

# *KMA-700/KMA-500*

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*Digital Karaoke Mixing Amplifier*

卡拉 OK 数码功放

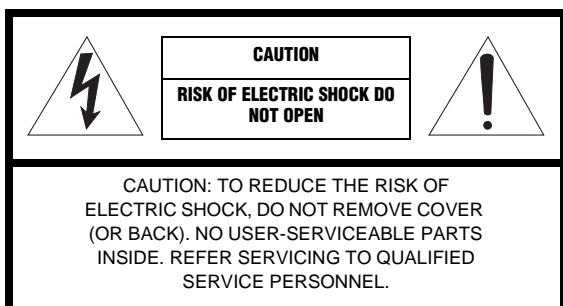
OWNER'S MANUAL

使用说明书

MANUAL DE INSTRUCCIONES

사용 설명서

# IMPORTANT SAFETY INSTRUCTIONS



## • Explanation of Graphical Symbols



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



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

## IMPORTANT

Please record the serial number of this unit in the space below.

**MODEL:**

**Serial No.:**

The serial number is located on the rear of the unit.

Retain this Owner's Manual in a safe place for future reference.

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



## FCC INFORMATION (for US customers)

**1 IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!**

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

**2 IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

**3 NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class “B” digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit “OFF” and “ON”, please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave., Buena Park, CA 90620.

The above statements apply **ONLY** to those products distributed by Yamaha Corporation of America or its subsidiaries.

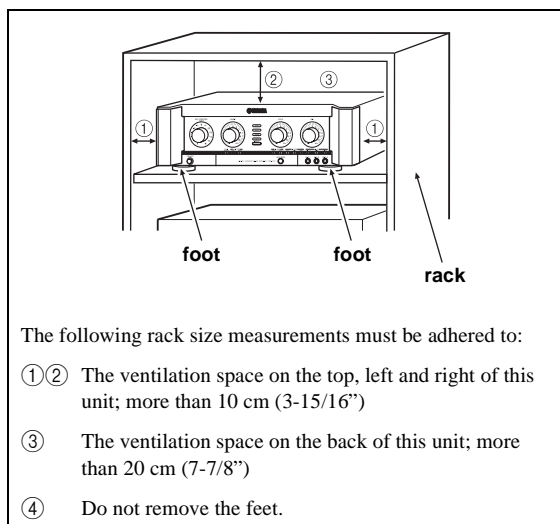
### We Want You Listening For A Lifetime



Yamaha and the Electronic Industries Association’s Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing. Since hearing damage from loud sounds is often undetectable until it is too late, Yamaha and the Electronic Industries Association’s Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.

## Caution: Read this before operating your unit

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2 Install this sound system in a well ventilated, cool, dry, clean place – away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. Allow ventilation space of at least 10 cm (3-15/16") on the top, left and right of this unit, and 20 cm (7-7/8") on the back.
- 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- 4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- 5 Avoid installing this unit where foreign objects may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
  - Other components, as they may cause damage and/or discoloration on the surface of this unit.
  - Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
  - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- 7 Do not plug in this unit to an AC wall outlet until all connections are complete.
- 8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- 9 Do not use force on switches, knobs and/or cords.
- 10 When disconnecting the power cord from the AC wall outlet, grasp the plug; do not pull the cord.
- 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- 13 To prevent damage by lightning, keep the power cord disconnected from an AC wall outlet or the unit during a lightning storm.
- 14 Do not attempt to modify or fix this unit. Contact qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons.
- 15 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the AC wall outlet.
- 16 Install this unit near the wall outlet and where the AC power plug can be reached easily.
- 17 Be sure to read the "Troubleshooting" section on common operating errors before concluding that this unit is faulty.
- 18 Before moving this unit, press POWER switch to turn this unit off, and disconnect the power cord from the AC wall outlet.
- 19 The batteries shall not be exposed to excessive heat such as sunshine, fire or like.
- 20 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power supply cable from the outlet, then leave the unit alone.
- 21 When using the unit for a long time, the unit may become warm. Turn the power off, then leave the unit alone for cooling.
- 22 **VOLTAGE SELECTOR** (Except U.S.A. model)  
The VOLTAGE SELECTOR on the rear panel of this unit must be set for your local main voltage BEFORE plugging into the AC wall outlet.



### WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if you turn off this unit by POWER switch.

### CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

### CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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INTRODUCTION

PREPARATION

OPERATION

ADDITIONAL  
INFORMATION

English

Thank you for your purchase of the Yamaha KMA-700/KMA-500 Digital Karaoke Mixing Amplifier. This document is the owner's manual for both KMA-700 and KMA-500. Model names are given where the details of functions are unique to each model. Illustrations for KMA-700 are mainly used for explanations. Before using this unit, be sure to read this manual so that you can take full advantage of the features of this unit. After you finish reading, keep this manual in a safe place in case you need it in the future. The manual should be very helpful in understanding the Digital Karaoke Mixing Amplifier and solving any difficulties that may arise during use.

## HANDLING PRECAUTIONS

### ■ Do not install the unit in the following locations:

- In places exposed to direct sunlight or near heat sources, such as a radiator.
- In places where heat cannot escape due to poor ventilation, or are very humid or dusty.
- On a sloping surface or exposed to excessive vibration.
- In places which may be exposed to rain, such as near a window.
- In places which may be exposed to soot, vapor or heat, such as near cooking facilities.

## BEFORE CONNECTING

### ■ Connection precautions

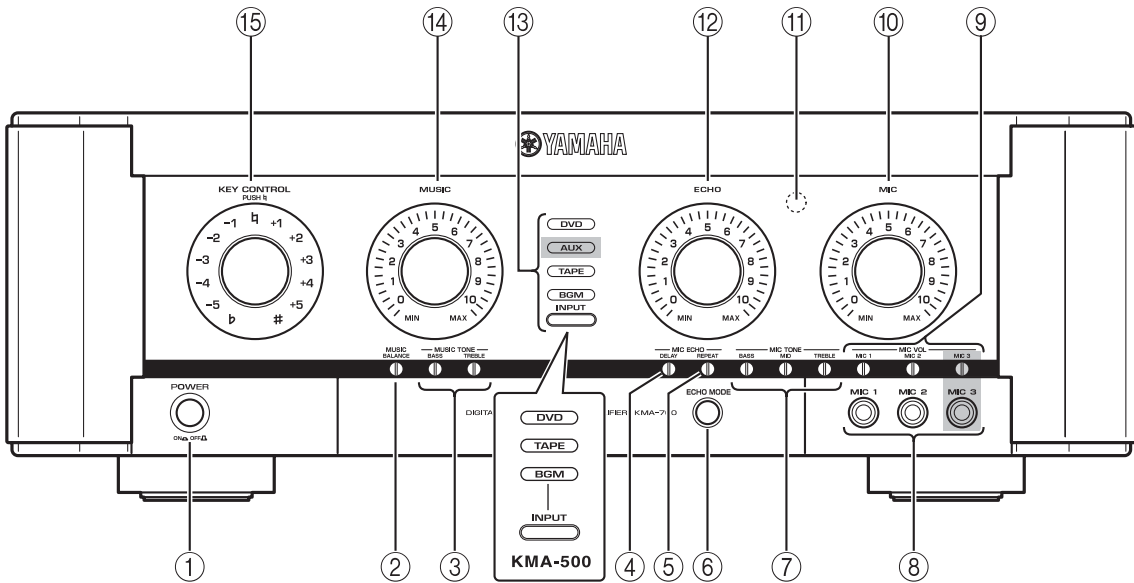
- Be sure to switch off the power of the relevant equipment before making any connection.
- The white input/output jacks of the amplifier are designed for the left channel, while the red input/output jacks are for the right channels. Be sure to connect the cords without making a mistake in the color codes for the left and right channels.
- Insert the plugs of the connection cords securely into the jacks. If the connection is incomplete, there may be no sound produced or noise may be generated.
- When unplugging the power cable from the AC wall outlet, be sure to hold the plastic molding of the plug itself and pull.
- For KMA-700, set IMPEDANCE SELECTOR on the rear panel before turning on the unit. Refer to "IMPEDANCE SELECTOR" on page 7.
- Except in the case of the U.S.A. model, VOLTAGE SELECTOR on the rear panel of this unit must be set for your local main voltage BEFORE plugging the power cable into the AC wall outlet. Refer to "VOLTAGE SELECTOR" on page 9.

