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## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

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

This equipment is intended for home entertainment purposes only. The warranty shall be invalidated if used in commercial environments such as restaurants or in vehicles or ships, etc., even within the warranty period.

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## Precautions

### On safety

- Do not disassemble the cabinet as this may result in an electrical shock. Refer servicing to qualified personnel only.
- 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 of the amplifier is identical with your local power supply. The operating voltage is indicated on the nameplate at the rear of the amplifier.
- The amplifier is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the amplifier 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.
- AC power cord must be changed only at the qualified service shop.

### On placement

- Place the amplifier in a location with adequate ventilation to prevent heat built-up 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.

### 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 benzene.

### On the prevention of howling

Do the following:

- keep the microphone away from the speakers during use.
- lower the master volume.
- lower the microphone volume or echo level.
- turn off the microphone when connecting it.
- set the master volume and microphone volume as low as possible before connecting the microphone.

Excessive howling might damage the speakers.

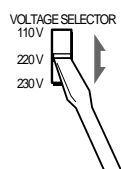
## Operating voltage and AC plug

### Operating voltage

Before operating the unit, make sure that the operating voltage of your unit is identical with that of your local power supply. If necessary, reset the voltage selector to the voltage corresponding to your local power supply. The voltage selector of this unit is originally set to 220 V AC.

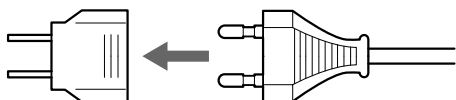
For	Set to
110 volts AC	110 V
220 volts AC	220 V
230 volts AC	230 V

To set the voltage selector, disconnect the AC power cord and set the selector to the appropriate position with a blade screwdriver.



### Using the AC Plug adaptor

The AC plug adaptor is attached to the AC plug of the power cord. If the AC plug adaptor does not fit into the wall outlet, remove the AC plug adaptor.



If you have any questions or problems concerning your unit, please contact your nearest Sony dealer.

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EN

## Welcome!

Thank you for purchasing the Sony Karaoke AV amplifier.

Before operating the unit, please read this manual thoroughly and retain it for future reference.

The TA-K800AV, a Karaoke AV amplifier, enable you to play karaoke in addition to conventional playback, by connecting your audio/video components.

Features include:

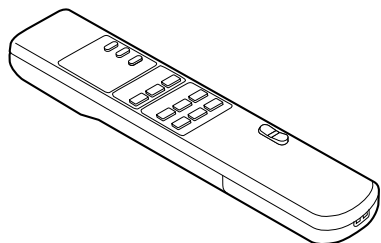
- Up to three microphones (not supplied) enables you to sing a song together with one or two other people.
- Digital Echo gives a high quality echo to your singing.
- Karaoke Pon enables you to play karaoke using non-karaoke discs or tapes. You can lower the volume of the singer's voice by pressing the KARAOKE PON button. (KARAOKE PON does not work with some music sources).
- You can select an acoustic atmosphere from among three types of surround modes (Karaoke, Music and Theater.)

## Step 1

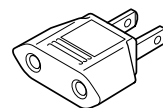
### Unpacking

Check that you have the following items:

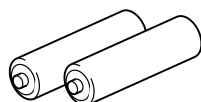
- Remote commander RMT-K800



- AC plug adaptor (attached to the AC plug of the power cord)

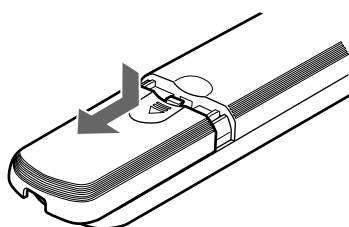


- Two R6 (size AA) batteries

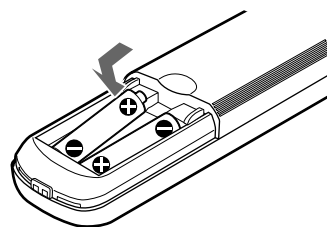


## Step 2

### Inserting batteries into the remote commander



- 1 Turn the commander over, and remove the cover.



- 2 Check the polarities and position two R6 (size AA) batteries correctly.

3 Close the cover.

#### Notes

- With normal use, the batteries should last for approximately six months.
- Use two size R6 (AA) batteries.
- If you use the batteries incorrectly, they may leak or explode. See notes below for correct usage.
  - Insert the batteries with correct polarity as shown above.
  - Do not use a new battery together with an old one.
  - Do not use different types of batteries together.
  - Do not recharge the batteries.
  - If you are not going to use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
  - If battery leakage should occur, wipe off the leakage from the battery compartment, then insert new batteries.
- Do not let direct sunlight or powerful artificial light fall directly on the remote sensor on the front panel of the amplifier. Such light interferes with the signals from the remote commander, causing the remote commander to fail to operate correctly.

