



VICTORY V100

All Valve 100 Watt Guitar Head



User Guide

Thank you, and congratulations on acquiring a Victory Amplification V100. 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 V100 comes with the following:

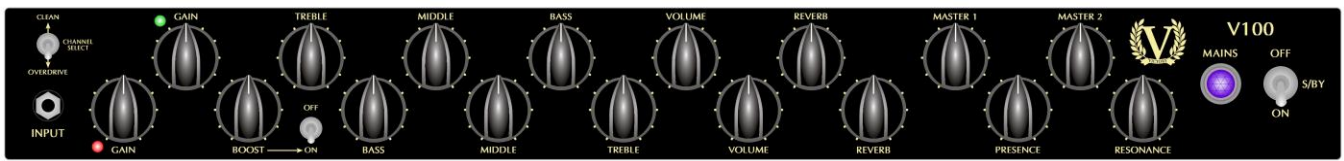
3 x Latching Footswitches for Channel 1/2 & Boost, Master Volume & Reverb, FX Loop 1 & FX Loop 2

A mains lead for your country

A heavy duty dust cover

This User Guide

FRONT PANEL



Input

Plug your guitar in here!

Channel switch

The V100 has two channels that you can switch between using this front-panel toggle, or a remote footswitch plugged into the Channel/Boost footswitch socket.

Clean channel

The clean channel is indicated by a green LED channel indicator next to the gain control.

Clean Gain

This adjusts the input sensitivity. Use low settings for maximum clean headroom and higher settings when you want to introduce more natural valve overdrive to your tone.

Balancing your input gain level with your master volume level is crucial in delivering the tone and feel that works best for you.

Clean Treble

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

Clean Middle

Controls the midrange frequencies in your sound in the clean channel. 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.

Clean Bass

Controls the low frequency content of your sound in the clean channel. 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!

Clean Volume

Each channel has its own volume control, as well as the extra dual master volumes. Use this one to balance the volume level of the clean channel to taste when switching between channels and modes.

Clean Reverb

The V100 features independent reverb controls for each channel. Adjust to taste for the clean channel. The reverb is also footswitchable on/off.

Overdrive channel

The overdrive channel is indicated by a red LED channel indicator next to the gain control.

Overdrive Gain

Exactly the same as the clean channel, this controls the input gain... except here there's a whole load more of it! Run it lower for crunchy sounds, in the mid-range for thicker overdrive, and crank it up for the fullest distortion.

Boost

The overdrive in the V100 also has a switchable gain boost, which is accessible via the footswitch or front panel toggle switch. It enables you to go from crunchy rhythm guitar to sustaining lead guitar tones.

Overdrive Bass

Controls the low frequency content of your sound in the overdrive channel. It's well worth experimenting with getting your preferred settings of bass and resonance together: they both affect low-end response in different ways.

Overdrive Middle

Controls the midrange frequencies in your sound in the overdrive channel. Mid frequencies are a crucial, defining factor with overdriven tones so spend some time getting to understand how this control interacts with the bass and treble pots for your optimum EQ balance.

Overdrive Treble

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

Overdrive Volume

Each channel has its own volume control, as well as the extra dual master volumes. Use this one to balance the volume level of the overdrive channel to taste when switching between channels and modes.

Overdrive Reverb

The V100 features independent reverb controls for each channel. Adjust to taste for the overdrive channel. The reverb is also footswitchable on/off.

Master control section – these 4 controls are not channel dependent.

Master 1 & 2

The V100 comes equipped with two separate master volume controls, enabling you to set two overall master volume settings. We'd suggest using master 2 set slightly higher than master 1, in order to give you a volume boost for solo guitar playing, helping cut through the rest of the band.

Dual masters are also useful if you don't like using the volume control on your guitar, and simply want the same set of sounds, only slightly quieter (or louder!).

Presence

This controls a different part of the high frequency response of your amplifier than the treble control. You might like to see it as a 'master high end' control that helps you tame, or perhaps enliven your tone depending on your environment, without having to change your EQ. It has a distinct effect on how your guitar feels, so play, listen and set to taste.

