C** Sub woofer^{b)}

^{a)} If you have an additional front speaker system, connect them to the SPEAKERS FRONT B terminal. You can select the front speakers you want to use with the SPEAKERS (OFF/A/B/A+B) button. For details, see “5: Selecting the speaker system” (page 17).

^{b)} When you connect a sub woofer with an auto standby function, turn off the function when watching movies. If the auto standby function is set to ON, it turns to standby mode automatically based on the level of the input signal to a sub woofer, then sound may not be output.

3: Connecting the audio/video components

How to hook up your components

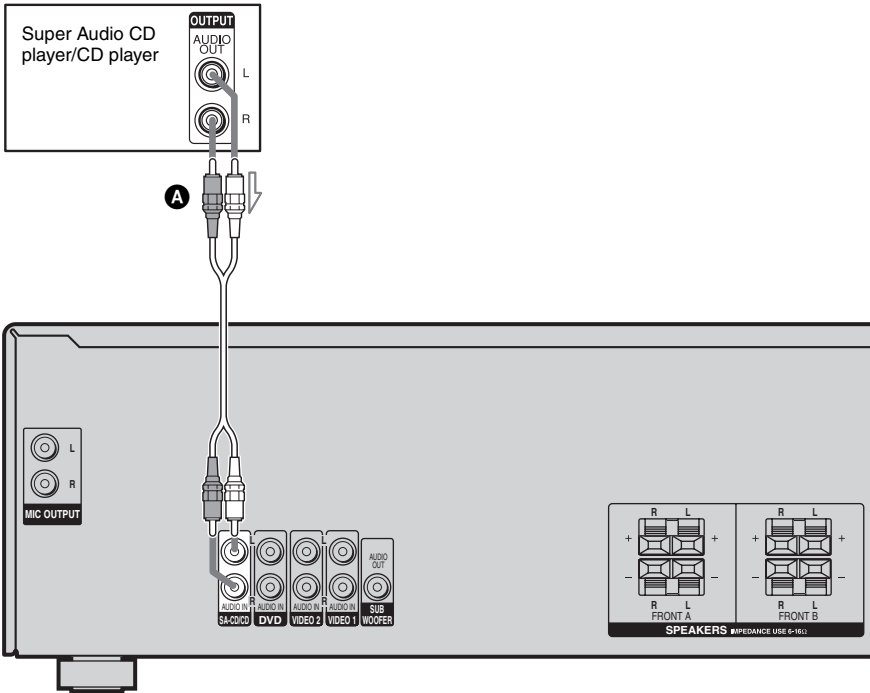
This section describes how to hook up your components to this amplifier. Before you begin, refer to “Component to be connected” below for the pages which describe how to connect the audio/video components.

Component to be connected

To connect	See
Audio components	page 14
<ul style="list-style-type: none">• Super Audio CD player/ CD player	
Video components	page 15
<ul style="list-style-type: none">• DVD player• Satellite tuner• VCR	

