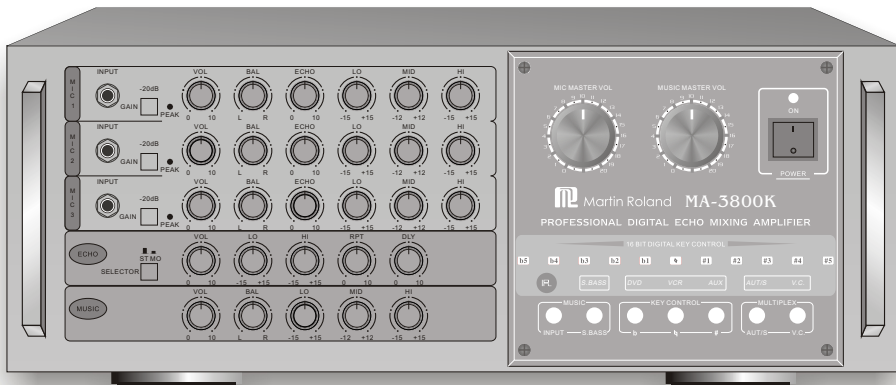




PROFESSIONAL KARAOKE SYSTEM

# MA-3800K



PROFESSIONAL DIGITAL MIXING AMPLIFIER



# Operation Manual

PENGOPRASIAN MANUAL

# SAFETY INSTRUCTIONS

	<b>CAUTION</b> <b>RISK OF ELECTRIC SHOCK, DO NOT OPEN!</b>	
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

## 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.

## **WARNING:**

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

- 1 Read instructions- All the safety and operating instructions should be read before the unit is operated.
- 2 Retain Instructions- The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings- All warnings on the units and in the operating instructions should be adhered to.
- 4 Follow Instructions- All operations and other instructions should be followed.
- 5 Water and Moisture- The unit should not be used near water- for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
- 6 Carts and Stands - The unit should be used only with a cart or stand that is recommended by the manufacturer.
- 6A A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn. 
- 7 Grounding or Polarization- Precautions should be taken so that the grounding or polarization is not defeated.
- 8 Ventilation - The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, the unit should not be situated on a bed, sofa, rug, or similar surface, that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- 9 Heat- The unit should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.
- 10 Power Sources- The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
- 11 Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit the unit.
- 12 Cleaning- The unit should be cleaned only as recommended by the manufacturer.
- 13 Nonuse Periods- The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.
- 14 Object and liquid Entry- Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the unit.
- 15 Damage Requiring Service - The unit should be serviced by qualified service personnel when:
  - A. The power supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the unit; or
  - C. The unit has been exposed to rain; or
  - D. The unit does not appear to operate normally or exhibits a marked change in performance.
  - E. The unit has been dropped, or the cabinet damaged.
- 16 Servicing - The user should not attempt to service the unit beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.
- 17 Power Lines - An outdoor antenna should be located away from power lines.

## **IMPORTANT**

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

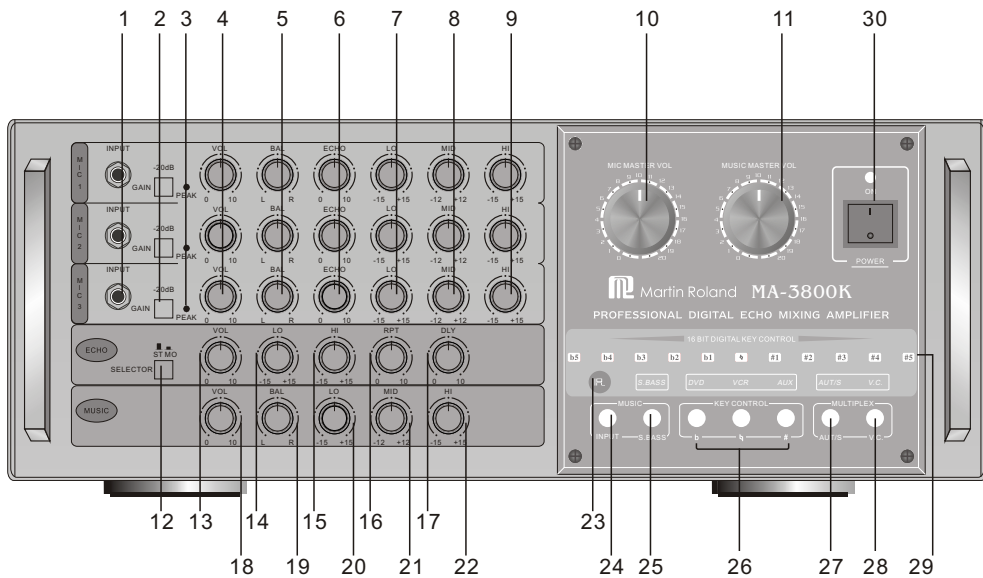
Model:

