

G8 CUTBACK TATTOO MACHINE

The Swashdrive **G8 CUTBACK** Tattoo Machine is another Fresh & Original Swashdrive Innovation. We at Swashdrive Developments have been pioneering and refining different technologies in Tattoo machines forward since 1993. The Gen 8 machine is a further refinement of our well-known swash-plate Tattoo machines and we thank you for purchasing original Tattoo machinery.

DO NOT OPERATE this Machine with PWM Power supplies

USE ONLY LINIER type Power Supplies on this machine (VOLTAGE REGULATED)

CONTENTS

- 1 G8 Swashdrive Tattoo Machine
- 2 Bottle of metal speed oil (For Swash-plate Bearing ONLY)
- 3 Allen keys
- 4 Spare Needle-bar tension O-rings
- 5 Spare Give adjuster
- 6 Spare Pivot bearing guides (Guides may be restored by rotating the guide 180 deg, re-insert into the frame).
- 7 Brass anvil weights (Incl and for use with GIVE Tattoo machine only)
- 8 Clip cord / RCA Adaptor (For the use of Clip-cord connection to this G8 Tattoo machine)

NOTE BRASS Anvil weights cannot be used with the solid machine and therefore are not supplied in the box with the Solid G8 Version.

G8 GIVE & making Adjustments The stroke of the G8 GIVE anvil is able to stroke more than Swash-plate stroke (FOLLOW THROUGH) depending on needle bar weight and machine RPM (Volts), As volts are increased the anvil will stroke more depending on give setting & needle bar weight.

Adjust give by pushing the opposite side of swash-plate to increase width on give adjust side, then slide adjuster forward for a harder hit or backwards for softer hit. Each adjustment notch has a significant change in its hitting force. We recommend starting in the middle of adjustment. When using brass anvil weights speed should be slowed to 6 – 8 volts depending on needle bar weight (Much slower speeds may be used with the use of brass anvil weights)

Lubrication The speed oil supplied with machine is for the Swash-plate bearing only, do not under any circumstances apply this oil to the electric motor or rear pivot bearing of the swash-plate, it will destroy them. Apply only 1 or 2 drops to the swash-plate bearing every 30 to 50 hrs of use. The method to do this by attaching the needle applicator to the bottle, then carefully inserting the needle into the bearing under the inner seal lip and apply a small squeeze, adding too much of this oil will make the bearing click and by not applying any oil will eventually destroy the bearing. Also grease should be applied to rear pivot bearing on occasion.

Armature up Spring has been added to the G8 machine, in stop mode the needles will stop in the up position.

Needle bar tensioner Comes standard with the G8 machines and so eliminates the use of rubber bands. Component is possible to retro fit on all Swashdrive machines from Gen 4 up and may be purchased as an after market part.

Power supplies We recommend to use Only Quality **dual knob lab** DC power supplies for this machine. Although this machine will run on most single knob supplies, **NOTE** poor quality supplies will drastically reduce life of the electric motor ! PWM controllers are not recommended, (Low inductance motor, SURGING may occur).

Calculation for machine speed

6.0Volts = 3000rpm which is = 50 Hz (50 Cycles Per Second)

9.0Volts = 6000 rpm which is = 100 Hz (100CPS)

12Volts = 9000rpm which is = 150Hz (150 CPS)

Setting power supply

Please do not exceed **12 Volt Max** . 12 volts is equal to 150 Hz (CPS). use of higher speeds are at your own peril. Do not exceed) 0.55 Amps @ 12 volts, this is 100 % duty cycle for the motor, the Gen 8 machine should run at 10 to 25% duty cycle, (0.04 to 0.28Amp).

Tube Chucking System

more than ½ turn of nut tension should be put on the tube clamp, do not use tools to tighten, **hand tighten only !**

RCA to Clip-cord Adaptor Is a fresh new look in the way power may be connect to the G8, If you are setup using CC then its easy to connect with this adaptor. This has allowed us at Swashdrive to design a much more compact machine with alot less junk hanging off the back !

Do not allow the following to occur, it may invalidate warranty

- 1 **Do not use the speed oil or any lube on the electric motor**, this will cause motor failure and **invalidate** Warranty.
- 2 **Do not use sprays directly on machine especially in around swash-plate area, use clean wipes !**
- 3 **Do not** place machine into Autoclave or immerse into an Ultra-sonic.
- 4 **Do not run** machine with **un-tested or PWM power supplies, in may invalidate the warranty.**
- 5 **Do not run** the machine above **12Volts DC.**
- 6 **Do not over tighten the wing nut on the tube clamp,**
test how well it works by just tightening it by taking up the slack then another 1/2 turn **MAXIMUM**
- 7 **Do not disassemble machine, if a repair is required contact www.swashdrivetattoomachines.com for help or return!**

Warranty The Swashdrive™ G8 Tattoo machine has a **Six month warranty** from date of purchase. To which Swashdrive™ Developments will repair the manufacturing fault of the machine free of charge. However We do not cover return postage costs. Failure to the above do not list may invalidate your warranty. Proof/ Purchase invoice of **date of purchase** must be provided for any warranty claim.

Disclaimer Swashdrive™ Developments **warrantees** the manufacturing quality of the Swashdrive™ G8 Tattoo machine. But under no circumstances is Swashdrive™ Developments in any way liable for any injury, infection or quality of any tattoo of any person the Swashdrive™ G8 machine is used on. That is the sole responsibility & liability of the Artist / Owner of the Swashdrive™ G8 Tattoo machine. **Updated information on the Gen 8 Tattoo machine may be found at www.swashdrivetattoomachines.com**