Connecting audio components

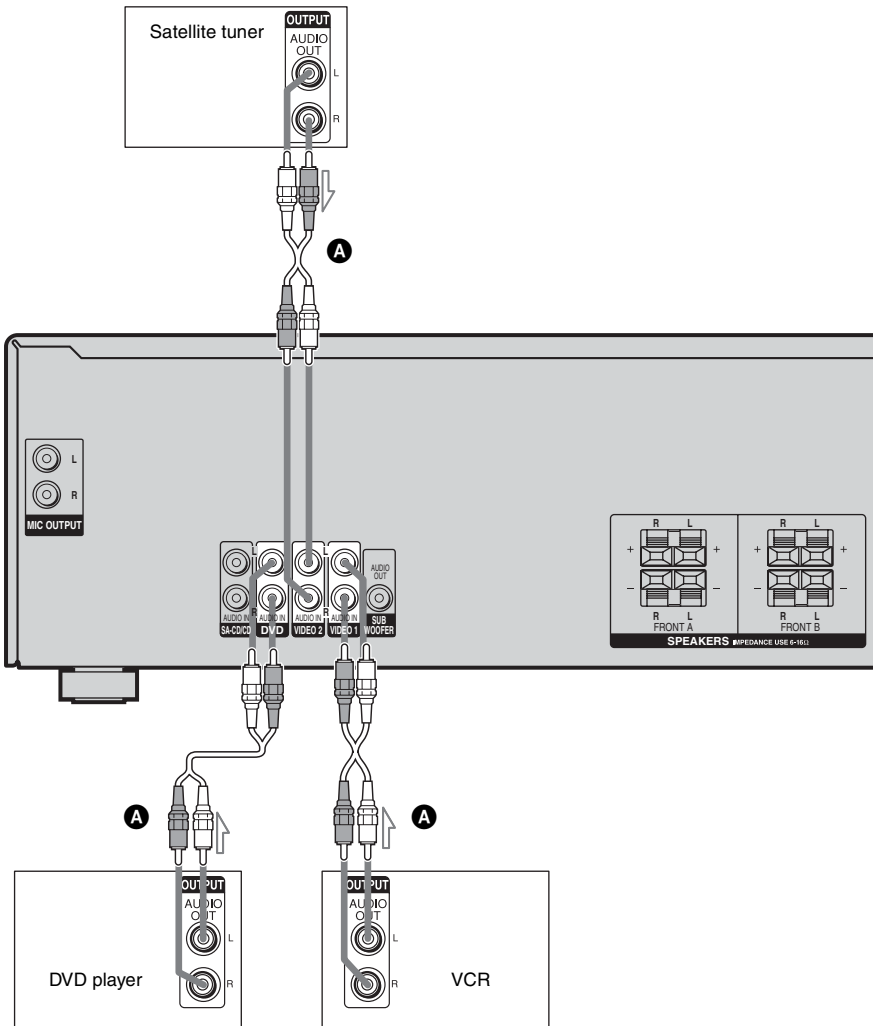
The following illustration shows how to connect audio components such as Super Audio CD player, CD player, etc.



A Audio cord (not supplied)

Connecting video components

The following illustration shows how to connect video components such as DVD player, satellite tuner or VCR.

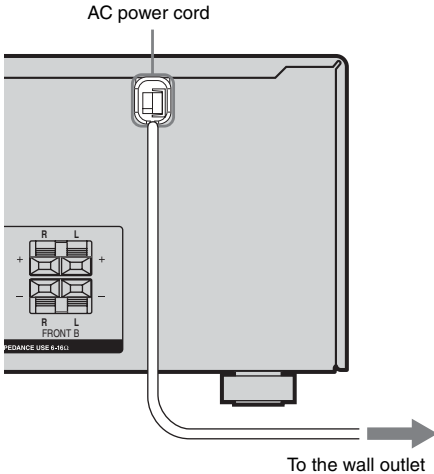


A Audio cord (not supplied)

4: Preparing the amplifier and the remote

Connecting the AC power cord

Connect the AC power cord to a wall outlet.

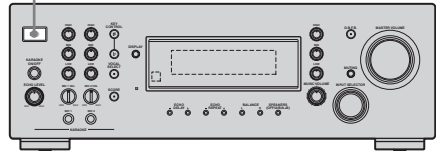


Performing initial setup operations

Before using the amplifier for the first time, initialize the amplifier 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 amplifier for this operation.

1,2



1 Press I/⏻ to turn off the amplifier.

2 Hold down I/⏻ for 5 seconds.

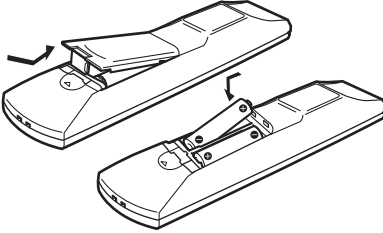
“CLEARING” appears on the display for a while. Then, follows by “CLEARED”.

