

Sidewinder V2

Please watch the setup and tuning video on my website: dankubin.com

The machine must be set up and loaded in order to see how it runs. It will run choppy unloaded.

You will need a sturdy nipple when using the machine. I found that the "secure fit" nipples are too weak and fall apart. Eikon makes a good, sturdy standard nipple (named step bushings). Also, the blue secure fit nipples from Goodguy Supply work nice, as they are thicker.

There are 3 points of tuning on the machine, and use a 1.5mm allen key to adjust.

The impact screw is the forward most screw on the top/center of the a-bar. Turning it clockwise will make more of an impact at the bottom of the stroke. Over time, it will need to be turned in to account for metal compression on the frame. For how I tune them, I adjust the impact screw so that when the a-bar is in the down position, The cam/bearing touches the flat spring at the 1:00-2:00 position. There should be a slight, gentle compression between the flat spring and bearing when the a-bar is in the down position.

The spring tension adjustment screw (on the bottom of the frame) is the easiest way to make fine tuning hit adjustments. Turn it in to make it hit softer, out to make it hit harder.

The stroke adjustment screw (on the rear/top of the a-bar) will make major hit adjustments. turning it clockwise will make it hit softer, counterclockwise to hit harder. The stroke will get longer over time, and may need to be adjusted slightly periodically.

Perpendicular to all the adjustment screws, there are locking set screws. Make sure they are turned in snug to keep the adjustment screws from moving.

Typical voltage is 5.5-7 volts.

They tend to run better at higher speeds.

****hit adjustments can also be made simply by adjusting the rubberbands up or down. pulling the band up will make it hit harder, down for softer.**

I tune them with the band perpendicular to the needle.

***Rotation of the motor will make it hit different as well.** Clockwise will hit harder (positive (red side) on the clipcord up). Counterclockwise will be more passive. (positive down on clipcord)

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