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Frequently Asked Questions

NOVA Voyager – "Accuracy 0% Error"

Date Raised: 8 March 2017 Date Amended	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

The NOVA Voyager gives of this error mainly due to 3 reasons:

1. The calibration step was too inaccurate
2. Cable connecting the control board and the dip sensor may be disconnected
3. Dip sensor may be broken therefore needs replacement

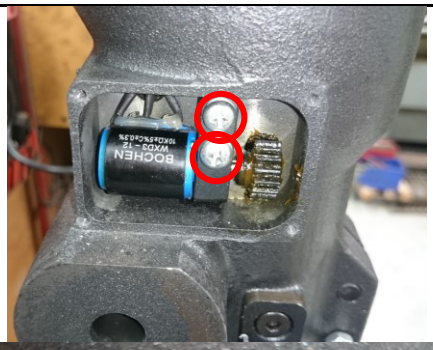
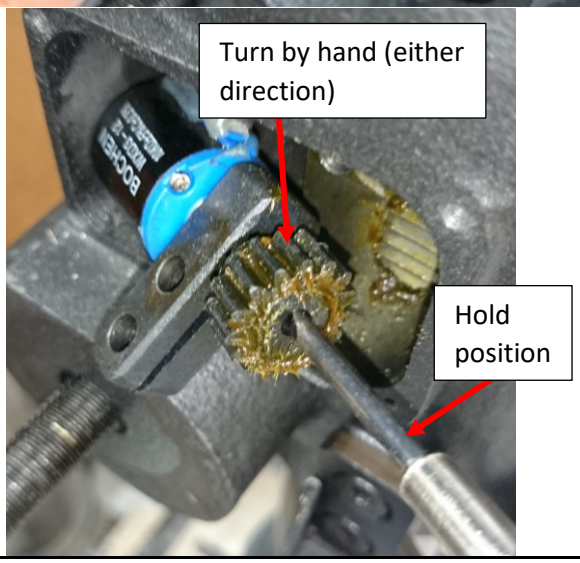
For the **first case** where the calibration procedure is too inaccurate, follow the article:
Calibrating the depth sensor on the NOVA Voyager Drill Press

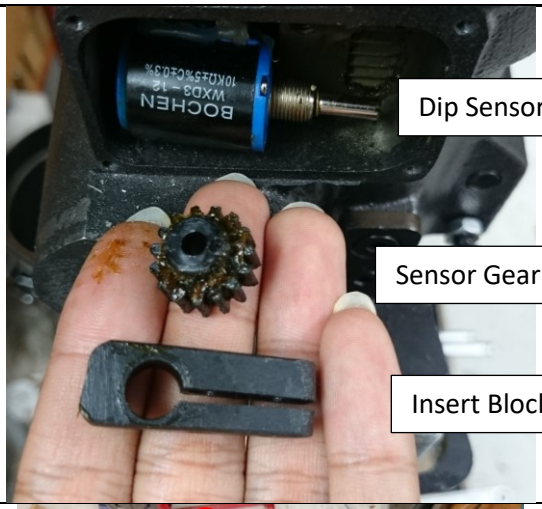
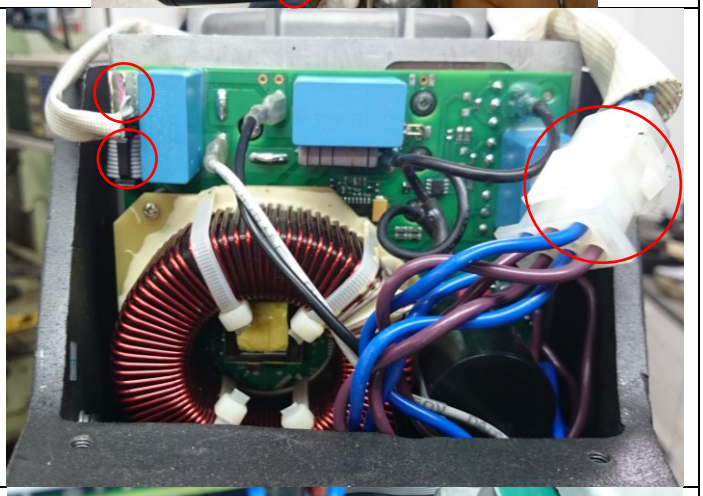
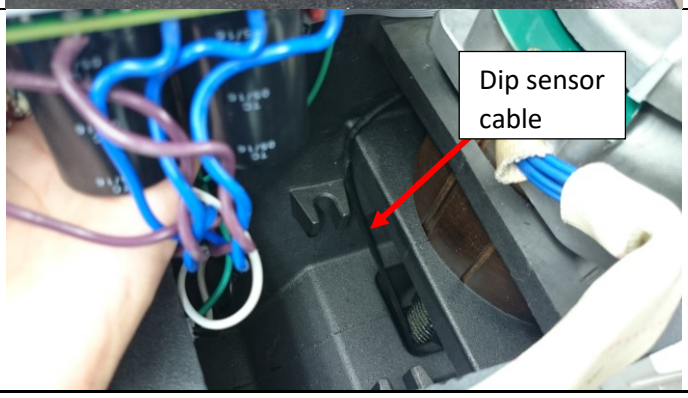
For the **second case**:

Step No.	Description	Image
1.	Take off the front panel of the drill press by unscrewing 4 hex screws using a 4mm Allen wrench.	
2.	Check the connection of the cable circled in the image. This is the cable which connects the dip sensor and control board. If this cable is loose, reconnect the cable and retry the calibration process once again.	

For the **third case** where the dip sensor has to be replaced:

Step No.	Description	Image
1.	Take the spring off from the drill press. To do this safely, please refer to the central section of the article: How to take the quill off on the NOVA Voyager Drill Press	
2.	Unscrew the 4 Philips Screws that is on the silver DVR plate. This will expose the dip sensor.	
3.	Remove the front panel and unplug the connector shown. **Note:** If the cables are put together by cable ties, it has to be cut in order to remove the dip sensor.	 

4.	Unscrew the 2 Philips screws circled in the image. This will free the dip sensor which allows the sensor to be taken out.	 
5.	Remove the gear and the insert block (the black block). Holding the shaft of the sensor with a small flat head screw driver and turn the gear by hand. The gear would come off allowing the insert block to be removed as well.	 

		
6.	Remove the top cover of the drill press by removing 6 Philips screws and to expose the circuitries.	
7.	Detach the cables circled in the image. This allows the main circuit board to be removed from the drill press (Including the heatsink) which allows easier access to the dip sensor cables.	
8.	Lift the circuit board out by hand. Weave the dip sensor cable through the drill press body and the sensor will be removed from the drill press for replacement.	

9.	Weave the new dip sensor cable through the drill press like the image in step 8 and assemble the insert block and sensor gear. **Note:** Insert block has a thick side and thin side. The orientation should be as shown in the image with the thing side facing up. Insert the sensor shaft into the gear until the point where it makes a small clicking sound. **Be careful of the rotation limits on the sensor. Extract the quill completely and turn the sensor shaft anti-clockwise (looking from the same perspective as the image) until it cannot turn. Rotate the sensor shaft in the opposite direction (about 10 degrees) then attach the sensor onto the drill press.** Assemble every part back together (This is the opposite of disassembly)