The following items are reset to their factory settings.

- MASTER VOLUME is set to “VOL MIN”.
- Input is set to “DVD”.
- D.B.F.B. is set to “D.B.F.B. OFF”.
- Karaoke mode is set to “KARA OFF”.
- Balance L/R level is set to “BALANCE”.
- Sub woofer level is set to SW 0 dB.

Inserting batteries into the remote

Insert two R6 (size-AA) batteries in the RM-AAU011 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 alkaline 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.

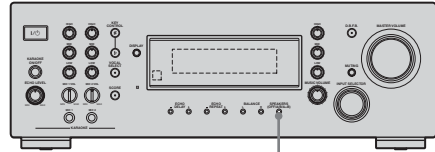
Tip

Under normal conditions, the batteries should last for about 3 months. When the remote no longer operates the amplifier, replace all the batteries with new ones.

5: Selecting the speaker system

You can select the front speakers you want to drive.

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



SPEAKERS (OFF/A/B/A+B)

Press SPEAKERS (OFF/A/B/A+B) repeatedly to select the front speaker system you want to drive.

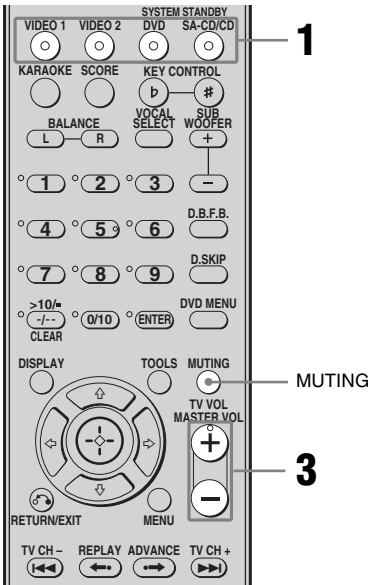
To select	Light up
The speakers connected to the SPEAKERS FRONT A terminals	SP A
The speakers connected to the SPEAKERS FRONT B terminals	SP B
The speakers connected to both the SPEAKERS FRONT A and B terminals (parallel connection)	SP A and SP B

To turn off the speaker output, press SPEAKERS (OFF/A/B/A+B) repeatedly until the “SP A” and “SP B” indicators on the display do not light up.

Note

Be sure to connect front speakers with a nominal impedance of 12 ohms or higher if you want to select both sets (A+B) of front speakers.

Selecting a component



1 Press the input button to select a component.

You can also use INPUT SELECTOR on the amplifier.

The selected input appears on the display.

Selected input [Display]	Components that can be played back
VIDEO 1 or VIDEO 2 [VIDEO 1 or VIDEO 2]	VCR, etc., connected to the VIDEO 1 or VIDEO 2 jack
DVD [DVD]	DVD player, etc., connected to DVD jack
SA-CD/CD [SA-CD/CD]	Super Audio CD/CD player, etc., connected to the SA-CD/CD jack

2 Turn on the component and start playback.

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

You can also use MASTER VOLUME on the amplifier.

To mute the sound

Press MUTING.

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

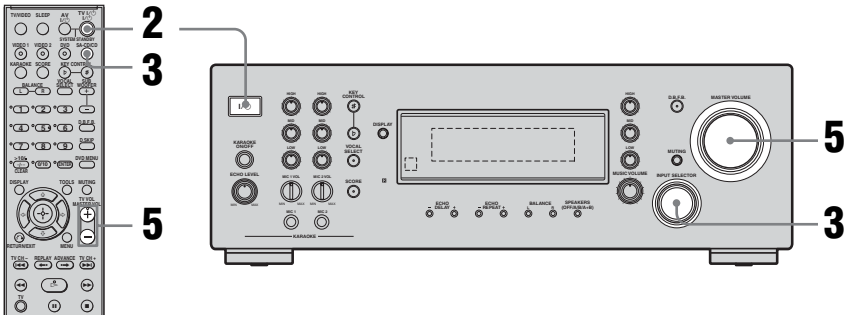
- Press MUTING again.
- Increase the volume.
- Turn off the amplifier.