### ■ Power consumption of AC OUTLETS (U.S.A. model only)

- Be careful that the total power consumption does not exceed the wattage marked on the rear panel. Do not connect appliances other than system components to the AC OUTLETS of this unit.
- Do not connect a TV set to this unit; even if it indicates a power consumption value below the permissible value when the TV power is turned on.

# NAMES OF PARTS AND THEIR FUNCTIONS

## Front panel



The shaded part (■) is provided for KMA-700 only.

### ① POWER (ON/OFF)

Turn the power ON/OFF.

### ② MUSIC BALANCE

Adjust the volume balance.\*

### ③ MUSIC TONE (BASS/TREBLE)

Adjust the low/high frequency response.\*

### ④ MIC ECHO DELAY

Adjust the delay time between echoes.\*

### ⑤ MIC ECHO REPEAT

Adjust the amount of feedback.\*

### ⑥ ECHO MODE

Select NORMAL, WIDE (stereo) or SPACIOUS\*\* echo. SPACIOUS echo is an effect that produces both NORMAL and WIDE echo with a time lag. The LED lights up in amber/green\*\* when WIDE/SPACIOUS\*\* echo is selected.

### ⑦ MIC TONE (BASS/MID/TREBLE)

Adjust the low/middle/high frequency response of microphones.\*

### ⑧ MIC jacks (1/2/3\*\*)

Connect microphones to these jacks.

### ⑨ MIC VOL (1/2/3\*\*)

Adjust the microphone input level.\*

### ⑩ MIC

Adjust the overall volume of all microphones.

### ⑪ Remote sensor

This sensor receives signals from the remote control.

### ⑫ ECHO

Adjust the amount of echo.

### ⑬ INPUT/Input source indicators (DVD/AUX\*\*/TAPE/BGM)

INPUT is not available in the default setting.

To activate INPUT, refer to "Input mode" on page 14.

Input source indicators indicate the input source currently active.

### ⑭ MUSIC

Adjust the volume of the music source.

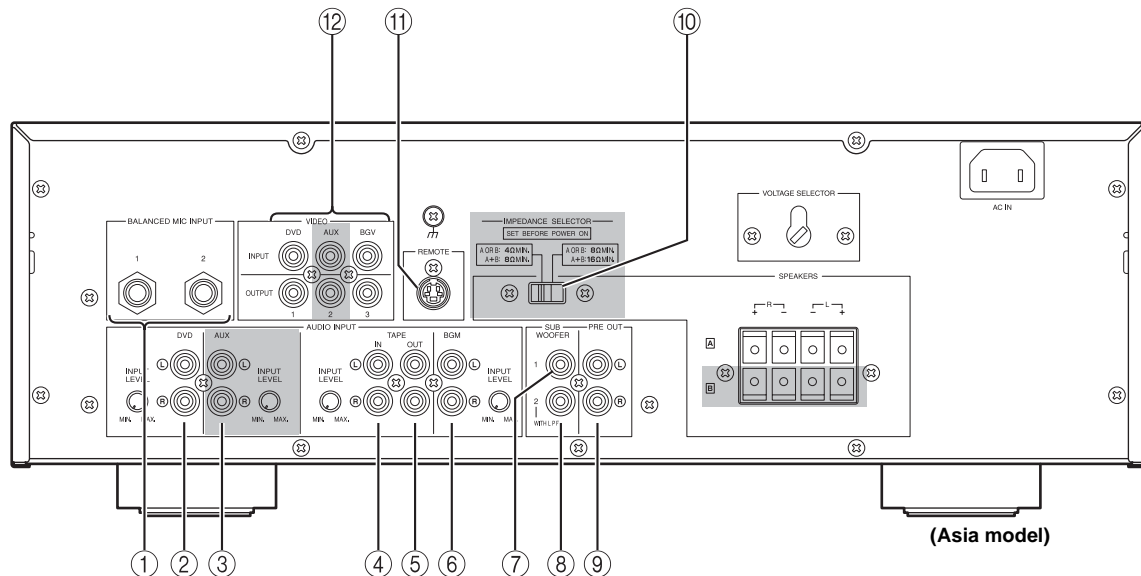
### ⑮ KEY CONTROL

To transpose the key of the played music, rotate this control. The key can be changed in half-tone steps in 5 steps; either higher or lower. To reset the key to the natural key, press this control. If over 4 seconds of silence occurs, the unit assumes the played song has finished and resets the key to natural.

\* Use a flathead screwdriver to adjust.

\*\* KMA-700 only

## Rear panel



The shaded part ( ) is provided for KMA-700 only.

For details on component connection, refer to “SYSTEM CONNECTIONS” on page 6.

**① BALANCED MIC INPUT jacks (1/2)**

Connect microphones to these jacks.

These are balanced inputs and each connects to the same circuit MIC 1 and 2 on the front panel.

**② DVD audio input jacks**

Connect to the output jacks of KARAOKE equipment or DVD player.

**③ AUX audio input jacks\***

Connect to the output jacks of a TAPE player, VCR, etc.

**④ TAPE audio input jacks**

Connect to the output jacks of a TAPE player, VCR, etc.

**⑤ TAPE audio output jacks**

Connect to the input jacks of a TAPE player, VCR, etc.

**⑥ BGM audio input jacks**

Connect to the output jacks of the source component of background music.

**⑦ SUBWOOFER jack without low-pass filter**

Connect to the input jack of the subwoofer with a low-pass filter. This jack outputs the monaural signal directly.

**⑧ SUBWOOFER jack with low-pass filter**

Connect to the input jack of the subwoofer.

**⑨ PRE OUT jacks**

Connect to the input jacks of the extension power amplifier.