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. OPERATING GUIDE



## MICROPHONES

1. Microphone input sockets
2. Microphone signal attenuators
3. Auto-gain level indicators
4. Microphone volume control
5. Microphone balance control
6. Echo volume control
7. Microphone bass adjust
8. Microphone mid-range adjust
9. Microphone treble adjust

## MASTER VOLUME

10. Microphone master volume control
11. Music master volume control

## ECHO

12. Stereo or mono selector
13. Master echo volume control
14. Echo low frequency adjust
15. Echo high frequency adjust

16. Echo repeat speed control
17. Echo delay time control

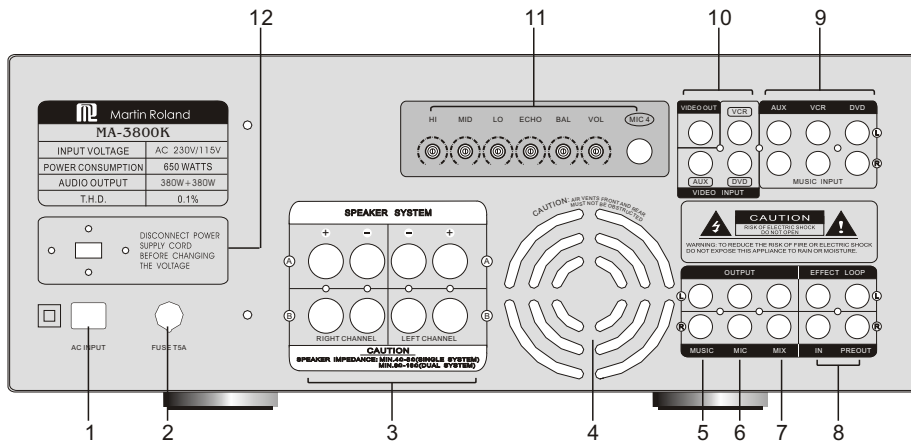
## MUSIC

18. Music signal volume control
19. Music balance control
20. Music bass adjust
21. Music mid-range adjust
22. Music treble adjust
23. Remote control sensor
24. Input source selector
25. Super Bass switch
26. Key control
27. Auto singing-mate switch (Match with Multiplex karaoke media)
28. Vocal cancel switch (Match with Multiplex karaoke media)
29. Key Display

## POWER ON/OFF

30. Power ON/OFF switch

## 2.FUNCTION OF REAR PANEL



### 1. AC POWER SUPPLY

Before plug-in the power supply, be sure to use the correct voltage of 230V 50Hz/115V 60Hz  $\pm 10\%$ .

### 2. AC POWER FUSE HOLDER

Use T5A fuse.

