

MOOER

TUBE ENGINE
20W POWERAMP

Owner's Manual

CONTENTS

| | |
|---|--------------|
| Important Safety instructions..... | 01 |
| Introduction..... | 02 |
| Main Features..... | 02 |
| Rack Mount..... | 03 |
| Setup and Operation..... | 04-05 |
| Front Panel..... | 06 |
| Back Panel..... | 07 |
| Specifications..... | 08 |

Important Safety instructions

- Read these instructions, Keep these instructions, follow all recommended guidelines included within these instructions. Failure to do so could void your warranty.
- **DO NOT** expose this equipment to water (or any other fluids for that matter)
- **DO NOT** cover or block ventilation grills. (tubes and transformers can become hot and the ventilation is there to dissipate heat) Clean only with a dry cloth
- **DO NOT** install or operate near anything which emits excessive amounts of heat (ovens, radiators, refrigerators, etc.) or in extreme direct sunlight.
- Always ensure the amplifier is connected to a grounded, A/C power supply which meets the power supply specifications on the rear panel of the amplifier.
- Turn off the amplifier and disconnect the power chord from the amplifier before replacing fuses or tubes.
- Only use a 3 pin (grounded) power chord like the one included with your purchase. DO NOT use a 2 pin (non-grounded) power chord, this is not safe.
- **WARNING:** Always make sure proper load is connected to the correct speaker output with matching impedance before operating the amplifier. Failure to do so could pose a shock hazard and may result in damage to the equipment.
- Use only unbalanced professional speaker cable to connect a load to the amplifier.
Refer all servicing, repair or maintenance of equipment to a qualified professional.
- MOOER will not be held responsible for damage of the equipment or personal injury caused by improper use, repair or maintenance of our products. We are always here to help with advice or instructions so please feel free to contact us for help.

Introduction

The MOOER TUBE ENGINE is a 20W tube power amp. This Class A/B tube circuit utilizes handpicked and matched sets of 6E8 tubes to provide the perfect platform for your preamp pedals, amp modellers and effects units.

TUBE ENGINE is fairly transparent, allowing the real tone of your other units to be heard, whilst adding just enough warmth and color to make this a better choice over the solid-state alternatives.

Controls are very simple as you'd expect with just presence and volume for dialling in your brightness and getting fast adjustment on your overall sound. The input has 2 gain settings for easy integration with different equipment.

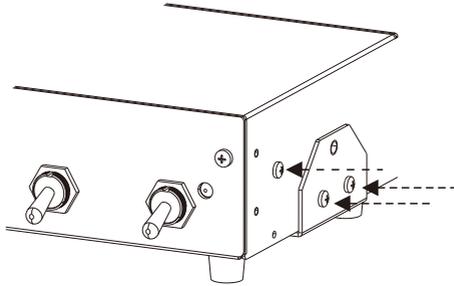
TUBE ENGINE has been housed in a light weight metal chassis and comes complete with a carry handle and rack mounting lugs.

Main Features

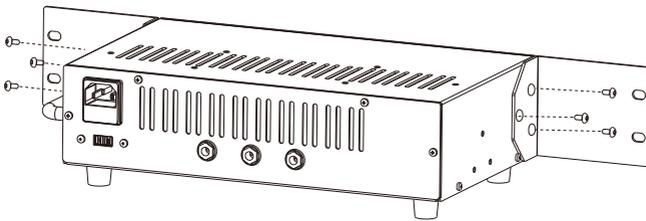
- 20Watts class A/B tube power amp
- Hi/Low gain input
- Strong, light-weight metal chassis
- Supplied with carry handle and rack mounting lugs
- 1 X 12AX7 (ECC83) 1 X 12AT7 (ECC81) 2 X EL84 (6BQ5)
- Outputs for 1 X 16 Ω , 1 X 8 Ω or 2 X 16 Ω

Rack Mount

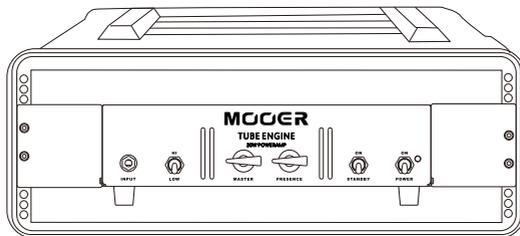
TUBE ENGINE comes complete with a full set of rack mounting lugs and can be mounted in a standard 2U rack space.