To avoid damaging your speakers

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

Listening/Watching a component

Listening to a Super Audio CD/CD

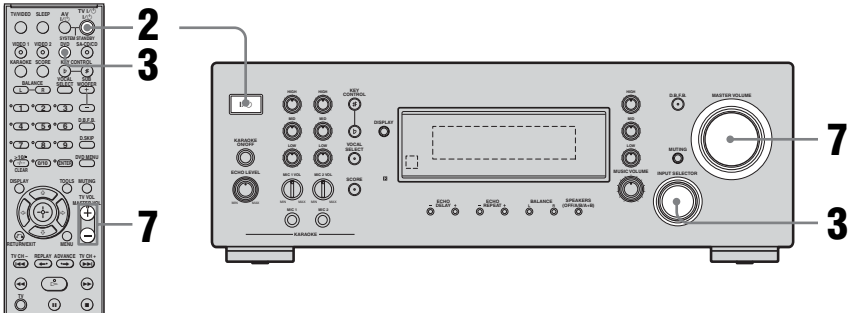


Notes

- 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.

- 1 Turn on the Super Audio CD player/CD player, then place the disc on the tray.**
- 2 Turn on the amplifier.**
- 3 Press SA-CD/CD.**
You can also use INPUT SELECTOR on the amplifier to select SA-CD/CD.
- 4 Playback 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 amplifier and Super Audio CD player/CD player.**

Watching a DVD



Note

Refer to the operating instructions supplied with the TV and DVD player.

1 Turn on the TV and DVD player.

2 Turn on the amplifier.

3 Press DVD.

You can also use INPUT SELECTOR on this amplifier to select DVD.

4 Switch the input of the TV so that an image of the DVD is displayed.

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

5 Set up the DVD player.

Refer to “Quick Setup Guide” supplied with the amplifier.

6 Playback the disc.

7 Adjust to a suitable volume.

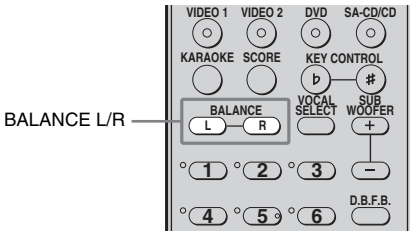
8 After you have finished watching the DVD, eject the disc and turn off the amplifier, TV and DVD player.

Amplifier Operations

Adjusting the speaker level

Front speaker balance level

You can adjust the balance between front left and right speakers.



Press BALANCE L/R repeatedly to select the balance level you want.

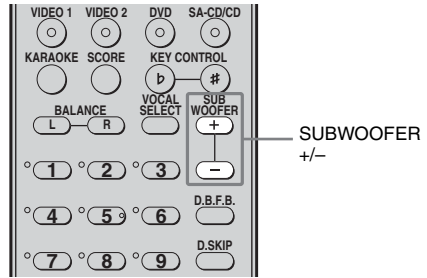
You can also use BALANCE L/R on the amplifier.

Initial setting: BALANCE

You can adjust in the range of BAL. L (+1 to +8), BALANCE and BAL. R (+1 to +8) in 17 steps.

Sub woofer level

You can adjust the sub woofer level to suit your preference.



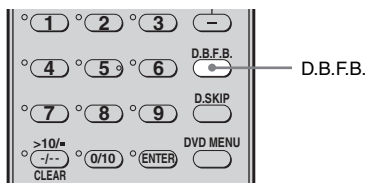
Press SUBWOOFER +/- repeatedly to select the sub woofer level you want.

Initial setting: SW 0 dB

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

Dynamic Bass Feedback (D.B.F.B.)

You can reinforce the bass and treble of the selected input.



Press D.B.F.B. to turn the Dynamic Bass Feedback on or off.

You can also use D.B.F.B. on the amplifier.