# Step 3

## Connecting the amplifier

### Hookup overview

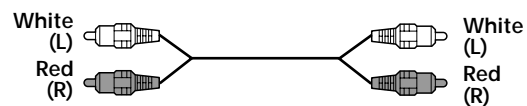
The amplifier allows you to connect and control the following audio/video components. Follow the hookup procedure indicated for each component that you want to connect.

#### Before you get started

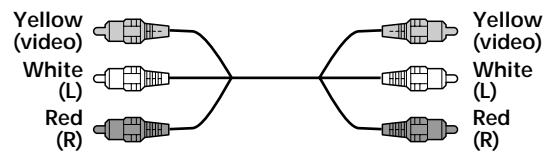
- Turn off the power to all components before making any connections.
- Do not connect the AC power cords of the various components until all connections are completed.
- Use the audio connecting cords supplied with each component for hooking up with the amplifier.  
Purchase and use optionally available cords as required.
- When connecting the cord, be sure to match the color-coded cord to the appropriate jacks on the components: Yellow (video) to Yellow, Red (right) to Red and White (left) to White.  
Be sure to make connections firmly to avoid hum and noise.

#### What cords will I need?

Audio connecting cord (not supplied) (6)



Audio and video connecting cord (not supplied) (3)



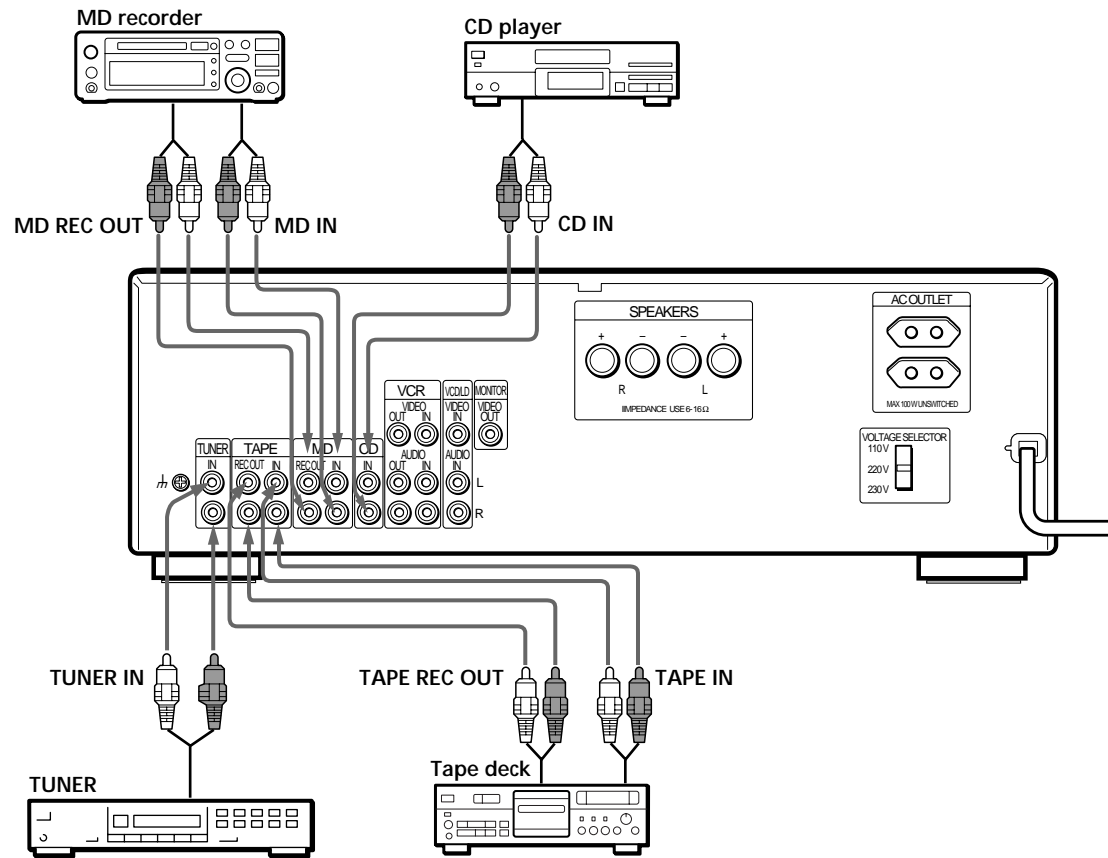
Video connecting cord (not supplied) (1)



