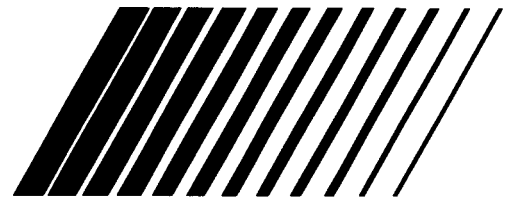
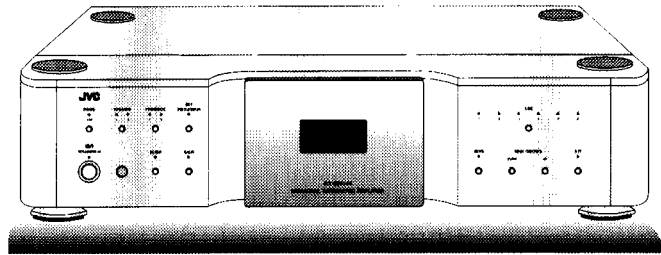


# JVC



MONAURAL INTEGRATED AMPLIFIER

# AX-M9000



## INSTRUCTIONS

**For Customer Use:**

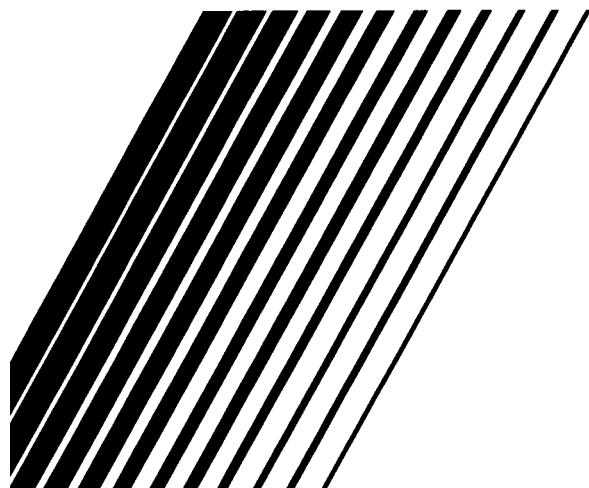
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

LVT0652-001A

[E]




# Warnings, Cautions and Others

## Warnung, Achtung und sonstige Hinweise


### Mises en garde, précautions et indications diverses

### Waarschuwingen, voorzorgen en andere mededelingen


#### Caution — STANDBY/ON switch!

Disconnect the mains plug to shut the power off completely. The STANDBY/ON  switch in any position does not disconnect the mains line. The power can be remote controlled.


#### Achtung — STANDBY/ON -Schalter!

Den Netzstecker aus der Steckdose ziehen, um die Stromversorgung vollkommen zu unterbrechen. Der Schalter STANDBY/ON  unterbricht in keiner Stellung die Stromversorgung vollkommen. Die Stromversorgung kann mit der Fernbedienung ein- und ausgeschaltet werden.

#### Attention — Commutateur STANDBY/ON !

Déconnecter la fiche de secteur pour couper complètement le courant. Le commutateur STANDBY/ON  ne coupe jamais complètement la ligne de secteur, quelle que soit sa position. Le courant peut être télécommandé.

#### Voorzichtig — STANDBY/ON schakelaar!

Om de stroomtoevoer geheel uit te schakelen, trekt u de stekker uit het stopcontact. Anders zal er altijd een geringe hoeveelheid stroom naar het apparaat lopen, ongeacht de stand van de STANDBY/ON  schakelaar. U kunt het apparaat ook met de afstandsbediening aan- en uitschakelen.

---

#### CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

#### ACHTUNG

Zur Verhinderung von elektrischen Schlägen, Brandgefahr, usw.:

1. Keine Schrauben lösen oder Abdeckungen enternen und nicht das Gehäuse öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

#### ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:

1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

#### VOORZICHTIG

Ter vermindering van gevaar voor brand, elektrische schokken, enz.:

1. Verwijder geen schroeven, panelen of de behuizing.
2. Stel dit toestel niet bloot aan regen of vocht.

---

#### CAUTION

- Do not block the ventilation openings or holes.  
(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not use this apparatus in a bathroom or places with water. Also do not place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups, etc.) on top of this apparatus.

#### ACHTUNG

- Blockieren Sie keine Belüftungsschlitze oder -bohrungen.  
(Wenn die Belüftungsöffnungen oder -löcher durch eine Zeitung oder ein Tuch etc. blockiert werden, kann die entstehende Hitze nicht abgeführt werden.)
- Stellen Sie keine offenen Flammen, beispielsweise angezündete Kerzen, auf das Gerät.
- Wenn Sie Batterien entsorgen, denken Sie an den Umweltschutz. Batterien müssen entsprechend den geltenden örtlichen Vorschriften oder Gesetzen entsorgt werden.
- Setzen Sie die Anlage nicht in einem Badezimmer oder an Orten ein, an denen Wasser verwendet wird. Stellen Sie auch keine Behälter, die mit Wasser oder anderen Flüssigkeiten gefüllt sind (beispielsweise Kosmetik- oder Medikamentenbehälter, Blumenvasen, Topfpflanzen, Tassen etc) auf diese Anlage.

#### ATTENTION

- Ne bloquez pas les orifices ou les trous de ventilation.  
(Si les orifices ou les trous de ventilation sont bloqués par un journal un tissu, etc., la chaleur peut ne pas être évacuée correctement de l'appareil.)
- Ne placez aucune source de flamme nue, telle qu'une bougie, sur l'appareil.
- Lors de la mise au rebut des piles, veuillez prendre en considération les problèmes de l'environnement et suivre strictement les règles et les lois locales sur la mise au rebut des piles.
- N'utilisez pas cet appareil dans une salle de bain ou un autre endroit avec de l'eau. Ne placez aucun récipient contenant de l'eau (tel que des cosmétiques ou des médicaments, un vase de fleurs, un pot de fleurs, une tasse, etc.) sur cet appareil.

#### VOORZICHTIG

- Zorg dat u de ventilatieopeningen en -gaten niet afsluit.  
(Als de ventilatieopeningen en -gaten worden afgesloten door bijvoorbeeld papier of een doek, kan er hitte in het apparaat worden opgebouwd.)
- Zet geen bronnen met open vuur, zoals brandende kaarsen, op het apparaat.
- Wees milieubewust en gooi lege batterijen niet bij het huishoudelijk afval. Lege batterijen dient u in te leveren met het KCA of bij een innamepunt voor batterijen.
- Gebruik dit apparaat niet in een badkamer of in andere natte ruimten.  
Zet ook geen voorwerpen op het apparaat die zijn gevuld met water of andere vloeistoffen (zoals cosmetica, medicijnen, bloemenvazen, bloempotten, kopjes enz.).

**Caution: Proper Ventilation**

To avoid risk of electric shock and fire and to protect from damage.

Locate the apparatus as follows:

- Front: No obstructions open spacing.
- Sides: No obstructions in 10 cm from the sides.
- Top: No obstructions in 10 cm from the top.
- Back: No obstructions in 15 cm from the back
- Bottom: No obstructions, place on the level surface.

In addition, maintain the best possible air circulation as illustrated.

**Achtung: Angemessene Ventilation**

Stellen Sie das Gerät zur Verhütung von elektrischem Schlag und Feuer und zum Schutz gegen Beschädigung wie folgt auf:

- Vorderseite: Offener Platz ohne Hindernisse.
  - Seiten: Keine Hindernisse innerhalb 10 cm von den Seiten.
  - Oberseite: Keine Hindernisse innerhalb 10 cm von der Oberseite.
  - Rückseite: Keine Hindernisse innerhalb 15 cm von der Rückseite.
  - Unterseite: Keine Hindernisse. Auf eine ebene Oberfläche stellen.
- Zusätzlich die bestmögliche Luftzirkulation wie gezeigt erhalten.

**Attention: Ventilation Correcte**

Pour éviter les chocs électriques, l'incendie et tout autre dégât.