Initial setting: D.B.F.B. OFF

- D.B.F.B. ON
The front speakers' bass and treble level are reinforced. The played source will be boosting up bass and treble level by 6 dB.
- D.B.F.B. OFF
The front speakers' bass and treble level are not reinforced.

Note

This function will be ON although the input is switched unless it has been turned OFF. For example, if D.B.F.B. function is ON during DVD, then when you switch to VIDEO 1, the D.B.F.B. function is still ON unless you turn OFF the D.B.F.B. function.

Tip

When Dynamic Bass Feedback is activated, the D.B.F.B. indicator lights up.

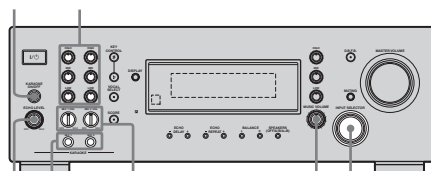
Karaoke Operations

Using the karaoke

You can enjoy karaoke by singing along with the selected input.

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

2 7



8 4 3,6 5 1

- 1 Turn INPUT SELECTOR to select the input you want.**
- 2 Press KARAOKE ON/OFF repeatedly to select "KARA ON".**

The KARAOKE ON/OFF indicator lights up and the karaoke function is activated.

- 3 Turn MIC 1 VOL or MIC 2 VOL to MIN to reduce the microphone volume level.**

- 4 Connect a microphone to MIC 1 or MIC 2 jack.**

Tip

You need to connect 2 microphones if you want to sing duet.

- 5 Start playing the source and turn MUSIC VOLUME to adjust the music volume level.**

For details, see "Adjusting the music" on page 23.

6 Turn MIC 1 VOL or MIC 2 VOL to adjust the microphone volume level.

7 Turn MIC 1 Tone knobs or MIC 2 Tone knobs to adjust the microphone tone level.

You can adjust microphone tone level in 3 bands – Low, Medium and High.

8 Turn ECHO LEVEL to adjust the microphone's echo level.

To cancel the echo effect, turn ECHO LEVEL to MIN.

Note

The same echo level is applied to both MIC 1 and MIC 2.

To cancel the karaoke function

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

- Press KARAOKE ON/OFF repeatedly to select “KARA OFF” (the indicator turns off).
- Select another input.
- Turn the power off.

Notes

- You can use the microphone only when the karaoke function is activated.
- If acoustic feedback (howling) occurs, move the microphone away from the speakers or change the direction of the microphone.

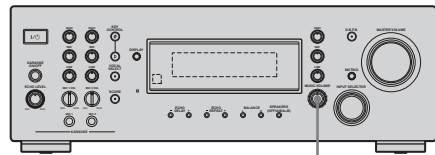
Adjusting the music

You can adjust the music volume level and music tone of the selected input.

■ Music volume control

Lets you adjust the music volume level relative to the microphone volume level. If the music volume level is higher compared to the microphone volume level, you can

- turn the MUSIC VOLUME counterclockwise to reduce the music volume level, or
- turn the MIC 1 VOL or MIC 2 VOL clockwise to increase the microphone volume level.

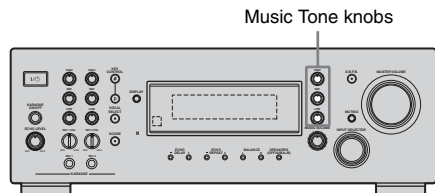


MUSIC VOLUME

Turn MUSIC VOLUME to adjust the music volume level to suit your preference.

Initial setting: center position

■ Music tone



Turn Music Tone knobs to adjust the music tone level.

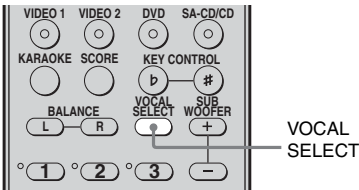
You can adjust the music tone level in 3 bands – Low, Medium and High.

Settings for the advance karaoke function

You can enjoy more advance karaoke function by adjusting the following karaoke settings.

