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## Frequently Asked Questions

### Vibration Problems with the Nova Comet Lathe.

#### Code: FAQ– NCL104

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Safe practises 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)

There are a number of reasons that a lathe could be suffering from excessive vibration.

This FAQ sheet is broken down into two sections:

1. Problems that you may experience setting up the lathe
2. Problems that you may experience once the lathe is set-up and running

Generally problems that may be experienced with Teknatool lathes are simple problems, which are easy to diagnose, and simple to remedy once you know where to look. It is important to work through any problems systematically so that all possible avenues are quickly eliminated. Much of this information is contained in the trouble-shooting guide at the back of Teknatool Manuals.

**Was the vibration present from the onset of setting up the lathe?**

**Refer to section 2**

**Belt**  
Run the lathe without the belt to check for belt vibrations. If the lathe vibrates without the belt then it is likely another cause.

**Belt**

- Apply a small amount of brake fluid or CRC to the belt grooves.
- Remove belt, twist inside out and clear any imbedded chips from the bees with a screwdriver (being careful not to damage grooves). If applicable.
- If problem persists contact reseller/nearest service centre for a replacement belt.

**Pulleys**

- Check the alignment of the motor and headstock pulleys. Black marks from the belt on the vertical steps can indicate poor alignment.
- Check pulley/s are not loose. The grub screw/s, which locks the pulley onto the shaft, must be tight.
- Check pulley key is correctly positioned in the keyway.

Refer Set-up guide in manual. If problem still persists contact your reseller/nearest service centre for further assistance or replacement parts.

**Movement in Motor Mount**  
Check there is no movement in the motor mount arm. The nyloc nut must be secure. It should be hard to move the motor up and down by hand.

**Guard**  
Check the fastenings which hold the guard on are tight.

**Motor vibration**  
Many motors may produce minor vibrations which can't be altered.

Contact your local reseller or service centre for more information.

**Lathe Stand/bench**

- Lathe incorrectly bolted to the stand.
- Stand construction too light.
- Stand poorly constructed.
- Stand incorrectly standing on floor.

Refer to section 1. Follow this section to eliminate these areas.

If the problems are not remedied at this stage contact your reseller or service centre for more advice.

**Does it only happen when lathe is under load? (i.e. turning/chuck etc on machine)**

**Check work practices**

1. Very large and out of balance work can cause vibration.
2. Check speeds - too fast speeds for the work mounted can cause vibration.

**Check Faceplates and Chucks**

1. Clean the faceplate and chuck to eliminate any dirt build up - they should mate straight against the bearing housing.

Refer Section one and follow through this section.