

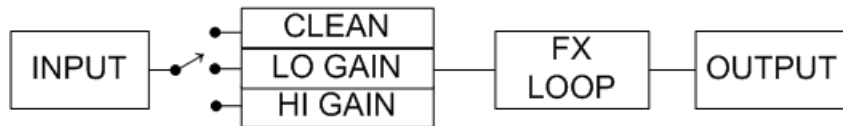


- Amps That Sing -

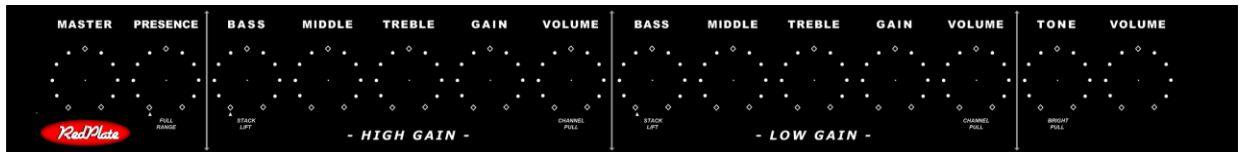
ShredPlate Operations Manual

Welcome to the RedPlate Family, thank you for your purchase of a RedPlate ShredPlate 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 ShredPlate models produced after 02/01/2012.

Signal Path Block Diagram:

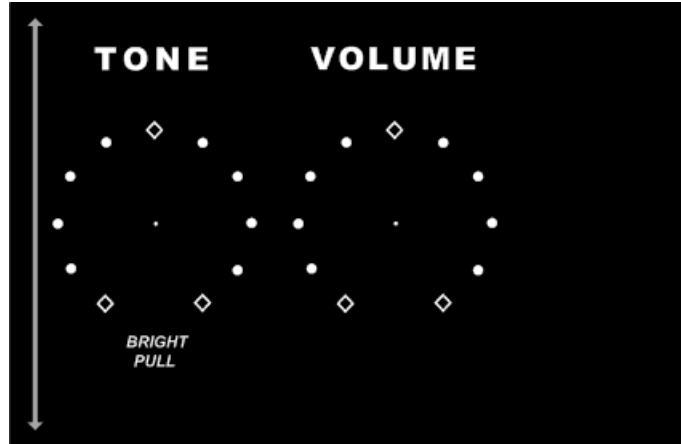


FRONT PANEL:



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

CLEAN PREAMP SECTION

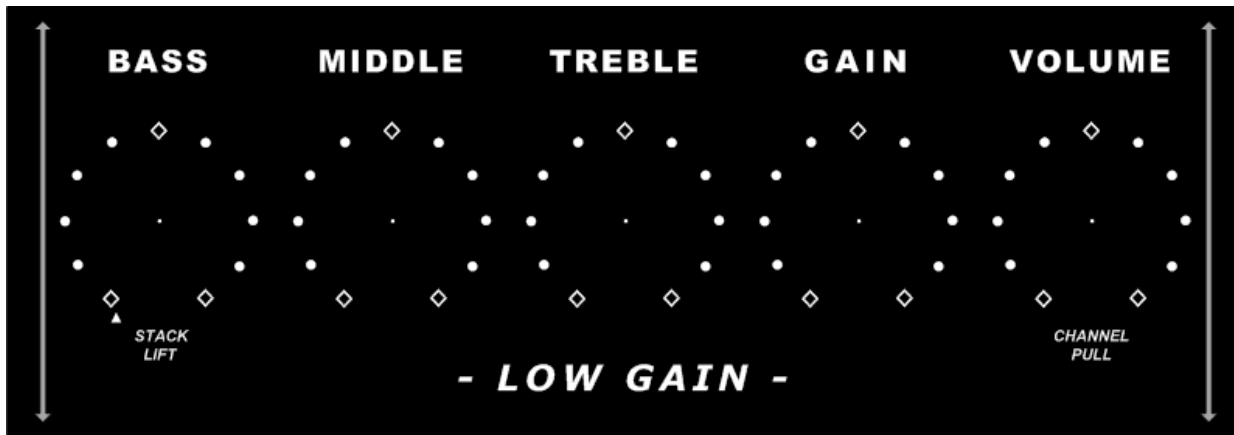


The Clean Preamp is designed to provide a basic full range clean tone with plenty of clear overtones.

Volume – Typical setting is between 10 and 1 o'clock but experimentation is encouraged. Headroom is adjustable via an internal trim pot. (The trim pot location is covered in the **Other Features** Section of this manual).

Tone Control - Adjusts the balance between highs and lows, engages a Bright function when pulled.