Vocal select

Lets you select the vocal type you want when singing karaoke.



Press VOCAL SELECT repeatedly to select the vocal you want.

You can also use VOCAL SELECT on the amplifier.

Initial setting: VOCAL ST.

- VOCAL ST. (Vocal stereo)
You can hear the original stereo sound.
- VOCAL L (Vocal left)
Left channel sound is output from both front speakers when you play a multiplex disc.
- VOCAL R (Vocal right)
Right channel sound is output from both front speakers when you play a multiplex disc.
- V. OFF (Vocal off)
The vocal is cut off.
- V. ASSIST (Vocal assist)
You can hear the vocal when you stop singing using the microphone for few seconds during a song. However, the vocal will be automatically cut off when you resume singing.

Notes

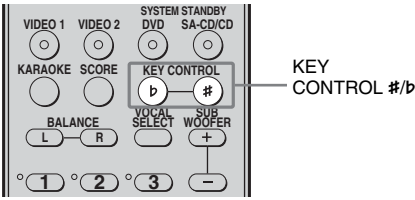
- This parameter is valid only when karaoke function is ON.
- Depending on the audio format of the disc, the vocal may not be cut off perfectly even though you have set the vocal select to “V. OFF”. In this case, select the audio format you want on the connected component. For details, please refer to the operating instructions supplied with the connected component.
- The vocal may not be cut off perfectly when
 - only a few instruments are playing.
 - a duet is being played back.
 - the source has strong echoes or chorus.
 - the vocal deviates from center.
 - the voice on the source is singing in high soprano or tenor.

Tips

- If you sing along with a multiplex disc, we recommend you to set the vocal select to “VOCAL L” or “VOCAL R”.
- The VOCAL SELECT indicator lights up when you select any setting except “VOCAL ST.”.

Key control

Lets you change the pitch of the music to suit your vocal range.



Press KEY CONTROL #/b to adjust the pitch of the music.

You can also use the KEY CONTROL #/b on the amplifier.

Initial setting: 0

You can adjust the key from -3 to +3 in 7 steps.

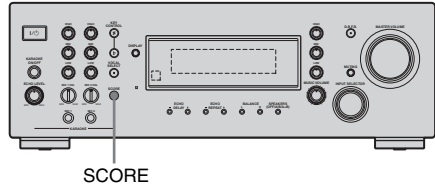
Notes

- This parameter is valid only when karaoke function in ON.
- The key control will reset to initial setting (0) when
 - no sound is output for more than 3 seconds.
 - you turn off the karaoke function.
 - you select another input.
 - you turn off the power.

Scoring system

Lets you know the score from singing a song. This score calculation is based on 2 criteria:

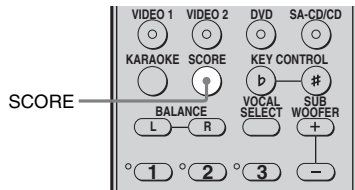
- Comparison between the pitch of the voice input through microphone to the original vocal.
- Voice level input through the microphone.



Press SCORE on the amplifier.

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

SCORE N ↔ SCORE Y



Press SCORE on the remote.

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

SCORE N → SCORE Y → Score Marks

Initial setting: SCORE N

Notes

- This parameter is valid only when karaoke function is ON.
- If the music volume level is too low, your score will appear in the display even though you have not finish singing a song. In this case, cancel the scoring system.
- Depending on the input source, the score calculation may be different from expectation.

Tips

- You can also view your score by pressing DISPLAY on the amplifier.
- If you sing along with a AUDIO CD or any 2 channel stereo sources, we recommend you to set the vocal select to “V. OFF” or “V. ASSIST”. Then, the scoring system will perform effectively.
- The SCORE indicator lights up when scoring system is ON.

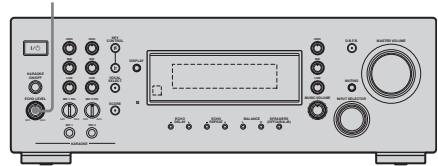
Adjusting echo effect

There are 3 types of echo effect you can adjust. Be sure to use button on the amplifier for this operation.

