



VICTORY V40 Deluxe 'The Duchess' All Valve 40 Watt Guitar Head



User Guide

Thank you, and congratulations on acquiring a Victory Amplification V40 Deluxe. This amp is proudly designed and built by our committed team of engineers and craftsmen in the UK.

We value simplicity in operation, flexibility in use and absolutely no compromise in tone. Our aim is simple: to create amplifiers that inspire you ever onwards in your playing and never let you down.

SAFETY FIRST

We want you to enjoy your amplifier to the best of its potential. So please...

Before you go any further, take a moment to read these **SAFETY INSTRUCTIONS**

- Read these guidelines & keep them
- Follow all instructions & guidelines
- Do not use this amplifier near water or any other liquid
- Do not block any openings
- Do not attempt to clean the amplifier with any fluids: use only a dry cloth
- Do not attempt to modify or service this product yourself
- Removing covers could mean you are exposed to dangerous voltages that may result in severe injury or death
- Refer all servicing to qualified service personnel
- Damage Requiring Service: Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - (a) When the power-supply cord or plug is damaged;
 - (b) If liquid has been spilled, or objects have fallen into the product;
 - (c) If the product has been exposed to rain or water;
 - (d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation;
 - (e) If the product has been dropped or damaged in any way;
 - (f) When the product exhibits a distinct change in performance - this indicates a need for service.
- Replacement Parts: When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

What's included?

Your new Victory V40 Deluxe comes with the following:

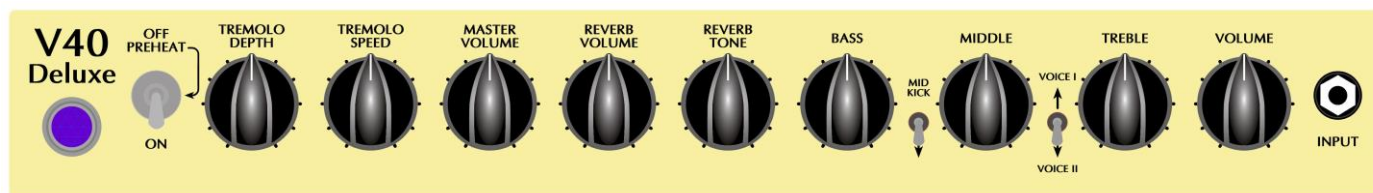
1 x Dual Latching Footswitch for Tremolo, (TIP) & Reverb, (RING).

A mains lead for your country

A Vinyl Dust Cover

This User Guide

FRONT PANEL



Power Lamp with Jewel

When lit, this indicates that mains power has been applied to the amplifier. It houses a 6.3V 10mm bayonet filament bulb which can be replaced by unscrewing the jewel from the front.

OFF – PREHEAT – ON Switch,

Ensure this switch is in the up, (OFF) position before applying mains power. Then switch to the center position, (PREHEAT). The amplifier is now in 'PREHEAT' or 'STANDBY' mode with just the valve heaters and low voltages on. This allows the valves to heat up before they get 100s of volts up them, (it's less of a shock). After around 60 seconds, the amp can be switched to the down, 'ON' position. Due to recent EU regulations on the use of Standby functions and their associated low-power requirements, we are replacing this function with PREHEAT to avoid any legal confusion. There will be no difference in operation of the amplifier. When switching the amplifier ON or OFF please ensure the Volumes are turned down and you leave at least 30 seconds before switching from Standby to Off. This will ensure extended valve life and avoid any power-down noise. This is especially relevant if you're running through a large PA system as any small pop may become amplified to audience damage levels, which may limit your music career.

Tremolo Depth.

This controls the Amplitude Modulation of the Tremolo effect, turning the volume of the output stage up and down continuously to varying degrees depending on where the control is set. Basically, it controls the amount of Tremolo effect.

Tremolo Speed.

This controls the speed of the Tremolo effect. Please experiment in conjunction with the Depth control to find the most pleasing settings for your sound.

Master

The Master Volume control is used to set the stage or overall volume of the V40D. If this is turned to maximum, then the V40D becomes a non-master volume amplifier where the Input Volume control in conjunction with the Volume control on the guitar allows for a wide range of Volumes & Gains to be achieved. This can be very powerful for tone shaping.

