

KLD Guitar AMP

Pilot 15H(M)

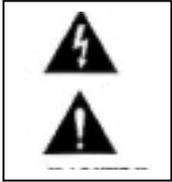
Tube Guitar Amplifier Manual



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" Pilot 15HM, 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 Pilot 15HM. This is newest production of Kailing electronic Co.,Ltd(<http://www.kldguitar.com>).

Pilot 15H is 6L6 ,purpose-built amplifier head based on fender vintage amp. It's sound clean and warm. There are six outputs give you many selection. It can be connected to a cabinet with either a 12 or 15 inch speaker to obtain a very good sound.

FEATURES

15 watts (rms) 4,8 ohms

Two 6L6 and two 12AX7's

Standby

Out speaker jack: 4ohm, 8ohm, 16ohm ,2x8ohm, 2x16ohm.

Hi-Lo impedance inputs

Controls: Gain, Reverb, Bass, Middle, Treble, Volume

Booster/Normal SW

Bright/normal

Spring reverb

XLR out DI out for record

15/7.5w sw

FS jack

FX loop

108 w power transform

Precision made parts used for lowest signal to noise ratio.

5W metal oxide power resistors. 600V polypropylene film/foil and polyester military capacitors

1. LED NORMAL/BRIGHT (1)

Green is normal, Red is bright

2. NORMAL/BRIGHT: (2)

Switch to position "I" to activate; "O" to OFF

3. PASSIVE INPUT: (3)

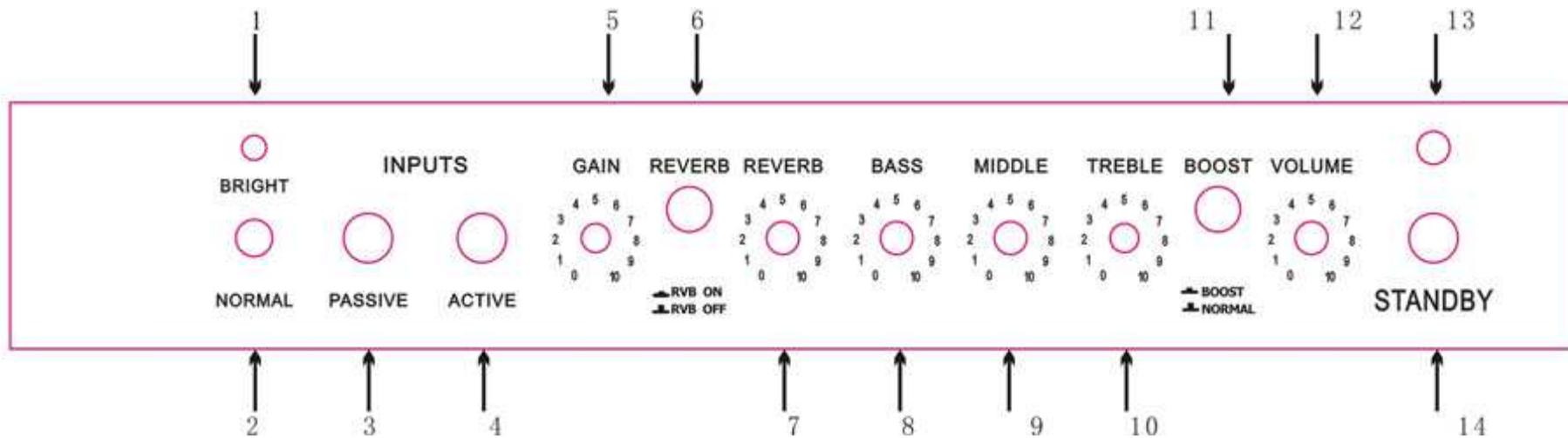
The Input jack will accept signals from passive guitar pickups, Be sure to use a high-quality shielded cable to connect the guitar to the amplifier

4. ACTIVE INPUT: (4)

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

5. GAIN: (5)

Preamp gain control



6. REVERB ON/OFF: (6)

7. REVERB: (7)

Reverberation is an echo effect. Rotate clockwise to increase the effect

8. BASS: (8)(EQ)

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

9. MIDDLE: (9)(EQ)

10. TREBLE: (10)(EQ)

11. BOOST SWITCH: (11)

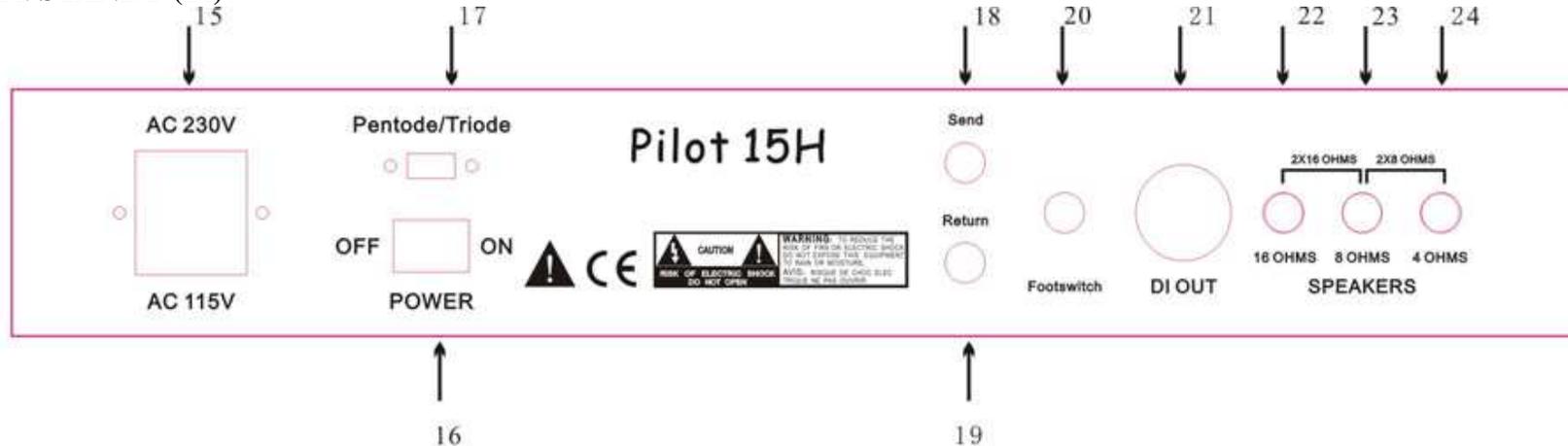
"Boost" The overall system gain; Depress to the "in" position to activate