### 3. SPEAKER SYSTEMS TERMINAL

- ①. Do not let the bare speaker wires touch each other or any other metal part as this could damage this unit and /or speakers.
- ②. Make sure that the polarity of the speaker wires is correct. that is: + and - marking are observed. If these wires are reversed, the sound will be unnatural and will lack bass.
- ③. When one speaker system is used, speakers with an impedance of 4 to 8 ohms should be connected for used as main amplifier output terminals. Be careful when using two pairs speaker system at the same time, since use of speakers with an impedance of less than 8 ohms will lead to damage, should use speakers with an impedance of 8 ohms to 16 ohms.

### 4. HEATSINKING BLOWER OUTLET

Air vents front and rear must not be obstructed.

### 5. MUSIC OUTPUT TERMINAL

The terminal outputs music sound matched with the effect of music tone adjust, these sound output has not through master music volume control. Use for connect to an external power amplifier or powered sub-woofer.

### 6. MIC SIGNAL OUTPUT

The terminal outputs microphone's sound matched with the effect of mike tone adjust, these sound

output has not through master microphone volume control. Use for connect to an external sound processor or promixer.

### 7. MUSIC & MIC SIGNAL MIX OUTPUT

The terminal outputs music and microphone sound, control the volume by master volume controller. The music sound matched with the tone effect, and the microphone sound matched with mike tone and echo effect.

### 8. SOUND-EFFECT DEVICE INPUT/OUTPUT

Use this terminal when connecting external sound effect devices such as graphic equalizer.

### 9. MUSIC SOURCE INPUT

The terminal use to connect sound source, such as DVD VCR/ KARAOKE PLAYER AUX etc. The original setting on DVD position.

### 10. VIDEO INPUT/OUT JACKS

Connect input jack with the video output of DVD VCR or AUX etc. And connect output jack with the video input of the monitor/TV.