LO GAIN PREAMP SECTION



The LO GAIN Preamp Section is a slightly hot-rodded version of the popular European Style amplifier preamp with two important differences:

1. 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.
2. The BYPASS feature of the Bass control bypasses the tone controls for even more "Girth".

Volume – Pulls for channel selection and sets the overall volume of the LO GAIN channel.

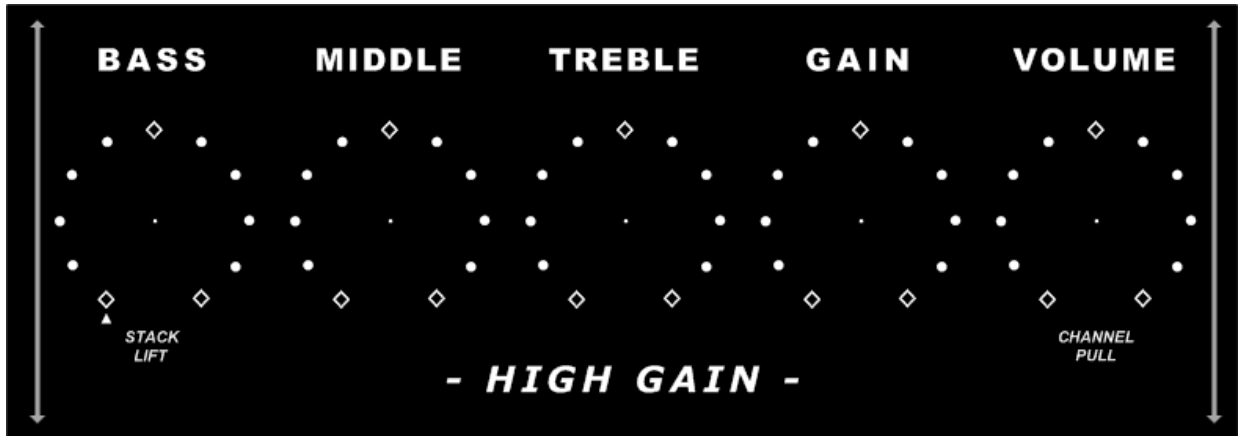
Gain – This control sets the amount of break up character you desire in your tone. Typical setting is between 2 and 4 o'clock but experimentation is encouraged.

Treble Control – Adjusts the balance of high and low frequencies.

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

Bass Control – Sets the amount of low end. Can be rotated to zero where it clicks off for a full tone stack lift (Tone Controls are Bypassed).

HI GAIN PREAMP SECTION



The HI GAIN Preamp Section is another variation of the popular European Style preamp with even higher gain and sustain. Like the LO GAIN channel it has the same features:

1. 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.
2. The BYPASS feature of the Bass control bypasses the tone controls for even more “Girth”.

Volume – Pulls for channel selection and sets the overall volume of the HI GAIN channel.

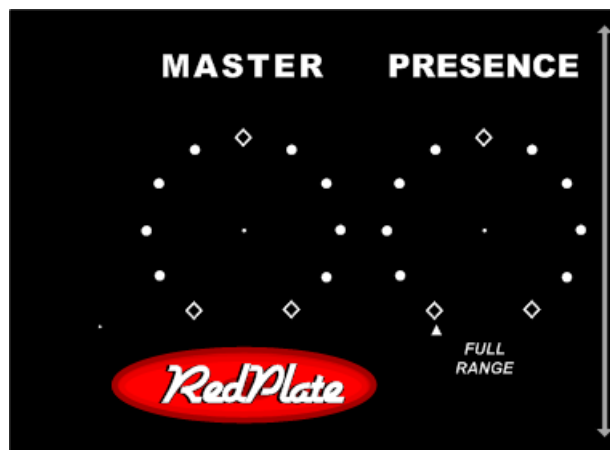
Gain – This control sets the amount of break up character you desire in your tone. Typical setting is around noon but experimentation is encouraged.

Treble Control – Adjusts the balance of high and low frequencies.

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

Bass Control – Sets the amount of low end. Can be rotated to zero where it clicks off for a full tone stack lift (Tone Controls are Bypassed).

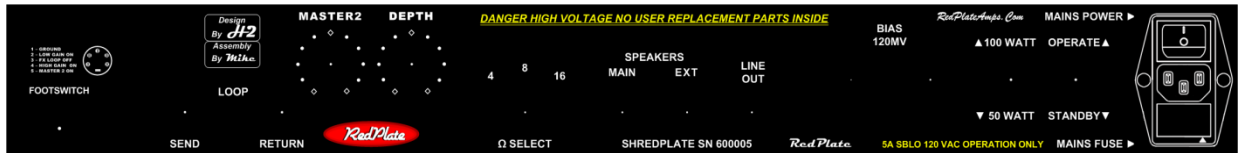
MASTER SECTION



Presence Control – The presence circuit uses global negative feedback to remove low frequencies which frees up bandwidth for more midrange and highs. The effect of this control is altered by the setting of the rear panel DEPTH control (See the REAR PANEL section for details). The control clicks off when rotated to zero for no presence.