## Step 3 Connecting the amplifier (continued)

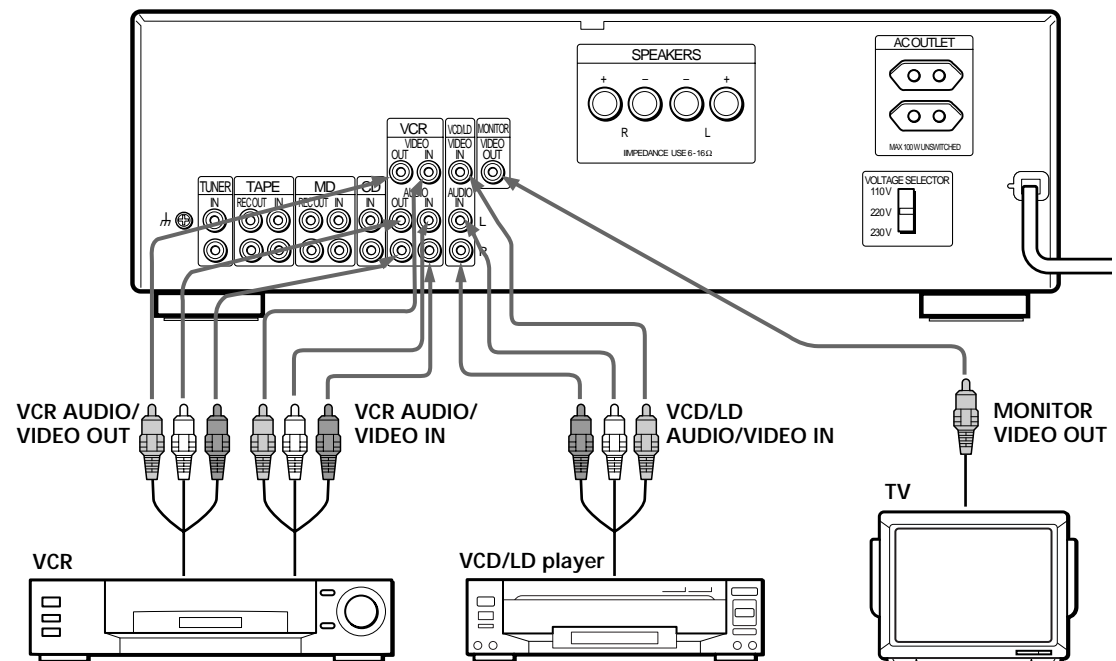
### Audio components hookups

This section describes how to connect your audio components to the amplifier.



### Video components hookups

This section describes how to connect your video components to the amplifier.



## Speaker system hookups

This section describes how to connect your speakers to the amplifier.

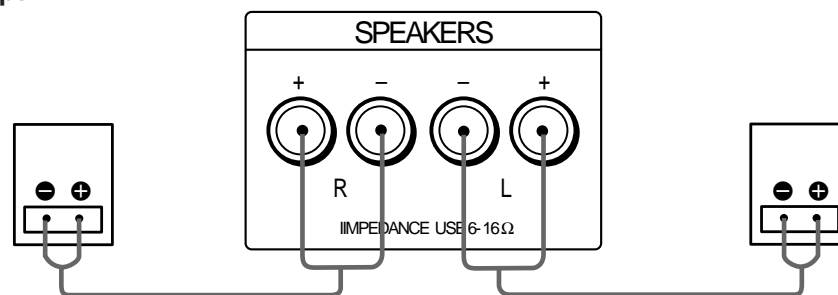
### What cords will I need?

Speaker cord (not supplied) (1 for each speaker)



Twist the stripped ends of the cord about 15mm.

### Hookups



Turn the speaker terminal knob counterclockwise and insert the stripped end of the speaker cord into the hole of the speaker terminal. Fully turn the speaker terminal knob clockwise and check that the speaker cord is inserted firmly.

Be sure to match the speaker cord to the appropriate terminal on the components: + to + and - to -. If the cords are reversed, the sound will be distorted and will lack bass.

### Note

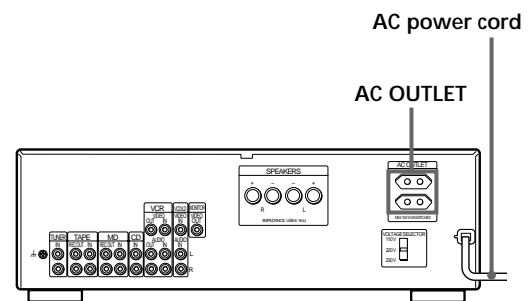
Use speakers with a nominal impedance of 6 to 16 ohms.

## AC power cord hookups

Connect the AC power cords of the amplifier and the various components to a wall outlet.

### AC OUTLET hookups

Since this amplifier has two UNSWITCHED AC OUTLETS, you can connect the AC power cords of your components to these outlets. They supply the power to each component whenever you press the power switch of the connected component. Make sure that the total power consumption of the connected components does not exceed 100 W.

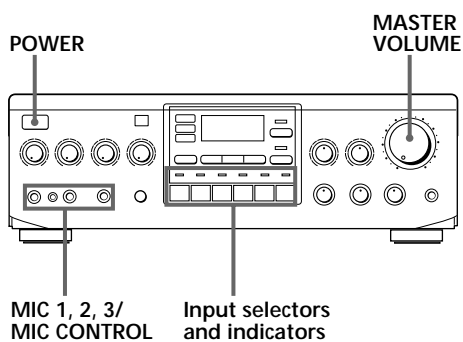


### Note

Separate the AC power cord, audio connecting cords and speaker cords. Noise or sound deterioration may occur when audio connecting cords are in contact with the AC power cord, or when the AC power cord or speaker cords are placed near the tuner's loop aerial or aerial wire.