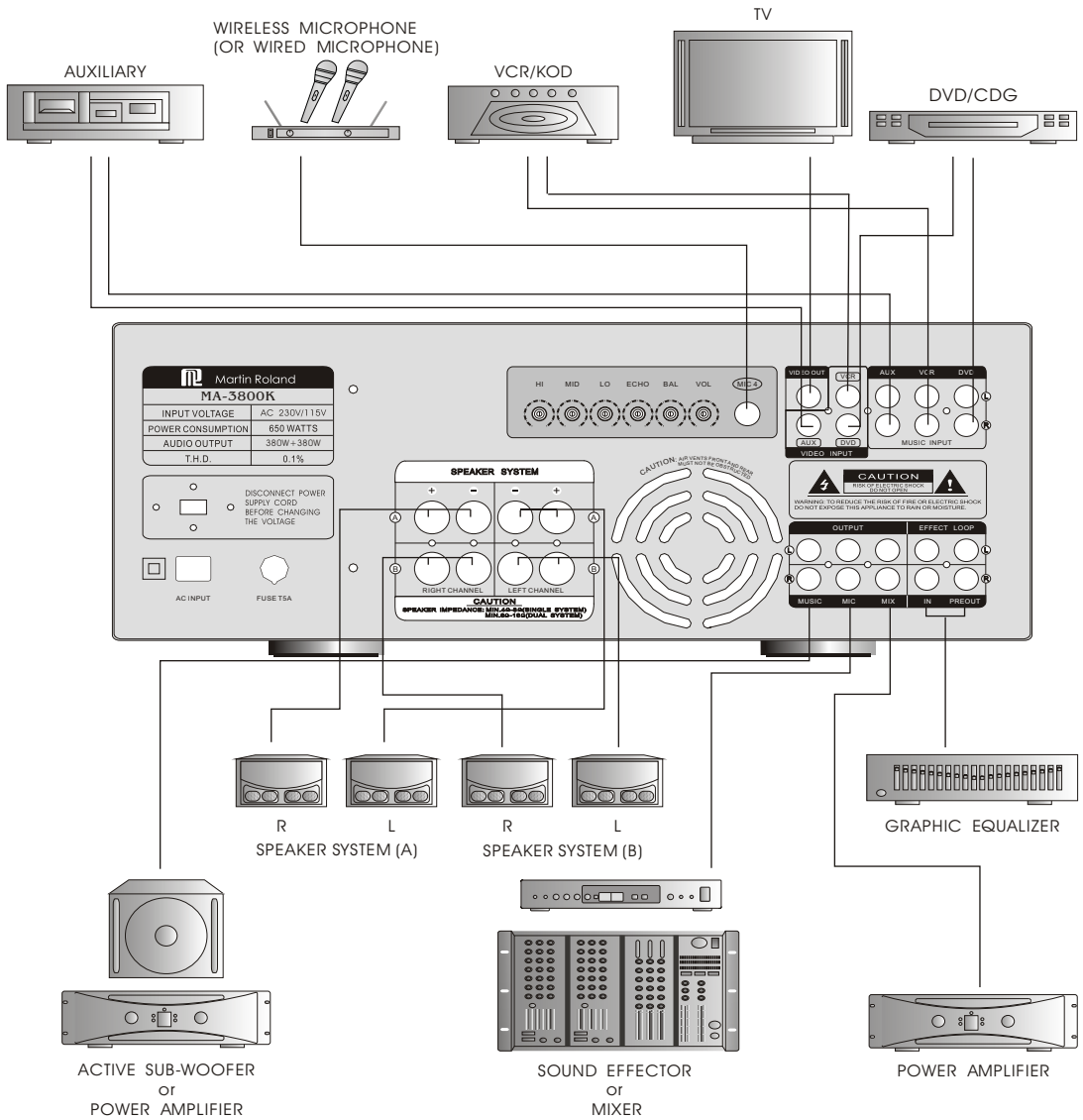
### 11. MICROPHONE INPUT ON REAR PANEL

Independent microphone jack with tone /echo / balance / volume adjustment for wired or wireless microphone use.

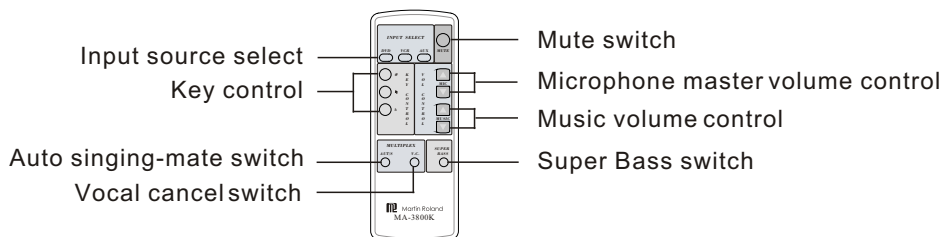
### 12. DUAL VOLTAGE SELECTOR

Before turn on power switch be sure the AC voltage selector is switched in proper position to related AC voltage input.

### 3.CONNECTING GUIDE



### 4.FUNCTION OF REMOTE CONTROLLER


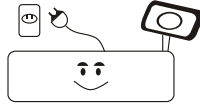
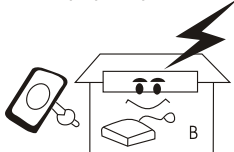


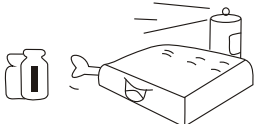
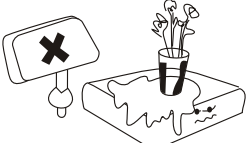
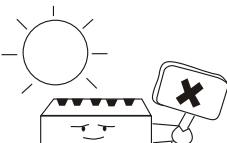
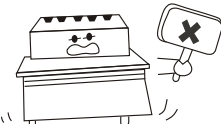