Resonance

In loose terms, resonance is to bass what presence is to treble: it is a low-frequency shaper that gives you a looser bottom end with the control set high; or somewhat tighter and faster with it set low. Very much a matter of preference, you might like to dial it in according to the environment in which you're playing.

OFF-S/BY-ON Switch

The V100 should always be switched from OFF to the centre position, Standby, (S/BY) first. The 'STANDBY' mode turns 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 ON. To extend valve life, the amplifier can be switched to 'Standby' when not being played.

REAR PANEL



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 higher value to provide adequate safety protection. Generally, the fuse value will double if the mains voltage is halved, (i.e. if it's a 2A fuse in the UK @ 230V, it will need to be a 4A 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 enquiries@victoryamps.co.uk.

Mains inlet, (IEC Socket)

Please only use the correct mains cord for your territory!

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 T1A 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 V100 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 30 watts and enabling the output stage to be pushed into overdrive much more easily.

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.

The output transformer in the V100 has 3 separate secondary windings; a 4 Ohm, an 8 Ohm and a 16 Ohm. This makes it easy to connect many different combinations of speakers. There are five speaker output jacks: 2 x 4 ohms, (wired in parallel), 2 x 8 ohms, (wired in parallel) and 1 x 16 ohms.

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.

OUTPUT VALVE FUSES and LED's

The two panel mounted fuse holders protect each pair of output valves as labelled.

If an output valve starts to draw too much current, indicating it could be about to self-destruct, the corresponding fuse will sense this and blow, turning off both valves in the pair and lighting the LED above.

This will result in a reduction of output power but will mean the amplifier continues to function during a performance despite a possible valve failure. In many cases on most amplifiers a valve failure would result in the valve drawing so much current that the *mains* fuse blows, effectively ending a performance. On the V100 however, due to the discrete way in which an output valve fuse would blow, it may go completely unnoticed to the performer, until the LED on the rear panel is noticed as being on.

What to do if an LED is discovered as being lit:-

When convenient turn off the unit.

We then recommend replacing the relevant fuse (T500mA) and then trying the amplifier as it is. Occasionally a particularly hard transient note may cause a valve to draw a lot of current and blow the fuse without it actually having a terminal problem, so it would continue to be OK once the fuse has been replaced.

However, if the fuse continues to blow, then the pair of valves will also need to be replaced.

Effects Loop 1 & 2

The V100 comes with two effects loops, which can be switched independently or 'auto assigned' so that effects loop 1 works with the clean channel and loop 2 works with the overdrive channel. That means you could have entirely different effects chains for each channel.

If the 'Auto Assign' switch on the rear is in the 'ON' position, even without a footswitch, the FX LOOPS will switch over when the Channel is switched. With Auto Assign 'ON', LOOP 1 is for Channel 1 and LOOP 2 is for Channel 2.

This is so you can have a different bank of effects for each channel.

However, if Auto Assign is switched 'OFF' then use the dual footswitch provided to change from FX loop 1 to FX loop 2. Please note, in the Auto Assign OFF mode, one of the FX loops will always be on & all the footswitch is able to do is toggle between Loop 1 & 2. To create a situation where you can turn off the FX loop, we suggest only using FX in loop 1 & leaving FX loop 2 empty. This way, by toggling between FX loop 1 & 2 you essentially are switching FX loop 1 on & off.

External switching jacks, (Footswitch sockets)

Effect Loop 1/2: Connect a 2 way latching footswitch here to select Loops 1 and 2

Channel / Boost: Connect 2 way latching footswitch here to change Channels and engage/disengage the overdrive channel Boost function.

Master Volume / Reverb: Connect a 2 way latching footswitch here to select between Master 1 and Master 2, and also turn the Reverb on and off.

Biasing:

Whenever any output valves are changed, the amplifier will need to be re-biased. This must be done by a qualified or competent person as there are lethal voltages inside the V100 and getting killed by a guitar amplifier is a rubbish way to die.

Also take care as valves may still be very hot from use.