## Basic Operations

### Before you start Karaoke play



#### Notes

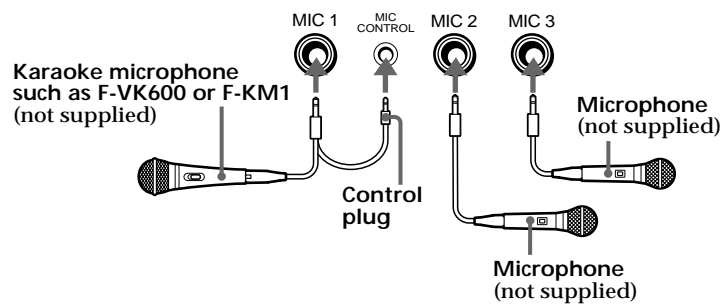
- To sing a duet, connect microphones to two of the three jacks (MIC 1, 2 and 3).
- If you use a karaoke microphone such as F-VK600 or F-KM1 (not supplied) with its control plug connected, you can control the backup key from the microphone while singing (you cannot use the Repeat function with this amplifier).
- Any noise heard when turning the power on is not a malfunction.
- The setting of the input selector is not erased even when the power is turned off.

This section shows you how to set microphones and how to play a program source.

#### Notes on the volume settings

Before you start, be sure to set the MASTER VOLUME control and MIC VOL controls (MIC 1, 2 and 3) to the MIN position.

#### 1 Connect the microphones.



You can also connect a microphone without a control plug to MIC 1.

#### 2 Press POWER to turn on the amplifier.

The indicator on MASTER VOLUME flashes and then lights up. In this state, the  $\frac{1}{2}$  position of the KEY CONTROL indicators and the previously selected input indicator light up.

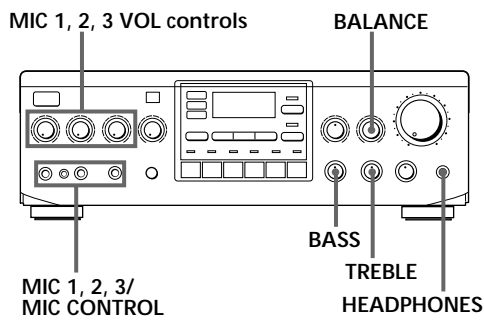
#### 3 Turn on the program source you want to listen to, and also turn on the TV and set the input selector on the TV to "Video" for watching the picture of video sources.

#### 4 Press the input selector (VCD/LD, VCR, CD, MD, TAPE or TUNER) of the program source to be played.

The indicator above the selector you pressed lights up.

To play a	Press
Video CD or Laser disc	VCD/LD
Video tape	VCR
CD	CD
MD	MD
Cassette tape	TAPE
Radio broadcast	TUNER

#### 5 Start playing the program source and adjust the volume with MASTER VOLUME.



**Note**

- Even when mixing input from several microphones, the amplifier centers the output.

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**6** Turn on the microphones connected to the MIC 1, 2 and 3 jacks.

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**7** Sing or speak into the microphones and adjust the microphone volume level with the MIC 1, 2 and 3 VOL controls.  
Now you are ready to play Karaoke.

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**Tone and balance adjustments of program sources**

To adjust	Turn
Bass	BASS
Treble	TREBLE
Balance	BALANCE

When you want to reset the adjustment, turn the control to the center position (click position).

**Playing a program source without Karaoke effects**

Perform procedures from 2 to 5 and make sure that KARAOKE PON or MPX is turned off. In addition, MUSIC VOL should be set to the center position to obtain the original sound.

If you want to add the surround effects to the program source, see “Surround mode settings” on page 11.

**To listen through the headphones**

Connect the headphones to HEADPHONES jack. The sound from speakers is cut off automatically.

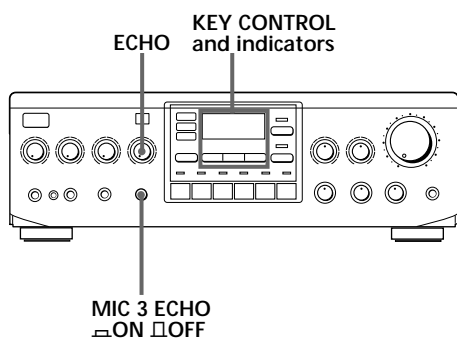
**Note on acoustic feedback (howling)**

If acoustic feedback (howling) occurs:

- Keep the microphone away from the speakers during use.
- Lower the overall volume.
- Lower the microphone volume or echo level.



