

Valhalla

V1 series Users Manual

Important!

1. The Valhalla is designed to push cartridges, not to run empty. Do not leave the machine running without a cartridge installed except for quick cartridge changes. Over time this will produce a very distinct form of damage which is not covered under warranty.
2. Do not allow cleaning fluids to enter the machine either by spraying or by wiping with an excessively wet wipe. The four points of entry are the two o-ring grooves on either side of the stroke adjustment ring, the RCA connector and the plunger bar hole in the end of the machine.
3. When cleaning the Clean Cap cavity you must be certain that you do not use too much disinfectant on the swab. Before you clean the cavity you should wet the swab, then dab it on a piece of paper towel to soak up the excess so that it is only damp, not wet.
4. Do not clean the machine while it's running.
5. Never lubricate the machine. Damages due to lubrication are not covered by warranty. The only thing you may want to do (your preference) is dab a little oil/grease/ointment on the O-ring that provides spin resistance for the grip, but this also is not necessary.
6. Never operate without the protective O-rings found to either side of the stroke adjustment ring. They serve to stabilize and dampen unnecessary movement and most importantly, they keep the inside of your machine clean.

Voltage

Under most circumstances you will never need to go lower than 6 volts or higher than 11 volts. Its best for the machine to stay within this range.

Lower voltage = Softer hit AND fewer punctures per second
Higher voltage = Harder hit AND more punctures per second

Stroke Adjustment

The Valhalla has 5 strokes to choose from: 2.5mm, 2.9mm, 3.4mm, 3.8mm and 4.2mm. Simply twist the ring to select.

Shorter stroke = Softer hit
Longer stroke = Harder hit

Putting it all Together

If you like your speed but need more hit, switch to a longer stroke.

If you like your speed but need to hit softer, switch to a shorter stroke.

If you want to move faster but don't want your machine to hit too hard when you increase voltage, switch to a shorter stroke and increase voltage

If you want to move slower but don't want your machine to hit too soft when you decrease voltage, switch to a longer stroke and decrease voltage

Cartridges

- The Valhalla accepts any standard tattoo cartridge but should be used with cartridges that have protective membranes to limit or eliminate back-flow. If you use cartridges without membranes you need to properly use Clean Caps in order to protect the inside of the machine. Warranty does not cover, in any case, damages due to ink inside the machine.
- Membrane/spring pressure on cartridges can vary from brand to brand. Stiffer membranes may require slightly more voltage than softer membranes, from +0.5v to +1.0v.
- While changing cartridges you can leave the machine running, just try to be quick about it. Leaving the machine running for long periods of time without the load from the cartridge will decrease the life of the motor.

Disposables

- Disposable grips: Come in packages of 10. Available in all Valhalla sizes
- Clean Caps: Come in packages of 20. Clean caps have 2 seals in order to function properly: The plunger bar seal and the body seal. The body seal doubles as a locking ring. Insert the clean cap with the small seal facing the plunger bar. When it is time to remove the clean cap you may be able to do so with your fingers, or you can use the tip of a cartridge, a toothpick, a pen or anything else that will allow you to pick the body seal out.

Bagging

- The most common way to put a barrier around the Valhalla is to tape a single clip cord sleeve to the grip. Leave the stroke adjustment ring visible so that you can adjust stroke while the machine is bagged without having to break down your setup.
- Adding the barrier makes it a little more difficult to adjust the stroke but you should have no difficulty adjusting the stroke while bagged if you use a ratcheting action whereby one hand keeps a constant grip as the other hand clamps>turns 1 click>releases>returns to its original position>repeats.

axysrotary.com
support@axysrotary.com
855-955-2997

Thank you for your support, enjoy your craft.