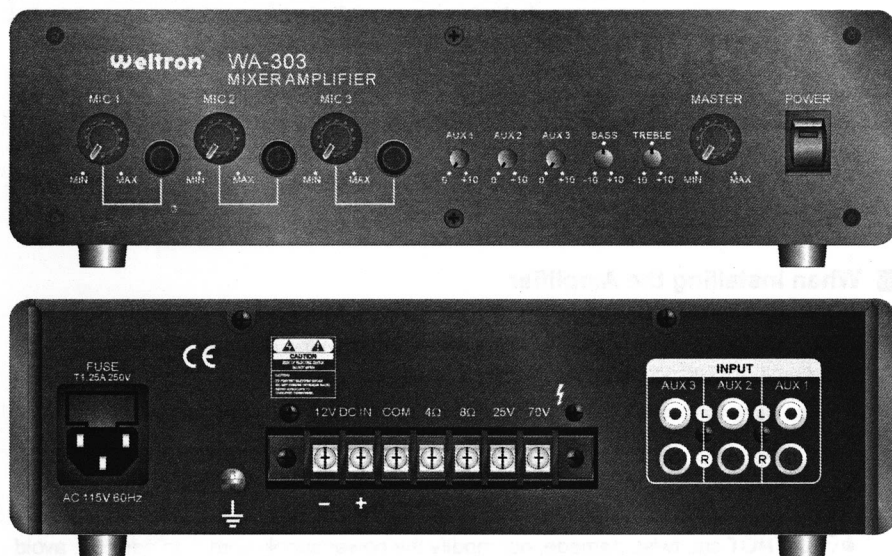


USER MANUAL

WA-303

MIXER AMPLIFIER





1. Security Precautions

- ◎ Carefully to **READ** the instruction in this manual before use.
- ◎ Certainly to **OBSERVE the INSTRUCTION** in this manual regard convention of safety symbols and messages
- ◎ Please **KEEP** this user **MANUAL** nearby for anytime reference.

Safety symbol and Message Conventions

Below-described safety symbols and messages are to prevent bodily injury and property damage. Before operating the amplifier, read this manual first so you completely knowing the potential safety hazard and understanding the meaning of the safety symbols and messages.

 WARNING	Indicates a potentially hazardous situation, which, if mishandled, could result in death or serious body injury, and/or property damage.
 CAUTION	Indicates a potentially hazardous situation, which, if mishandled, could result in moderate or minor body injury, and/or property damage.



■ When Installing the Amplifier

- **DO NOT** installing or mounting the amplifier in unstable locations, such as on the rickety table or the slanted surface. It may result in the amplifier falling down and causing body injury and/or property damage.
- **Be sure to ground** to the safety ground (earth) terminal to avoid electric shock. Never to ground to a gas pipe for tragic disaster may occur.
- Use the amplifier only with the voltage specified on the amplifier. Using the voltage higher than specified may cause fire or electric shock.
- **DO NOT** cut, twist, damage, nor modify the power supply cord. In addition, avoid using the power cord close to heaters, and don't place heavy object, including the amplifier itself, on the power cord, for it may cause fire or electric shock.
- **DO NOT** expose the amplifier to rain or the environment where it may be splashed by water or other liquids, for doing so, it may cause fire or electric shock.

■ When using the Amplifier

- When found following irregular situation during amplifier is in use, immediately switch off the power, disconnect the power supply plug from the AC outlet. Don't try to operate the amplifier again. Contact your local dealer to check the amplifier.
- ✓ The amplifier falls.
- ✓ Amplifier is malfunction.
- ✓ Water or any metallic object gets into the amplifier.
- ✓ The smoke or strange smell coming from the amplifier.
- ✓ The power supply cord is damaged, such as exposure of the core, disconnection etc..
- **DO NOT** put cups, bowls, or other containers with liquid or metallic object in it on the top of the amplifier. If they spill accidentally into the amplifier, it may result in fire or electric shock.
- **DO NOT** touch the power supply plug during thundering and lightning, for it may result in electric shock.
- **DO NOT** insert or drop the metallic objects or flammable materials into the ventilation slots of the amplifier, for it may result in fire or electric shock.
- **DO NOT** open nor remove the amplifier cover to prevent fire or electric shock, for there are high voltage components inside the amplifier.



