



# Smoothness & Stroke Adjustment

Fine tuning your AirShirz for improved performance

## Smoothness Adjustment

The inner workings of the control valve are set precisely to respond quickly to the commands from the finger loop. They may need to be re-adjusted after a long period of use, or after removing the rear fitting assembly.

(Image 1) While operating the finger loop full travel open and close, use a 5/16" open-end wrench to rotate the rear fitting counter-clockwise, until operation feels rough. Then slowly rotate the fitting clockwise while operating the finger loop until operation just becomes smooth. Rotate the rear fitting an additional 1/8 turn clockwise and tighten locknut.

## Stroke Adjustment

The relationship between the blades and the finger loop position can be adjusted so the point where the blades just close fully. Special blades can be custom adjusted, usually where the finger loop is just about closed.

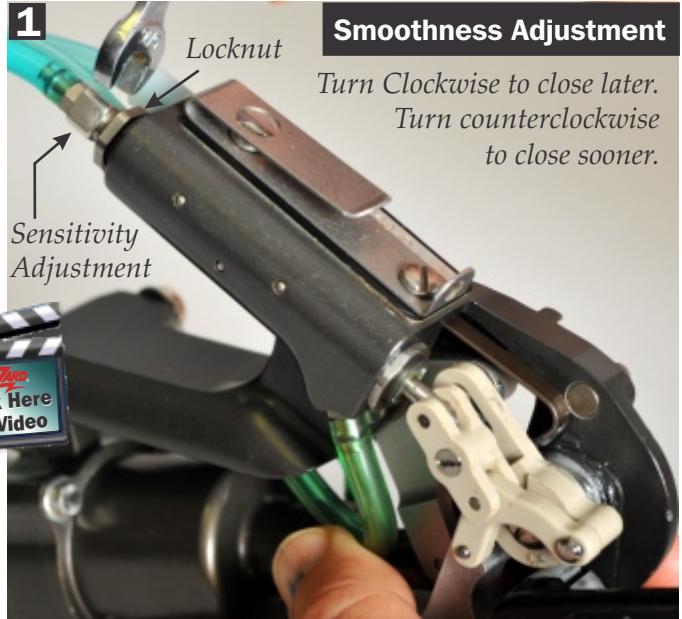
Open the cover and using a 9/16" open-end wrench, loosen the control valve lock number about three turns. Note: For the AirShirz Magnum, the cover should be removed.

Connect the air line and disengage the blade latch.

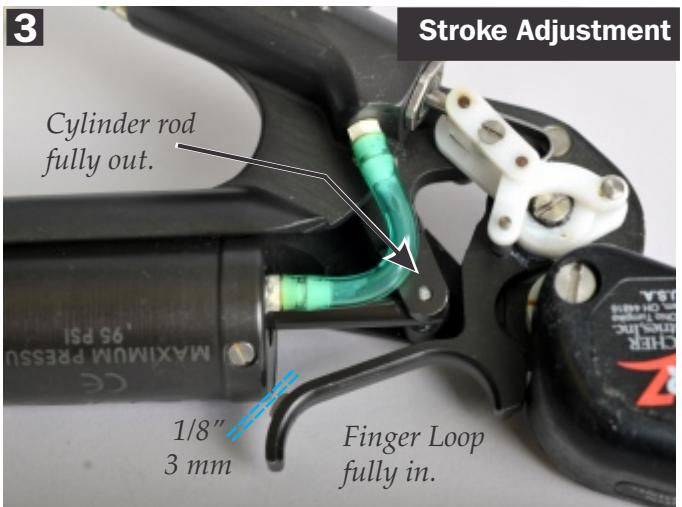
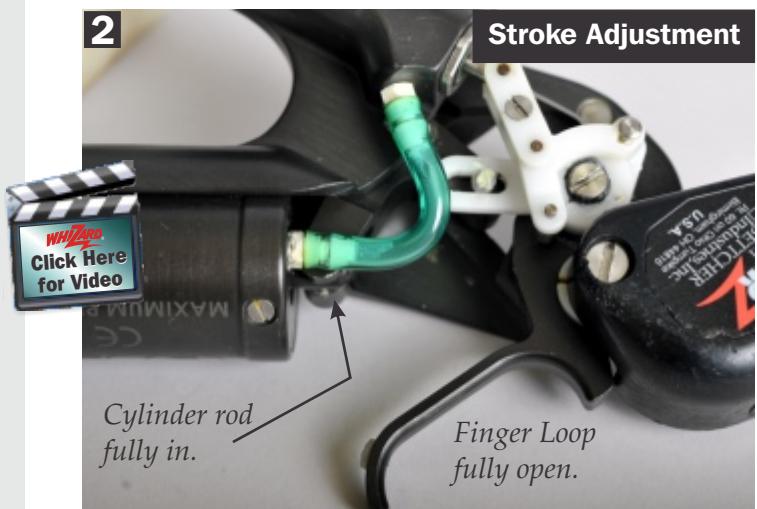
(Image 2) Observe the power cylinder rod position while working the finger loop fully in and out. The rod should reach the end of its stroke, both ways, before the finger loop reaches the limits of its stroke.

Use a 1/2" open-end wrench to rotate the control valve assembly at the rear of the frame. Clockwise rotation causes the rod to move outward (blades close sooner). Counter clockwise rotation causes the rod to move further into the power cylinder (blades close later).

(Image 3) There should be about an 1/8" (3 mm) gap between the finger loop and the power cylinder when the rod just becomes fully extended. When the desired setting is obtained, close the blades and engage the latch ring. Disconnect the air line.



**Smoothness Adjustment**  
Turn Clockwise to close later.  
Turn counterclockwise  
to close sooner.



**Stroke Adjustment**