

3G Audio

AK80 **STEREO AMPLIFIER**

User's manual
ED-3G-MA-060724-001

PRECAUTIONS

- Thank you for purchasing our products. Please read this manual carefully for your correct operation of this equipment, and keep this manual for future reference.

- For your safety please don't open the rack to avoid electric shock due to high voltage inside. Consult professionals for maintenance help.
- Keep the instrument off rain or humidity.
- This instrument must work in places with good air flow.
- Please check whether local voltage supply can meet the requirement of this instrument.
- Please pull out the plug when this instrument is not in use for a long time.
- Load must be configured following this manual. Don't let the instrument work overloaded for a long time.

TABLE OF CONTENTS

INTRODUCTION	Features	4
	Signal Cables	4
	Front Panel	5
	Rear Panel	6
INSTALLATION	Speaker Cable Connection	7
	Input Connection	7
	Speaker Cable Connection In Stereo Mode	8
	Speaker Cable Connection In Mono Mode	8
	Speaker Cable Connection In Bridge Mode	8
OPERATION	9
ADDITIONAL DESCRIPTION	Safety Instructions	10
	Technical Specifications	11
	Accessories	11

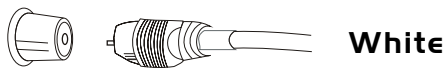
INTRODUCTION

Please read this manual carefully before you begin to use this instrument, and keep the manual for future reference.

FEATURES

- Ultra compact design, convenient for use.
- Completely concealed adjustment button design, effective for status protection.
- Adopting the amplification circuit targeting high sound quality, excellent in expressing musical details.
- Very low distortion.
- Full protection function & high reliability.

SIGNAL CABLES



When connecting with RCA connectors, please ensure that the red connector is plugged in the red socket, and the white connector in the white socket.

1. Bass Adjustment for L/R Channel

Turn this knob clockwise(↻)/anticlockwise(↺) when you feel the bass volume is not enough/too much.

2. HF Adjustment for L/R Channel

Turn this knob clockwise(↻)/anticlockwise(↺) when you feel the HF volume is not enough/too much.

3. Power Supply Indicator

This indicator will be on when the power is turned on.



4. Power Supply Switch

Power will be switched on/off when you press ON/OFF end of this button.

5. R Channel Volume Adjustment (Volume Adjustment for Mono Bridge Mode)

Volume of R Channel (in Mono / Bridge Mode) is increased/reduced by turning this knob clockwise(↻)/anticlockwise(↺) .

6. L Channel Volume Adjustment (Volume Adjustment for Mono Bridge Mode)

Volume of L Channel (in Mono / Bridge Mode) is increased/reduced by turning this knob clockwise(↻)/anticlockwise(↺) .

7. Signal Indicator

The indicator will be on when there is stereo or mono (in bridge mode) signal input.

REAR PANEL

1. Power Supply Socket and fuss box

Power supply: AC220/50Hz, no other option is suitable

Fuss: T250V/1A(Φ5x20mm)

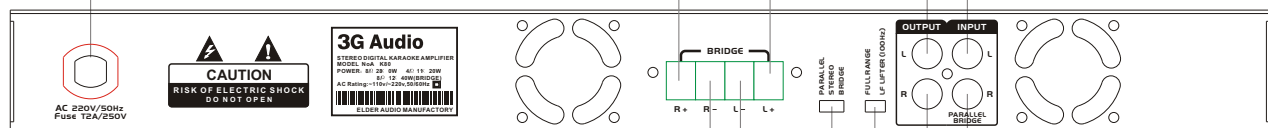
Please purchase parts for maintenance according to the above specifications.

2. Signal Input Socket for L Channel

3. Signal Output Socket for L Channel

4. Positive Terminal for L Channel Power Output

5. Positive Terminal for R Channel Power Output



6. Negative Terminal for R Channel Power Output

7. Negative Terminal for L Channel Power Output

8. Mode Switch

Turn this switch you can select stereo, mono, or bridge mode.

9. Full Range/Low cut Switch

Turn this switch you can select between full range and low cut status.

