

*Metaltronix*TM

By Lee Jackson



METALTRONIX M2000

USER MANUAL

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Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Maintain at least 3 feet of distance around all sides of amplifier.
Do not block any ventilation openings with items such as newspapers, tablecloths, curtains, etc.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the amplifier.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Unplug this amplifier during lightning storms or when unused for long periods of time.
- 13) Refer all servicing to qualified service personnel. Servicing is required when the amplifier has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the amplifier, the amplifier has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14) Avoid placing any liquids on or near the amplifier that may splash or drip such as those contained in bottles, cans, glasses, etc.

***Metaltronix amplifiers are capable of producing very high sound pressure levels which can cause temporary or permanent hearing damage.**

About the Metaltronix M2000 amplifiers

In the 80's Metaltronix M-1000 was the choice of just about every rock and metal player in the industry. It was heard on many of the iconic albums of the era.

We wanted the M-2000 to be the next step in guitar amplification, and be the next iconic and ground breaking amplifier.

We feel we have done it with our M-2000, creating features not seen before, and a sound that is just amazing.

We thank you for being a part of the next generation of iconic artists, that together will create the new tonal frontier.

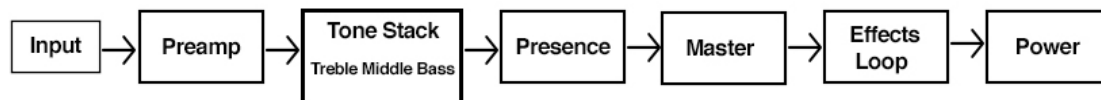
The Metaltronix M2000 are built with the best parts available and you can hear it. From the cleanest cleans and the warmest distortion that made the iconic 80's amps famous. We know you will be extremely excited every time you turn it on and play through it.

Lee Jackson

QUICK SETUP

- 1) Plug your instrument using a 1/4" instrument cable into the input on the left of the front panel
- 2) Plug a suitable power cable from the amp's rear panel MAINS cable inlet to your wall power receptacle
- 3) Plug the amp into your speaker cabinet using 1/4" speaker cable
- 4) Plug the footswitch cable into the FOOT PEDAL jack on the rear panel of the amplifier
- 5) Set Preamp - Treble - Middle - Bass- Presence controls to (6)
- 6) Set Master control (2 - 3)
- 7) Set Power control to (11)
- 8) Make sure Effects Loop Engage is off
- 9) Set Ready switch in the ON position for 1 - 5 minutes to allow tube filaments to warm up
- 10) Set Go switch in the ON position to OPERATE.

Signal Flow Chart:



FRONT PANEL CONTROLS

- 1) **INPUT** instrument jack
- 2) **PREAMP** control
- 3) **MASTER** control
- 4) **TREBLE** control
- 5) **MIDDLE** control
- 6) **BASS** control
- 7) **PRESENCE** control
- 8) **POWER** control
- 9) **GO** (standby) switch
- 10) **READY** (power) switch

INPUT JACK provides input to the M-2000 amplifier.

VOLUME adjusts the signal strength coming out of the tonestack, and going into the second tube stage.

TREBLE adjusts the high frequency response for both clean and overdrive modes. At near-maximum settings, you may also notice an increase in gain.

MIDRANGE adjusts the mid frequency response for both clean and overdrive modes.

BASS adjusts low frequencies in your amplifier for both clean and overdrive modes.

MASTER (POWER AMP) sets the master volume of that channel

PRESENCE (POWER AMP) adjusts the high frequency response of the power amplifier using negative feedback. Use this control to add sparkle and clarity to your tone.

POWER This control sets the overall volume for both channels of the M-2000. It allows you to dial down the power amp section while retaining the power amp sound.

GO (OPERATE / STANDBY) two-way toggle switch applies high voltage to the vacuum tube anodes (and screen grids) during use of the amp. To ensure long tube life, first power the unit on with the toggle switch in STANDBY position for approximately 30 seconds. Then switch to OPERATE to use the amp. With the toggle switch in the UP position, the amplifier is in OPERATE mode. In the DOWN position, the amp is in STANDBY mode.

READY (MAINS) two-way toggle switch powers the amp on and off. With the toggle switch in the UP position, the amp is ON. In the DOWN position, the amp is OFF.

REAR PANEL CONTROLS

- 1) **MAINS** IEC cable inlet
- 2) **5 AMP / 3 AMP (P-51) 3 AMP / 2 AMP (P-38)** slow-blow fuse
- 3) **1 AMP** slow-blow fuse
- 4) **SPEAKER OUTPUT** Main and Extension speaker jacks
- 5) **IMPEDANCE SELECTOR**
- 6) **EFFECTS LOOP SEND** Instrument jack
- 7) **EFFECTS LOOP RETURN** Instrument jack
- 8) **EFFECTS SEND/RETURN VOLUME** Send levels
- 9) **EFFECTS ENGAGE** Effects Loop on and off
- 10) **FOOT PEDAL ENGAGE** Channel switching
- 11) **FOOT PEDAL** 1/4" female jack

MAINS IEC cable inlet – plug a suitable IEC power cable into this inlet to power your amplifier.