The Master Volume control is positioned after the phase splitter valve and so turning up the Input Volume control allows for overdriving the first part of the power output stage.

Reverb Volume

The V40D has a built-in valve-driven Spring Reverb and this control varies the amount of Reverb added to the guitar signal.

Reverb Tone.

This control adjusts the high frequency content of the built in spring Reverb. Again, please experiment to get the desired effect.

Bass

The Bass controls the low frequency content of your sound. Higher levels of bass can be good at low volumes, but take care when running the amp louder – you may find you need to reduce the bass control. As with all the EQ pots, adjust to taste!

Mid Kick switch

When switched ON, (downwards), this will add more lower mid-range frequencies while boosting them at the same time, allowing the Middle Knob to have a wider sweep and range of frequencies to control.

Middle

Controls the midrange frequencies in your sound. Run the middle control higher to help cut through a band mix, or generally fatten and 'widen' your sound. Run it lower for a lighter, less 'in-your-face' kind of sound.

Voice I/II switch

Switched to Voice I, the V40D has a relatively flat response for an American Style sound. Switching to Voice II adds more upper mid-range frequencies into the mix for a more traditional British Style sound.

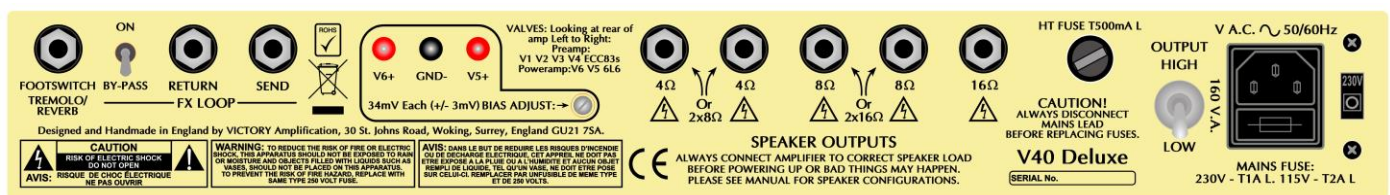
Treble

Controls the high frequency content of your sound and is also a powerful tone shaper when it comes to overdrive character.

Input

Plug your guitar in here!

REAR PANEL



Footswitch socket

TREMOLO/REVERB. Connect the supplied dual latching footswitch here to select TREMOLO On/Off and REVERB On/Off.

Effects Loop

The V40D has an effects loop, which is a simple, low impedance, series loop.

The By-Pass switch completely disables the Effects loop for 'True-Bypass' Please ensure this switch is in the up, 'ON' position if you want to use effects in the Loop.

The RETURN socket is for connection to the output of effects units. When not used it is internally connected to the SEND, therefore the EFFECTS LOOP can be ignored if not in use. It can also be used as a small signal 'Slave' input from another amplifier but **DO NOT** plug an amplifier's speaker output into the Return socket or very bad things will happen.

The RETURN socket is also very useful for fault diagnosis. If your V40D doesn't produce any sound when played, plug the guitar directly into the RETURN socket and play. This bypasses the entire pre-amplifier section and sends the guitar signal through just the output stage. If sound is now heard then the problem is in the pre-amp section and is likely to be a faulty pre-amp valve.

The SEND socket is for connection to the input of effects units. On the V40D it is a lower impedance version of the signal that appears at the INPUT. Use the send to connect to floor pedals or rack effects such as Delay, Chorus and Reverb etc. Effects such as Overdrive, Fuzz, Wah Wah and Tuners often give better results plugged into the Instrument Input on the front panel. The Send socket can also be used on its own to send a signal to another amplifier.

Biasing:

Biasing needs to be done each time the output valves are replaced and should be checked periodically to make sure they are working at their optimum for sound quality & valve life. To set the Bias on the V40D you need a multimeter set to the 200mV DC range. Biasing is carried out externally so no need to remove the amp from the wooden sleeve. Output valves can be replaced from the rear of the amp by simply removing the back grill

and carefully sliding off the valve spring retainers. We recommend the use of a soft cloth to remove valves if possible. The valves can then be pulled out using a slow rotational movement, (dweezling) to ease them from their sockets. This will free them with the least amount of effort and stress. Ensure that the key on the replacement valves lines up with the keyway on the socket before carefully pushing them home. Take care when removing any valve as the pins can easily be bent and the plastic locating key on the output valves can be snapped off. Make sure that they are never more than a few degrees from vertical to avoid bending or breaking pins etc.