Echo level

Lets you adjust the echo level.

ECHO LEVEL



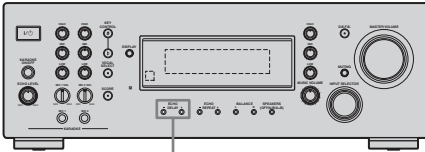
Turn ECHO LEVEL to adjust the echo level.

Note

This parameter is valid only when karaoke function is ON.

Digital echo delay timing

Lets you adjust the echo from the microphone that can be varied into different delay of times.



ECHO DELAY +/-

Press ECHO DELAY +/- to adjust the microphone's echo delay time you want.

Initial setting: DELAY 1

Each time you press the button, the display changes as follow:

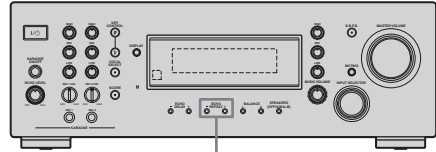
DELAY 1 → DELAY 2 → DELAY 3 →
DELAY 4 → DELAY 5

Note

This parameter is valid only when karaoke function is ON.

Echo repetition

Lets you adjust the echo from the microphone in different repeat of times.



ECHO REPEAT +/-

Press ECHO REPEAT +/- to adjust the microphone's echo repeat times you want.

Initial setting: REPEAT 1

Each time you press the button, the display changes as follow:

REPEAT 1 → REPEAT 2 → REPEAT 3 →
REPEAT 4

Note

This parameter is valid only when karaoke function is ON.

Other Operations

Changing the display

You can check the selected function, etc., by changing the information on the display.

Press DISPLAY repeatedly.

You can also use DISPLAY on the amplifier. Each time you press the button, the display changes as follow:

The karaoke function is OFF

Selected Function ↔ Current Volume Step

Note

When karaoke function in ON while scoring system is set to NO, the display is same as above.

The karaoke function is ON and scoring system is set to YES

Selected Function → Score Marks
↑
Current Volume Step ←

Using the sleep timer

You can set the amplifier 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 being used, “SLEEP” lights up on the display.

Tip

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

Using the optional karaoke scoring system

If you have a karaoke component with karaoke scoring system (for example, DVD-KARAOKE), you can view your karaoke score on your TV screen using the MIC OUT jack on this amplifier.

Connect the karaoke component to MIC OUT jack using an audio cord (not supplied).

For details on the use of the karaoke component, refer to operating instructions supplied with the karaoke component.

Note

You can use the MIC 1 and MIC 2 jacks simultaneously for this operation. The signal will be output from the MIC OUT jack to the connected karaoke component.

Using the Remote

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 recorder to the VIDEO 1 jacks on the amplifier, you can set the VIDEO 1 button on this remote to control the DVD recorder.

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

Example: Press VIDEO 1.

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

Example: Press 4.

Now you can use the VIDEO 1 button to control the DVD recorder.

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
MD deck	6
Tape deck B	7
DVR (Digital CATV terminal)	8
DSS (Digital Satellite Receiver)	9

^{a)} Sony VCRs are operated with a VTR 2 or VTR 3 setting which correspond 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.

To clear all remote button assignments

Press I/⏪, SLEEP and MASTER VOL – at the same time.

The remote is reset to its factory settings.

Additional Information

Precautions

On safety

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

On power sources

- Before operating the amplifier, 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 amplifier.
- 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 amplifier for a long time, be sure to disconnect the amplifier 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 amplifier heats up during operation, this is not a malfunction. If you continuously use this amplifier 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 amplifier in a location with adequate ventilation to prevent heat buildup and prolong the life of the amplifier.
- Do not place the amplifier 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 amplifier near equipment such as a television, VCR, or tape deck. (If the amplifier is being used in combination with a television, 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 amplifier 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 amplifier.