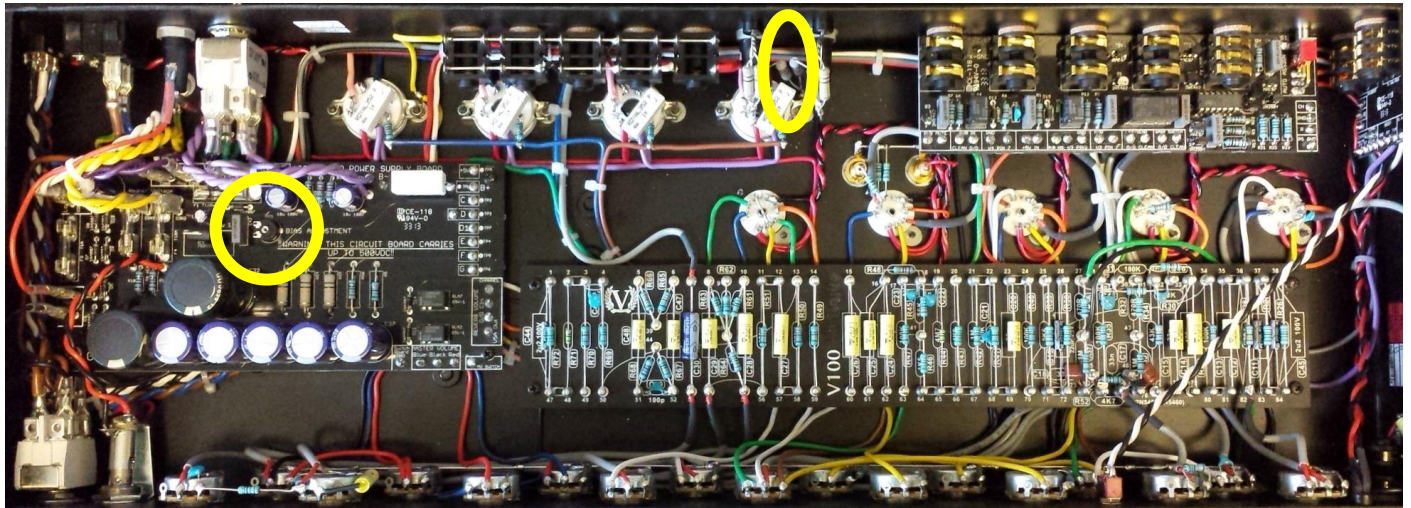
Please always try to buy matched sets of output valves as they will be easier to Bias and give longer service. If you can't get a matched set of 4, then buy 2 matched pairs. Ensure the toggle switch on the top of the chassis is in the correct position for the selected output valves, (either 6L6s or EL34s)

Unplug the V100 from the mains; remove the rear grill and the 4 retaining bolts on the underside.

Carefully slide the chassis from the wooden sleeve and place it on a clear and secure surface upside down so all its soft bits are exposed.

The BIAS pre-set is found on the power supply PCB, (left hand yellow circle on photo). The best place to take a Bias voltage measurement is across each one of the two 1 Ohm resistors that are fixed between the chassis and the valve failure fuse holders (see yellow oval on photo).

Using a multimeter set on the 200mV range, measure across each of these resistors in turn and adjust the BIAS preset so the meter reads between 64 and 80mV. This translates into 64-80mA of current per pair of output valves as each resistor is connected to a pair. So each valve is biased at between 32 & 40mA. Check both resistors a few times and try to balance the Bias voltage so it is as close as possible between the 2 pairs. We don't recommend a difference of greater than 6mV between the 2 pairs.



Amplifier Dimensions:

SIZE (mm): 660(w) x 260(h) x 260(d) Unboxed 760(w) x 360(h) x 360(d) Boxed

Weight: 25,7Kgs Unboxed 27.7Kgs Boxed

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.

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.

Team Victory

Contact info: enquiries@victoryamps.co.uk

Web: www.victoryamps.co.uk

www.youtube.com/user/VictoryAmps

www.facebook.com/VictoryAmpsUK