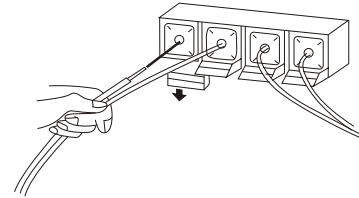
10. Signal Output Socket for R Channel

11. (Mono / Bridge Mode) Signal Input Socket for R Channel

INSTALLATION

SPEAKER CABLE CONNECTION

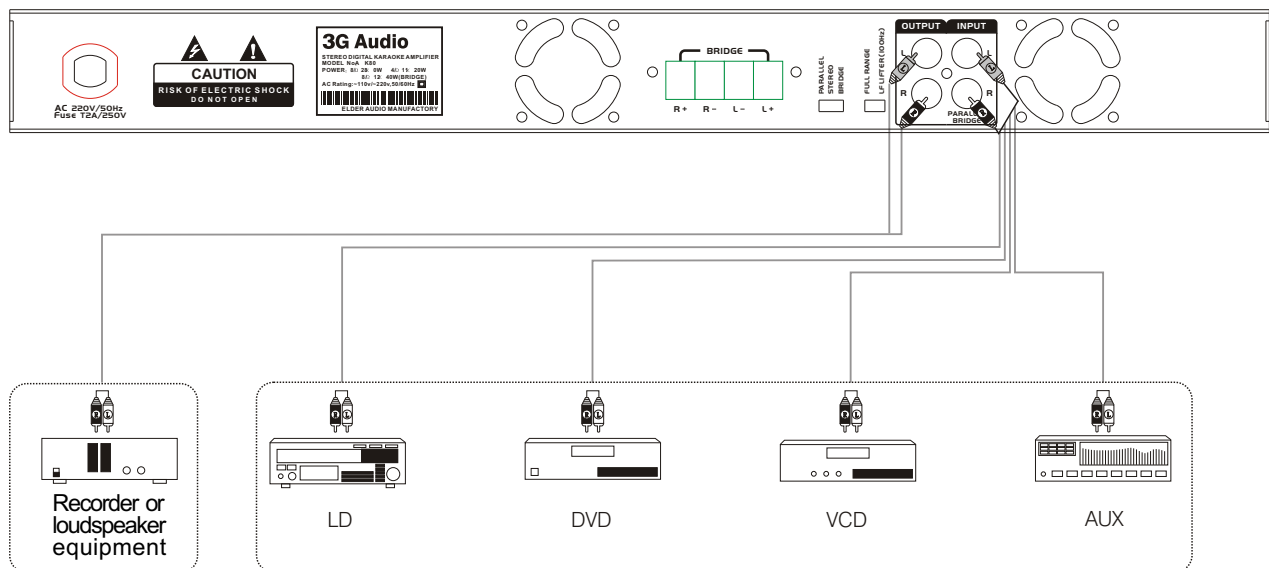
1. Push down the eject button to open the cable clip and insert the cable end in the hole.
2. Let the clip resume its original status, ensure the cable end is tightened. Select suitable speaker cable before connecting.



This amplifier can be connected to two clusters of speakers. Please check whether the polarity of the speaker cables is correct. Incorrect connection with reversed polarity will cause unnatural sound and bass loss.

Attention: Jut of cable end cannot touch adjacent cable.

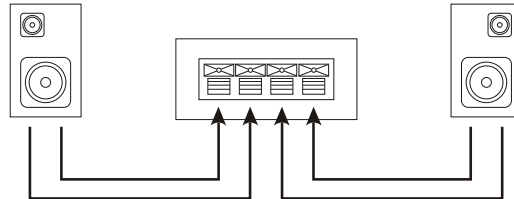
INPUT CONNECTION



Signals can be accessed via the output port

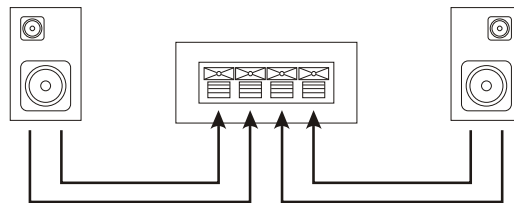
Signals can be accessed from LD, DVD, VCD, or AUX.

SPEAKER CABLE CONNECTION IN STEREO MODE



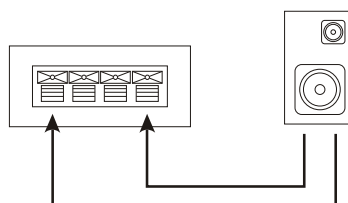
The mode switch must be located to "Stereo" .

SPEAKER CABLE CONNECTION IN MONO MODE



The mode switch must be located to "Mono" .

SPEAKER CABLE CONNECTION IN BRIDGE MODE



The mode switch must be located to "Bridge" .

The amplifier is ready for use when you finish connecting it to speakers and plugging in the signal connector following the manual. Here are the instructions for correct operation of the instrument:

1. Switch on the power (4) (see page 5).

2. Adjust volume

Adjust volume in stereo mode:

Turn the L channel volume knob (6) with a slotted screwdriver clockwise/anticlockwise to increase/reduce the volume until you feel satisfied.

Turn the R channel volume knob (5) with a slotted screwdriver clockwise/anticlockwise to increase/reduce the volume until you feel satisfied.

Adjust volume in mode/bridge mode:

Turn the R channel volume knob (5) with a slotted screwdriver clockwise/anticlockwise to increase/reduce the volume until you feel satisfied.

3. Tone adjustment

Adjust tone in any mode:

Turn the bass volume knob (5) with a slotted screwdriver clockwise/anticlockwise to increase/reduce the volume until you feel satisfied.

Turn the treble channel volume knob (5) with a slotted screwdriver clockwise/anticlockwise to increase/reduce the volume until you feel satisfied.

4. Feet installation

Optional feet are available for standing the amplifier.