## 5.SPECIFICATIONS

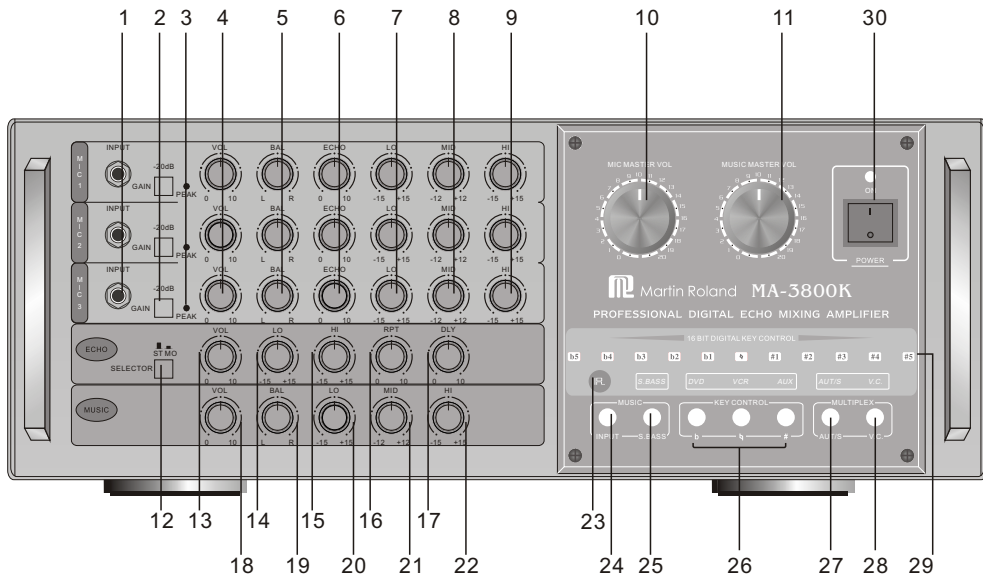
Audio output max. ....	380W + 380W
Mic input sensitivity .....	15mV
External devices sensitivity .....	250mV
Signal / Noise ratio ( with IHF A Fiter ) .....	90dB
T.H.D. ( 1 kHz, AUX 150mV INPUT ) .....	0.1%
Frequency Response .....	25Hz~20KHz
Mic. Tone adjustment .....	80Hz±15dB 3.5KHz±5dB 12KHz±15dB
Echo tone adjustment .....	80Hz±15dB 12KHz±15dB
Power source .....	AC 230V 50Hz 115V 60Hz
Electricity consumption .....	650W
Net Weight .....	15KGS
Dimension(W×H×D) .....	430×156×335mm

※ Specifications and features are subject to changed without notice.

## 6.CAUTION

<p>Be careful when open, otherwise electric shock or serious damage may be made to the product.</p> 	<p>Unplug this product from the wall outlet when not use for a long period of time</p> 	<p>Unplug this product from the wall outlet during lightning</p> 
<p>Objects do not fall into the enclosure.</p> 	<p>Arrange power cords safely. Do not hold the cord when pulling out from the wall outlet. Pull out holding plug.</p> 	<p>This product must not touch chemicals such as benzene, thinner or alcohol. This may result in discoloration.</p> 
<p>Do not use this product in wet place.</p> 	<p>This product should be installed in well-ventilated and cool place.</p> 	<p>This product should be installed flatly and should not be shaken.</p> 

# 1. PETUNJUK PENGOPRASIAN



## MICROPHONES

1. Microphone Soket Input
2. Pengecil Signal Input
3. Petunjuk Level Gain Indikator
4. Volume Kontrol Microphone
5. Kontrol Balance
6. Kontrol Echo
7. Kontrol Bass
8. Kontrol Vocal
9. Kontrol Treble