**⑩ IMPEDANCE SELECTOR\***

Refer to “IMPEDANCE SELECTOR” on page 7.

**⑪ REMOTE jack**

Connect to an external remote control.

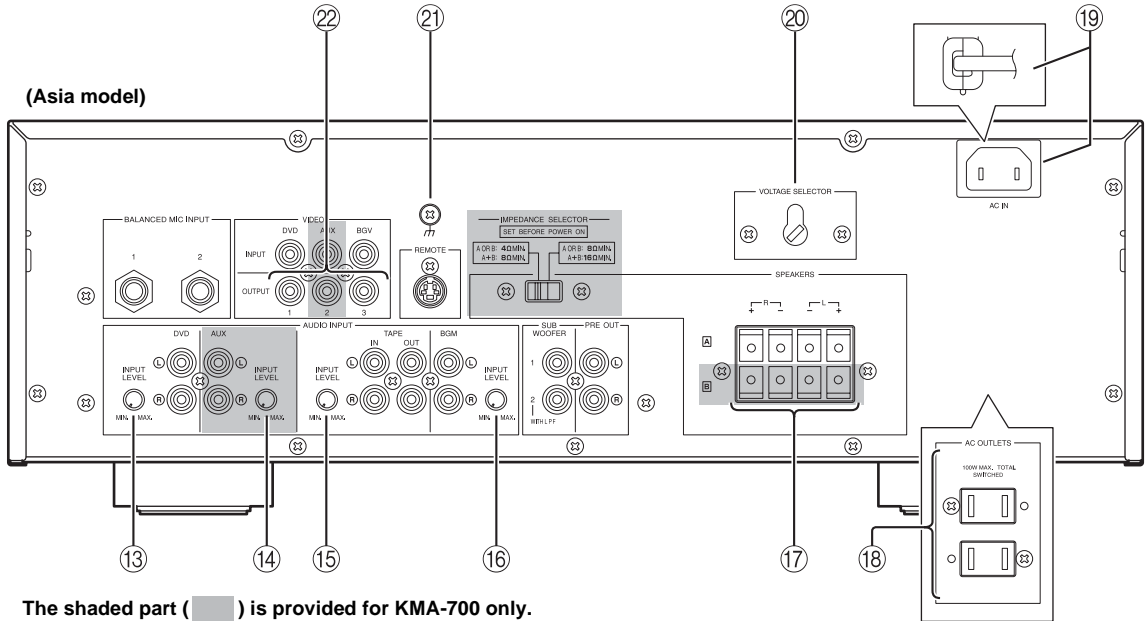
Refer to “Connecting an external remote control” on page 8.

**⑫ VIDEO INPUT jacks**

Connect to the input jack of the video output of a DVD, AUX\*, or background video player or video camera, etc.

\* KMA-700 only





The shaded part (■) is provided for KMA-700 only.

**13 DVD INPUT LEVEL**

Adjust the balance of the DVD input level with respect to other inputs (AUX\*, TAPE, BGM).

**14 AUX INPUT LEVEL\***

Adjust the balance of the AUX input level with respect to other inputs (DVD, TAPE, BGM).

**15 TAPE INPUT LEVEL**

Adjust the balance of the TAPE input level with respect to other inputs (DVD, AUX\*, BGM).

**16 BGM INPUT LEVEL**

Adjust the balance of the BGM input level with respect to other inputs (DVD, AUX\*, TAPE).

**17 SPEAKERS (Speaker system terminal(s))**

Connect to the speaker system(s).  
For KMA-500, only one speaker system is available.

**18 AC OUTLETS (Max. total power consumption: 100 W. U.S.A. model only)**

Refer to "AC OUTLETS" on page 9.

**19 AC IN (Except U.S.A. model)**

Refer to "AC IN" on page 9.

**Power cable (U.S.A. model only)**

Plug this cable into an AC wall outlet.

**20 VOLTAGE SELECTOR (Except U.S.A. model)**

Refer to "VOLTAGE SELECTOR" on page 9.

**21 Signal ground terminal**

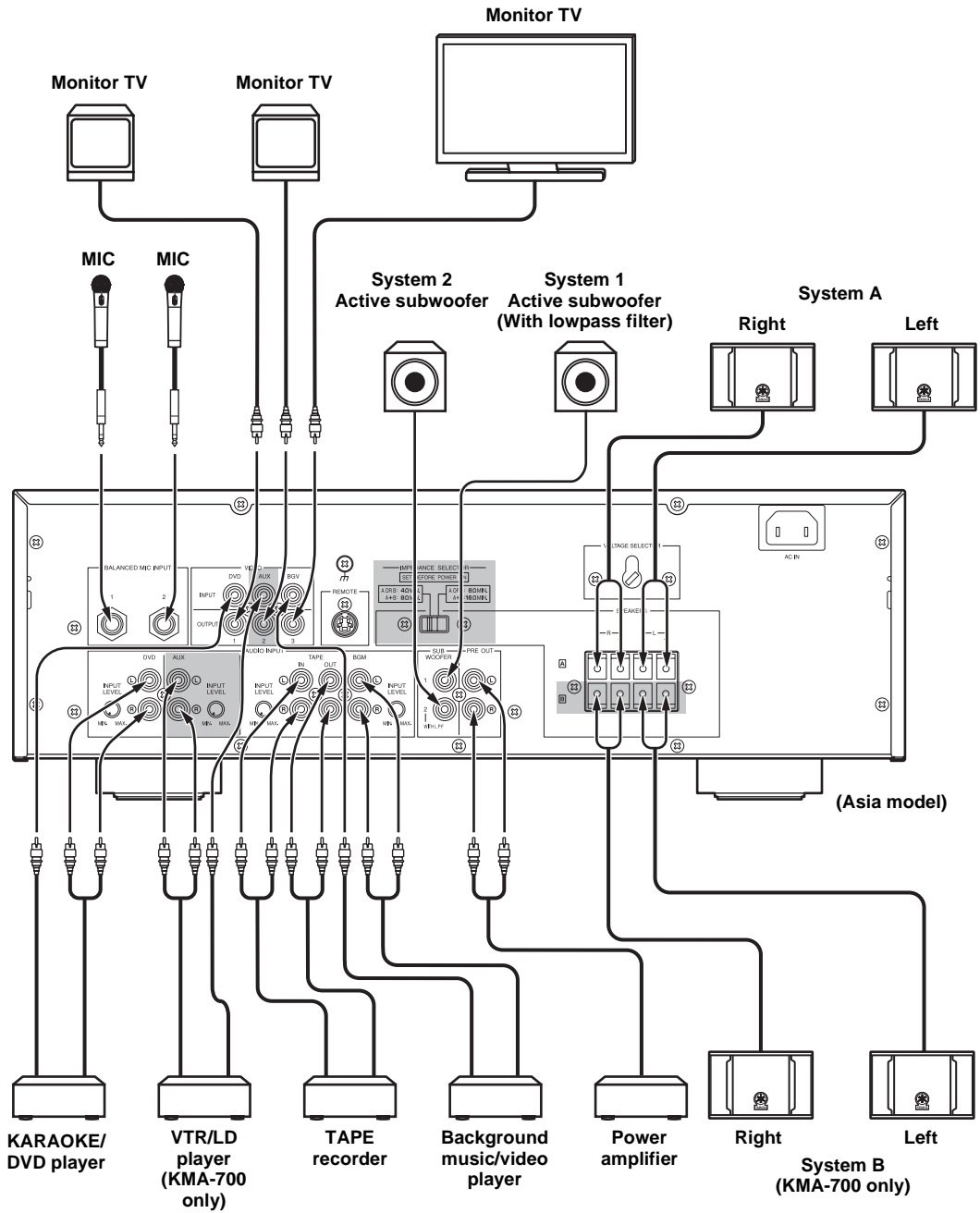
Connect this terminal if a humming noise is emitted when connecting this amplifier.