## Playing Karaoke



### Notes

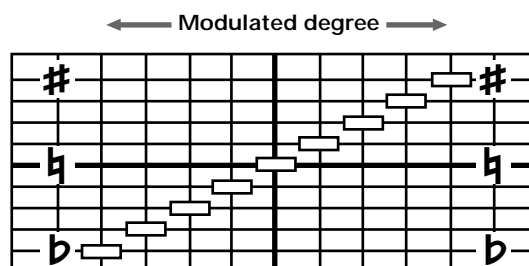
- When the power is turned off, the KEY CONTROL setting is returned to ♯ (original).
- If no sound is input for about 2 seconds, the KEY CONTROL setting is returned to ♯ (original).

## Changing the backup key

Press KEY CONTROL ♯ or ♭ repeatedly to find the backup key that suits your voice.

To	Press
Raise the key	♯
Lower the key	♭
Return to the original key	♯

The approximate setting is displayed on the KEY CONTROL indicators on the front panel as shown below. There are four for ♯ (upper) adjustment, four for ♭ (lower) adjustment, and one for ♯ (original)—9 indicators for 9 steps.



### If you use a karaoke microphone

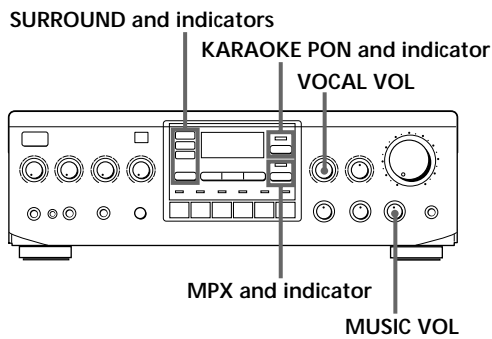
If you use a karaoke microphone such as F-VK600 or F-KM1 (not supplied) with its control plug connected, you can also adjust the backup key from the microphone just as the amplifier.

## Applying echo

Since the echo effect is always applied to MIC 1 and 2, you can change the echo level with the ECHO control.

For MIC 3, you can cut off the echo effect by setting the MIC 3 ECHO switch to OFF. To resume the echo effect, set the MIC 3 ECHO switch to ON.

To	Turn the control
increase the echo level	towards "MAX".
decrease the echo level	towards "MIN".



**Notes**

- The surround mode settings are not erased even when the power is turned off.
- Karaoke Pon is effective if you use a disc or tape recorded in stereo. If you use music sources recorded in monaural, the sound may not be heard.
- The turning on/off of KARAOKE PON and MPX are not erased even when the power is turned off.
- You cannot completely shut off the vocals by using KARAOKE PON. Even if the disc or tape is recorded in stereo, the volume of the singer's voice may not be lowered if the songs are folk songs or classical music which contain few instruments, songs on which choir or echo is dominant, or songs on which the voice deviates from the center.
- The adjustment of VOCAL VOL may be the opposite of that described in step 2, depending on music sources.

**Surround mode settings**

The amplifier has three surround settings. You can enjoy playing with the desired acoustic atmosphere.

Each time you press SURROUND, the surround mode changes to KARAOKE, to MUSIC, to THEATER and then returns to off.

Surround mode	Atmosphere
KARAOKE	Creates the effect of singing in a bar. Gives your song a rich carrying tone.
MUSIC	Suitable for listening to the music.
THEATER	Simulates the resonance of a movie theater. Emphasizes the bass and extends the dynamic mid range.

**To cancel the surround mode**

Press SURROUND so that the surround mode indicator (KARAOKE, MUSIC or THEATER) goes off.

**Adjusting the vocal level and accompaniment level**

You can use both karaoke source (multiplexed CD, tape, etc.) and non-karaoke source.

**1 Press MPX or KARAOKE PON according to the program source.**

When you play	Press
karaoke source	MPX
non-karaoke source	KARAOKE PON

The corresponding indicator (MPX or KARAOKE PON) lights up. When you press MPX or KARAOKE PON in KARAOKE SURROUND mode, the sound you hear will have a simulated stereo effect.

**2 Adjust the vocal level with VOCAL VOL.**

To	Turn the control
increase the vocal level	towards "MAX".
decrease the vocal level	towards "MIN".

**3 Adjust the accompaniment level with MUSIC VOL.**

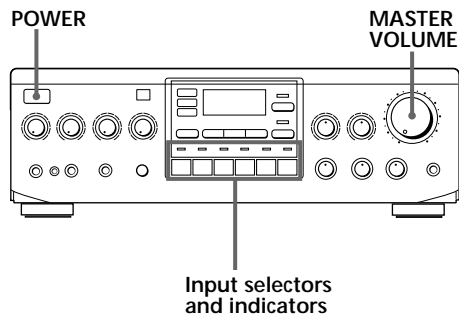
To	Turn the control
increase the accompaniment level	towards "MAX".
decrease the accompaniment level	towards "MIN".

**To cancel MPX or KARAOKE PON**

Press MPX or KARAOKE PON so that the corresponding indicator goes off.

