

# KLD Guitar AMP

## MOJO12HR

### Tube Guitar Amplifier Manual



**Kailing Electronic Co.,Ltd**  
**<http://www.kldguitar.com>**



Before printing this manual, assess if it is really needed



Intended to alert the user to the presence of un-insulated “ dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product

**CAUTION:** Before you “ON” Mojo12HR, please ensure it has been connected with speaker. If not, it will damage tube and transform.

**CAUTION** Risk of electrical shock –DO NOT OPEN!

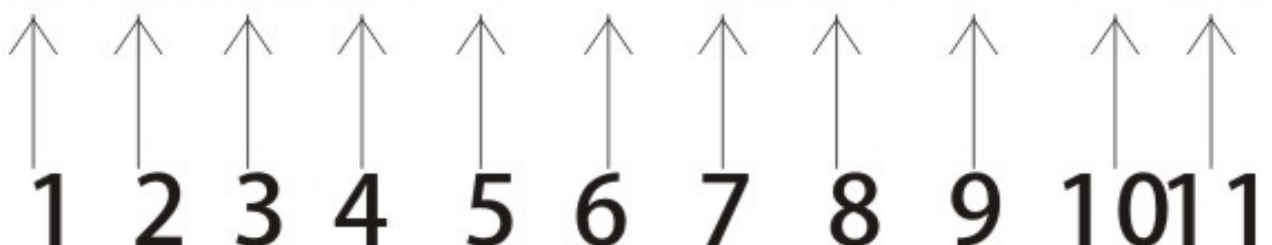
**CAUTION** To reduce the risk of electric shock, do not remove cover. No User serviceable parts inside. Refer servicing to qualified service personnel.

**WARNING** To prevent electrical shock or fire hazard, do not expose this appliance to rain or moisture. Before using this appliance, read the operating guide for further warnings

**Congratulations** on your purchase of the Mojo12HR. The Mojo12HR is vintage 12w eyelet hand wired tube guitar amp. High-quality tubes, coupling capacitors selected for maximum tone, performance and reliability , You can obtain 12w to 1.5w power by power management. Compact structure let amp smaller and portable. It can be connected to a cabinet with either a 12 or 15 inch speaker to obtain a very good sound.

## FEATURES

- Power : 12w RMS.
- 3x12ax7, 2x6l6.
- Eyelet hand wired.
- Seven controls: Gain, Master, Bass, Middle, Treble , Earth, SKY.
- Standby.
- Pentode/Triode.
- Green power manage : 12,6,3,1.5w.
- Output, 4 ohm, 8ohm, 16ohm.
- Tube driven Spring reverb
- Precise parts used for lowest noise 5W metal oxide power resistors, 600V polypropylene film/foil and polyester military capacitors.
- Connect with 112.
- DIMENSION:36 (L)x16(W)x13(H)CM (14.2'x6.3'x5.1')(Unpacked) .
- WEIGHT: 10kg (Unpacked).



### 1. PASSIVE INPUT (1)

The Input jack will accept signals from high impedance guitar pickups, Be sure to use a high-quality shielded cable to connect the guitar to the amplifier

### 2. ACTIVE INPUT:(2)

The Input jack will accept signals from low impedance guitar pickups, Be sure to use a high-quality shielded cable to connect the guitar to the amplifier

### 3. GAIN:(3)

Preamplifier gain control

### 4. BASS:(4) (EQ) .

### 5. MIDDLE : (5)(EQ)

### 6. TREBLE(6) (EQ)

Passive tone controls that regulate high, mid, and low frequencies respectively

### 7. MASTER : (7)

Control amp volume.

### 8 SKY : (8)

Boost treble gain, Clock for more treble gain.

### 9. REVERB:(9)

Reverb adjust, Clock for more reverb volume.

### 10. POWER Management:(10)

Hi: full power ; Mi: half power; Lo: quarter power. Used with PENTODE/TRIODE, you can obtain 12w, 6w, 3w, 1.5w power. So you can play amplifier at different place, gigs, home etc.

