

Restraining a VSB Automatic Door Opener.

This set of instructions is for those who wish to carry out routine maintenance on their VSB Automatic Door Opener and for those who are experiencing issues due to the cord winding the wrong way, or replacing a cord that has snapped.

Like any item that routinely passes over another surface the cord suffers wear and tear over time. Although braided and wax coated to strengthen the cord, its lifetime can vary on how it is installed.

After long periods of rubbing over various surfaces the cord can become worn and this can lead to the cord breaking. Whilst the door opener itself has a four year warranty this does not cover the cord, so being able to repair/replace is a useful skill to have.

When do you need to restring a VSB door opener?

There are very few reasons that you would ever need to restring the door opener, they are listed below;

- The Cord has snapped
- The Cord is worn
- The cord is wound the wrong way

There are a number of reasons that the cord may snap

- Due to it being old and worn
- Excessive wear
- Incorrect original installation of door opener

Whilst the cord can be forgiven for snapping after many years of loyal service one should ensure that the [instructions](#) are followed when originally fitting the unit and that if the cord needs to change direction, pulleys are used rather than screw in hooks or the like, which can cause increased wear on the cord.

The cord can be wound the wrong way for a number of reasons;

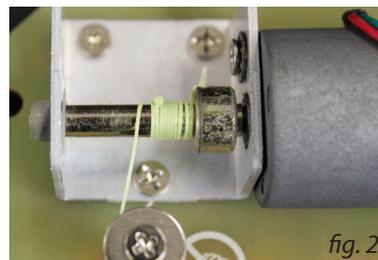
- Incorrect restringing
- Fluffy plug in the white armature (instructions for this problem can be found [online](#))
- Faulty tension sensor

How do you know if the cord is wound the wrong way?

Ordinarily the cord on the VSB comes off the rear of the spindle and should look like fig 1. If the cord is wound the incorrect way as shown in fig 2 the unit will jam and will cease to operate correctly.



correctly wound cord



Incorrectly wound cord

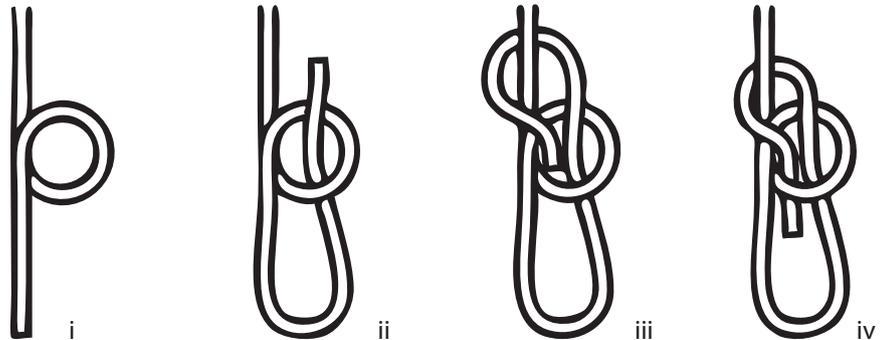
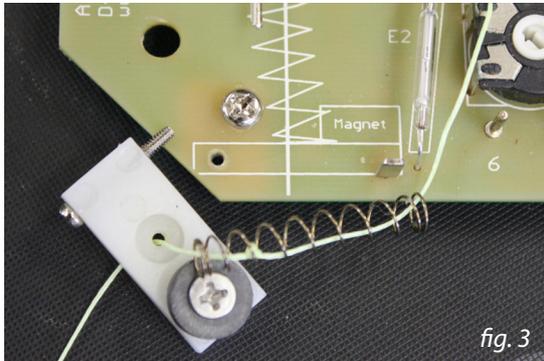
If you carry out the following instructions and the cord continues to wind the wrong way it is likely that this is an issue with the tension sensor. This would be covered by the manufacturer's warranty if still within the warranty period. For warranty queries email service@axt-electronic.de

Before you start

It is advised that the door is untied from the door opener and then any repairs are carried out on a flat surface as this makes it much easier to see what you are doing and reduces the likelihood of part getting lost.

Fixing incorrectly wound cord

If the door is in the up position and the cord is wound the wrong way, you will need to unscrew the white armature as per fig 3 in order to get the cord to wind back out again. If your cord has no bead or knot at the bottom of the cord you will need to tie a three inch lasso type loop at the bottom of the cord. This can be done by tying a bowline knot as shown below, making sure it cannot pass through the white armature.



Handy Tip: Put a small blob of super glue on the knot to strengthen it.

Once the cord has some slack, remove one battery and re-attach the white armature. Making sure to not over tighten the screw. Replace the battery and continue to pull the cord out until it starts winding back into the door opener the correct way. Your VSB should now look like fig 1 and work normally with your knot/bead sitting underneath the white armature as shown in fig 4. Refer to the [instruction manual](#) for carrying out the functional text.

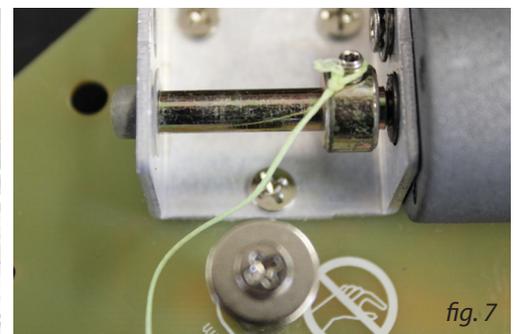
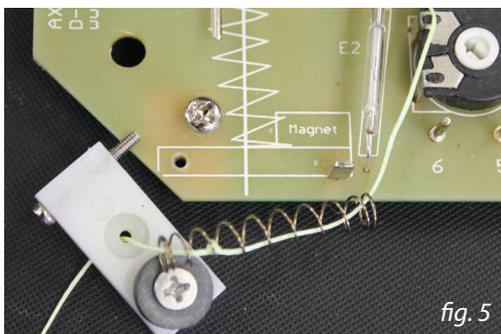


The cord is highly worn or has snapped

Replacement cord can be purchased from our website alternatively if you have access to 0.5mm braided fishing line with a 20-30lb breaking strain this should be fine.

Thread the new cord through the white armature from the underside and then up through the spring as shown in fig 5. Then mirroring the path of the cord painted onto the circuit board pass the cord through the left hand edge of the tension sensor fig 6 (on older models the sensor will look like a brown strip of circuit board whereas more recent models will have something that resembles a safety pin) and then to the left of the post standing out from the circuit board. Finally tie the cord onto the grub screw on the motor spindle fig 7.

At the opposite end tie a loop and described previously.



Reconnect the batteries and the motor should start to wind the cord onto the spindle. Keep a light tension on the cord with your finger to guide the cord helping it to wind neatly. This will help prevent any snags occurring in the future. Once the cord is nearly wound all the way up the knot should hit the little white armature and lift it, this will cause the motor to stop. You should now be able to reattach the door opener to the hen house and tie the door to the cord as described in the instruction manual. Test using the aforementioned functional test.