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Frequently Asked Questions

How to fix clicking noise and “Low Voltage” message on DVR XP lathe

Date Raised: 24 January 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

Date Amended

Cause:



This problem is caused by the PFC circuit on the control board having a noise on the feedback loop and lead to PFC shutdown in a very short period therefore DC bus voltage is less than the threshold in the software.
 i.e. Circuit malfunction on the control board

There are two possible ways to fix this problem; first solution being a temporary fix and the second being a permanent fix.

Solution 1: Adjust one parameter setting in software to get the machine running as normal

Note: This is a temporary solution which will allow the lathe to run but will not eliminate the noise.

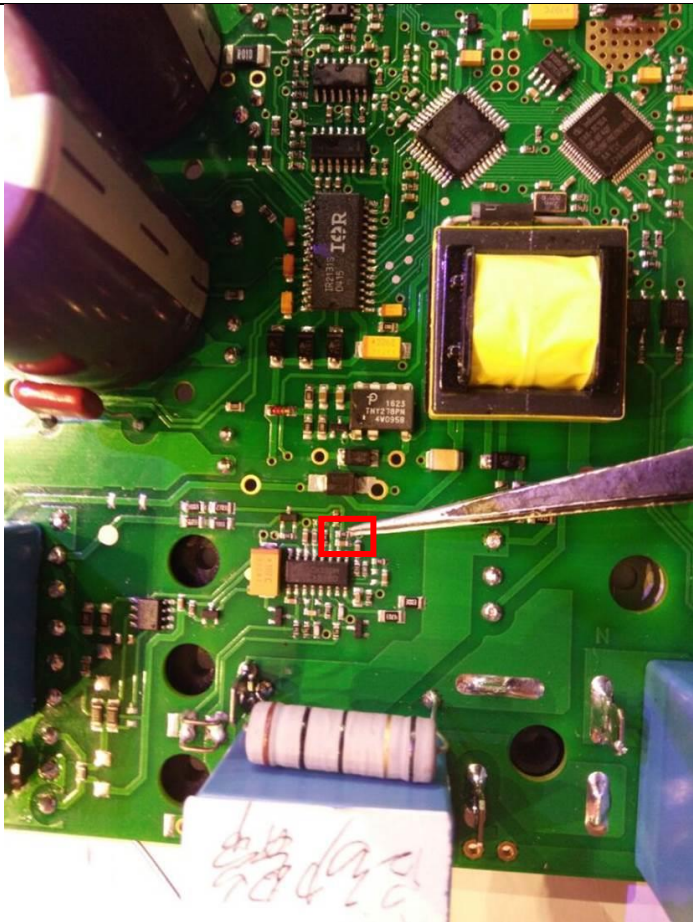
For customers that are in urgent need to run the lathe

Step No.	Description	Image
1.	Enter service mode on the lathe. To get in and navigate through service mode on the lathe follow the FAQ: How to enter Service Mode and Check serial no. & parameter on DVR XP lathe.	NO IMAGE
2.	Navigate through the menu pages on service mode. Locate the parameter “UVTsdStp=345” Note: Make sure that there is a “*” next to the parameter	
3.	Change the parameter value from 345 to 340 or 335 Press <Selector E> then the “*” will change to a “?” allowing the user to save changes made to the parameter value. Change the parameter value by pressing <UP RPM> or <DOWN RPM> Once the parameter value is changed to 340 or 335 press <Program P> to save the change into the software.	

<p>4.</p> <p>Turn off the machine for 1 minute and turn it back on again.</p> <p>There shouldn't be any "Low Voltage" warning flashing on the LCD.</p> <p>Note: The clicking noise will still exist but the performance of the lathe will not be affected.</p>	<p>NO IMAGE</p>
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Solution 2: Remove the control board for it to be repaired by our services or a local electronic technician.

Note: This will completely eliminate the noise on the lathe
 Only customers who are confident with electronics may do it themselves

Step No.	Description	Image
1.	<p>Turn off the machine and remove the control board from the headstock.</p> <p>To remove the control board from the headstock, follow the FAQ: How to Change the DVR Control Board</p>	NO IMAGE
2.	<p>Take the coil off from the control board.</p> <p>Change the resistor indicated in the image from a 11K ohm to a 10K ohm resistor by soldering.</p>	
3.	<p>Replace the coil back on and rewire control board back into the head stock.</p> <p>Note: No software adjustment is required</p>	NO IMAGE

If both solutions do not fix the issue, please contact the services again for further assistance