Disposer l'appareil en tenant compte des impératifs suivants

- Avant: Rien ne doit gêner le dégagement
- Flancs: Laisser 10 cm de dégagement latéral
- Dessus: Laisser 10 cm de dégagement supérieur
- Arrière: Laisser 15 cm de dégagement arrière
- Dessous: Rien ne doit obstruer par dessous; poser l'appareil sur une surface plate.

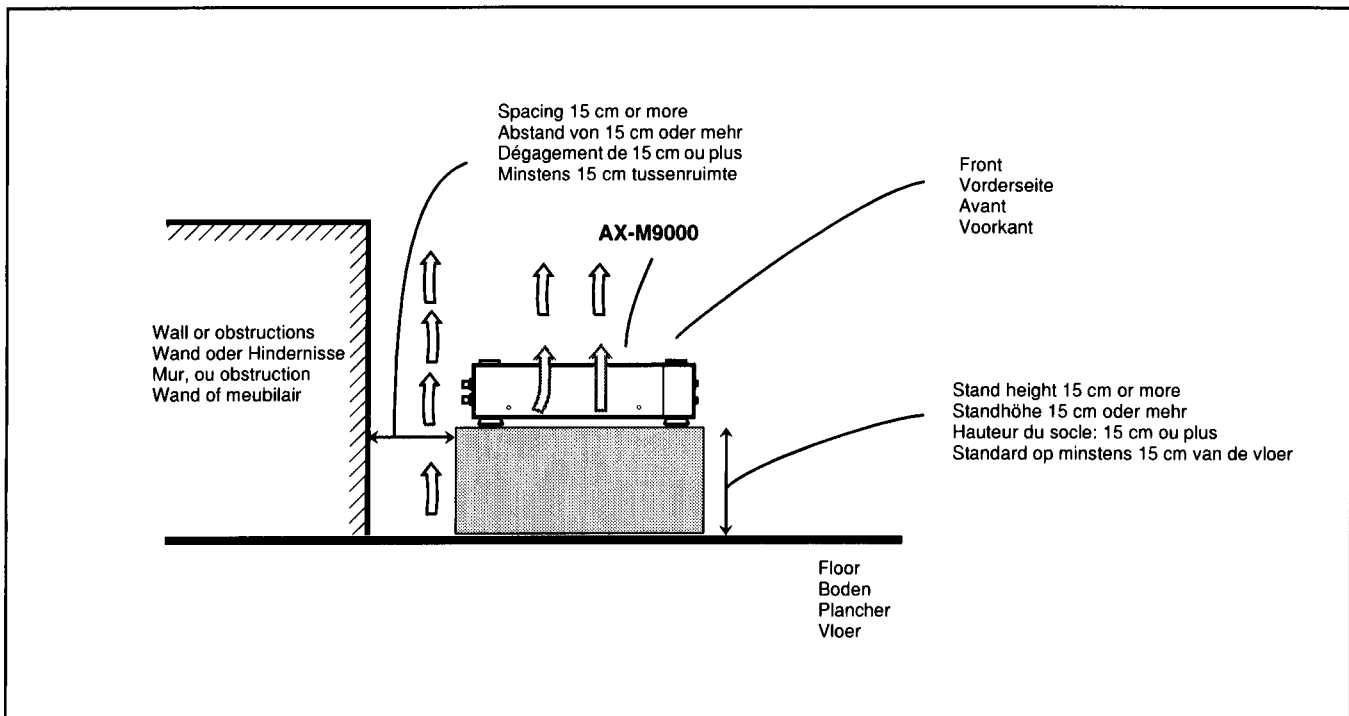
Veiller également à ce que l'air circule le mieux possible comme illustré.

**Voorzichtig: Zorg Voor Goede Ventilatie**

Om gevaar voor brand of een elektrische schok te voorkomen, dient u bij opstelling van het apparaat op de volgende punten te letten:

- Voorkant: Voldoende ruimte vrij houden.
- Zijkanten: Minstens 10 cm aan weerszijden vrij houden.
- Bovenkant: Niets bovenop plaatsen; 10 cm speling geven.
- Achterkant: Minstens 15 cm ruimte achteraan vrij houden.
- Onderkant: Opstellen op een egaal horizontaal oppervlak.

Bovendien moet er rondom voldoende luchtdoorstroming zijn, zoals in de afbeelding aangegeven.



# Safety and Installation Precautions

The AX-M9000 is a heavy-class amplifier weighing 18.4 kilograms. Be careful not to have your fingers caught between the unit and a surrounding object when installing the unit.

## Independent Column Construction

The AX-M9000 employs the independent column construction (with which the integrated columns function also as the feet) so **up to three units can be stacked on top of each other in installation**. When stacking them, make sure that the place of installation is strong and safe enough.

**To ensure safety and high quality, avoid the following types of installation.**

- Do not stack four or more AX-M9000 units.
- Do not stack other component than the AX-M9000 above or below it.

# Contents

<b>Warnings, Cautions and Others</b> .....	<b>2</b>
<b>Safety and Installation Precautions</b> .....	<b>4</b>
<b>Contents</b> .....	<b>5</b>
<b>Features</b> .....	<b>6</b>
<b>Connections</b> .....	<b>7</b>
Using RCA pin-cords to make connections to other AV components .....	7
Using balanced cables to make connection to another component .....	8
Using a communication cable to make connections from this unit to another AX-M9000 unit .....	9
Making connections to speakers .....	10
Making power connections .....	11
<b>Parts and Their Functions</b> .....	<b>12</b>
Front Panel .....	12
Rear Panel .....	13
<b>Basic Operations</b> .....	<b>14</b>
Basic control (Using controls on the amplifier) .....	14
Basic control (Using controls on the remote control) .....	15
<b>Controlling a multi channel system</b> .....	<b>16</b>
Controlling a multi channel system (Using controls on the amplifier) .....	16
Controlling a multi channel system (Using controls on the remote control) .....	17
<b>Using the sleep function</b> .....	<b>18</b>
<b>Block Diagram</b> .....	<b>19</b>
<b>Troubleshooting</b> .....	<b>20</b>
<b>Specifications</b> .....	<b>21</b>
<b>Dimensions</b> .....	<b>22</b>
<b>Memo</b> .....	<b>23</b>

# Features

## **In creating a monaural integrated amp, JVC presents the next generation of the separate amp**

1. The "Monaural Integrated Amp" features single channel signal handling within a single chassis.
2. By connecting multiple units in a series, capable of facilitating anywhere from 2-channel stereo up to the next generation multi channel digital audio and home theater requirements.
3. Mutual interference between channels is eliminated by complete separation of channels bringing about new levels of audio quality.

## **Advanced Gm Volume**

This features the use of high-accuracy DAC type volume control ICs in a fully balanced operation. We have developed an application to be combined with our proprietary Gm volume circuit (variable gain amplifier), achieving improvement in S/N of max. 30 dB in actual use.

## **Independent direct power supply**

Independent rectification circuitry provides a power supply directly to each of the output transistors in parallel connection. The electromagnetic loop of the power supply line is brought to a minimum, performing equally as well in single output as in multi output in its delivery of high quality audio sources.

## **Current mode source selector**

By converting the input signals into currents at a close position to the input jacks and transmitting the current signals in the current mode, crosstalks due to static coupling between signal lines are reduced greatly.

## **Advance Super-A output circuitry**

Integrating highly efficient variable bias type Class A output circuitry (Super-A) independently designed by JVC has improved the drive circuit's non-linear load, and has achieved low strain and high efficiency output. Adopting a new type of cooling system, a 300 W/4 Ohm high output, compact amplifier has been realized. High-bit sources in the high D-range can be readily processed.

## **Gm Driver controlled voltage amplification circuitry**

A phase feature that covers a wider bandwidth than before has been realized. Sources with high sampling rates are readily processed.