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 amplifier, please consult your nearest Sony dealer.

Troubleshooting

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

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 both the amplifier and all components are turned on.
- Check that MASTER VOLUME is not set to “VOL MIN”.
- Check that the SPEAKERS (OFF/A/B/A+B) is not set to “OFF”.
- Press MUTING to cancel the muting function.
- Check that you have selected the correct component with the input buttons.
- The protective device on the amplifier has been activated. Turn off the amplifier, 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 amplifier and the component.

There is no sound from one of the front speakers.

- Check that all the cords are fully inserted into the jacks on both the amplifier and the component. 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).

The left and right sounds are unbalanced or reversed.

- Check that the speakers and components are connected correctly and securely.
- Adjust the balance parameters (page 21).

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 m 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.

Remote control

The remote does not function.

- Point the remote at the remote sensor on the amplifier.
 - Remove any obstacles in the path between the remote and the amplifier.
 - 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 message

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 from the speakers. The amplifier 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 amplifier's memory may remedy the problem (page 16). However, note that all memorized settings will be reset to their factory settings and you will have to readjust all settings on the amplifier.

If the problem persist

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 amplifier's memory

To clear	See
All memorized settings	page 16

Specifications

Amplifier section

Models of area code SP, RU3, TH6

Stereo Power Output¹⁾

6 ohms 1 kHz, THD 1%

70 W + 70 W

Reference Power Output¹⁾²⁾

6 ohms 1 kHz, THD 10%

110 W/ch

Models of area code VN3

Stereo Power Output¹⁾

6 ohms 1 kHz, THD 1%

60 W + 60 W

Reference Power Output¹⁾²⁾

6 ohms 1 kHz, THD 10%

95 W/ch

¹⁾Measured under the following conditions:

Area code	Power requirements
SP, RU3, TH6	230 V AC, 50 Hz
VN3	220 V AC, 50 Hz

²⁾Reference power output for front speakers.

Depending on the source, there may be no sound output.

Frequency response

Analog 20 Hz – 50 kHz
+0.5/–2 dB (with tone bypassed)

Inputs

Analog Sensitivity: 800 mV/
50 kohms
S/N³⁾: 96 dB
(A, 800 mV⁴⁾)

Outputs (Analog)

SUB WOOFER Voltage: 2 V/1 kohm

Tone

Gain levels ±6 dB, stepless

³⁾INPUT SHORT (with tone bypassed).

⁴⁾Weighted network, input level.

General

Power requirements

Area code	Power requirements
VN3	220 – 230 V AC, 50/60 Hz
SP, RU3, TH6	230 – 240 V AC, 50/60 Hz

Power consumption

Area code	Power consumption
TH6, SP, VN3, RU3	165 W

Power consumption (during standby mode)

0.2 W

Dimensions (w/h/d) (Approx.)

430 × 145 × 296 mm
including projecting parts
and controls

Mass (Approx.)

6.7 kg

Supplied accessories

Remote commander RM-AAU011 (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.

Index

A

- Adjusting the music
 - music tone 23
 - music volume control 23

C

- CD player
 - connecting 14
 - playback 19
- Changing the display 28

D

- DVD player
 - connecting 15
 - playback 20
- Dynamic Bass Feedback (D.B.F.B.) 22

E

- Echo Time
 - digital echo delay timing 27
 - echo level 26
 - echo repetition 27
- Error message 32

I

- Initial setup 16

K

- Key control 25

M

- Muting 18

S

- Satellite tuner
 - connecting 15
- Scoring system 25
- Selecting
 - component 18
 - speaker system 17
- Sleep Timer 28
- Speaker
 - connecting 12
 - installing 11
 - level adjustment 21
- Super Audio CD player
 - connecting 14
 - playback 19
- Supplied accessories 33

U

- Using karaoke 22

V

- VCR
 - connecting 15
- Vocal select 24



* 2 8 9 4 1 2 3 1 2 * (2)