Remove the bolts in the picture on both sides of the TUBE ENGINE to release the rack mounting lugs



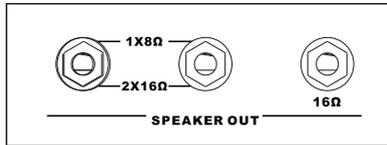
Put the rack mounting lugs in place and reinstall the bolts being sure to secure them tightly



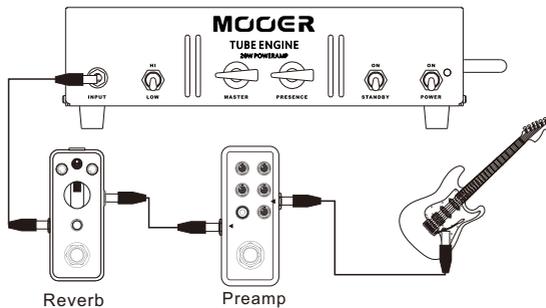
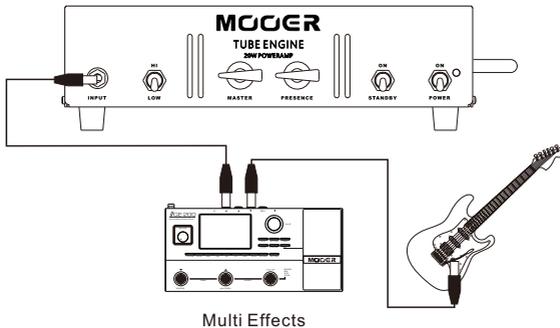
Setup and Operation

1. Connect your TUBE ENGINE to a speaker or load box with the correct impedance using a professional unbalanced speaker cable. (See SPEAKER OUT on the Back Panel section of this manual)

CAUTION: Never operate TUBE ENGINE without a speaker load connected. This could cause irreparable damage.

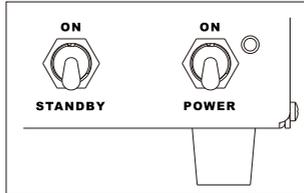


2. Connect your preamp, pedalboard or multi effects unit to the TUBE ENGINE INPUT

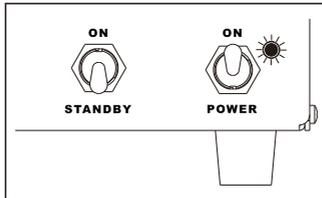


Setup and Operation

3. Ensure the power switch is set to the OFF position and the STANDBY SWITCH is set to the STANDBY position. Connect your TUBE ENGINE to your AC mains supply using a 3 pronged AC power chord.

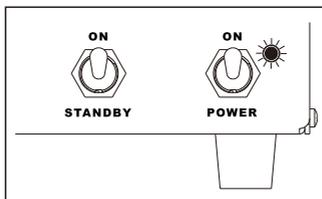


4. Put the power switch in the ON position and wait for at least 30 seconds for the tubes to warm up. This will help to extend tube life. Standby can also be used to keep the tubes warm when taking a break.