## **Microcomputer sleep function**

To avoid the negative influence on the sound quality that may be caused by microcomputer operations, the microcomputer circuitry is designed to cease operation (sleep) except during active control by a controller unit or at other times when operation is necessary.

## **Independent column**

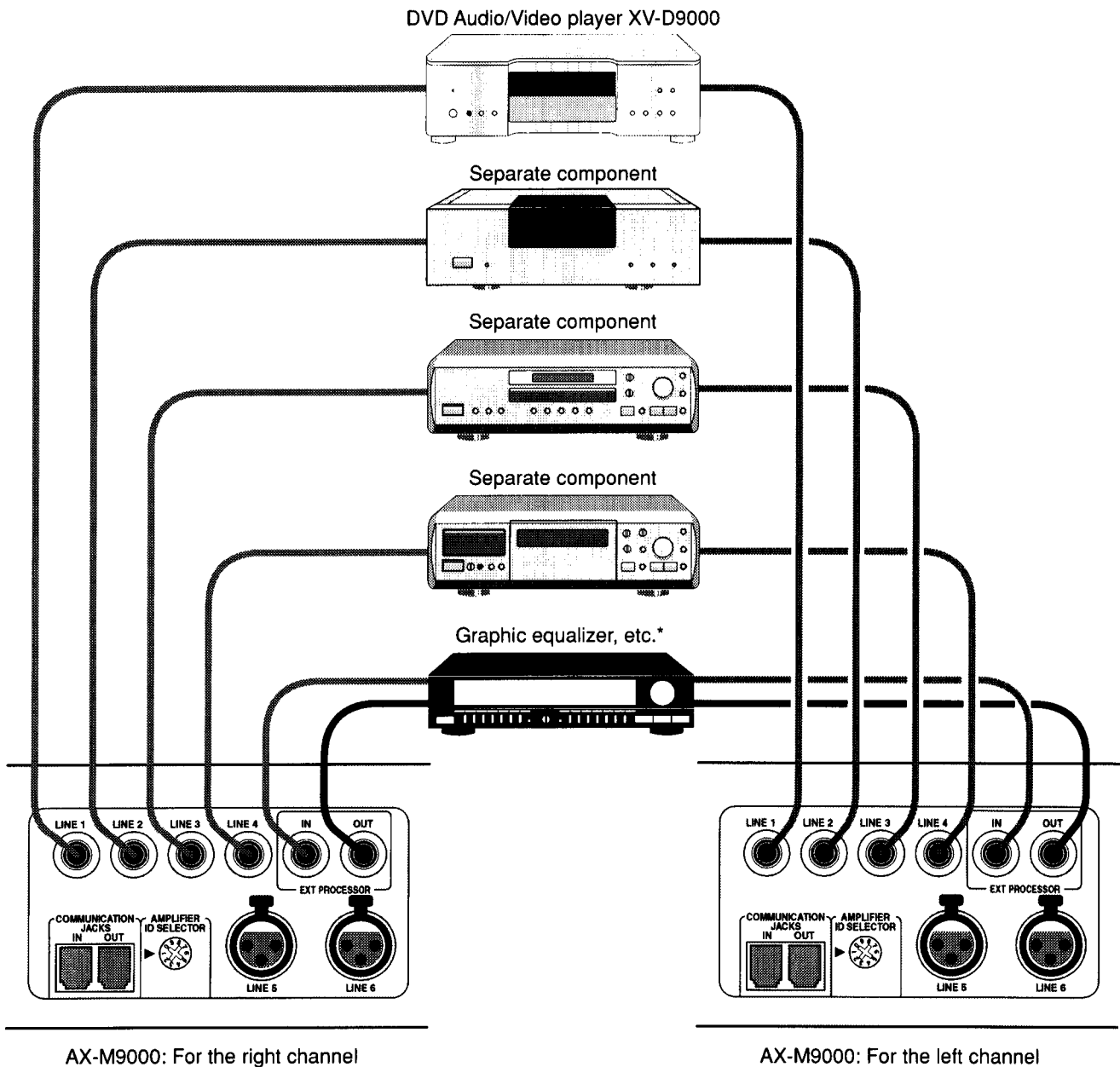
The single-body column foot design reinforces the hard chassis making it so that multiple units can be stacked on top of each other without creating the risk of vibration to the chassis. Therefore using multiple amplifier units stacked on top of each other does not lessen sound quality, efficiency, or reliability in any way.

# Connections

- When making connections, make sure that the power of this unit and all components to be connected are turned off and that the power cords are unplugged from the AC outlet.
- The quality of the sound you achieve can depend on the type and configuration of connection cables and cords. As RCA pin-cords are not supplied with this unit, it is necessary to purchase them separately.

## Using RCA pin-cords to make connections to other AV components

Example) When making stereo connections

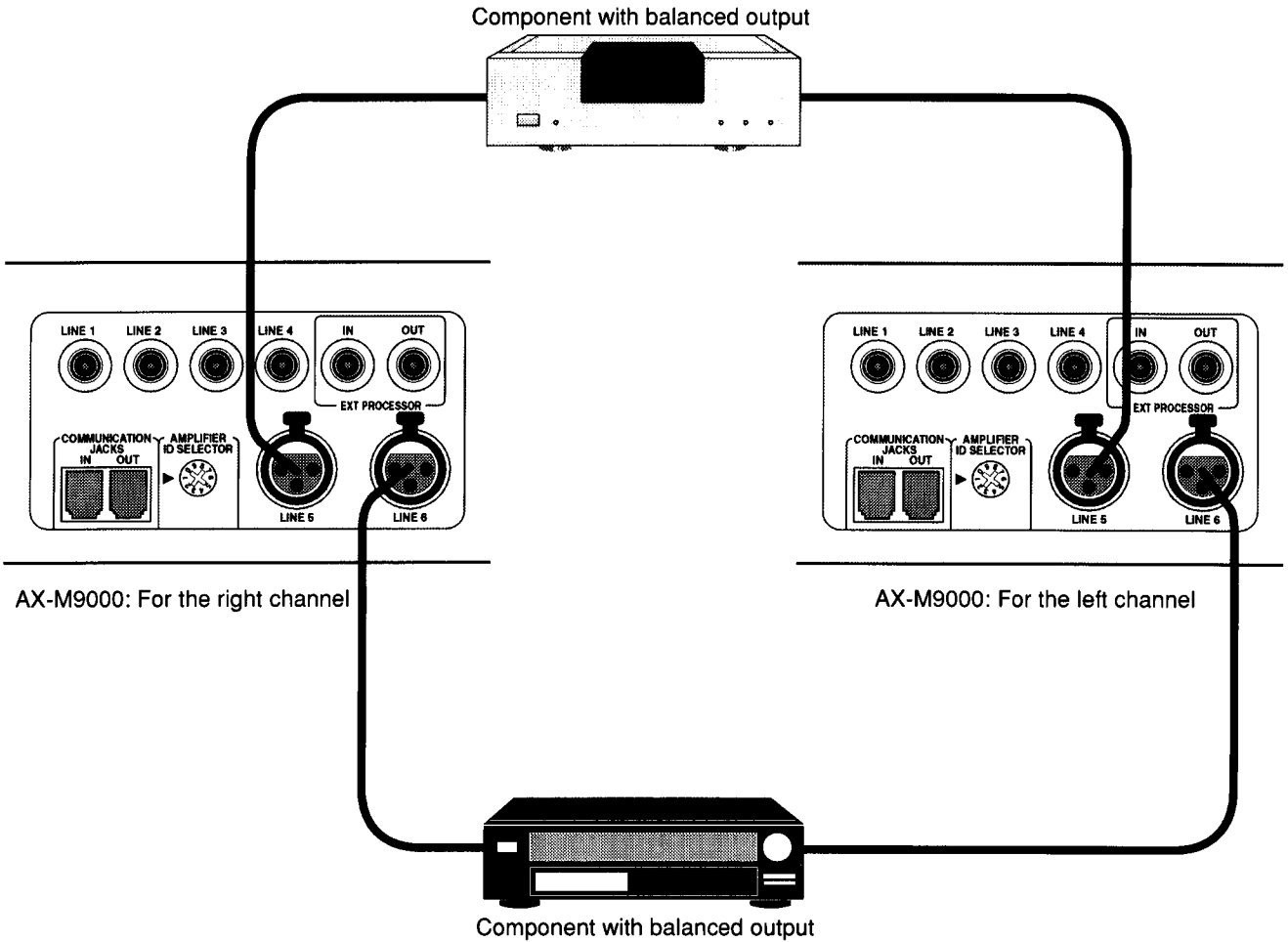


\* The EXT PROCESSOR jacks on this unit are for connection to a graphic equalizer or other analog component (digital connection is not possible). However, it is also possible to make connection to a recording device using the IN jack for playback and the OUT jack for recording.