Always buy matched pairs of output valves or Biasing may be difficult if not impossible. To Bias the new valves, make sure the amplifier is connected to a speaker cabinet, (or dummy load resistor). Turn all controls to zero and remove the guitar input as any signals may interfere with the Bias settings. Switch to High power using the rear toggle switch and then into PREHEAT mode using the front toggle switch. Wait 60 seconds and then switch to ON.

Now put the black meter probe, (-ve) into the Black centre GND Bias socket and the red meter probe, (+ve) into the left hand V6+ Bias socket. Using a small flat blade screwdriver in the Bias adjustment POT, turn this so you get 34mV on the multimeter. This equates to 34mA of current per valve as we are measuring the voltage across a 1 Ohm resistor. Now put the red meter probe into the right hand V5+ Bias socket and measure the voltage. Try to balance the 2 measurements around 34mV with a maximum of 6mV between them. For example, an extreme but perfectly acceptable case would be 31mV for V6+ & 37mV for V5+.

All Victory amplifiers are constructed using Posidrive Screws & Machine Bolts. These are an improvement on the Phillips type of fixing which uses a 4-blade screwdriver. The Posidrive uses an 8-Blade screwdriver which allows for more precision and higher torque. Please try to use Posidrive Screwdrivers when working on a Victory amplifier. These are readily available from all good tool suppliers. We recommend having a No.1 and a No.2 point Posidrive screwdriver.

Speaker Outputs

PLEASE NOTE: The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock. Terminals labelled as "Speaker Outputs" must be connected to a speaker cabinet of the designated load rating using an un-shielded two conductor cable for speaker use at all times during operation. Never use a guitar cable to connect the amplifier to a speaker as this presents the amplifier with a 'capacitive load'. This can cause instability or oscillation which may seriously damage valves and/or the expensive output transformer.

Always ensure a speaker is connected to the amplifier before powering up or damage to the output transformer may result. Never unplug a speaker when the amplifier is ON as this is even more likely to damage the transformer and the output valves.

The output transformer in the V40D has 3 separate secondary windings; a 16 Ohm, an 8 Ohm and a 4 Ohm. This makes it easy to connect many different combinations of speakers. There are five speaker output jacks: 1 x 16 ohms, 2 x 8 ohms, (wired in parallel), 2 x 4 ohms, (wired in parallel).

So here are all the possible combinations:

1. For a single 4 Ohm cabinet, use either of the 4 Ohm sockets.
2. For a single 8 Ohm cabinet, use either of the 8 Ohm sockets.
3. For a single 16 Ohm cabinet, use the 16 Ohm socket.
4. For a pair of 8 Ohm cabinets, use both of the 4 Ohm sockets
5. For a pair of 16 Ohm cabinets, use both of the 8 Ohm sockets.

Always ensure a speaker is connected to the amplifier before powering up or damage to the output transformer may result. Never unplug a speaker when the amplifier is ON as this is even more likely to damage the transformer and the output valves.

HT fuse

The HT or 'High Tension' fuse protects the high voltage for the valve supply. If this fuse blows, the first step is to replace it with an identical T500mA 20x5mm fuse. The HT fuse may sometimes blow due to 'flash-over' inside an output valve. This is where during the manufacturing process, not all of the gas is removed from the glass envelope and the 'getter' inside the valve, usually made from barium or magnesium oxide, will burn or evaporate these remaining gasses resulting in the common silvered internal surface of the valve. This process, which is more likely to happen with new equipment, draws high current momentarily and can blow the HT fuse. It will rarely cause any damage so just replacing the fuse is sufficient to get the amp running normally again.

However, if the HT fuse blows again, it may indicate a serious valve failure where internal parts of a valve are shorted and in this case the amplifier needs to be checked by a qualified engineer to assess the problem.

Output power switch

You can run your V40D at either high or low power. This switches between full high tension voltage and around 60 per cent of the high tension voltage, thus lowering the output power to around 7 watts and enabling the output stage to be pushed into overdrive much more easily.

Mains Inlet, (IEC Socket) & Mains Fuse

Please only use the correct mains cord for your territory! Ensure the V40D is switched to the OFF position using the front toggle switch before plugging the mains lead in this socket.