**22 VIDEO OUTPUT jacks**

Connect to the video input of the monitor.

\* KMA-700 only

# SYSTEM CONNECTIONS

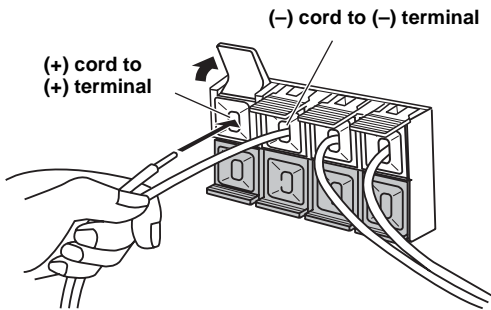


The shaded part ( ) is provided for KMA-700 only.

# CONNECTIONS

## ■ Connecting speaker cords

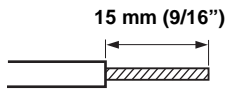
- 1 Pull the lever up to open, then insert the conductor wire into the hole.



The shaded part (■) is provided for KMA-700 only.

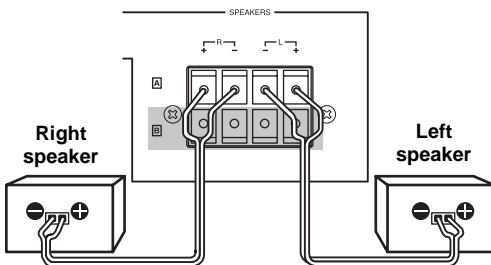
- 2 Close the lever to secure the conductor wire.

Before connection, strip a section of coating 15 mm (9/16") in length from the end of each cord using a tool such as pliers.



### Note

Be careful that the cord conductors projected from a terminal do not contact with another cord. Contact from the conductors of different speaker cords may cause damage to the system.



The shaded part (■) is provided for KMA-700 only.

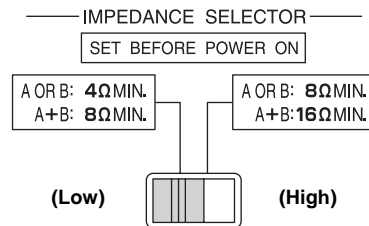
## ■ Important precautions for speaker connection

- The maximum outputs of this unit are as follows:  
KMA-700 ..... 120 W + 120 W  
KMA-500 ..... 100 W + 100 W  
Accordingly, the maximum input power of the speakers used must exceed the above.
- Use Yamaha speakers to prevent any trouble or damage caused by mismatching.

### [For KMA-700]

#### IMPEDANCE SELECTOR

- Before turning on this unit, be sure to set IMPEDANCE SELECTOR on the rear panel to the position whose requirements your speaker system meets.



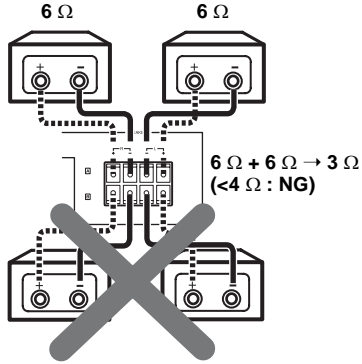
Switch position	If your system uses:	Speaker impedance level
Low	One speaker system	4 Ω or higher
	Two speaker systems	8 Ω or higher
High	One speaker system	8 Ω or higher
	Two speaker systems	16 Ω or higher

- Do not change IMPEDANCE SELECTOR setting while the power to this unit is on, otherwise this unit may be damaged.

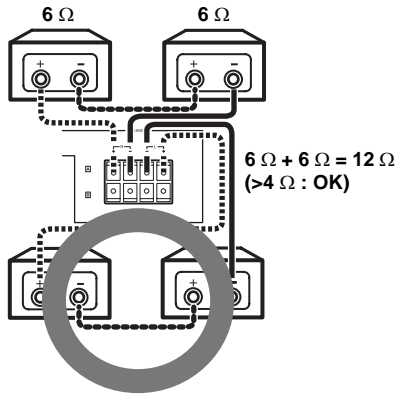
#### Connection examples

The minimum speaker impedance is 4 Ω. If two 6 Ω speaker systems are connected in parallel, this will exceed the design value and trigger a safety protector device. When two speaker systems are used and the protector is frequently activated, the speaker systems should be connected serially instead.

**1. Parallel connection**  
(each speaker should be 8 Ω or more)



**2. Series connection**  
(total: over 4 Ω is available)

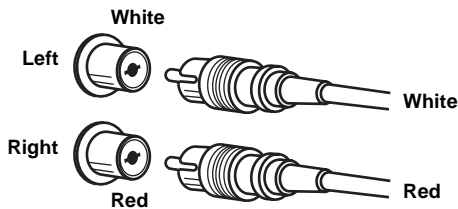


**[For KMA-500]**

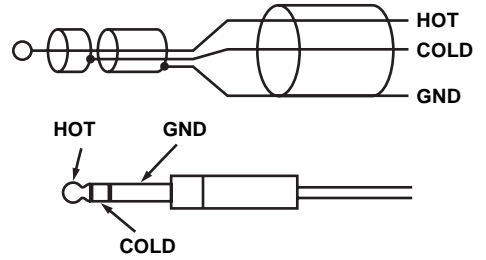
The speaker impedance must be between 8 Ω to 16 Ω.

**■ Connecting the RCA pin plugs**

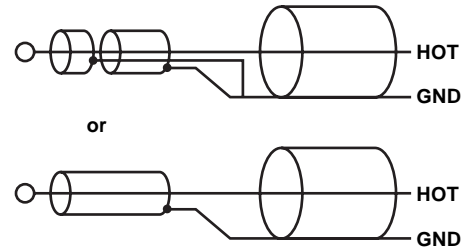
When connecting RCA pin plugs, be sure to insert the red plug into the red jack and the white plug into the white jack.



