



OLD SCHOOL 21RT

OWNERS MANUAL

WARNING! - IMPORTANT SAFETY INSTRUCTIONS



THIS APPARATUS MUST BE EARTHED/GROUNDED
 READ THIS INSTRUCTION MANUAL CAREFULLY BEFORE TURNING ON THIS DEVICE



Do not try to open the amplifier chassis – there are no serviceable parts. Only a qualified service technician should remove the chassis.

Do not expose the amplifier to rain, moisture, or any kind of liquids. Never use the amplifier in wet or damp conditions.

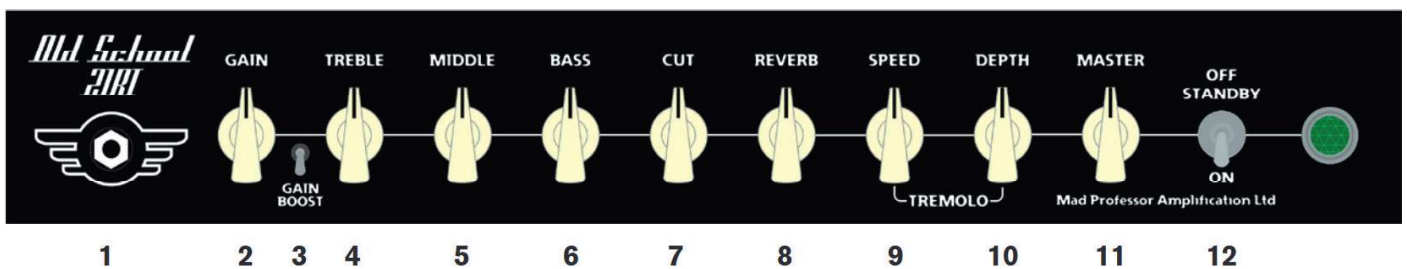
TUBES ARE HOT. DO NOT TOUCH DURING OR SHORTLY AFTER OPERATION.

Plug the amp only to correct AC voltage, the voltage can be changed to 100/120 or 230/240V from the back panel of the amp. The fuses must be changed to correct rating if voltage is changed.

The fuses should be replaced only with identical ratings and only when the power cord has been disconnected from its power source.

Never plug the amp into an ungrounded outlet. Tube replacement and amp biasing can be done only by a qualified service technician.

FRONT PANEL



BACK PANEL



PLEASE read this instruction manual carefully before switching on.

Vacuum tube amplifiers generate heat. Ensure proper ventilation. Keep away from curtains or any flammable objects. **Do not block ventilation.**

This guitar amplifier can produce high volume levels. Exposure to high volume levels may cause hearing damage.

Protect the amp from physical knocks or bumps especially when the tubes are hot. Let the amp cool down after use before you move it. **Never operate the amplifier without a connected speaker.**

Use high quality cables only, instrument cable between guitar and amplifier and speaker cable between amp and a speaker.

Don't take any risks, if there are any doubts, consult your dealer and/or a qualified technician.

Thank you for buying the Mad Professor Old School 21RT guitar amplifier.

This amplifier is designed for classic guitar tones from the 50's to modern times. You are able to get legendary tones from both sides of The Atlantic. No need for channel switching as these classic tones from clean to distorted are easy to get by adjusting your guitar's volume and tone knobs.

The amp has built-in Reverb and Tremolo for the final old school touch. With good care this amplifier will give you decades of trouble free operation.

USE:

1. **Connect the amplifier power cord to correct value grounded power outlet. Check that the Voltage Switch value matches the available voltage.**
2. **Make sure the speaker is connected to the amplifier. Never operate the amplifier without a speaker or a load connected to the amplifier.**
3. **Plug your guitar (using a high-quality cable) into the input.**
4. **Switch the Power to mid position (Standby) and wait about 30 seconds to let the tubes warm up.**
5. **Switch the amp on (switch down position)**
6. **The amplifier is now ready to use.**
7. **You need to turn up both Volume and Master volume to get a sound from the amplifier.**

BASIC SETTINGS :

Bright American clean: Turn the master volume to 3 o'clock, bass and treble to 12 o'clock, Middle to 10 o'clock. Turn Cut to fully CCW and turn up the volume until the tone start to distort. Fine-tune to your taste with the tone knobs.

Warm British clean: Turn the master volume to 3 o'clock, bass and middle to 12 o'clock, and treble to 10 o'clock. Cut to full CW and turn up the volume until the tone starts to distort. Fine-tune to your taste with the tone knobs.

Distorted tone: Turn the master volume to 12 o'clock, the Gain to 3 o'clock, bass, middle, treble and Cut to 12 o'clock. Switch the Gain Boost to up position for more gain. Set the output volume with Master Volume. Fine-tune to your taste with the tone knobs.