The mains fuse is located in a small tray under the inlet which can be removed using a small flat blade screwdriver. Please note where this fuse is located in the tray before replacing it with the correct type and value for your territory.

Voltage selector

Selects the correct mains voltage for your territory. Please refer to a qualified technician before even thinking about moving this switch. If you do find yourself in foreign climes where the mains voltage is different to home, (and the water tastes funny), it will be necessary to switch this selector. The mains fuse must always be changed at the same time. Failure to do this will result in either the mains fuse blowing as soon as the amp is turned on or the amp running with a fuse that is of too high a value to provide adequate safety protection. Generally, the fuse value will double if the mains voltage is halved, (i.e. if it's a 1A fuse in the UK @ 230V, it will need to be a 2A fuse for the USA @ 115V). Always use the correct rating and type of fuse. Victory amplifiers exclusively use UL-approved 20x5mm glass 'T' or 'Timed' fuses. If you have difficulty acquiring the correct fuses, please contact Victory using service@victoryamps.co.uk.

Amplifier Dimensions:

SIZE (mm): 480(w) x 235(h) x 235(d) Unboxed. 600(w) x 350(h) x 370(d) Boxed.

Weight: 12.5Kgs Unboxed. 16Kgs Boxed

Output Power

The following measurements were taken at 240V mains input into an 8 Ohm load using a 1 KHz Sine Wave with the output waveforms set just before clipping:

High Power: 40 Watts

Low Power: 7 Watts

Valves: 4 x ECC83, (12AX7), 2 x 6L6

Notes on output volume and speaker attenuation:

Victory amplifiers are designed to be played loud with gigging and rehearsal in mind. It can be difficult to get suitable volumes and tones from the V40D at home or 'bedroom' levels even in the lower power settings. The nature of valve amps and the POTs used to control the signal is such that they only really start to work when turned up. However,

many Victory users have had great success with speaker power-soaks and simulators. The simplest ones are low-cost attenuators such as the Jet City 'Jettenuator' which simply soaks up the output power of the amplifier allowing only some of the signal to reach your speaker(s). This allows you to really crank the amplifier up into output valve distortion to get big-stage overdrive without disturbing anyone.

Victory takes no responsibility for any physical or verbal abuse that may result from your playing.

https://www.thomann.de/gb/jet_city_amplification_jettenuator.htm?gip=1&gclid=CKjxmLe-ktICFegc7QodK6IlnA

For home studio recording and speaker attenuation, at the top end of the market, we have the Two Notes Torpedo range of attenuators & simulators. These are really excellent devices and are what my colleague Rabea Massaad uses for home recording:

<https://www.andertons.co.uk/search?query=torpedo>

There are many others out there with Palmer being one of the first companies to offer such devices. These are tried and tested solutions and also recommended by Victory:

<https://www.andertons.co.uk/b/139/palmer>

Warranty

All Victory products come with a 5 year limited warranty. This covers any defects in manufacturing or faulty components. Valves and speakers are warrantied for 90 days from the purchase date but replacement parts will be at our discretion. Please contact your local dealer if you have any issues with your Victory product. Victory are setting up Official Service Centres around the world so please check on the Victory website to see where your nearest centre is located. These will have original Victory spare parts including the recommended valves for your amplifier direct from the Victory factory. They also have all technical details for your product and have been carefully selected to ensure you get the best possible service for warranty and non-warranty work.

Notes on what to do if your amplifier experiences any strange behavior:

May 2017: over 3000 amplifiers have now been shipped out of the factory and from 3 years answering service queries, the only real issues that come up are valve-related. These are either premature valve failure, (minimal), valves that have worn out through extended use or have become microphonic or noisy over time.

Many issues relating to valves can be cured simply by re-tensioning the valve bases. Over time, the valve sockets, which are constantly heating up, cooling down, expanding and

contracting may become a bit 'loose' and not hold the valve pins as tight as they should. This can lead to noise and more commonly, sudden drops in volume or complete lack of sound.