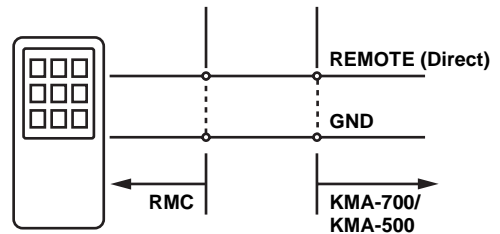
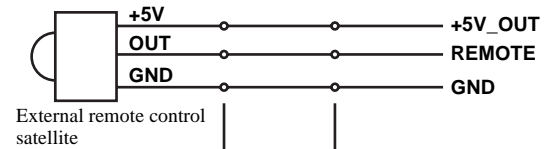
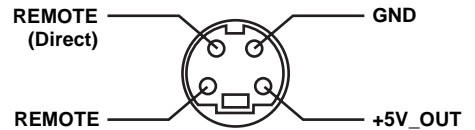
**■ Connecting to the balanced input**



**■ Connecting to the unbalanced input**



**■ Connecting an external remote control**



**1. External remote control satellite**

Connect to +5V\_OUT, REMOTE and GND.

**Note**

By connecting the remote control satellite to this input, this unit can receive the signal of the remote control.

**2. REMOTE (Direct)**

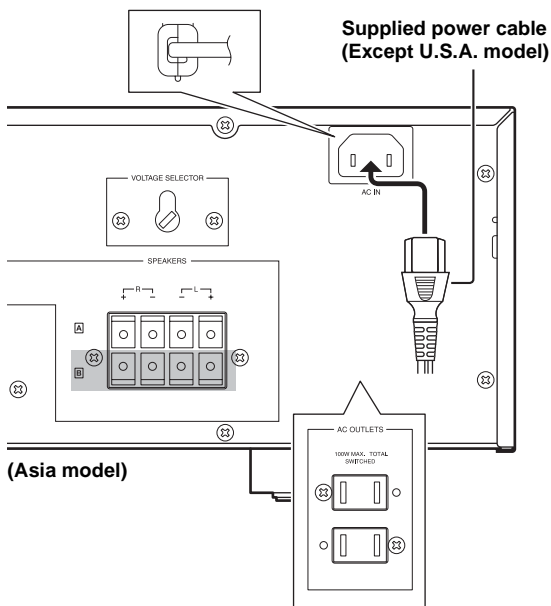
Connect to REMOTE (Direct) and GND.

Connect to the infrared diode output (open collector) of RMC.

**Note**

By connecting the REMOTE (Direct) to this input, this unit can receive the signal of the REMOTE.

**Power related switch and connections on the rear panel**



The shaded part ( ) is provided for KMA-700 only. The parts in the sub illustrations are provided for U.S.A. model only.

**AC IN (Except U.S.A. model)**

Connect the supplied power cable to AC IN.

**Power cable**

Plug the power cable into the AC wall outlet after all other connections are complete.

**VOLTAGE SELECTOR (Except U.S.A. model)**

VOLTAGE SELECTOR on the rear panel of this unit must be set for your local main voltage BEFORE plugging the power cable into the AC wall outlet.

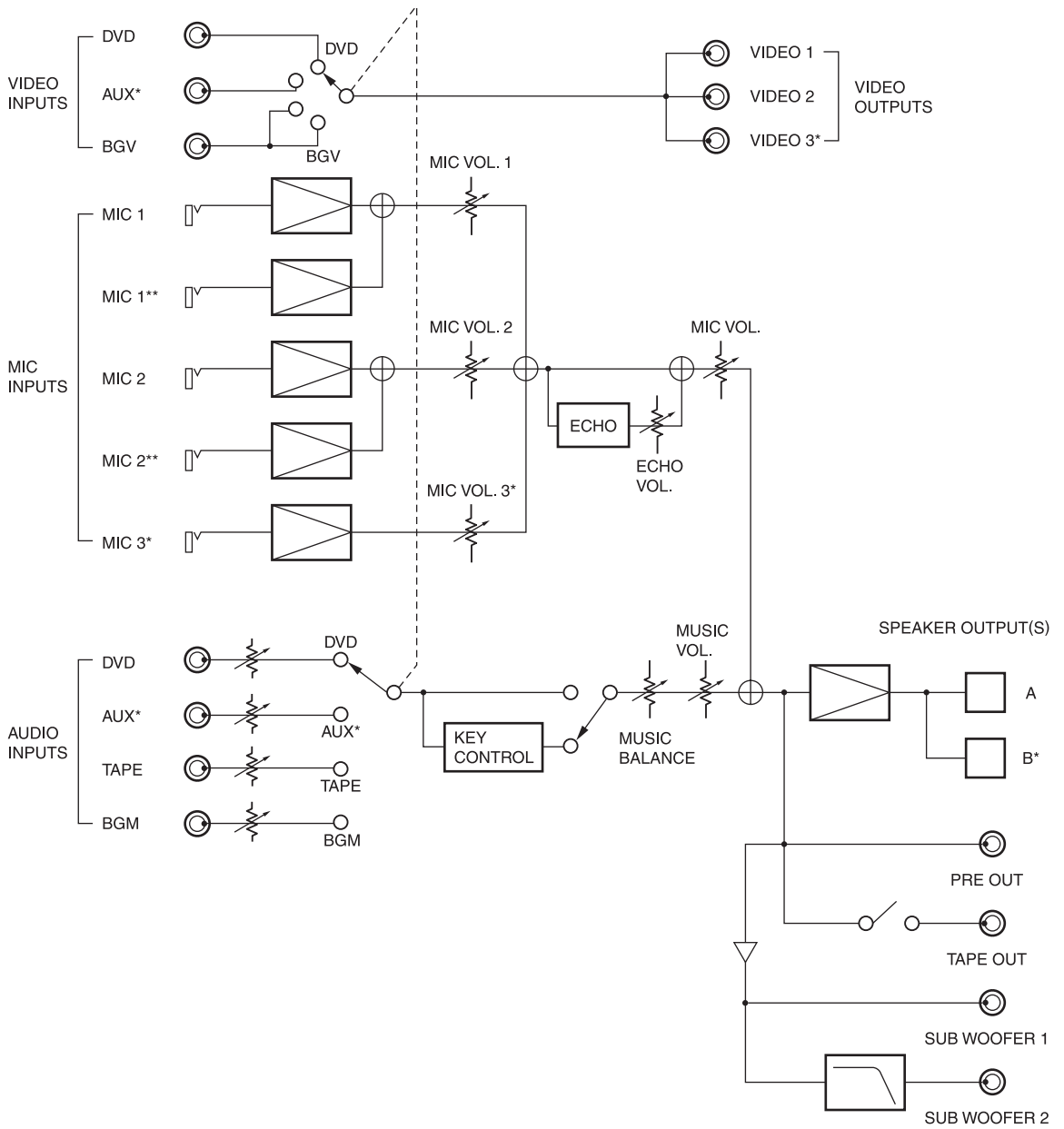
**AC OUTLETS (SWITCHED. U.S.A. model only)**

Use these outlets to connect the power cables from your other components to this unit. The power to AC OUTLETS is controlled by POWER on the front panel of this unit. The outlets supply power to any connected component whenever the power of this unit is turned on. Total power consumption is 100 W.