■ When Installing the Amplifier

- **DO NOT** remove nor plug in the power supply plug with wet hands, for it may cause electric shock.
- When unplug the power supply cord, be sure to grasp the power supply plug. **DO NOT** pull on the cord itself. Operating the amplifier with damaged power supply cord may cause fire or electric shock.
- **Avoid** installing the amplifier in humid or dusty places, the area exposed to the direct sunlight, locations generating smoke or steam, or the spot near the heaters. It may result in fire or electric shock.
- When moving the amplifier, be sure to remove its power supply cord from the wall outlet. Moving the amplifier with the power cord connected to the outlet may cause damage to the power cord, and resulting in fire or electric shock. When removing the power cord, be sure to grasp its plug to pull.
- **DO NOT** block the ventilation slots of the amplifier chassis. It will cause the temperature rising and result in fire.

■ When Using the Amplifier

- Make sure that the volume control is turned to minimum position before power is switched on. Loud sound produced at high volume when power is switched on may impair hearing.
- **DO NOT** place heavy objects on the amplifier, for it may cause it fall and may result in body injury and/or property damage. Besides, the object itself may cause damaged or body injury.
- **DO NOT** operate the amplifier for the extended period of time with the sound distorting. It is an indication of malfunction, which can cause heat and result in fire.
- Switch the power off, and unplug the power supply plug from the AC outlet for safety purposes, when cleaning or leaving the amplifier unused for 7 days or more. Fire or electric shock may occur.
- If the dust accumulates on the power supply plug or in the wall AC outlet, fire may result in. Clean it periodically. In addition, make sure the plug is inserted in the wall outlet securely.
- Contact your local dealer to clean the dust, if the dust has accumulated in the amplifier for a long period of time. Dust accumulation may result in fire or damage.

2. Description

WA-303 series is the mixer amplifier of output power 30W. There are totally 6 inputs, including 3 microphones, 3 AUX inputs.

For convenient to operate, AUX level control are on the front panel. All other input and output level, volume, and tone controls are on the front. MIC1 has first level VOX priority over other input.

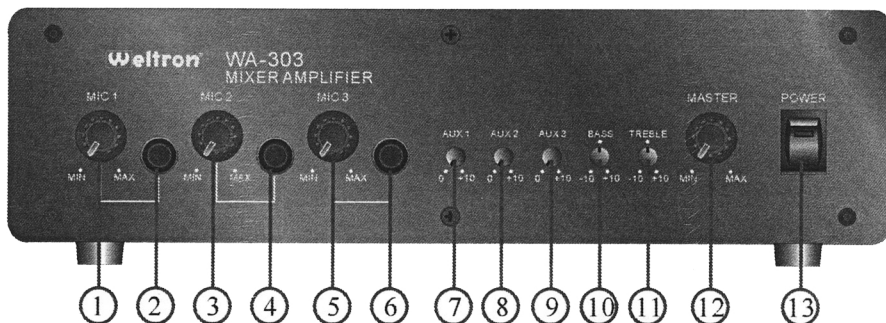
One the rear there is speaker screw terminal, that has low impedance 4 ohm and 8 ohm, and high level 25V and 70V. Choose only one of these output connections to match the speaker. Furthermore, that has record output.

To ensure the amplifier safety, it has speaker short, over temperature, and over load protection. Besides AC power source, MG-***1E series has DC 24V input power screw connector as backup power source.

WA-303 series is ideal and convenient amplifier for the application of multi-input.