It is an easy task to re-tension the valve sockets and this can be done with a small flat blade screwdriver such as this:

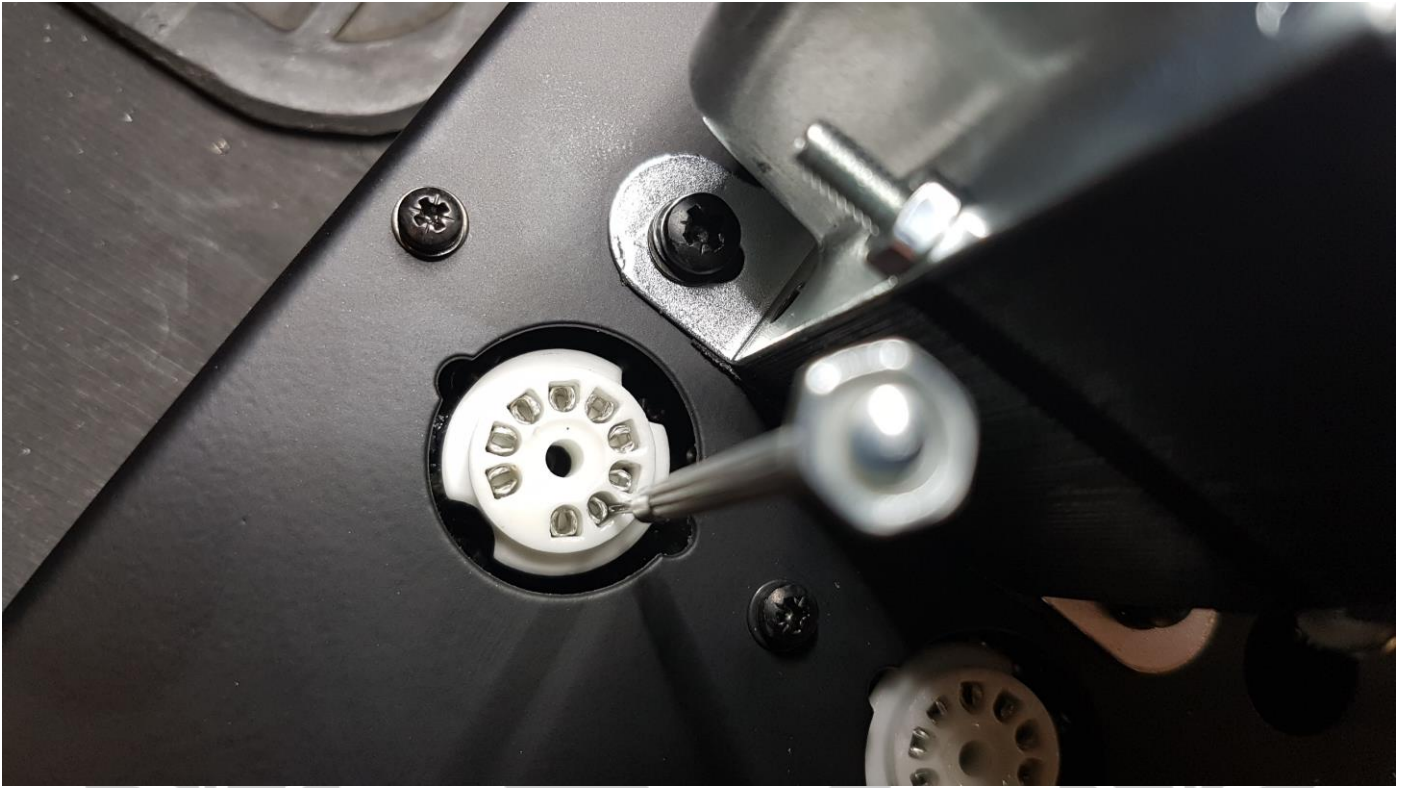


Important! Please ensure the amplifier is not plugged into the mains and has been off for at least 30 minutes before removing any valves so all of the high voltages have dissipated. Carefully remove each valve in turn. The pre-amp valves have a sprung-loaded screening can fitted over each one so turn this through 90 degrees or so until it pops off. Then using the slow circular motion, pull the valve from the socket. The output valves are retained by spring clips which can just be slid off the top of the valves.

