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## Frequently Asked Questions

### Changing the Optic Sensor on the NOVA Voyager drill press

Date Raised: 8 March 2017

Safe practices should always be employed to ensure the Health and Safety of yourself, employees and customers (if applicable) Refer to product manuals, exploded drawings and our website if further assistance is required, or contact us on [service@teknatool.com](mailto:service@teknatool.com)

Date Amended

To change/ replace the Optical sensors on the NOVA Voyager Drill press.

**Tools Required:**

1 x Philips Screwdriver

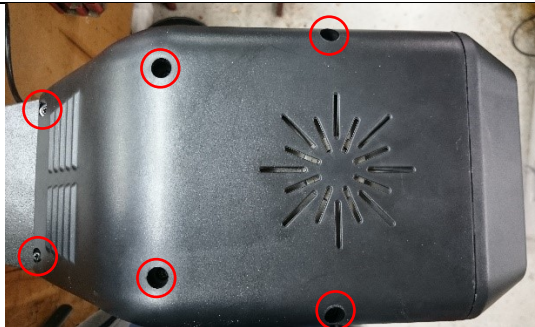
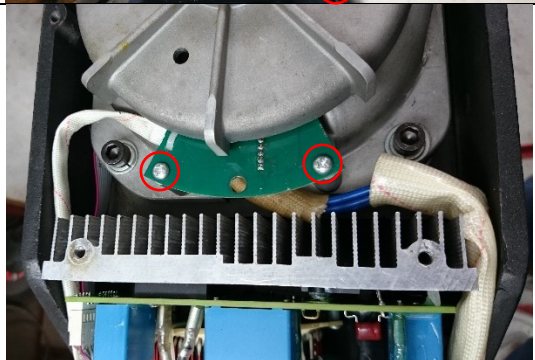
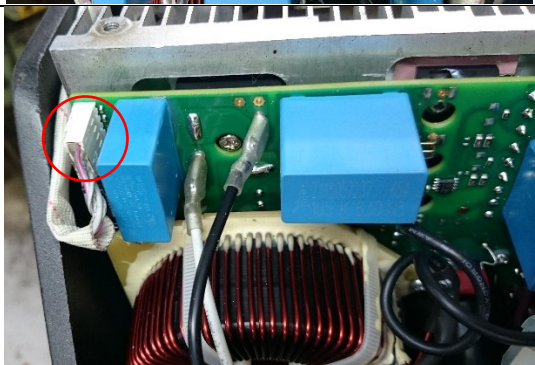
1 x 4mm Allen Wrench

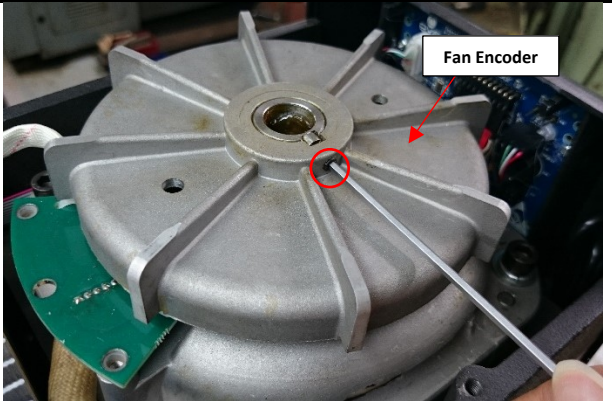


1 x 2.5mm Allen Wrench

1 x Crowbar

1 x Mallet

**Procedure:**

Step No.	Description	Images
1.	Remove the top cover of the drill press by unscrewing the 6 Philips Screws.  <b>Note:</b> The top cover may be difficult to take off without loosening the hex bolts on the front panel with the 4mm Allen wrench.	
2.	Unscrew the 2 Philips Screws shown in the image which holds the Optical sensors down.	
3.	Remove the white cable on the control board by hand. This is the cable that connects the optical sensor to the control board.	

<p><b>4.</b></p>	<p>Remove the grub screw with the 2.5mm Allen Wrench which locks the fan encoder and its keys into place.</p>	
<p><b>5.</b></p>	<p>Take the fan encoder off from the shaft.</p> <p><b>Note:</b> This step may be hard to do by hand therefore use a crowbar with thick cloth wrapped around to prevent damage to the parts as shown in the image.</p> <p><b>Tip:</b> To minimize the possibility of deformation, apply force to the ribbed parts as shown.</p> <p>Apply amount of force under each one of the ribs by rotating the fan encoder.</p> <p><b>Do not attempt removing the fan encoder by applying force at one point. Always turn the fan encoder around to apply even force around the outer edge.</b></p>	
<p><b>6.</b></p>	<p>After the fan encoder is taken off, the optical sensor can be removed.</p> <p>The white cable can be removed from the sensor now.</p> <p>Replace sensor with a new one and reattach the white cable and replace the screws.</p>	
<p><b>7.</b></p>	<p>Reassemble every part back together, follow the steps in reverse.</p> <p><b>Note:</b> Ensure that you remember to slide the “Key” for the fan encoder into the grooves of both shaft and the encoder.</p> <p>Slide the fan encoder down all the way until the shaft becomes flush with the top surface. Use a mallet to tap the fan encoder all the way.</p>	