You need not mount the feet if you want to install the amplifier in the rack of a case. If you want to lay the amplifier on a desk or other horizontal surface you must mount the feet according to the following steps:

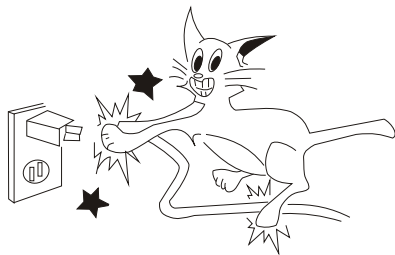
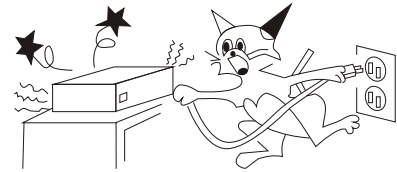
- ① Take out the (four) feet from the package.
- ② Insert the feet in the mounting holes at the bottom of the amplifier
- ③ Insert the locking pins in the center of the feet.

ADDITIONAL DESCRIPTION

SAFETY INSTRUCTIONS

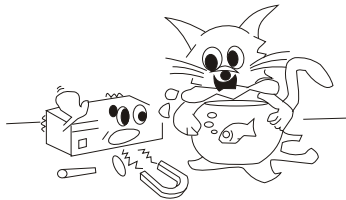
DO NOT OPEN THE COVER:

Do not open the cover to avoid the risk of electric shock caused by high voltage parts in the product. Any problems caused by user's wrong actions are out of warranty.



DO NOT DAMAGE THE POWER CORD:

Please hold the plug when pull out or plug in the cord. Do not pull out or touch the cord with wet hand, or it will cause the risk of electric shock. Power supply cords should be routed so they are not likely to be walked upon or pinched by items placed on or against them. When removing the cord from a power outlet be sure to remove it by holding the plug attachment and not by pulling on the cord.

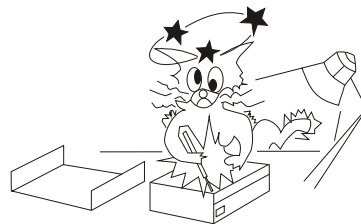


AVOID OBJECT AND LIQUID ENTRY:

Take care that objects do not fall into and that liquids are not spilled into the inside of the product. If the object or liquid enter the product, please ask qualified personnel to check it.

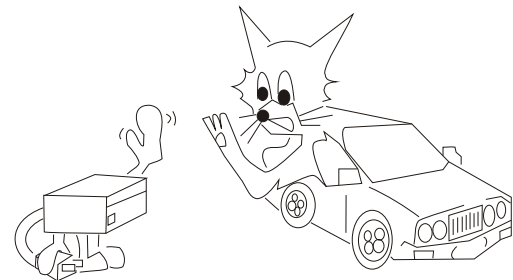
ABNORMAL STATUS:

In the event of abnormal noise and smell, please put off the power supply and pull out the cord, please ask qualified personnel to check it.



NONUSE FOR A LONG TIME:

When nonuse it for a long time, please put off the power supply and pull out the cord to avoid the unexpected dangers.



ADDITIONAL DESCRIPTION

TECHNICAL SPECIFICATIONS

Distortion Limit Output Power:	2x80W (THD+N: 0.5%, with 8 Ω load, in stereo/mono mode) 2x120W (THD+N: 0.5%, with 4 Ω load, in stereo/mono mode) 240W (THD+N: 0.5%, with 8 Ω load, in bridge mode)
Frequency Response:	20Hz~20KHz(+/-3dB)with low-cut switch at GENERAL location 100Hz~20KHz(+/-3dB)with low-cut switch at LOWCUT location
Load Impedance:	8 Ω (in mono/stereo mode), 4 Ω (in mono/stereo mode), 8 Ω (in bridge mode)
Harmonic Distortion:	≤ 0.03
Intermodulation Distortion:	≤ 0.05
Slew Rate:	$\geq 12V/\mu S$
Damping Factor:	≥ 200
Signal to Noise Ratio:	$\geq 100db$
Minimum Electromotive Force:	$\leq 1V$
Overload Electromotive Force:	$\geq 8V$
HF Compensation:	$\geq \pm 6dB(10KHz)$
LF Compensation:	$\geq \pm 6dB(100Hz)$
Dimensions(WxDxH):	430x160x43.8mm(without feet)
Net Weight:	5.6Kg

ACCESSORIES

Please check whether the accessories are complete after you open the package according to the list below:

Feet	4pcs
User's manual	1pc
Warranty card	1pc
Certificate	1pc

MAINTENANCE

- ▲ The equipment can be cleaned with dry cotton cloth. If the equipment is abnormally dirty, please clean it with a piece of cotton cloth dipped in detergent for 5 to 6 seconds, and finally dry it with a piece of dry cloth.
- ▲ Don't use alcohol, insecticide, or any other volatile or corrosive liquid to clean the equipment, which will cause colour fade or flake-off of the equipment surface.
- ▲ When the equipment is not used for a long time, please keep it in an appropriate dry place.

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www.elderaudio.com