## Additional Operations

### Recording



#### Tip

- If the amplifier is connected to recording components, such as a tape deck or MD recorder, you can record the same source on both components at the same time.

This section shows you how to record the program source and your karaoke play.

#### 1 Press POWER to turn on the amplifier.

The indicator on MASTER VOLUME flashes and then lights up. In this state, the **H** position of the KEY CONTROL indicators and the previously selected input selector light up.

#### 3 Turn on the program source you want to record.

#### 4 Press the input selector (VCD/LD, VCR, CD, MD, TAPE or TUNER) of the program source to be recorded.

The indicator above the selector you pressed lights up.

To record a	Press
Video CD or Laser disc	VCD/LD
Video tape	VCR
CD	CD
MD	MD
Cassette tape	TAPE
Radio broadcast	TUNER

#### 5 Prepare the recording component for recording, then start recording.

#### Recording your karaoke play

When you sing into the microphone, your voice mixed with the music accompaniment is output from all OUT jacks of the rear panel. Thus, you can record your karaoke play with the recording component.

The following effects are also output:

MIC (1, 2, 3) VOL, ECHO, MUSIC VOL, SURROUND and KEY CONTROL.

Your karaoke play using MPX and KARAOKE PON can also be recorded.

## Additional Information

# Troubleshooting

	Symptom	Remedy
<b>Power</b>	No power	<ul style="list-style-type: none"> <li>• Connect the AC power cord securely.</li> </ul>
<b>Sound</b>	No sound output.	<ul style="list-style-type: none"> <li>• Connect the audio connecting cords firmly.</li> <li>• Connect the amplifier and other components correctly.</li> <li>• Select the program source to be played by pressing the appropriate input selector.</li> <li>• Turn MASTER VOL clockwise to increase the volume.</li> <li>• Turn MUSIC VOL clockwise to increase the accompaniment volume.</li> </ul>
	No audio from one channel or unbalanced speaker output.	<ul style="list-style-type: none"> <li>• Turn BALANCE to adjust the balance. Setting to the center position (click position) reproduces the program sources as they are.</li> <li>• Check the speaker and input connections of silent channel.</li> </ul>
	Sudden loss of audio and the indicator on MASTER VOLUME flashes.	<ul style="list-style-type: none"> <li>• The speaker cords have been shorted. Make sure they are connected correctly.</li> <li>• Turn off the power, then turn on the power again.</li> </ul>
	Weak bass or treble.	<ul style="list-style-type: none"> <li>• Adjust BASS and TREBLE.</li> <li>• Change speaker positions or room conditions to eliminate obstructions in sound path.</li> </ul>
	Distorted sound.	<ul style="list-style-type: none"> <li>• Improperly selected signal.</li> <li>• Insufficient input capacity of speakers. Lower the volume.</li> </ul>
	Lack of bass or ambiguity in instrument positions.	<ul style="list-style-type: none"> <li>• Speaker cord and terminal polarity are reversed. Reconnect the cords with correct polarity.</li> </ul>
	Hum or noise.	<ul style="list-style-type: none"> <li>• Connect the audio connecting cords firmly.</li> <li>• The amplifier is picking up interference from a TV set. Move the amplifier away from the TV set or turn the TV set off.</li> </ul>
	No sound from microphones.	<ul style="list-style-type: none"> <li>• Microphones are turned off.</li> <li>• Turn the MIC 1, 2 and 3 VOL controls clockwise.</li> </ul>
<b>Picture</b>	No picture but play starts.	<ul style="list-style-type: none"> <li>• TV is turned off.</li> <li>• The video component connections are incorrect.</li> <li>• Input selection on TV or the amplifier is incorrect.</li> </ul>
<b>Recording</b>	Cannot record.	<ul style="list-style-type: none"> <li>• Select the program source to be recorded by pressing the appropriate input selector.</li> </ul>
<b>Others</b>	Remote Commander does not operate.	<ul style="list-style-type: none"> <li>• Point the remote commander at the remote sensor on the amplifier.</li> <li>• Remove any obstacles between the remote commander and the sensor.</li> <li>• Insert the batteries correctly.</li> <li>• Replace both the batteries with new ones if they are weak.</li> </ul>

# Specifications

## System

**Maximum output power**  
125 W + 125 W/6 ohms (EIAJ)\*

**Total harmonic distortion**  
0.08% (at 8 ohms, 80 W output)

**Speaker impedance**  
6 to 16 ohms

**Frequency response**  
TUNER, TAPE, MD, CD, VCR,  
VCD/LD: 10 Hz to 40 kHz  $\pm 3$  dB

**S/N**  
TUNER, TAPE, MD, CD, VCR,  
VCD/LD: 82 dB

\* Measured according to EIAJ (Electric Industries Association of Japan) standards.

