Teknatool International Limited
7D Dallan Place, Rosedale, Auckland, New Zealand
Tel: +64 09 477 5600 Fax: +64 477 5601

Email: service@teknatool.com
Website: www.teknatool.com

Frequently Asked Questions

NOVA DVR Galaxi 1644 lathe – "RPS 1 Error"

Date Raised: 14 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

Rotation Position Sensor (RPS) error 1 is mainly caused by connection issues with the rotation position sensor. This error may be caused by:

1. Dust building up over time in front of the sensor which obscures the light through to the sensor
2. One of the connection to the rotation positon sensor is loose/ disconnected
3. Fault with the sensor

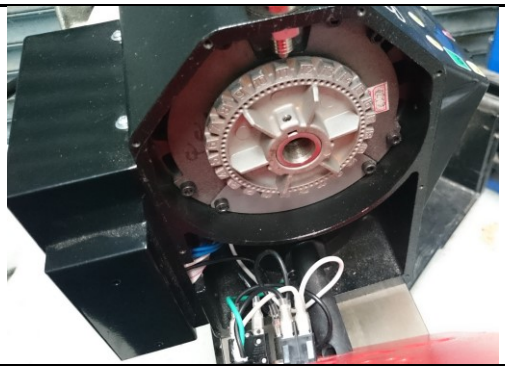
To resolve this issue:
For case 1

Tools Required:

1 x 3mm Allen Wrench
1 x Vacuum Cleaner
1 x Air Blower

Procedure:

Step No.	Description	Image
1.	Rotate the spindle by hand in either clockwise or anti-clockwise direction several times to see if the dust will clear from the sensor. Retry the lathe. If error still remains, move to step 2. **Safety:** **Cover your hands by gloves or thick cloths when turning the spindle by hand to prevent cuts.**	
2.	Open the back cover of the headstock by removing 8 hex screws by using a 3mm Allen Wrench. Suck all dust out with a vacuum cleaner. **Note:** It is better to blow dust out through the gaps before vacuuming i.e. use an air blower before vacuuming. **Safety:** **Wear a mask and some eye protection as the woodchips may rise into the air and cause irritation.**	

		
3.	Close the back cover. Retry the lathe again. If the error still remains, proceed onto the next case.	

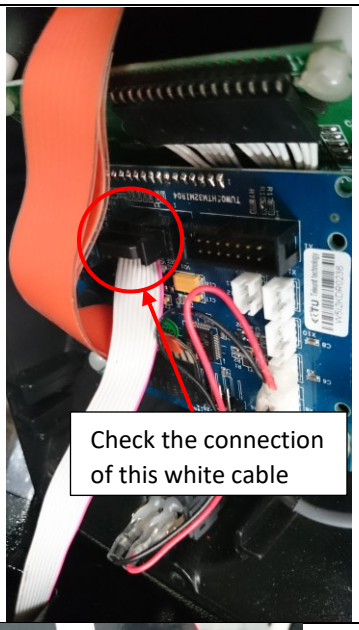
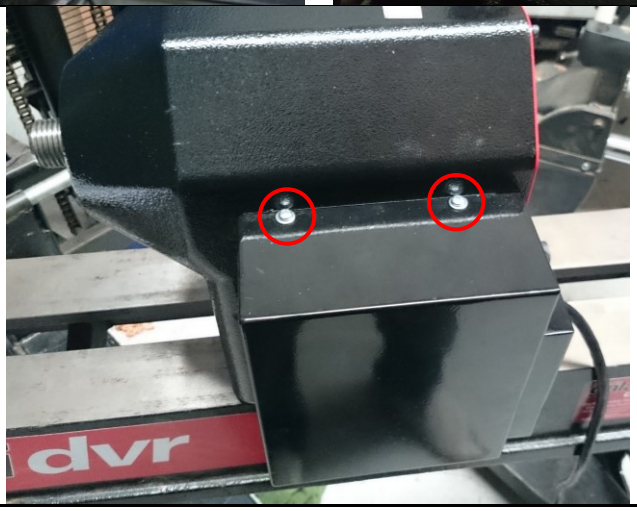
Caution: Make sure that the lathe is disconnected from the power source before commencing these procedures.