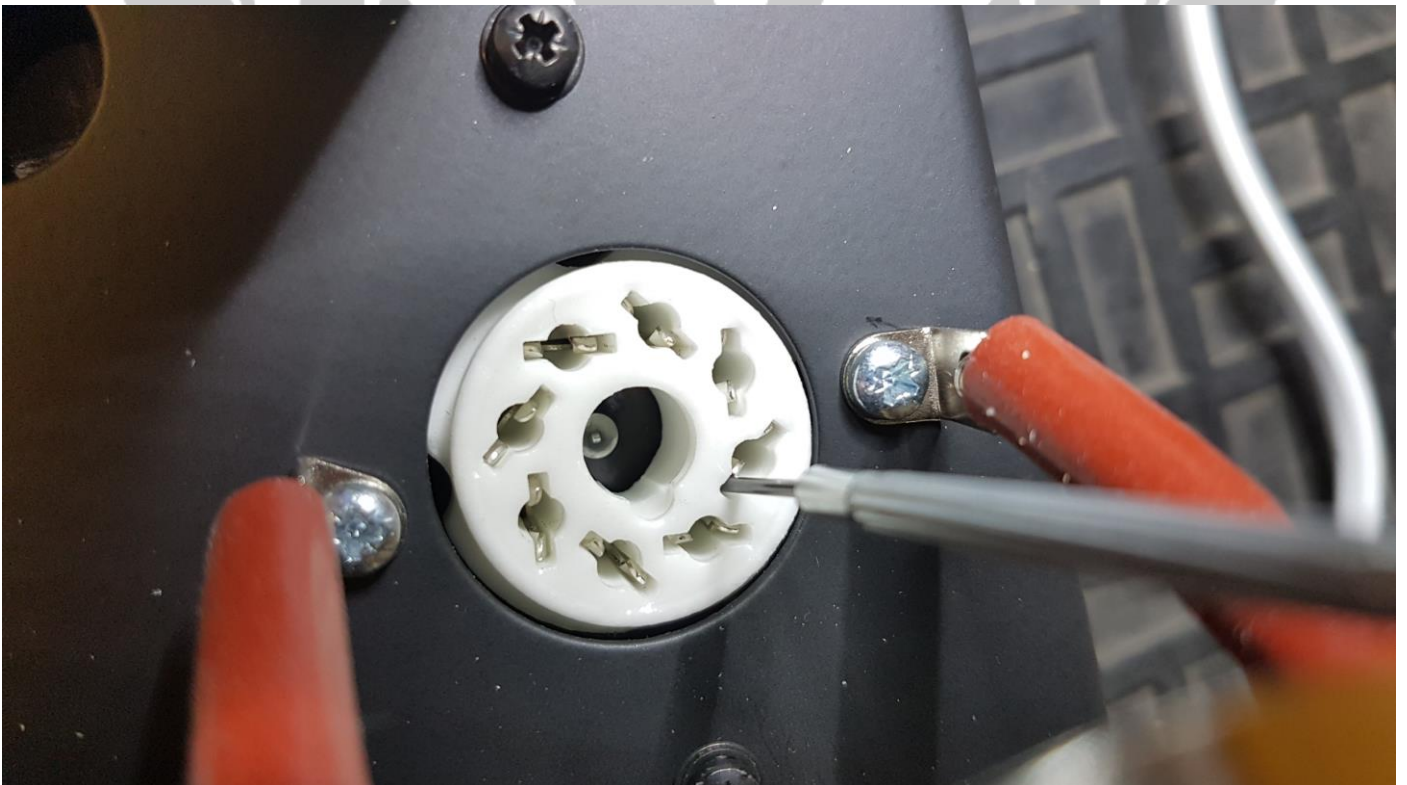
Please ensure that the valves go back into the same sockets as they are optimized at the factory for best position relating to gain, noise, & microphony. This is easily achieved if you just do one at a time; take it out, re-tension then re-insert and go to the next one. You will see that the valve bases have small 2-part metal clips in each hole and these need to be pushed together to make a tight connection on the valve pins.

VICTORY

Pre-amp valves:



Poweramp Valves:



Please make sure you don't close these pins up fully or it will be difficult to replace the Valves.

Replacement valves and tools for biasing such as a Multimeter and Terminal Screwdrivers are available directly from Victory. Please email your requirements to service@victoryamps.co.uk for a quote. Please include your address so we can get an accurate carriage charge.