12. VOLUME: (12)

Volumes controls .

13. LED OF STANDBY (13)

14. STANDBY (14)



15. POWER SOCKET: (15)

16. POWER ON/OFF: (16)

17. PENTODE/TRIODE SW (17)

15w/7.5w power switch

18. SEND: (18)(EXTERNAL)

Output for supplying signal to external effects or signal processing equipment.

19. RETURN :(19)(EXTERNAL)

Input for returning signal from external effects or signal processing equipment

20. FOOT SWITCH :(20)(EXRERNAL)

Provided for the connection of the optional remote footswitch. Footswitch is used to select defeat reverb. When using remote foot switch, always insert the plug fully(second click) to ensure proper operation

21. DI OUT : (21)

XLR out for recording

22.OUTPUT: (22)

Provide for connection of external 16ohms speaker cabinet.

23. OUTPUT: (23)

Provide for connection of external 8ohms speaker cabinet.

24. OUTPUT: (24)

Provide for connection of external 4ohms speaker cabinet.

NOTE: NOTE: The way connect with speaker

- (1) Connect three speakers at same time, The impedance of each speaker must 12 ohms
- (2) Connect with two speakers in the meantime, If you use INPUT 24 and 23 (4ohms and 8 ohms), The impedance of each speakers is 4 ohms. If you use INPUT 23 and 22 (8 ohms and 16ohms),The impedance of each speakers is 8ohms
- (3) If you only connect one speaker, please connect according to the impedance.

SPECIFICATIONS

POWER AMPLIFIER SECTION

2x6L6 's with 12AX7 driver

Rated Power &Load

15w RMS into 8, 4 ohms

Power @Clipping(Typically)

(5%THD,1KHZ,120vAC line) 15W RMS into 8 ,4ohms(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:

150wtts 50/60HZ.120Vac(domestic)

PREAMP SECTION

2-12AX7's

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

Pre @0

Reverb Level @0

Bass &Treble EQ @12

Middle [EQ@0](#)

Boost Switch Out

Nominal Level is with Input Gain @6

MINI level is with Input Gain @ 12

Preamp Normal Input

Impedance: Very high Z, 470Kohm

Equalization:

Customer bass, middle & treble passive-type EQ

Effect send

-Load Impedance: 1Kohm or Greater; Nominal Output Level: -6dBV, 0.5V RMS

Effect Return

Impedance : High Z, 2M ohms

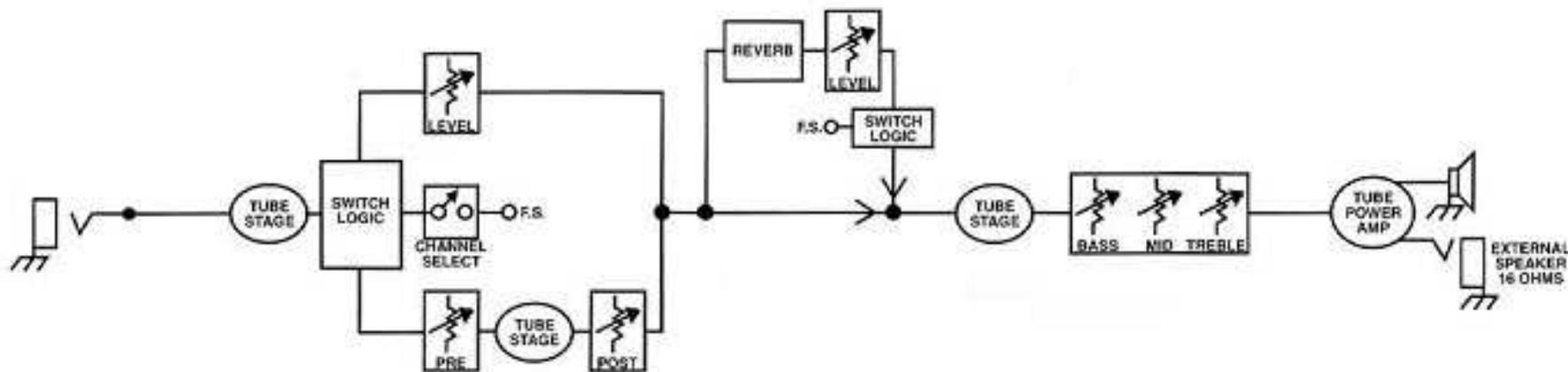
Designed input Level:

-6dBV ,0.5VRMS (Switching jack provides Effect Send to Effects Return connection when not used

External Footswitch Function:

Reverb Defeat

(when reverb control is raised)Normal/lead channel select(when lead activated)



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 handle 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 6L6 in pair. Don't use new and old together