## Using balanced cables to make connection to another component

Example) When making stereo connections

- When making connections to the components with balanced output, making both unbalanced (RCA) and balanced (cannon) connections can be the cause of noise, and the sound quality may be adversely affected. Make only one type of connection.

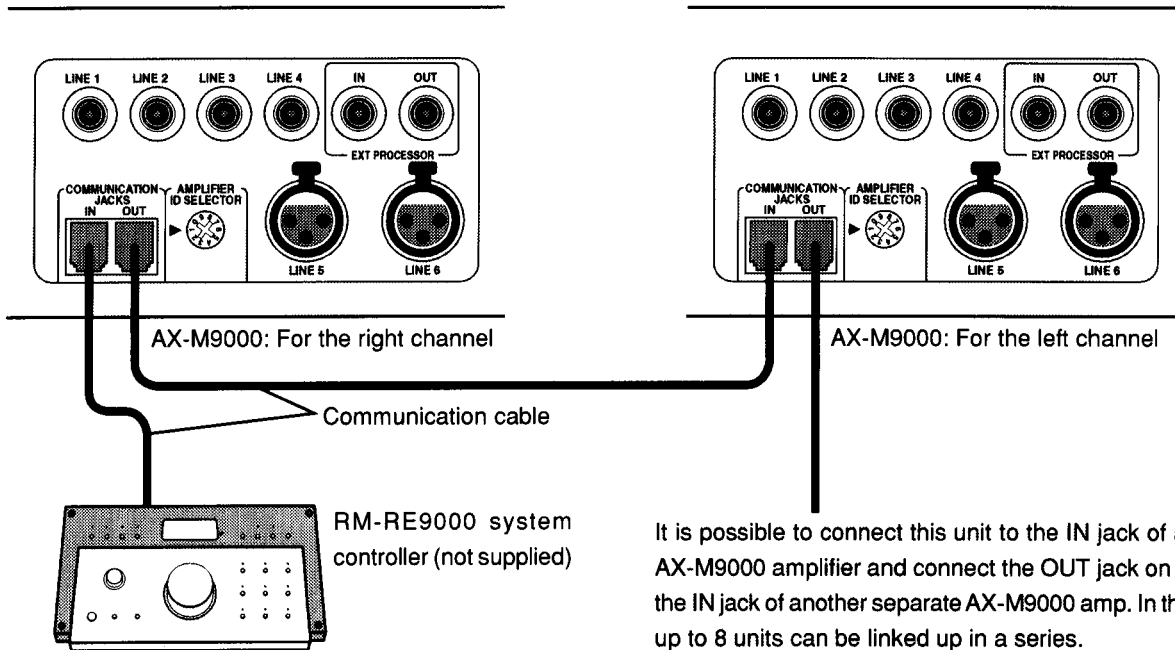




## Using a communication cable to make connections from this unit to another AX-M9000 unit

Example) When making stereo connections

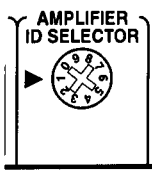
- Use the communication cable supplied with the AX-M9000.
- This unit can be linked up in a series of up to 8 units. (When using optional system controller, also refer to the instructions supplied with the RM-RE9000.)



## ID number assignment and operation

- By selecting the ID number at the RM-RE9000 system controller, it is possible to adjust and set the AMP GAIN, SOURCE GAIN, and other functions of AX-M9000 units in the system. (For operations, see page 17.) (Also refer to the instructions supplied with the RM-RE9000.)
- ID numbers can be set between 1 and 8.

**Turn the “+” of the AMPLIFIER ID SELECTOR, and align the ► with the ID number to be assigned. (0 and 9 cannot be used.)**



**Case 1) Simple connection (stereo), with both units set to ID number 1.**

Simultaneous control both units.



**Case 2) Multiple amplifier connection, with 4 units set to ID number 1 and 4 units set to ID number 2.**

Simultaneous control of 4 units (units set to either ID number 1 or ID number 2).



**Case 3) Multiple amplifier connection, with units numbered with ID numbers 1 to 8.**

Control of single unit with the set ID number.



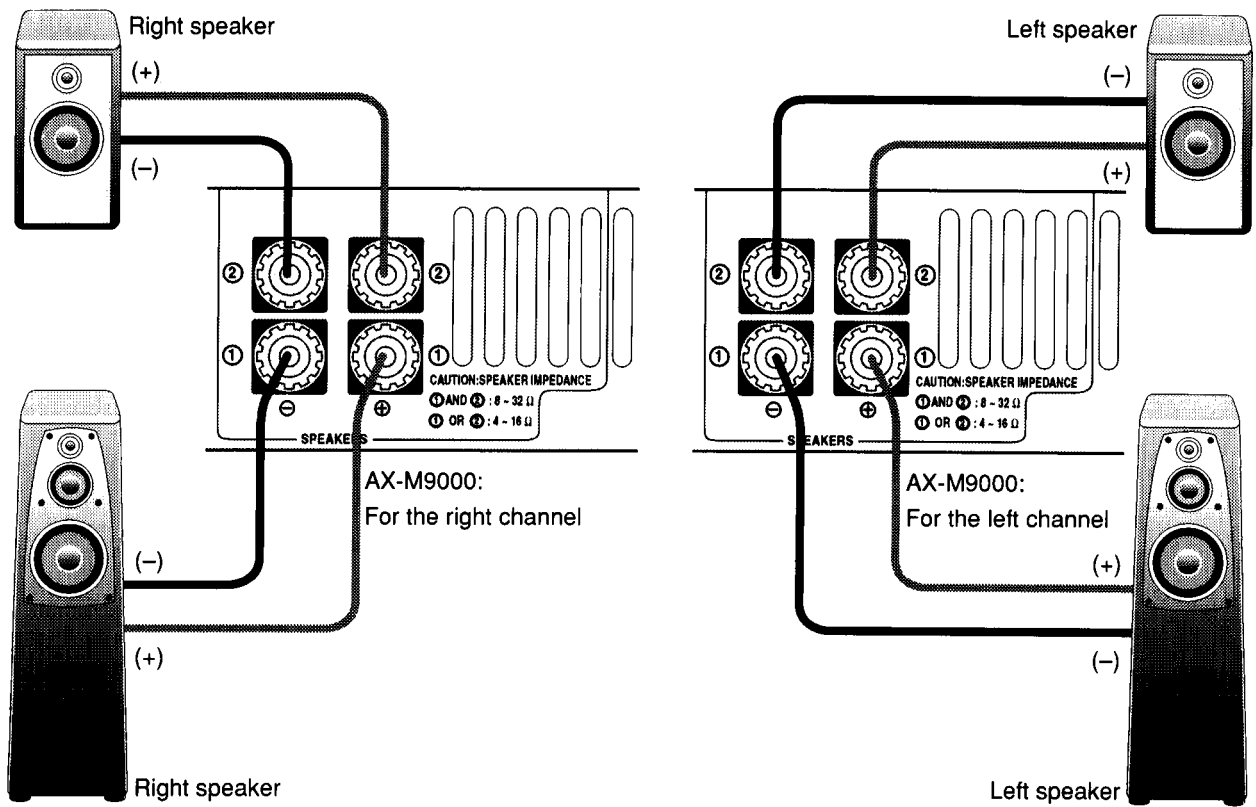
### Note:

- The optional system controller is capable of wireless control operations without using a communication cable connected to it.