## MASTER VOLUME

10. Kontrol Utama Volume Microphone
11. Kontrol Utama Volume Musik

## ECHO

12. Memilih Stereo / Mono
13. Volume Echo
14. Kontrol Bass

15. Kontrol Treble
16. Kontrol untuk Pengulangan /repeat
17. Kontrol Waktu Echo

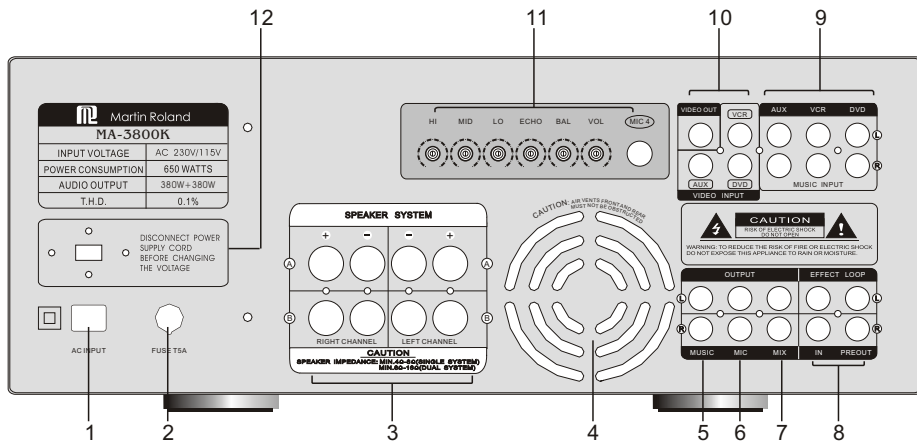
## MUSIC

18. Volume Kontrol Signal Musik
19. Kontrol Balance
20. Kontrol Bass
21. Kontrol Vocal
22. Kontrol Treble
23. Sensor Remote Kontrol
24. Input chanel
25. Tombol Super Bass
26. Key Kontrol
27. Tombol Otomatis Cancel Vocal ( Multiplex media Karaoke )
28. Tombol Cancel Vocal ( Multiplex media Karaoke )
29. Key Display

## POWER ON/OFF

30. Tombol Power

## 2. PETUNJUK PENGOPRASIAN PANEL BELAKANG



### 1. AC Power Supply

Pastikan tegangan AC input 220-230 Volt 50Hz atau 115V 60Hz  $\pm$  10%

### 2. AC Power Fuse

Menggunakan sekering T5A.

### 3. Terminal Speaker System

- Pastikan kabel yang dipasang dari Speaker ke amplifier dalam keadaan aman ( tidak terkelupas) untuk menghindari terjadinya konsleting.
- Pastikan kabel speaker di pasang ke amplifier sesuai dengan polarity (kutub + dan kutub - )
- Pastikan impedance speaker system sesuai dengan impedance speaker amplifier, Jika tidak sesuai dapat mengakibatkan kerusakan ( Impedance 8  $\Omega$  ).
- Ketika menggunakan dua speaker sistem, impedance nya jangan rendah dari 8  $\Omega$  se tiap speaker. Jika tidak amplifier akan mengalami kerusakan.

### 4. Tempat Udara Kipas Keluar

Tempat ini jangan di tutup atau latak barang barang di sini.

### 5. Jack Output Musik Terminal

Jack output musik terminal ini mengeluarkan suara musik hanya dari amplifier tanpa musik tone adjust dan tidak melalui master volume control.

### 6. Jack Output Signal Mic

Pengaturan jack output signal mic tanpa melalui master volume mic tetapi melalui pengaturan tone mic

### 7. Terminal Mix Output

Terminal mix output ini mengeluarkan suara musik dan mic melalui pengaturan tone dan Master volume ( Musik dan Mic ).

### 8. Sound Effect Input/ Output

Jack ini untuk dihubungkan dengan alat lain seperti equalizer.

### 9. Input Musik

Jack ini untuk dihubungkan dengan DVD, VCR, Aux , dll (L/R).

### 10. Jack Video Input/output

Jack In untuk dihubungkan dengan DVD, VCR, AUX, dll ( VIDEO), Jack Out di Hubungkan ke TV.