## Inputs

**Input sensitivity and impedance**  
TUNER, TAPE, MD, CD, VCR,  
VCD/LD: 150 mV, 10 kilohms

**MIC 1/2/3 jacks**  
Standard jacks  
1.4 mV  
(Impedance below 1 kilohm)

## Outputs

**Output level/ impedance**  
REC OUT (TAPE, MD): 150 mV,  
1 kilohm  
HEADPHONES: 20 mW (at 8 ohms)

## General

**MIC CONTROL jack**  
Mini jack (for karaoke microphone)

**Key control**  
Variable range  $\pm 2$  whole steps  
Variable step Per 1/2 whole step

**Power requirements**  
110/220/230 V AC, adjustable,  
50/60 Hz

**Power consumption**  
250 W

**Dimensions**  
Approx. 430 × 145 × 404 mm  
(w/h/d)  
including projecting parts and controls

**Mass**  
Approx. 10.5 kg

## Supplied accessories

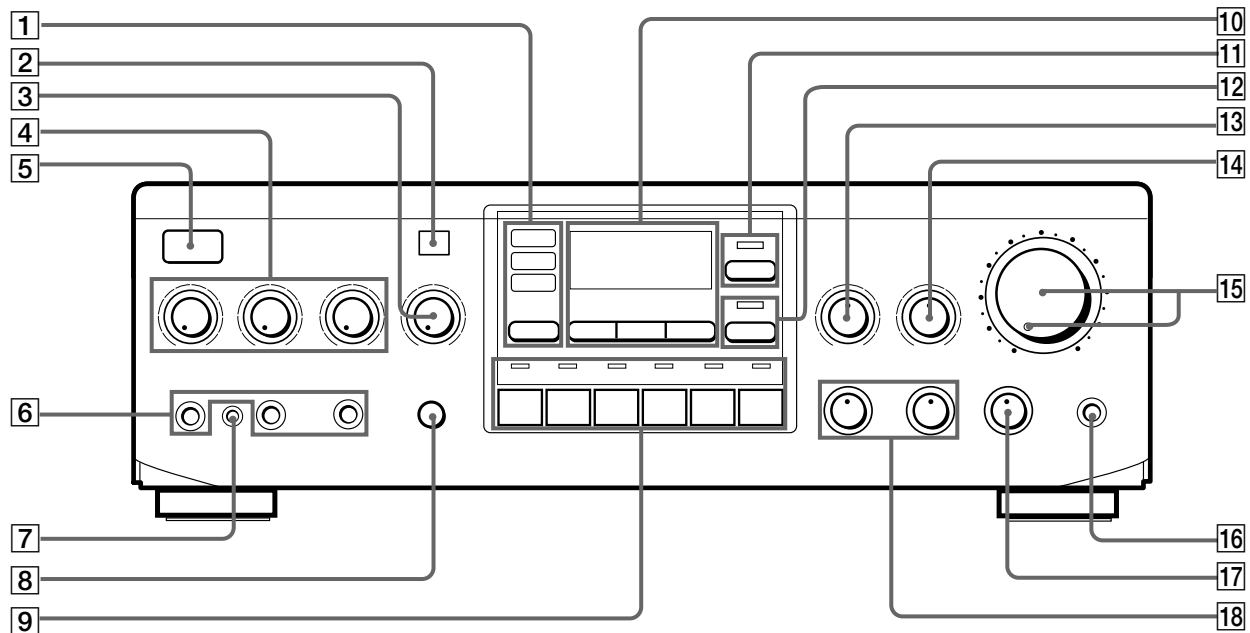
Remote Commander RMT-K800 (1)  
R6 (size AA) batteries (2)  
AC plug adaptor (1)

Design and specifications are subject to change without notice.

## Index to parts and controls

See the pages indicated in ( ) for details.