## Making connections to speakers

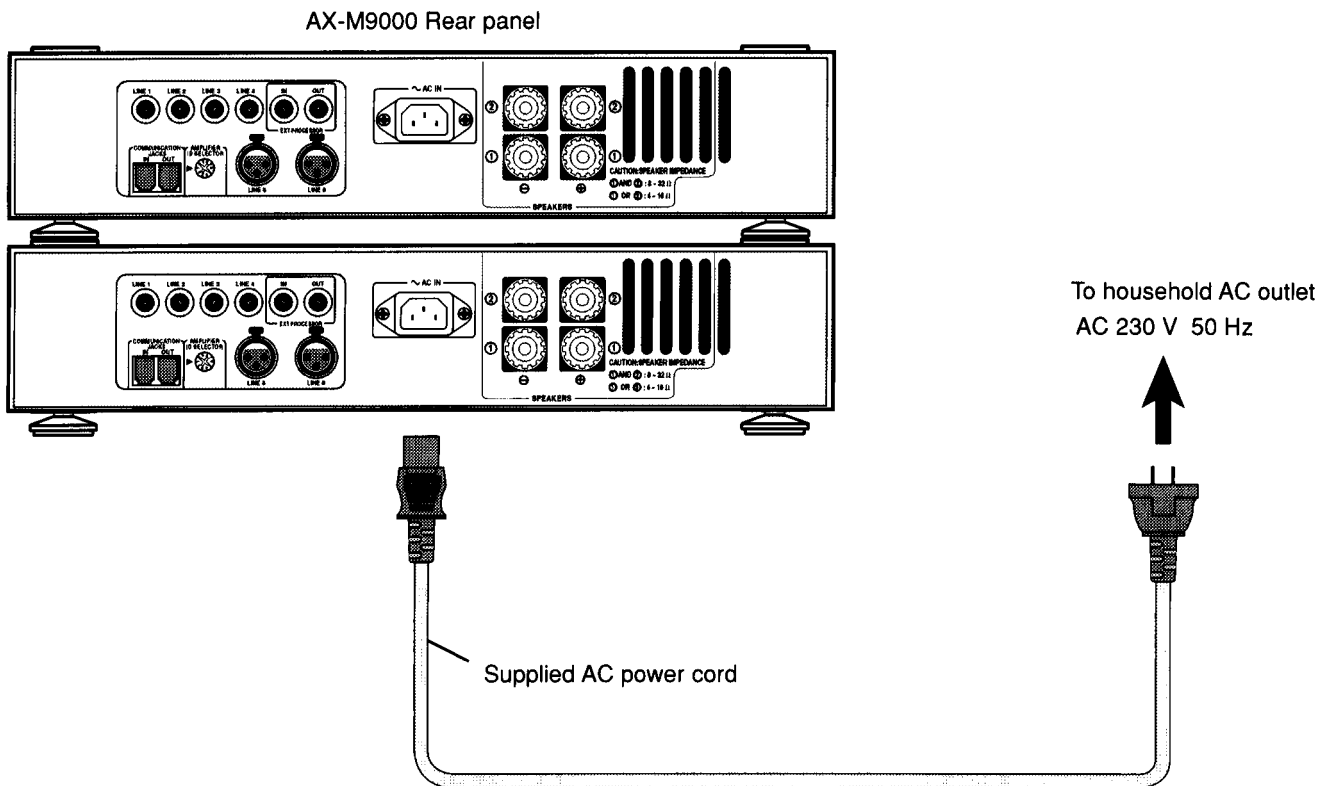
Example) When making stereo connections

- Connect the speakers making sure to observe the proper polarity: (+) to (+) and (-) to (-).



## Making power connections

- After inserting the power cord connector into the AC IN jack on the rear panel of this unit, plug into an AC outlet.
- Use the AC power cord supplied with this unit.



- The AC power cord should be plugged directly into a household AC outlet.
- Connect the AC power cord of all the amplifiers in the system to an AC outlet.

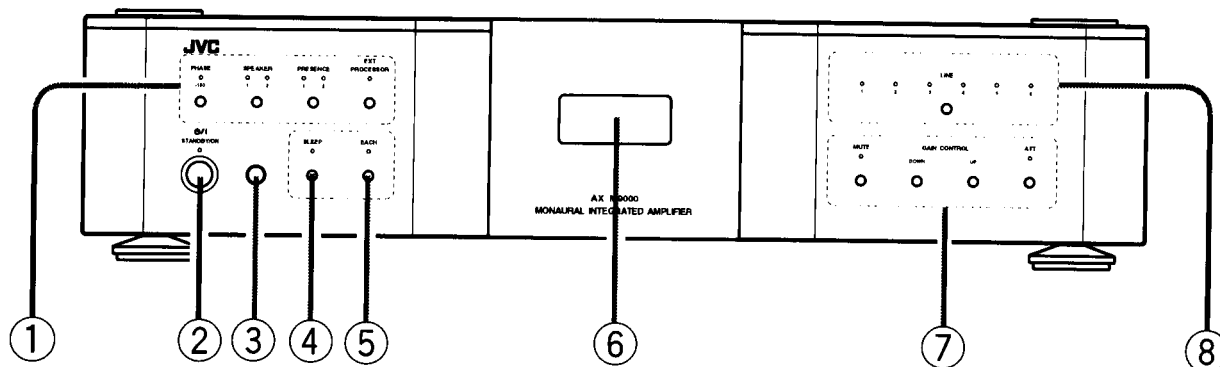
### CAUTION

Only use the AC power cord supplied with this unit.

Using a power cord other than the one specified may cause the unit to malfunction or present a fire hazard.

# Parts and Their Functions

## Front Panel



### ① PHASE button / indicator

Indicator is lit: The phase of the input and output is reversed.  
Indicator is not lit: The phase of input and output is the same.

### SPEAKER button / indicators

"1" indicator is lit: The speaker connected to speaker terminal 1 is selected.

"2" indicator is lit: The speaker connected to speaker terminal 2 is selected.

"1" and "2" indicators are lit: The both speakers connected to speaker terminal 1 and 2 are selected.

No indicator is lit: No speaker is selected.

### PRESENCE button / indicators

When using smaller speakers or when playback levels are low, this function boosts the lower frequencies to give a greater feeling of "being there".

"1" indicator is lit: The lower frequencies are boosted.  
There is a 3 dB level increase at 50 Hz.

"2" indicator is lit: The lower frequencies are boosted.  
There is a 4 dB level increase at 70 Hz.

No indicator is lit: The function is off.

### EXT PROCESSOR button / indicator

Indicator is lit: Selects the component connected to the EXT PROCESSOR jacks.

Indicator is not lit: The function is off.

### ② STANDBY/ON button / indicator

Indicator is not lit: Power is on.

Indicator is lit: Power is in standby.

### ③ Remote sensor

### ④ SLEEP button / Indicator

Indicator is lit: The sleep function is on.

Indicator is not lit: The sleep function is off.

For operations, see page 18.

### ⑤ EACH button / indicator

Indicator is lit: Only the amplifier physically being used and other amplifiers in the series with the same ID number are controlled.

Indicator is not lit: All of the amplifiers in the series connected by a communication cable are controlled.

### ⑥ Display

Displays the volume level.  
0.0 ~ 99.5 (Min. ~ Max.)

### ⑦ MUTING button / indicator

Indicator is lit: The volume is reduced to the absolute minimum.  
Indicator is not lit: The volume is restored to its former level.

### GAIN CONTROL buttons

Press DOWN to lower the volume.

Press UP to raise the volume.

