

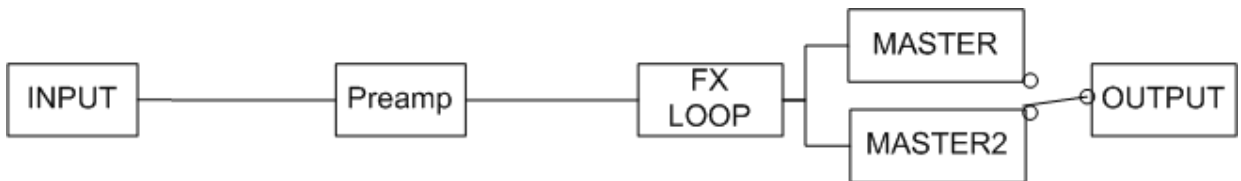


- Amps That Sing -

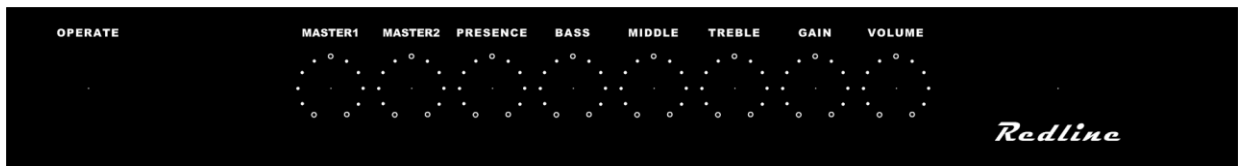
RedLine 50/100 Operations Manual

Welcome to the RedPlate Family, thank you for your purchase of a RedPlate RedLine amplifier. Please take a moment and review this manual for an understanding of all the available features (or just put all the knobs at noon and play). This Manual applies to RedLine models produced after 11/1/2015.

Signal Path Block Diagram:



FRONT PANEL:



The RedLine is designed to imitate (and surpass) all of the “classic” British style guitar amp preamps by producing a full range of tones with plenty of character and absolute control of the overall volume.

Input Jack – Typical High impedance input to the amplifier. Designed to be “Pedal Friendly”.

Volume – Typical setting is between 10 and 1 o'clock but experimentation is encouraged.

Gain – Typical setting is between 10 and 1 o'clock but experimentation is encouraged.

The combination of Volume and Gain lets you adjust the character of the channel at various volume levels for consistency of tone and character in both small and large venue sizes.

Treble Control - Adjusts highs.

Middle Control – Controls the amount of Midrange frequencies, somewhat interactive with the Bass Control..

Bass Control – Sets the amount of low end, somewhat interactive with the Middle Control.

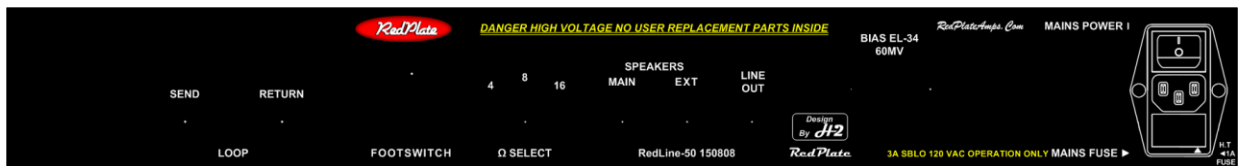
Presence Control – The presence circuit uses global negative feedback to remove low frequencies which frees up bandwidth for more midrange and highs.

Master2 Volume – Only used when footswitch is connected. This is an active control and actually adds gain at the higher settings. The cleanest tones are achieved at settings below 2 o'clock.

Master1 Volume – This is the default Master, it is an active control and actually adds gain at the higher settings. The cleanest tones are achieved at settings below 2 o'clock.

Standby/Operate Switch – This switch allows the tubes to warm up before operating the amplifier. Wait 1 minute after power on to move it up to the operate position. For improved tube life and performance do not leave the amplifier in Standby position for longer than 20 minutes (better to just leave it in operate mode during performance intermissions).

REAR PANEL SECTION



SEND and RETURN Jacks – The send jack connects to the input of an external effects device and the return jack connects to the output of an external effects device. The return jack interrupts the signal path so the external effects unit must mix the wet and dry signals.

Footswitch Jack - This is a standard ¼" for footswitch connection.

Impedance Selector Ω - Set this to the total impedance of all attached speakers.

Speaker Jacks – The MAIN and EXT jacks are wired in parallel. The MAIN jack must be used first because it has a protection device. ALWAYS HAVE A SPEAKER CONNECTED TO AVOID PERMANENT AMPLIFIER AND OUTPUT TUBE DAMAGE.

LINE OUT – A line level signal jack derived from the speaker output which contains the whole tone of the amplifier.

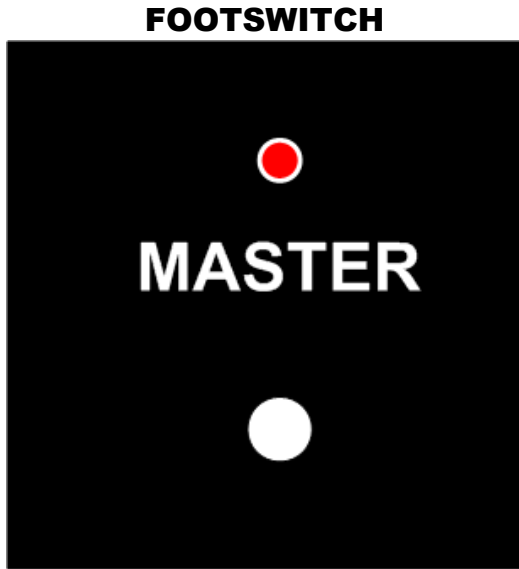
Bias adjustment and bias test point – Allows external access for bias adjustment (see bias procedure in the **Maintenance** section).