Master Volume – This is an active control and actually adds gain at the higher settings. The cleanest tones are achieved at settings below 2 o'clock. There is a second Master on the rear panel (See the REAR PANEL section for details).

REAR PANEL SECTION



IEC Module – contains the main power switch, power cord inlet connector and the fuse drawer which doubles as the voltage selector on export models. 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 ShredPlate can accept both the larger (3AG footprint) or smaller European (5mm X 20mm) fuses. A time delay variety (SLO-BLO) is recommended. *When the export version becomes available, the fuse drawer can be rotated for voltage selection, make sure the correct value fuse is located on the same side of the fuse drawer as the desired selection arrow. Line up the appropriate arrow on the fuse drawer with the arrow on the bottom right of the module for the proper VAC selection.*

Standby 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).

100 WATT / 50 WATT Switch – This switch changes the output tube by lifting the center pair of output tubes (V8 & V9) enough to be irrelevant. The impedance selector does not have to be changed in 50 watt mode.

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

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

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.

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

Depth Control – Works within the presence circuit to adjust the contour of negative feedback, higher settings allow more low bass to come through. The control has no effect when the front panel Presence control is rotated to the bypass position.

Master2 Control – When engaged with the footswitch it is identical to the front panel Master Control. Useful for setting a solo volume boost.

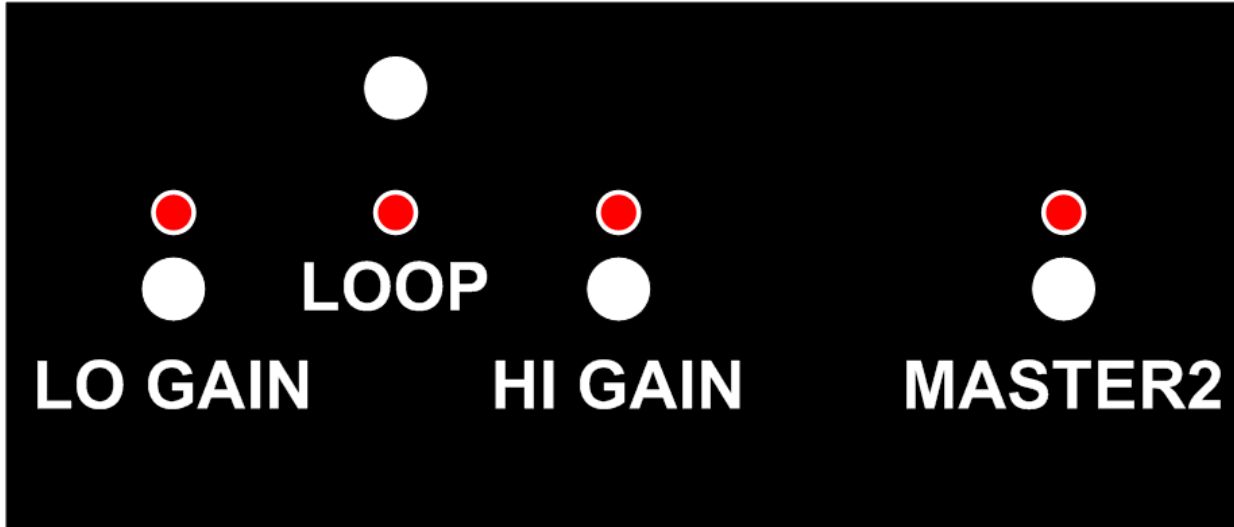
SEND and RETURN Jacks – The send jack connects to the input of an external effects device and the return jack connects to the output of an external effects device. The return jack interrupts the signal path so the external effects unit must mix the wet and dry signals.

Footswitch Jack - This is a standard 180 degree 5 pin DIN jack for footswitch connection. If a replacement cable is needed, make sure all 5 wires are supported. The pinout is conveniently located on the rear panel for use with automated switcher conversion boxes.

OTHER FEATURES

The ShredPlate comes complete with a 4 button footswitch and a footswitch cable. The cable used is a regular MIDI cable and is readily available in any length at most music stores.