### ATT button / indicator

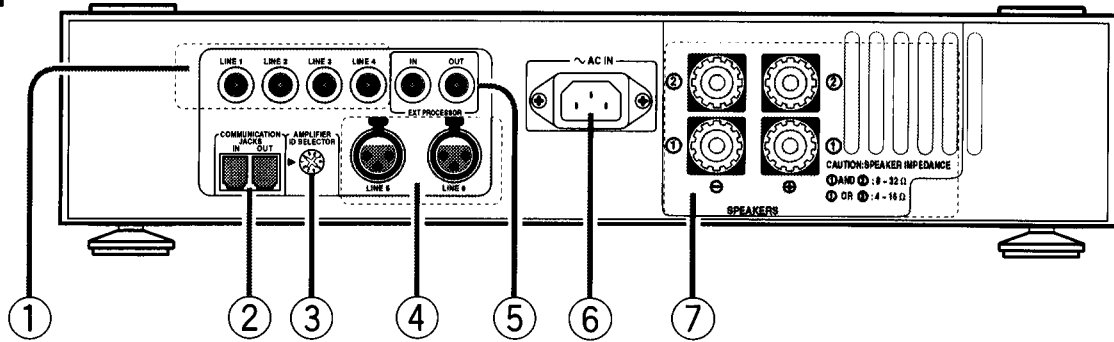
When a large input is encountered, it is possible to reduce the signal strength.

Indicator is lit: The gain of the input amp is lowered by 12 dB.  
Indicator is not lit: The function is off.

### ⑧ LINE button / indicators

The source changes every time the button is pressed. Only one of the LINE 1 to 6 indicators light up according to the selected line number.

## Rear Panel



### ① LINE input jacks

LINE 1 ~ LINE 4: Connect to the audio output jacks of separate audio and video components.

### ② COMMUNICATION JACKS

This jack is intended for connection to the RM-RE9000 system controller and other AX-M9000 units for system control.

IN: Connect to the RM-RE9000 system controller or to the OUT jack of another AX-M9000.

OUT: Connect to the IN jack of another AX-M9000.

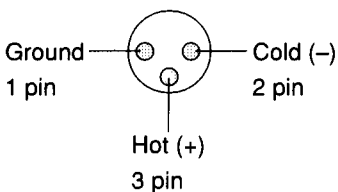
### ③ AMPLIFIER ID SELECTOR

An ID number can be assigned to each AX-M9000 amplifier in a series. (0 and 9 cannot be used.)

### ④ Balanced input jacks

LINE 5 and LINE 6: Connect to a CD player, etc., that features balanced audio output jacks (cannon).

Be sure to check the polarity of the output jack on the component to be connected before making connections.



### ⑤ EXT PROCESSOR jacks

Connection can be made to another component for additional audio processing.

IN: Connect to the output jack of the connected component.

OUT: Connect to the input jack of the connected component.

### ⑥ AC IN inlet (Power connection section)

Connect the supplied AC power cord connector to this inlet.

### ⑦ SPEAKERS terminals

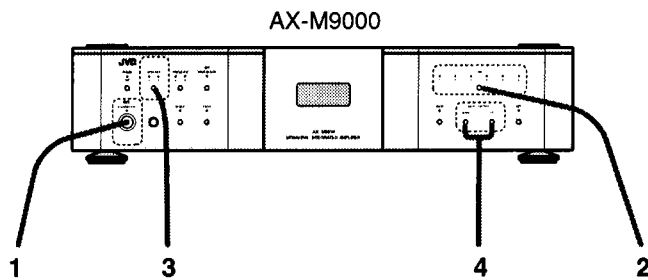
The speaker impedance is as follows,

1 AND 2: 8 Ω ~ 32 Ω compatible

1 OR 2: 4 Ω ~ 16 Ω compatible

# Basic Operations

## Basic control (Using controls on the amplifier)



- 1 Press the **STANDBY/ON** button to turn on the amplifier.
- 2 Press the **LINE** button repeatedly to select the input source.
- 3 Press the **SPEAKER** button to select speaker. Each time you press the **SPEAKER** button, the speaker system in use changes as follows:

→ 1 → 2 → 1+2 → OFF

- 4 Press the **GAIN CONTROL UP/DOWN** button to adjust the volume.  
For other buttons, refer to "Parts and Their Functions" on page 12.

### Note:

When this unit is connected by means of a communication cable, it is possible to control a single unit or any of the units in a series based on the ID numbers.

## Basic control (Using controls on the remote control)

Control the amplifier using the RM-RE9000 system controller (sold separately).

(Also refer to the instructions supplied with the RM-RE9000)

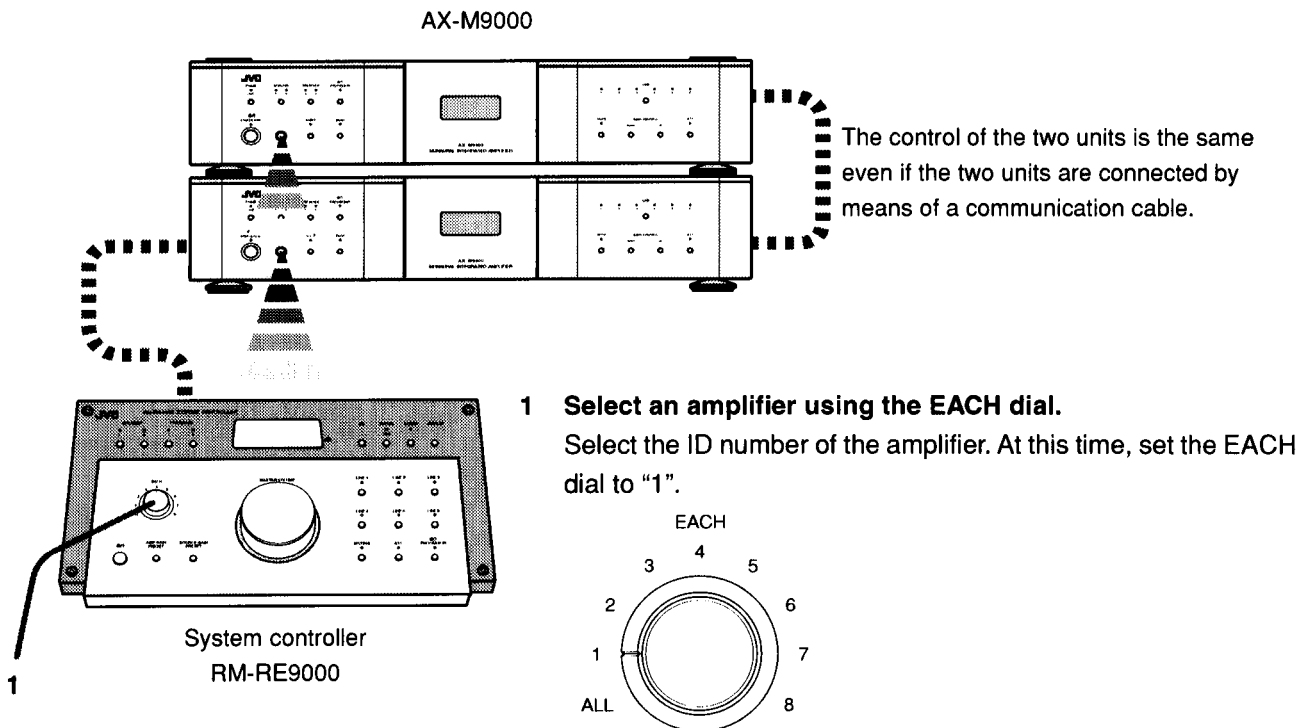
- The following explanation is for wireless control, however, the control for both wireless and wired control is the same.

Example) Using the system controller to control 2 amplifiers at the same time.

: Make basic stereo connections.

: Use 2 amplifiers and assign ID number 1 to both units.

During wireless control, make sure to use the system controller within the control range of the 2 amplifiers.