**Notes**

- Be careful that the total power consumption does not exceed the wattage marked on the rear panel. Do not connect appliances other than system components to the power outlets of this unit.
- Do not connect a TV set to this unit; even if it indicates a power consumption value below the permissible value when the TV power is turned on.

# CONFIGURATION DIAGRAM

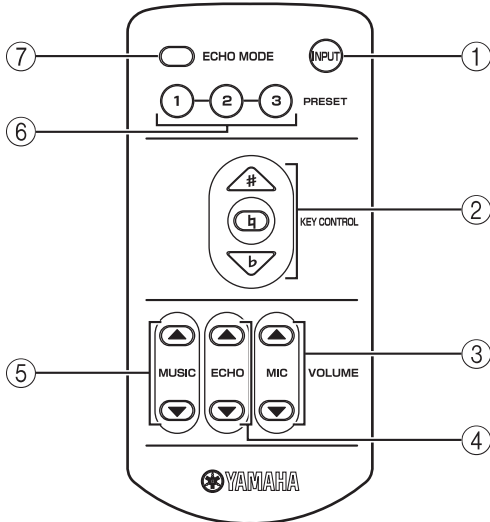


\* KMA-700 only

\*\* Balanced input, on the rear panel

# REMOTE CONTROL

## Names of parts and their functions



### ① INPUT

INPUT is not available in default setting.  
To activate INPUT, refer to “Input mode” on page 14.

### ② KEY CONTROL (▲/□/▼)

Transpose the key of the played music.

### ③ MIC (▲/▼)\*

Adjust the overall volume of the microphones.

### ④ ECHO (▲/▼)\*

Adjust the amount of echo.

### ⑤ MUSIC (▲/▼)\*

Adjust the music volume.

\* The LED on the corresponding control on the front panel blinks during adjustment.

### ⑥ PRESET (1/2/3)

Recall saved preset settings for MIC volume/ECHO amount/MUSIC volume/ECHO MODE.

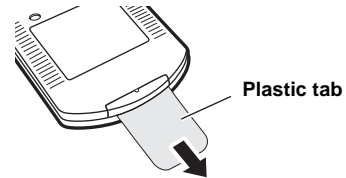
To save current settings of the above, press the desired button (PRESET 1, 2, 3 or KEY CONTROL on the front panel) for 3 seconds. Pressing KEY CONTROL saves settings to PRESET 1. When save is completed, “□” on the KEY CONTROL blinks once. You can save up to 3 presets (PRESET 1/2/3) on this unit. Refer to “Power ON recall” on page 14.

### ⑦ ECHO MODE

Select NORMAL, WIDE or SPACIOUS (KMA-700 only) echo.

## Preparing the remote control

The remote control comes with the battery already installed. Before using the remote control for the very first time, pull out the plastic tab, as shown.

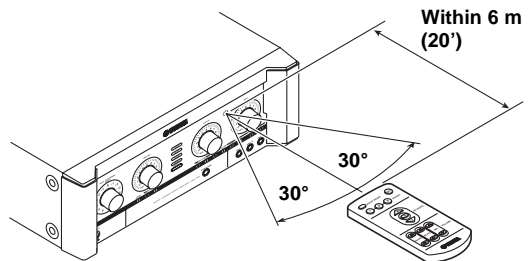


For information on replacing the battery, refer to next section.

## Operation of remote control

### 1. Remote control

The distance between the remote control and the remote sensor of this unit should be within 6 m (20'). Be sure to aim the remote control directly at the remote sensor on the front panel.

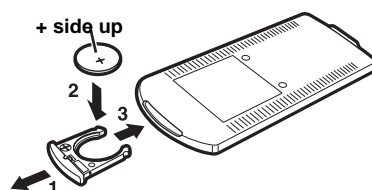


### 2. Loading a battery

The life of the battery used in the remote control is about half a year under normal use. Remove the battery if the remote control is not used for an extended period. When the battery becomes weak, replace with a new CR2025 battery.

To replace the battery:

1. Using a small screwdriver, carefully slide out the battery holder.
2. Remove the expired battery, and place the new CR2025 battery onto the battery holder with the + side facing up.
3. Slide the battery holder into the remote control, and push it so that it clicks shut.



Improper use of batteries may cause a risk of battery leakage and explosion.

Adhere to the following guidelines:

- Do not attempt to recharge the old battery.
- Insert a battery so that the positive (+) and negative (-) poles are positioned as shown.
- Even if the shapes are the same, the voltage of batteries may vary depending on the models. Be careful not to use different model of battery.
- Dispose of the old battery in accordance with local regulations.

**Information for Users on Collection and Disposal of Old Equipment and Used Batteries**



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.



For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.



**[Information on Disposal in other Countries outside the European Union]**

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

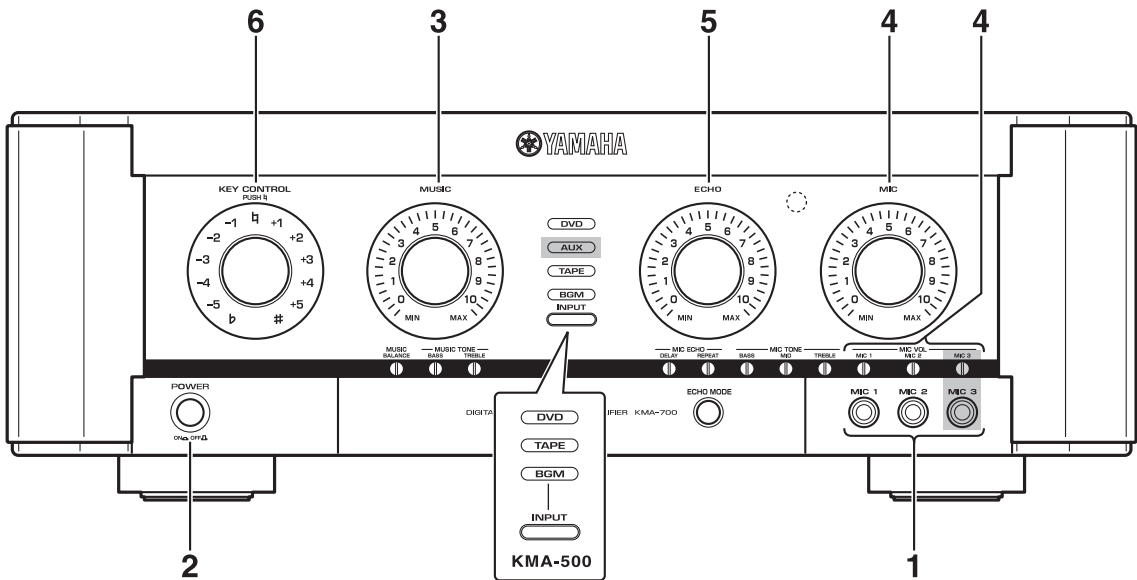
**Pb**

**Note for the battery symbol (bottom two symbol examples):**

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.



# GENERAL OPERATION



The shaded part (■) is provided for KMA-700 only.