FOOTSWITCH



LO GAIN – engages the LO GAIN Channel – the footswitch has no effect if the Volume control on the LO GAIN channel is pulled out (duplicate function) or if the HI GAIN channel is already engaged (HI GAIN Volume control is pulled out or HI GAIN footswitch button is pressed). The HI GAIN channel always has priority.

LOOP – (All Channels) Light on = normal operation, Light off = Loop jacks are bypassed, bypassing all effects in the Loop.

HI GAIN – engages the HI GAIN Channel – the footswitch has no effect if the Volume control on the HI GAIN channel is pulled out (duplicate function). The HI GAIN footswitch will override the LO GAIN footswitch. The HI GAIN channel always has priority.

MASTER2 – (All Channels) enables the rear panel Master2 Control (Solo Boost).

POWER ON/OFF PROCEDURE

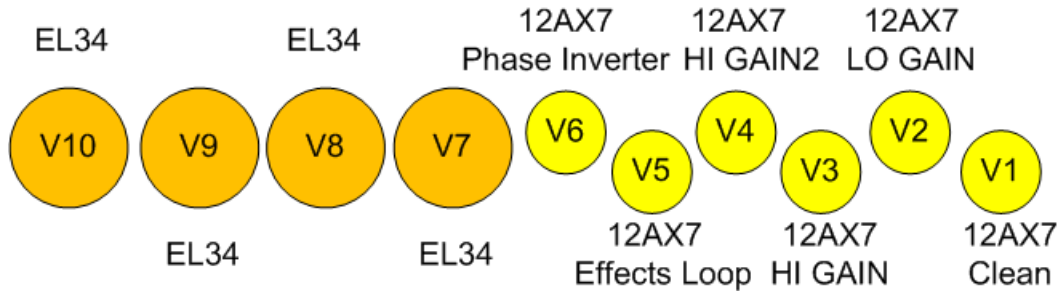
1. Check the Standby switch to make sure it is toggled downward for Standby operation.
2. Toggle the main power switch to the up position (this switch is located at the top of the IEC input module). The front panel pilot light should be lit.
3. Wait one minute and then toggle the Standby switch upwards 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 ShredPlate 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). The cabinetry can be cleaned with our super secret tolex cleaner (on a paper towel - 2 squirts of WD-40 and 4 squirts window cleaner), let your keyboard player try it on his plastic keys, it replicates the feel of a brand new keyboard, also a great cable cleaner.

TUBE LAYOUT



All tube brands are acceptable, a long plate is preferred in the V6 (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.

BIAS PROCEDURE

1. When new EL34 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 Volume set to zero.
5. Set the 100 WATT/ 50 WATT switch to the 100 WATT position.
6. 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.
7. 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 4 tubes.
8. Recheck the reading after 10 minutes of operation, and again after a week or two of operation.

INTERNAL TRIM POTS



The ShredPlate has 2 internal trim pots:

1. Clean Headroom – can be adjusted to match your guitars pickup output so your clean tone has the desired amount of character.
2. PI Balance – Useful for working with unmatched 12AX7 tubes in the phase inverter position. Refer to qualified personnel for proper setting.

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, or in the event of resale a onetime transfer to a new owner for coverage for 3 years from the original manufacture date (please inform us of an ownership change to insure coverage). 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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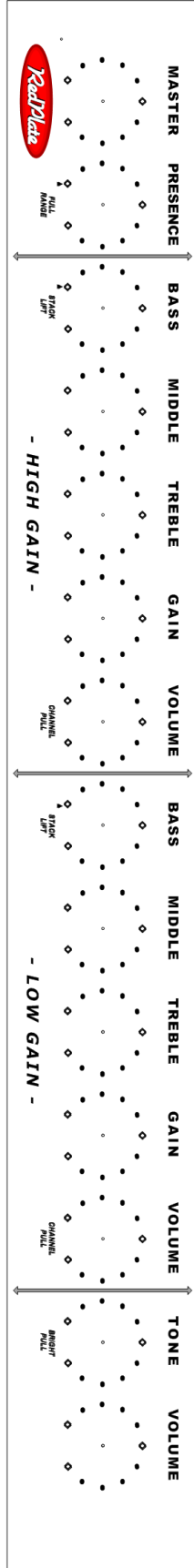
email: info@RedPlateAmps.com

Thanks again for joining the RedPlate Family – Henry

BONUS SECTION - SETTINGS TEMPLATE

[Check the website for future updates to this section]

Copy or print the next page to record your settings. Once you've zeroed in on your signature setting please email the completed template to Info@RedPlateAmps.com – we may include your favorite in the online version of this manual.



LOOP

LO GAIN HI GAIN MASTER2