A note from Team Victory

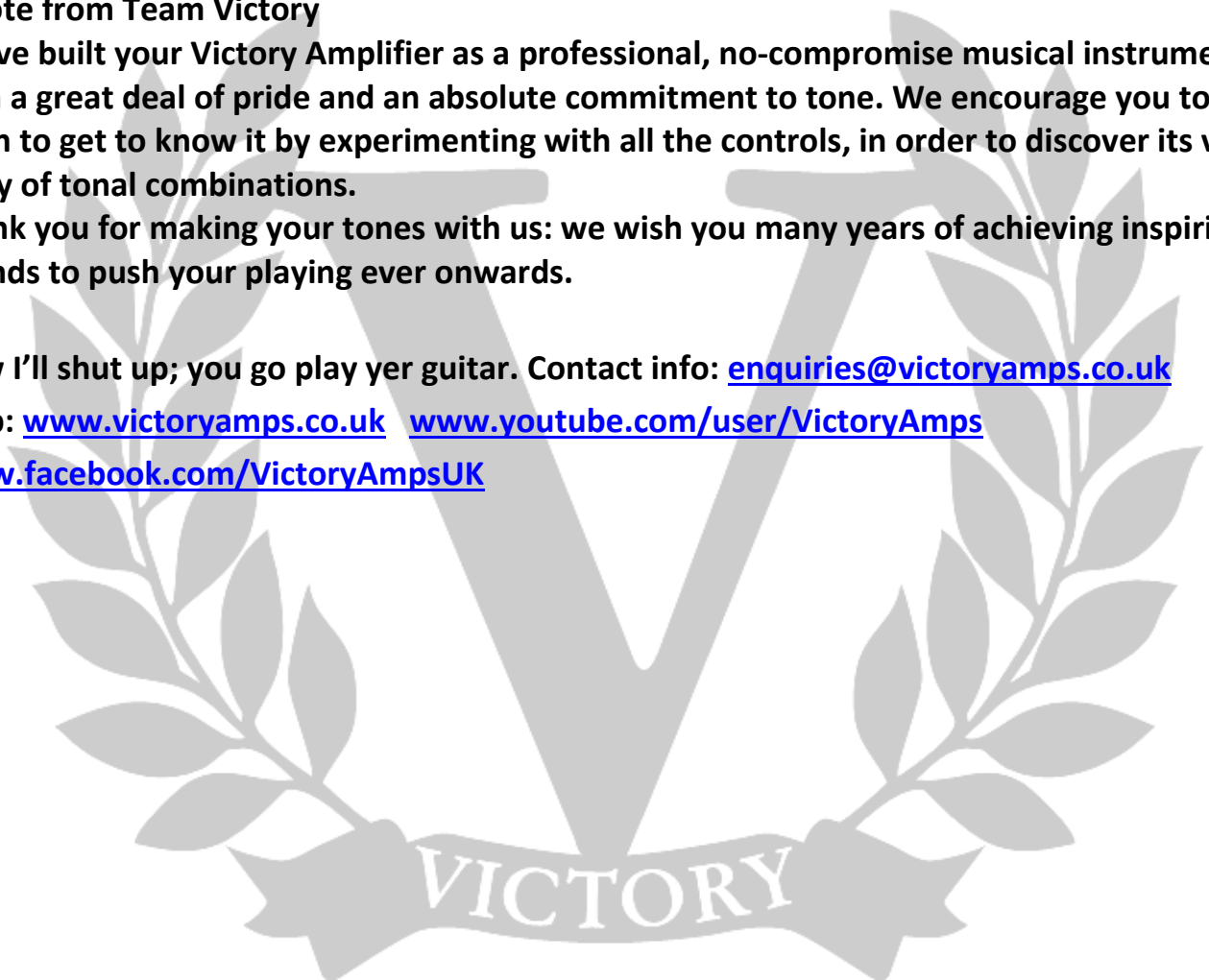
We've built your Victory Amplifier as a professional, no-compromise musical instrument, with a great deal of pride and an absolute commitment to tone. We encourage you to learn to get to know it by experimenting with all the controls, in order to discover its vast array of tonal combinations.

Thank you for making your tones with us: we wish you many years of achieving inspiring sounds to push your playing ever onwards.

Now I'll shut up; you go play yer guitar. Contact info: enquiries@victoryamps.co.uk

Web: www.victoryamps.co.uk www.youtube.com/user/VictoryAmps

www.facebook.com/VictoryAmpsUK



Handmade in England

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