

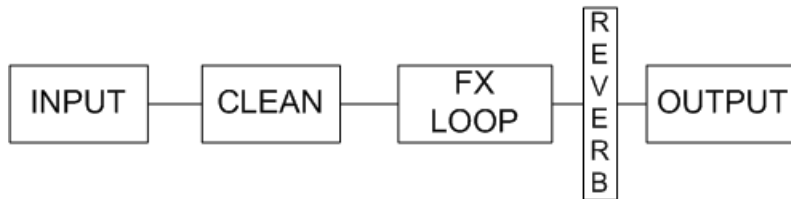


*- Amps That Sing -*

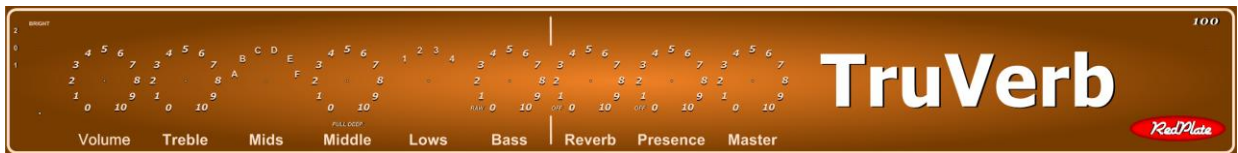
## **TruVerb Standard Operations Manual**

Welcome to the RedPlate Family, thank you for your purchase of a RedPlate TruVerb Standard 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 TruVerb models produced after 06/01/2011. See the **Addendum Section** for newer TruVerb model differences.

### **Signal Path Block Diagram:**

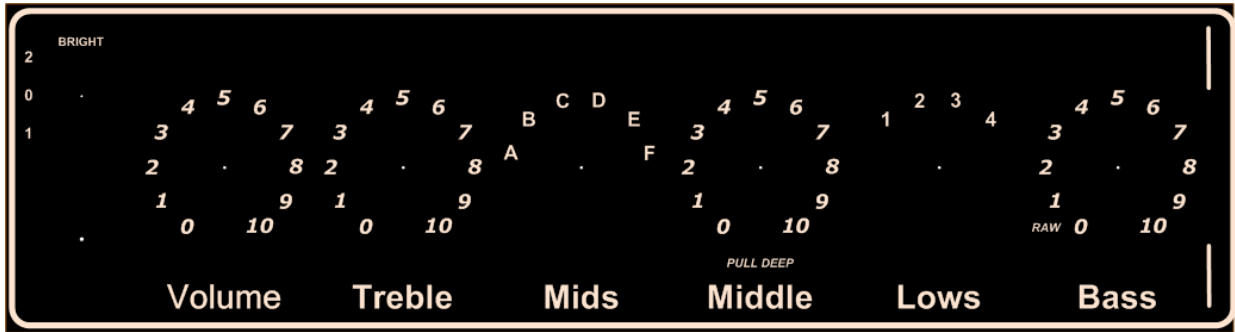


### **FRONT PANEL:**



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

## CLEAN PREAMP SECTION



The Clean Preamp is designed to imitate (and surpass) all of the “classic” guitar amp preamps. The TruVerb gives the player the ability to do three unique things:

1. Shift the midrange center point frequency via the Mids control.
2. Select the amount of Bass gain appropriate to your guitar choice via the Lows control.
3. Bypass the tone stack by doing a full stack lift when bass control is rotated to zero.

**Bright Switch** – Center = OFF, Down = sound of new strings, Up = normal Bright response.

**Volume** – Typical setting is between 3 and 5 but experimentation is encouraged.

**Treble Control** - Adjusts highs

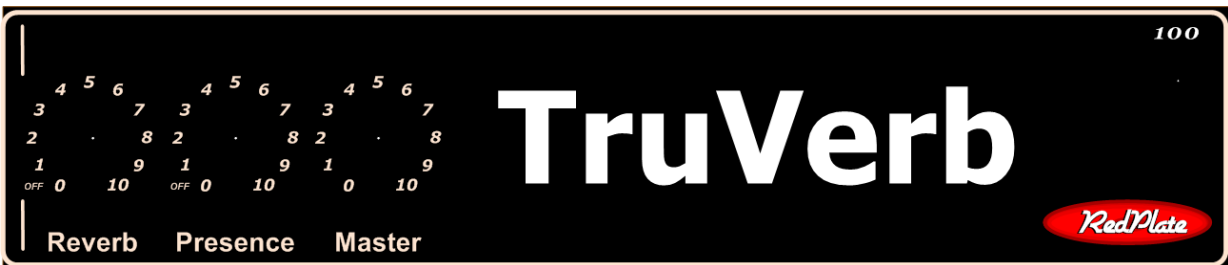
**Mids Selector** – A six position rotary switch, it steps through 5 progressively fatter positions of the midrange center frequency and achieves maximum fat midrange by engaging a mid boost in position 6

**Middle Control** – Controls the amount of Midrange frequencies, somewhat interactive with the Bass Control. Pulls to enable “Deep” which scoops some midrange frequencies and emphasizes Bass (makes your electric sound more like an acoustic).

**Lows Selector** – A four position rotary switch, it steps through 4 progressively fatter positions of bass gain.

**Bass Control** – Sets the amount of bass frequencies. Can be rotated to zero where it clicks off for a full tone stack lift.