Mains Fuse 5 AMP / 3 AMP (P-51) 3 AMP / 2 AMP (P-38) slow-blow fuse – used to protect your amplifier from voltage spikes or excessive current draw. Replace only when necessary. 5A is used for amplifiers used with a 100 - 120VAC country supply, and 3A is used with 220 - 240VAC.

B+ Fuse 1 AMP the B+ fuse, which protects the circuitry from excessive current draw, Use 1A Slow-Blow only.

SPEAKER OUTPUT .” speaker cable jacks. Use a .” speaker cable to connect your speaker cabinet to the amplifier using these jacks. If you use one speaker cabinet, use the jack labeled MAIN. If you want to run two cabinets in parallel, connect the second cabinet to the amplifier using the jack labeled EXTENSION.

NOTE – *NEVER turn your amplifier to OPERATE mode without connecting the amplifier to a speaker cabinet or suitable dummy load! Failing to do so may damage your amplifier!*

NOTE – *if you are using two speaker cabinets in parallel (ex – two 16 Ohm cabinets - 8 ohms) (ex – two 8 Ohm cabinets - 4 ohms)*

IMPEDANCE SELECTOR sets speaker impedance from 4 ohms - 8 ohms - 16 ohms

EFFECTS LOOP SEND .” instrument jack can be used to directly interface the preamp of the amp, thereby bypassing the power amplifier and using the amp as a preamp.

Conversely, this is usually used as the SEND of the effects loop. Plug the input of your effects unit, or interface device into this jack using .” instrument cable. The effects loop Send in this amplifier is active and tube driven with a level control.

EFFECTS LOOP RETURN ." instrument jack can be used to directly interface the power amp, thereby bypassing the preamp and using the amplifier as a power amplifier.

Conversely, this is usually used as the RETURN of the effects loop. Plug the output of your effects unit, or interface device into this jack using ." instrument cable. The effects loop Return in this amplifier is active and tube driven with a level control.

By using the Send and Return Level controls you can balance the correct level for your effects unit, or interface device.

EFFECTS LOOP SEND/RETURN VOLUME CONTROLS with these controls you can set the SEND level and the RETURN level. This allows you to match levels from the smallest floor effect to a large studio rack effect. These controls come after the MASTER volume on the front of the amp. As you turn up the MASTER control on the front, it effects the levels of the effects loop. A good rule of thumb is to get the sound and volume level you want to play at, then ENGAGE the effects loop and set levels. First set the SEND level to not distort your effect, if your effect has a level indicator use that, if not you will have to use your ears and make sure you are not distorting your effect with too much signal. Then using the ENGAGE button set the RETURN volume so there is no level change when the button is in or out.

ENGAGE This turns the Effects Loop on and off, the switch will go from black (off) to orange (on)

FOOT PEDAL ENGAGE This switch changes the amplifier from channel one to channel two, which is either the front row of knobs or back row of knobs on the front of the amp.

FOOT PEDAL JACK You can use the provided foot switch, or a standard 1/4" plug connected to a foot switch with a latching switch.

FOOT PEDAL The provided foot switch pedal has an indicator light which can be powered by a 9v internal battery (not included), or by the 2.1mm jack on the back of the pedal.

This jack can be powered by any standard pedal power supply with a center tip ground.

If you power it by the internal battery make sure you switch the light off when not in use or it will drain the battery.

TUBE COMPLIMENT

From right to left:

M-2000

- V1 – 12AX7/ECC83 (overdrive stages 1 and 2)
- V2 – 12AX7/ECC83 (overdrive stages 3 and 4)
- V3 - 12AX7/ECC83 (Tube Effects Loop)
- V4 – 12AX7/ECC83 (phase inverter for power amplifier)
- V5 – EL-34
- V6 – EL-34
- V7 – EL-34
- V8 – EL-34

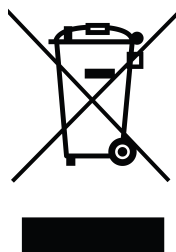
Metaltronix™

MODEL: M-2000

SERIAL #: _____

INPUT VOLTAGE: _____

Mains Voltage: **THIS CAN NOT BE SET BY CONSUMER!!!!**
(This amp can operate at 100 -120 - 220 - 240v if set internally by
approved technician)



MADE IN THE USA



EC/EU Declaration of Conformity

Document: CE – ZA-43

Manufacturer:

Metaltronix
7401 West Slaughter Lane #5019
Austin, Texas 78739
USA

We declare that the designated product (s)
Metaltronix M2000
is/are in conformity with the European Directives:

2014/30/EU EMC Directive of 26 February 2014

2011/65/EU RoHS Directive of 8 June 2011

2014/35/EU Electrical equipment designed for use within certain voltage limits

Electrical equipment designed for use within certain voltage limits
This declaration certifies compliance with the indicated directives but implies no warranty of properties. The safety instructions of the accompanying documentation shall be observed.
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Issuer:

Metaltronix
7401 West Slaughter Lane #5019
Austin, Texas 78739
USA

Place, date: Austin, Texas USA , 01.May.2019

Legally binding signature:

Lee Jackson Metaltronix Amplification