### Note:

1. When the EACH dial on the system controller is set to ALL, all of the amplifiers connected are controlled.
2. After adjustments have been made using the system controller, adjustments can still be made at each amplifier. These adjustments however do not change the settings at the system controller. Therefore, take care when making subsequent adjustments or changes in volume at the system controller.

# Controlling a Multi Channel System

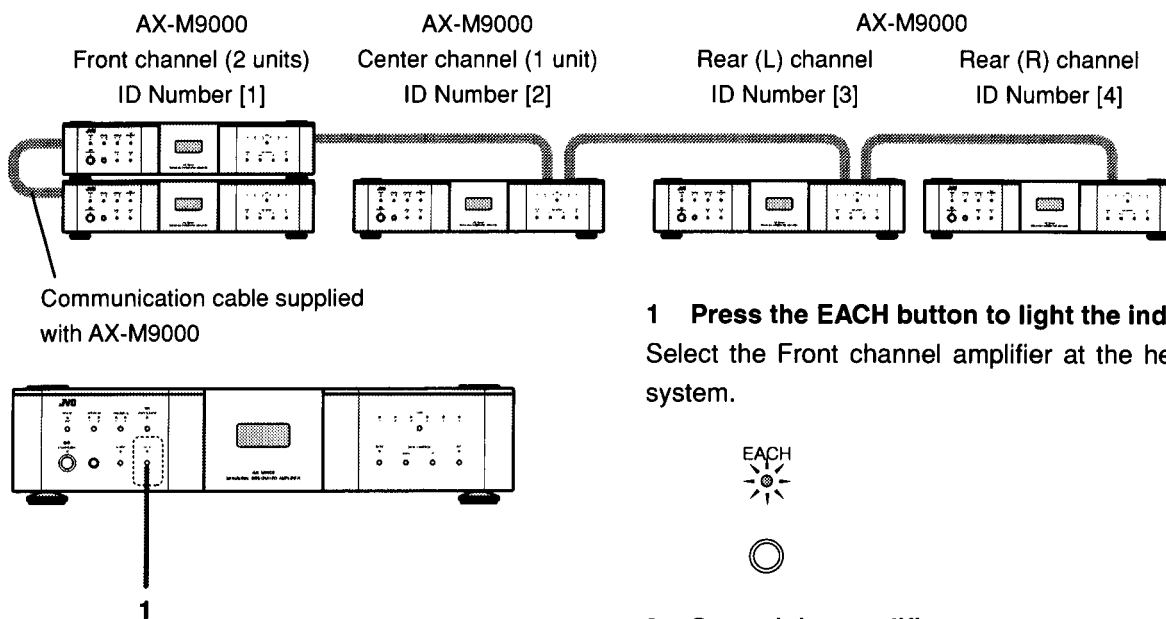
## Controlling a multi channel system (Using controls on the amplifier)

When this unit is connected by means of a communication cable, it is possible to control a single unit or any of the units in a series based on the ID numbers.

- The following explanation is for multi channel connections using 5 AX-M9000 amplifiers.

Example) Create a single amp using a configuration of 5 amplifiers, only 2 units with the same ID number.

- : Use a communication cable to set up the system for wired control.
- : A total of 5 amplifiers should be used for the Front (2), Center (1), and Rear (2) channels.
- : The following ID numbers should be assigned to the amps as follows: Front → 1, Center → 2, Rear (L) → 3, and Rear (R) → 4.



### Note:

When the EACH button on the controlled amplifier is OFF (the indicator is not lit), all of the amplifiers connected in the series are controlled as well.



## Controlling a multi channel system (Using controls on the remote control)

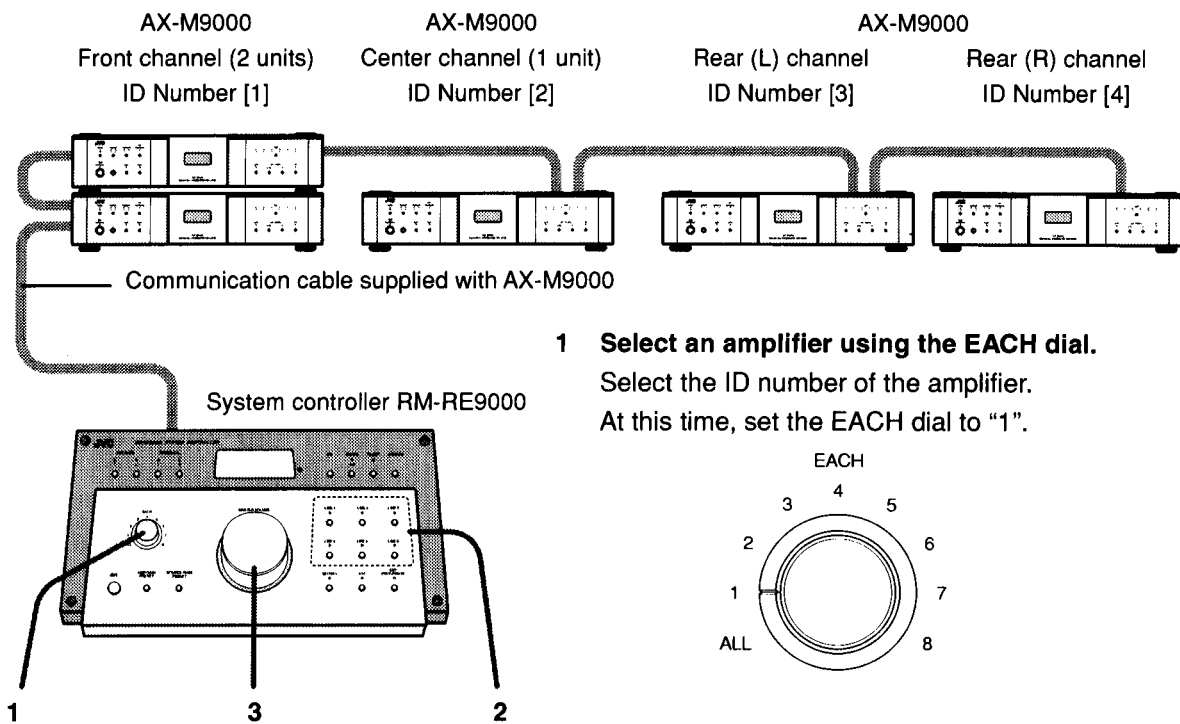
Using a RM-RE9000 system controller (sold separately), adjustments to the AMP GAIN and SOURCE GAIN settings can be made for a single unit or any of the units in a series.

(Also refer to the instructions supplied with the RM-RE9000.)

- The following explanation is for multi channel connections using 5 AX-M9000 amplifiers.
- When controlling the amplifier using the RM-RE9000 system controller, there are two kinds of control possible: “wireless” and “wired”. The following explanation is for wired control, however, the control for both wired and wireless control is the same.

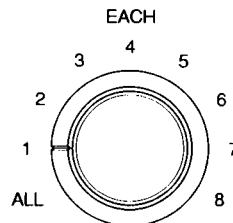
**Example)** Using the system controller to control 2 amplifiers used for Front channel.

- : Use a communication cable to set up the system for wired control.
- : A total of 5 amplifiers should be used for the Front (2), Center (1), and Rear (2) channels.
- : The following ID numbers should be assigned to the amplifiers as follows: Front → 1, Center → 2, Rear (L) → 3, and Rear (R) → 4.



### 1 Select an amplifier using the EACH dial.

Select the ID number of the amplifier.  
At this time, set the EACH dial to “1”.



### 2 Press the LINE button corresponding to the desired source component.

### 3 Adjust the volume.

Refer to the instructions supplied with the RM-RE9000 for details on setting the volume level (amplifier gain) and input level (source gain).

### 4 Control the amplifier.

Refer to “Basic control (Using controls on the amplifier)” on page 14 and “Parts and Their Functions” on page 12.

### Note:

1. When the EACH dial on the system controller is set to ALL, all of the amplifiers connected in the series are controlled.
2. After adjustments have been made using the system controller, adjustments can still be made at each amplifier. These adjustments however do not change the settings at the system controller. Therefore, take care when making subsequent adjustments or changes in volume at the system controller.