## MASTER SECTION



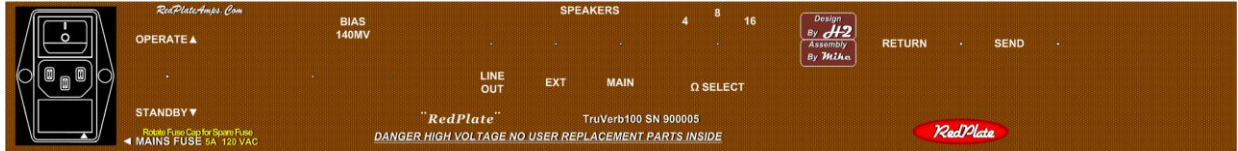
**Reverb Control** - Sets the amount of reverberation effect, takes the reverb out of circuit when rotated to zero (there will be a slight volume and tone change).

**Presence Control** – The presence circuit uses global negative feedback to remove low frequencies which frees up bandwidth for more midrange and highs. Think of it as a tone control to balance the relationship between highs and lows, especially when the amplifier is naturally

producing increased low end at louder volumes. 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 7.

## 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 TruVerb can accept both the larger (3AG footprint) or smaller European (5mm X 20mm) fuses. A time delay variety (SLO-BLO) is recommended. *The fuse drawer can be rotated on the export model (not shown) for voltage selection, make sure the correct value fuse (as listed on the rear panel) 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).

**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  $\Omega$**  - Set this to the total impedance of all attached speakers.

**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.

## POWER ON/OFF PROCEDURE

1. Check the Standby switch to make sure it is toggled downward for Standby.
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.

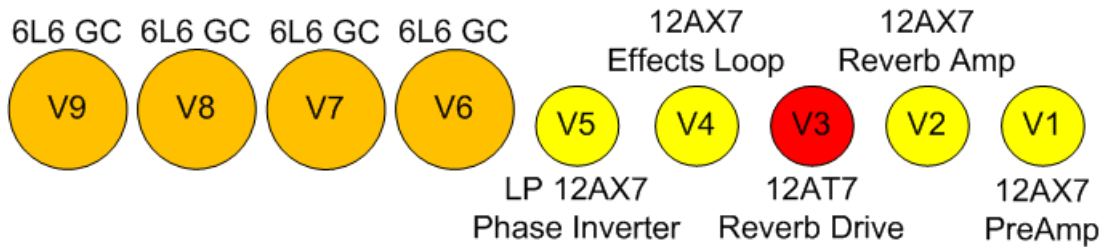
4. POWER OFF – Toggle the main power switch downward, there is no need to go into standby first although it will not hurt anything.

### **MAINTENANCE SECTION**

Your TruVerb 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.

### **TUBE LAYOUT**



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

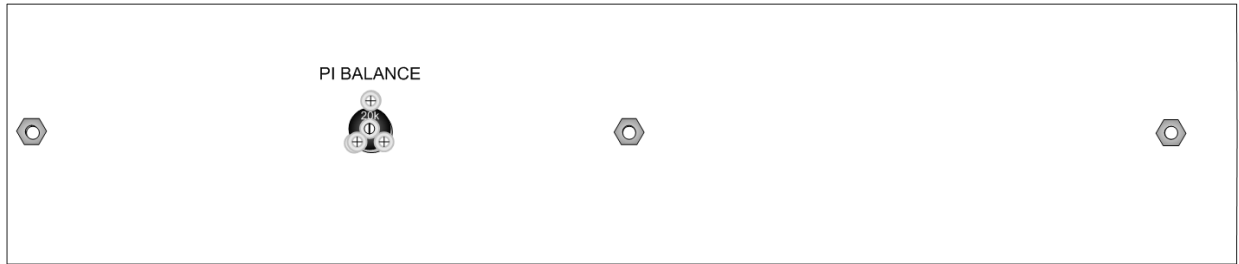
**Warning – No user serviceable parts inside so unless you know what you’re doing please refer to a qualified service person only.**

### **BIAS PROCEDURE**

See Addendum for TruVerb88 bias procedure

1. When new 6L6 GC output tubes are installed it is important to re-bias the amp for optimal performance. No biasing needed for 6V6 tubes because they can only be used in cathode bias position.
2. ALWAYS HAVE A SPEAKER CONNECTED.
3. Use a digital volt meter set to DC volts at lowest scale (MV). Makes sure the black lead is the common terminal of the meter and the read lead is the DC voltage terminal of the meter.
4. Place the Amplifier in operate mode with the Master Volume and Reverb controls 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.
6. Use a small flat blade screwdriver to adjust the bias pot for a reading of 140MV  $\pm$  5 MV (FYI - the plate voltage is 470 volts). The reading is the sum of the idle current for all four 6L6 tubes.
7. Recheck the reading after 10 minutes of operation, and again after a week or two of operation.

## **INTERNAL TRIM POT**



The TruVerb has an internal trim pot for the Phase Inverter tube balance – Useful for working with unmatched 12AX7 tubes in the phase inverter position. Refer to qualified personnel for proper adjustment.

### **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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Thanks again for joining the RedPlate Family – Henry

### **ADDENDUM**

Re: Model changes - **TruVerb+** coming soon.(with Edge Boost section).