IEC Module – contains the main power switch, power cord inlet connector and the fuse drawer which contains both the MAINS as well as the H.T. fuses. To access the fuse(s) use a small flat blade screwdriver in the notch at the bottom of the power cord inlet connector, the drawer snaps out in a rearward direction. The RedLine can accept both the larger (3AG footprint) or smaller European (5mm X 20mm) fuses. A time delay variety (SLO-BLO) is recommended for the MAINS fuse. Right side fuse is a 1 amp H.T. fuse, this fuse is an extra layer of protection for the output transformer and power transformer. If this fuse blows it generally indicates an output tube failure. The left side fuse is the MAINS fuse, *observe back panel recommended fuse value.*

Bias adjustment and bias test point – Allows external access for bias adjustment (see bias procedure in the **Maintenance** section).

OTHER FEATURES

The RedLine comes complete with a footswitch:



MASTER – Light on = Master1 control is active, Light off = Master2 control is active.

POWER ON/OFF PROCEDURE

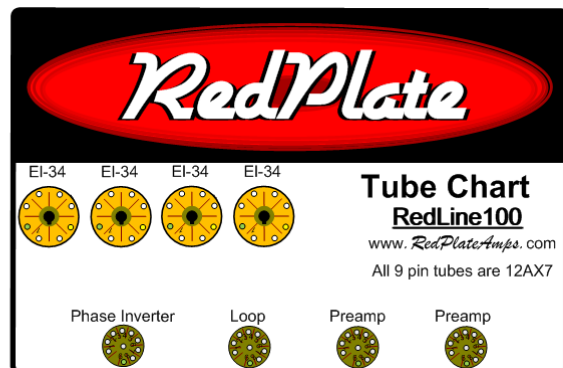
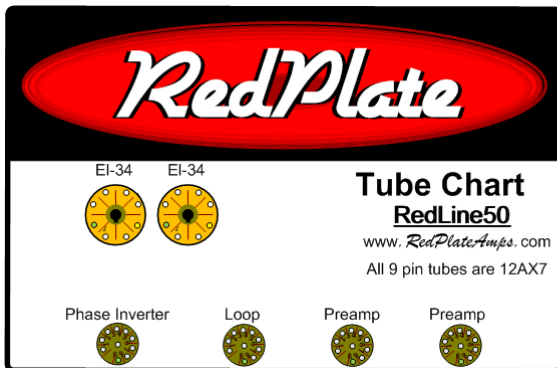
1. Check the Standby switch to make sure it is toggled downward for Standby operation.
2. Toggle the main power switch to the up position (this switch is located at the top of the IEC input module). The front panel pilot light should be lit.
3. Wait one minute and then toggle the Standby switch upwards to the Operate position.
4. **POWER OFF** – Toggle the main power switch downward, there is no need to go into standby first although it will not hurt anything.

MAINTENANCE SECTION

Your RedLine amp has been designed for years of trouble free operation. The vacuum tubes will need to be replaced over time. We recommend new output tubes every 160 - 240 hours and new preamp tubes every 320 - 480 hours.

The front and rear panels have a protective finish that can be easily scratched with abrasives so always use a damp soft cloth to clean them (never use paper towels).

TUBE CHART



All tube brands are acceptable, a long plate is preferred in the V5 (Phase Inverter) position.

Warning – No user serviceable parts inside so unless you know what you’re doing please refer to a qualified service person only.

Luckily for you – this amp can be biased without going inside.

BIAS PROCEDURE

1. When new EL-34 output tubes are installed it is important to re-bias the amp for optimal performance.
2. ALWAYS HAVE A SPEAKER CONNECTED.
3. Use a digital volt meter set to DC volts at lowest scale (MV). Make sure the black lead is the common terminal of the meter and the red lead is the DC voltage terminal of the meter.
4. Place the Amplifier in operate mode with the Master Volumes set to zero.
5. Place the red meter lead in the test point hole (red tip jack) and touch (or clip) the black meter lead on one of the metal output tube retainer clips, one of the chassis mount screw heads or anywhere that gets the meter at chassis ground.
6. Use a small flat blade screwdriver to adjust the bias pot for the bias number as stated on the rear panel (± 5 MV). The reading is the sum of the idle current for all EL-34 tubes.
7. Recheck the reading after 10 minutes of operation, and again after a week or two of operation.

RedPlateAmps Warranty

At RedPlateAmps we pride ourselves making products that are built to last. The workmanship in your RedPlate amplifier is warranted to be problem free for the lifetime of the original owner. The actual electrical components in your amplifier are warranted for a period of 3 years. Exclusions are vacuum tubes, reverb tanks, cables, speakers and cosmetics which are warranted for 30 days. Improper handling or product misuse or product abuse or unauthorized repair work or unauthorized modifications may nullify your warranty. Eligibility for coverage and covered items are at the sole discretion of RedPlateAmps.

RedPlateAmps

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Thanks again for joining the RedPlate Family – Henry