### Front

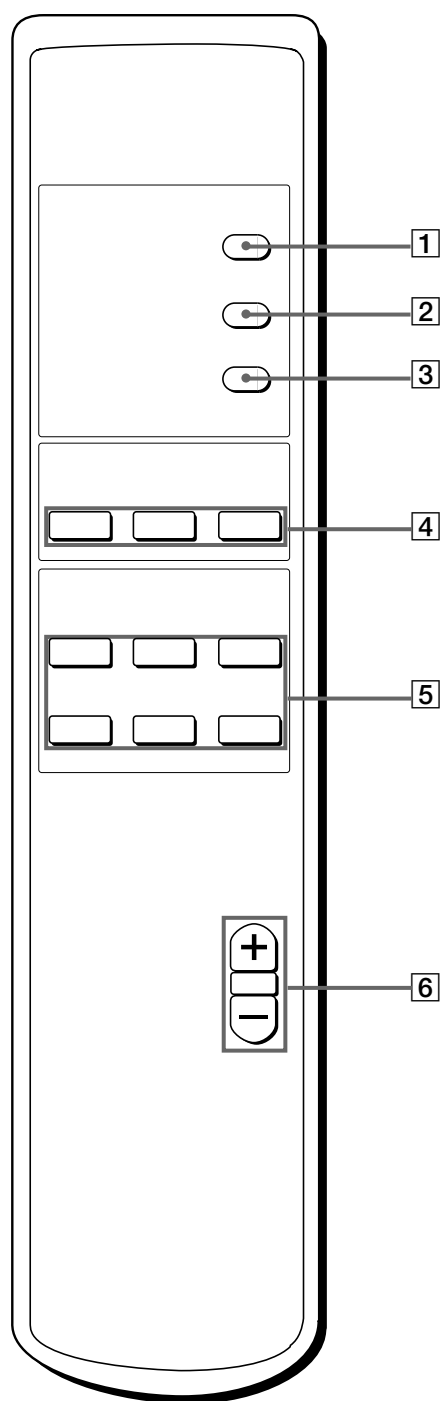


- |   |   |
|---|---|
| <b>1</b> SURROUND button and indicators (11)                  | <b>12</b> MPX button and indicator (11)               |
| <b>2</b> Remote sensor (4)                                    | <b>13</b> VOCAL VOL control (11)                      |
| <b>3</b> ECHO control (10)                                    | <b>14</b> BALANCE control (9)                         |
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| <b>5</b> POWER switch (8, 12)                                 | <b>16</b> HEADPHONES jack (9)                         |
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| <b>7</b> MIC CONTROL jack (8)                                 | <b>18</b> BASS/TREBLE controls (9)                    |
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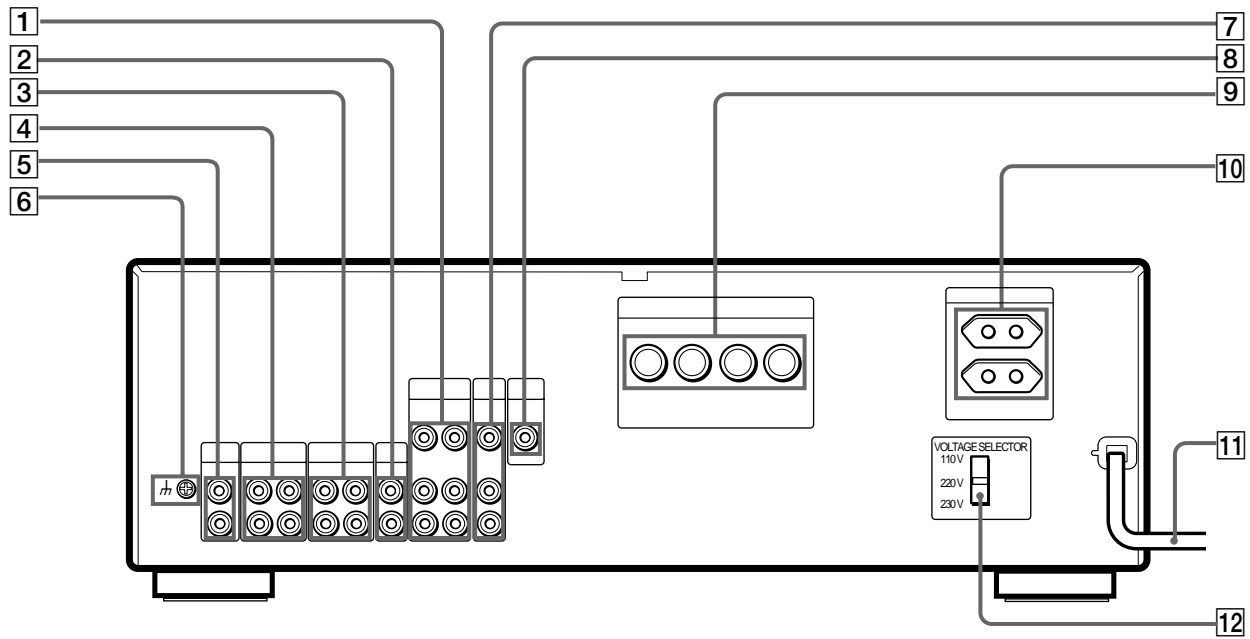
See the pages indicated in ( ) for details.

### Remote commander



- 1 SURROUND button (11)
- 2 KARAOKE PON button (11)
- 3 MPX button (11)
- 4 KEY CONTROL buttons (10)
- 5 INPUT SELECTOR buttons (8, 12)
- 6 MASTER VOLUME +/- buttons (8, 12)

**Rear**



- 1 VCR VIDEO IN/OUT and AUDIO IN/OUT (6)
- 2 CD IN (6)
- 3 MD REC OUT/IN (6)
- 4 TAPE REC OUT/IN (6)
- 5 TUNER IN (6)
- 6  $\perp$  (earth)

- 7 VCD/LD VIDEO IN/AUDIO IN (6)
- 8 MONITOR VIDEO OUT (6)
- 9 SPEAKERS (7)
- 10 AC OUTLET (7)
- 11 AC power cord (7)
- 12 VOLTAGE SELECTOR (3)



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