**1** Connect the required number of microphones.

**2** Set the POWER switches of this unit and other required components to ON.

**3** Play the KARAOKE music source component, and adjust the volume by rotating MUSIC.

The music source is selected automatically in default setting. To set the conditions for selection, refer to "Auto input condition" on page 14. To select the music source manually, refer to "Input mode" on page 14.

**4** Adjust the microphone volume by rotating MIC.

When different microphone volumes are not balanced, adjust MIC VOL using a flathead screwdriver.

**5** Adjust the ECHO amount by rotating ECHO.

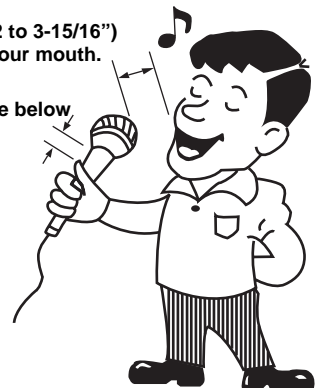
**6** Adjust the key by rotating KEY CONTROL.

## Notes for the proper use of microphones

- Sing into the microphone by holding it at a distance of 5 to 10 cm (2 to 3-15/16") from your mouth.
- To ensure clear sound, grasp the microphone below the mic head.
- Do not block the lower part of the windscreen. This will disturb proper voice reproduction with unclear bass. Howling also tends to occur in such cases.

5 to 10 cm (2 to 3-15/16")  
away from your mouth.

Grasp the microphone below  
the head.



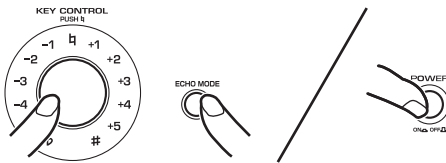
# SETUP MODE

You can set the following menu in Setup mode:

- Power ON recall
- Input mode
- Auto input condition
- Enable remote
- Remote mode
- MIC/MUSIC max level
- MIC/MUSIC volume select
- Initializing

To set each menu above, set the corresponding controls as shown in the "Setup mode table" on page 15 according to the following procedure.

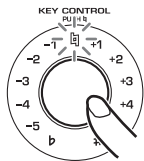
## 1 To enter Setup mode, turn off the main unit and press POWER while pressing KEY CONTROL and ECHO MODE.



## 2 Set KEY CONTROL and MUSIC according to the "Setup mode table" on page 15 to set desired menus and items.

For Auto input condition, select the desired source before selecting the item.  
Set all settings you want to change before moving to step 3.

## 3 Press KEY CONTROL to enter the settings.



"h" blinks once when the settings are entered.

## 4 To terminate Setup mode, turn off the main unit.

### ■ Menus in Setup mode

#### 1. Power ON recall

Select Last memory or Preset, to recall the settings of MIC volume/ECHO amount/MUSIC volume/ECHO MODE when the unit is turned on.

Last memory\*: The settings when the unit was turned off last are recalled.

Preset: The settings saved to PRESET 1 are recalled.

#### 2. Input mode

Set Input mode to Auto or Manual.

Auto\*: The input source is set automatically.

Manual: The input source is selected by INPUT.

Source is selected in order of DVD, AUX\*\*, TAPE, BGM.

#### 3. Auto input condition

Set the conditions for each source (DVD, AUX\*\* and TAPE) for Auto Input mode described in 2.

Audio\*: The source is switched based on audio signal.

Video: The source is switched based on video signal.

Audio/Video: The source is switched based on audio or video signal.

For only this menu, select desired source by INPUT before selecting the desired item.

#### 4. Enable remote

Enable or disable remote control.

Enable\*: The remote control is enabled.

Disable: The remote control is disabled.

#### 5. Remote mode

Set the light receiving device.

Front&Ext.\*: Both the front panel and external remote control satellite receive the signal from the remote control.

Front: Only the front panel receives the signal.

Ext.: Only the external remote control satellite receives the signal.

#### 6. MIC/MUSIC max level

Set the maximum volume of MIC and MUSIC.

10\*: No setting.

9 to 3: The maximum volume is set to the level indicated (2 to 0 cannot be set).

#### 7. MIC/MUSIC volume select

Select how MIC and MUSIC volumes increase/decrease (i.e., the volume curve) when the controls are turned.

Pattern 1\*: Steep curve

Pattern 2: Less steep curve

Pattern 3: Least steep curve, and is most suitable for fine adjustment.

#### 8. Initializing

Reset all the settings set in Setup mode to the defaults.

Cancel: Initializing is not executed.

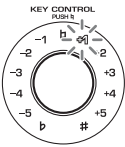










Initialize: Initializing is executed.

When pressing KEY CONTROL with MUSIC set to 3, Initializing is executed.

\* Default setting

\*\* KMA-700 only

■ Setup mode table

Menu	KEY CONTROL	Items/MUSIC		
1. Power ON recall	<p style="text-align: center;">+1</p> 	Last memory: 1	Preset: 2	
2. Input mode	<p style="text-align: center;">+2</p> 	Auto: 1	Manual: 2	
3. Auto input condition	<p style="text-align: center;">+3</p> 	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>KMA-700</p> <p>← DVD →</p> <p>← ALX →</p> <p>← TAPE →</p> <p>← BGM →</p> <p>← INPUT →</p> </div> <div style="width: 45%;"> <p>KMA-500</p> <p>← DVD →</p> <p>← TAPE →</p> <p>← BGM →</p> <p>← INPUT →</p> </div> </div> <p style="text-align: right;"><b>Select desired source by INPUT.</b> Example: DVD</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Audio: 1</p>  </div> <div style="text-align: center;"> <p>Video: 2</p>  </div> <div style="text-align: center;"> <p>Audio/Video: 3</p>  </div> </div>		
4. Enable remote	<p style="text-align: center;">+4</p> 	Enable: 1	Disable: 2	
5. Remote mode	<p style="text-align: center;">+5</p> 	Front&Ext.: 1	Front: 2	Ext.: 3
6. MIC/MUSIC max level	<p style="text-align: center;">-1</p> 	No setting: 10	Set to the indicated level: 9 to 3	
7. MIC/MUSIC volume select	<p style="text-align: center;">-2</p> 	Pattern 1: 1	Pattern 2: 2	Pattern 3: 3
8. Initializing	<p style="text-align: center;">-5</p> 	Cancel: 1	Initialize: 3	

# TROUBLESHOOTING

If problems should occur, check the following table for simple remedies.  
If the problem still cannot be solved, please consult your dealer.