### 11. Input Microphone Bagian Belakang

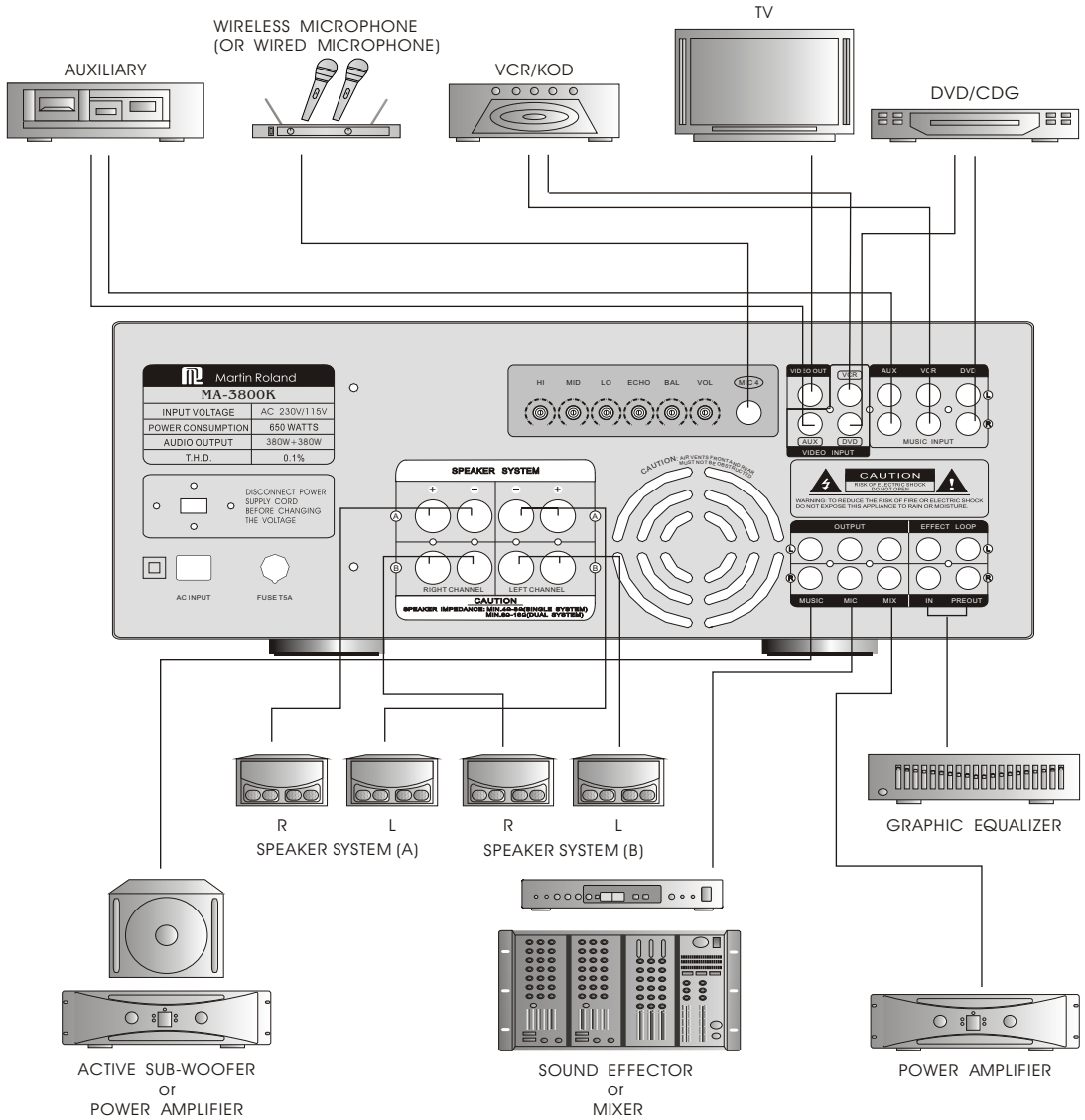
Input microphone ini memiliki pengaturan tone, /echo/balance/volume sendiri untuk mengatur suara dari microphone kabel atau microphone wireless yang digunakan.