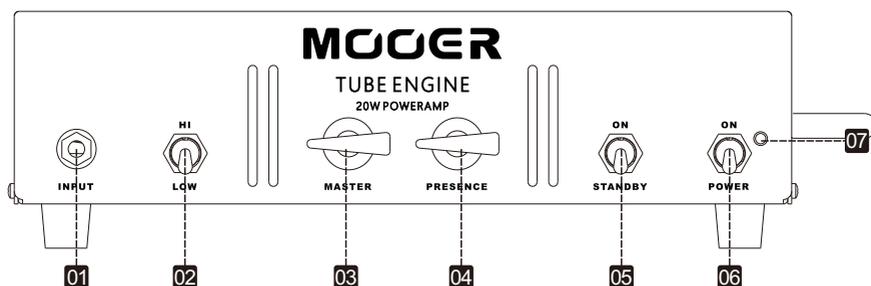


30 seconds

5. Put the STANDBY SWITCH in the ON position to operate the amplifier. Adjust the HI/LOW SWITCH, VOLUME and PRESENCE controls to your liking.



Front Panel



1. INPUT

Connect your audio source to this input

2. HI / LOW SWITCH

Select between high and low input impedance

HI = 1M OHMS

LOW = 220K OHMS

3. MASTER

Adjusts the overall output volume

4. PRESENCE

Adjusts the overall upper-mid range brightness

5. STANDBY SWITCH

Leave this switch in “STANDBY” position for 30 seconds after powering on the amplifier.

Then switch to the “ON” position

6. POWER SWITCH

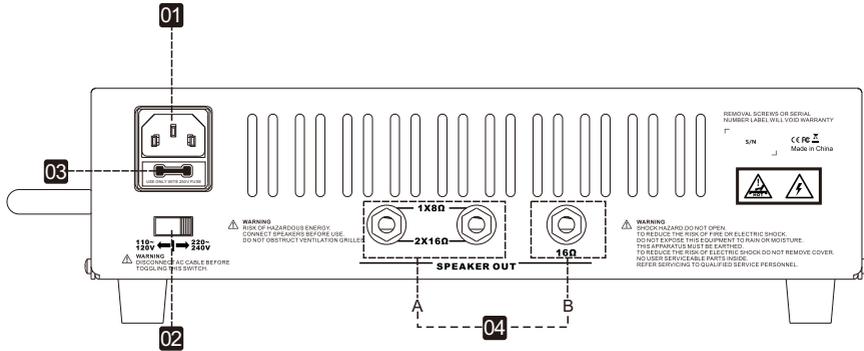
Toggles AC power to the amplifier on/off

Always ensure the STANDBY switch is in the “STANDBY” position when powering the tube engine ON

7. POWER LED

This LED will illuminate when the TUBE ENGINE is switched on

Back Panel



1. AC INPUT

Connect the TUBE ENGINE to your AC power outlet using a 3 pin AC power chord

2. AC VOLTAGE

Select the correct voltage range for your AC power outlet

3. FUSE

Power protection fuse

110V-120V = T1A

220V-240V = T500mA

4. SPEAKER OUT

Always connect a speaker or load box of the correct impedance to your TUBE ENGINE using a professional unbalanced speaker cable before powering on.

TUBE ENGINE has 3 different speaker output jacks which are separated into 2 output sections

A – Connect 1 x 8Ω speaker load to either of these two outputs
Connect 2 x 16Ω speaker loads to each of these two outputs

B – Connect 1 x 16Ω speaker load to this output

DO NOT use both of these output sections simultaneously

Specifications

| | |
|----------------------------|--|
| Power Output: | 20Watts |
| Preamp Tube: | 12AT7 (ECC81) X 1 12AX7 (ECC83) x 1 |
| Power Tube: | 6L6 (6BQ5) X 2 |
| Power Requirements: | 100~120V 50/60Hz FUSE: T1AL/250V 220~240V 50/60Hz FUSE: T0.5AL/250V |
| Dimensions: | 335mm (D) x 203mm (W) x 91mm (H) |
| Weight: | 5.252Kg |
| Accessories: | AC Power Cord, Owner's Manual, Rack mounting lugs |

MOOER

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