Problems	Possible causes	Solutions
<b>No speaker sound is output at all.</b>	POWER is set to OFF.	Set POWER to ON.
	The power cable is unplugged.	Plug the power cable securely into the AC wall outlet.
	MUSIC is in the lowest position.	Adjust MUSIC.
	The wrong music source is selected when Input mode is set to Manual in Setup mode.	Select the correct music source with INPUT or set Input mode to Auto in Setup mode. Refer to "Input mode" on page 14.
	The sound is cut off due to a temperature rise in the unit.	Turn the power off, then leave the unit alone for cooling.
<b>No sound is output from one of the speakers.</b>	MUSIC BALANCE is turned fully to one speaker.	Set the control to the center position.
	One of the speaker cords is disconnected.	Insert the cord securely into the terminals.
<b>No microphone sound is output.</b>	The microphone plug is not fully inserted.	Insert the plug securely into the jack.
	The switch on the microphone is set to OFF.	Set the switch on the microphone to ON.
	The corresponding MIC VOL or MIC controls are in the minimum position.	Adjust the control.
	The microphone is too far from your mouth, or the microphone handling is incorrect.	Refer to the user's manual supplied with your microphone.
<b>The remote control does not work, or does not function properly.</b>	The remote control is too far away or tilted too much.	The remote control will function within 6 m (20') and no more than 30 degrees off-center from the front panel.
	Direct sunlight or lighting is striking the remote control sensor of this unit.	Reposition this unit.
	Enable remote is set to Disable in Setup mode.	Set Enable remote to Enable in Setup mode. Refer to "Enable remote" on page 14.
	The wrong Remote mode is set in Setup mode.	Set the correct Remote mode in Setup mode. Refer to "Remote mode" on page 14.
	The battery is weak.	Replace with a new CR2025 battery. Refer to "Loading a battery" on page 11.
	When INPUT does not work, Input mode is set to Auto.	Set Input mode to Manual in Setup mode. Refer to "Input mode" on page 14.

# MAINTENANCE

When the set gets dirty, wipe it with a soft, dry cloth.

Never use alcohol, thinner, benzene, insecticide or other volatile agents, for they may damage the surface paint or gloss of the set.

Also do not wipe the set with a chemical cloth or leave it on the set for a long period, for the surface finish may deteriorate or the paint may be stripped off.

## AFTER-SALES SERVICING

- If this unit is found to be defective, your local dealer will repair or replace defective parts at charge on request.
- Before requesting a repair from your local dealer, see the “TROUBLESHOOTING” for possible remedies.

### For the dealer:

If the customer requests after-sales service, please first check the following points:

- Confirm the details of any accident.
- Check out all cables and connections.
- Confirm cautions regarding operation and instructions on using the system with your customer.

If the unit is found to be defective and it is difficult to repair, bring the defective unit to your nearest Yamaha authorized service center.

## KARAOKE ETIQUETTE



The KARAOKE performance you enjoy may be disturbing to others. When performing KARAOKE, be sure to consider your neighbors.

You can control the volume of KARAOKE. Remember that even small sounds travel easily during quiet nights, so be especially careful during KARAOKE performances at night. We recommend consideration for your neighbors by closing your windows.

## COPYRIGHT

- Broadcasting and music sources such as recorded music tapes, DVDs, video tapes, CDs and so on are strictly protected under copyright law.
- You require permission from the copyright holder to use, distribute, or rent these music sources for commercial use, or sell dubbed media to other people; except when enjoying these sources by yourself.

# SPECIFICATIONS

## AMPLIFIER

- Maximum output  
[KMA-700]  
(1 kHz, 8 Ω, 10% THD)..... 120 W+120 W  
[KMA-500]  
(1 kHz, 8 Ω, 10% THD)..... 100 W+100 W
- Total harmonic distortion  
[KMA-700]  
(1 kHz, 93 W, 8 Ω)..... 1%  
[KMA-500]  
(1 kHz, 76 W, 8 Ω)..... 1%
- Audio input (Sensitivity/Impedance)  
DVD, TAPE, AUX (KMA-700 only)..... 200 mV/42 k Ω  
BGM..... 200 mV/42 k Ω  
MIC..... 6.0 mV/20 k Ω
- Audio output (Output level/Output impedance)  
PRE OUT..... 1.0 V/1.2 k Ω  
SUBWOOFER..... 2.0 V/1.2 k Ω
- Frequency response  
MUSIC..... 20 Hz to 15 kHz, +1.5/-0.5 dB  
MIC..... 40 Hz to 15 kHz, +1.0/-0.5 dB
- Tone control characteristics  
MUSIC  
BASS..... ±12 dB (100 Hz)  
TREBLE..... ±12 dB (10 kHz)  
MIC  
BASS..... ±12 dB (100 Hz)  
MID..... ±12 dB (1 kHz)  
TREBLE..... ±10 dB (10 kHz)
- Speaker impedance  
[KMA-700]  
(1 system only A or B)..... 4 Ω to 8 Ω / 8 Ω to 16 Ω  
(2-system operation A and B)..... 8 Ω to 16 Ω  
[KMA-500]  
(1 system only)..... 8 Ω to 16 Ω
- Key control range..... ±5 steps, ±2.5 tones
- Video input  
(Sensitivity/Input impedance)..... 1 Vp-p/75 Ω
- Video output  
(Output level/Impedance)..... 1 Vp-p/75 Ω

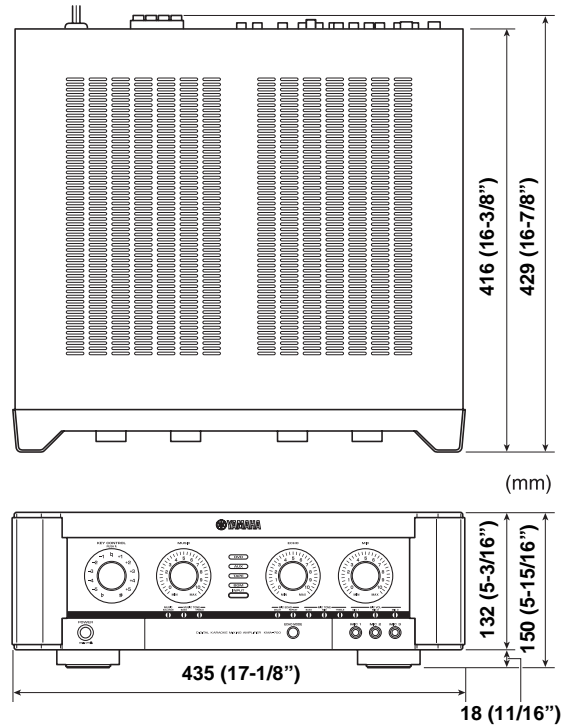
## POWER SUPPLY, ETC.

- Supply voltage  
Asia and Other models..... AC 110/120/220/230-240 V 50/60 Hz  
U.S.A. model..... AC 120 V 60 Hz
- Power consumption  
[KMA-700]  
(IEC 60065)..... 190 W  
(Idling)..... 25 W  
[KMA-500]  
(IEC 60065)..... 165 W  
(Idling)..... 25 W
- AC OUTLETS (U.S.A. model only)  
SWITCHED (100 W max.)..... 2
- Dimensions (W × H × D)..... 435 mm × 150 mm × 416 mm  
(17-1/8" × 5-15/16" × 16-3/8")
- Weight..... 10 kg  
(22 lbs. 1 oz.)

## ACCESSORIES

- Owner's manual..... 1
- Remote control..... 1
- Power cable (Except U.S.A. model)..... 1

## DIMENSIONS



Design and specifications are subject to change without notice.