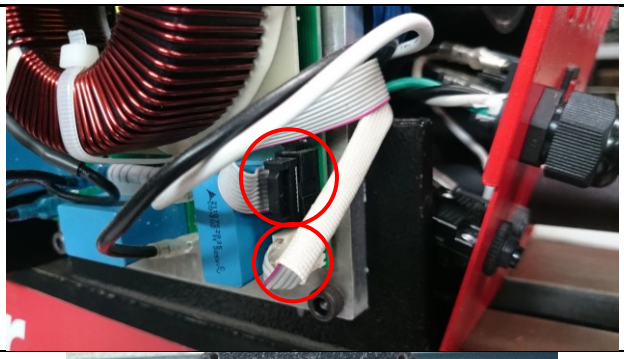
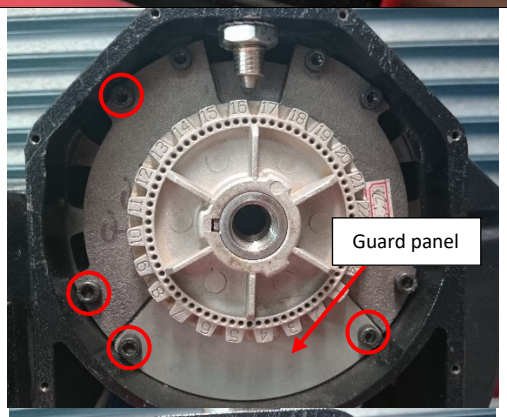
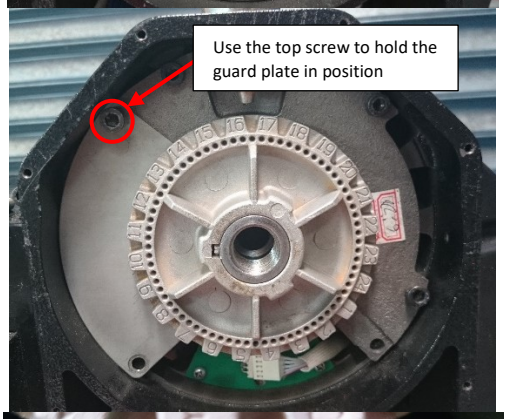
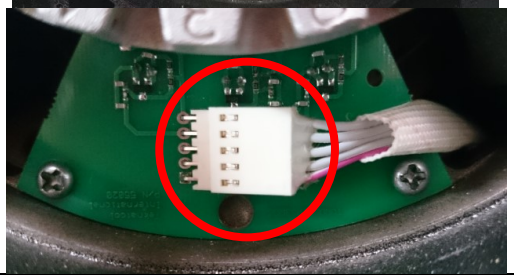
For case 2

Tools Required:

1 x Philips Screw
1 x 5mm Allen Wrench
1 x 3mm Allen Wrench

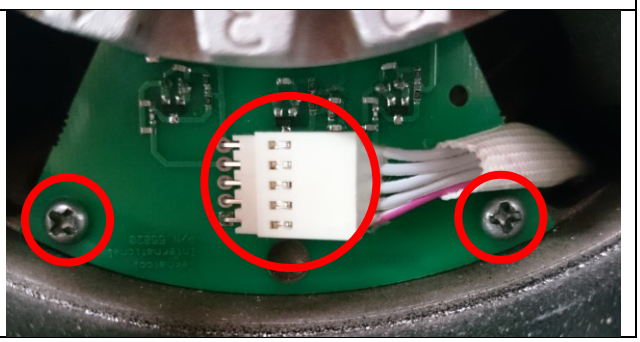
Procedure:

Step No.	Description	Image
1.	Remove 3 Philips screws from the HMI panel to expose the control board. Check the connection of the cable indicated in the image.	 
2.	Remove the Philips screws (2 on top and 2 on bottom) on the black circuit box to expose the electrical circuitries. Check the connection of the wire indicated in the image (Black connector and white connector)	

		
3.	Remove the back cover of the headstock by unscrewing the 8 hex bolts with the 3mm Allen Wrench. Expose the rotation position sensor by unscrewing the indicated hex bolts with the 5mm Allen Wrench. Check the cable connection.	  
4.	After checking every cable connection, assemble everything back together lightly and retry the lathe. If the issue resolves, reassemble everything back together tightly. **Warning: You will have to put the headstock back plate on before testing the lathe as it is a potential safety hazard.** **Note:** Sealing it lightly meaning not screwing the bolts and screws all the way in to allow easy removal later when you would have to progress onto case 3. Tightly sealing it means to fully screwing the bolts and screws in so that it would not fall out during use. If the issue is still existing after going through the above procedures, there is an issue with the rotation position sensor itself.	

Disconnect from the power supply again

For case 3

Step No.	Description	Image
1.	Open the back cover and sensor guard plate again (Step 3 on previous case). Disconnect the cable connecting to the sensor. This cable can be disconnected by hand. Unscrew the Philips screws on the sensor to remove it.	

Please contact our services for replacement sensor