# Using the sleep function

## Using the sleep function (Using controls on the amplifier )

The SLEEP button enables you to set the AX-M9000 and other components connected by means of a communication cable to turn off automatically after a specified time period.

**Press the SLEEP button to light the indicator.**

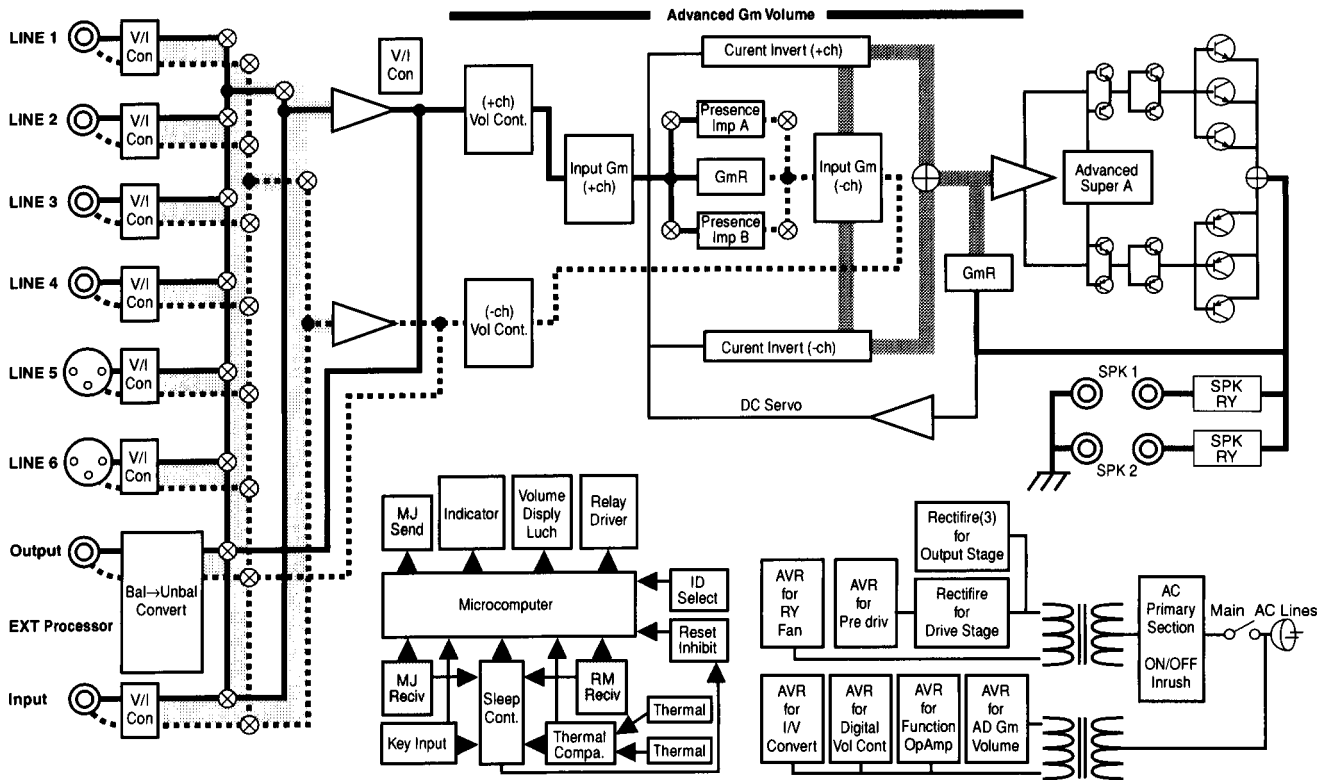


- When the SLEEP key is pressed, the display shows "00".
- Each time you press the SLEEP button, the set time (in minute) switches as shown below.

→ 00 → 10 → 20 → 30 → 40 → 50 → 60 → 70 → 80 → 90 →

- When the set time has elapsed, the AX-M9000 is turned off automatically.
- The components connected through communication cables are turned off in the interlocked operation. It is not possible to perform the setting for single components.
- While the sleep function is enabled, you can press the SLEEP button to see how much time is left. To cancel the sleep function, press the SLEEP button until the SLEEP indicator disappears.

# Block Diagram



# Troubleshooting

## **No sound from speakers**

- Check that input and output connections and speaker connections have been made correctly.
- Make sure that the LINE selector is set for input from jacks that are connected to another component.
- Check that the SPEAKER selector is set appropriately for the connected speakers.

## **No sound from speakers, and 3 horizontal bars blink in the display**

- Overload or overheating has caused the protection circuitry to activate. Correct the problem, and turn on the power again.

## **Position and movement of the music is not clear**

- Make sure that the polarity of the speaker wire connections (+, -) is correct.

## **When using the GAIN CONTROL buttons on the amp, a small sound can be heard from the speakers when the displays volume levels around 44.0 and 70.0**

- This is part of the advanced Gm volume feature of this unit. When this function is working, there is a reduction in the S/N. This is not a malfunction.

# Specifications

## ● General

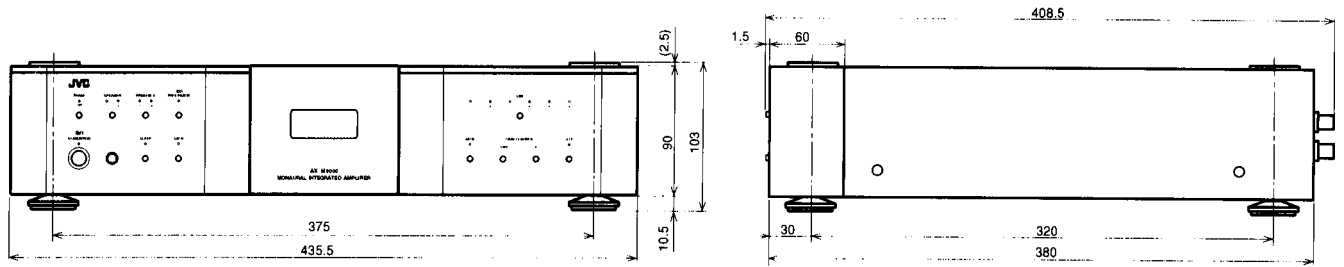
Power supply	: AC 230 V~ 50 Hz
Power consumption	: 310 W (At operation) 7 W (During standby)
Weight	: 18.4 kg
Accessories	: Power cord x1 Communication cable x1

## ● Amplifier

Pre-amplifier (voltage amplification)	: Gm Driver
Power amplifier (current amplification)	: Advanced Gm Volume Advanced Super-A
(Power source)	: Independent direct power supply
Continuous average power output (FTC)	: 200 W (at 8 $\Omega$ , 20 Hz-20 kHz 0.04% THD) 300 W (at 4 $\Omega$ , 20 Hz-20 kHz 0.05% THD)
Signal-to-noise ratio	: 83 dB (EIAJ)
Distortion factor	: 0.01% (-3 dB at rated power, 20 Hz-20 kHz at 8 $\Omega$ )
IM distortion	: 0.03%
Frequency response	: 5 Hz-200 kHz (+0 dB, -3 dB at Volume -40 dB)
Impedance	: 4 $\Omega$ -16 $\Omega$
Damping factor	: 150 at 8 $\Omega$
Input sensitivity (INPUT ATT. ON)	: 200 mV/15 k $\Omega$ (800 mV/15 k $\Omega$ )
LINE 1-LINE 4 (RCA)	: 200 mV/15 k $\Omega$
LINE 5-LINE 6 (XLR)	: 200 mV/15 k $\Omega$
Audio output (output level)	: PROCESSOR output (200 mV/1 kHz)
PRESENCE control	: MODE 1 +3 dB at 50 Hz MODE 2 +4 dB at 70 Hz

The specifications and appearance of this model are subject to change without notice.

# Dimensions



(Units: mm)

**Memo**

