

Sidewinder V3R Care Sheet

Please watch the V3R tuning video on the Workhorse Irons site. It explains a lot.

DO NOT USE OIL ON THE BEARINGS! The bearings are grease lubricated, and the oil will have adverse reaction with them.

KEEP STERILANTS AWAY FROM ALL MOVING PARTS!! Sterilants are very corrosive, and will deteriorate the electrical contacts as well as the bearings. Light amount of barbacide/alcohol is fine.

Use a good firm nipple/grommet. I recommend my good black nipples (available through my site and Workhorse Irons).

Bend the needle bar loop back slightly so that it is perpendicular to the armature bar in the "up" position. This will keep the needle from wanting to "kick out" on the retract. (This is the main cause of spitting)

Put a bend at the tips of the needles so that it "licks" the tip of the tube.

Use two-three #12 bands, or one thick band around the vice and motor.

Upon using the machine, you may need to adjust the stroke knob on the rear of the frame. It's the easiest adjustment to get the hit where you want it, for the speed you want to run it at. Turning it in (**clockwise**) will make it hit **harder**. **Counterclockwise** will shorten the stroke, and make it hit **softer**.

There are numbers on the stroke knob. #1 is the shortest and softest. #9 is the longest and hardest hitting. The "*" setting is the medium between the two. In most cases, that will be the ideal setting.

Stroke should be between 3 to 3.5mm. Average volts is between 5.5 and 6.5.

After a while, the impact screw on the a-bar will wear into the frame, and will need to be turned in. This is a fine tuning adjustment, and 1/8 turn will do a world of difference. In most cases, the armature bar should sit parallel to the frame when in the down position.

There are timing marks on the cam and frame. Push the a-bar down and roll the cam clockwise till it touches the flat spring. Turning the impact screw clockwise will raise the a-bar, and move the line on the cam up.

If the machine seems to have lost some hit/power, it's probably because the impact screw has settled in, and needs to be turned in slightly.

There are notches on the armature bar. These are for putting o-rings on if you want a duller, silent hit, use a 1.5mm (thick) x 4mm ID o-ring.

Direction of the clipcord will affect the hit of the machine.

Clockwise (positive up) will hit punchier, Counterclockwise (positive down) will be a tad more passive.

Email: info@workhorseirons.com for further questions. Thanks!