FRONT PANEL:

1. **Input:** 1/4" unbalanced input. Plug your guitar cable in here.
2. **Gain:** Sets the gain of the preamp, higher settings will produce distortion
3. **Gain Boost:** Boost the pre-amp gain. Add some compression to clean tone too.
4. **Treble:** Adjust the treble response of the amp, this adjusts just the treble, it does not affect the bass response as with many vintage amplifiers.
5. **Middle:** Tuned control for middle frequency
6. **Bass:** Adjusts the amount of low end
7. **Cut:** Cuts the high end when turned clockwise. It is normal for the pot to make some noise when turning.
8. **Reverb:** Adjust the amount of the built-in classic Reverb. If the foot switch is not plugged in, the reverb is active.
9. **Tremolo Speed:** Adjust the speed of the built-in classic Tremolo effect. If the foot switch is not plugged in, the Tremolo is active.

10. Tremolo Depth: Adjust the depth of the built-in classic Tremolo effect. If the foot switch is not plugged in, the Tremolo is active. By turning down this knob, you'll turn off the tremolo.

11. Master Volume: Adjust the volume of the amplifier. Adjusting this you can get overdriven sounds at any volume level. With heavily distorted tone it helps with the hum if you turn down the Master Volume a bit, lowering the Master Volume will also tighten the distorted tone.

12. Power/Standby switch: This switch works as an AC power on/off switch and as a Standby switch.

Up position power is off, mid position is Standby and it mutes the power amp, down the amp is on.

Use the Standby position to warm the tubes before you turn the amps on. 30 seconds after switching the power on is enough, after that you can turn the amp on. You can also mute the amp for short breaks or when switching guitars.

BACK PANEL:

13. Mains voltage selector switch: Switch the voltage to match the AC power you are using. To change the voltage first turn the amp off and disconnect the power cable. Then slide the switch to the correct position and change the mains fuse to correct value.

14. Mains input: Connect the amplifier to an earthed main outlet with an insulated plug AC cable. Before you power the amp up, ensure the voltage switch value corresponds to the available voltage.

15. Mains fuse: Slow blow T1A - 230/240V, T2A - 100/120V

16. and 17. HTI fuse: Protects the power supply in case of tube failure. If it blows, check for a bad power tube. If tube failure is not the cause, the amp should be taken to a qualified service center for repair. Replace broken fuse only with the same type - slow blow T0.4A

18. Speaker outputs: connect a speaker/cabinet to the output that matches the speaker/cabinet impedance. Always match the amplifier's speaker output impedance to the impedance of the speaker that is being used. Use only one type impedance output at a time. Use only high quality speaker cables, **never use guitar cable as a speaker cable!**

19. Footswitch input: connect the foot switch cable here to be able to turn Reverb and Tremolo effects on and off via the foot switch. If there is nothing plugged in the Footswitch input, both the Reverb and Tremolo effects are active (but can be turned off by turning down the Reverb knob and Tremolo Depth knob).

SPECIFICATIONS:

- Preamp tubes: 4 x ECC83/12AX7
- Poweramp tubes 2 x 6V6
- Output power 21 Watts
- Power consumption Max 100 VA
- Combo Speaker 12" 8 ohms
- Dimensions (W*D*H):
 - Combo 61 x 26 x 50,5 cm / 24" x 10,25" x 20"
 - Head 61 x 26 x 27,6 cm / 24" x 10,25" x 11"
- Weight:
 - Combo 20 kg / 44 lbs
 - Head 13,5 kg / 30 lbs

Mad Professor Amplification Ltd.

CE & UKCA Declaration of Conformity

We, ***Mad Professor Amplification Ltd***

Lemminkäisenkatu 5, 33540 Tampere Finland

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Declare under our sole responsibility that the following products:

Old School 21RT Head and Combo Amplifiers

Old School 51RT Head and Combo Amplifiers

When installed and used in accordance with the manufacturer's instructions, the Model(s) named are in conformity with the following standards and normative documents:

-The Electrical Equipment (Safety) Regulations 2016

-The Electromagnetic Compatibility Regulations 2016

-Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Below references the relevant harmonised standards used or referenced to the technical specifications in relation to which conformity is declared:

-LVD: BS EN 62368-1:2014 + AC:2015

-EMC: BS EN 55032:2015/A1:2020/A11:2020

-BS EN 61000-3-2:2019/A1:2021

-FCC: Part 15 Class B

-Electromagnetic compatibility of multimedia equipment. Immunity requirements.

-EMC: BS EN 55035:2017/A11:2020

-Electromagnetic compatibility of multimedia equipment. Emission Requirements.

-RoHS: EN 63000:2018, RoHS2 - 2011-65/EU, RoHS3 – 2015/863

-REACH (EC) No. 1907/2006

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