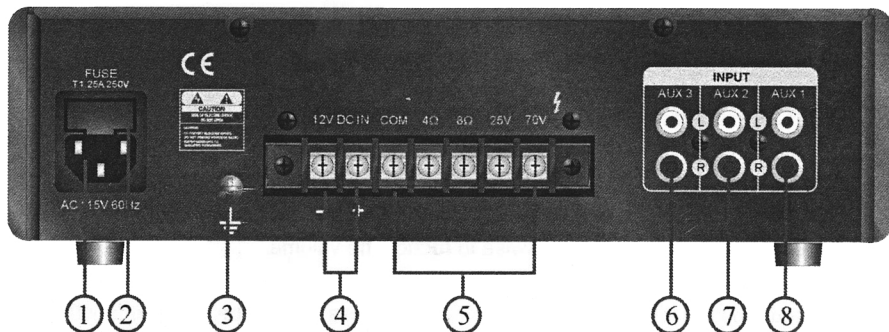
3. Panel Description

FRONT PANEL



1. Mic 1 Level Control	6. Mic 3 Input Jack	11. Master Tone Control (Treble)
2. Mic 1 Input Jack	7. AUX 1 Level Control	12. Master Volume Control
3. Mic 2 Level Control	8. AUX 2 Level Control	13. Power On / Off Switch
4. Mic 2 Input Jack	9. AUX 3 Level Control	
5. Mic 3 Level Control	10. Master Tone Control (Bass)	

REAR PANEL



1. Main Power Input Socket	4. DC 12V Power Supply Terminals	7. AUX 2 Input Jack
2. Power Fuse	5. Speaker Output Screw Terminals	8. AUX 1 Input Jack
3. Earth Connection Screw	6. AUX 3 Input Jack	

4. Power Source

- **AC Power Source**

The supply transformer has been designed for use on either 115Vac.

- **DC Power Source**

- Battery Connection (12Vdc)**

When using external batteries, earth the amplifier via the screw terminal because of the high voltages present. Electrical stability of the system is increased by earthing the case.

NOTE: The connection cable must be fitted with an in-line fuse; suggest to using quick-blow type F4A. When Connect batteries, please ensure correct polarity.

5. Connection

- **Microphone Connection**

Mic1~3 inputs are unbalanced standard 1/4" phone jack on the rear panel.

1/4" Phone Jack Plug (Balanced operation)

Tip : signal (live)

Ring : Signal (Return)

Sleeve : Screen



- **Priority Microphone**

Mic1 input has VOX priority function, which will override all microphone and other inputs signals. It means the voice signal from Mic1 will mute all other input signals.

- **AUX Connection**

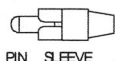
The AUX input, which may be used for connecting other signal sources such as a Radio Tuner, CD or Cassette player. Beside it is level (volume) control. And turn it clockwise to increase the volume or anticlockwise to reduce the volume.

The Aux input sockets are standard RCA stereo jack, sockets are supplied and these are linked together internally, this allows stereo signal source to be used without the need to obtain a special lead. However, you may check with the manufacturer of the signal source to ensure that no damage will occur if the left and right output channels are connected in parallel.

RCA plug connections

Sleeve-Screen

Pin- Signal



● Loudspeaker Connection

There are speaker output screw terminals. Can connection of the standard low impedance of 4Ω or 8Ω loudspeakers, or 25V, or 70V line loudspeaker. Use only one of these output connections for corresponding speaker.

6. Operation

● Level/Volume Control

On the front panel, there are 3 level/volume controls for microphone 1~3, 3 for AUX input. For the output, its own volume, treble, and bass control. Adjust them to what you desired.

7. Technical Specifications

Model	WA-303	
Type	Mixer Amplifier	
Power	Mains Voltage	AC 115V, 60 Hz \pm 10%
Supply	Battery Voltage	DC 12V (MAX 10% deviation)
Power Output	30W	
Total Harmonic Distortion	<= 1% @ 1KHz, rated power	
Sensitivity	Mic 1 ~3 1/4" Phone Jack (Unbalanced) 1.5mV @600 ohm	
	AUX 1~3 RCA Jack (Unbalanced) 200mV @10K ohm	
Frequency Response	50 Hz ~ 15K Hz +/- 3 dB	
Output	70V, 25V, 8 ohm, 4 ohm	
Signal to Noise Ratio	80dB	
Tone	Bass 100 Hz +/-10 dB	
	Treble 10KHz +/-10 dB	
AC Power Consumption	80 W @ RATED POWER	
DC Power Consumption	4A @ RATED POWER	
Dimension	68(H) x 275(W) x 225mm (D)	
Weight	5 KGS	
Mounting	Free Standing or Hang-bracket	