### 12. Dua Pilihan Tegangan

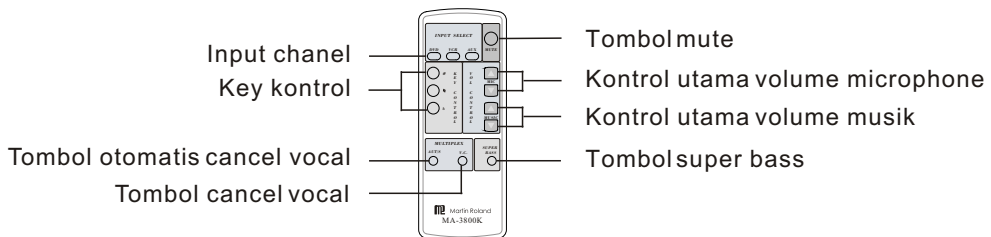
Sesuaikan posisi pilihan tegangan dengan sumber listrik.



### 3. PETUNJUK PEMASANGAN



### 4. PETUNJUK REMOTE CONTROL


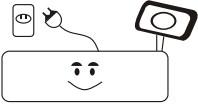
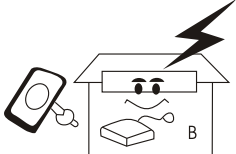


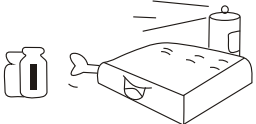
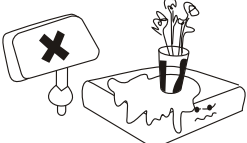
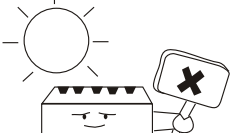
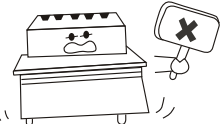


## 5. SPESIFIKASI

Daya Audio	_____	380W + 380W
Mic Input Sensitivity	_____	15mV
External devices sensitivity	_____	250mV
Signal / Noise ratio ( with 1HF A filter )	_____	90dB
T.H.D ( 1 kHz, Aux 150mV Input )	_____	0.1%
Frequency Keluaran	_____	25Hz ~ 20KHz
Pengaturan Mic	_____	80Hz ± 15dB 3.5KHz ± 5dB 12KHz ± 15dB
Pengaturan Echo	_____	80Hz ± 15dB 12KHz ± 15dB
Tegangan Input Power	_____	AC 230V/115V
Daya Konsumsi Listrik	_____	650 W
Berat Bersih	_____	15KGS
Dimensi (mm)	_____	430 (W) x 156(H)x335 (D)

\*spesifikasi dapat berubah tanpa pemberitahuan.

## 6. PERHATIAN

<p>Berhati-hati jika ingin membuka produk karena dapat mengakibatkan konsleting atau kerusakan.</p> 	<p>Jika tidak digunakan sebaiknya jangan di hubungkan ke listrik.</p> 	<p>Jangan di hubungkan dengan listrik jika ada petir.</p> 
<p>Jangan menjatuhkan benda logam ke dalam amplifier.</p> 	<p>Jika mencabut kabel power, cabut konektornya, Jangan kabelnya.</p> 	<p>Jika ingin membersihkan produk menggunakan kain yang bersih dan kering, Jangan menggunakan bensin, alkohol, atau tiner.</p> 
<p>Jangan meletakkan Produk pada tempat basah.</p> 	<p>Letakkan produk ditempat yang cukup udara dan sejuk.</p> 	<p>Letakkan produk ditempat yang aman, tidak tegang.</p> 



MA-3800K  
DIGITAL ECHO MIXING AMPLIFIER

Martin Roland is constantly striving to maintain the highest quality and standards.  
As a result of these efforts, modifications may be made to this product without notice.



PROFESSIONAL KARAOKE SYSTEM