### 11.STANDY:(11)( EXTERNAL)

When you on the amp, open power switch first , after 30-60s , open standby.

When you off the amp, close standby first, then close power switch. LED of standby becomes green colors means work.



### 12.SOCKET of POWER: (12)

230/110V according to customers demand .

### 13. POWER ON/OFF:(13)

### 14. PENTODE/TRIODE SW (14)

18w/9w power selection.

### 15. DI(OUT): (15)

Provide for connection of external Digital out

### 16. OUTPUT1:(16)

Provide for connection of external 4 ohms speaker

### 17. OUTPUT2:(17)

Provide for connection of external 8 ohms speaker

### 18.OUTPUT3:(18)

Provide for connection of external 16 ohms speaker

## **POWER AMPLIFIER SECTION**

EL84's with 12AX7 driver

### **Rated Power & Load**

18w RMS into 8, 4 ohms

### **Power @ Clipping (Typically)**

(5%THD, 1 KHZ, 120v AC line) 18W RMS into 8, 4 ohms (Bias must be reduced to **measure**)

### **Frequency Response:**

+0,-2db, 50HZ to 15KHZ,@, 20w RMS into 16 ohms

### **Hum & Noise:**

Greater than 80 dB below rated power

### **Power consumption:**

150watts 50/60HZ. 120 VAC(domestic)

## **PREAMP SECTION**

3-12AX7's

The following specs are measured @1KHz with the controls present as follows:

Pre & Post (lead)@0

Bass & Treble EQ @12

Middle [EQ@0](#)

**Nominal Level is with Input Gain @6**

**MINI level is with Input Gain @ 12**

### **Preamp Normal Input**

Impedance: Very high Z, 470Kohm

### **Lead Channel**

(Post Gain @ 12)

Nominal Input level -40dBV, 10mV RMS

MINI Input Level: -70 dBV, 0.3mV RMS

Normal Channel:

Nominal Input Level:

-17 dBV , 140mV RMS

MINI Input Level: -28dBV, 40mVRMS

Max Input Level: 0dBV 1.0VRMS

### **Equalization:**

Customer bass, middle & treble passive-type EQ

Designed input Level:

-6dBV ,0.5VRMS

## **IMPORTANT SAFETY INSTRUCTIONS**

**WARNING:** When using electric products, basic cautions should always be followed.

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be retained for future reference.
3. Obey all cautions in the operating instructions and on the back of the unit.
4. All operating instructions should be followed.
5. This production should not be used near water, i.e.. a bathroom , sink, swimming pool, wet basement, etc.
6. This product should not be placed near a source of heat such as a stove, radiator, or another heat producing amplifier.
7. This product should be located so that its position does not interfere with its proper ventilation. It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air
8. Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
9. Never break off the ground pin on the power supply cord

10. Power supply cords should always be handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for cuts or signs of stress, especially at the plug and the point where the cord exits the unit.
11. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
12. If this product is to be cleaned with a damp rag. The vinyl covering used on some units can be cleaned with a damp rag or an ammonia-based household cleaner if necessary. Disconnect unit from power supply before cleaning.
13. If the product is to be mounted in equipment rack, rear support should be provided.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation holes or any other openings.
15. This unit should be checked by a qualified service technician if:
  - A: The power supply cord or plug has been damaged
  - B: Anything has fallen or been spilled into the unit.
  - C: The unit does not operate correctly
  - D: The unit has been dropped or the enclosure damaged.
16. The user should not attempt to service this equipment. All service work should be done by a qualified service technician.
17. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise induced hearing loss. But nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time.

## **SAVE THESE INSTRUCTIONS**

### **Other Tips**

#### **1. What time tube must be removed.**

- (1) clear micro sound effect
- (2) "kalakala" noise in background of Guitar
- (3) Out power reduced
- (4) Bass become confuse
- (5) Treble damaged

#### **2. How to removed Tube.**

Please look for expert to change tube. If you want change it self, please do as below

- (1) Turn off the AMP, and take off electric power plug, wait for the tube cold.
- (2) Please change EL84 in pair. Don't use new and old together